

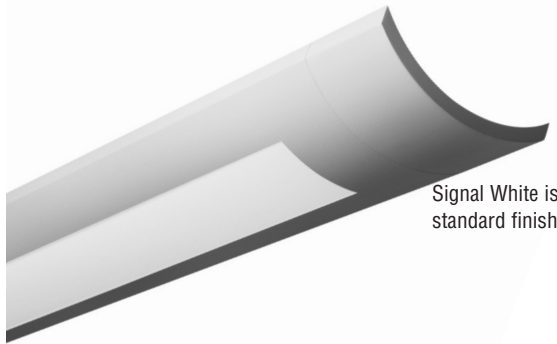
FINELITE

Series 12 LED Indirect/Direct - 2E, 3E, & 4E



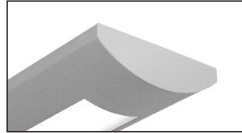
Refer to spec page for details

Declare.

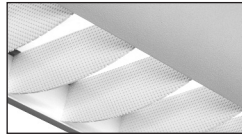


Signal White is standard finish

Curved Endcap and Diffuse Center Optic (DCO) shown.



Flat Endcap



(WCB) Shielding



(PLV) Shielding

Date

Project

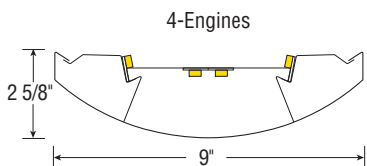
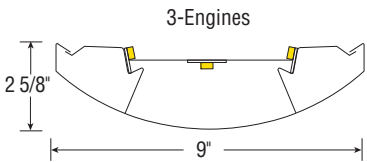
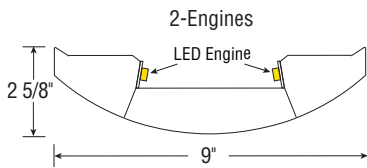
Type

Comments

DESCRIPTION

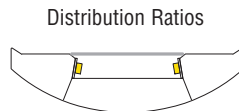
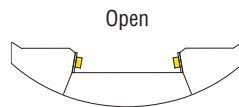
Series 12 LED is a luminaire with a classic curved shape and is available with 2, 3 or 4 light engines. The luminaire uses mid-power LEDs for long life and enhanced performance. It is available with a standard flat endcap or an optional extended diecast aluminum endcap. This Product is enrolled in the 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

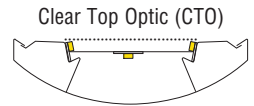
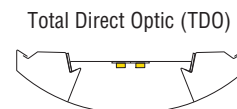
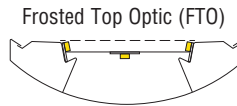
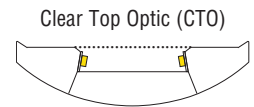
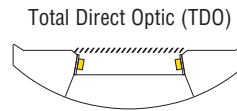
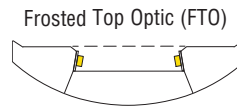


Available with factory presets in 3000, 4000, and 5000 lumens.

OPTIC & DISTRIBUTION RATIO OPTIONS



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



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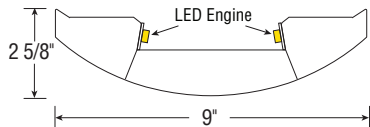
Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for most current data.

FINELITE

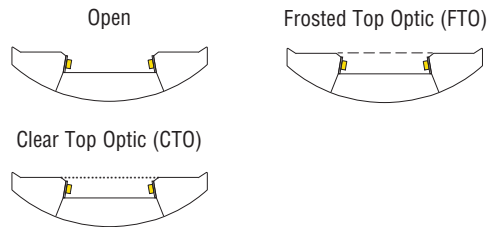
Series 12 LED Indirect/Direct - 2E

2E FEATURES

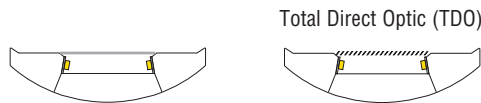
DIMENSIONS & LIGHT ENGINES



OPTIC OPTIONS



DISTRIBUTION RATIO OPTIONS



- 10U90D - 10% ↑ / 90% ↓
(includes FTO 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: S12 LED ID - DCO - 8' - 2E - S - 835 - 10U90D - 120V - SC - FA - FE - C1 - OBO - RLA

