

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-3E-S-H-8-35-OPEN-ITL85163.014.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.014 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/11/15

[ISSUEDATE]04/27/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-3E-S-H-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 30.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 33.7 WATTS

[ABSOLUTE]LUMENS]3642

[OTHER]see www.finelite.com for source file ITL85163. 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	3642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	30.1
Ballast Factor	1.00
CIE Type	General Diffuse
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	4488	4254	4191
55	4193	3888	3818
65	3795	3441	3353
75	3144	2772	2789
85	1860	1881	2161

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-S-H-8-35-OPEN-ITL85163.014.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	586.445	586.444	586.444	586.444	586.444
2.5	585.667	585.667	585.667	585.667	585.667
5.0	583.333	583.333	583.333	583.333	583.333
7.5	579.444	579.444	579.444	579.444	580.222
10.0	573.222	572.444	574.000	574.000	574.000
12.5	567.000	565.444	567.778	567.778	567.000
15.0	558.444	555.333	558.444	559.222	558.444
17.5	548.333	545.222	548.333	549.111	548.333
20.0	536.667	532.778	536.667	537.444	537.444
22.5	522.667	518.778	523.444	524.222	523.444
25.0	507.889	504.778	508.667	510.222	509.445
27.5	493.111	489.222	493.889	494.667	494.667
30.0	476.000	472.889	476.778	477.555	476.778
32.5	458.889	455.778	459.667	461.222	459.667
35.0	441.000	437.889	441.778	442.555	441.778
37.5	420.778	418.445	422.333	423.111	422.333
40.0	401.333	399.000	402.111	403.667	402.889
42.5	381.889	379.555	381.889	384.222	382.667
45.0	360.889	359.333	361.667	363.222	362.445
47.5	339.889	338.333	340.667	341.445	340.667
50.0	317.333	316.555	319.667	320.445	319.667
52.5	296.333	295.555	297.111	298.667	298.667
55.0	274.555	273.778	275.333	276.889	276.889
57.5	252.000	252.000	254.333	255.111	255.111
60.0	230.222	229.444	231.778	233.333	233.333
62.5	206.889	207.667	209.222	210.778	211.556
65.0	184.333	185.111	187.444	188.222	189.000
67.5	161.778	162.556	164.889	166.444	166.444
70.0	139.222	140.778	143.889	144.667	146.222
72.5	116.667	119.000	122.111	124.444	126.778
75.0	94.889	98.000	101.111	105.000	107.333
77.5	73.889	77.000	82.444	86.333	87.889
80.0	53.667	57.556	63.778	68.444	70.000
82.5	35.778	39.667	46.667	52.889	55.222
85.0	20.222	24.889	32.667	39.667	42.000
87.5	7.000	12.444	21.778	28.000	30.333
90.0	0.000	4.667	12.444	18.667	21.000
92.5	10.643	143.275	280.819	322.573	285.322
95.0	22.105	169.474	322.573	417.953	446.199
97.5	34.795	182.573	340.585	436.374	468.304
100.0	48.304	196.901	349.591	444.561	476.491
102.5	61.813	198.947	353.275	446.608	478.538
105.0	75.731	204.269	354.503	444.971	475.673
107.5	90.058	210.819	358.596	441.287	470.760
110.0	105.205	217.778	354.503	438.830	465.848
112.5	119.123	226.374	352.865	440.058	464.211
115.0	133.041	235.380	352.865	433.099	462.573
117.5	147.368	245.205	353.275	428.596	453.977
120.0	161.286	256.257	355.322	426.140	449.883
122.5	175.205	267.310	357.778	423.684	446.199
125.0	188.304	278.363	360.234	422.047	442.924
127.5	202.632	289.006	363.509	421.228	440.468
130.0	214.912	298.830	366.784	420.000	438.012
132.5	227.602	307.017	370.877	419.181	435.965

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-S-H-8-35-OPEN-ITL85163.014.IES****CANDELA TABULATION - (Cont.)**

135.0	239.474	313.158	374.971	418.772	434.327
137.5	250.936	318.070	379.474	418.363	432.281
140.0	262.398	322.573	384.795	418.363	430.643
142.5	273.041	326.257	388.889	418.772	429.415
145.0	282.865	328.713	392.983	419.591	428.187
147.5	292.281	330.351	395.029	420.819	428.187
150.0	300.877	331.988	394.211	421.637	428.187
152.5	309.064	333.216	391.345	421.228	427.778
155.0	316.433	335.263	387.661	417.135	425.731
157.5	322.983	337.719	381.930	410.585	420.000
160.0	328.713	339.766	375.380	402.398	411.404
162.5	334.035	342.222	368.421	392.164	401.170
165.0	338.129	343.860	361.871	380.292	388.479
167.5	341.813	345.906	357.368	368.830	375.380
170.0	344.678	347.135	354.094	360.643	364.737
172.5	346.725	348.363	352.047	355.731	357.778
175.0	348.363	349.591	350.819	352.456	353.275
177.5	349.591	350.000	350.000	350.819	350.819
180.0	350.000	350.000	350.000	350.000	350.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-S-H-8-35-OPEN-ITL85163.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	212.68	N.A.	5.80
0-30	446.70	N.A.	12.30
0-40	722.20	N.A.	19.80
0-60	1247.2	N.A.	34.20
0-80	1539.76	N.A.	42.30
0-90	1576.71	N.A.	43.30
10-90	1521.33	N.A.	41.80
20-40	509.52	N.A.	14.00
20-50	788.20	N.A.	21.60
40-70	710.03	N.A.	19.50
60-80	292.56	N.A.	8.00
70-80	107.53	N.A.	3.00
80-90	36.95	N.A.	1.00
90-110	603.78	N.A.	16.60
90-120	931.14	N.A.	25.60
90-130	1239.88	N.A.	34.00
90-150	1753.81	N.A.	48.20
90-180	2064.92	N.A.	56.70
110-180	1461.14	N.A.	40.10
0-180	3641.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.38
10-20	157.30
20-30	234.02
30-40	275.50
40-50	278.68
50-60	246.33
60-70	185.03
70-80	107.53
80-90	36.95
90-100	265.64
100-110	338.13
110-120	327.36
120-130	308.74
130-140	279.24
140-150	234.69
150-160	174.44
160-170	103.07
170-180	33.60

