

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 : S11-LED-MP-4FT-S-8-35-ITL85172.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85172.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/17/15
[ISSUEDATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S11-LED-MP-4ft-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 8.1 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 10.2 WATTS
[ABSOLUTE]LUMENS]964
[OTHER]see www.finelite.com for source file ITL85172. 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	964
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	8.1
Ballast Factor	1.00
CIE Type	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)	0.09 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	365	0	0
75	1356	633	0
85	4221	3294	0

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	2.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	6.959	3.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	11.462	7.368	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	15.556	11.871	0.819	0.000	0.000	0.000	0.000	0.000	0.000
70.0	20.468	15.965	5.322	0.000	0.000	0.000	0.000	0.000	0.000
72.5	27.836	21.696	9.415	0.000	0.000	0.000	0.000	0.000	0.000
75.0	36.842	30.702	13.918	0.000	0.000	0.000	0.000	0.000	0.000
77.5	49.123	42.164	22.105	0.819	0.000	0.000	0.000	0.000	0.000
80.0	62.632	55.263	32.339	4.503	0.000	0.000	0.000	0.000	0.000
82.5	77.368	69.181	43.392	10.643	0.000	0.000	0.000	0.000	0.000
85.0	93.333	83.918	55.263	18.012	0.000	0.000	0.000	0.000	0.000
87.5	112.164	100.292	67.544	26.199	0.000	0.000	0.000	0.000	0.000
90.0	130.175	117.076	80.643	34.795	0.000	0.000	0.000	0.000	0.000
92.5	147.368	133.450	94.561	44.211	4.503	0.000	0.000	0.000	0.000
95.0	166.608	151.462	108.889	54.444	9.825	0.000	0.000	0.000	0.000
97.5	186.257	169.474	123.626	65.497	15.965	0.000	0.000	0.000	0.000
100.0	205.906	187.485	139.181	76.550	22.924	0.000	0.000	0.000	0.000
102.5	224.327	205.497	154.737	88.421	31.520	0.000	0.000	0.000	0.000
105.0	242.339	223.099	170.702	101.111	40.526	2.456	0.000	0.000	0.000
107.5	259.123	239.474	186.667	114.211	49.942	5.731	0.000	0.000	0.000
110.0	275.088	255.848	202.222	128.129	60.175	11.462	0.000	0.000	0.000
112.5	289.825	270.585	217.778	140.819	71.228	19.649	0.000	0.000	0.000
115.0	302.924	284.503	232.105	154.737	83.099	27.427	1.637	0.000	0.000
117.5	314.795	296.784	246.023	168.655	94.971	36.433	5.731	0.000	0.000
120.0	326.257	308.655	259.123	182.982	107.661	46.257	9.825	0.000	0.000
122.5	335.673	319.298	271.404	196.491	120.760	56.491	13.509	4.094	0.409
125.0	343.450	328.304	283.275	210.000	133.860	67.135	19.649	8.596	5.322
127.5	350.819	336.491	293.509	223.099	147.368	79.006	28.655	12.690	9.825
130.0	357.778	343.860	303.333	235.380	160.877	90.877	39.298	16.784	13.509
132.5	362.690	350.000	311.930	247.251	174.386	103.567	50.760	22.515	18.012

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CANDELA TABULATION - (Cont.)

135.0	367.602	355.731	319.708	258.713	187.895	115.848	63.041	31.520	23.743
137.5	371.287	360.234	326.667	268.538	200.585	129.357	76.140	42.164	33.158
140.0	374.561	363.509	332.398	277.544	213.275	143.275	90.058	55.263	45.029
142.5	377.018	366.784	337.310	286.959	225.556	157.193	104.386	69.591	58.947
145.0	378.655	368.830	341.813	294.327	237.427	171.520	119.532	84.737	74.094
147.5	379.474	370.468	345.906	301.696	248.480	185.848	135.088	101.111	90.468
150.0	379.474	371.287	348.363	307.836	259.123	199.766	151.462	118.304	108.070
152.5	378.655	371.287	350.819	313.158	268.538	213.684	168.246	136.316	126.491
155.0	377.836	370.468	352.047	317.661	277.134	226.784	184.620	154.737	145.731
157.5	375.380	368.830	352.456	320.936	284.912	239.064	201.404	173.567	165.380
160.0	372.924	366.784	352.047	323.801	291.462	250.936	217.368	192.807	184.620
162.5	368.421	363.099	350.819	325.439	297.193	261.988	232.924	210.819	202.632
165.0	363.918	360.234	348.772	327.076	302.515	273.041	247.251	229.240	222.281
167.5	359.006	355.731	345.497	327.485	307.018	282.865	261.579	246.842	241.111
170.0	352.865	350.000	341.403	326.667	310.292	291.462	274.678	263.216	258.713
172.5	345.906	343.041	336.491	325.848	312.749	299.240	286.550	278.363	275.497
175.0	336.901	335.263	331.170	323.392	314.795	306.199	297.602	292.281	290.643
177.5	327.485	326.257	324.211	320.117	316.023	311.520	307.836	304.971	304.561
180.0	316.433	316.433	316.433	316.433	316.433	316.433	316.433	316.433	316.433