Series 12 LED ID	Shielding (DCO, WCB, PLV)	Length (4', 8', multiples standard)	Light Engine System (2E - 2 Light Engine)	Light Output (S - Standard, B - Boosted Standard, H - High, V - Very High)	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 (OPEN - standard, FTO - Frosted Top Optic, CTO - Clear Top Optic, 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)	Circuiting (SC - Single Circuit)**	Mounting (FA - Fully Adjustable (standard), AC - semi-adjustable)	Endcap (FE - Flat Endcap (standard), CE - Curved Endcap)	Ceiling Type (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - slot grid, C4 - hard ceiling)	Integrated Sensors (OBD - Daylight, OBO - Occupancy)	Special Options (RLA - Red List Approved, RLD - Declared Label)
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* Indirect luminaires available on 2E.
 ** Contact factory for switching options.

FINELITE

Series 12 LED Indirect/Direct - 2E

2E OPEN AND FTO PHOTOMETRY - 4 ft. Luminaire

Series 12-LED-ID-DCO-2E-V-835-OPEN

Distribution: 74% up / 26% down
 Efficacy: 128 lumens per watt
 Total Luminaire Output: 4784 lumens (1196 lumens/foot)
 37.3 watts (9.3 watts/foot)

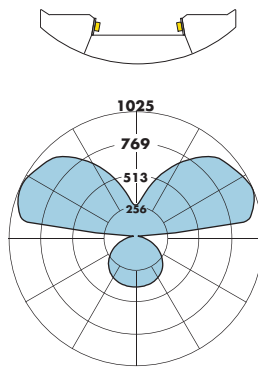
ITL LM79 Report 85161

Series 12-LED-ID-DCO-2E-V-835-FTO

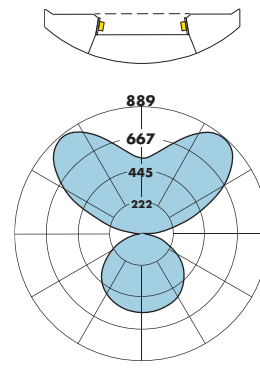
Distribution: 62% up / 38% down
 Efficacy: 118 lumens per watt
 Total Luminaire Output: 4391 lumens (1098 lumens/foot)
 37.1 watts (9.3 watts/foot)

ITL LM79 Report 85162

2E OPEN - REPORT 85161



2E FTO* - REPORT 85162



*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	1958	2462	3721	4784
FTO	1797	2260	3415	4391

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	S*	B*	H*	V**
OPEN	490	615	930	1196
FTO	449	565	854	1098

Power, 3500K, 80 CRI (Watts Per Foot)				
	S*	B*	H*	V**
OPEN	3.7	4.6	7.2	9.3
FTO	3.6	4.6	7.1	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	S*	B*	H*	V**
OPEN	134	133	130	128
FTO	124	122	120	118

* 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) 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
 3721 lm x 0.789 = 2936 lm

Total Light Output per Foot =
 930 lm/ft x 0.789 = 734 lm/ft

watts/foot = 7.2 W/ft

$$Efficacy = \frac{734 \frac{lm}{ft}}{7.2 \frac{W}{ft}} = 102 \text{ lm/W}$$

FINELITE

Series 12 LED Indirect/Direct - 2E

2E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

Series 12-LED-ID-DCO-2E-V-835-10U90D

Efficacy: 85 lumens per watt
 Total Luminaire Output: 3163 lumens (791 lumens/foot)
 37.1 watts (9.3 watts/foot)
 ITL LM79 Report 87814

Series 12-LED-ID-DCO-2E-V-835-30U70D

Efficacy: 93 lumens per watt
 Total Luminaire Output: 3457 lumens (864 lumens/foot)
 37.1 watts (9.3 watts/foot)
 ITL LM79 Report 87816

