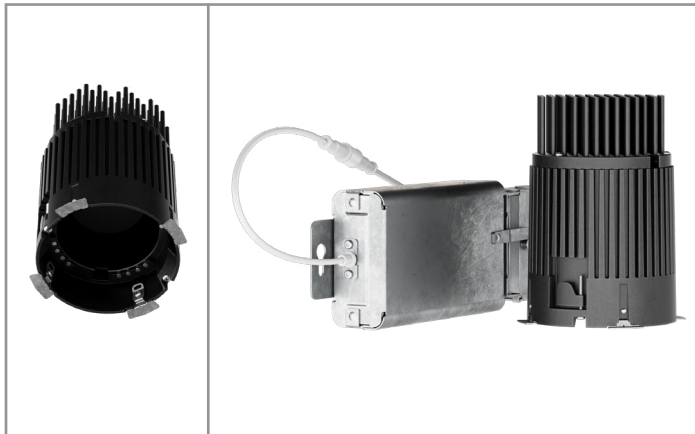


Project		Catalog #		Type	
Prepared by		Notes		Date	



PORTFOLIO

LDRT3D

3" Round Install From Below Downlight

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Residential

Interactive Menu

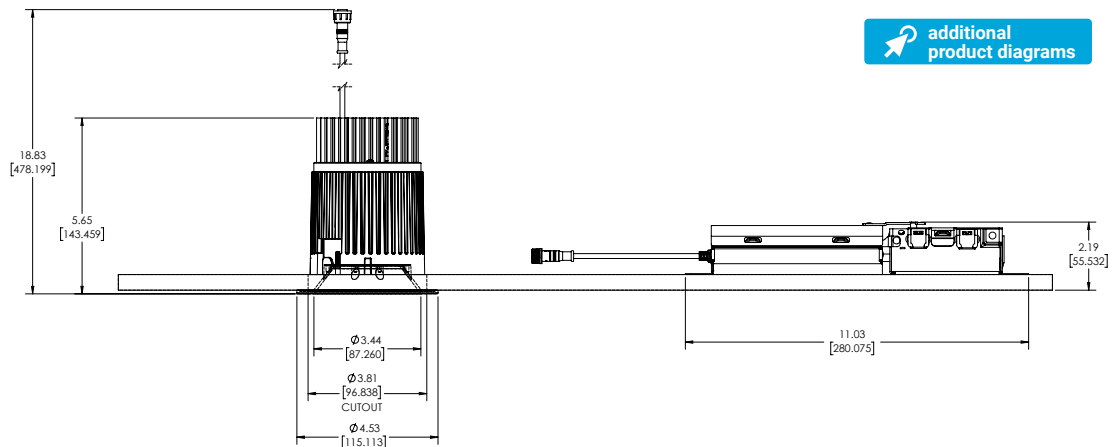
- Order Information page 2
- Product Specifications page 5
- Energy & Performance Data page 8
- Photometric Data page 9
- Connected Systems page 12
- Product Warranty

Top Product Features

- Install from below
- Interchangeable optics in 8°, 12°, 5° increments from 10°-70° and asymmetric patterns
- Available in 250 to 1700 lumens
- Offered in 90, 97 and 98 CRI
- Media holder accepts two lens media
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; 2 SDCM
- D2W™ option from 3000K to 1850K
- W2N tunable white CCT range 2700K to 6500K or 2000K to 5000K
- BioUp tunable 2700K to 5000K and static white 3500K, 4000K, 5000K



Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: LDRT3D09R209030D010 E3BUSR1MW

Domestic Preferences ⁽⁶⁾	Housing	Lumens <small>Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish)</small>		Optics ⁽¹⁾⁽²⁾
[blank]=Standard BAA = Buy American Act TAA = Trade Agreements Act	LDRT3D = 3" downlight recessed install from below LDRT3DKE = 3" downlight recessed install from below for use with knife edge rimless plaster installations (order accessory separately)	90/97/98 CRI IC Rated 02 = 250 lumens 05 = 500 lumens 09 = 900 lumens Non-IC Rated 13 = 1300 lumens 17 = 1700 lumens (90 and 97 CRI) D2W™ Dim-to-Warm ⁽¹⁾⁽²⁾ IC Rated 02 = 250 lumens 05 = 500 lumens 09 = 900 lumens Non-IC Rated 13 = 1300 lumens	W2N™ Tunable White ⁽¹⁾⁽²⁾ IC Rated 05 = 500 lumens BioUp™ Melanopic Lighting ⁽¹⁾⁽²⁾ IC Rated 05 = 500 lumens	[blank] = Order optic separately (Available for ≥15°) R08 = 8° (Offered in 250 lm; Requires DE010 or D5LT driver) ⁽³⁾ R10 = 10° (Offered for 250–900 lm) ⁽³⁾ R12 = 12° (Offered ≤900 lm) ⁽³⁾ R15 = 15° R20 = 20° R25 = 25° R30 = 30° R35 = 35° R40 = 40° R45 = 45° R50 = 50° R55 = 55° R60 = 60° R65 = 65° R70 = 70° (Required when using wall wash trims) Asymmetric Elliptical 2R2040 = 20° x 40° 2R2050 = 20° x 50° 2R2060 = 20° x 60°

CRI/CCT	Driver
90 CRI 9024 = 2400K 9027 = 2700K 9030 = 3000K 9035 = 3500K 9040 = 4000K 9050 = 5000K 97 CRI 9727 = 2700K 9730 = 3000K 9735 = 3500K 9740 = 4000K 98 CRI (250-1300 lumens) 9824 = 2400K 9827 = 2700K 9830 = 3000K 9835 = 3500K 9840 = 4000K	Phase Cut Dimming DTR = 120V phase cut 1% dimming 0-10V Dimming D010 = UNV 120-277V, 0-10V 1% dimming 3D010 = 347V 0-10V 1% dimming, 900-1700 lumens DE010 = UNV 120-277V, 0-10V linear, 0.1% dimming (≥250lm for D2W and ≥500 lm for other CRI/CCT) DALI & Lutron® EcoSystem™ D5LT = UNV 120-277V DALI DT6 logarithmic 0.1% dimming (≥250lm for D2W and ≥500 lm for other CRI/CCT) DLE = UNV 120-277V Lutron Ecosystem 1% dimming, 900 lumens and above DMX (remove driver only) ⁽⁴⁾ DMX = UNV 120-277V DMX/RDM logarithmic 0.1% dimming (≥250lm for D2W and ≥500 lm for other CRI/CCT) DMXC5 = UNV 120-277V DMX/RDM logarithmic 0.1% dimming with RJ45 connection (≥250lm for D2W and ≥500 lm for other CRI/CCT)

Driver Options	Options ⁽⁷⁾
[blank] = Integral driver (Offered with DTR, D010, 3D010, DLE, DE010 and D5LT driver) R = Remote driver (Order remote driver separately. Required for DMX, BioUp and tunable white.)	WaveLinX WPN = WaveLinX PRO Wireless Node without sensor (specify with DE010 or D010) WLN = WaveLinX LITE Wireless Node without sensor (specify with DE010 or D010) Lutron® Athena™ AWN = Athena Wireless Node (specify with DE010 or D010 driver)

