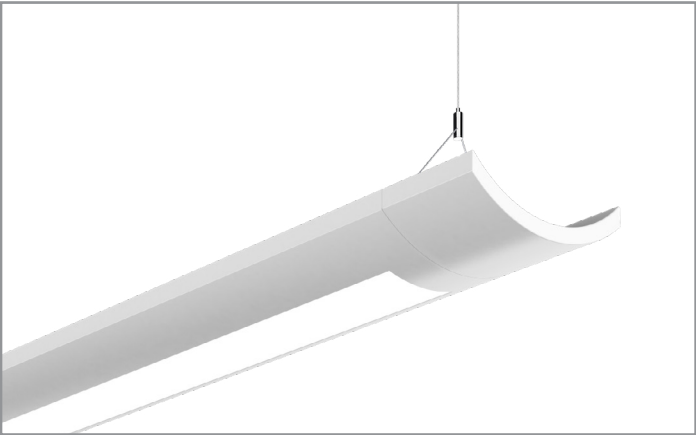| Project		Catalog #		Type	
Prepared by		Notes		Date	

Corelite

Iridium i3

LED
Suspended
Direct / Indirect

Typical Applications

• Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Photometric Data page 3
- Energy and Performance Data page 3
- Control Systems page 5
- Product Warranty

Product Certification

UL CERTIFIED SAFETY

Efficiency Standards
T24 California Title 24 Non-Residential Compliant

RoHS COMPLIANT

Product Features

Connected Systems

VividTune color tuning solutions

damp location
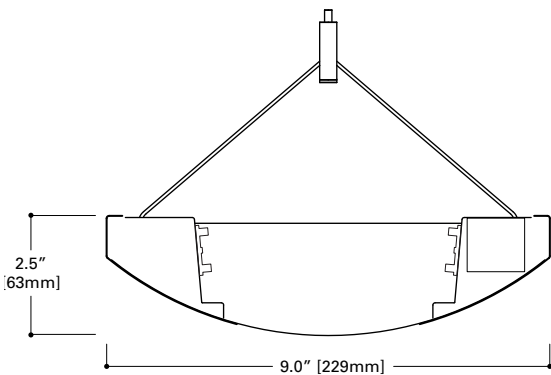
powered by fifthlight technology

Top Product Features

- Timeless curvilinear low profile design
- Wide array of direct/indirect distributions
- Efficacy up to 158 lumens per watt
- Available in 4', 8', and Continuous runs
- White tuning solutions available, either 3000K - 5000K or 2700K - 6500K

Dimensions

2.5″ [63mm]

9.0″ [229mm]

I3-WL

2.5″ [63mm]