Series 12-LED-ID-DCO-2E-V-835-40U60D

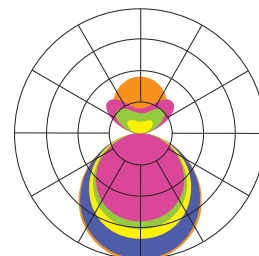
Efficacy: 104 lumens per watt
 Total Luminaire Output: 3852 lumens (963 lumens/foot)
 37.1 watts (9.3 watts/foot)
 ITL LM79 Report 87817

Series 12-LED-ID-DCO-2E-V-835-20U80D

Efficacy: 90 lumens per watt
 Total Luminaire Output: 3331 lumens (833 lumens/foot)
 37.1 watts (9.3 watts/foot)
 ITL LM79 Report 87815

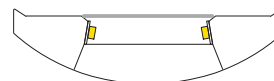
Series 12-LED-ID-DCO-2E-V-835-TDO

Efficacy: 86 lumens per watt
 Total Luminaire Output: 3187 lumens (797 lumens/foot)
 37.1 watts (9.3 watts/foot)
 ITL LM79 Report 87818



10U90D 20U80D 30U70D 40U60D TDO

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	1295 [↑15% 85%↓]	1628 [↑15% 85%↓]	2460 [↑15% 85%↓]	3163 [↑15% 85%↓]
20U80D	1364 [↑26% 74%↓]	1714 [↑26% 74%↓]	2591 [↑26% 74%↓]	3331 [↑26% 74%↓]
30U70D	1415 [↑33% 67%↓]	1779 [↑33% 67%↓]	2689 [↑33% 67%↓]	3457 [↑33% 67%↓]
40U60D	1577 [↑32% 68%↓]	1982 [↑32% 68%↓]	2996 [↑32% 68%↓]	3852 [↑32% 68%↓]
TDO	1305 [↑0% 100%↓]	1640 [↑0% 100%↓]	2479 [↑0% 100%↓]	3187 [↑0% 100%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	S*	B*	H*	V**
10U90D	324	407	615	791
20U80D	341	429	648	833
30U70D	354	445	672	864
40U60D	394	496	749	963
TDO	326	410	620	797

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	89	88	86	85
20U80D	94	93	91	90
30U70D	97	96	94	93
40U60D	109	107	105	104
TDO	90	89	87	86

* 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), / 20U80D, 4000K, 90 CRI

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

$$\text{Total Light Output} = 2591 \text{ lm} \times 0.789 = 2044 \text{ lm}$$

$$\text{Total Light Output per Foot} = 648 \text{ lm/ft} \times 0.789 = 511 \text{ lm/ft}$$

$$\text{watts/foot} = 7.1 \text{ W/ft}$$

$$\text{Efficacy} = \frac{511 \frac{\text{lm}}{\text{ft}}}{7.1 \frac{\text{W}}{\text{ft}}} = 72 \text{ lm/W}$$

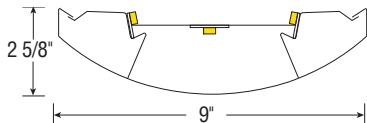
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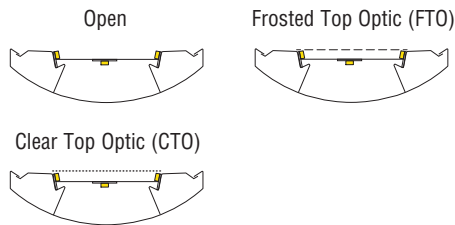
Series 12 LED Indirect/Direct - 3E

3E FEATURES

DIMENSIONS & LIGHT ENGINES



OPTIC OPTIONS



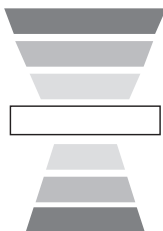
Date

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.