Round Spun Aluminum Reflectors	Lens <small>(Lens required for outdoor use)</small>	Flange	Finish
Standard Self-Flanged Trims (Use with Self-flanged Styles 1, 2, or 5) Downlight 3LBUSR = 3" Ultra-shallow bevel Wall Wash (Specify with 70° optic) 3LLSWWR = 3" Lensed single wall wash 3LLDWW = 3" Lensed double wall wash 3LLCWW = 3" Lensed corner wall wash	Knife Edge Trims (Use with Flange Style 4) Downlight 3LBUS = 3" Ultra-shallow bevel Wall Wash (Specify with 70° optic) 3LLSWW = 3" Lensed single wall wash 3LLDWW = 3" Lensed double wall wash 3LLCWW = 3" Lensed corner wall wash	[blank] = Open or lensed wall wash Lenses (Required for outdoor use) L = Textured clear lens LP = Prismatic lens LD = Diffuse lens	1 = Self-flanged (Flange matches reflector finish) 2 = Self-flanged (Flange is painted Matte White) 4 = Knife edge rimless for plaster (Requires Rimless plaster lathing ring accessory) 5 = Self-flanged (Flange is painted Matte Black) LI = Specular clear H = Semi-specular clear WMH = Semi-specular warm haze WH = Specular wheat GPH = Semi-specular graphite B = Specular black MW = Matte white

Continued on next page.

Order Information

Round Die cast Aluminum and Non-conductive Trims (Standard self-flanged & Knife edge rimless plaster)	Lens (Lens required for outdoor use)	Flange Style and finish	Reflector Finish
<p>Standard Self-Flanged Trims (Use with Self-flanged Styles 1, 2, or 5)</p> <p>Downlight 3LCBUSR = 3" Ultra-shallow bevel 3LPINUSR = 3" Pinhole ultra-shallow (Use with flange style 1)</p> <p>Wall Wash (Specify with 70° optic) 3LCLSWWR = 3" Lensed single wall wash 3LLDWWR = 3" Lensed double wall wash 3LCLCWWR = 3" Lensed corner wall wash</p> <p>Non-conductive (Use with Self-flanged Style 1; Select Matte Black or Matte White finish; Lens selection required) 3LPBR = 3" Bevel, Dead front</p>	<p>[blank] = Open, hyperbolic, lensed wall wash, or super adjustable</p> <p>Lenses (Required for outdoor use) L = Textured clear lens LP = Prismatic lens LD = Diffuse lens</p>	<p>1 = Self-flanged (Flange matches reflector finish) 2 = Self-flanged (Flange is painted Matte White) 4 = Knife edge rimless for millwork and plaster (Requires accessories: adapters, and collars depending on ceiling material and thickness; Rimless plaster lathing ring required for plaster ceilings) 5 = Self-flanged (Flange is painted Matte Black)</p>	<p>MW = Matte White MB = Matte Black MMS = Matte metallic silver BZ = Bronze</p>

Media and Optics					
Optics			Media Filters		Lens Options
<p>2R15SP = 15° Beam 2R20 = 20° Beam 2R25NFL = 25° Beam 2R30 = 30° Beam 2R35 = 35° Beam 2R40FL = 40° Beam 2R45 = 45° Beam</p>	<p>2R50 = 50° Beam 2R55WFL = 55° Beam 2R60 = 60° Beam 2R65 = 65° Beam 2R70 = 70° Beam</p>	<p>Asymmetric Elliptical 2R2040 = 20° x 40° 2R2050 = 20° x 50° 2R2060 = 20° x 60°</p>	<p>L112 = Red gel filter L114 = Ultraviolet dichroic filter L120 = Red dichroic filter L121 = Amber dichroic filter L122 = Yellow dichroic filter</p>	<p>L123 = Green dichroic filter L124 = Daylight blue dichroic filter L125 = Blue dichroic filter L127 = Cosmetic (2700K) dichroic filter L131 = Amber gel filter</p>	<p>L110N = Diffuse Sandblasted Lens L111 = Soft Focus Lens L113 = Prismatic Spread Lens L115 = Linear Spread Lens L100MB = Hex cell louver</p>

Accessories		
<p>Knife Edge Rimless Trim Installations (Required for use with Knife Edge rimless trim reflectors for plaster.) RPR3 = Round rimless plaster lathing ring⁽⁶⁾</p>	<p>WaveLinX Sensor Kits WPST = Field installed WaveLinX PRO sensor Kit WLST = Field installed WaveLinX LITE Sensor Kit</p>	<p>New Construction Mounting Frame (Galvanized steel frame with 3/8" drywall collar for precise hole locating and cutting, integral bar hangers (7.25"-24") for traditional framing and T-grid ceilings, and captive thumbscrews for toolless driver/junction box attachment during rough-in.) PMFR3 = 3" round mounting frame for use in traditional framing and T-grid ceilings</p>

Continued on next page.

Order Information

Required if remote driver (R) is specified

Remote driver			
Domestic Preferences ⁽⁶⁾	Flexible Metal Clad Conduit with Wires	Lumens	Color Control
<p>[blank]=Standard BAA = Buy American Act TAA = Trade Agreements Act</p>	<p>RN100 = Remote 100ft RN50 = Remote 50ft RN25 = Remote 25ft RN15 = Remote 15ft RN5 = Remote 5ft RN2 = Remote 2ft</p>	<p>IC Rated 02 = 250 lm 05 = 500 lm 09 = 900 lm</p> <p>Non-IC Rated 13 = 1300 lm 17 = 1700 lm</p>	<p>[blank] = 90, 97 and 98 CRI (98 CRI; ≤1300 lm)</p> <p>D2W™ Dim-to-Warm (90 CRI min; ≤1300 lm) 9030D2W = Dim-to-Warm, 3000K-1850K</p> <p>W2N™ Tunable White (Specify with D5LT or DE010 driver) W2N902050 = Tunable white, 2000K-5000K CCT (500 lm) W2N902765 = Tunable white, 2700K-6500K CCT (500 lm)</p> <p>BioUp™ (Specify with D5LT, DE010 or LD2 driver) B2750 = BioUp™ Boosted cyan tunable white 2700K-5000K (500 lm) B35 = Static Bioup 3500K (500 lm, DE010 driver only) B40 = Static Bioup 4000K (500 lm, DE010 driver only) B50 = Static Bioup 5000K (500 lm, DE010 driver only)</p>

