



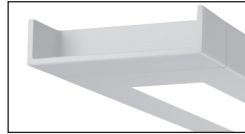
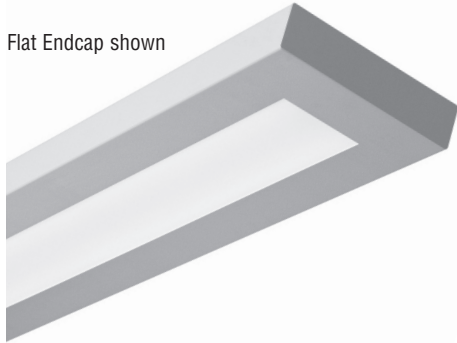
Date

Project

Type

Comments

Flat Endcap shown



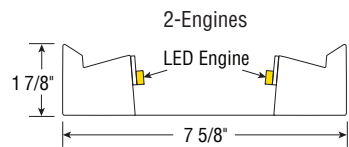
Extended Endcap

Signal White is standard finish

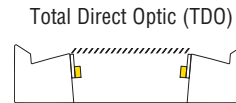
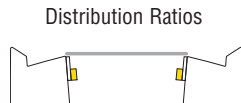
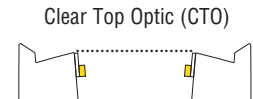
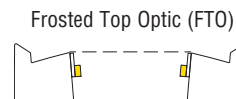
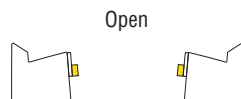
### DESCRIPTION

Series 16 LED is a low profile rectilinear form scaled to blend into any interior architecture and is available with three light engine models - 2E, 3E, and 4E. The luminaire uses mid-power LEDs for long life and enhanced performance. This Product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving Red List Approved and Declared status.

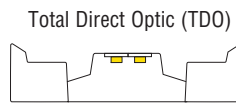
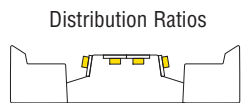
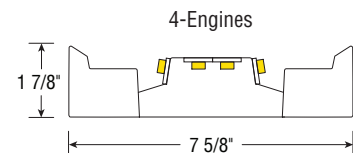
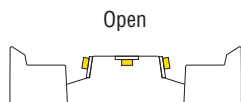
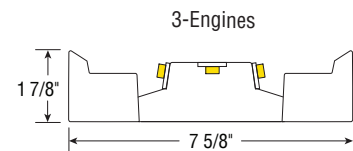
### LIGHT ENGINES



### OPTIC & DISTRIBUTION RATIO OPTIONS



10% ↑ / 90% ↓    30% ↑ / 70% ↓  
20% ↑ / 80% ↓    40% ↑ / 60% ↓



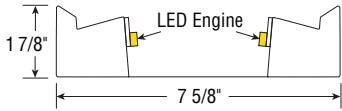
10% ↑ / 90% ↓    30% ↑ / 70% ↓  
20% ↑ / 80% ↓    40% ↑ / 60% ↓

Available with factory presets in 3000, 4000, and 5000 lumens.

**2E FEATURES**

Date

**DIMENSIONS & LIGHT ENGINES**

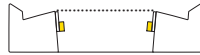


**OPTIC OPTIONS**

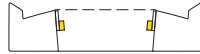
Open



Clear Top Optic (CTO)

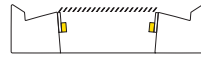


Frosted Top Optic (FTO)



**DISTRIBUTION RATIO OPTIONS**

Total Direct Optic (TDO)



10U90D - 10% ↑ / 90% ↓  
(includes CTO standard)

20U80D - 20% ↑ / 80% ↓  
(includes FTO standard)

30U70D - 30% ↑ / 70% ↓  
(includes FTO standard)

40U60D - 40% ↑ / 60% ↓  
(includes FTO standard)

Project

Type

Comments

**ORDERING GUIDE:**

Sample Number: S16 LED ID - DCO - 8' - 2E - S - 835 - 20U80D - 120V - FC-10% - SC - FA - FE - SW - C1 - OBO - CP - RLA