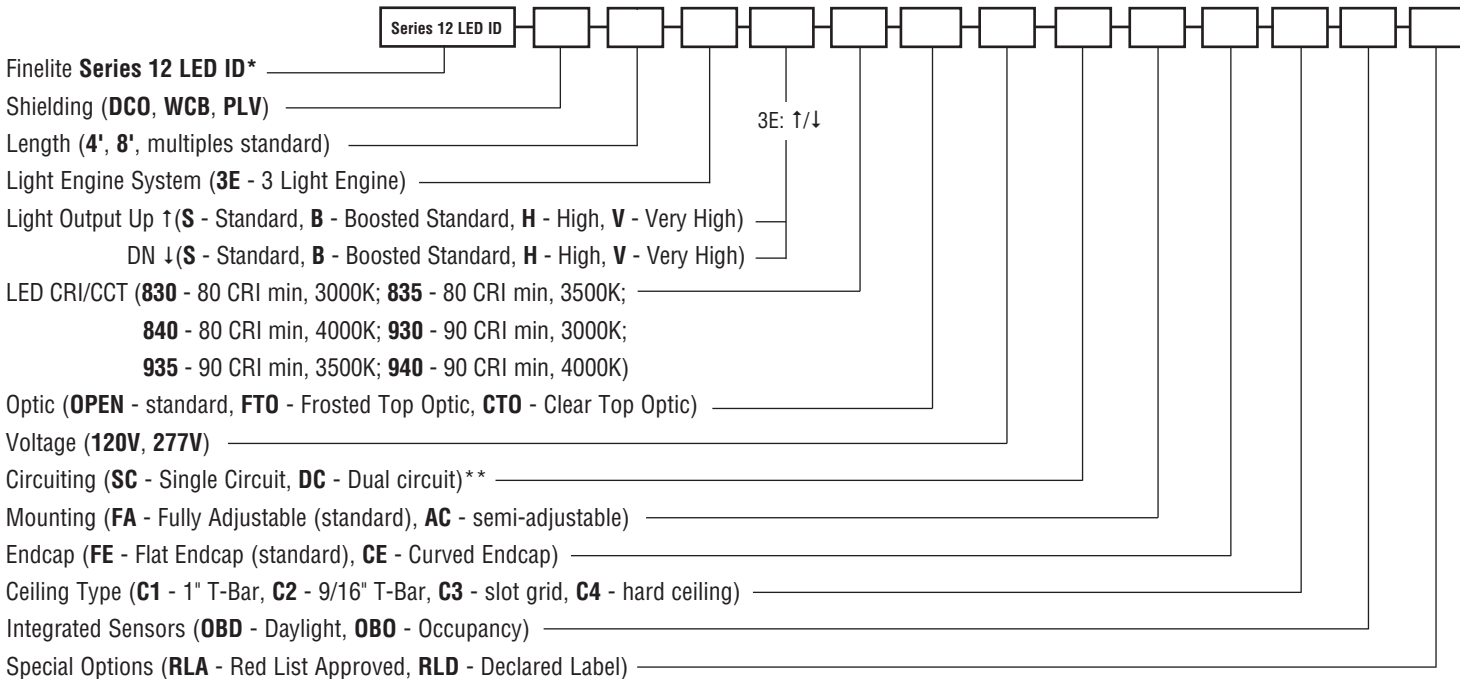
LUMEN PACKAGES

Available in four outputs.

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

ORDERING GUIDE:

Sample Number: S12 LED ID - DCO - 8' - 3E - S/B - 835 - FTO - 120V - SC - FA - FE - C1 - OBO - RLA

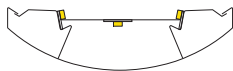


* Indirect luminaires available on 3E.
** Contact factory for switching options.

