

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-V-B-8-TW-OPEN-ITL85163.905.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.905 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-V-B-8-TW-OPEN

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 55.1 WATTS

[ABSOLUTE]LUMENS]6085

[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	6085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	51.8
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	2970	2815	2773
55	2774	2572	2526
65	2511	2277	2219
75	2080	1834	1845
85	1230	1245	1430

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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	388.023	388.023	388.023	388.023	388.023
2.5	387.509	387.509	387.509	387.509	387.509
5.0	385.965	385.965	385.965	385.965	385.965
7.5	383.392	383.392	383.392	383.392	383.906
10.0	379.275	378.760	379.789	379.789	379.789
12.5	375.158	374.129	375.673	375.673	375.158
15.0	369.497	367.439	369.497	370.012	369.497
17.5	362.807	360.748	362.807	363.322	362.807
20.0	355.088	352.515	355.088	355.602	355.602
22.5	345.825	343.252	346.339	346.854	346.339
25.0	336.047	333.988	336.561	337.591	337.076
27.5	326.269	323.696	326.784	327.298	327.298
30.0	314.947	312.889	315.462	315.977	315.462
32.5	303.626	301.567	304.140	305.170	304.140
35.0	291.789	289.731	292.304	292.819	292.304
37.5	278.409	276.865	279.439	279.953	279.439
40.0	265.544	264.000	266.058	267.088	266.573
42.5	252.678	251.135	252.678	254.222	253.193
45.0	238.784	237.754	239.298	240.327	239.813
47.5	224.889	223.860	225.404	225.918	225.404
50.0	209.965	209.450	211.509	212.023	211.509
52.5	196.070	195.556	196.585	197.614	197.614
55.0	181.661	181.146	182.175	183.205	183.205
57.5	166.737	166.737	168.281	168.795	168.795
60.0	152.327	151.813	153.357	154.386	154.386
62.5	136.889	137.404	138.433	139.462	139.977
65.0	121.965	122.480	124.023	124.538	125.053
67.5	107.041	107.556	109.099	110.129	110.129
70.0	92.117	93.146	95.205	95.719	96.749
72.5	77.193	78.737	80.795	82.339	83.883
75.0	62.784	64.842	66.901	69.474	71.017
77.5	48.889	50.947	54.550	57.123	58.152
80.0	35.509	38.082	42.199	45.286	46.316
82.5	23.672	26.246	30.877	34.994	36.538
85.0	13.380	16.468	21.614	26.246	27.790
87.5	4.632	8.234	14.409	18.526	20.070
90.0	0.000	3.088	8.234	12.351	13.895
92.5	26.000	350.000	686.000	788.000	697.000
95.0	54.000	414.000	788.000	1021.000	1090.000
97.5	85.000	446.000	832.000	1066.000	1144.000
100.0	118.000	481.000	854.000	1086.000	1164.000
102.5	151.000	486.000	863.000	1091.000	1169.000
105.0	185.000	499.000	866.000	1087.000	1162.000
107.5	220.000	515.000	876.000	1078.000	1150.000
110.0	257.000	532.000	866.000	1072.000	1138.000
112.5	291.000	553.000	862.000	1075.000	1134.000
115.0	325.000	575.000	862.000	1058.000	1130.000
117.5	360.000	599.000	863.000	1047.000	1109.000
120.0	394.000	626.000	868.000	1041.000	1099.000
122.5	428.000	653.000	874.000	1035.000	1090.000
125.0	460.000	680.000	880.000	1031.000	1082.000
127.5	495.000	706.000	888.000	1029.000	1076.000
130.0	525.000	730.000	896.000	1026.000	1070.000
132.5	556.000	750.000	906.000	1024.000	1065.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-V-B-8-TW-OPEN-ITL85163.905.IES****CANDELA TABULATION - (Cont.)**

135.0	585.000	765.000	916.000	1023.000	1061.000
137.5	613.000	777.000	927.000	1022.000	1056.000
140.0	641.000	788.000	940.000	1022.000	1052.000
142.5	667.000	797.000	950.000	1023.000	1049.000
145.0	691.000	803.000	960.000	1025.000	1046.000
147.5	714.000	807.000	965.000	1028.000	1046.000
150.0	735.000	811.000	963.000	1030.000	1046.000
152.5	755.000	814.000	956.000	1029.000	1045.000
155.0	773.000	819.000	947.000	1019.000	1040.000
157.5	789.000	825.000	933.000	1003.000	1026.000
160.0	803.000	830.000	917.000	983.000	1005.000
162.5	816.000	836.000	900.000	958.000	980.000
165.0	826.000	840.000	884.000	929.000	949.000
167.5	835.000	845.000	873.000	901.000	917.000
170.0	842.000	848.000	865.000	881.000	891.000
172.5	847.000	851.000	860.000	869.000	874.000
175.0	851.000	854.000	857.000	861.000	863.000
177.5	854.000	855.000	855.000	857.000	857.000
180.0	855.000	855.000	855.000	855.000	855.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-V-B-8-TW-OPEN-ITL85163.905.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	140.72	N.A.	2.30
0-30	295.56	N.A.	4.90
0-40	477.85	N.A.	7.90
0-60	825.22	N.A.	13.60
0-80	1018.79	N.A.	16.70
0-90	1043.24	N.A.	17.10
10-90	1006.6	N.A.	16.50
20-40	337.13	N.A.	5.50
20-50	521.51	N.A.	8.60
40-70	469.79	N.A.	7.70
60-80	193.57	N.A.	3.20
70-80	71.15	N.A.	1.20
80-90	24.45	N.A.	0.40
90-110	1472.12	N.A.	24.20
90-120	2271.82	N.A.	37.30
90-130	3026.02	N.A.	49.70
90-150	4281.49	N.A.	70.40
90-180	5041.48	N.A.	82.90
110-180	3569.36	N.A.	58.70
0-180	6084.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.64
10-20	104.08
20-30	154.84
30-40	182.29
40-50	184.39
50-60	162.98
60-70	122.42
70-80	71.15
80-90	24.45
90-100	646.11
100-110	826.01
110-120	799.70
120-130	754.20
130-140	682.15
140-150	573.32
150-160	426.14
160-170	251.78
170-180	82.07

