

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-H-V-835-TG-RG-WCB-ITL85125-ITL90672.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.009 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-H-V-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 67.1 WATTS

[ABSOLUTE]LUMENS]6252

[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	6252
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	65.5
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	5781	7441	10220
55	4819	5516	8869
65	4137	4570	7013
75	3571	3796	4825
85	2866	2866	3248

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-V-835-TG-RG-WCB-ITL85125-ITL90672.009.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	1636.000	1636.000	1636.000	1636.000	1636.000
2.5	1626.000	1627.000	1630.000	1634.000	1634.000
5.0	1597.000	1601.000	1611.000	1623.000	1627.000
7.5	1555.000	1563.000	1583.000	1606.000	1615.000
10.0	1504.000	1514.000	1545.000	1583.000	1597.000
12.5	1445.000	1456.000	1500.000	1549.000	1570.000
15.0	1385.000	1397.000	1449.000	1505.000	1533.000
17.5	1320.000	1331.000	1390.000	1458.000	1493.000
20.0	1249.000	1262.000	1327.000	1404.000	1447.000
22.5	1175.000	1192.000	1261.000	1348.000	1399.000
25.0	1102.000	1121.000	1193.000	1286.000	1347.000
27.5	1027.000	1048.000	1123.000	1223.000	1291.000
30.0	953.000	971.000	1053.000	1159.000	1236.000
32.5	875.000	899.000	981.000	1094.000	1179.000
35.0	796.000	822.000	911.000	1028.000	1116.000
37.5	720.000	747.000	839.000	961.000	1055.000
40.0	644.000	673.000	771.000	897.000	993.000
42.5	565.000	600.000	701.000	832.000	931.000
45.0	491.000	526.000	632.000	765.000	868.000
47.5	440.000	458.000	567.000	701.000	803.000
50.0	402.000	410.000	502.000	638.000	738.000
52.5	368.000	373.000	438.000	574.000	674.000
55.0	332.000	339.000	380.000	514.000	611.000
57.5	301.000	306.000	335.000	454.000	546.000
60.0	270.000	273.000	299.000	397.000	484.000
62.5	240.000	242.000	264.000	342.000	420.000
65.0	210.000	214.000	232.000	290.000	356.000
67.5	184.000	187.000	200.000	240.000	297.000
70.0	159.000	160.000	170.000	199.000	239.000
72.5	135.000	136.000	143.000	163.000	180.000
75.0	111.000	112.000	118.000	131.000	150.000
77.5	89.000	90.000	93.000	103.000	119.000
80.0	69.000	69.000	70.000	77.000	87.000
82.5	49.000	48.000	50.000	53.000	58.000
85.0	30.000	30.000	30.000	31.000	34.000
87.5	12.000	12.000	11.000	12.000	12.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.332	24.888	26.444	29.555	30.332
95.0	55.220	55.998	59.109	62.998	63.776
97.5	89.441	90.219	94.108	97.997	97.219
100.0	124.440	125.996	129.884	133.773	132.995
102.5	160.217	163.328	167.216	171.105	171.105
105.0	199.882	202.993	206.882	209.993	209.215
107.5	241.881	244.214	246.547	249.658	249.658
110.0	286.990	286.990	289.323	292.434	291.657
112.5	332.100	330.544	333.655	338.322	334.433
115.0	377.209	375.654	377.209	381.098	377.987
117.5	422.319	423.097	423.874	424.652	422.319
120.0	468.206	469.762	468.984	468.206	466.651
122.5	514.871	516.427	516.427	514.093	511.760
125.0	562.314	564.647	564.647	559.981	557.648
127.5	609.757	611.312	612.868	605.868	601.202
130.0	655.644	656.422	657.977	653.311	649.422
132.5	702.309	701.531	702.309	699.198	694.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-V-835-TG-RG-WCB-ITL85125-ITL90672.009.IES****CANDELA TABULATION - (Cont.)**

135.0	748.974	745.085	747.419	745.085	739.641
137.5	794.084	787.862	791.750	788.639	783.195
140.0	839.193	832.193	836.860	833.749	827.527
142.5	880.414	874.970	880.414	875.748	870.303
145.0	924.746	915.413	921.635	916.968	911.524
147.5	964.411	955.078	961.300	956.634	951.189
150.0	1003.299	993.188	999.410	994.744	990.077
152.5	1037.520	1029.742	1035.964	1030.520	1026.631
155.0	1070.963	1063.186	1068.630	1063.963	1060.075
157.5	1103.629	1095.851	1100.518	1095.851	1092.740
160.0	1131.628	1125.406	1130.072	1125.406	1123.072
162.5	1158.071	1151.072	1156.516	1151.849	1150.294
165.0	1179.848	1174.404	1177.515	1175.182	1174.404
167.5	1199.292	1194.626	1196.959	1195.403	1195.403
170.0	1215.625	1212.514	1214.069	1212.514	1212.514
172.5	1227.291	1227.291	1226.513	1226.513	1226.513
175.0	1236.624	1236.624	1236.624	1235.846	1236.624
177.5	1242.068	1242.846	1242.846	1242.846	1242.846
180.0	1244.402	1244.402	1244.402	1244.402	1244.402

