

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-B-B-835-TG-RG-WCB-ITL85125-ITL90672.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.002 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-B-B-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 36.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 39.4 WATTS

[ABSOLUTE]LUMENS]3695

[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	3695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	36.9
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
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	2975	3829	5259
55	2480	2838	4564
65	2129	2352	3609
75	1837	1953	2483
85	1475	1475	1671

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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	841.859	841.859	841.859	841.859	841.859
2.5	836.714	837.228	838.772	840.830	840.830
5.0	821.791	823.849	828.995	835.170	837.228
7.5	800.178	804.295	814.587	826.422	831.053
10.0	773.934	779.080	795.032	814.587	821.791
12.5	743.574	749.234	771.876	797.091	807.897
15.0	712.699	718.874	745.632	774.449	788.857
17.5	679.251	684.911	715.272	750.264	768.274
20.0	642.715	649.405	682.853	722.476	744.603
22.5	604.636	613.384	648.890	693.659	719.903
25.0	567.072	576.849	613.899	661.755	693.145
27.5	528.478	539.284	577.878	629.336	664.328
30.0	490.399	499.661	541.857	596.403	636.026
32.5	450.261	462.611	504.807	562.955	606.694
35.0	409.609	422.988	468.786	528.992	574.276
37.5	370.500	384.394	431.736	494.515	542.886
40.0	331.392	346.315	396.744	461.582	510.982
42.5	290.740	308.750	360.723	428.134	479.078
45.0	252.661	270.671	325.217	393.657	446.659
47.5	226.417	235.679	291.769	360.723	413.211
50.0	206.863	210.979	258.321	328.305	379.763
52.5	189.367	191.940	225.388	295.371	346.830
55.0	170.842	174.444	195.542	264.496	314.411
57.5	154.890	157.463	172.386	233.621	280.963
60.0	138.938	140.481	153.861	204.290	249.059
62.5	123.500	124.529	135.850	175.988	216.125
65.0	108.063	110.121	119.383	149.229	183.192
67.5	94.683	96.227	102.917	123.500	152.832
70.0	81.819	82.333	87.479	102.402	122.986
72.5	69.469	69.983	73.585	83.877	92.625
75.0	57.119	57.633	60.721	67.410	77.188
77.5	45.798	46.313	47.856	53.002	61.236
80.0	35.506	35.506	36.021	39.623	44.769
82.5	25.215	24.700	25.729	27.273	29.846
85.0	15.438	15.438	15.438	15.952	17.496
87.5	6.175	6.175	5.660	6.175	6.175
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.438	16.467	17.496	19.554	20.069
95.0	36.535	37.050	39.108	41.681	42.196
97.5	59.177	59.692	62.265	64.838	64.323
100.0	82.333	83.363	85.936	88.508	87.994
102.5	106.004	108.063	110.636	113.209	113.209
105.0	132.248	134.306	136.879	138.938	138.423
107.5	160.036	161.579	163.123	165.181	165.181
110.0	189.881	189.881	191.425	193.484	192.969
112.5	219.727	218.698	220.756	223.844	221.271
115.0	249.573	248.544	249.573	252.146	250.088
117.5	279.419	279.934	280.448	280.963	279.419
120.0	309.780	310.809	310.294	309.780	308.750
122.5	340.655	341.684	341.684	340.140	338.596
125.0	372.044	373.588	373.588	370.500	368.957
127.5	403.434	404.463	405.492	400.861	397.773
130.0	433.794	434.309	435.338	432.250	429.678
132.5	464.669	464.155	464.669	462.611	459.524

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-B-835-TG-RG-WCB-ITL85125-ITL90672.002.IES****CANDELA TABULATION - (Cont.)**

135.0	495.544	492.971	494.515	492.971	489.369
137.5	525.390	521.274	523.846	521.788	518.186
140.0	555.236	550.605	553.692	551.634	547.517
142.5	582.509	578.907	582.509	579.422	575.819
145.0	611.840	605.665	609.782	606.694	603.092
147.5	638.084	631.909	636.026	632.938	629.336
150.0	663.813	657.124	661.240	658.153	655.065
152.5	686.455	681.309	685.426	681.824	679.251
155.0	708.582	703.436	707.038	703.951	701.378
157.5	730.195	725.049	728.136	725.049	722.990
160.0	748.720	744.603	747.691	744.603	743.059
162.5	766.216	761.584	765.186	762.099	761.070
165.0	780.624	777.022	779.080	777.536	777.022
167.5	793.489	790.401	791.945	790.916	790.916
170.0	804.295	802.236	803.266	802.236	802.236
172.5	812.014	812.014	811.499	811.499	811.499
175.0	818.188	818.188	818.188	817.674	818.188
177.5	821.791	822.305	822.305	822.305	822.305
180.0	823.334	823.334	823.334	823.334	823.334

