

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-H-835-WSOTG-F-ITL90350 ITL89456.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350 ITL89456.003 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-H-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.5 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]5370

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	55.6
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	14275	10151	8047
55	12844	8068	6278
65	11370	6118	4777
75	9670	4698	4288
85	7721	3793	3522

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-H-H-835-WSOTG-F-ITL90350 ITL89456.003.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	1188.987	1188.987	1188.987	1188.987	1188.987
2.5	1187.432	1186.654	1185.876	1185.099	1184.321
5.0	1181.988	1180.433	1176.545	1171.879	1169.546
7.5	1172.657	1168.769	1157.882	1148.550	1143.885
10.0	1159.437	1150.106	1133.775	1116.668	1109.669
12.5	1143.107	1125.999	1101.893	1077.009	1066.900
15.0	1122.111	1098.005	1065.345	1031.907	1017.910
17.5	1098.783	1066.900	1023.353	982.139	964.254
20.0	1071.566	1031.907	978.251	929.260	908.265
22.5	1038.905	993.026	930.038	872.494	849.165
25.0	1005.468	951.812	879.493	815.727	790.843
27.5	968.919	908.265	827.392	758.183	731.744
30.0	930.038	863.940	775.291	699.861	674.200
32.5	887.269	818.838	722.413	642.317	618.211
35.0	844.500	772.181	670.312	588.661	561.444
37.5	800.953	724.745	618.989	536.560	510.121
40.0	755.850	676.533	568.443	487.570	461.909
42.5	710.748	629.875	519.453	440.913	416.806
45.0	664.868	582.440	472.795	397.366	374.815
47.5	618.211	537.338	427.693	356.152	336.711
50.0	572.331	491.458	384.146	317.271	300.163
52.5	529.562	446.356	343.710	283.055	267.503
55.0	485.237	401.254	304.829	250.395	237.175
57.5	441.690	359.262	267.503	220.068	208.403
60.0	398.921	318.826	232.510	191.296	181.186
62.5	356.929	279.167	200.627	164.856	155.525
65.0	316.493	241.841	170.300	138.417	132.974
67.5	275.279	206.070	142.305	119.754	118.199
70.0	237.175	171.855	116.644	104.202	102.646
72.5	200.627	139.972	96.425	89.427	87.094
75.0	164.856	109.645	80.095	73.874	73.097
77.5	132.974	81.650	63.765	59.877	59.099
80.0	101.869	57.544	48.990	45.880	45.880
82.5	71.541	40.436	34.993	32.660	32.660
85.0	44.325	24.884	21.773	20.218	20.218
87.5	18.663	10.887	9.332	8.554	8.554
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-H-835-WSOTG-F-ITL90350 ITL89456.003.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-H-835-WSOTG-F-ITL90350 ITL89456.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	410.09	N.A.	7.60
0-30	817.18	N.A.	15.20
0-40	1244.56	N.A.	23.20
0-60	1921.03	N.A.	35.80
0-80	2217.03	N.A.	41.30
0-90	2245.25	N.A.	41.80
10-90	2134.34	N.A.	39.70
20-40	834.47	N.A.	15.50
20-50	1215.47	N.A.	22.60
40-70	870.44	N.A.	16.20
60-80	296.01	N.A.	5.50
70-80	102.03	N.A.	1.90
80-90	28.21	N.A.	0.50
90-110	408.93	N.A.	7.60
90-120	948.46	N.A.	17.70
90-130	1565.19	N.A.	29.10
90-150	2586.44	N.A.	48.20
90-180	3124.85	N.A.	58.20
110-180	2715.92	N.A.	50.60
0-180	5370.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.91
10-20	299.19
20-30	407.09
30-40	427.38
40-50	381.00
50-60	295.46
60-70	193.97
70-80	102.03
80-90	28.21
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

