

# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 2E, 3E, & 4E



Refer to spec page for details

Declare.



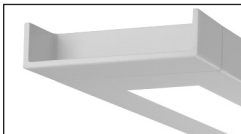
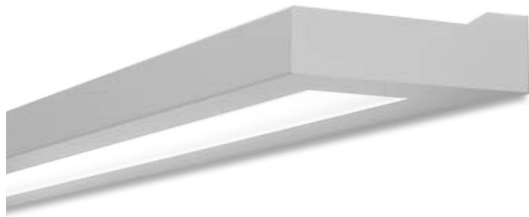
Date

Project

Type

Comments

Flat Endcap shown



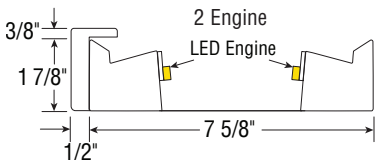
Signal White is standard finish

Extended Endcap

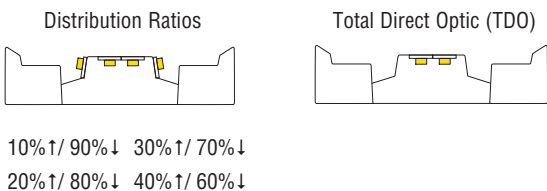
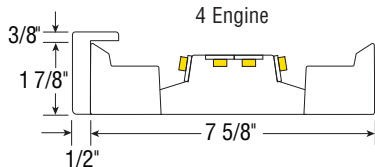
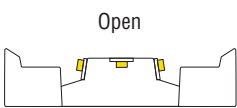
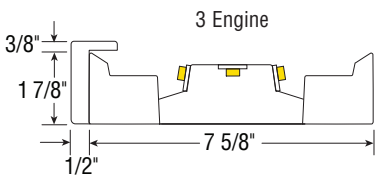
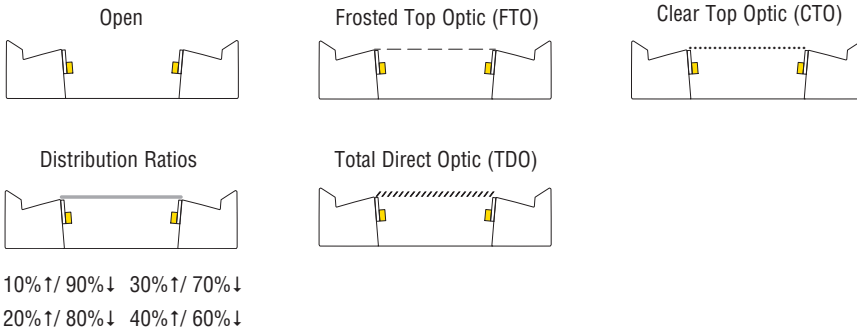
### DESCRIPTION

Series 16 LED WM 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



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

A brand of Legrand

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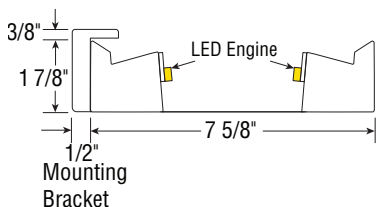
Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for the most current data.

# FINELITE

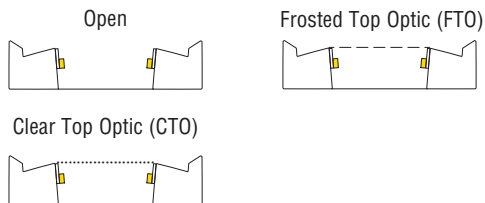
## Series 16 LED Wall Mount Indirect/Direct - 2E

### 2E FEATURES

#### DIMENSIONS & LIGHT ENGINE



#### OPTIC OPTIONS



#### DISTRIBUTION RATIO OPTIONS



- 10U90D - 10% ↑ / 90% ↓  
(includes CTO standard)
- 20U80D - 20% ↑ / 80% ↓  
(includes FTO standard)
- 30U70D - 30% ↑ / 70% ↓  
(includes FTO standard)
- 40U60D - 40% ↑ / 60% ↓  
(includes FTO standard)