9.0″ [229mm]
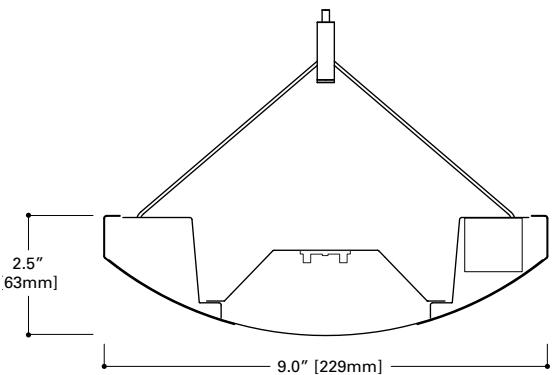
I3-UL/CL/FL

additional product diagrams

COOPER Lighting Solutions

Order Information

SAMPLE ORDER NUMBER: **I3-CL-40L835-1D-UNV-STD-WAA-W-ES-AC48-T1-32**

Series	Indirect Shielding	Direct Shielding	Lumen Package Nominal per 4' section	CRI	Color Temperature	Circuiting	Additional Section Wiring	Voltage
Series	**Indirect Shielding**	**Direct Shielding**	**Lumen Package Nominal per 4' section**	**CRI**	**Color Temperature**	**Circuiting**	**Additional Section Wiring**	**Voltage**
i3=Iridium i3 Suspended Direct/Indirect	**U**=Open Top (80% Up / 20% Dn) **C**=Clear Top Cover (75% Up / 25% Dn) **F**=Frosted Top Cover (65% Up / 35% Dn) **W**=Downlight Tray (20% Up / 80% Dn)	**L**=Frosted Smooth Lens	**20L**=2,000 Lms (500 lms/ft) **30L**=3,000 Lms (750 lms/ft) **40L**=4,000 Lms (1,000 lms/ft) **50L**=5,000 Lms (1,250 lms/ft) **60L**=6,000 Lms (1,500 lms/ft) **80L**=8,000 Lms (2,000 lms/ft)	**8**=80+CRI **9**=90+CRI	**30**=3000K, 80CRI **35**=3500K, 80CRI **40**=4000K, 80CRI **3050**=White Tuning 3000K-5000K **2765**=White Tuning 2700K-6500K	**1**=Single Circuit	**D**=None (Default Dimming) **E**=Emergency Circuit **S**=Secondary Circuit **N**=Secondary + Emergency Circuit	**UNV**=Universal (120V-277V) **347**=347V
			Notes Custom lumen output available. 60L and 80L not available with WL shielding option.	**Notes** Tunable White options to be used with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. Not compatible with other control or sensor options.	**Notes**	**Notes** Refers to wiring in cross section.	**Notes** Select "D" wiring for individual fixtures. Secondary circuit not available with integrated sensor options.	**Notes** Integral 347V driver with STD 0-10V option only. Factory supplied 347V remote transformer for all other driver options

Driver/Dimming Options	Integrated Sensing Systems	Integral Emergency Devices	Finish	End Cap	Suspension Type	Ceiling Type	Run Length
Driver/Dimming Options	**Integrated Sensing Systems**	**Integral Emergency Devices**	**Finish**	**End Cap**	**Suspension Type**	**Ceiling Type**	**Run Length**
STD=Standard 0-10V (1%-100%) **SR**=Sensor Ready (1%-100%) **5LT**=Fifth Light DALI (1%-100%) **LH**=Lutron HiLume 1% EcoSystems (LDE1) **W2A**=White Tuning, 2ch, 0-10V Intensity and CCT Control	**WAA**=WaveLinx Wireless Integrated Sensor **WAB**=WaveLinx Lite Wireless Integrated Sensor **LWIPD1**=Enlighted Wireless Integrated Sensor	**B06**= 6-watt, 120V-277V Emergency Battery Pack **B10**= 10-watt, 120V-277V Emergency Battery Pack **EPC**= LVS Controls UL924 Bypass Relay	**W**=White **S**=Silver **B**=Black **CC**=Custom Color	**ES**=Straight End Cap **EB**=Beveled End Cap	**AC48**=48" Aircraft cable **AC120**=120" Aircraft cable **AC240**=240" Aircraft cable	**T1**=15/16" T-Bar **T9**=9/16" T-Bar **TS**=Slotted T-Bar **JB**=Junction Box / Structure **UM**=Universal Ceiling Kit (T1, T9, JB) **_S**=Swivel at Canopy (_ = T1, T9, TS or JB)	**4**=4 ft **8**=8 ft **XX**=Specify Run Length
Notes One driver per 4' section unless otherwise noted.	**Notes** WAA and WAB sensor must be used with "STD" driver. LWI sensor must be used with "SR" driver. Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency section.	**Notes** EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).			**Notes** Suspension length available up to 360". White mounting hardware standard; for black mounting hardware, add "-B" after ceiling type.		**Notes** See 'Standard Row Configurations' table on Page 4 for continuous row length breakdowns.

Product Specifications

Construction
- Low profile curvilinear 2.5" x 9" housing
- Die-formed 20 gauge cold rolled steel
- Driver accessible from above while fixture is suspended

End Caps
- Die cast aluminum end caps
- Standard straight or beveled endcaps
- Attach mechanically to the end of the fixture without exposed fasteners
- Standard end cap adds 5" at each end. Beveled end cap adds 2" at each end.

