

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-LED-ID-DCO-4FT-2E-B-8-35-FTO-ITL85162.002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85162.002 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/10/15

[ISSUEDATE]04/26/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-2E-B-8-35-FTO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 18.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 19.8 WATTS

[ABSOLUTE]LUMENS]2260

[OTHER]see www.finelite.com for source file ITL85162. 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	2260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	18.5
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)	3.32 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2381	2367	2422
55	2295	2238	2292
65	2108	2003	2027
75	1773	1594	1685
85	1041	1067	1244

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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>
0.0	283.556	283.556	283.556	283.556	283.556
2.5	283.041	283.041	283.041	283.041	283.041
5.0	282.012	282.012	282.526	282.526	283.041
7.5	280.468	280.982	281.497	282.012	282.012
10.0	278.924	278.409	279.953	280.982	280.982
12.5	276.865	275.836	278.409	279.953	279.439
15.0	273.263	272.234	275.836	277.380	277.380
17.5	269.661	269.146	272.749	274.807	275.322
20.0	265.544	264.515	269.146	272.234	272.234
22.5	260.398	259.883	265.029	268.632	269.146
25.0	254.737	254.737	260.398	264.515	265.544
27.5	248.561	249.076	254.737	259.883	260.912
30.0	241.871	242.386	249.076	254.737	255.766
32.5	234.667	235.696	242.901	248.561	250.105
35.0	226.947	227.977	235.696	241.871	243.415
37.5	218.713	220.257	227.462	233.637	235.696
40.0	210.480	211.509	219.743	225.918	227.977
42.5	201.216	202.760	210.480	217.170	219.228
45.0	191.439	192.982	201.216	207.392	209.450
47.5	181.661	183.205	190.924	197.099	199.673
50.0	171.368	173.427	180.632	186.807	188.865
52.5	160.561	162.620	169.310	175.485	178.058
55.0	150.269	151.813	158.503	164.164	166.222
57.5	138.947	140.491	146.152	151.813	153.871
60.0	127.111	128.655	134.316	138.947	141.006
62.5	115.275	116.819	121.965	126.596	128.140
65.0	102.409	104.982	109.099	113.216	114.246
67.5	91.088	92.632	96.234	100.351	101.380
70.0	78.737	79.766	83.368	87.485	88.515
72.5	66.386	67.930	70.503	75.135	76.678
75.0	53.520	55.579	58.152	63.298	64.842
77.5	41.684	43.743	46.830	51.977	53.006
80.0	31.392	32.421	37.053	41.170	42.199
82.5	21.099	22.129	27.275	31.392	32.421
85.0	11.322	13.895	18.526	22.643	24.187
87.5	3.088	6.175	11.322	15.439	16.468
90.0	0.000	3.088	7.719	12.351	13.895
92.5	10.292	12.351	18.012	23.158	24.702
95.0	21.614	26.246	34.480	40.140	40.140
97.5	33.965	41.170	51.977	57.123	59.181
100.0	47.345	57.637	69.474	79.766	83.368
102.5	61.754	72.561	92.117	105.497	110.643
105.0	76.678	90.573	115.789	133.801	139.977
107.5	92.117	109.099	141.006	163.135	170.854
110.0	107.556	128.655	165.708	193.497	203.275
112.5	122.994	147.696	192.468	224.889	235.696
115.0	138.433	167.251	218.713	254.737	268.117
117.5	152.842	185.778	244.444	285.099	298.480
120.0	167.251	203.789	268.632	313.918	328.842
122.5	181.661	220.772	291.789	341.193	357.146
125.0	195.041	236.211	312.374	365.895	383.392
127.5	206.877	250.105	330.386	387.509	406.550
130.0	217.684	261.427	345.310	405.520	424.561
132.5	227.462	271.205	357.146	419.415	439.485

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-B-8-35-FTO-ITL85162.002.IES****CANDELA TABULATION - (Cont.)**

135.0	236.211	279.439	365.895	429.193	450.292
137.5	244.444	286.129	371.556	434.854	455.953
140.0	251.135	290.760	373.614	436.398	457.497
142.5	256.795	293.848	373.099	433.825	454.409
145.0	261.427	294.877	369.497	427.135	447.205
147.5	265.544	295.392	364.351	418.386	437.427
150.0	268.632	294.877	357.146	407.064	424.047
152.5	270.690	293.848	348.912	393.684	409.123
155.0	273.263	292.304	340.678	379.789	393.684
157.5	274.292	290.246	330.901	364.351	376.702
160.0	275.322	288.187	321.123	348.912	360.234
162.5	275.836	285.614	311.860	334.503	343.251
165.0	276.351	283.556	303.626	320.094	327.813
167.5	276.351	281.497	295.906	307.743	312.889
170.0	276.351	279.439	289.216	296.936	300.538
172.5	275.836	277.895	283.556	288.187	290.760
175.0	275.322	276.351	279.439	281.497	282.012
177.5	275.836	276.351	276.865	277.380	277.380
180.0	275.836	275.836	275.836	275.836	275.836

