

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-V-H-835-WSOTG-F-ITL90350 ITL89456.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350 ITL89456.006 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-V-H-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]6263

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6263
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	64.1
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)	0.18 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-V-H-835-WSOTG-F-ITL90350 ITL89456.006.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	18.000	31.000	31.000	30.000	30.000
95.0	47.000	83.000	83.000	69.000	68.000
97.5	79.000	136.000	167.000	120.000	113.000
100.0	112.000	177.000	332.000	193.000	170.000
102.5	148.000	216.000	459.000	341.000	271.000
105.0	183.000	258.000	532.000	556.000	458.000
107.5	218.000	299.000	577.000	750.000	699.000
110.0	253.000	337.000	617.000	864.000	873.000
112.5	288.000	374.000	664.000	939.000	977.000
115.0	324.000	409.000	720.000	993.000	1048.000
117.5	360.000	444.000	781.000	1044.000	1103.000
120.0	396.000	481.000	831.000	1098.000	1158.000
122.5	429.000	512.000	867.000	1174.000	1216.000
125.0	460.000	542.000	887.000	1257.000	1299.000
127.5	489.000	570.000	899.000	1313.000	1391.000
130.0	513.000	594.000	906.000	1336.000	1457.000
132.5	537.000	616.000	908.000	1327.000	1478.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-H-835-WSOTG-F-ITL90350 ITL89456.006.IES****CANDELA TABULATION - (Cont.)**

135.0	558.000	634.000	907.000	1299.000	1457.000
137.5	577.000	651.000	904.000	1261.000	1413.000
140.0	596.000	666.000	899.000	1219.000	1357.000
142.5	614.000	680.000	892.000	1172.000	1297.000
145.0	633.000	693.000	885.000	1127.000	1236.000
147.5	649.000	703.000	877.000	1081.000	1174.000
150.0	665.000	714.000	867.000	1040.000	1116.000
152.5	680.000	722.000	855.000	1001.000	1062.000
155.0	694.000	728.000	843.000	963.000	1012.000
157.5	707.000	736.000	832.000	928.000	967.000
160.0	718.000	741.000	819.000	894.000	925.000
162.5	728.000	745.000	806.000	865.000	886.000
165.0	736.000	749.000	793.000	837.000	853.000
167.5	743.000	752.000	783.000	813.000	824.000
170.0	749.000	755.000	776.000	794.000	801.000
172.5	752.000	757.000	768.000	778.000	784.000
175.0	756.000	758.000	763.000	768.000	770.000
177.5	758.000	758.000	760.000	760.000	761.000
180.0	759.000	759.000	759.000	759.000	759.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-H-835-WSOTG-F-ITL90350 ITL89456.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	410.09	N.A.	6.50
0-30	817.18	N.A.	13.00
0-40	1244.56	N.A.	19.90
0-60	1921.03	N.A.	30.70
0-80	2217.03	N.A.	35.40
0-90	2245.25	N.A.	35.80
10-90	2134.34	N.A.	34.10
20-40	834.47	N.A.	13.30
20-50	1215.47	N.A.	19.40
40-70	870.44	N.A.	13.90
60-80	296.01	N.A.	4.70
70-80	102.03	N.A.	1.60
80-90	28.21	N.A.	0.50
90-110	525.79	N.A.	8.40
90-120	1219.49	N.A.	19.50
90-130	2012.46	N.A.	32.10
90-150	3325.54	N.A.	53.10
90-180	4017.8	N.A.	64.20
110-180	3492.02	N.A.	55.80
0-180	6263.05	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	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