Lengths
- Available in 4-ft and 8-ft sections
- Modular design eliminates the need for starter, intermediate, and end of run sections
- See table on page 4 for standard continuous row length breakdowns

Finish
- Electrostatically applied polyester powder coat paint
- White, Silver, or Black finish standard
- RAL custom colors are available

Mounting
- Aircraft cable mounts on 4'-0" and 8'-0" centers, equal to the respective unit length
- Fixture is balanced with cross cable for minimal leveling and simple installation

- Minimum suspension height from ceiling to top of fixture is 8".
- All sections are continuously wired with push-in connectors for fast installation
- Fixtures can be joined for straight continuous runs
- Refer to installation instructions for various ceiling interface details

Shielding / Optics
- Bottom lens is a high light transmission 0.08" thick frosted smooth acrylic
- Optional top cover optics allow light distribution adjustment
- Top optics are 0.06" thick acrylic and do not protrude above fixture housing

LED and Light Engine
- LED's are available in 3000K, 3500K, 4000K at 80 CRI or 90 CRI minimum
- Lumen output will be affected - please refer to the lumen adjustment factor tables
- TM21 life at 60,000 hours up to L93 and calculated L70 exceeds 331,000 hrs.
- Drivers available in 120-277V and 347V
- White Tuning options available with Cooper Lighting Solutions' VividTune

Integrated Controls
- 0-10V dimming to 1% standard
- WaveLinx sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- WaveLinx Lite sensor compatible for out-of-the-box

functionality
- DALI 2.0 and Lutron dimming available

Emergency Options
- Optional 12-watt 120-277V emergency battery illuminates a 4 ft. down-light section
- 90-minute backup period for code compliance
- Test switch/indicator button located on the top side of the luminaire
- For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 12 = 1200 lumens)
- UL 924 emergency/generator transfer options available
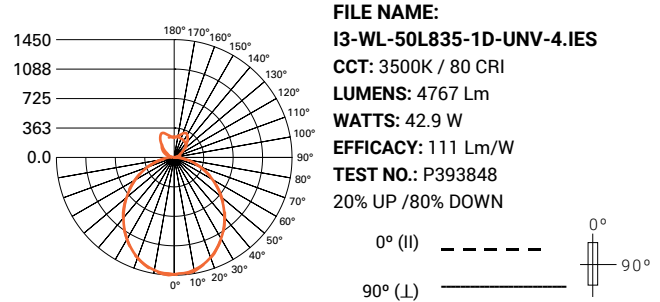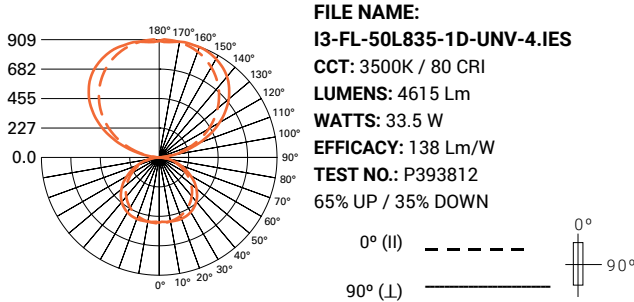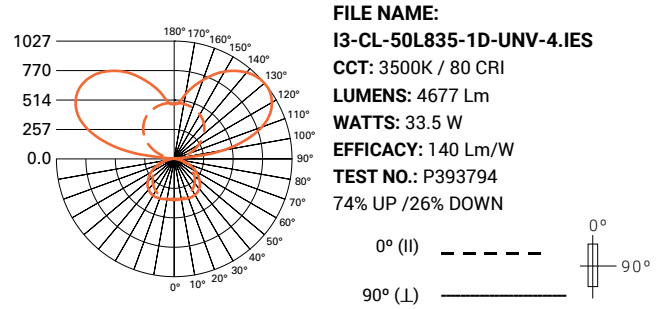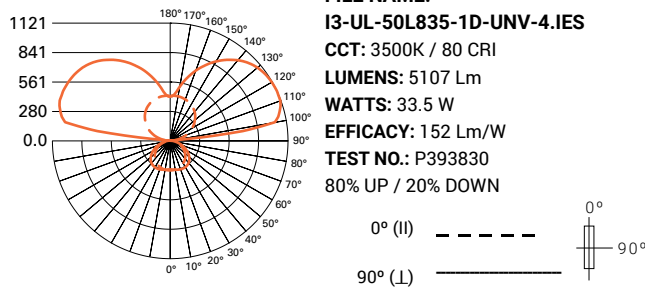
Weight
- 4.0 lbs. per foot

