

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO Commercial

HCC6 | HM6C | 61

6-inch lens cylinder and lens wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional

Interactive Menu

- Order Information page 2
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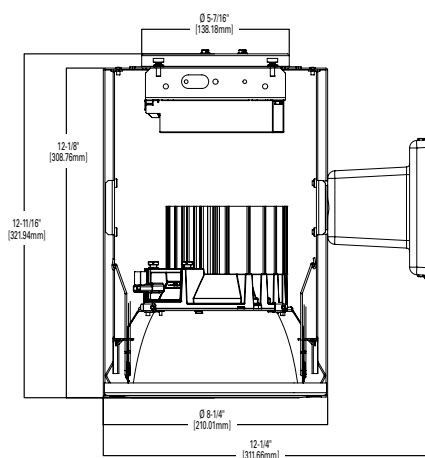


Top Product Features

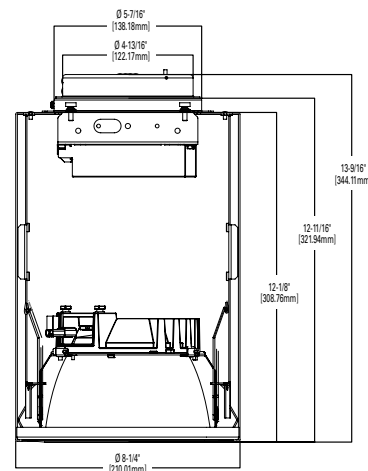
- 500 to 5000 lumens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Narrow, Medium, Wide beam distribution in precision formed reflectors
- Wall wash with exclusive rotatable linear spread lens
- Specular, Semi Specular, White, Black & White Baffle reflector finishes
- Matte white, matte black, silver and bronze silver cylinder finishes
- Wall mount, and Surface mount with aircraft cable and pendant accessory options

Dimensional and Mounting Details

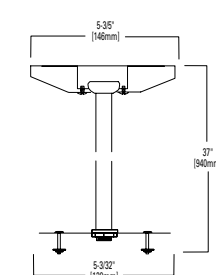
WALL MOUNT



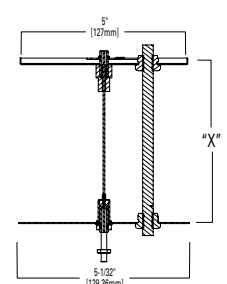
SURFACE MOUNT



PENDANT



AIRCRAFT CABLE



Low Lumen Module



Mid Lumen Module



High Lumen Module

Order Information

SAMPLE ORDER NUMBER: **HCC6S20D010MW - HM6C0525835 - 61MDC****A complete luminaire consists of a cylinder, LED module, and reflector; ordered separately**

Cylinder	Lumens	Driver Options	Finish	Factory Installed Connected Lighting Options
HCC6S = 6" Surface Mount Cylinder for ceiling, cable, or pendant mounting HCC6W = 6" Wall Mount Cylinder	05 = 500 lm 30 = 3000 lm 07 = 750 lm 35 = 3500 lm 10 = 1000 lm 40 = 4000 lm 15 = 1500 lm 45 = 4500 lm 20 = 2000 lm 50 = 5000 lm 25 = 2500 lm	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-4000 lumens D010347 = 347VAC 50/60Hz 0-10V, 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000lm models only	MW = Matte White MB = Matte Black BZ = Bronze SL = Silver	WPN = WaveLinX PRO Wireless Node without sensor ⁽⁴⁾ WLN = WaveLinX LITE Wireless Node without Sensor ⁽⁵⁾
Notes	Notes	Notes	Notes	Notes (4) WPN = WaveLinX PRO 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. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX PRO system specifications.) (5) WLN = WaveLinX LITE 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. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX LITE system specifications.)

Accessories (Order & Install Separately)	Option
Pendant Kit ⁽¹⁾ HCC8P36MW = Matte White pendant stem kit HCC8P36MB = Matte black pendant stem kit HCC8P36BZ = Bronze pendant stem kit HCC8P36SL = Silver pendant stem kit	Blank = 36" SP* = * specify 6 to 144 in 1" increments
Aircraft Cable Kit ^{(1) (2)} HCAC120MW = 120" white power cable & aircraft cable kit HCAC48MW = 48" white power cable & aircraft cable kit HCAC120MB = 120" black power cable & aircraft cable kit HCAC48MB = 48" black power cable & aircraft cable kit	Blank = 5 conductor cable (power & 0-10V dimming)
Notes	Notes
(1) Pendant and Aircraft Cable mounting accessories for use with surface cylinders. (2) Aircraft cable kit finish options: white or black cable & canopy plate, and stainless steel aircraft cable	

LED Module	Lumens	CRI / CCT (minimum)	
HM6C = 6" LED Modules For use with HCC6 cylinders only	0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4550 = 4500-5000 lumen	827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K	927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K
Notes	Notes	Notes	