Series 16 LED ID																			
Finelite <b>Series 16 LED ID</b> <sup>1</sup>																			
Shielding ( <b>DCO</b> , <b>WCB</b> )																			
Length ( <b>4'</b> , <b>8'</b> , multiples standard)																			
Light Engine System ( <b>2E</b> - 2 Light Engines)																			
Light Output ( <b>S</b> - Standard, <b>B</b> - Boosted Standard, <b>H</b> - High, <b>V</b> - Very High)																			
LED CRI/CCT ( <b>830</b> - 80 CRI min, 3000K; <b>835</b> - 80 CRI min, 3500K; <b>840</b> - 80 CRI min, 4000K; <b>930</b> - 90 CRI min, 3000K; <b>935</b> - 90 CRI min, 3500K; <b>940</b> - 90 CRI min, 4000K)																			
Optic or Distribution Ratio ( <b>OPEN</b> - standard, <b>FTO</b> - Frosted Top Optic, <b>CTO</b> - Clear Top Optic, <b>TDO</b> - Total Direct Optic, <b>10U90D</b> - 10% up / 90% down, <b>20U80D</b> - 20% up / 80% down, <b>30U70D</b> - 30% up / 70% down, <b>40U60D</b> - 40% up / 60% down)																			
Voltage ( <b>120V</b> , <b>277V</b> )																			
Driver ( <b>FC-10%</b> - 0-10V 10% (standard), <b>FC-1%</b> - 0-10V 1%)																			
Circuiting ( <b>SC</b> - Single Circuit) <sup>2</sup>																			
Mounting ( <b>FA</b> - Fully Adjustable (standard), <b>AC</b> - semi-adjustable)																			
Endcap ( <b>FE</b> - Flat Endcap (standard), <b>EE</b> - Extended Endcap)																			
Finish ( <b>SW</b> - Signal White (standard), <b>FB</b> - Finelite Blakc, <b>SA</b> - Satin Aluminum, ##### - RAL Color Code <sup>3</sup> )																			
Ceiling Type ( <b>C1</b> - 15/16" T-Bar, <b>C2</b> - 9/16" T-Bar, <b>C3</b> - Slot Grid, <b>C1T</b> - 15/16" Tegular, <b>C2T</b> - 9/16" Tegular, <b>C4</b> - Hard Ceiling)																			
Integrated Sensors ( <b>OBO</b> - Occupancy, <b>OBD</b> - Daylight, <b>W601</b> - Wattstopper Wireless Sensor <sup>4</sup> , <b>OBE</b> - Enlighted <sup>5</sup> , <b>CLM</b> - Encelium Sensor, <b>RE7</b> - nLight Air Sensor, <b>AOCC-W</b> - Lutron Athena Sensor (Device Color White) <sup>6</sup> , <b>AOCC-B</b> - Lutron Athena Sensor (Device Color Black) <sup>6</sup> , <b>ARF-W</b> - Lutron Athena RF (Device Color White) <sup>6</sup> , <b>ARF-B</b> - Lutron Athena RF (Device Color Black) <sup>6</sup> )																			
Special Options ( <b>CP</b> - Chicago Plenum, <b>RLA</b> - Red List Approved, <b>RLD</b> - Declared Label)																			

<sup>1</sup> Indirect luminaires available on 2E.

<sup>2</sup> Contact factory for switching options.

<sup>3</sup> 20 business days lead time for color

<sup>4</sup> LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected / LMFS-601 w/ DALI driver, only 1 driver can be connected.

<sup>5</sup> Enlighted components installed by Finelite, provided by others

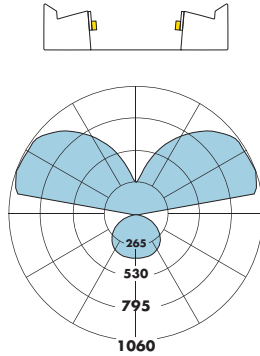
<sup>6</sup> 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected / DALI Drivers - AOCC & ARF up to 4 drivers can be connected.

**2E OPEN AND FTO PHOTOMETRY - 4 ft. Luminaire**

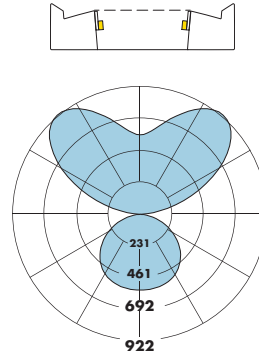
Series 16-LED-ID-DCO-2E-V-835-OPEN  
Distribution: 76% up / 24% down  
Efficacy: 127 lumens per watt  
Total Luminaire Output: 4722 lumens (1181 lumens/foot)  
37.3 watts (9.3 watts/foot)  
ITL LM79 Report 85120

Series 16-LED-ID-DCO-2E-V-835-FTO\*  
Distribution: 63% up / 37% down  
Efficacy: 119 lumens per watt  
Total Luminaire Output: 4442 lumens (1111 lumens/foot)  
37.3 watts (9.3 watts/foot)  
ITL LM79 Report 85121

2E OPEN - REPORT 85120



2E FTO\* - REPORT 85121



\*For applications where a soft beam edge on wall or vertical surface is desired.

