

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : S12-WM-ID-LED-DCO-4FT-2E-S-8-35-OPEN-ITL85167.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85167.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/08/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-WM-ID-LED-DCO-4ft-2E-S-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 16.2 WATTS

[ABSOLUTE]LUMENS]1893

[OTHER]see www.finelite.com for source file ITL85167. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	3.32 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3142	3137	3014
55	2812	2846	2814
65	2388	2480	2578
75	1743	1885	2186
85	638	775	1409

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	183.392	183.392	183.392	183.392	183.392	183.392	183.392	183.392	183.392
2.5	185.439	185.439	184.620	184.211	182.982	182.164	181.345	180.526	180.526
5.0	187.076	186.667	185.848	184.211	182.164	180.526	178.480	177.661	177.251
7.5	187.895	187.485	186.257	183.801	180.936	178.070	175.614	173.977	173.158
10.0	187.895	187.485	185.848	182.573	178.889	175.205	171.930	169.883	168.655
12.5	187.485	187.076	184.620	180.526	176.433	171.520	167.836	164.971	163.743
15.0	185.848	185.029	182.573	178.070	173.158	167.836	163.333	160.058	158.421
17.5	183.801	182.982	180.117	175.205	170.292	163.333	158.421	154.737	152.690
20.0	180.936	180.117	176.842	171.930	166.199	158.421	153.509	149.415	146.959
22.5	177.251	176.842	173.567	167.836	162.105	153.918	148.187	143.684	141.228
25.0	172.339	171.930	169.064	163.333	157.193	148.596	142.456	137.544	135.497
27.5	167.836	167.427	164.152	158.421	152.281	143.275	136.725	131.813	129.766
30.0	162.105	161.696	158.830	153.509	146.959	137.953	131.404	126.082	124.035
32.5	156.374	155.556	153.099	147.778	140.819	132.222	125.263	119.942	117.895
35.0	149.825	149.415	146.959	142.047	135.088	126.491	119.532	114.211	112.164
37.5	143.275	142.865	140.409	135.906	128.947	120.351	113.392	108.480	106.433
40.0	135.906	135.906	133.450	129.357	122.807	114.620	107.661	102.749	100.702
42.5	128.538	128.538	126.491	122.807	116.257	108.480	101.930	97.018	94.971
45.0	121.579	121.170	119.532	115.848	110.117	102.339	95.789	91.287	89.649
47.5	114.211	113.801	112.573	108.889	103.567	96.199	90.058	85.556	83.918
50.0	106.023	106.023	105.205	101.930	97.018	90.058	83.918	79.825	78.187
52.5	98.246	98.246	97.836	94.971	90.468	83.918	78.187	74.094	72.865
55.0	90.468	90.058	89.649	87.602	83.509	77.368	72.047	68.363	67.135
57.5	82.690	82.281	82.281	80.234	77.368	71.228	66.316	62.632	61.404
60.0	74.503	74.503	74.503	73.275	70.409	65.088	60.585	56.901	55.673
62.5	66.725	66.725	66.725	65.497	63.450	58.538	54.444	51.579	50.351
65.0	58.947	58.538	59.357	58.129	56.491	52.398	48.713	45.848	44.620
67.5	51.170	50.760	51.579	51.170	49.532	45.848	42.573	40.117	38.889
70.0	43.392	43.392	44.211	43.801	42.982	39.708	36.433	34.795	33.567
72.5	35.614	36.023	36.842	36.842	36.023	33.158	31.111	29.064	27.836
75.0	28.655	28.655	29.474	29.883	29.474	27.427	25.380	23.333	22.515
77.5	21.696	22.105	22.924	23.333	23.333	21.696	19.649	18.012	17.193
80.0	15.146	15.556	16.374	16.784	17.193	15.965	14.327	13.099	12.281
82.5	9.415	9.415	10.643	11.053	11.462	11.053	9.415	8.596	8.596
85.0	4.912	4.912	5.322	6.140	6.550	6.140	5.322	5.322	5.322
87.5	2.047	1.637	2.047	2.047	2.456	2.456	2.047	2.047	2.456
90.0	0.409	0.409	0.409	0.000	0.000	0.409	0.409	0.819	0.819
92.5	0.409	0.409	0.409	1.228	4.503	2.047	2.456	2.456	2.456
95.0	1.228	1.637	3.275	92.924	15.965	9.825	4.503	4.503	4.503
97.5	6.550	108.070	196.082	124.444	33.977	21.696	11.871	7.368	6.959
100.0	279.181	263.626	240.702	147.368	53.626	31.111	24.561	16.784	13.099
102.5	292.281	286.959	255.439	171.520	74.912	39.298	36.842	29.064	25.789
105.0	355.322	330.760	268.129	192.398	96.199	47.895	49.532	41.754	38.480
107.5	358.187	338.129	285.322	210.000	116.667	56.901	58.129	53.626	50.760
110.0	366.374	350.000	305.789	226.374	137.544	68.772	66.725	65.088	63.041
112.5	377.018	363.918	325.848	241.930	157.193	84.327	74.503	73.275	72.865
115.0	390.936	381.520	342.222	257.076	176.433	99.883	82.690	81.462	81.053
117.5	407.719	399.532	356.959	271.813	195.263	115.848	91.287	89.240	89.240
120.0	423.684	412.632	365.965	288.187	213.275	132.632	99.883	97.018	96.608
122.5	435.146	424.094	374.561	306.199	231.287	151.462	110.526	105.205	104.386
125.0	446.199	431.871	383.158	323.801	248.480	169.064	124.854	113.392	112.164
127.5	450.702	435.146	391.345	339.357	265.263	185.848	140.819	121.170	119.942
130.0	452.749	439.240	398.304	353.275	280.819	206.316	158.830	132.222	128.129
132.5	456.023	443.333	404.854	365.146	295.556	228.421	175.205	147.368	139.181