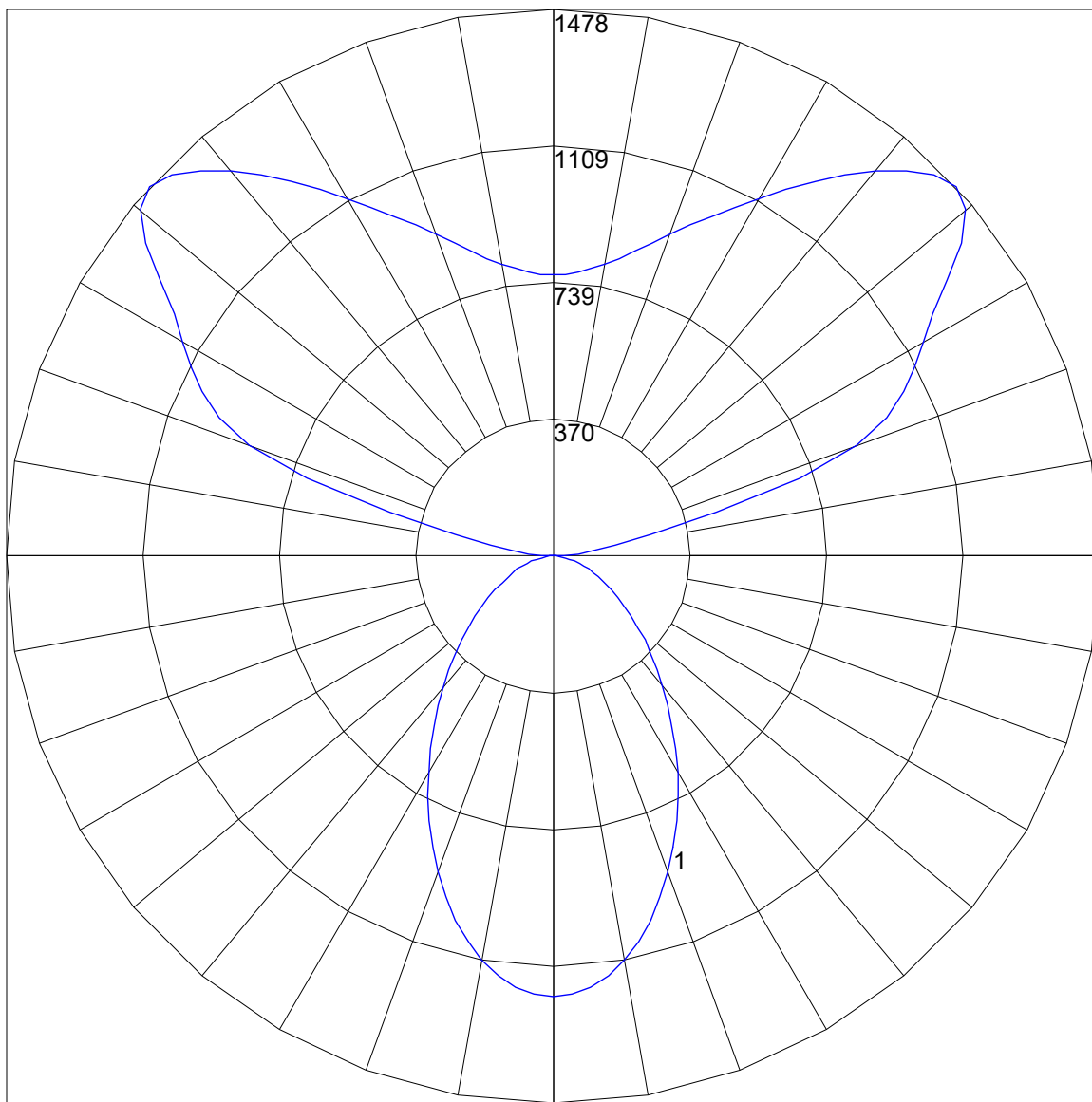
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	91	87	84	86	82	79	77	67	65	63	52	51	49	39	38	37	31
2	87	80	74	69	78	73	68	64	59	55	52	46	44	42	35	33	32	27
3	79	71	64	58	72	64	58	54	52	48	45	41	38	36	31	29	28	23
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	28	26	24	20
5	67	56	48	43	60	51	44	39	42	37	33	33	30	27	25	23	21	18
6	62	50	43	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16
7	57	45	38	33	52	42	35	30	34	29	26	28	24	21	21	19	17	14
8	53	41	34	29	48	38	31	27	31	27	23	25	22	19	20	17	15	13
9	49	38	31	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13	11

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POLAR GRAPH



Maximum Candela = 1478 Located At Horizontal Angle = 90, Vertical Angle = 132.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)