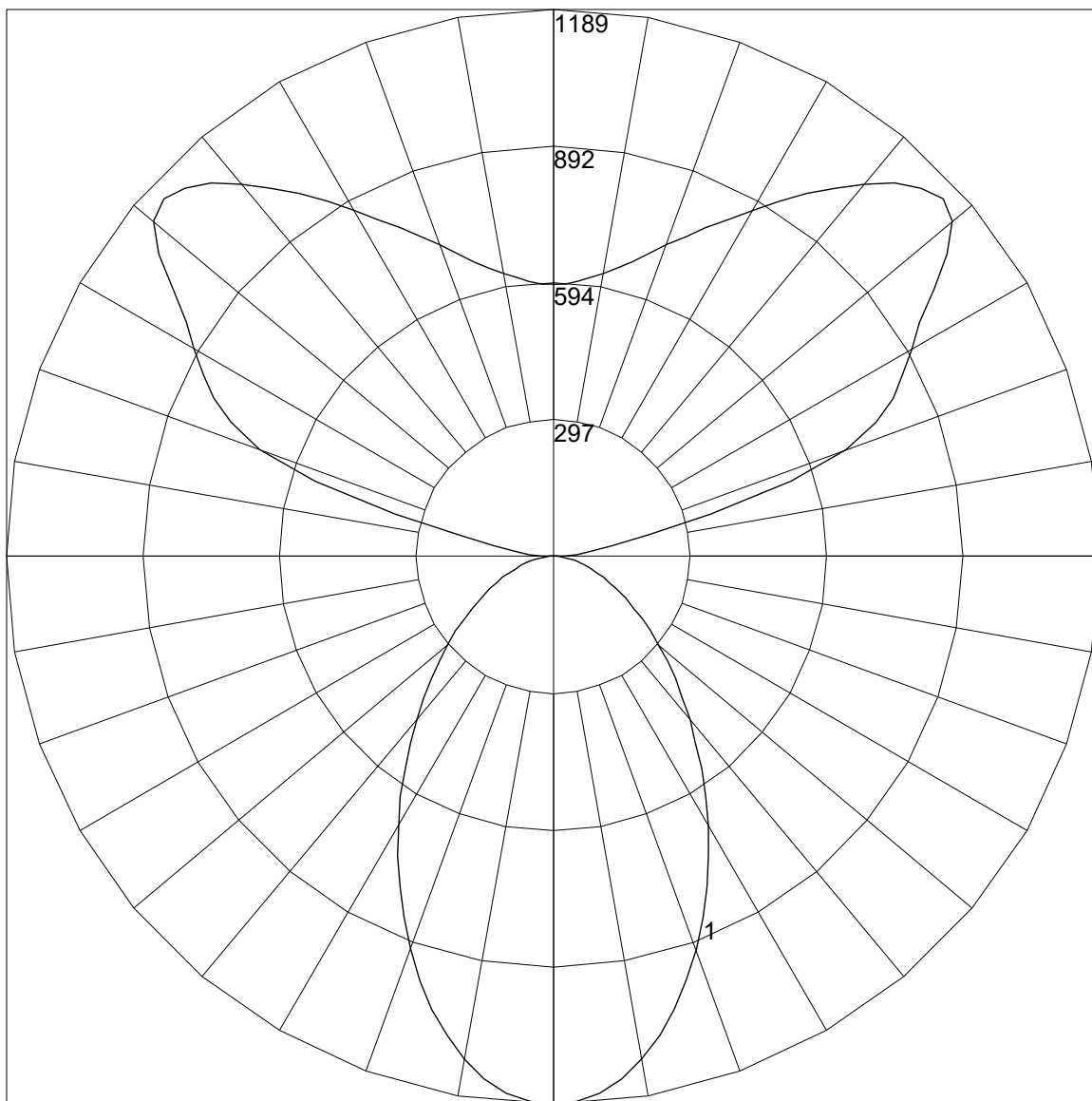
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	89	85	88	84	81	79	70	68	66	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36	31
3	81	72	65	59	73	66	60	55	55	50	47	45	41	39	35	33	31	27
4	74	64	56	51	67	59	52	47	49	44	40	40	37	34	32	29	27	24
5	68	57	49	44	62	53	46	41	44	39	35	36	32	30	29	26	24	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19
7	58	46	39	34	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	30	49	39	33	28	33	28	24	28	24	21	22	20	17	15
9	50	39	31	27	46	36	29	25	31	25	22	25	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 = 1188.987 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)