

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-2-ID-RG-4FT-H-V-835-WSOTG-F-ITL90350 ITL89456.009.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL90350 ITL89456.009 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]05/31/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-H-V-835-WSO

[INPUT_ELECTRICAL]120.0 VOLTS, 64.1 WATTS

[INPUT_ELECTRICAL]277.0 VOLTS, 66.0 WATTS

[OTHER]see www.finelite.com for source file ITL89456. 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

[ABSOLUTE LUMENS]6012

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	64.1
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18357	13054	10349
55	16517	10376	8073
65	14621	7867	6143
75	12436	6042	5514
85	9929	4877	4529

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1529.000	1529.000	1529.000	1529.000	1529.000
2.5	1527.000	1526.000	1525.000	1524.000	1523.000
5.0	1520.000	1518.000	1513.000	1507.000	1504.000
7.5	1508.000	1503.000	1489.000	1477.000	1471.000
10.0	1491.000	1479.000	1458.000	1436.000	1427.000
12.5	1470.000	1448.000	1417.000	1385.000	1372.000
15.0	1443.000	1412.000	1370.000	1327.000	1309.000
17.5	1413.000	1372.000	1316.000	1263.000	1240.000
20.0	1378.000	1327.000	1258.000	1195.000	1168.000
22.5	1336.000	1277.000	1196.000	1122.000	1092.000
25.0	1293.000	1224.000	1131.000	1049.000	1017.000
27.5	1246.000	1168.000	1064.000	975.000	941.000
30.0	1196.000	1111.000	997.000	900.000	867.000
32.5	1141.000	1053.000	929.000	826.000	795.000
35.0	1086.000	993.000	862.000	757.000	722.000
37.5	1030.000	932.000	796.000	690.000	656.000
40.0	972.000	870.000	731.000	627.000	594.000
42.5	914.000	810.000	668.000	567.000	536.000
45.0	855.000	749.000	608.000	511.000	482.000
47.5	795.000	691.000	550.000	458.000	433.000
50.0	736.000	632.000	494.000	408.000	386.000
52.5	681.000	574.000	442.000	364.000	344.000
55.0	624.000	516.000	392.000	322.000	305.000
57.5	568.000	462.000	344.000	283.000	268.000
60.0	513.000	410.000	299.000	246.000	233.000
62.5	459.000	359.000	258.000	212.000	200.000
65.0	407.000	311.000	219.000	178.000	171.000
67.5	354.000	265.000	183.000	154.000	152.000
70.0	305.000	221.000	150.000	134.000	132.000
72.5	258.000	180.000	124.000	115.000	112.000
75.0	212.000	141.000	103.000	95.000	94.000
77.5	171.000	105.000	82.000	77.000	76.000
80.0	131.000	74.000	63.000	59.000	59.000
82.5	92.000	52.000	45.000	42.000	42.000
85.0	57.000	32.000	28.000	26.000	26.000
87.5	24.000	14.000	12.000	11.000	11.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	13.999	24.110	24.110	23.332	23.332
95.0	36.554	64.553	64.553	53.665	52.887
97.5	61.442	105.774	129.884	93.330	87.886
100.0	87.108	137.662	258.213	150.106	132.218
102.5	115.107	167.994	356.987	265.213	210.770
105.0	142.328	200.660	413.763	432.429	356.210
107.5	169.549	232.547	448.762	583.313	543.647
110.0	196.771	262.102	479.872	671.976	678.976
112.5	223.992	290.878	516.426	730.307	759.862
115.0	251.991	318.100	559.980	772.306	815.082
117.5	279.990	345.321	607.423	811.971	857.858
120.0	307.989	374.098	646.310	853.970	900.635
122.5	333.655	398.208	674.309	913.079	945.744
125.0	357.765	421.541	689.864	977.632	1010.297
127.5	380.320	443.318	699.197	1021.186	1081.851
130.0	398.986	461.984	704.642	1039.074	1133.182
132.5	417.652	479.094	706.197	1032.074	1149.515

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-H-V-835-WSOTG-F-ITL90350 ITL89456.009.IES****CANDELA TABULATION - (Cont.)**

135.0	433.985	493.094	705.419	1010.297	1133.182
137.5	448.762	506.315	703.086	980.743	1098.961
140.0	463.539	517.982	699.197	948.077	1055.407
142.5	477.539	528.870	693.753	911.523	1008.742
145.0	492.316	538.981	688.309	876.524	961.299
147.5	504.760	546.758	682.087	840.748	913.079
150.0	517.204	555.314	674.309	808.860	867.969
152.5	528.870	561.536	664.976	778.528	825.971
155.0	539.759	566.202	655.643	748.973	787.083
157.5	549.869	572.424	647.088	721.752	752.084
160.0	558.425	576.313	636.977	695.309	719.419
162.5	566.202	579.424	626.867	672.754	689.087
165.0	572.424	582.535	616.756	650.977	663.421
167.5	577.868	584.868	608.978	632.311	640.866
170.0	582.535	587.201	603.534	617.534	622.978
172.5	584.868	588.757	597.312	605.090	609.756
175.0	587.979	589.535	593.423	597.312	598.868
177.5	589.535	589.535	591.090	591.090	591.868
180.0	590.312	590.312	590.312	590.312	590.312