Date

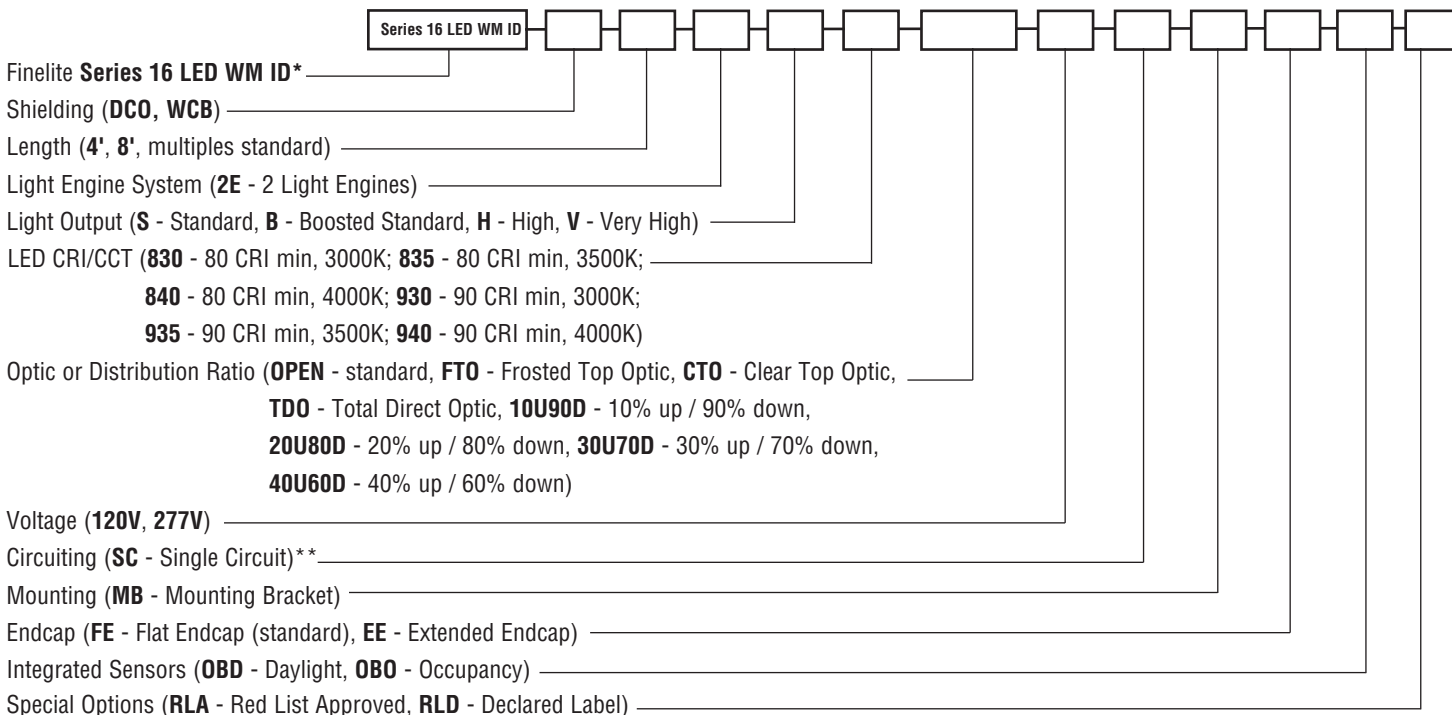
Project

Type

Comments

#### ORDERING GUIDE:

Sample Number: S16 LED WM ID - DCO - 8' - 2E - S - 835 - 20U80D - 120V - SC - MB - FE - OBO - RLA



\* Indirect luminaires available on 2E.  
 \*\* Contact factory for switching options.

# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 2E

### 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 - Applies to Pendant and Wall Mount

#### Series 16-LED-ID-DCO-2E-V-835-FTO

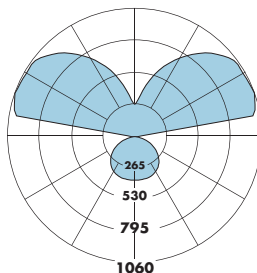
Distribution: 63% up / 37% down

Efficacy: 119 lumens per watt

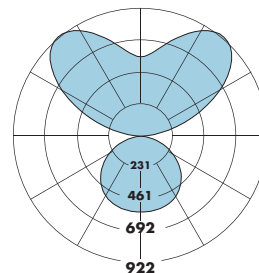
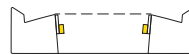
Total Luminaire Output: 4442 lumens (1111 lumens/foot)  
37.3 watts (9.3 watts/foot)

ITL LM79 Report 85121

2E OPEN - REPORT 85120



2E FTO - REPORT 85121



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, 3500K, 80 CRI (Watts Per Foot)

	S*	B*	H*	V**
OPEN	3.7	4.6	7.2	9.3
FTO	3.7	4.6	7.2	9.3

#### Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	S*	B*	H*	V**
OPEN	132	131	128	127
FTO	125	123	121	119

\* 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

Lumen Adjustment Factor = 0.789

Total Light Output =  
3673 lm x 0.789 = 2898 lm

Total Light Output per Foot =  
918 lm/ft x 0.789 = 724 lm/ft

watts/foot = 7.2 W/ft

$$\text{Efficacy} = \frac{724 \frac{\text{lm}}{\text{ft}}}{7.2 \frac{\text{W}}{\text{ft}}} = 101 \text{ lm/W}$$

# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 2E

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

#### 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

#### 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

#### 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

#### Series 16-LED-ID-DCO-2E-V-835-20U80D

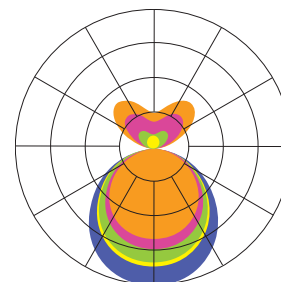
Efficacy: 85 lumens per watt  
Total Luminaire Output: 3291 lumens (823 lm/ft)  
37.2 watts (9.3 w/ft)

ITL LM79 Report 87820

#### 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



10U90D

20U80D

30U70D

40U60D

TDO

### 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, 3500K, 80 CRI (Watts Per Foot)				
	S*	B*	H*	V**
10U90D	3.6	4.6	7.1	9.3
20U80D	3.6	4.6	7.1	9.3
30U70D	3.6	4.6	7.1	9.3
40U60D	3.6	4.6	7.1	9.3
TDO	3.6	4.6	7.1	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	S*	B*	H*	V**
10U90D	88	87	86	84
20U80D	92	92	90	88
30U70D	99	98	96	94
40U60D	103	102	100	99
TDO	92	91	89	88

Refer to LM-79 reports for candlepower summaries



#### 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

Lumen Adjustment Factor = 0.789

Total Light Output =  
2560 lm x 0.789 = 2020 lm

Total Light Output per Foot =  
640 lm/ft x 0.789 = 505 lm/ft

watts/foot = 7.1 W/ft

$$\text{Efficacy} = \frac{505 \frac{\text{lm}}{\text{ft}}}{7.1 \frac{\text{W}}{\text{ft}}} = 71 \text{ lm/W}$$

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

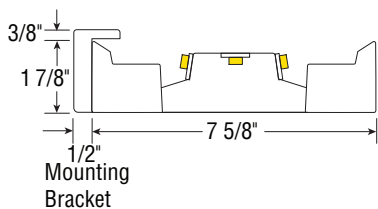
**S - Standard Output, B - Boosted Standard Output, H - High Output** A brand of **legrand**

# FINELITE

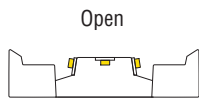
## Series 16 LED Wall Mount Indirect/Direct - 3E

### 3E FEATURES

#### DIMENSIONS & LIGHT ENGINE



#### OPTIC OPTION

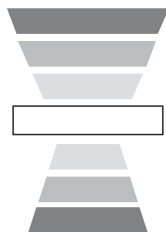


#### LUMEN PACKAGES

Available in four outputs.