Driver	Options
<p>Phase Cut Dimming DTR = 120V phase cut 1% dimming</p> <p>0-10V Dimming D010 = UNV 120-277V, 0-10V 1% dimming 3D010 = 347V 0-10V 1% dimming (900-1700 lm) DE010 = UNV 120-277V, 0-10V linear, 0.1% dimming (500-1700 lm)</p> <p>DALI & DMX D5LT = UNV 120-277V DALI DT6 logarithmic 0.1% dimming (500-1700 lm) DMX = UNV 120-277V DMX/RDM logarithmic 0.1% dimming (500-1700 lm) ⁽⁴⁾ DMXC5 = UNV 120-277V DMX/RDM logarithmic 0.1% dimming with RJ45 connection (500-1700 lm) ⁽⁴⁾</p> <p>Lutron® EcoSystem™ & DALI DLE = UNV 120-277V Lutron® EcoSystem™ 1% dimming (≥900 lm; limited to 25ft.)</p>	<p>EMBOD6ST = Bodine® 6W Self Test Emergency Module with Remote Test Switch (500 lumens and above) EM7 = 7W integral emergency backup battery with remote test switch (900 lumens and above) EM14 = 14W integral emergency backup battery with remote test switch (1700 lumens and above) EM14RSD = 14W Self Diagnostic Replaceable Emergency Battery Pack with Remote Test Switch (1700 lumens and above) ETRD = Emergency transfer device</p> <p>WaveLinX WPST = Factory installed WaveLinX PRO sensor kit WLST = Factory installed WaveLinX LITE sensor kit WPN = WaveLinX PRO Wireless Node without sensor specify with DE010 or D010 WLN = WaveLinX LITE Wireless Node without sensor specify with DE010 or D010</p> <p>Lutron® Athena™ AWN = Athena Wireless Node specify with DE010 or D010</p>

- Notes:**
1. Optic accommodates 2 media with 90, 97, and 98 CRI and 1 media with D2W™, W2N™, and BioUp™.
 2. D2W™, W2N™, and BioUp™ are offered with ≥15° optics
 3. Optic must be specified with the housing for ≤12°
 4. DMX fixtures default to full ON upon loss of DMX signal
 5. Adjustment angles are set at ideal ceiling thickness of 1/2". For each additional 1/8" ceiling thickness the adjustment angle is reduced by 2°.
 6. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Offered with spun aluminum narrow (N), medium (M) and wide (W) trims.
 7. Non-IC

Product Specifications

Module

- One piece installs from below the ceiling with integral mounting clamps
- Mounting clamps tighten from below the ceiling with #2 Phillips screwdriver
- Accommodates 1/2" to 1-1/4" ceiling thickness
- Ships with an overspray protector installed
- Plaster lathing ring attaches to collar providing a flush transition with the ceiling

Thermal Management/Heat sink

- Forged aluminum heat sink conducts heat away from the LED array for optimum performance and longer life
- Heat sink with LED can be serviced from below the ceiling

Junction Box

- Four 1/2" conduit pry-outs
- Lever connectors for simple push in wiring

Optional Mounting Frame

- Galvanized steel mounting frame with offset aperture and 3/8" drywall collar for hole location includes a notch at 90° intervals for laser centering
- Mounting flange levels frame with ceiling
- Locking screws provide positive horizontal locking feature to shorten without removal
- Bar hangers adjust from 8" to 24" wide with pass through without removing
- Captive nail penetrates standard and engineered lumber
- Integral clip attaches directly to t-bar

LED Array

- Proximity phosphors over chip on board • Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 2400, 2700, 3000, 3500, 4000 and 5000K CCT, 90 CRI minimum, R9 greater than 50 and color accuracy within 2 SDCM. L78 55,000
- Optional full spectrum color at 2400, 2700, 3000, 3500 and 4000 K CCT, 95 CRI minimum with R1-R15 values ranging from 92 to 100, excellent TM-30 metrics; Rf ranging from 96-98 and Rg from 99-100. L70 55,000 hours
- D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.
- W2N - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard
- BioUp - Tunable white CCT range 2700K to 5000K Provides the biological effectiveness of natural sunlight, with color temperatures that are more comfortable for indoor environments

Optic

- Polarized turn and lock mounting aligns optic to source allowing rapid aim and focus in the field
- Silicone molded TIR optic produces smooth beams available from 8° to 70° distribution patterns in 5° increments
- Asymmetric options in 20x40, 20x50 and 20x60 distributions
- Integral media holder accepts one or two 2" diameter 3.0mm thick color filters, lenses or louvers, order media separately

Reflector

- Field interchangeable open and lensed reflectors are available in downlight and wall wash , also available in a pinhole aperture
- Available in open and lens versions, lens versions are wet location listed and suitable for use in shower and steam applications
- Lensed option offered in prismatic, diffuse and lightly textured translucent clear

Wall Wash Reflector

- Lensed wall wash reflector offered in single and double wall wash providing even vertical illumination with minimal source brightness
- Trim attaches simply and securely with 16 neodymium magnets
- Plaster lathing ring accessory provides a flush transition and snaps to the plaster collar

Driver - Remote or integral

- Standard UNV 120-277V or 347V constant current driver provides noise free operation
- 120V, flicker-free dimming from 100% to <1% with phase cut control
- Continuous, flicker-free dimming from 100% to 1% with 0-10V analog control
- Optional DALI, DMX and Lutron control
- Integral driver has quick disconnect for ease of replacement

Connected Lighting System

Two WaveLinX connected solutions to choose from. Refer to WaveLinX system specifications and application guides for details.

[WaveLinX PRO Tilemount Sensor Kit](#)

- WaveLinX PRO WPST tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

[WaveLinX PRO Wireless Node](#)

- WaveLinX PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

[WaveLinX LITE Tilemount Sensor Kit](#)

- WaveLinX LITE WLST tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

[WaveLinX LITE Wireless Node](#)

- WaveLinX LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum

WaveLinX Tilemount Sensor Kits Application

- The WPST and WLST tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WPST and WLST tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

- **Note: WaveLinX PRO devices are only compatible with the WaveLinX PRO system.**
- **Note: WaveLinX LITE devices are only compatible with the WaveLinX LITE system.**

