

# 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-B-835-WSOTG-F-ITL90350 ITL89456.005.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350 ITL89456.005 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-B-835-WSO

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 54.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 56.6 WATTS

[OTHER]see [www.finelite.com](http://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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

[\_ABSOLUTE LUMENS]5504

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	54.3
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	9449	6719	5327
55	8501	5341	4155
65	7526	4049	3162
75	6401	3110	2838
85	5111	2510	2331

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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	787.009	787.009	787.009	787.009	787.009
2.5	785.979	785.465	784.950	784.435	783.920
5.0	782.376	781.347	778.773	775.685	774.141
7.5	776.199	773.626	766.420	760.243	757.155
10.0	767.449	761.273	750.463	739.140	734.507
12.5	756.640	745.316	729.360	712.889	706.197
15.0	742.743	726.786	705.168	683.035	673.770
17.5	727.301	706.197	677.373	650.093	638.254
20.0	709.286	683.035	647.519	615.092	601.194
22.5	687.668	657.299	615.606	577.517	562.076
25.0	665.534	630.019	582.150	539.942	523.471
27.5	641.343	601.194	547.663	501.853	484.353
30.0	615.606	571.855	513.177	463.249	446.263
32.5	587.297	542.001	478.176	425.160	409.203
35.0	558.987	511.118	443.690	389.644	371.629
37.5	530.163	479.720	409.718	355.158	337.657
40.0	500.309	447.807	376.261	322.730	305.744
42.5	470.455	416.924	343.834	291.847	275.890
45.0	440.087	385.526	312.950	263.022	248.096
47.5	409.203	355.672	283.097	235.742	222.874
50.0	378.835	325.304	254.272	210.006	198.682
52.5	350.525	295.450	227.507	187.358	177.064
55.0	321.186	265.596	201.771	165.740	156.990
57.5	292.362	237.801	177.064	145.666	137.945
60.0	264.052	211.036	153.902	126.621	119.930
62.5	236.257	184.785	132.798	109.121	102.944
65.0	209.492	160.078	112.724	91.620	88.017
67.5	182.211	136.401	94.194	79.267	78.238
70.0	156.990	113.753	77.208	68.973	67.943
72.5	132.798	92.650	63.825	59.193	57.649
75.0	109.121	72.576	53.016	48.898	48.384
77.5	88.017	54.046	42.207	39.633	39.119
80.0	67.428	38.089	32.427	30.369	30.369
82.5	47.354	26.765	23.163	21.618	21.618
85.0	29.339	16.471	14.412	13.383	13.383
87.5	12.353	7.206	6.177	5.662	5.662
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-B-835-WSOTG-F-ITL90350 ITL89456.005.IES****CANDELA TABULATION - (Cont.)**

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-B-835-WSOTG-F-ITL90350 ITL89456.005.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	271.45	N.A.	4.90
0-30	540.90	N.A.	9.80
0-40	823.79	N.A.	15.00
0-60	1271.56	N.A.	23.10
0-80	1467.49	N.A.	26.70
0-90	1486.16	N.A.	27.00
10-90	1412.75	N.A.	25.70
20-40	552.35	N.A.	10.00
20-50	804.54	N.A.	14.60
40-70	576.16	N.A.	10.50
60-80	195.93	N.A.	3.60
70-80	67.54	N.A.	1.20
80-90	18.68	N.A.	0.30
90-110	525.79	N.A.	9.60
90-120	1219.49	N.A.	22.20
90-130	2012.46	N.A.	36.60
90-150	3325.54	N.A.	60.40
90-180	4017.8	N.A.	73.00
110-180	3492.02	N.A.	63.40
0-180	5503.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.41
10-20	198.04
20-30	269.46
30-40	282.89
40-50	252.19
50-60	195.57
60-70	128.39
70-80	67.54
80-90	18.68
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