Refer to LM-79 reports for candlepower summaries

**2E OPEN AND FTO**

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	S*	B*	H*	V**
OPEN	1933	2430	3673	4722
FTO	1818	2286	3455	4442

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	S*	B*	H*	V**
OPEN	483	608	918	1181
FTO	455	571	864	1111

Power (Watts Per Foot)				
	S*	B*	H*	V**
OPEN	3.5	4.6	6.9	9.1
FTO	3.5	4.6	6.9	9.1

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	S*	B*	H*	V**
OPEN	138	132	133	130
FTO	130	124	125	122

\* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.  
\*\* Based on ITL reports above.  
S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

**SAMPLE LUMEN ADJUSTMENT CALCULATION**  
High Output (H), Open, 4000K, 90 CRI

$$\text{Lumen Adjustment Factor} = 0.789$$

$$\text{Total Light Output} = 3673 \text{ lm} \times 0.789 = 2898 \text{ lm}$$

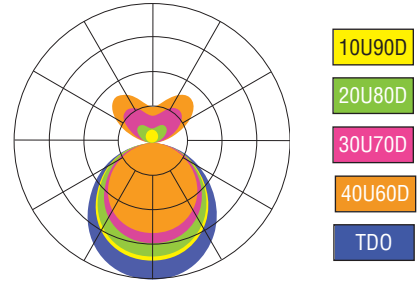
$$\text{Total Light Output per Foot} = 918 \text{ lm/ft} \times 0.789 = 724 \text{ lm/ft}$$

$$\text{watts/foot} = 6.9 \text{ W/ft}$$

$$\text{Efficacy} = \frac{724 \frac{\text{lm}}{\text{ft}}}{6.9 \frac{\text{W}}{\text{ft}}} = 105 \text{ lm/W}$$

## 2E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

<p>Series 16-LED-ID-DCO-2E-V-835-10U90D Efficacy: 84 lumens per watt Total Luminaire Output: 3138 lumens (785 lm/ft) 37.2 watts (9.3 W/ft) ITL LM79 Report 87819</p>	<p>Series 16-LED-ID-DCO-2E-V-835-30U70D Efficacy: 94 lumens per watt Total Luminaire Output: 3506 lumens (877 lm/ft) 37.2 watts (9.3 W/ft) ITL LM79 Report 87821</p>	<p>Series 16-LED-ID-DCO-2E-V-835-TDO Efficacy: 88 lumens per watt Total Luminaire Output: 3261 lumens (815 lm/ft) 37.2 watts (9.3 W/ft) ITL LM79 Report 87823</p>
<p>Series 16-LED-ID-DCO-2E-V-835-20U80D Efficacy: 85 lumens per watt Total Luminaire Output: 3291 lumens (823 lm/ft) 37.2 watts (9.3 W/ft) ITL LM79 Report 87820</p>	<p>Series 16-LED-ID-DCO-2E-V-835-40U60D Efficacy: 99 lumens per watt Total Luminaire Output: 3675 lumens (919 lm/ft) 37.2 watts (9.3 W/ft) ITL LM79 Report 87822</p>	



Refer to LM-79 reports for candlepower summaries



## 2E DISTRIBUTION RATIOS

↑ Indirect    ↓ Direct

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	S*	B*	H*	V**
10U90D	1285 [±10%   90%↓]	1615 [±10%   90%↓]	2441 [±10%   90%↓]	3138 [±10%   90%↓]
20U80D	1347 [±17%   83%↓]	1694 [±17%   83%↓]	2560 [±17%   83%↓]	3291 [±17%   83%↓]
30U70D	1435 [±30%   70%↓]	1804 [±30%   70%↓]	2727 [±30%   70%↓]	3506 [±30%   70%↓]
40U60D	1504 [±40%   60%↓]	1891 [±40%   60%↓]	2858 [±40%   60%↓]	3675 [±40%   60%↓]
TDO	1335 [±0%   100%↓]	1678 [±0%   100%↓]	2536 [±0%   100%↓]	3261 [±0%   100%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	S*	B*	H*	V**
10U90D	321	404	610	785
20U80D	337	423	640	823
30U70D	359	451	682	877
40U60D	376	473	715	919
TDO	334	420	634	815

Power (Watts Per Foot)				
	S*	B*	H*	V**
10U90D	3.5	4.6	6.9	9.1
20U80D	3.5	4.6	6.9	9.1
30U70D	3.5	4.6	6.9	9.1
40U60D	3.5	4.6	6.9	9.1
TDO	3.5	4.6	6.9	9.1

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	S*	B*	H*	V**
10U90D	92	88	88	86
20U80D	96	92	93	90
30U70D	103	98	99	96
40U60D	107	103	104	101
TDO	95	91	92	90

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

### SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 20U80D, 4000K, 90 CRI

$$\text{Lumen Adjustment Factor} = 0.789$$

$$\text{Total Light Output} =$$

$$2560 \text{ lm} \times 0.789 = 2020 \text{ lm}$$

$$\text{Total Light Output per Foot} =$$

$$640 \text{ lm/ft} \times 0.789 = 505 \text{ lm/ft}$$

$$\text{watts/foot} = 6.9 \text{ W/ft}$$

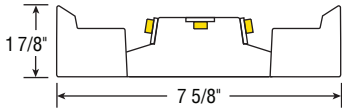
$$\text{Efficacy} = \frac{505 \frac{\text{lm}}{\text{ft}}}{6.9 \frac{\text{W}}{\text{ft}}} = 73 \text{ lm/W}$$

\* Family Correlation based on 3E 4 ft. Luminaire 3500K Very High Output (V) test - 120V.