IES INDOOR REPORT

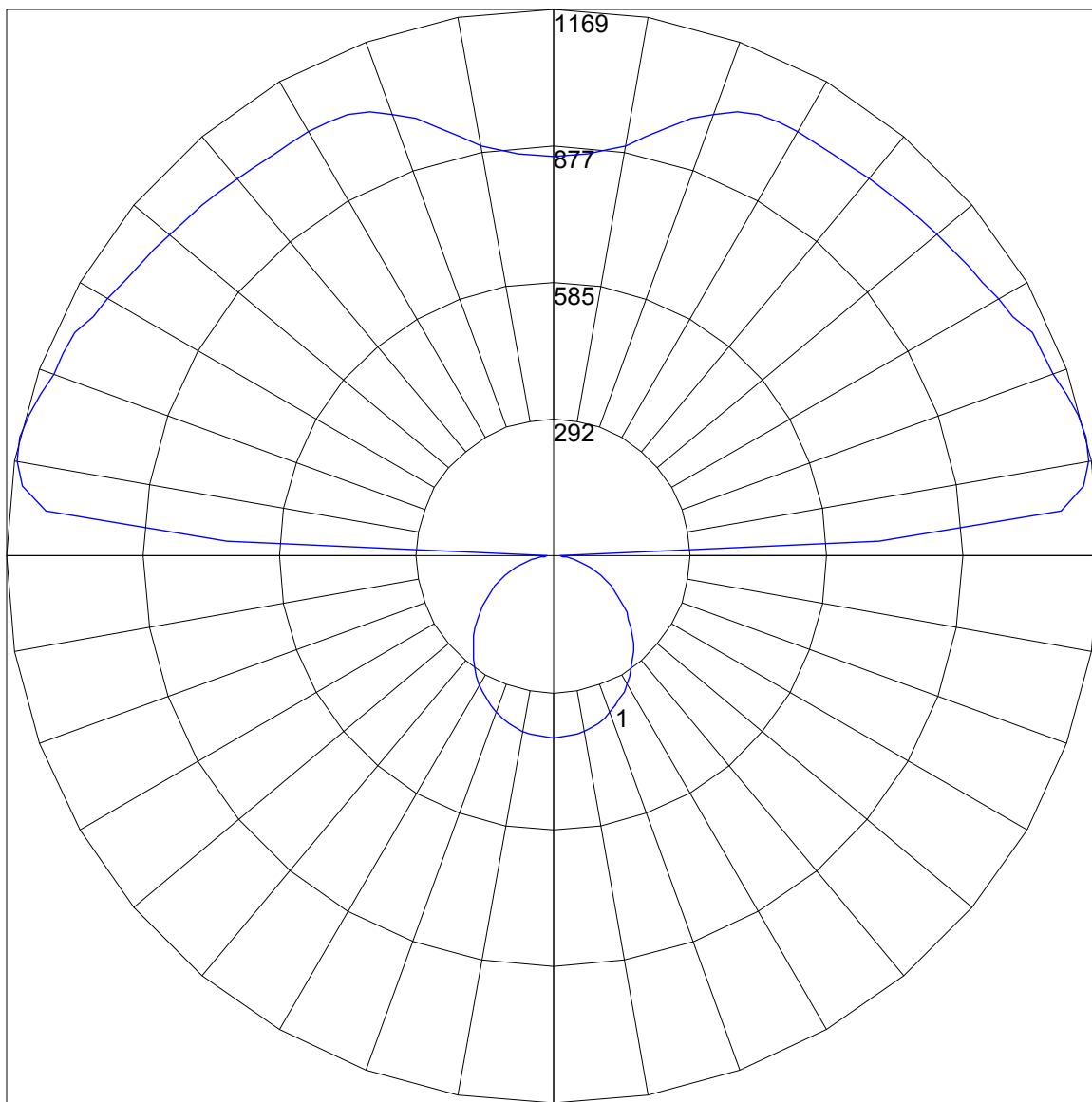
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	14
2	82	75	69	65	72	66	62	57	50	46	44	34	32	31	20	19	18	12
3	75	66	59	54	66	58	52	48	44	40	37	30	28	26	18	16	15	10
4	68	58	51	45	60	51	45	40	39	34	31	27	24	22	16	14	13	9
5	63	52	44	38	55	46	39	34	34	30	27	24	21	19	14	13	11	7
6	57	46	38	33	50	41	34	30	31	26	23	22	19	16	13	11	10	7
7	53	41	34	29	46	37	30	26	28	23	20	19	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	7	6	4

POLAR GRAPH



Maximum Candela = 1169 Located At Horizontal Angle = 90, Vertical Angle = 102.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)