

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 : HP-4-ID-RG-4FT-V-S-835-TG-RG-WCB-ITL85125-ITL90672.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]02/01/19

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-RG-4ft-V-S-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.8 WATTS

[ABSOLUTE]LUMENS]5409

[OTHER]see www.finelite.com for source files ITL85125 and ITL90672. 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	5409
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	51.6
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2366	3046	4183
55	1973	2258	3630
65	1693	1871	2871
75	1462	1554	1975
85	1173	1173	1329

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-S-835-TG-RG-WCB-ITL85125-ITL90672.004.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	669.670	669.670	669.670	669.670	669.670
2.5	665.577	665.986	667.214	668.852	668.852
5.0	653.706	655.344	659.437	664.349	665.986
7.5	636.514	639.789	647.976	657.390	661.074
10.0	615.638	619.732	632.421	647.976	653.706
12.5	591.488	595.990	614.001	634.058	642.654
15.0	566.928	571.840	593.125	616.048	627.509
17.5	540.321	544.823	568.974	596.809	611.136
20.0	511.258	516.580	543.186	574.705	592.306
22.5	480.967	487.926	516.170	551.782	572.658
25.0	451.086	458.863	488.335	526.404	551.373
27.5	420.386	428.982	459.682	500.615	528.450
30.0	390.095	397.463	431.029	474.418	505.937
32.5	358.167	367.991	401.557	447.811	482.605
35.0	325.830	336.473	372.903	420.795	456.817
37.5	294.721	305.772	343.431	393.370	431.847
40.0	263.611	275.482	315.596	367.173	406.469
42.5	231.274	245.600	286.943	340.566	381.090
45.0	200.983	215.310	258.699	313.140	355.302
47.5	180.107	187.475	232.092	286.943	328.695
50.0	164.552	167.827	205.486	261.155	302.089
52.5	150.635	152.682	179.288	234.958	275.891
55.0	135.899	138.764	155.547	210.398	250.103
57.5	123.210	125.256	137.127	185.838	223.496
60.0	110.520	111.748	122.391	162.506	198.118
62.5	98.240	99.059	108.064	139.992	171.920
65.0	85.960	87.597	94.966	118.707	145.723
67.5	75.317	76.546	81.867	98.240	121.572
70.0	65.084	65.493	69.587	81.457	97.831
72.5	55.260	55.669	58.535	66.721	73.680
75.0	45.436	45.845	48.301	53.623	61.400
77.5	36.431	36.840	38.068	42.161	48.711
80.0	28.244	28.244	28.653	31.519	35.612
82.5	20.057	19.648	20.467	21.695	23.741
85.0	12.280	12.280	12.280	12.689	13.917
87.5	4.912	4.912	4.503	4.912	4.912
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	32.000	34.000	38.000	39.000
95.0	71.000	72.000	76.000	81.000	82.000
97.5	115.000	116.000	121.000	126.000	125.000
100.0	160.000	162.000	167.000	172.000	171.000
102.5	206.000	210.000	215.000	220.000	220.000
105.0	257.000	261.000	266.000	270.000	269.000
107.5	311.000	314.000	317.000	321.000	321.000
110.0	369.000	369.000	372.000	376.000	375.000
112.5	427.000	425.000	429.000	435.000	430.000
115.0	485.000	483.000	485.000	490.000	486.000
117.5	543.000	544.000	545.000	546.000	543.000
120.0	602.000	604.000	603.000	602.000	600.000
122.5	662.000	664.000	664.000	661.000	658.000
125.0	723.000	726.000	726.000	720.000	717.000
127.5	784.000	786.000	788.000	779.000	773.000
130.0	843.000	844.000	846.000	840.000	835.000
132.5	903.000	902.000	903.000	899.000	893.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-S-835-TG-RG-WCB-ITL85125-ITL90672.004.IES****CANDELA TABULATION - (Cont.)**

135.0	963.000	958.000	961.000	958.000	951.000
137.5	1021.000	1013.000	1018.000	1014.000	1007.000
140.0	1079.000	1070.000	1076.000	1072.000	1064.000
142.5	1132.000	1125.000	1132.000	1126.000	1119.000
145.0	1189.000	1177.000	1185.000	1179.000	1172.000
147.5	1240.000	1228.000	1236.000	1230.000	1223.000
150.0	1290.000	1277.000	1285.000	1279.000	1273.000
152.5	1334.000	1324.000	1332.000	1325.000	1320.000
155.0	1377.000	1367.000	1374.000	1368.000	1363.000
157.5	1419.000	1409.000	1415.000	1409.000	1405.000
160.0	1455.000	1447.000	1453.000	1447.000	1444.000
162.5	1489.000	1480.000	1487.000	1481.000	1479.000
165.0	1517.000	1510.000	1514.000	1511.000	1510.000
167.5	1542.000	1536.000	1539.000	1537.000	1537.000
170.0	1563.000	1559.000	1561.000	1559.000	1559.000
172.5	1578.000	1578.000	1577.000	1577.000	1577.000
175.0	1590.000	1590.000	1590.000	1589.000	1590.000
177.5	1597.000	1598.000	1598.000	1598.000	1598.000
180.0	1600.000	1600.000	1600.000	1600.000	1600.000

