

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-H-S-8-35-OPEN-ITL85163.007.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.007 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-H-S-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 36.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 39.9 WATTS

[ABSOLUTE]LUMENS]4751

[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	4751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	36.5
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	2362	2239	2206
55	2207	2046	2009
65	1997	1811	1765
75	1655	1459	1468
85	979	990	1137

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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	308.655	308.655	308.655	308.655	308.655
2.5	308.246	308.246	308.246	308.246	308.246
5.0	307.017	307.017	307.017	307.017	307.017
7.5	304.971	304.971	304.971	304.971	305.380
10.0	301.696	301.287	302.105	302.105	302.105
12.5	298.421	297.602	298.830	298.830	298.421
15.0	293.918	292.281	293.918	294.327	293.918
17.5	288.596	286.959	288.596	289.006	288.596
20.0	282.456	280.409	282.456	282.865	282.865
22.5	275.088	273.041	275.497	275.906	275.497
25.0	267.310	265.673	267.719	268.538	268.129
27.5	259.532	257.485	259.942	260.351	260.351
30.0	250.526	248.889	250.936	251.345	250.936
32.5	241.520	239.883	241.930	242.749	241.930
35.0	232.105	230.468	232.515	232.924	232.515
37.5	221.462	220.234	222.281	222.690	222.281
40.0	211.228	210.000	211.637	212.456	212.047
42.5	200.994	199.766	200.994	202.222	201.404
45.0	189.941	189.123	190.351	191.170	190.760
47.5	178.889	178.070	179.298	179.708	179.298
50.0	167.018	166.608	168.246	168.655	168.246
52.5	155.965	155.556	156.374	157.193	157.193
55.0	144.503	144.094	144.912	145.731	145.731
57.5	132.632	132.632	133.860	134.269	134.269
60.0	121.170	120.760	121.988	122.807	122.807
62.5	108.889	109.298	110.117	110.936	111.345
65.0	97.017	97.427	98.655	99.064	99.474
67.5	85.146	85.556	86.784	87.602	87.602
70.0	73.275	74.094	75.731	76.140	76.959
72.5	61.404	62.632	64.269	65.497	66.725
75.0	49.941	51.579	53.216	55.263	56.491
77.5	38.889	40.526	43.392	45.439	46.257
80.0	28.246	30.292	33.567	36.023	36.842
82.5	18.830	20.877	24.561	27.836	29.064
85.0	10.643	13.099	17.193	20.877	22.105
87.5	3.684	6.550	11.462	14.737	15.965
90.0	0.000	2.456	6.550	9.825	11.053
92.5	20.222	272.222	533.556	612.889	542.111
95.0	42.000	322.000	612.889	794.111	847.778
97.5	66.111	346.889	647.111	829.111	889.778
100.0	91.778	374.111	664.222	844.667	905.333
102.5	117.444	378.000	671.222	848.556	909.222
105.0	143.889	388.111	673.556	845.444	903.778
107.5	171.111	400.555	681.333	838.444	894.444
110.0	199.889	413.778	673.556	833.778	885.111
112.5	226.333	430.111	670.444	836.111	882.000
115.0	252.778	447.222	670.444	822.889	878.889
117.5	280.000	465.889	671.222	814.333	862.556
120.0	306.445	486.889	675.111	809.667	854.778
122.5	332.889	507.889	679.778	805.000	847.778
125.0	357.778	528.889	684.444	801.889	841.556
127.5	385.000	549.111	690.667	800.333	836.889
130.0	408.333	567.778	696.889	798.000	832.222
132.5	432.445	583.333	704.667	796.444	828.333

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-H-S-8-35-OPEN-ITL85163.007.IES****CANDELA TABULATION - (Cont.)**

135.0	455.000	595.000	712.444	795.667	825.222
137.5	476.778	604.333	721.000	794.889	821.333
140.0	498.555	612.889	731.111	794.889	818.222
142.5	518.778	619.889	738.889	795.667	815.889
145.0	537.444	624.556	746.667	797.222	813.556
147.5	555.333	627.667	750.556	799.556	813.556
150.0	571.667	630.778	749.000	801.111	813.556
152.5	587.222	633.111	743.556	800.333	812.778
155.0	601.222	637.000	736.556	792.556	808.889
157.5	613.667	641.667	725.667	780.111	798.000
160.0	624.556	645.556	713.222	764.556	781.667
162.5	634.667	650.222	700.000	745.111	762.222
165.0	642.444	653.333	687.556	722.556	738.111
167.5	649.444	657.222	679.000	700.778	713.222
170.0	654.889	659.556	672.778	685.222	693.000
172.5	658.778	661.889	668.889	675.889	679.778
175.0	661.889	664.222	666.556	669.667	671.222
177.5	664.222	665.000	665.000	666.556	666.556
180.0	665.000	665.000	665.000	665.000	665.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-H-S-8-35-OPEN-ITL85163.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	111.94	N.A.	2.40
0-30	235.10	N.A.	4.90
0-40	380.11	N.A.	8.00
0-60	656.42	N.A.	13.80
0-80	810.40	N.A.	17.10
0-90	829.85	N.A.	17.50
10-90	800.70	N.A.	16.90
20-40	268.17	N.A.	5.60
20-50	414.84	N.A.	8.70
40-70	373.70	N.A.	7.90
60-80	153.98	N.A.	3.20
70-80	56.59	N.A.	1.20
80-90	19.45	N.A.	0.40
90-110	1145.00	N.A.	24.10
90-120	1766.99	N.A.	37.20
90-130	2353.59	N.A.	49.50
90-150	3330.06	N.A.	70.10
90-180	3921.17	N.A.	82.50
110-180	2776.17	N.A.	58.40
0-180	4751.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.15
10-20	82.79
20-30	123.17
30-40	145.00
40-50	146.67
50-60	129.65
60-70	97.38
70-80	56.59
80-90	19.45
90-100	502.54
100-110	642.45
110-120	621.99
120-130	586.60
130-140	530.56
140-150	445.91
150-160	331.44
160-170	195.83
170-180	63.83