Compliance

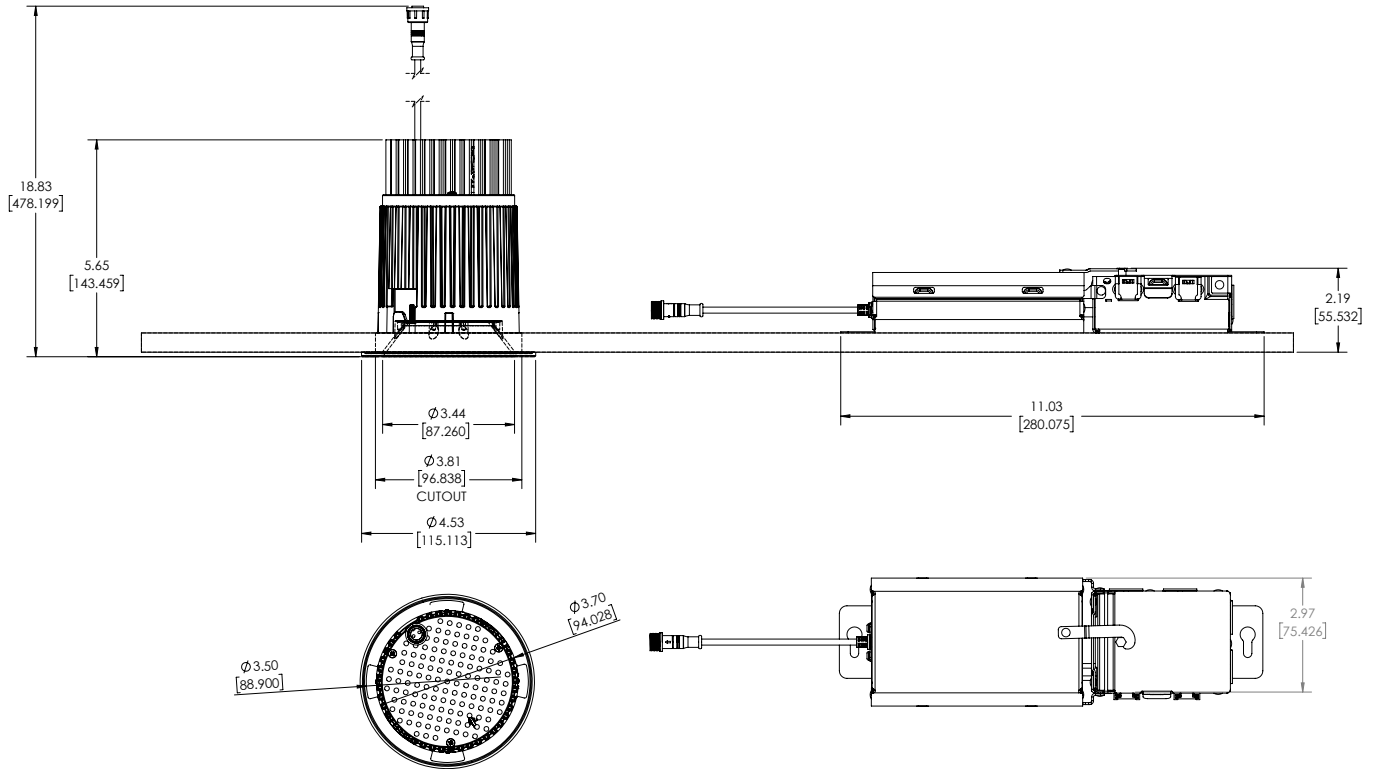
- cULus Certified to UL 1598 / C22.2 No. 250 suitable for wet locations with lensed trims; damp location with open trims. Lensed trims required for outdoor use.
- Wet location and steam room (up to 40°C / 104°F, up to 500 lumens; 25°C up to 1700 lumens), covered ceilings only and IP65, below the ceiling only with lens trims
- cULus listed for 25°C ambient environments
- Insulated ceiling (IC) rated and non-IC rated refer to ordering information table
- Airtight per ASTM-E283 with lensed trim
- FCC CFR Title 47 Part 15 Class B at 120VAC and Class A at 277VAC
- Declare compliant, LBC Red List approved
- RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2019 JA8 High Efficacy Lighting

Warranty

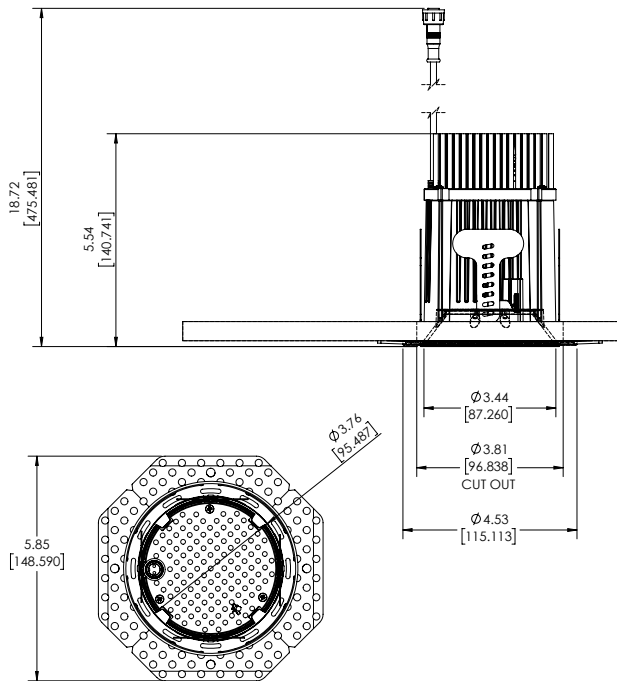
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Dimensional and Mounting Details

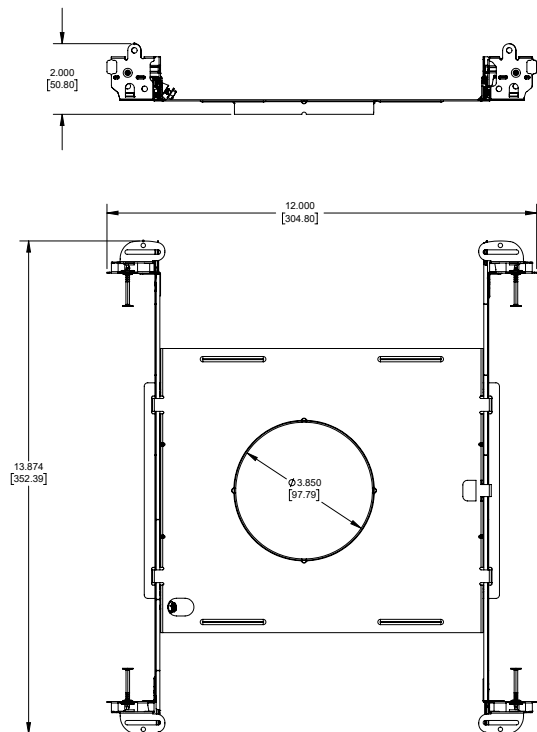
ROUND DOWNLIGHT SELF FLANGE



ROUND DOWNLIGHT KNIFE EDGE



MOUNTING FRAME ACCESSORY



Trim Finishes

Round Spun Anodized Finishes



Specular
(LI)



Haze
(H)



Warm Haze
(WMH)



Specular Wheat
(WH)



Graphite Haze
(GPH)



Specular Black
(B)

Round Painted Finishes



Matte Black
(MB)



Matte White
(MW)

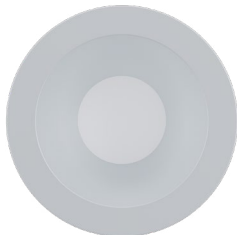


Bronze
(BZ)



Matte Metallic Silver
(MMS)

Trim Type



Standard Flange



Knife Edge

Energy and Performance Data

DTR DRIVER ENERGY DATA

	250 lumen	500 lumen	900 lumen	1300 lumen	1700 lumen
Input Power (W)	4.2	8.7	13.5	16.5	23.3
Input Current (A)	0.04	0.07	0.11	0.14	0.19
PF	>0.9	>0.9	>0.9	>0.9	>0.9
THDi (%)	18.01	7.8	7.64	8.32	7.6
Inrush Current (A)	1.6	1.7	4.9	0.5	4.8
Inrush Duration (µs)	33	30	33	32	30
Sound (dBA)	<22	<22	<22	<22	<22