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-B-835-TG-RG-WCB-ITL85125-ITL90672.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	287.83	N.A.	7.80
0-30	572.90	N.A.	15.50
0-40	871.58	N.A.	23.60
0-60	1328.09	N.A.	35.90
0-80	1526.09	N.A.	41.30
0-90	1544.34	N.A.	41.80
10-90	1466.21	N.A.	39.70
20-40	583.76	N.A.	15.80
20-50	843.13	N.A.	22.80
40-70	586.94	N.A.	15.90
60-80	198.00	N.A.	5.40
70-80	67.56	N.A.	1.80
80-90	18.25	N.A.	0.50
90-110	188.77	N.A.	5.10
90-120	436.66	N.A.	11.80
90-130	769.21	N.A.	20.80
90-150	1529.41	N.A.	41.40
90-180	2151.08	N.A.	58.20
110-180	1962.31	N.A.	53.10
0-180	3695.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.13
10-20	209.70
20-30	285.08
30-40	298.68
40-50	259.37
50-60	197.14
60-70	130.43
70-80	67.56
80-90	18.25
90-100	44.11
100-110	144.66
110-120	247.89
120-130	332.55
130-140	380.44
140-150	379.76
150-160	324.71
160-170	219.35
170-180	77.61

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

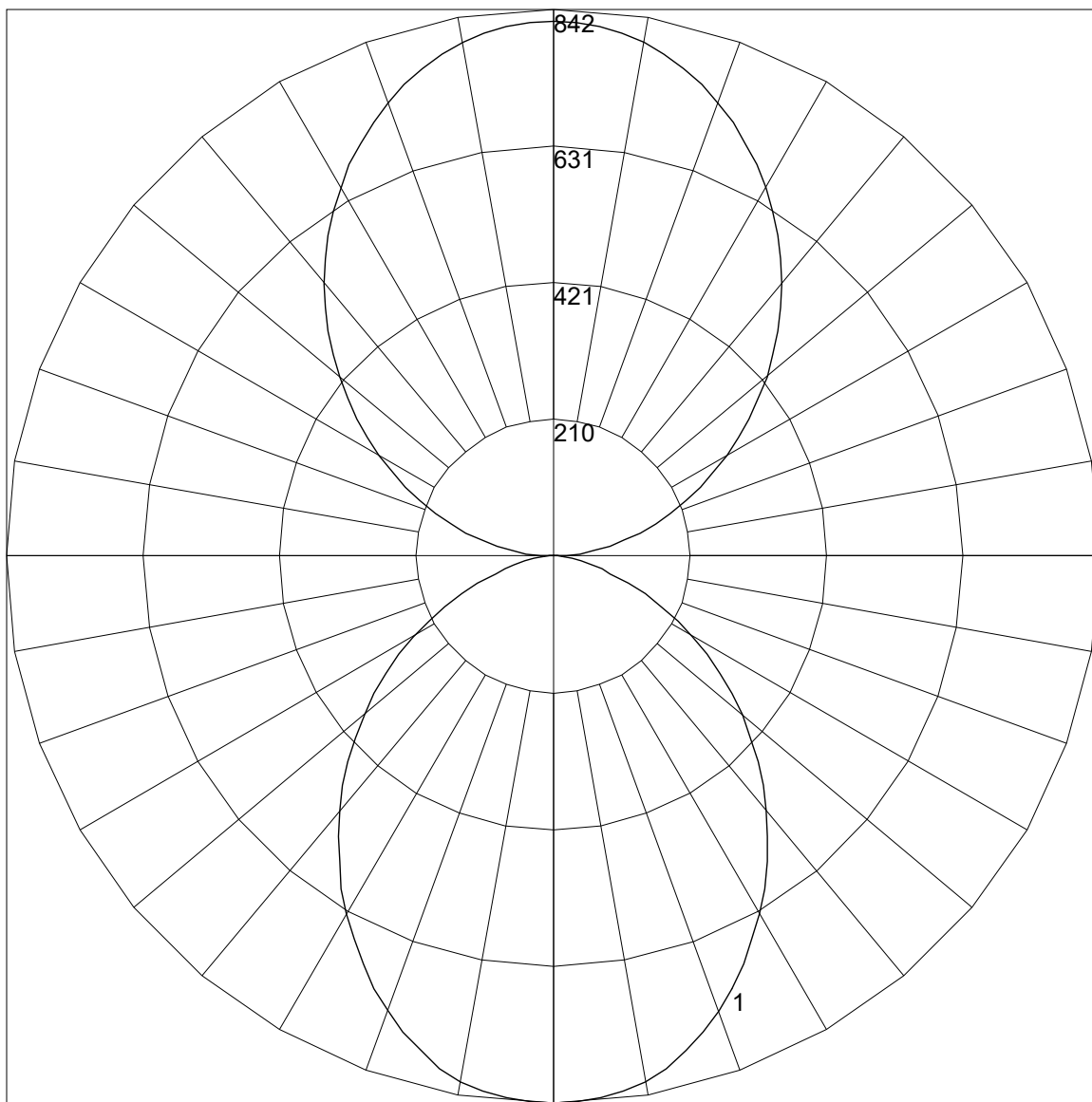
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	89	85	88	85	81	79	70	68	66	56	55	53	44	43	42	36
2	88	81	76	71	80	74	70	65	62	58	55	50	48	45	39	38	36	31
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	31	27
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	29	28	24
5	68	57	50	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21
6	63	52	44	38	58	48	41	36	40	35	31	33	29	26	26	24	22	19
7	58	47	39	34	53	43	36	32	36	31	28	30	26	24	24	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	19	17	15	13

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POLAR GRAPH



Maximum Candela = 841.859 Located At Horizontal Angle = 0, Vertical Angle = 0

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