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Series 12 LED Indirect/Direct - 3E

3E OPEN PHOTOMETRY - 4 ft. Luminaire



Series 12-LED-ID-DCO-3E-V-V-835-OPEN

Distribution: 71% up / 29% down

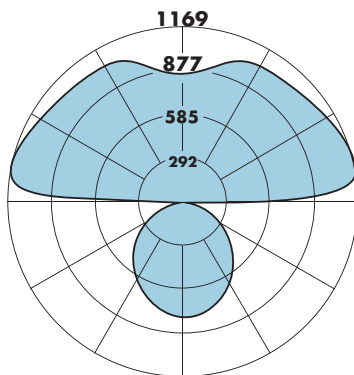
Efficacy: 124 lumens per watt

Total Luminaire Output: 7069 lumens (1767 lumens/foot)

57.0 watts (14.3 watts/foot)

CCT: 3500K

ITL LM79 Report 85163



CANDLEPOWER SUMMARY						
	0.0	22.5	45.0	67.5	90.0	Flux
0	754	754	754	754	754	754
5	750	750	750	750	750	71
15	718	714	718	719	718	202
25	462	460	465	467	466	301
35	399	399	403	404	404	354
45	325	326	329	331	331	358
55	247	248	251	253	253	317
65	167	169	173	174	175	238
75	90	94	97	101	103	138
85	24	27	35	42	45	48
90	0	6	14	21	23	
95	54	414	788	1021	1090	647
105	185	499	866	1087	1162	826
115	325	575	862	1058	1130	800
125	460	680	880	1031	1082	754
135	585	765	916	1023	1061	682
145	691	803	960	1025	1046	573
155	773	819	947	1019	1040	426
165	826	840	884	929	949	252
175	851	854	857	861	863	82
180	855	855	855	855	855	

3E Open

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

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	↑S*	↑B*	↑H*	↑V**
↓S*	2894 [↑71% ↓29%↓]	3424 [↑76% ↓24%↓]	4751 [↑83% ↓17%↓]	5872 [↑86% ↓14%↓]
↓B*	3107 [↑66% ↓34%↓]	3638 [↑71% ↓29%↓]	4965 [↑79% ↓21%↓]	6085 [↑83% ↓17%↓]
↓H*	3641 [↑57% ↓43%↓]	4171 [↑62% ↓38%↓]	5498 [↑71% ↓29%↓]	6619 [↑76% ↓24%↓]
↓V*	4091 [↑50% ↓50%↓]	4622 [↑56% ↓44%↓]	5949 [↑66% ↓34%↓]	7069 [↑71% ↓29%↓]

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*	723	856	1188	1468
↓B*	777	909	1241	1521
↓H*	910	1043	1375	1655
↓V*	1023	1155	1487	1767

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, 3500K, 80 CRI (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.7	6.7	9.1	11.3
↓B*	6.2	7.2	9.6	11.8
↓H*	7.5	8.5	10.9	13.1
↓V*	8.7	9.7	12.1	14.3

SAMPLE LUMEN ADJUSTMENT CALCULATION

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

Lumen Adjustment Factor = 0.789

Total Light Output =
5498 lm x 0.789 = 4338 lm

Total Light Output per Foot =
1375 lm/ft x 0.789 = 1085 lm/ft

watts/foot = 10.9 W/ft

$$Efficacy = \frac{1085 \frac{lm}{ft}}{10.9 \frac{W}{ft}} = 100 \text{ lm/W}$$

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	127	129	131	130
↓B*	125	127	129	129
↓H*	121	123	126	126
↓V*	118	120	123	124

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

** Based on ITL report: 85163

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

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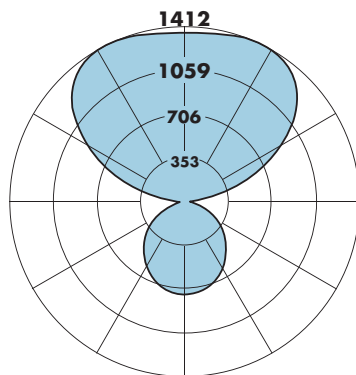
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Series 12 LED Indirect/Direct - 3E

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



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



Series 12-LED-ID-DCO-3E-V-V-835-FTO

Distribution: 70% up / 30% down

Efficacy: 117 lumens per watt

Total Luminaire Output: 6677 lumens (1669 lumens/foot)
57.0 watts (14.3 watts/foot)