D010 DRIVER ENERGY DATA

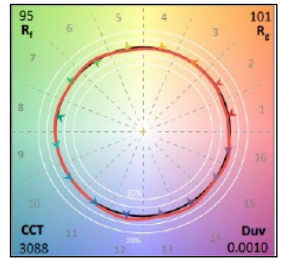
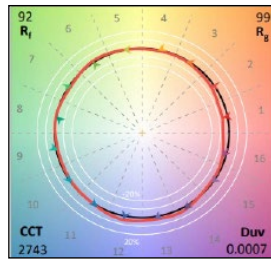
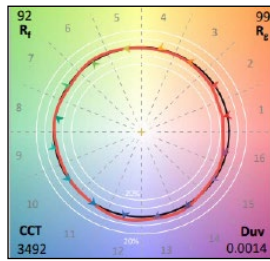
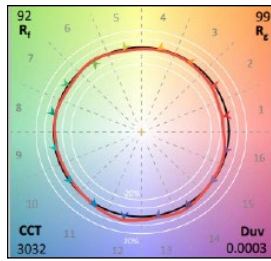
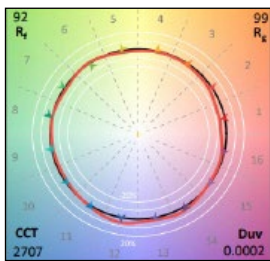
	250 lumen		500 lumen		900 lumen		1300 lumen		1700 lumen	
	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Power (W)	5.1	5.3	7.2	7.6	11.7	11.9	15.6	16.0	21.4	21.5
Input Current (A)	0.04	0.02	0.06	0.03	0.10	0.05	0.13	0.06	0.18	0.08
PF	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9
THDi (%)	18.7	19.0	8.25	12.8	6.96	9.2	6.11	10.2	6.74	8.1
Inrush Current (A)	4.5	9.7	4.6	10.5	4.6	10.5	5.2	11.9	5.3	11.9
Inrush Duration (µs)	41	19	43	19	43	19	40	19	46	17
Sound (dBA)	<22	<22	<22	<22	<22	<22	<22	<22	<22	<22

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

Notes:
Emergency Battery packs are rated for a minimum starting temperature of 0°C.

COLOR METRICS - TM-30-18 & CRI/CIE



9027		
TM-30-18	R _f	92
	R _g	99
CRI/CIE	R _a	92
	R ₉	50

9030		
TM-30-18	R _f	92
	R _g	99
CRI/CIE	R _a	93
	R ₉	51

9035		
TM-30-18	R _f	92
	R _g	99
CRI/CIE	R _a	93
	R ₉	58

9727		
TM-30-18	R _f	92
	R _g	99
CRI/CIE	R _a	97
	R ₉	85

9730		
TM-30-18	R _f	101
	R _g	95
CRI/CIE	R _a	97
	R ₉	83

Photometric Data

12° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219665	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R129035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>480.8</td> <td>1.2</td> <td>1.2</td> </tr> <tr> <td>8'</td> <td>270.5</td> <td>1.6</td> <td>1.6</td> </tr> <tr> <td>10'</td> <td>173.1</td> <td>2</td> <td>2</td> </tr> <tr> <td>12'</td> <td>120.2</td> <td>2.6</td> <td>2.6</td> </tr> </tbody> </table>		D	FC	L	W	6'	480.8	1.2	1.2	8'	270.5	1.6	1.6	10'	173.1	2	2	12'	120.2	2.6	2.6	0	17310	0-30	1146	97.5	45	1147
D	FC	L	W																													
6'	480.8	1.2	1.2																													
8'	270.5	1.6	1.6																													
10'	173.1	2	2																													
12'	120.2	2.6	2.6																													
Trim	3LCBUS1MW					5	11142	0-40	1170	99.6	55	0																				
Lumens	1175					15	862	0-60	1175	100	65	0																				
Efficacy	75.8 Lm/W					25	150	0-90	1175	100	75	0																				
SC	0.22					35	36	90-180	0	0	85	0																				
UGR	0					45	4	0-180	1175	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

15° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219671	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R159035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>345.2</td> <td>1.6</td> <td>1.6</td> </tr> <tr> <td>8'</td> <td>194.2</td> <td>2.2</td> <td>2.2</td> </tr> <tr> <td>10'</td> <td>124.3</td> <td>2.8</td> <td>2.8</td> </tr> <tr> <td>12'</td> <td>86.3</td> <td>3.4</td> <td>3.4</td> </tr> </tbody> </table>		D	FC	L	W	6'	345.2	1.6	1.6	8'	194.2	2.2	2.2	10'	124.3	2.8	2.8	12'	86.3	3.4	3.4	0	12427	0-30	1262	99	45	0
D	FC	L	W																													
6'	345.2	1.6	1.6																													
8'	194.2	2.2	2.2																													
10'	124.3	2.8	2.8																													
12'	86.3	3.4	3.4																													
Trim	3LCBUS1MW					5	9785	0-40	1274	99.9	55	0																				
Lumens	1275					15	1267	0-60	1275	100	65	0																				
Efficacy	87.3 Lm/W					25	143	0-90	1275	100	75	0																				
SC	0.29					35	15	90-180	0	0	85	0																				
UGR	0					45	0	0-180	1275	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

20° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219677	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R209035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>285.8</td> <td>2</td> <td>2</td> </tr> <tr> <td>8'</td> <td>160.8</td> <td>2.6</td> <td>2.6</td> </tr> <tr> <td>10'</td> <td>102.9</td> <td>3.2</td> <td>3.2</td> </tr> <tr> <td>12'</td> <td>71.5</td> <td>4</td> <td>4</td> </tr> </tbody> </table>		D	FC	L	W	6'	285.8	2	2	8'	160.8	2.6	2.6	10'	102.9	3.2	3.2	12'	71.5	4	4	0	10290	0-30	1318	98.9	45	651
D	FC	L	W																													
6'	285.8	2	2																													
8'	160.8	2.6	2.6																													
10'	102.9	3.2	3.2																													
12'	71.5	4	4																													
Trim	3LCBUS1MW					5	8685	0-40	1330	99.9	55	0																				
Lumens	1332					15	1682	0-60	1332	100	65	0																				
Efficacy	91.2 Lm/W					25	139	0-90	1332	100	75	0																				
SC	0.34					35	19	90-180	0	0	85	0																				
UGR	0					45	2	0-180	1332	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

25° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219683	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R259035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>197.9</td> <td>2.4</td> <td>2.4</td> </tr> <tr> <td>8'</td> <td>111.3</td> <td>3.4</td> <td>3.4</td> </tr> <tr> <td>10'</td> <td>71.2</td> <td>4.2</td> <td>4.2</td> </tr> <tr> <td>12'</td> <td>49.5</td> <td>5</td> <td>5</td> </tr> </tbody> </table>		D	FC	L	W	6'	197.9	2.4	2.4	8'	111.3	3.4	3.4	10'	71.2	4.2	4.2	12'	49.5	5	5	0	7123	0-30	1337	98.8	45	0
D	FC	L	W																													
6'	197.9	2.4	2.4																													
8'	111.3	3.4	3.4																													
10'	71.2	4.2	4.2																													
12'	49.5	5	5																													
Trim	3LCBUS1MW					5	6573	0-40	1353	99.9	55	0																				
Lumens	1354					15	2230	0-60	1354	100	65	0																				
Efficacy	92.7 Lm/W					25	255	0-90	1354	100	75	0																				
SC	0.43					35	21	90-180	0	0	85	0																				
UGR	0					45	0	0-180	1354	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