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-WM-ID-LED-DCO-4FT-2E-S-8-35-OPEN-ITL85167.001.IES****CANDELA TABULATION - (Cont.)**

135.0	458.480	446.608	410.994	374.971	309.883	246.023	191.170	164.971	155.146
137.5	460.117	449.474	418.363	384.386	322.982	261.579	209.181	182.573	173.567
140.0	461.345	451.111	427.368	392.982	334.854	277.134	226.374	199.357	190.760
142.5	461.754	453.158	437.193	400.351	346.725	292.690	243.158	215.731	207.953
145.0	462.573	456.023	444.971	407.310	357.368	307.427	258.713	232.105	224.327
147.5	464.211	460.936	450.702	413.450	367.602	320.936	277.953	250.526	241.111
150.0	469.123	467.485	454.386	418.772	376.608	334.035	298.830	267.719	259.532
152.5	474.035	471.170	456.842	422.865	385.205	346.316	314.795	282.456	274.678
155.0	476.491	472.807	458.070	426.550	392.164	357.778	329.123	304.971	291.871
157.5	476.901	472.398	459.298	429.006	399.123	368.012	342.632	323.392	314.795
160.0	474.854	470.760	459.298	431.053	404.854	377.836	354.503	338.129	331.579
162.5	472.398	467.895	457.661	431.462	409.766	387.251	365.965	350.819	345.497
165.0	468.713	464.620	455.205	432.281	414.678	396.257	377.018	363.099	358.187
167.5	464.620	460.117	450.702	431.871	417.544	403.626	387.661	375.380	371.287
170.0	457.251	454.386	445.380	431.871	420.409	410.175	397.895	388.070	383.977
172.5	449.883	446.608	439.240	434.327	422.865	414.269	407.310	400.760	398.304
175.0	440.058	438.421	435.556	432.690	424.503	419.181	415.906	411.403	409.357
177.5	435.965	435.146	432.690	429.415	425.731	422.865	420.819	418.772	417.544
180.0	425.731	425.731	425.731	425.731	425.731	425.731	425.731	425.731	425.731

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-WM-ID-LED-DCO-4FT-2E-S-8-35-OPEN-ITL85167.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	65.98	N.A.	3.50
0-30	137.63	N.A.	7.30
0-40	220.84	N.A.	11.70
0-60	376.41	N.A.	19.90
0-80	458.89	N.A.	24.20
0-90	465.88	N.A.	24.60
10-90	448.59	N.A.	23.70
20-40	154.86	N.A.	8.20
20-50	237.96	N.A.	12.60
40-70	208.93	N.A.	11.00
60-80	82.47	N.A.	4.40
70-80	29.12	N.A.	1.50
80-90	6.99	N.A.	0.40
90-110	195.92	N.A.	10.40
90-120	401.04	N.A.	21.20
90-130	632.65	N.A.	33.40
90-150	1089.39	N.A.	57.60
90-180	1427.03	N.A.	75.40
110-180	1231.12	N.A.	65.00
0-180	1892.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.29
10-20	48.69
20-30	71.65
30-40	83.21
40-50	83.10
50-60	72.47
60-70	53.35
70-80	29.12
80-90	6.99
90-100	38.17
100-110	157.75
110-120	205.13
120-130	231.61
130-140	236.72
140-150	220.02
150-160	180.08
160-170	117.10
170-180	40.47