**S - Standard Output, B - Boosted Standard Output, H - High Output**

## 3E FEATURES

### DIMENSIONS & LIGHT ENGINES

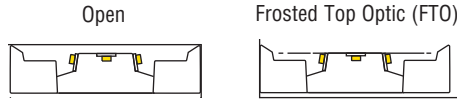


### DIMMING



The uplight and downlight can be dimmed together or separately. 0-10V controls with a range of 10-100%. Dimming to 1% available.

### OPTIC OPTIONS



### LUMEN PACKAGES

Available in four outputs.

- Standard Output
- Boosted Output
- High Output
- Very High Output

Date

Project

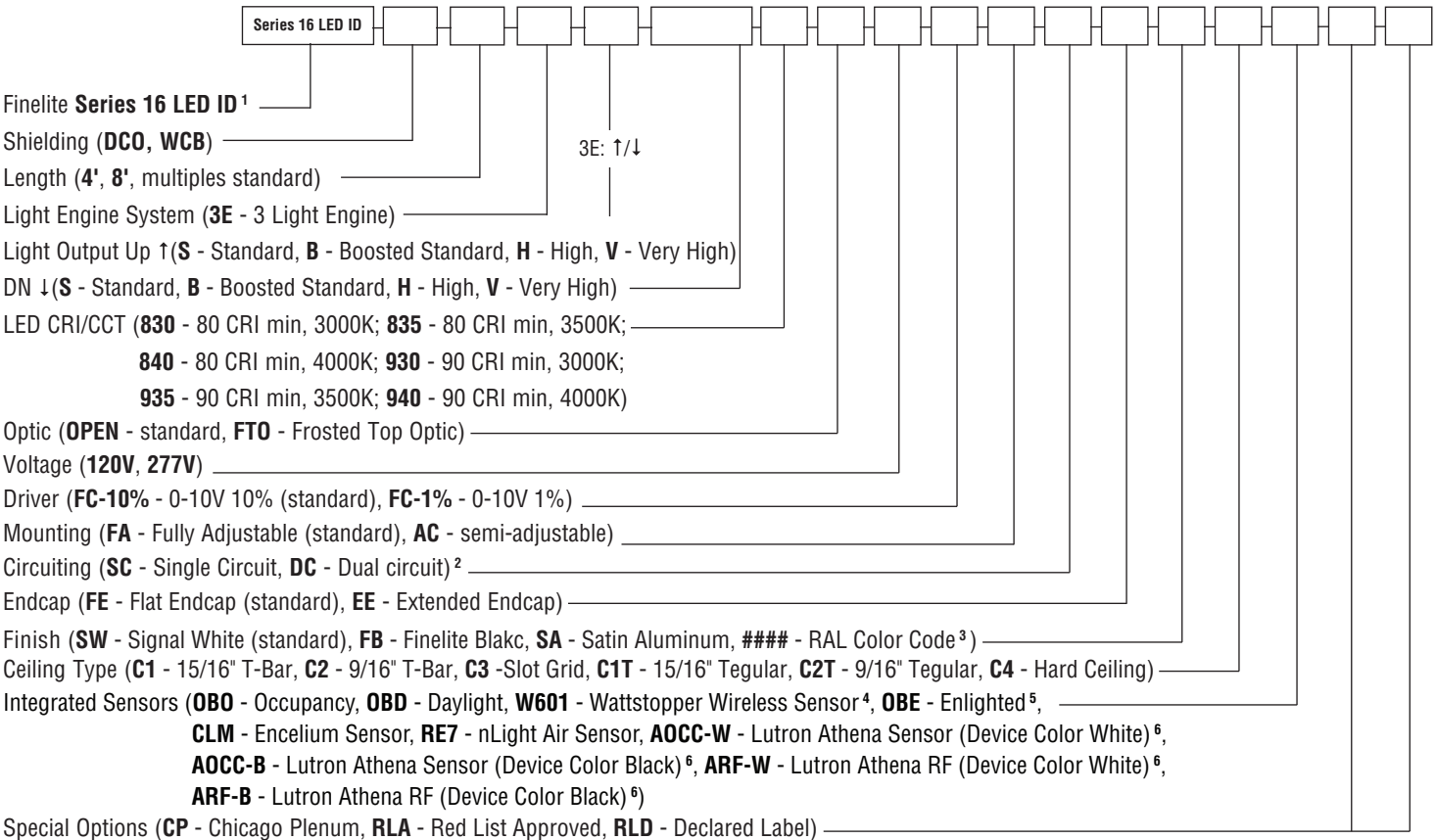
Type

Type

Comments

### ORDERING GUIDE:

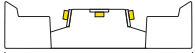
Sample Number: S16 LED ID - DCO - 8' - 3E - S/B - 835 - OPEN - 120V - FC-10% - SC - FA - FE - SW - C1 - OBO - CP - RLA



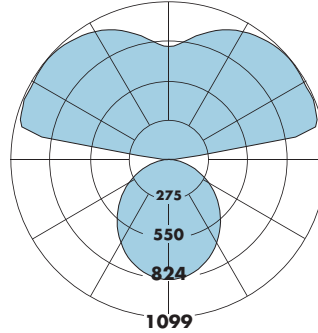
¹ Indirect luminaires available on 2E.  
² Contact factory for switching options.  
³ 20 business days lead time for color  
⁴ LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected / LMFS-601 w/ DALI driver, only 1 driver can be connected.  
⁵ Enlighted components installed by Finelite, provided by others  
⁶ 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected / DALI Drivers - AOCC & ARF up to 4 drivers can be connected.