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Zone	Lumens	%Lamp	%Fixt
0-20	228.96	N.A.	4.20
0-30	455.72	N.A.	8.40
0-40	693.31	N.A.	12.80
0-60	1056.45	N.A.	19.50
0-80	1213.95	N.A.	22.40
0-90	1228.47	N.A.	22.70
10-90	1166.32	N.A.	21.60
20-40	464.36	N.A.	8.60
20-50	670.68	N.A.	12.40
40-70	466.89	N.A.	8.60
60-80	157.50	N.A.	2.90
70-80	53.74	N.A.	1.00
80-90	14.52	N.A.	0.30
90-110	366.84	N.A.	6.80
90-120	848.57	N.A.	15.70
90-130	1494.82	N.A.	27.60
90-150	2972.13	N.A.	55.00
90-180	4180.24	N.A.	77.30
110-180	3813.4	N.A.	70.50
0-180	5408.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.15
10-20	166.81
20-30	226.77
30-40	237.59
40-50	206.32
50-60	156.82
60-70	103.75
70-80	53.74
80-90	14.52
90-100	85.72
100-110	281.12
110-120	481.73
120-130	646.25
130-140	739.31
140-150	738.00
150-160	631.02
160-170	426.27
170-180	150.82

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

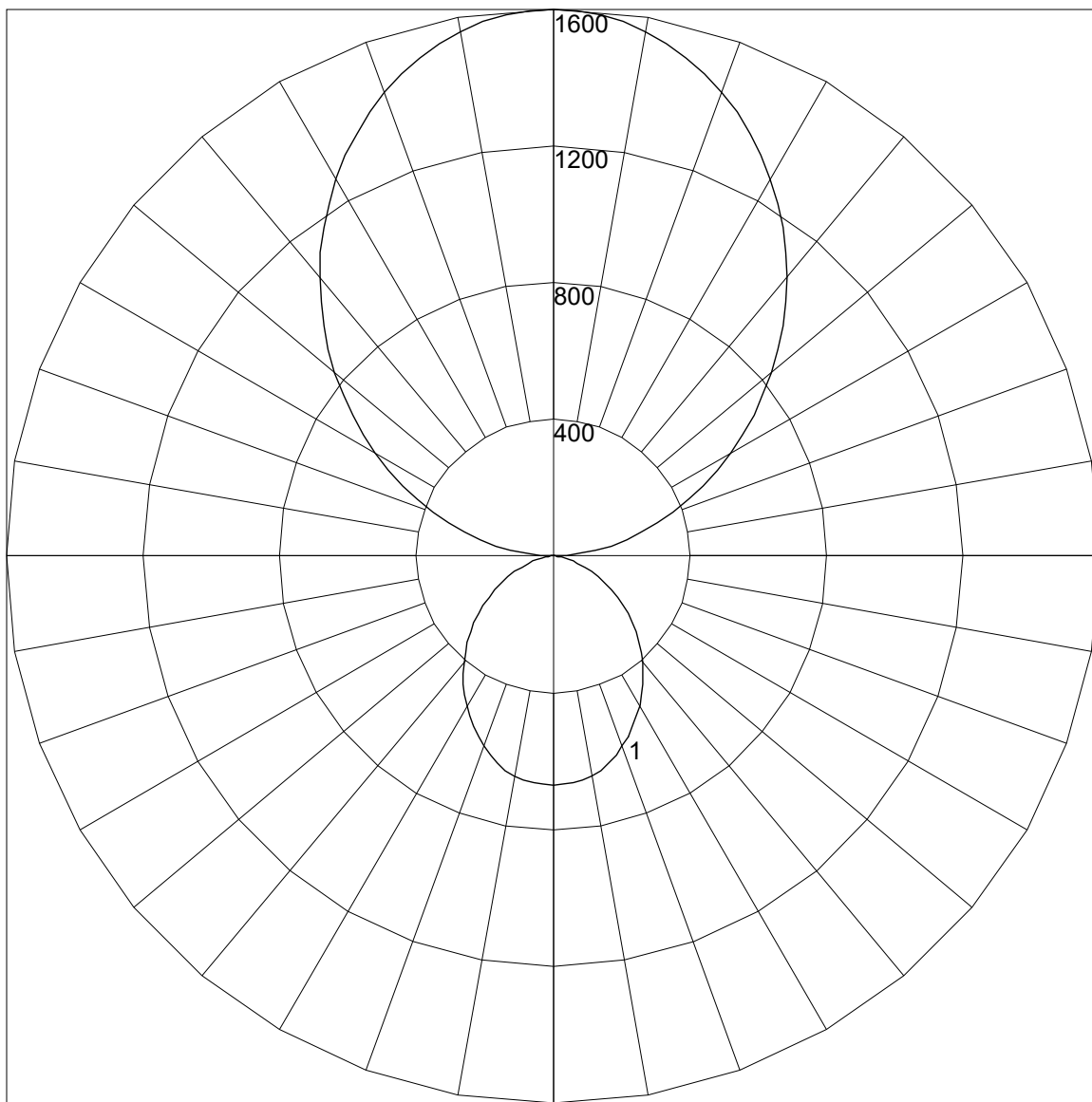
Effective Floor Cavity Reflectance 0.20

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	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	28	27	27	20
2	84	77	71	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	22	21	20	15
4	70	60	53	47	62	54	48	43	42	37	34	30	28	26	20	19	17	13
5	64	54	46	40	57	48	42	37	37	33	29	27	25	22	18	17	15	11
6	59	48	40	35	53	43	37	32	34	29	26	25	22	20	17	15	14	10
7	55	43	36	31	49	39	32	28	30	26	23	23	20	17	15	13	12	9
8	51	39	32	27	45	35	29	25	28	23	20	21	18	15	14	12	11	8
9	47	36	29	24	42	32	26	22	25	21	18	19	16	14	13	11	10	8
10	44	33	26	21	39	29	24	20	23	19	16	18	15	13	12	10	9	7

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POLAR GRAPH



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180

1 - Vertical Plane Through Horizontal Angles (90 - 270)