

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-H-8-35-OPEN-ITL85163.006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.006 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-H-8-35-OPEN

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 52.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 55.2 WATTS

[ABSOLUTE]LUMENS]6619

[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	6619
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	52.4
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	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-V-H-8-35-OPEN-ITL85163.006.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	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-H-8-35-OPEN-ITL85163.006.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-H-8-35-OPEN-ITL85163.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	212.68	N.A.	3.20
0-30	446.70	N.A.	6.70
0-40	722.20	N.A.	10.90
0-60	1247.2	N.A.	18.80
0-80	1539.76	N.A.	23.30
0-90	1576.71	N.A.	23.80
10-90	1521.33	N.A.	23.00
20-40	509.52	N.A.	7.70
20-50	788.20	N.A.	11.90
40-70	710.03	N.A.	10.70
60-80	292.56	N.A.	4.40
70-80	107.53	N.A.	1.60
80-90	36.95	N.A.	0.60
90-110	1472.65	N.A.	22.20
90-120	2272.36	N.A.	34.30
90-130	3026.56	N.A.	45.70
90-150	4282.02	N.A.	64.70
90-180	5042.01	N.A.	76.20
110-180	3569.36	N.A.	53.90
0-180	6618.73	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	646.64
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

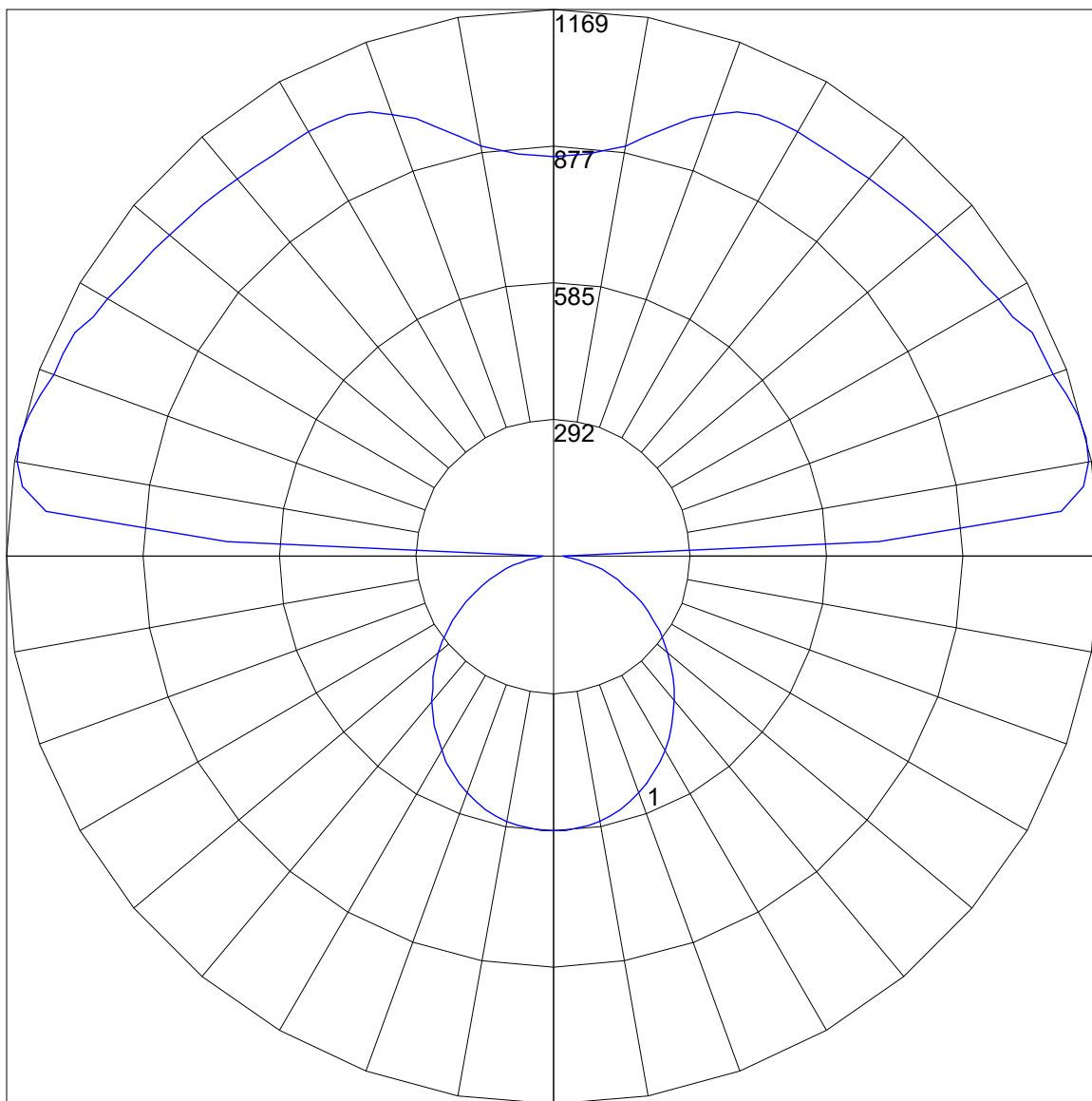
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	76	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	61	53	46	41	41	36	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	27	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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.)