IES INDOOR REPORT

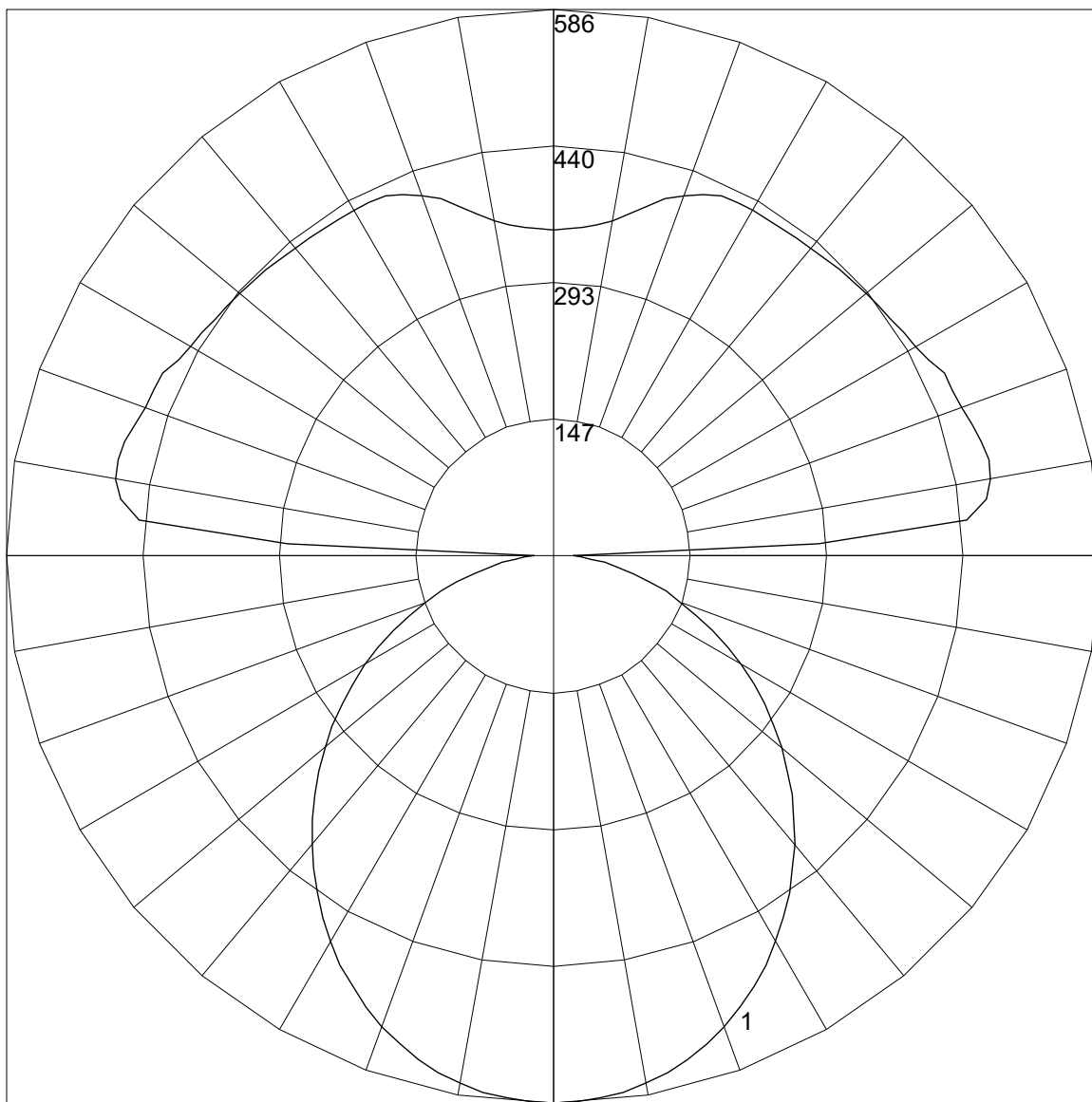
PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-S-H-8-35-OPEN-ITL85163.014.IES

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	88	84	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	87	80	74	69	80	73	68	64	61	57	54	49	47	44	39	37	35	30
3	80	70	63	57	73	64	58	53	54	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	45	48	42	38	39	35	32	30	28	26	22
5	67	55	47	41	61	51	44	38	42	37	33	35	31	28	27	25	22	19
6	62	50	41	36	56	46	39	33	38	33	29	31	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	28	24	21	23	20	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	21	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 586.445 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)