Reflector	Distribution ⁽³⁾	Finish	Flange	Accessories (Order Separately)
61 = 6" self-flanged, conical reflector	ND = narrow reflector 58° beam angle, 0.97 SC MD = medium reflector 60° beam angle, 1.10 SC WD = wide reflector 65° beam angle, 1.28 SC RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors BF = Black Flange option available with C, H & W reflectors	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only
61 = 6" self-flanged, baffle reflector	WD = wide baffle 65° beam angle, 1.28 SC RWW = rotatable wall wash with linear spread lens (wide beam baffle with lens wall wash insert)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB & WB reflectors BF = Black flange option available with BB reflectors	
Notes	Notes (3) Values are nominal, based on specular clear reflector, other may vary. Additional factors include CRI/CCT, reflector finish, and lumen selected.	Notes	Notes	

Product Specifications

Cylinder

- Round seamless spun aluminum housing available in matte white, matte black, bronze, or silver paint finish

Mounting

- Ceiling mount: Included cylinder mounting plate installs to ceiling junction box (supplied by others), and the surface cylinder mounts to the plate with easy twist and lock hooks
- Pendant mount: Pendant stem (ordered separately) is field installed to the surface cylinder mounting plate. Offered in matching housing finishes
- Aircraft cable mount: Aircraft cable (ordered separately) is field installed to the surface cylinder mounting plate. Offered in white or black cable kit
- Wall mount: A mounting arm on the cylinder is designed to be attached directly to wall junction box (supplied by others) via a sturdy mounting plate

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 CRI (nominal), provides accuracy within 3 SDCM color uniformity
- 90 CRI, R9>50 (refer to chromaticity technical note online for details)
- Correlated Color Temperature options (nominal)
 - 2700K, 3000K, 3500K, 4000K, 5000K
- Passive thermal management achieves L70 at 50,000 hours in IC and non IC applications

Lumen Options

- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, lumens

Reflector

- Self-flanged aluminum reflectors are available in narrow, medium or wide distribution patterns
- Integral diffuse lens provides visual shielding
- Wall wash reflector features a rotatable linear spread lens for precise alignment of vertical illumination
- Reflector attaches to LED module with (3) speed clamps
- Multiple painted or plated finishes are available

Reflector / Module Retention

- Reflector / module assembly is securely retained in the housing with (2) torsion springs

Driver

- Field replaceable constant current driver
- UNV 120-277V input standard; continuous dimming 1%-100% with 0-10V analog controls.

Canada option

- 347VAC 50/60Hz • Continuous 1% to 100% dimming on 0-10V analog controls
- For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000 lumen models only

Electrical Connections

- Quick disconnect allows for tool-less replacement of LED engine from below
- (3) 4-port push wire nuts for mains voltage, with 1-port for fixture connection

Connected Lighting System

Refer to WaveLinx system specifications and application guides for details.

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 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.
- 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 / Canada C22.2 No. 250.0
- Surface mount:** suitable for damp and wet locations in covered ceilings only
- Pendant and aircraft cable mount:** suitable for damp locations in covered ceilings only
- Wall mount:** suitable for damp and wet locations
- Note:** Wet location models are IP65 rated (wet location and IP65 not applicable with wall wash reflector which is damp location)
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A 277V & Class B 120V
- Contains no mercury or lead and 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
- May be used to comply with State of California Title 24 non-residential code, as a dimmable LED luminaire
- ENERGY STAR® certified, refer to certified light fixture database

Warranty

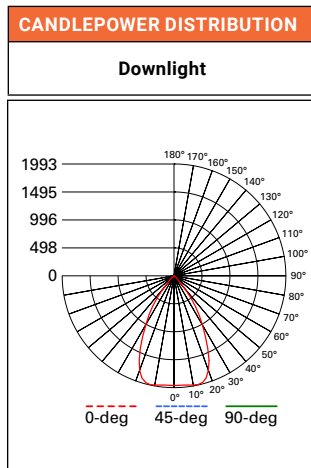
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Photometric Data



NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)	
Test Number	P581878
Housing	HC620D010 ⁽¹⁾
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7



CONE OF LIGHT			
MH	FC	L	W
5.5'	80.2	5	5
7'	49.5	6.4	6.4
8'	37.9	7.4	7.4
9'	30	8.2	8.2
10'	24.3	9.2	9.2
12'	16.9	11	11

CANDELA TABLE	
Degrees Vertical	Candela
0	2427
5	2422
15	2405
25	1621
35	761
45	118
55	12
65	3
75	2
85	0
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