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

#### DIMMING



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

Date

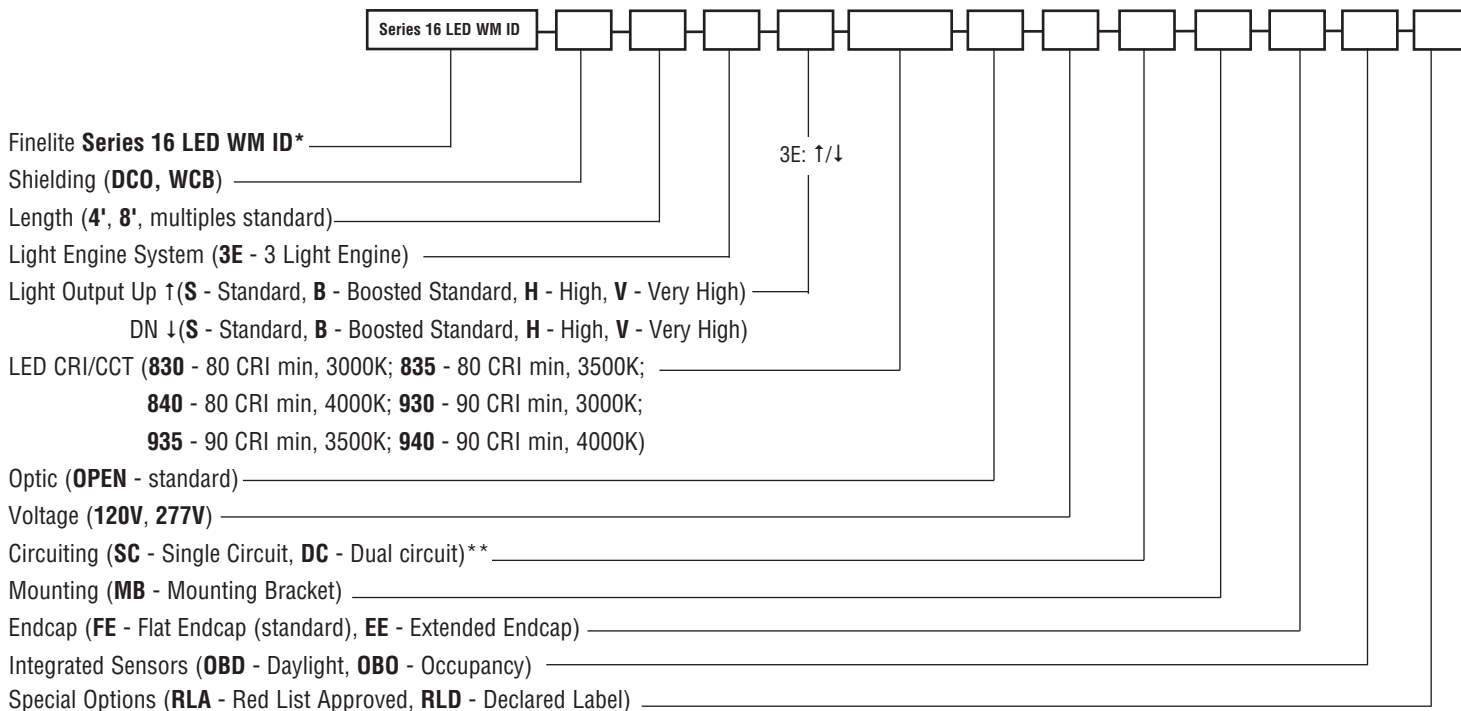
Project

Type

Comments

#### ORDERING GUIDE:

Sample Number: S16 LED WM ID - DCO - 8' - 3E - S/B - 835 - OPEN - 120V - SC - MB - FE - OBO - RLA

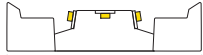


\* Indirect luminaires available on 3E.  
\*\* Contact factory for switching options.

# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 3E

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



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

Distribution: 67% Up / 33% Down

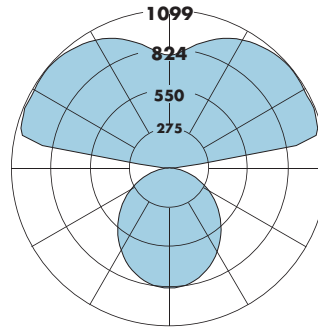
Efficacy: 117 Lumens per watt

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	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*	3537 [↑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, 3500K, 80 CRI (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.7	6.6	9.1	11.2
↓B*	6.2	7.1	9.6	11.7
↓H*	7.5	8.5	10.9	13.0
↓V*	8.6	9.6	12.1	14.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	120	121	120	119
↓B*	120	120	120	119
↓H*	118	118	119	118
↓V*	116	117	117	117

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

Lumen Adjustment Factor = 0.789

Total Light Output =

5178 lm x 0.789 = 4085 lm

Total Light Output per Foot =

1295 lm/ft x 0.789 = 1022 lm/ft

watts/foot = 10.9 W/ft

$$\text{Efficacy} = \frac{1022 \frac{\text{lm}}{\text{ft}}}{10.9 \frac{\text{W}}{\text{ft}}} = 94 \text{ lm/W}$$