Photometric Data

30° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219689	Downlight				Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R309035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>155.8</td> <td>3</td> <td>3</td> </tr> <tr> <td>8'</td> <td>87.6</td> <td>4</td> <td>4</td> </tr> <tr> <td>10'</td> <td>56.1</td> <td>5</td> <td>5</td> </tr> <tr> <td>12'</td> <td>38.9</td> <td>6</td> <td>6</td> </tr> </tbody> </table>		D	FC	L	W	6'	155.8	3	3	8'	87.6	4	4	10'	56.1	5	5	12'	38.9	6	6	0	5608	0-30	1353	98.7	45	0
D	FC	L	W																													
6'	155.8	3	3																													
8'	87.6	4	4																													
10'	56.1	5	5																													
12'	38.9	6	6																													
Trim	3LCBUS1MW					5	5428	0-40	1370	99.9	55	0																				
Lumens	1371					15	2683	0-60	1371	100	65	0																				
Efficacy	93.9 Lm/W					25	255	0-90	1371	100	75	0																				
SC	0.5					35	24	90-180	0	0	85	0																				
UGR	0					45	0	0-180	1371	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

35° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219695	Downlight				Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R359035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>127.7</td> <td>3.2</td> <td>3.2</td> </tr> <tr> <td>8'</td> <td>71.8</td> <td>4.4</td> <td>4.4</td> </tr> <tr> <td>10'</td> <td>46</td> <td>5.4</td> <td>5.4</td> </tr> <tr> <td>12'</td> <td>31.9</td> <td>6.6</td> <td>6.6</td> </tr> </tbody> </table>		D	FC	L	W	6'	127.7	3.2	3.2	8'	71.8	4.4	4.4	10'	46	5.4	5.4	12'	31.9	6.6	6.6	0	4597	0-30	1346	97.8	45	0
D	FC	L	W																													
6'	127.7	3.2	3.2																													
8'	71.8	4.4	4.4																													
10'	46	5.4	5.4																													
12'	31.9	6.6	6.6																													
Trim	3LCBUS1MW					5	4443	0-40	1374	99.9	55	0																				
Lumens	1376					15	2714	0-60	1376	100	65	0																				
Efficacy	94.2 Lm/W					25	398	0-90	1376	100	75	0																				
SC	0.55					35	41	90-180	0	0	85	0																				
UGR	0					45	0	0-180	1376	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

40° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219701	Downlight				Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R409035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>112.9</td> <td>3.8</td> <td>3.8</td> </tr> <tr> <td>8'</td> <td>63.5</td> <td>5</td> <td>5</td> </tr> <tr> <td>10'</td> <td>40.6</td> <td>6.2</td> <td>6.2</td> </tr> <tr> <td>12'</td> <td>28.2</td> <td>7.6</td> <td>7.6</td> </tr> </tbody> </table>		D	FC	L	W	6'	112.9	3.8	3.8	8'	63.5	5	5	10'	40.6	6.2	6.2	12'	28.2	7.6	7.6	0	4063	0-30	1422	98.1	45	0
D	FC	L	W																													
6'	112.9	3.8	3.8																													
8'	63.5	5	5																													
10'	40.6	6.2	6.2																													
12'	28.2	7.6	7.6																													
Trim	3LCBUS1MW					5	4009	0-40	1448	99.9	55	0																				
Lumens	1449					15	3012	0-60	1449	100	65	0																				
Efficacy	99.2 Lm/W					25	454	0-90	1449	100	75	0																				
SC	0.64					35	36	90-180	0	0	85	0																				
UGR	0					45	0	0-180	1449	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

50° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219707	Downlight				Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R509035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>73.1</td> <td>4.2</td> <td>4.2</td> </tr> <tr> <td>8'</td> <td>41.1</td> <td>5.6</td> <td>5.6</td> </tr> <tr> <td>10'</td> <td>26.3</td> <td>7</td> <td>7</td> </tr> <tr> <td>12'</td> <td>18.3</td> <td>8.4</td> <td>8.4</td> </tr> </tbody> </table>		D	FC	L	W	6'	73.1	4.2	4.2	8'	41.1	5.6	5.6	10'	26.3	7	7	12'	18.3	8.4	8.4	0	2631	0-30	1279	89.4	45	0
D	FC	L	W																													
6'	73.1	4.2	4.2																													
8'	41.1	5.6	5.6																													
10'	26.3	7	7																													
12'	18.3	8.4	8.4																													
Trim	3LCBUS1MW					5	2558	0-40	1427	99.7	55	0																				
Lumens	1431					15	2059	0-60	1431	100	65	0																				
Efficacy	98 Lm/W					25	1075	0-90	1431	100	75	0																				
SC	0.71					35	195	90-180	0	0	85	0																				
UGR	1.3					45	0	0-180	1431	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

Photometric Data

55° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219713	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R559035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>59.5</td> <td>5.2</td> <td>5.2</td> </tr> <tr> <td>8'</td> <td>33.5</td> <td>6.8</td> <td>6.8</td> </tr> <tr> <td>10'</td> <td>21.4</td> <td>8.6</td> <td>8.6</td> </tr> <tr> <td>12'</td> <td>14.9</td> <td>10.4</td> <td>10.4</td> </tr> </tbody> </table>		D	FC	L	W	6'	59.5	5.2	5.2	8'	33.5	6.8	6.8	10'	21.4	8.6	8.6	12'	14.9	10.4	10.4	0	2141	0-30	1271	89.9	45	0
D	FC	L	W																													
6'	59.5	5.2	5.2																													
8'	33.5	6.8	6.8																													
10'	21.4	8.6	8.6																													
12'	14.9	10.4	10.4																													
Trim	3LCBUS1MW					5	2036	0-40	1408	99.7	55	0																				
Lumens	1413					15	1912	0-60	1413	100	65	0																				
Efficacy	96.8 Lm/W					25	1257	0-90	1413	100	75	0																				
SC	0.87					35	171	90-180	0	0	85	0																				
UGR	2.7					45	0	0-180	1413	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

60° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219719	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R609035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>48.2</td> <td>5</td> <td>5</td> </tr> <tr> <td>8'</td> <td>27.1</td> <td>6.8</td> <td>6.8</td> </tr> <tr> <td>10'</td> <td>17.4</td> <td>8.4</td> <td>8.4</td> </tr> <tr> <td>12'</td> <td>12.1</td> <td>10.2</td> <td>10.2</td> </tr> </tbody> </table>		D	FC	L	W	6'	48.2	5	5	8'	27.1	6.8	6.8	10'	17.4	8.4	8.4	12'	12.1	10.2	10.2	0	1735	0-30	1054	78	45	0
D	FC	L	W																													
6'	48.2	5	5																													
8'	27.1	6.8	6.8																													
10'	17.4	8.4	8.4																													
12'	12.1	10.2	10.2																													
Trim	3LCBUS1MW					5	1678	0-40	1334	98.8	55	0																				
Lumens	1351					15	1583	0-60	1351	100	65	0																				
Efficacy	92.5 Lm/W					25	1021	0-90	1351	100	75	0																				
SC	0.86					35	473	90-180	0	0	85	0																				
UGR	5.7					45	0	0-180	1351	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