Compliance
- cULus listed for damp locations, 25°C ambient environments
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

Warranty
- Five-year warranty standard. Optional ten year warranty available. www.cooperlighting.com/legal

Photometric Data

FILE NAME:
I3-UL-50L835-1D-UNV-4.IES
CCT: 3500K / 80 CRI
LUMENS: 5107 Lm
WATTS: 33.5 W
EFFICACY: 152 Lm/W
TEST NO.: P393830
80% UP / 20% DOWN

0° (∥) – – – –
90° (⊥) ———————

FILE NAME:
I3-CL-50L835-1D-UNV-4.IES
CCT: 3500K / 80 CRI
LUMENS: 4677 Lm
WATTS: 33.5 W
EFFICACY: 140 Lm/W
TEST NO.: P393794
74% UP /26% DOWN

0° (∥) – – – –
90° (⊥) ———————

FILE NAME:
I3-FL-50L835-1D-UNV-4.IES
CCT: 3500K / 80 CRI
LUMENS: 4615 Lm
WATTS: 33.5 W
EFFICACY: 138 Lm/W
TEST NO.: P393812
65% UP / 35% DOWN

0° (∥) – – – –
90° (⊥) ———————

FILE NAME:
I3-WL-50L835-1D-UNV-4.IES
CCT: 3500K / 80 CRI
LUMENS: 4767 Lm
WATTS: 42.9 W
EFFICACY: 111 Lm/W
TEST NO.: P393848
20% UP /80% DOWN

0° (∥) – – – –
90° (⊥) ———————

Note: Refer to IES files for more product data.

Energy and Performance Data

Iridium i3 LED Light Level Outputs and Distributions (3500K)								
Series / Distribution	**Lumen Package**	**Delivered Lumens**		**Wattage**		**Efficacy LPW**	**Distribution**	
		4FT	**Per FT**	**4FT**	**Per FT**		**%Up**	**% Down**
i3-UL	20L	1988	497	12.8	3.2	155	80%	20%
	30L	3111	778	19.7	4.9	158		
	40L	4058	1015	27.9	7.0	145		
	50L	5107	1277	33.5	8.4	152		
	60L	6141	1535	41.3	10.3	149		
	80L	8002	2001	57.2	14.3	140		
i3-CL	20L	1821	455	12.8	3.2	142	75%	25%
	30L	2849	712	19.7	4.9	145		
	40L	3716	929	27.9	7.0	133		
	50L	4677	1169	33.5	8.4	140		
	60L	5624	1406	41.3	10.3	136		
	80L	7329	1832	57.2	14.3	128		
i3-FL	20L	1796	449	12.8	3.2	140	65%	35%
	30L	2811	703	19.7	4.9	143		
	40L	3667	917	27.9	7.0	131		
	50L	4615	1154	33.5	8.4	138		
	60L	5550	1388	41.3	10.3	134		
	80L	7232	1808	57.2	14.3	126		
i3-WL	20L	1900	475	14.9	3.7	128	20%	80%
	30L	2894	724	23.1	5.8	125		
	40L	3916	979	34.7	8.7	113		
	50L	4767	1192	42.9	10.7	111		

Lumen Adjustment Factors

CCT Multiplier	80 CRI	90 CRI
3000K	0.961	0.830
3500K	1.000	0.861
4000K	1.019	0.883

Example Calculation:
I3-UL-40L / 3500K / 80 CRI
Lumen Output selected = 1015 lms/ft