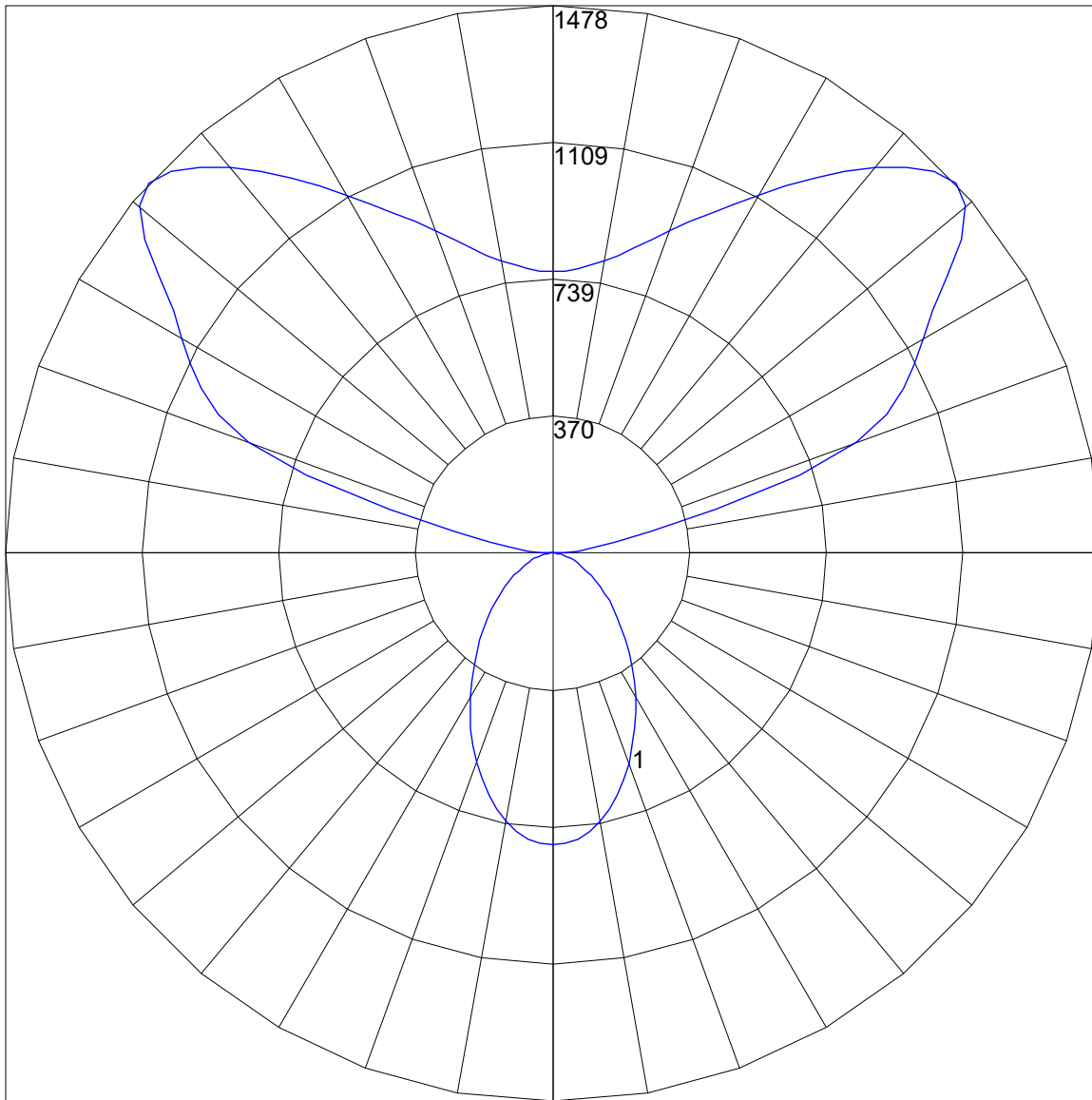
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30	23
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	78	69	62	56	69	62	56	51	49	45	41	36	34	32	25	24	22	17
4	71	61	53	48	63	55	48	44	43	39	35	33	30	27	23	21	19	15
5	65	54	47	41	58	49	42	38	39	34	31	29	26	24	20	19	17	13
6	60	49	41	36	54	44	37	33	35	30	27	27	23	21	19	17	15	12
7	55	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	51	40	33	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	23	26	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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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.)