© 2024 FINELITE, INC. ALL RIGHTS RESERVED. CT10170 V16. EFFECTIVE DATE: 04/24

**3E OPEN PHOTOMETRY - 4 ft. Luminaire**



Series16-LED-ID-DCO-3E-V-V-835-OPEN  
 Distribution: 67% Up / 33% Down  
 Efficacy: 117 Lumens per watt  
 Total Luminaire Output: 6657 lumens (1664 lumens/foot)  
 56.8 watts (14.2 watts/foot)  
 CCT: 3500K  
 ITL LM79 Report 85122



CANDLEPOWER SUMMARY						
	0	22.5	45.0	67.5	90.0	Flux
0	839	839	839	839	839	
5	835	834	834	835	834	79
15	800	795	798	798	794	224
25	728	720	723	722	719	332
35	629	623	624	620	618	389
45	515	510	510	505	503	393
55	394	389	387	383	383	346
65	266	263	261	257	257	258
75	138	137	135	134	133	144
85	30	31	31	31	31	36
90	0	0	0	0	0	
95	46	271	139	80	76	236
105	202	408	779	1000	1075	740
115	351	528	833	1021	1091	770
125	479	630	884	1045	1097	749
135	583	709	912	1046	1090	677
145	667	761	920	1023	1056	559
155	728	788	899	976	999	408
165	768	793	850	893	907	240
175	786	789	797	807	809	77
180	789	789	789	789	789	

**3E OPEN**

↑ Indirect	↓ Direct
------------	----------

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	↑S*	↑B*	↑H*	↑V**
↓S*	2725 [↑67%   33%↓]	3194 [↑72%   28%↓]	4366 [↑79%   21%↓]	5356 [↑83%   17%↓]
↓B*	2957 [↑62%   38%↓]	3426 [↑67%   33%↓]	4598 [↑75%   25%↓]	5588 [↑80%   20%↓]
↓H*	3536 [↑52%   48%↓]	4005 [↑57%   43%↓]	5178 [↑67%   33%↓]	6168 [↑72%   28%↓]
↓V*	4026 [↑45%   55%↓]	4495 [↑51%   49%↓]	5667 [↑61%   39%↓]	6657 [↑67%   33%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	681	799	1092	1339
↓B*	739	856	1150	1397
↓H*	884	1001	1294	1542
↓V*	1006	1124	1417	1664

Power (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.5	6.6	8.9	11.1
↓B*	6.0	7.1	9.4	11.6
↓H*	7.3	8.4	10.7	12.9
↓V*	8.4	9.5	11.8	14.14.02

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	124	121	123	121
↓B*	123	121	122	120
↓H*	121	119	121	120
↓V*	120	118	120	119

\* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.  
 \*\* Based on ITL report: 85122  
**S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output**

Lumen Adjustment Factors - 80 CRI	
<b>3000K</b>	0.985
<b>3500K</b>	1.000
<b>4000K</b>	1.032

Lumen Adjustment Factors - 90 CRI	
<b>3000K</b>	0.746
<b>3500K</b>	0.760
<b>4000K</b>	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

**SAMPLE LUMEN ADJUSTMENT CALCULATION**

High Output (H) / High Output (H),  
 Open, 4000K, 90CRI

$Lumen\ Adjustment\ Factor = 0.789$

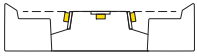
$Total\ Light\ Output = 5178\ lm \times 0.789 = 4085\ lm$

$Total\ Light\ Output\ per\ Foot = 1294\ lm/ft \times 0.789 = 1021\ lm/ft$

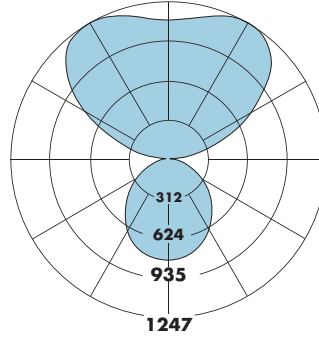
$watts/foot = 10.7\ W/ft$

$Efficacy = \frac{1021\ \frac{lm}{ft}}{10.7\ \frac{W}{ft}} = 95\ lm/W$

**3E FROSTED TOP OPTIC (FTO) PHOTOMETRY - 4 ft. Luminaire**



For applications where a soft beam edge on wall or vertical surface is desired.