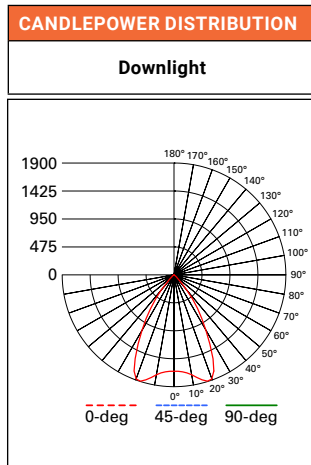
LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	9187
55	1118
65	376
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

1. Test with HC620D010 also applies to HCC620D010 using same reflector and LED module.

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)	
Test Number	P581875
Housing	HC620D010 ⁽¹⁾
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8



CONE OF LIGHT			
MH	FC	L	W
5.5'	68.7	5.6	5.6
7'	42.4	7.2	7.2
8'	32.5	8.2	8.2
9'	25.7	9.4	9.4
10'	20.8	10.4	10.4
12'	14.4	12.4	12.4

CANDELA TABLE	
Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1671	72.4
0-40	2163	93.8
0-60	2301	99.7
0-90	2307	100
90-180	0	0
0-180	2307	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

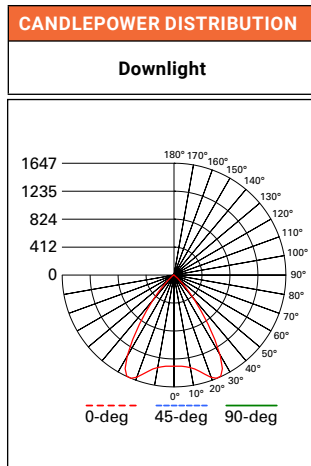
1. Test with HC620D010 also applies to HCC620D010 using same reflector and LED module.

Photometric Data



WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)	
Test Number	P581885
Housing	HC620D010 ⁽¹⁾
Module	HM60525835
Reflector	61WDC
Lumens	2359 Lm
Efficacy	118 Lm/W
SC	1.28
UGR	11.6



CONE OF LIGHT			
MH	FC	L	W
5.5'	50.5	7	7
7'	31.2	8.8	8.8
8'	23.9	10.2	10.2
9'	18.8	11.4	11.4
10'	15.3	12.8	12.8
12'	10.6	15.4	15.4

CANDELA TABLE	
Degrees Vertical	Candela
0	1526
5	1540
15	1685
25	1861
35	1027
45	252
55	32
65	6
75	2
85	0
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1461	61.9
0-40	2105	89.2
0-60	2351	99.6
0-90	2359	100
90-180	0	0
0-180	2359	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	19506
55	3078
65	765
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.

SC = Spacing Criteria

UGR = Unified Glare Rating

1. Test with HC620D010 also applies to HCC620D010 using same reflector and LED module.

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen	4000 Lumen	4500 Lumen	5000 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76	1.81	2.17	2.28

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

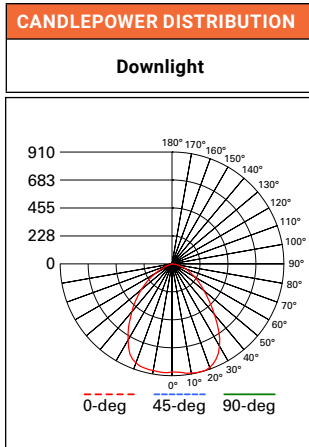
Multipliers for relative lumen values with other series color temperatures.

Photometric Data



WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P581882
Housing	HC620D010 ⁽¹⁾
Module	HM60525835
Reflector	61RWWC
Lumens	2179 Lm
Efficacy	109 Lm/W
SC	1.15



CANDELA TABLE	
Degrees Vertical	Candela
0	1080
5	1081
15	1112
25	1034
35	800
45	514
55	319
65	184
75	85
85	12
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	849	39
0-40	1313	60.2
0-60	1978	90.8
0-90	2179	100
90-180	0	0
0-180	2179	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	39810
55	30479
65	23907
75	17983
85	7359

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

1. Test with HC620D010 also applies to HCC620D010 using same reflector and LED module.

SINGLE UNIT FOOTCANDLES								
2.5' from wall (distance from fixture along wall)								
	1	2	3	4	5	6	7	8
1	19.3	13.8	6.1	2.2	0.7	0.3	0.1	
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6	
3	27.6	22.5	13.8	7.3	3.7	1.9	1	
4	21	18.2	12.4	7.4	4.2	2.4	1.4	
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6	
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6	
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5	
8	4.7	4.6	4.1	3.4	2.7	2	1.4	
9	3.4	3.3	3.1	2.7	2.2	1.7	1.3	
10	2.5	2.5	2.4	2.1	1.8	1.4	1.1	