CCT: 3500K

ITL LM79 Report 85165

CANDLEPOWER SUMMARY						
	0.0	22.5	45.0	67.5	90.0	Flux
0	749	749	749	749	749	749
5	744	745	745	745	745	71
15	713	709	714	714	713	201
25	649	645	651	653	654	299
35	561	560	567	570	568	354
45	461	460	466	467	467	358
55	352	353	355	358	358	318
65	237	239	243	244	243	239
75	123	127	131	138	139	140
85	26	32	45	55	57	50
90	0	9	23	34	38	
95	69	78	95	108	114	107
105	254	281	330	366	380	344
115	480	532	629	696	719	607
125	717	786	917	1013	1044	802
135	936	1005	1143	1244	1275	866
145	1118	1166	1280	1362	1387	791
155	1245	1270	1342	1396	1412	616
165	1322	1330	1362	1384	1393	385
175	1357	1359	1362	1365	1366	130
180	1362	1362	1362	1362	1362	

3E Frosted Top Optic (FTO)

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

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	↑S*	↑B*	↑H*	↑V**
↓S*	2734 [↑70% 30%↓]	3223 [↑74% 26%↓]	4446 [↑81% 19%↓]	5479 [↑85% 15%↓]
↓B*	2947 [↑65% 35%↓]	3437 [↑70% 30%↓]	4660 [↑78% 22%↓]	5693 [↑82% 18%↓]
↓H*	3482 [↑55% 55%↓]	3971 [↑60% 40%↓]	5194 [↑70% 30%↓]	6227 [↑75% 25%↓]
↓V*	3933 [↑48% 52%↓]	4422 [↑54% 46%↓]	5645 [↑64% 36%↓]	6678 [↑70% 30%↓]

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*	683	806	1112	1370
↓B*	737	859	1165	1423
↓H*	870	993	1299	1557
↓V*	983	1105	1411	1670

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, 3500K, 80 CRI (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.7	6.7	9.1	11.3
↓B*	6.2	7.2	9.6	11.8
↓H*	7.5	8.5	10.9	13.1
↓V*	8.7	9.7	12.1	14.3

SAMPLE LUMEN ADJUSTMENT CALCULATION

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

Lumen Adjustment Factor = 0.789

Total Light Output =
5194 lm x 0.789 = 4098 lm

Total Light Output per Foot =
1299 lm/ft x 0.789 = 1025 lm/ft

watts/foot = 10.9 W/ft

$$Efficacy = \frac{1025 \frac{lm}{ft}}{10.9 \frac{W}{ft}} = 94 \text{ lm/W}$$

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	120	121	122	122
↓B*	119	120	121	121
↓H*	116	117	119	119
↓V*	113	115	117	117

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

** Based on ITL report: 85163

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

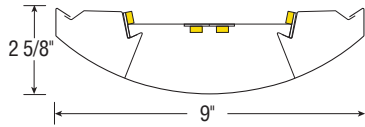
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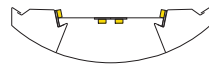
Series 12 LED Indirect/Direct - 4E

4E FEATURES

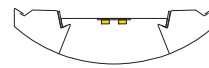
DIMENSIONS & LIGHT ENGINES



DISTRIBUTION RATIOS



Total Direct Optic (TDO)



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

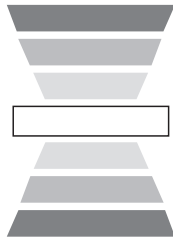
Date

Project

Type

Comments

DIMMING



PRESET OUTPUTS

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

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: S12 LED ID - DCO - 8' - 4E - S - 835 - 10U90D - 120V - SC - FA - FE - C1 - OBO - RLA

Series 12 LED ID

Shielding (DCO, WCB, PLV)

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)

Circuiting (SC - Single Circuit, DC - Dual Circuit)*

Mounting (FA - Fully Adjustable (standard), AC - semi-adjustable)

Endcap (FE - Flat Endcap (standard), CE - Curved Endcap)

Ceiling Type (C1 - 1" T-Bar, C2 - 9/16" T-Bar, C3 - slot grid, C4 - hard ceiling)

Integrated Sensors (OBD - Daylight, OBO - Occupancy)

Special Options (RLA - Red List Approved, RLD - Declared Label)

* Contact factory for switching options.