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-H-V-835-WSOTG-F-ITL90350 ITL89456.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	527.37	N.A.	8.80
0-30	1050.87	N.A.	17.50
0-40	1600.47	N.A.	26.60
0-60	2470.38	N.A.	41.10
0-80	2851.03	N.A.	47.40
0-90	2887.32	N.A.	48.00
10-90	2744.7	N.A.	45.70
20-40	1073.1	N.A.	17.80
20-50	1563.06	N.A.	26.00
40-70	1119.36	N.A.	18.60
60-80	380.65	N.A.	6.30
70-80	131.21	N.A.	2.20
80-90	36.28	N.A.	0.60
90-110	408.93	N.A.	6.80
90-120	948.46	N.A.	15.80
90-130	1565.19	N.A.	26.00
90-150	2586.44	N.A.	43.00
90-180	3124.85	N.A.	52.00
110-180	2715.92	N.A.	45.20
0-180	6012.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.62
10-20	384.75
20-30	523.50
30-40	549.60
40-50	489.96
50-60	379.95
60-70	249.45
70-80	131.21
80-90	36.28
90-100	71.33
100-110	337.60
110-120	539.53
120-130	616.74
130-140	576.42
140-150	444.83
150-160	305.77
160-170	175.71
170-180	56.93

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

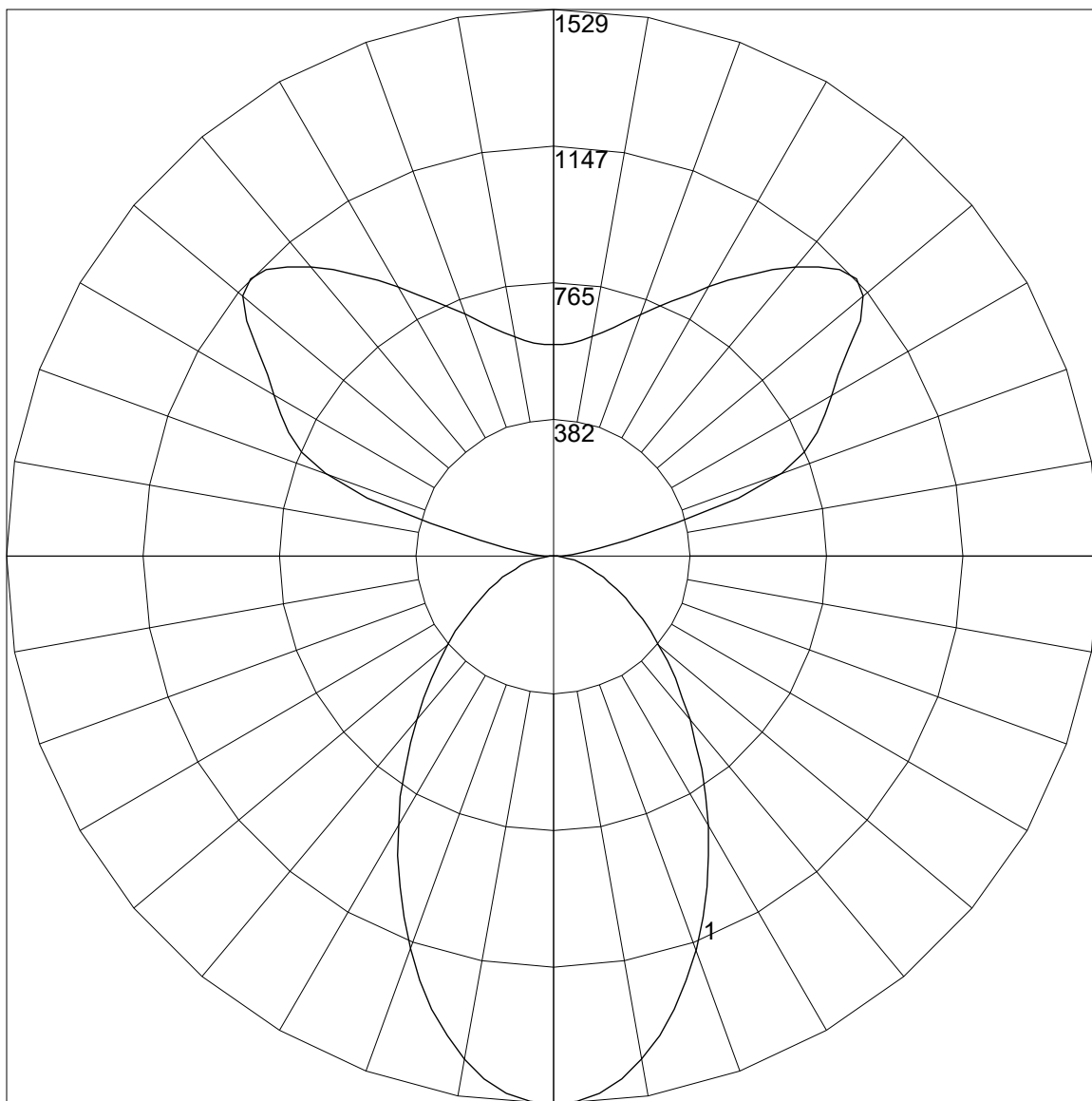
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	87	90	86	83	81	73	71	69	60	59	57	49	48	47	41
2	90	83	77	72	82	76	71	67	64	61	58	54	51	49	44	42	40	36
3	82	73	66	60	75	68	62	57	57	53	49	48	45	42	39	37	35	31
4	75	65	57	52	69	60	54	49	51	46	42	43	39	36	35	33	31	27
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	32	29	27	24
6	64	52	45	39	59	49	42	37	42	37	33	35	31	28	29	26	24	21
7	59	48	40	34	55	44	37	33	38	33	29	32	28	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	32	28	48	37	31	26	32	27	23	28	24	21	23	20	18	16
10	48	37	30	25	45	34	28	24	30	25	21	26	22	19	22	19	16	14

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POLAR GRAPH



Maximum Candela = 1529 Located At Horizontal Angle = 0, Vertical Angle = 0

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