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-B-8-35-FTO-ITL85162.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	104.66	N.A.	4.60
0-30	224.49	N.A.	9.90
0-40	371.53	N.A.	16.40
0-60	667.23	N.A.	29.50
0-80	837.83	N.A.	37.10
0-90	859.05	N.A.	38.00
10-90	832.17	N.A.	36.80
20-40	266.87	N.A.	11.80
20-50	421.51	N.A.	18.70
40-70	403.53	N.A.	17.90
60-80	170.60	N.A.	7.50
70-80	62.77	N.A.	2.80
80-90	21.23	N.A.	0.90
90-110	156.62	N.A.	6.90
90-120	364.95	N.A.	16.20
90-130	632.64	N.A.	28.00
90-150	1131.51	N.A.	50.10
90-180	1400.66	N.A.	62.00
110-180	1244.05	N.A.	55.10
0-180	2259.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.88
10-20	77.78
20-30	119.83
30-40	147.05
40-50	154.63
50-60	141.06
60-70	107.83
70-80	62.77
80-90	21.23
90-100	37.48
100-110	119.14
110-120	208.34
120-130	267.69
130-140	272.48
140-150	226.39
150-160	155.91
160-170	86.29
170-180	26.95

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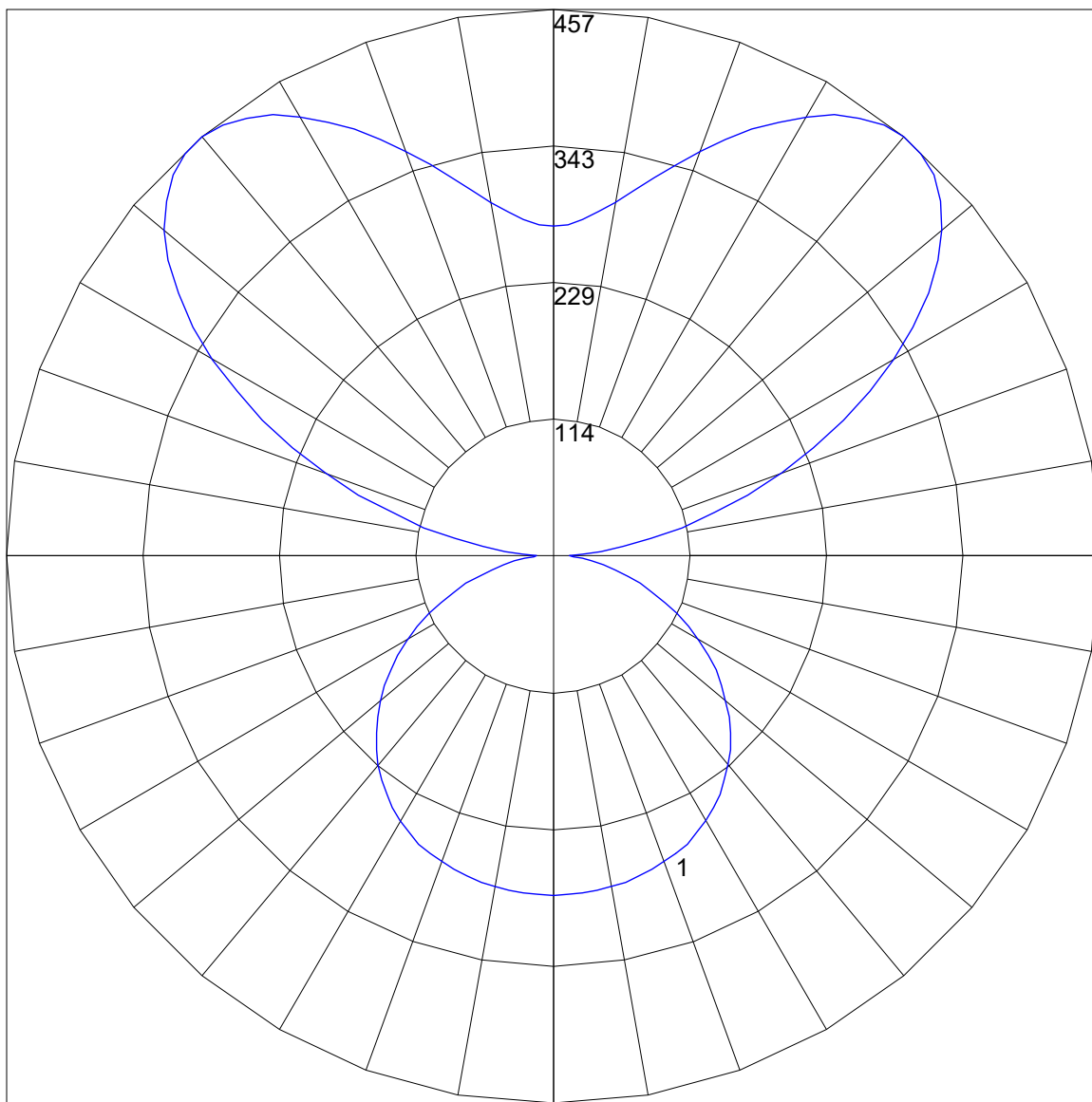
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	83	86	82	79	76	67	64	62	53	51	50	39	38	38	32
2	86	79	73	68	78	72	66	62	58	55	51	46	43	41	34	33	31	26
3	78	69	62	56	71	63	57	51	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	55	49	43	45	40	36	36	32	29	27	25	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	43	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10	45	33	26	21	40	30	24	19	25	20	17	20	16	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 457.497 Located At Horizontal Angle = 90, Vertical Angle = 140
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)