3500K / 90 CRI Desired
Lumen Adjustment Factor = 0.861

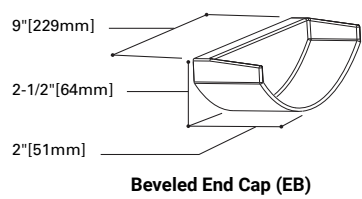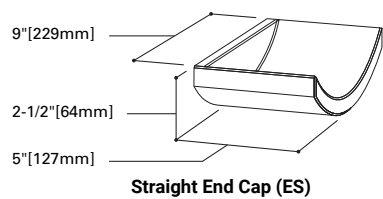Adjusted Lumen Output = 1015 lms/ft x 0.861 = 874 lms/ft

Nominal Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>93%	331,000

Notes: (1) Theoretical values represent estimations. Refer to LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.
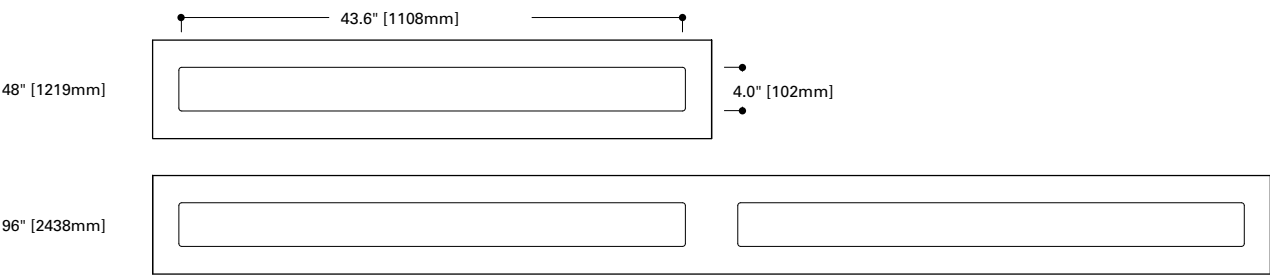
Color Data (3500K)

		80CRI	90CRI
TM-30-15	R_f	82.5	92.4
	R_g	96.0	100.6
CRI/CIE	R_a	83.1	96.1
	R_9	14.0	72.1

End Cap Dimensions

9"[229mm]
2-1/2"[64mm]
5"[127mm]

Straight End Cap (ES)

9"[229mm]
2-1/2"[64mm]
2"[51mm]

Beveled End Cap (EB)

Fixture Lengths

43.6" [1108mm]

48" [1219mm]

4.0" [102mm]

96" [2438mm]

Standard Row Configurations

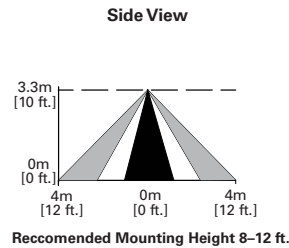| Fixture Length	4'	8'	12'	16'	20'	24'	28'	32'	36'	40'	44'	48'	52'	56'	60'	64'	68'	72'	76'	80'	84'	88'	92'	96'	100'
4'	1		1		1		1		1		1		1		1		1		1		1		1		1
8'		1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12

🚀 Control Systems
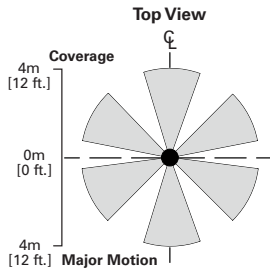
- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune

Connected Systems CLICK HERE

The Iridium i3 with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Iridium i3 delivers superior lighting with integrated occupancy and daylighting controls. For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed. When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings. The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

For additional information integrated sensors and connected lighting, please visit Cooper Lighting Solutions' Connected Lighting Website

Top View

Coverage
4m [12 ft.]
0m [0 ft.]
4m [12 ft.] Major Motion

Side View

3.3m [10 ft.]
0m [0 ft.]
4m [12 ft.]   0m [0 ft.]   4m [12 ft.]

Reccomended Mounting Height 8–12 ft.