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

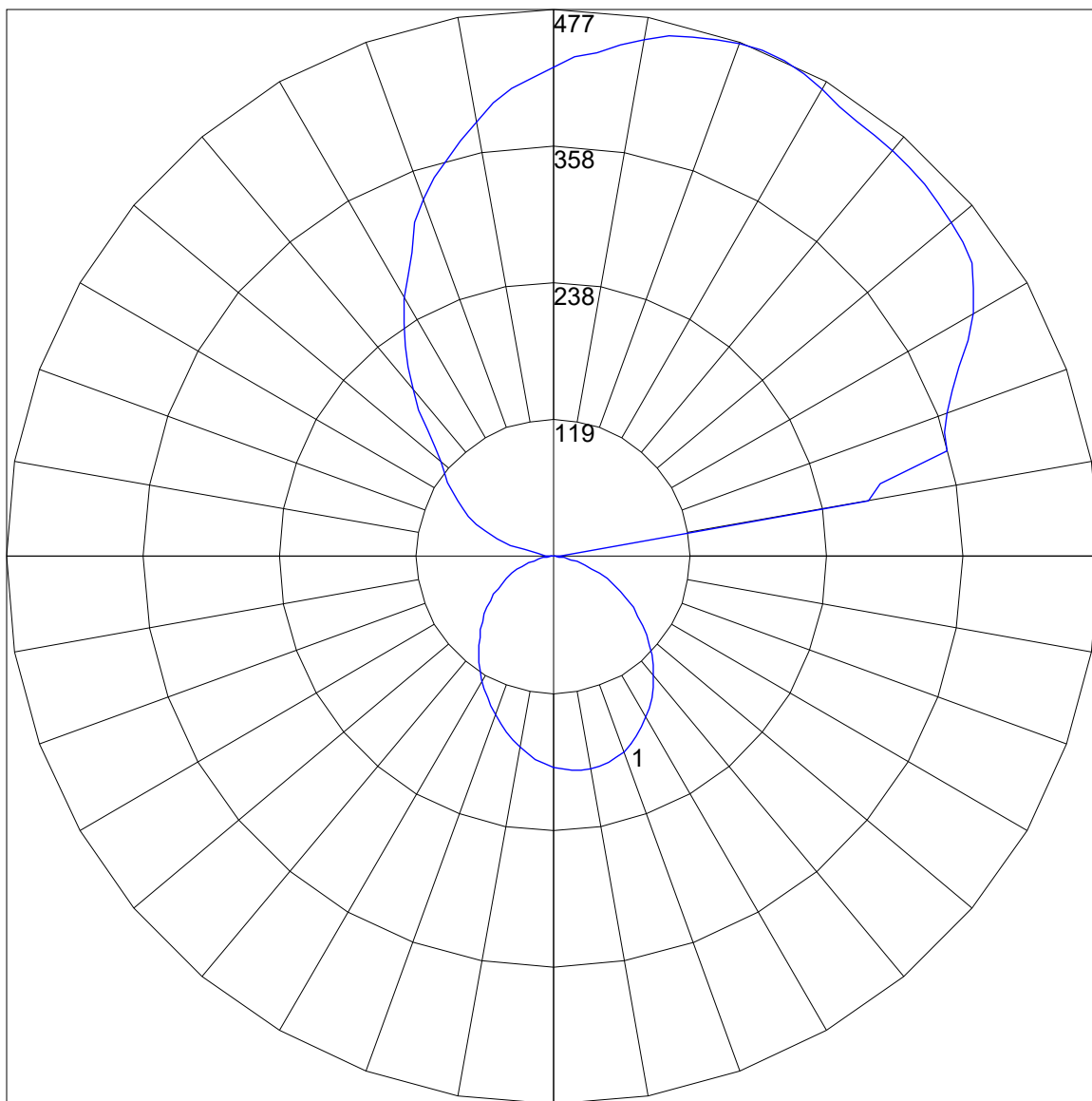
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	25	21	19	16	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

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POLAR GRAPH



Maximum Candela = 476.901 Located At Horizontal Angle = 0, Vertical Angle = 157.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)