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Series 12 LED Indirect/Direct - 4E

4E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

Series 12-LED-ID-DCO-4E-H-835-10U90D

Efficacy: 107 lumens per watt
Total Luminaire Output: 5000 lumens (1250 lm/ft)
46.7 watts (11.7 W/ft)
Source Report 85163 (Family Correlation)

Series 12-LED-ID-DCO-4E-H-835-30U70D

Efficacy: 113 lumens per watt
Total Luminaire Output: 5000 lumens (1250 lm/ft)
44.3 watts (11.1 W/ft)
Source Report 85163 (Family Correlation)

Series 12-LED-ID-DCO-4E-H-835-TDO

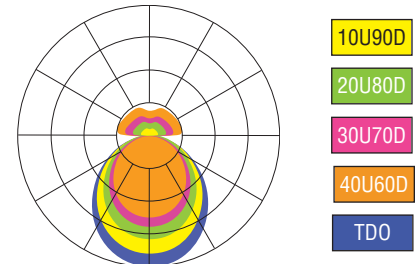
Efficacy: 105 lumens per watt
Total Luminaire Output: 5000 lumens (1250 lm/ft)
47.5 watts (11.9 W/ft)
Source Report 85163 (Family Correlation)

Series 12-LED-ID-DCO-4E-H-835-20U80D

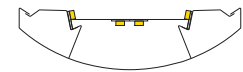
Efficacy: 110 lumens per watt
Total Luminaire Output: 5000 lumens (1250 lm/ft)
45.6 watts (11.4 W/ft)
Source Report 85163 (Family Correlation)

Series 12-LED-ID-DCO-4E-H-835-40U60D

Efficacy: 116 lumens per watt
Total Luminaire Output: 5000 lumens (1250 lm/ft)
43 watts (10.8 W/ft)
Source Report 85163 (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, 3500K, 80 CRI (Watts Per Foot)

	S*	B*	H*
10U90D	7	9.3	11.7
20U80D	6.8	9.1	11.4
30U70D	6.8	8.9	11.1
40U60D	6.7	8.6	10.8
TDO	6.9	9.3	11.9

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

	S*	B*	H*
10U90D	108	108	107
20U80D	109	110	110
30U70D	111	112	113
40U60D	113	116	116
TDO	108	107	105

* 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

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

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

$$\begin{aligned} \text{Total Light Output} &= \\ 5000 \text{ lm} \times 0.789 &= 3945 \text{ lm} \end{aligned}$$

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

$$\text{watts/foot} = 11.4 \text{ W/ft}$$

$$\text{Efficacy} = \frac{986 \frac{\text{lm}}{\text{ft}}}{11.4 \frac{\text{W}}{\text{ft}}} = 87 \text{ lm/W}$$

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Series 12 LED 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 Curved Endcap (**CE**) is an aluminum die-cast endcap with a 1/8" reveal adding 5.0" at each end.

OPTICS & DISTRIBUTION RATIOS:

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

SHIELDINGS:

DCO	Diffuse Center Optic, 73% transmissive, 99% diffusion.
WCB	White Cross Baffle, 87 cell baffles spaced 1/2" apart and finished with 96% reflective white paint.
PLV	Parabolic Louver, Semi-specular louvers with straight edges, spaced approximately 1-3/16" apart.

Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 1/8" thick. Inner diffuser: 1/8" thick with 40% round perforations white/white.

LIGHT OUTPUTS:

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: ≥ 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 (B and V outputs only), back-up battery.

2E: A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2392 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 2027 lumens. A 4 ft. section will be illuminated in emergency mode.

4E: A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2027 lumens. A 4 ft. section will be illuminated in emergency mode.



INTEGRATED SENSORS: Integrated PIR (Passive Infrared) occupancy and/or daylight sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

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 powder coat standard. Optional Adders: 185 Tiger Drylac's non-metallic 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 elec-tronic 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: With Flat Endcaps (**FE**) - 2.0 lb/ft; with Curved Endcaps (**CE**) – 2.6 to 3.6 lb/ft.

DLC QUALIFIED: Configurations of this product are listed on the DLC Qualified Products List (QPL). 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.