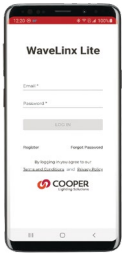
65° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219725	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R659035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>46.3</td> <td>5.2</td> <td>5.2</td> </tr> <tr> <td>8'</td> <td>26.1</td> <td>7</td> <td>7</td> </tr> <tr> <td>10'</td> <td>16.7</td> <td>8.8</td> <td>8.8</td> </tr> <tr> <td>12'</td> <td>11.6</td> <td>10.6</td> <td>10.6</td> </tr> </tbody> </table>		D	FC	L	W	6'	46.3	5.2	5.2	8'	26.1	7	7	10'	16.7	8.8	8.8	12'	11.6	10.6	10.6	0	1668	0-30	1003	80.4	45	0
D	FC	L	W																													
6'	46.3	5.2	5.2																													
8'	26.1	7	7																													
10'	16.7	8.8	8.8																													
12'	11.6	10.6	10.6																													
Trim	3LCBUS1MW					5	1569	0-40	1237	99.1	55	0																				
Lumens	1248					15	1415	0-60	1248	100	65	0																				
Efficacy	85.5 Lm/W					25	1049	0-90	1248	100	75	0																				
SC	0.89					35	381	90-180	0	0	85	0																				
UGR	6.9					45	0	0-180	1248	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

70° Optic		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE																					
Test Number	P1219731	Downlight				Degrees Vertical	Candela	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance																				
Housing	LDRT3D13R709035			<table border="1"> <thead> <tr> <th>D</th> <th>FC</th> <th>L</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>6'</td> <td>38.1</td> <td>5.4</td> <td>5.4</td> </tr> <tr> <td>8'</td> <td>21.5</td> <td>7.2</td> <td>7.2</td> </tr> <tr> <td>10'</td> <td>13.7</td> <td>9</td> <td>9</td> </tr> <tr> <td>12'</td> <td>9.5</td> <td>11</td> <td>11</td> </tr> </tbody> </table>		D	FC	L	W	6'	38.1	5.4	5.4	8'	21.5	7.2	7.2	10'	13.7	9	9	12'	9.5	11	11	0	1373	0-30	856	69.1	45	0
D	FC	L	W																													
6'	38.1	5.4	5.4																													
8'	21.5	7.2	7.2																													
10'	13.7	9	9																													
12'	9.5	11	11																													
Trim	3LCBUS1MW					5	1302	0-40	1212	97.9	55	0																				
Lumens	1238					15	1152	0-60	1238	100	65	0																				
Efficacy	84.8 Lm/W					25	906	0-90	1238	100	75	0																				
SC	0.92					35	636	90-180	0	0	85	0																				
UGR	10.4					45	0	0-180	1238	100																						
						55	0																									
						65	0																									
						75	0																									
						85	0																									
						90	0																									

Connected Systems

WaveLinx LITE - WLST Tilemount Sensor

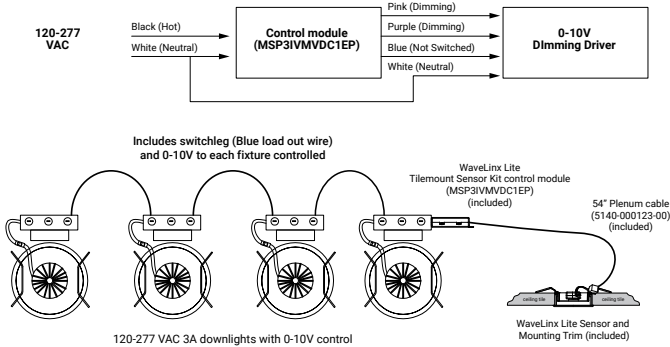
WaveLinx LITE devices only compatible with the WaveLinx LITE system.



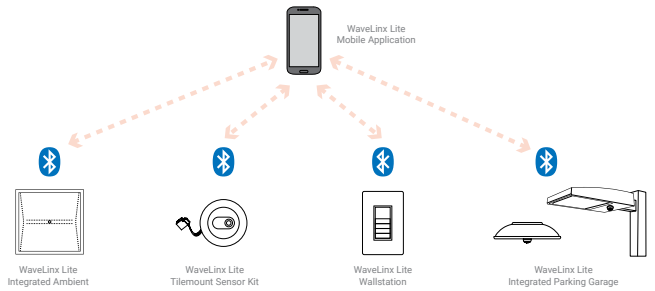
- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinx system specifications for details



WaveLinx LITE WLST Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System



WaveLinx PRO Wireless – WPST Tilemount Sensor

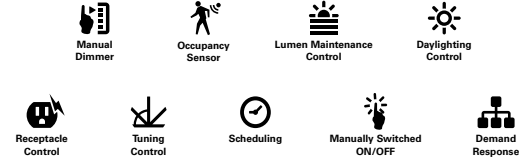
WaveLinx PRO devices only compatible with the WaveLinx PRO system.



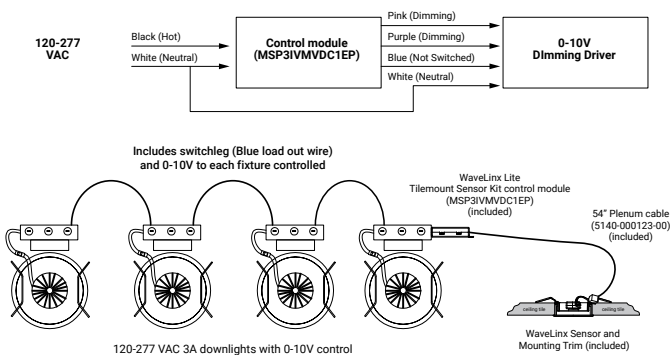
- WaveLinx PRO Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



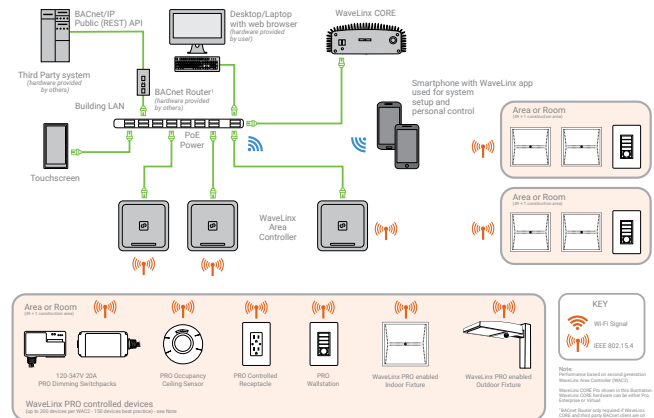
WaveLinx mobile app settings



WaveLinx PRO WPST Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Solutions



WaveLinX LITE Wireless Node - WLN

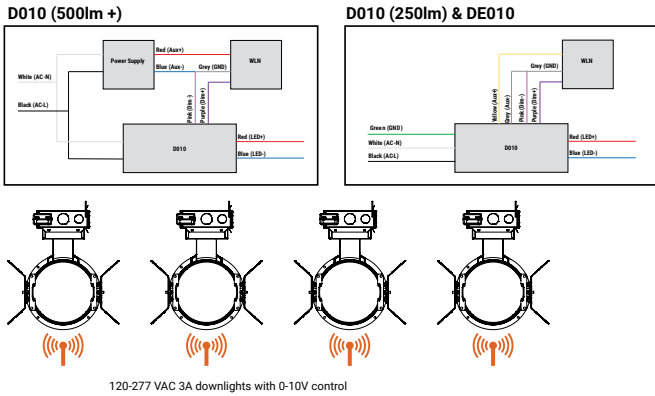
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinX system specifications for details
- Not available with BioUp or Tunable White