Series16-LED-ID-DCO-3E-V-V-835-FTO

Distribution: 65% Up / 35% Down

Efficacy: 108 Lumens per watt

Total Luminaire Output: 6043 lumens (1511 lumens/foot)

56.2 watts (14.1 watts/foot)

CCT: 3500K

ITL LM79 Report 88524

CANDLEPOWER SUMMARY						
	0	22.5	45.0	67.5	90.0	Flux
0	799	799	799	799	799	
5	794	794	795	794	794	75
15	760	756	759	758	756	214
25	693	685	688	687	684	316
35	599	592	593	589	587	370
45	491	486	485	480	477	373
55	374	370	368	362	361	328
65	252	250	247	242	242	244
75	131	130	128	126	126	136
85	30	30	30	29	29	35
90	0	0	0	0	0	
95	59	63	65	61	58	75
105	223	240	278	297	303	287
115	415	455	538	588	607	518
125	606	671	798	880	911	693
135	778	851	998	1102	1140	752
145	916	974	1108	1207	1241	683
155	1013	1046	1137	1208	1232	521
165	1070	1080	1123	1154	1168	317
175	1096	1098	1101	1106	1108	105
180	1099	1099	1099	1099	1099	

**3E Frosted Top Optics (FTO)**

↑ Indirect	↓ Direct
------------	----------

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	↑S*	↑B*	↑H*	↑V**
↓S*	2474 [↑165%   35%↓]	2890 [↑170%   30%↓]	3930 [↑178%   22%↓]	4808 [↑182%   18%↓]
↓B*	2694 [↑160%   40%↓]	3110 [↑165%   35%↓]	4150 [↑174%   26%↓]	5028 [↑179%   21%↓]
↓H*	3244 [↑150%   50%↓]	3660 [↑156%   44%↓]	4700 [↑165%   35%↓]	5578 [↑171%   29%↓]
↓V*	3709 [↑144%   56%↓]	4125 [↑149%   51%↓]	5165 [↑160%   40%↓]	6043 [↑165%   35%↓]

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	618	722	982	1202
↓B*	673	777	1037	1257
↓H*	811	915	1175	1395
↓V*	927	1031	1291	1511

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

Power (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.5	6.6	8.9	11.1
↓B*	6.0	7.1	9.4	11.6
↓H*	7.3	8.4	10.7	12.9
↓V*	8.4	9.5	11.8	14.0

**SAMPLE LUMEN ADJUSTMENT CALCULATION**

High Output (H) / High Output (H),  
Open, 4000K, 90CRI

Lumen Adjustment Factor = 0.789

Total Light Output =  
4700 lm x 0.789 = 3708 lm

Total Light Output per Foot =  
1175 lm/ft x 0.789 = 927 lm/ft

watts/foot = 10.7 W/ft

$$\text{Efficacy} = \frac{927 \frac{\text{lm}}{\text{ft}}}{10.7 \frac{\text{W}}{\text{ft}}} = 87 \text{ lm/W}$$

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	112	109	110	108
↓B*	112	109	110	108
↓H*	111	109	110	108
↓V*	110	109	109	108

\* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.

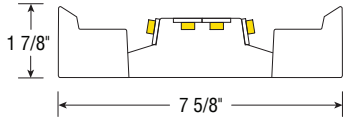
\*\* Based on ITL report: 88524

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

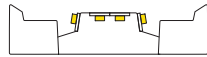
A brand of **legrand**

## 4E FEATURES

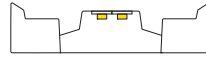
### DIMENSIONS & LIGHT ENGINES



### DISTRIBUTION RATIOS

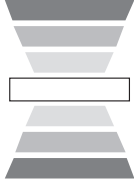


Total Direct Optic (TDO)



- 10U90D - 10% ↑ / 90% ↓
- 20U80D - 20% ↑ / 80% ↓
- 30U70D - 30% ↑ / 70% ↓
- 40U60D - 40% ↑ / 60% ↓

### DIMMING



The uplight and downlight can be dimmed together or separately. 0-10V controls with a range of 10-100%. Dimming to 1% available.

### PRESET OUTPUTS

Available with factory presets in 3000, 4000, and 5000 lumens.