MULTIPLE UNIT FOOTCANDLES								
2.5' from wall (Distance from fixture along wall)								
	1	2	3	4	5	6	7	8
1	21.5	19.1	21.5					
2	34.7	34.4	34.7					
3	34.9	36	34.9					
4	28.4	30.7	28.4					
5	21	23.2	21					
6	15.2	16.8	15.2					
7	11	12	11					
8	8.1	8.7	8.1					
9	6.1	6.5	6.1					
10	4.6	4.9	4.6					

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen	4000 Lumen	4500 Lumen	5000 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76	1.81	2.17	2.28

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

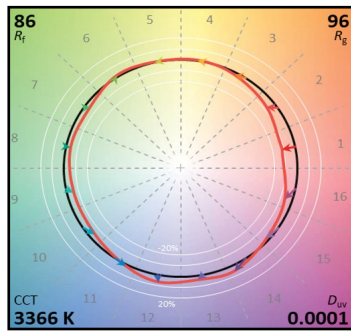
2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

Energy and Performance Data

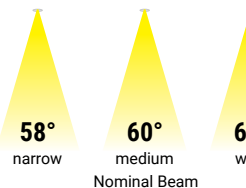
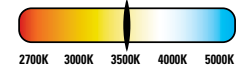
COLOR METRICS - TM-30-15 & CRI/CIE (3500K)

80 CRI Color Metric Summary - 3500K*

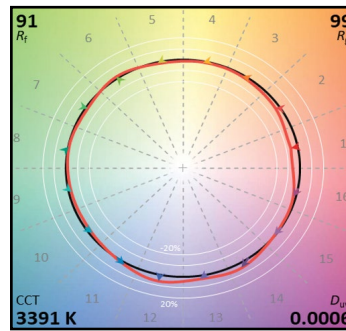


— Reference Illuminant — Test Source

TM-30-15	Rf = 86
	Rg = 95.5
CRI/CIE	Ra = 83.8
	R9 = 10.3

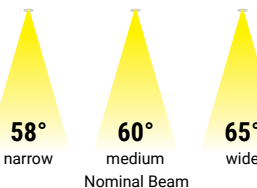
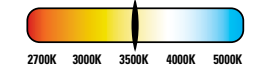


90 CRI Color Metric Summary - 3500K*



— Reference Illuminant — Test Source

TM-30-15	Rf = 91.1
	Rg = 99
CRI/CIE	Ra = 92.4
	R9 = 55.1



ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (μs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (μs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.419	0.186
Input Power (W)	50.1	49.5
In-rush (A)	3.1	15
Inrush duration (μs)	202	117
THD (%)	5.5	7.6
PF	≥ 0.99	≥ 0.96

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

Sound Rating: Class A standards

Connected Solutions



WaveLinX LITE Wireless Node - WLN

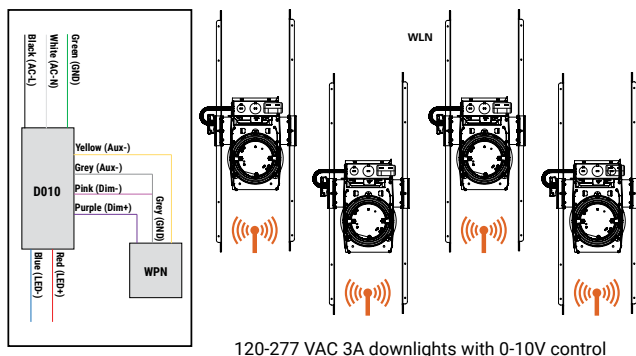
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- 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

WaveLinX mobile app settings



WaveLinX LITE Wireless Node (WLN) Wiring Diagram



WaveLinX LITE Bluetooth Enabled System

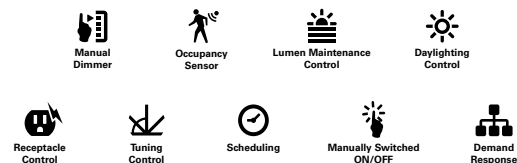


WaveLinX PRO Wireless Node - WPN

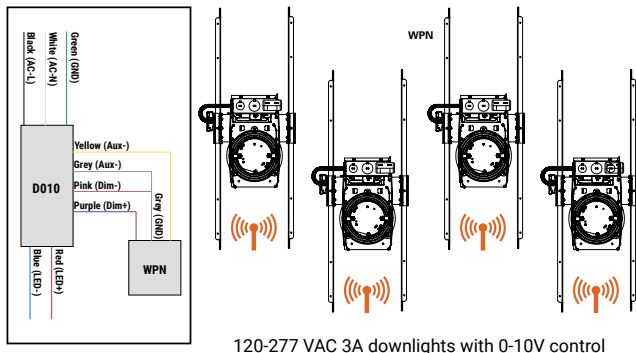
WaveLinX PRO devices only compatible with the WaveLinX PRO system.

- 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

WaveLinX mobile app settings



WaveLinX PRO Wireless Node (WPN) Wiring Diagram



WaveLinX CORE Building Management Integration