\* 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

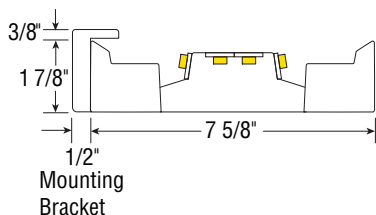
A brand of LeGrand

# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 4E

### 4E FEATURES

#### DIMENSIONS & LIGHT ENGINE



#### DISTRIBUTION RATIOS



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

#### PRESET OUTPUTS

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

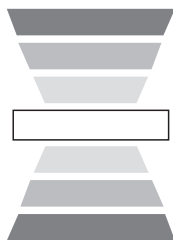
Date

Project

Type

Comments

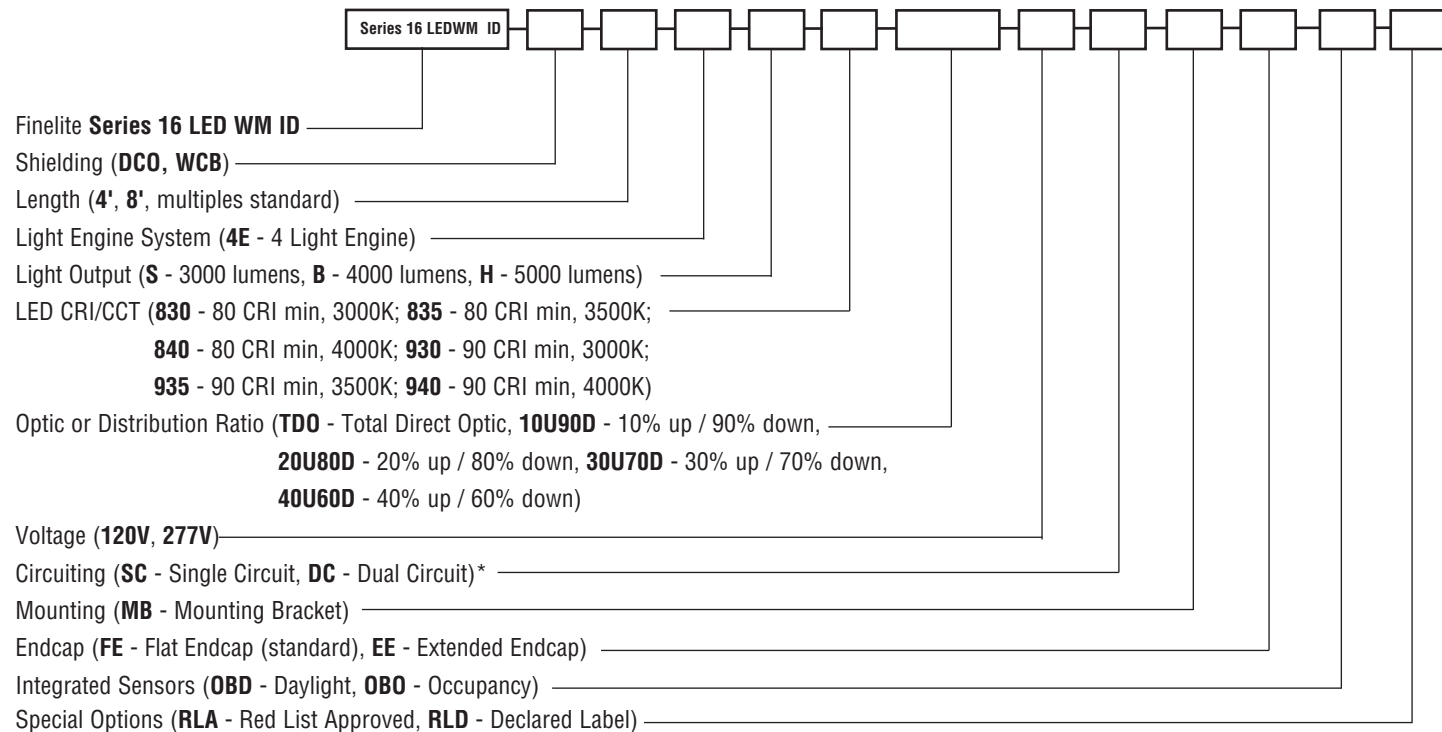
#### DIMMING



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

#### ORDERING GUIDE:

Sample Number: S16 LED WM ID - DCO - 8' - 4E - S - 85 - 10U90D - 120V - SC - MB - FE - OBO - RLA



\* Contact factory for switching options.

# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 4E

### 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)

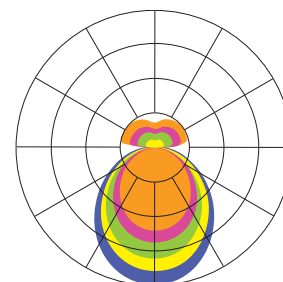
Source Report 85122 (Family Correlation)

#### 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)



10U90D

20U80D

30U70D

40U60D

TDO

### 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, 3500K, 80 CRI (Watts Per Foot)

	S*	B*	H*
10U90D	6.6	8.7	10.9
20U80D	6.6	8.7	10.9
30U70D	6.6	8.7	10.7
40U60D	6.6	8.6	10.6
TDO	6.4	8.6	10.8

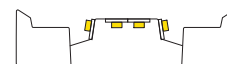
#### Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	S*	B*	H*
10U90D	115	115	115
20U80D	114	115	115
30U70D	114	115	117
40U60D	114	116	117
TDO	117	117	115

\* 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

Refer to LM-79 reports for candlepower summaries



#### 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

Lumen Adjustment Factor = 0.789

Total Light Output =  
5000 lm x 0.789 = 3945 lmTotal Light Output per Foot =  
1250 lm/ft x 0.789 = 986 lm/ft

watts/foot = 10.9 W/ft

$$\text{Efficacy} = \frac{986 \frac{\text{lm}}{\text{ft}}}{10.9 \frac{\text{W}}{\text{ft}}} = 90 \text{ lm/W}$$

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# FINELITE

## Series 16 LED Wall Mount Indirect/Direct - 2E, 3E, & 4E

### 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</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.

**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)); **LUTES5** (5-Series 5% EcoSystem (LDE5 Series)), **LUT2W** (Hi-lume 1% 2-wire, 120V forward phase dimming (LTEA 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.

**2E WALL MOUNT:** 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 WALL MOUNT:** 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 WALL MOUNT:** 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:** Daylight sensors and Integrated PIR (Passive Infrared) occupancy sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

**MOUNTING:** The standard mount is a hidden bracket constructed of 14-gauge steel mounted to the luminaire using #10 screws. Two brackets are provided for every luminaire section. A leveling screw is included to ensure the luminaire is perpendicular to the vertical wall surface.

**FINISHES:** Finelite Signal White powder coat standard. Optional Adders: 185 RAL colors.

**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 410.73 (G), this luminaire contains an internal driver disconnect. 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 2011/65/EU. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Declared Label) to your part number.

**WEIGHT:** 3.0 lb/ft.

**DLC QUALIFIED:** Configurations of this product are listed on the DLC Qualified Products List (QPL). [www.designlights.org/search](http://www.designlights.org/search)

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