Sensor Integration

Integrated sensors are located in the middle of each 8' section and on the end of 4' sections for individual and continuous runs. Each section can be individually controllable or grouped together with the integrated sensors.

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.

	Standalone	Controlled WaveLinx Lite	Connected WaveLinx Wireless	Enterprise Trellix
Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Gateways	–	–	1 WAC	300 WACs
Devices	–	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
Software	–	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
Areas	–	28 per Site	16 per WAC	up to 4,800
Zones	–	16 per Area	16 per Area	up to 76,800
Scheduling	–	–	Local	Global
VividTune™	–	–	Yes	Yes
Plug-Load Control	–	–	Yes	Yes
Integration	–	–	–	BACnet, API
Dashboards	–	–	–	Energy, Occupancy
Configuration	–	Installer	Technician	Technician / IT

SCALABILITY

devices → areas → floors → buildings

COOPER Lighting Solutions

VividTune
color tuning solutions

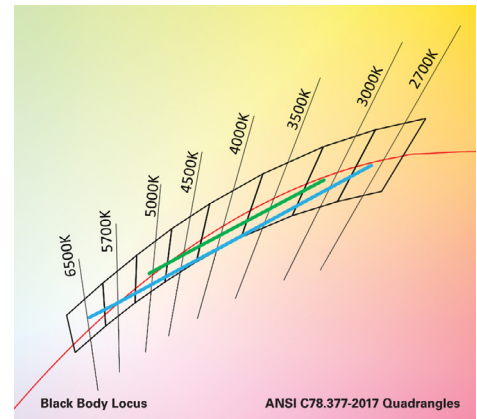### Iridium with VividTune Tunable White

VividTune tunable white luminaires from Cooper Lighting Solutions deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.

Black Body Locus   ANSI C78.377-2017 Quadrangles

— 3000K - 5000K
— 2700K - 6500K

Performance Data

Tunable White - i3 LED Light Level Outputs (83050 tuned to 3500K)						
Series	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW
		4FT	Per FT	4FT	Per FT	
i3-UL	20L	2357	589	16.2	4.1	146
	30L	3031	758	20.7	5.2	146
	40L	4038	1009	27.9	7.0	145
	50L	5042	1260	35.5	8.9	142
	60L	6073	1518	44.1	11.0	138
	80L	8033	2008	62.3	15.6	129
i3-CL	20L	2160	540	16.2	4.1	133
	30L	2776	694	20.7	5.2	134
	40L	3698	924	27.9	7.0	133
	50L	4617	1154	35.5	8.9	130
	60L	5561	1390	44.1	11.0	126
	80L	7357	1839	62.3	15.6	118
i3-FL	20L	2129	532	16.2	4.1	131
	30L	2739	685	20.7	5.2	132
	40L	3649	912	27.9	7.0	131
	50L	4555	1139	35.5	8.9	128
	60L	5488	1372	44.1	11.0	124
	80L	7260	1815	62.3	15.6	117
i3-WL	20L	1963	491	17	4.3	115
	30L	2857	714	25.8	6.5	111
	40L	3805	951	46.7	9.2	104
	50L	4813	1203	50.7	12.7	95

Tunable White - Lumen Adjustment Factors				
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.918	0.784
3000K	0.946	0.778	0.944	0.815
3500K	1.000	0.850	0.977	0.856
4000K	1.053	0.919	0.998	0.883
4500K	1.062	0.934	1.016	0.916
5000K	1.052	0.934	1.030	0.924
6500K	-	-	1.045	0.949

Example of Lumen Adjustment Calculation

I3-UL-40L93050 ...
at 90 CRI tuned to 4000K

Lumen Adjustment Factor = 0.919

Light Output Per Foot=
1009 lm/ft x 0.919 = 927 lm/ft

$$Efficacy = \frac{927\ lm}{7.0\ W} = 132\ lm/W$$

Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V dimming input is used to adjust CCT. For suggested control configurations, go to www.cooperlighting.com for tunable white application guides.

warm 2700K   CCT 0-10V   cool 6500K

10%   Intensity 0-10V   100%

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