

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-MF-4FT-B-8-35-ITL85171.002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85171.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/17/15
[ISSUE DATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S11-LED-MF-4ft-B-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 10.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 12.6 WATTS
[ABSOLUTE LUMENS]1189
[OTHER]see www.finelite.com for source file ITL85171. 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	1189
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	10
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)	0.12 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.06 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	232	0	0
75	1166	535	0
85	3311	2629	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	3.602	1.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	9.263	5.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	14.924	10.807	0.515	0.000	0.000	0.000	0.000	0.000	0.000
70.0	21.099	16.468	3.602	0.000	0.000	0.000	0.000	0.000	0.000
72.5	29.848	23.673	8.749	0.000	0.000	0.000	0.000	0.000	0.000
75.0	39.626	31.906	14.924	0.000	0.000	0.000	0.000	0.000	0.000
77.5	49.918	42.199	23.158	0.000	0.000	0.000	0.000	0.000	0.000
80.0	61.754	53.520	32.421	4.117	0.000	0.000	0.000	0.000	0.000
82.5	75.135	65.871	42.713	10.292	0.000	0.000	0.000	0.000	0.000
85.0	89.544	79.766	54.550	18.012	0.000	0.000	0.000	0.000	0.000
87.5	105.497	95.205	67.930	26.760	0.000	0.000	0.000	0.000	0.000
90.0	121.450	112.187	82.854	37.567	0.000	0.000	0.000	0.000	0.000
92.5	141.006	131.228	98.807	49.404	5.146	0.000	0.000	0.000	0.000
95.0	162.620	151.298	116.304	62.269	12.865	0.000	0.000	0.000	0.000
97.5	185.778	172.912	134.316	76.164	21.099	0.000	0.000	0.000	0.000
100.0	209.965	195.556	153.357	90.573	30.363	0.000	0.000	0.000	0.000
102.5	235.181	219.228	172.398	106.012	41.170	1.029	0.000	0.000	0.000
105.0	260.398	242.901	192.468	121.965	53.006	6.175	0.000	0.000	0.000
107.5	286.129	267.088	213.053	138.433	64.842	12.865	0.000	0.000	0.000
110.0	310.316	290.246	233.637	155.415	78.222	21.099	0.000	0.000	0.000
112.5	333.988	312.889	254.737	172.912	92.117	30.877	1.544	0.000	0.000
115.0	355.602	333.474	274.292	190.409	107.041	41.170	7.719	0.000	0.000
117.5	376.187	353.544	294.363	208.421	122.480	53.520	13.380	0.515	0.000
120.0	393.684	371.556	311.860	225.918	138.947	65.871	20.585	6.175	1.544
122.5	409.637	388.538	329.871	243.930	155.415	78.222	28.819	12.865	8.234
125.0	423.532	402.947	345.825	260.912	171.883	91.602	38.596	19.041	14.409
127.5	436.398	416.327	361.263	277.380	189.380	106.012	49.918	26.246	20.585
130.0	447.205	427.649	375.158	293.848	206.363	120.936	62.269	34.480	27.789
132.5	455.953	438.456	387.509	309.287	223.860	136.889	75.135	44.257	36.538

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CANDELA TABULATION - (Cont.)

135.0	463.158	446.175	398.316	323.696	240.842	152.327	89.544	56.094	46.830
137.5	469.848	453.895	408.094	337.076	257.825	169.310	104.468	68.444	58.667
140.0	474.994	460.585	417.357	350.456	274.292	185.778	120.421	82.339	71.532
142.5	478.082	465.216	425.591	361.263	289.731	202.760	137.404	97.778	86.456
145.0	481.170	468.819	432.281	372.585	304.655	220.772	155.930	114.760	102.924
147.5	483.228	472.421	438.971	382.877	319.579	238.784	175.485	133.287	120.936
150.0	484.257	473.965	443.602	391.626	332.959	256.795	195.556	153.357	141.006
152.5	484.257	474.994	447.719	399.345	345.310	274.807	216.655	174.971	162.620
155.0	483.228	474.994	450.292	406.035	357.146	292.304	238.269	198.129	186.292
157.5	481.170	473.965	452.351	412.211	367.439	308.772	259.883	222.830	211.509
160.0	478.082	471.906	452.866	417.357	377.216	324.725	280.982	247.532	237.240
162.5	474.480	468.819	452.351	420.959	385.450	339.649	301.567	272.234	263.485
165.0	470.363	464.702	450.292	423.532	392.655	353.544	321.637	295.906	289.216
167.5	464.702	459.556	447.205	425.076	398.830	366.409	340.678	319.579	314.433
170.0	456.982	452.351	442.573	425.076	402.947	377.731	357.661	341.193	337.591
172.5	448.749	445.146	436.912	423.532	407.064	389.053	374.129	362.292	359.719
175.0	438.456	435.883	430.222	420.959	409.637	397.801	388.023	380.304	379.789
177.5	425.591	424.047	421.474	416.842	411.181	405.006	400.374	396.772	395.228
180.0	411.696	411.696	411.696	411.696	411.696	411.696	411.696	411.696	411.696