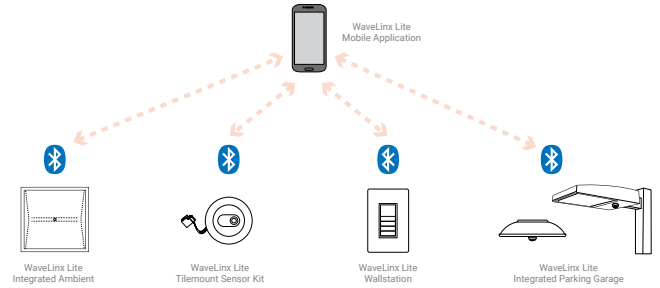
WaveLinX mobile app settings



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System



WaveLinX PRO Wireless Node - WPN

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

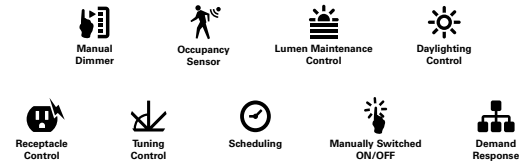
Downlights with wireless communication
Highly efficient LED fixtures

WaveLinX Area Controller
Provides centralized coordination of multiple area control options

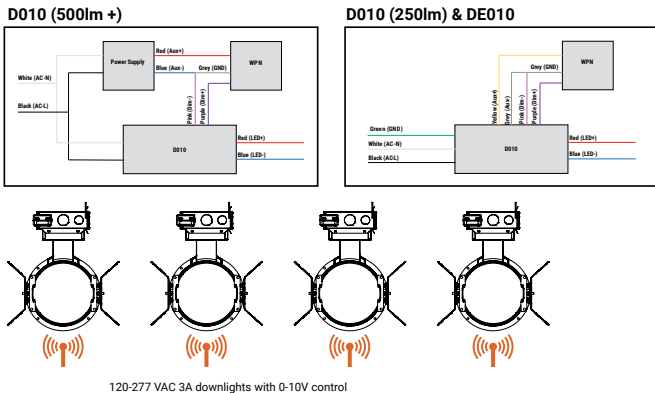
Wireless Wall Station/Receptacle
Provides customized wireless control of each area

Mobile Applications
Provides personalized, local control from a tablet or smartphone

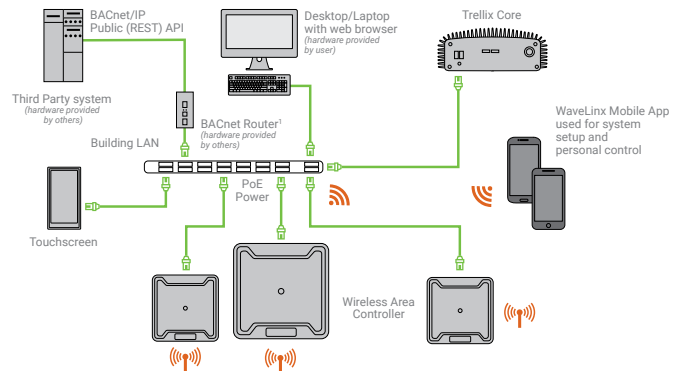
WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration



Proven Research. Industry Recognized.

BioUp Melanopic Lighting



See better



Feel better



Function better



See [BioUp brochure](#) for more details



ANSI/IES RP-46-23

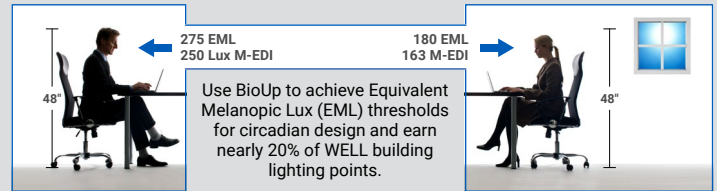
RECOMMENDED PRACTICE:
SUPPORTING THE PHYSIOLOGICAL
AND BEHAVIORAL EFFECTS
OF LIGHTING IN INTERIOR
DAYTIME ENVIRONMENTS
AN AMERICAN NATIONAL STANDARD

ANSI/IES RP-46-23 / TM18 published March 2024 based on over 40 years of research.

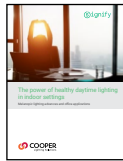
"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18



BioUp solutions maximize WELL points for Circadian Lighting Design (L03):



MDER, M-EDI and **EML** are key metrics used to quantify non-visual performance of indoor lighting systems.



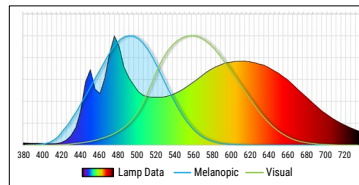
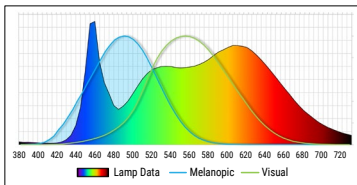
See [BioUp white paper](#) for more details

30% boost Biological impact compared to traditional LED sources

MDER - Melanopic Daylight Efficacy Ratio (MDER) measures the amount of light stimulating to the melanopsin receptors.

Standard 4000K LED
MDER = .62

BioUp 4000K LED
MDER = .82



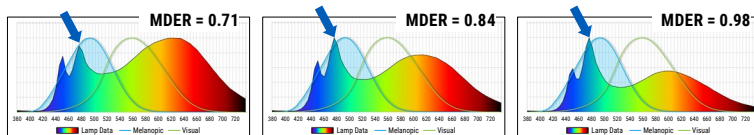
CCT	LED @ ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.45	-	-	0.43	95
3000K	0.50	-	-	0.57	94
3500K	0.57	0.71	90	0.71	90
4000K	0.65	0.84	87	0.84	87
5000K	0.79	1.00	84	1.00	84

BioUp enhances the LED spectrum with cyan light at 475nm increasing the biological impact of the light to enhance our circadian rhythm which regulates our sleep/wake cycle, daytime engagement, and mood – **all without distorting visual color impression.**

Static (non-tunable)

Static BioUp is used when simple Melanopic Lighting is desired at all times.

Arrow in graph shows BioUp spectrum boost is at 475nm where non-visual biological response is enhanced.



3500K or **4000K** or **5000K**

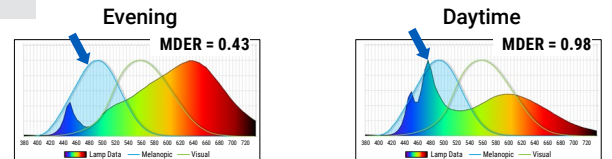
Cyan light component always present



> no CCT control needed

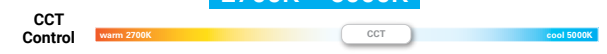
Dynamic - (Tunable)

Dynamic BioUp is used when Melanopic Lighting is desired to adjust during the day.



Warmer CCT Without Cyan content ← → Cooler Light With Cyan content

2700K – 5000K



> Control with Wavelinx, 2ch 0-10V, or DALI