IES INDOOR REPORT

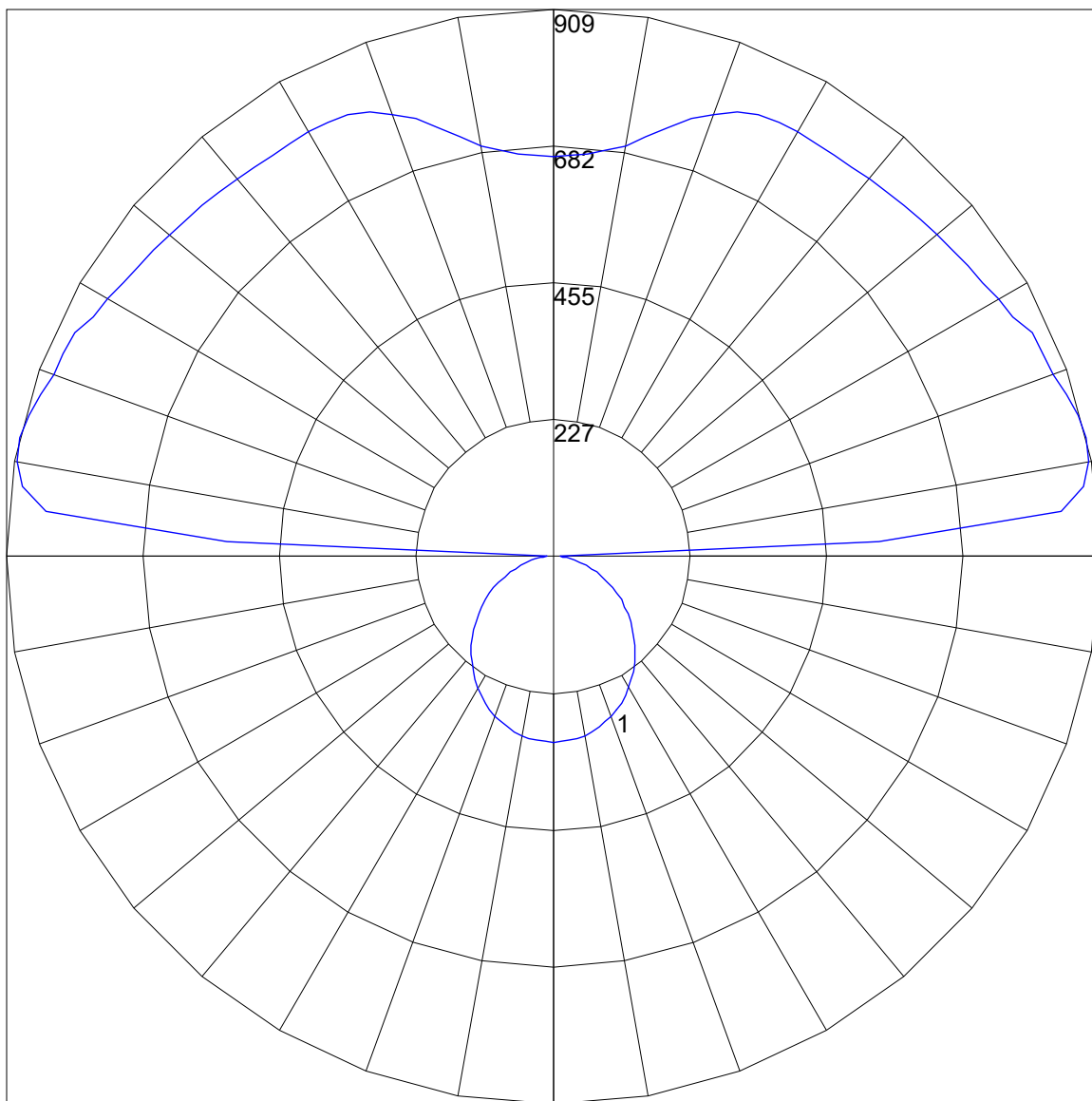
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26	17
1	90	86	83	79	79	76	73	70	57	55	53	39	38	37	23	22	22	15
2	82	75	69	65	72	66	62	58	50	47	44	34	33	31	20	19	18	12
3	75	66	59	54	66	58	53	48	44	40	37	30	28	26	18	17	16	10
4	68	58	51	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	63	52	44	38	55	46	39	34	35	30	27	24	21	19	14	13	12	8
6	58	46	38	33	50	41	34	30	31	26	23	22	19	17	13	11	10	7
7	53	41	34	29	46	37	30	26	28	23	20	20	17	14	12	10	9	6
8	49	37	30	25	43	33	27	23	25	21	18	18	15	13	11	9	8	5
9	45	34	27	22	40	30	24	20	23	19	16	16	13	11	10	8	7	5
10	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	8	6	4

POLAR GRAPH



Maximum Candela = 909.222 Located At Horizontal Angle = 90, Vertical Angle = 102.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)