Date

Project

Type

Comments

### ORDERING GUIDE:

Sample Number: S16 LED ID - DCO - 8' - 4E - S - 835 - 10U90D - 120V - FC-10% - SC - FA - FE - SW - C1 - OBO - CP - RLA

Series 16 LED ID	Shielding (DCO, WCB)	Length (4', 8', multiples standard)	Light Engine System (4E - 4 Light Engine)	Light Output (S - 3000 lumens, B - 4000 lumens, H - 5000 lumens)	LED CRI/CCT (830 - 80 CRI min, 3000K; 835 - 80 CRI min, 3500K; 840 - 80 CRI min, 4000K; 930 - 90 CRI min, 3000K; 935 - 90 CRI min, 3500K; 940 - 90 CRI min, 4000K)	Optic or Distribution Ratio (TDO - Total Direct Optic, 10U90D - 10% up / 90% down, 20U80D - 20% up / 80% down, 30U70D - 30% up / 70% down, 40U60D - 40% up / 60% down)	Voltage (120V, 277V)	Driver (FC-10% - 0-10V 10% (standard), FC-1% - 0-10V 1%)	Circuiting (SC - Single Circuit, DC - Dual Circuit) <sup>1</sup>	Mounting (FA - Fully Adjustable (standard), AC - semi-adjustable)	Endcap (FE - Flat Endcap (standard), EE - Extended Endcap)	Finish (SW - Signal White (standard), FB - Finelite Blakc, SA - Satin Aluminum, #### - RAL Color Code <sup>2</sup> )	Ceiling Type (C1 - 15/16" T-Bar, C2 - 9/16" T-Bar, C3 - Slot Grid, C1T - 15/16" Tegular, C2T - 9/16" Tegular, C4 - Hard Ceiling)	Integrated Sensors (OBO - Occupancy, OBD - Daylight, W601 - Wattstopper Wireless Sensor <sup>3</sup> , OBE - Enlighted <sup>4</sup> , CLM - Encelium Sensor, RE7 - nLight Air Sensor, AOCC-W - Lutron Athena Sensor (Device Color White) <sup>5</sup> , AOCC-B - Lutron Athena Sensor (Device Color Black) <sup>5</sup> , ARF-W - Lutron Athena RF (Device Color White) <sup>5</sup> , ARF-B - Lutron Athena RF (Device Color Black) <sup>5</sup> )	Special Options (CP - Chicago Plenum, RLA - Red List Approved, RLD - Declared Label)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

<sup>1</sup> Contact factory for switching options.

<sup>2</sup> 20 business days lead time for color

<sup>3</sup> LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected / LMFS-601 w/ DALI driver, only 1 driver can be connected.

<sup>4</sup> Enlighted components installed by Finelite, provided by others

<sup>5</sup> 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 drivers may be connected / DALI Drivers - AOCC & ARF up to 4 drivers can be connected.



## 4E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

### Series 16-LED-ID-DCO-4E-H-835-10U90D

Efficacy: 115 lumens per watt  
Total Luminaire Output: 5000 lumens (1250 lm/ft)  
43.6 watts (10.9 W/ft)  
Source Report 85122 (Family Correlation)

### Series 16-LED-ID-DCO-4E-H-835-30U70D

Efficacy: 117 lumens per watt  
Total Luminaire Output: 5000 lumens (1250 lm/ft)  
42.9 watts (10.7 W/ft)  
Source Report 85122 (Family Correlation)

### Series 16-LED-ID-DCO-4E-H-835-TDO

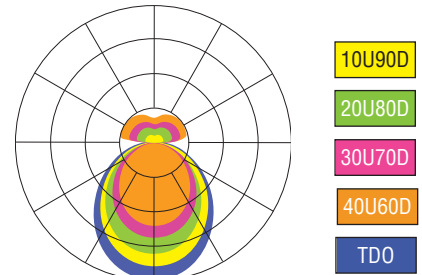
Efficacy: 115 lumens per watt  
Total Luminaire Output: 5000 lumens (1250 lm/ft)  
43.3 watts (10.8 W/ft)  
Source Report 85122 (Family Correlation)

### Series 16-LED-ID-DCO-4E-H-835-20U80D

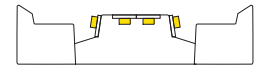
Efficacy: 115 lumens per watt  
Total Luminaire Output: 5000 lumens (1250 lm/ft)  
43.6 watts (10.9 W/ft)  
Source Report 85122 (Family Correlation)

### Series 16-LED-ID-DCO-4E-H-835-40U60D

Efficacy: 117 lumens per watt  
Total Luminaire Output: 5000 lumens (1250 lm/ft)  
42.6 watts (10.7 W/ft)  
Source Report 85122 (Family Correlation)



Refer to LM-79 reports for candlepower summaries



## 4E DISTRIBUTION RATIOS

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire			
	S*	B*	H*
10U90D	3000	4000	5000
20U80D	3000	4000	5000
30U70D	3000	4000	5000
40U60D	3000	4000	5000
TDO	3000	4000	5000

Light Output, 3500K, 80 CRI (Lumens Per Foot)			
	S*	B*	H*
10U90D	750	1000	1250
20U80D	750	1000	1250
30U70D	750	1000	1250
40U60D	750	1000	1250
TDO	750	1000	1250

Power (Watts Per Foot)			
	S*	B*	H*
10U90D	6.4	8.5	10.6
20U80D	6.5	8.5	10.7
30U70D	6.4	8.2	10.3
40U60D	6.4	8.5	10.5
TDO	6.1	8.2	10.4