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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	0.00	N.A.	0.00
0-80	10.78	N.A.	0.90
0-90	38.19	N.A.	3.20
10-90	38.19	N.A.	3.20
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	1.47	N.A.	0.10
60-80	10.78	N.A.	0.90
70-80	9.30	N.A.	0.80
80-90	27.42	N.A.	2.30
90-110	157.21	N.A.	13.20
90-120	297.54	N.A.	25.00
90-130	470.91	N.A.	39.60
90-150	845.22	N.A.	71.10
90-180	1150.92	N.A.	96.80
110-180	993.71	N.A.	83.60
0-180	1189.11	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	0.00
60-70	1.47
70-80	9.30
80-90	27.42
90-100	58.28
100-110	98.93
110-120	140.34
120-130	173.37
130-140	189.41
140-150	184.90
150-160	158.46
160-170	108.49
170-180	38.74

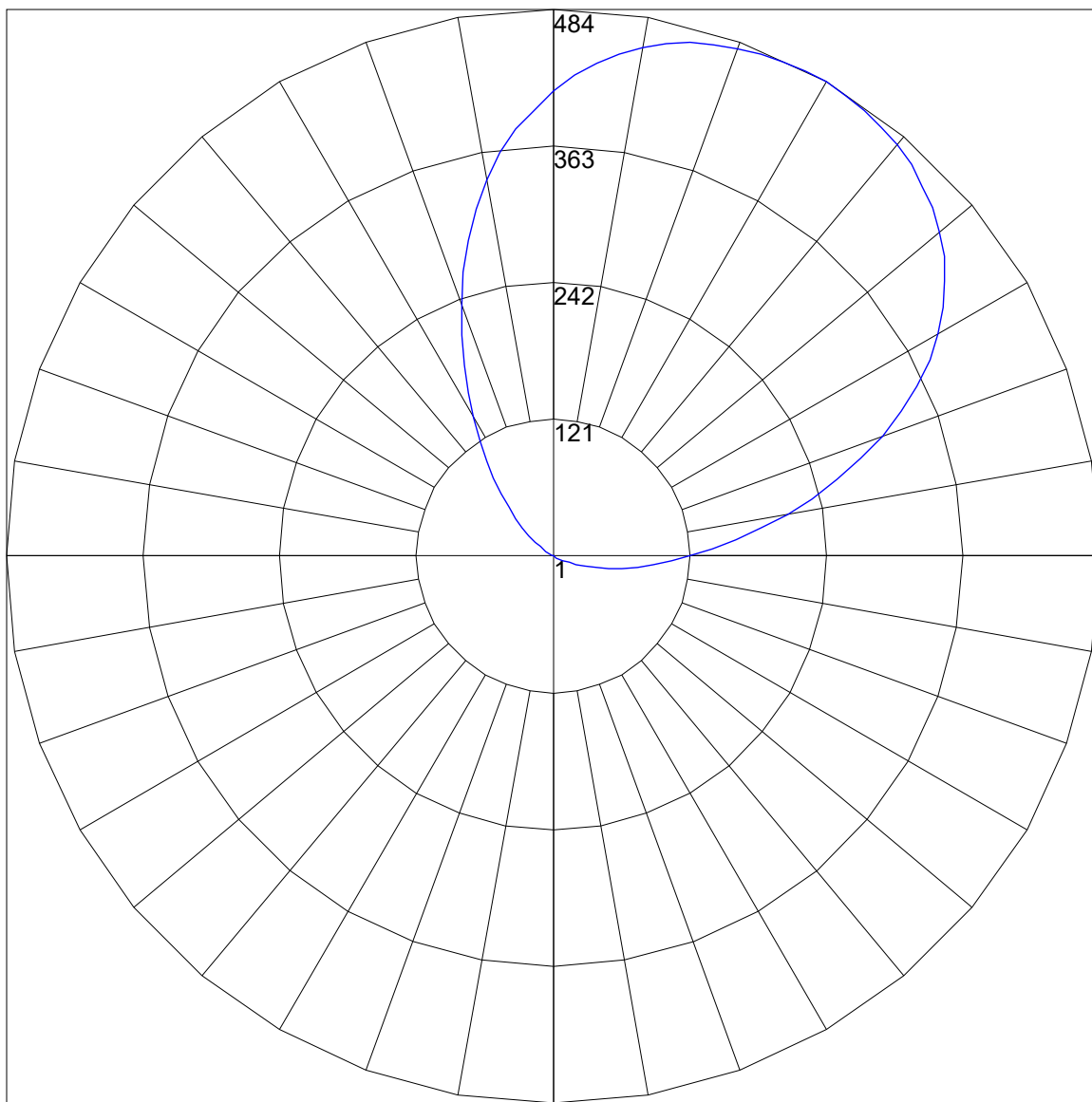
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	57	57	34	34	34	13	13	13	3
1	86	82	78	74	74	70	67	64	49	47	45	29	27	26	10	10	9	1
2	78	71	65	60	67	61	56	52	42	39	37	25	23	22	9	8	7	0
3	71	62	55	50	61	54	48	43	37	33	30	22	20	18	7	7	6	0
4	65	55	47	42	55	47	41	36	33	29	26	19	17	15	7	6	5	0
5	59	49	41	35	51	42	36	31	29	25	22	17	15	13	6	5	4	0
6	55	43	36	30	47	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	3	3	0
9	43	32	25	20	37	27	21	17	19	15	12	11	9	7	4	3	2	0
10	40	29	22	18	34	25	19	15	17	14	11	10	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 484.257 Located At Horizontal Angle = 0, Vertical Angle = 150
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)