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.01	N.A.	0.00
0-80	10.93	N.A.	1.10
0-90	39.14	N.A.	4.10
10-90	39.14	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	1.79	N.A.	0.20
60-80	10.92	N.A.	1.10
70-80	9.14	N.A.	0.90
80-90	28.20	N.A.	2.90
90-110	142.98	N.A.	14.80
90-120	258.85	N.A.	26.80
90-130	395.99	N.A.	41.10
90-150	687.91	N.A.	71.30
90-180	925.03	N.A.	95.90
110-180	782.05	N.A.	81.10
0-180	964.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.01
60-70	1.78
70-80	9.14
80-90	28.20
90-100	55.86
100-110	87.12
110-120	115.87
120-130	137.15
130-140	147.59
140-150	144.33
150-160	123.47
160-170	83.85
170-180	29.80

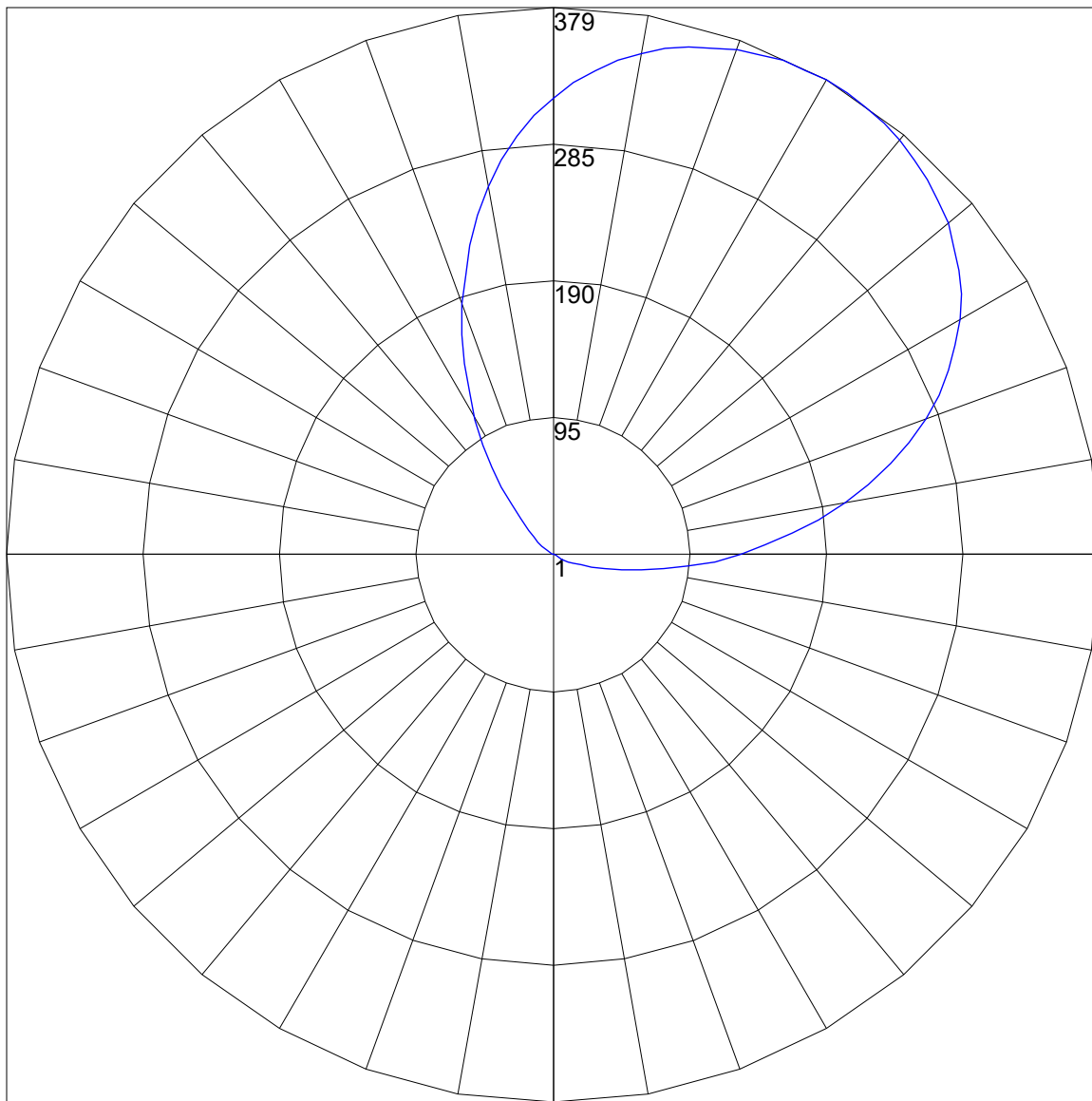
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	83	83	83	83	58	58	58	35	35	35	14	14	14	4
1	86	82	78	74	74	70	67	64	49	46	45	29	28	26	10	10	9	1
2	78	71	65	60	67	61	56	52	42	39	36	25	23	22	9	8	7	0
3	71	62	55	49	61	53	48	43	37	33	30	22	20	18	8	7	6	0
4	65	55	47	41	55	47	41	36	33	29	25	19	17	15	7	6	5	0
5	59	48	41	35	51	42	35	31	29	25	22	17	15	13	6	5	4	0
6	54	43	36	30	46	37	31	26	26	22	19	15	13	11	5	4	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	8	4	4	3	0
9	43	31	24	20	37	27	21	17	19	15	12	11	9	7	4	3	2	0
10	40	29	22	17	34	25	19	15	17	13	11	10	8	6	4	3	2	0

POLAR GRAPH



Maximum Candela = 379.474 Located At Horizontal Angle = 0, Vertical Angle = 147.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)