Efficacy, 3500K, 80 CRI (Lumens Per Watt)			
	S*	B*	H*
10U90D	117	118	118
20U80D	115	117	117
30U70D	117	122	122
40U60D	117	118	119
TDO	123	122	120

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

### SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 20U80D, 4000K, 90 CRI

$$\text{Lumen Adjustment Factor} = 0.789$$

$$\text{Total Light Output} = 5000 \text{ lm} \times 0.789 = 3945 \text{ lm}$$

$$\text{Total Light Output per Foot} = 1250 \text{ lm/ft} \times 0.789 = 986 \text{ lm/ft}$$

$$\text{watts/foot} = 10.7 \text{ W/ft}$$

$$\text{Efficacy} = \frac{986 \frac{\text{lm}}{\text{ft}}}{10.7 \frac{\text{W}}{\text{ft}}} = 92 \text{ lm/W}$$

\* Family Correlation based on 3E 4 ft. luminaire 3500K Very High Output (V) test - 120V.

S - Standard Output, B - Boosted Standard Output, H - High Output

A brand of **legrand**

## SPECIFICATIONS

**CONSTRUCTION:** Body is 20-gauge die-formed steel with an 18-gauge die-formed internal joiner system. Plug-together wiring standard. All components are hard-tooled to tolerances of +/- 0.010".

**ENDCAPS:** The Flat Endcap (**FE**) is standard and made of 20-gauge die-formed steel adding 1/8" at each end. The optional Extended Endcap (**EE**) is an aluminum die-cast endcap with a 1/8" reveal adding 2-1/2" at each end.

### OPTICS & DISTRIBUTION RATIOS:

Open	Standard ( <b>2E, 3E</b> )
FTO	Frosted Top Optic ( <b>2E, 3E</b> )
CTO	Clear Top Optic ( <b>2E</b> )
TDO	Total Direct Optic ( <b>2E, 4E</b> )
10U90D	10% up / 90% down ( <b>2E, 4E</b> )
20U80D	20% up / 80% down ( <b>2E, 4E</b> )
30U70D	30% up / 70% down ( <b>2E, 4E</b> )
40U60D	40% up / 60% down ( <b>2E, 4E</b> )

**SHIELDING:** Diffuse Center Optic (**DCO**), 73% transmissive, 99% diffusion. Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 1/8" thick. Inner diffuser: 1/8" thick with 40% round perforations white/white. White Cross Baffle (**WCB**), 87 cell baffles spaced 1/2" apart and finished with 96% reflective white paint.

### LIGHT OUTPUT:

**2E & 3E:** Four lumen packages available: Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**).

**4E:** Three lumen packages available, Standard (**S**), 3000 lumens, Boosted Standard (**B**), 4000 lumens, High (**H**), 5000 lumens.

A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

**LUMEN MAINTENANCE:** 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

**REFLECTORS:** (**91W**) Die-formed pre-painted aluminum, 91% reflective white.

**DRIVER:** Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%-100%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor:  $\geq 0.9$ . Total Harmonic Distortion (THD): < 20%. Expected driver lifetime: 100,000 hours.

**LUTRON DRIVER OPTIONS: LUTES1:** Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series); Contact factory for availability of discontinued Lutron drivers, L3DA-3-wire and L3DA EcoSystem.

**ELECTRICAL:** Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Optional Chicago Plenum available.

**2E:** A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2361 lumens. A 4 ft. section will be illuminated in emergency mode.

**3E:** A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2202 lumens. The down-light engine will be illuminated in a 4 ft. section in emergency mode.

**4E:** A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2202 lumens. The down-light engine will be illuminated in a 4 ft. section in emergency mode.



**INTEGRATED SENSORS:** Integrated PIR (Passive Infrared) Occupancy (OBO) or Daylight Sensors (OBD) available with Flush and Bottom Glow downlight diffusers. PIR sensors not recommended for stairwell applications. Refer to Occupancy Sensor & Daylight Sensor tech sheet and the Embedded Intelligence landing page for more information and additional sensor options.

**MOUNTING:** 50" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard. Contact factory for additional lengths up to 150". Optional semi-adjustable Aircraft Cable (**AC**) ( $\pm 1/2"$ ) in lengths of 12", 15", 18", 21", 24", 27", 30", and 36".

**FINISHES:** Finelite Signal White (**SW**) powder coat, Finelite Black (**RAL 9005**) with semi gloss fine texture (**FB**), and Satin Aluminum (**SA**) are standard. Optional Adders: 179 RAL colors.<sup>1</sup>

**FEED:** Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps.

**LENGTHS:** Standard 4 ft. and 8 ft. section lengths can be combined to make longer runs. Contact factory additional lengths.

**LABELS:** Fixture and electrical components are ETL listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 - PoE options available on request. Damp Location. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2015/863. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Red List Declared Label) to your part number.

**WEIGHT:** 3.0 lb/ft.

**WARRANTY:** 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

<sup>1</sup> 20 business days lead time for color