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-V-835-TG-RG-WCB-ITL85125-ITL90672.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.34	N.A.	8.90
0-30	1113.33	N.A.	17.80
0-40	1693.76	N.A.	27.10
0-60	2580.91	N.A.	41.30
0-80	2965.68	N.A.	47.40
0-90	3001.14	N.A.	48.00
10-90	2849.3	N.A.	45.60
20-40	1134.42	N.A.	18.10
20-50	1638.46	N.A.	26.20
40-70	1140.62	N.A.	18.20
60-80	384.77	N.A.	6.20
70-80	131.30	N.A.	2.10
80-90	35.46	N.A.	0.60
90-110	285.31	N.A.	4.60
90-120	659.98	N.A.	10.60
90-130	1162.6	N.A.	18.60
90-150	2311.58	N.A.	37.00
90-180	3251.18	N.A.	52.00
110-180	2965.88	N.A.	47.40
0-180	6252.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.83
10-20	407.50
20-30	553.99
30-40	580.43
40-50	504.04
50-60	383.11
60-70	253.47
70-80	131.30
80-90	35.46
90-100	66.67
100-110	218.64
110-120	374.67
120-130	502.62
130-140	575.00
140-150	573.98
150-160	490.78
160-170	331.53
170-180	117.30

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-V-835-TG-RG-WCB-ITL85125-ITL90672.009.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

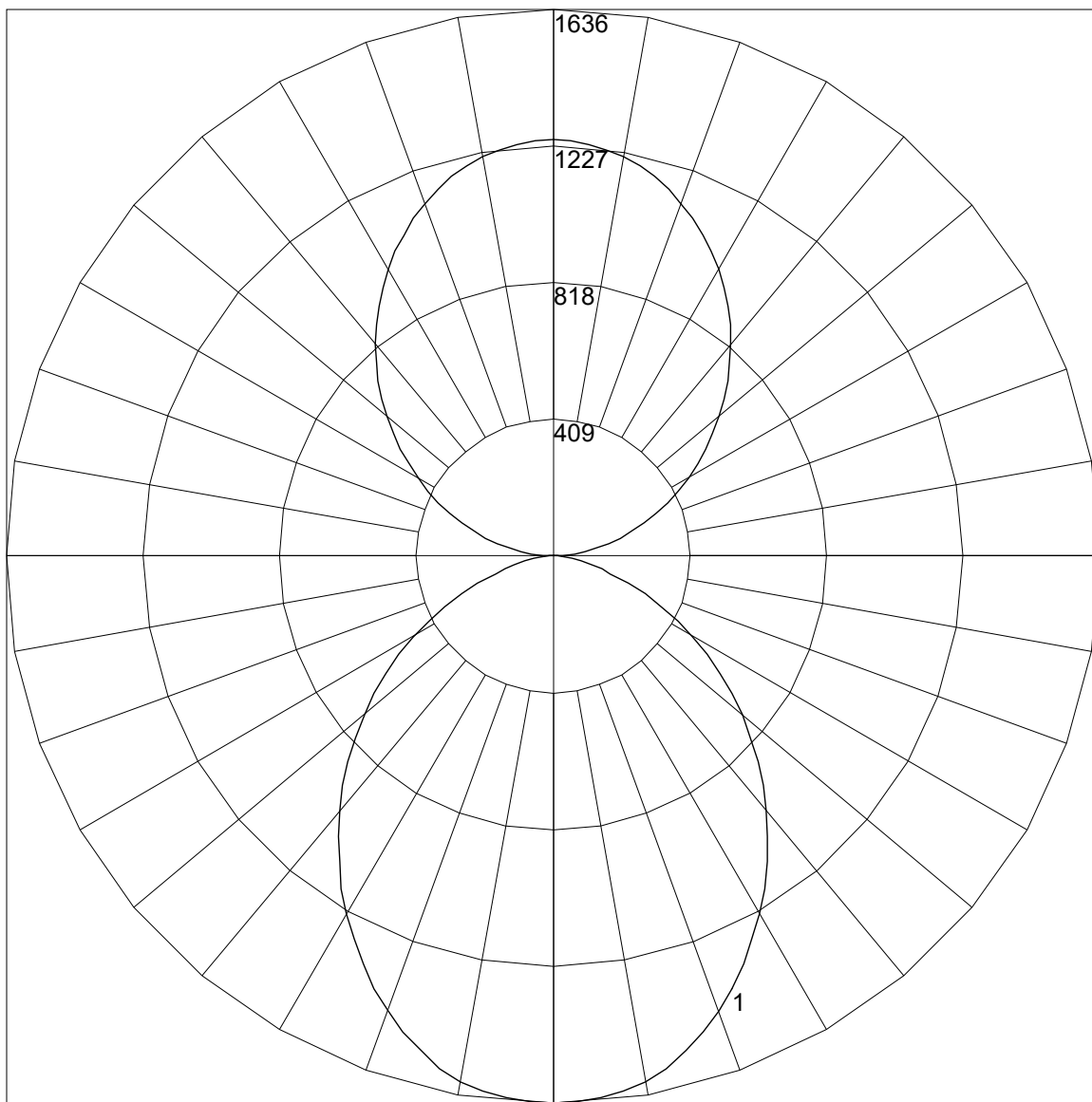
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	87	90	87	83	81	73	71	69	60	59	57	49	48	47	42
2	90	83	77	72	82	76	71	67	65	61	58	54	51	49	44	42	40	36
3	82	73	66	61	75	68	62	57	58	53	49	48	45	42	39	37	35	31
4	76	65	58	52	69	60	54	49	52	47	43	43	40	37	36	33	31	27
5	70	58	51	45	64	54	47	42	46	41	37	39	35	32	32	30	27	24
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	24	22
7	60	48	40	35	55	45	38	33	38	33	29	33	29	26	27	24	22	19
8	55	44	36	31	51	41	34	29	35	30	26	30	26	23	25	22	20	18
9	52	40	33	28	48	37	31	26	32	27	24	28	24	21	23	20	18	16
10	48	37	30	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-V-835-TG-RG-WCB-ITL85125-ITL90672.009.IES

POLAR GRAPH



Maximum Candela = 1636 Located At Horizontal Angle = 0, Vertical Angle = 0

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