

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-S-B-835-WSOTG-F-ITL90350 ITL89456.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350 ITL89456.013 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-S-B-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.1 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]3131

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	32.2
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	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	7.370	12.692	12.692	12.283	12.283
95.0	19.243	33.982	33.982	28.250	27.841
97.5	32.344	55.681	68.373	49.131	46.265
100.0	45.855	72.468	135.928	79.018	69.602
102.5	60.594	88.435	187.924	139.613	110.953
105.0	74.924	105.631	217.812	227.638	187.515
107.5	89.254	122.417	236.236	307.066	286.186
110.0	103.584	137.975	252.613	353.740	357.425
112.5	117.913	153.124	271.856	384.447	400.005
115.0	132.653	167.453	294.784	406.556	429.074
117.5	147.392	181.783	319.758	427.436	451.592
120.0	162.131	196.932	340.229	449.545	474.110
122.5	175.642	209.624	354.969	480.661	497.857
125.0	188.334	221.906	363.157	514.643	531.839
127.5	200.207	233.370	368.070	537.571	569.505
130.0	210.033	243.196	370.936	546.987	596.527
132.5	219.859	252.204	371.755	543.302	605.125

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-S-B-835-WSOTG-F-ITL90350 ITL89456.013.IES****CANDELA TABULATION - (Cont.)**

135.0	228.457	259.573	371.345	531.839	596.527
137.5	236.236	266.533	370.117	516.281	578.513
140.0	244.015	272.675	368.070	499.085	555.585
142.5	251.385	278.407	365.204	479.842	531.020
145.0	259.164	283.729	362.338	461.418	506.045
147.5	265.715	287.823	359.063	442.585	480.661
150.0	272.265	292.327	354.969	425.798	456.914
152.5	278.407	295.602	350.055	409.831	434.806
155.0	284.139	298.059	345.142	394.273	414.335
157.5	289.461	301.334	340.639	379.943	395.911
160.0	293.965	303.381	335.316	366.023	378.715
162.5	298.059	305.019	329.994	354.150	362.748
165.0	301.334	306.657	324.671	342.686	349.237
167.5	304.200	307.885	320.577	332.860	337.363
170.0	306.657	309.113	317.711	325.081	327.947
172.5	307.885	309.932	314.436	318.530	320.986
175.0	309.523	310.341	312.389	314.436	315.255
177.5	310.341	310.341	311.160	311.160	311.570
180.0	310.751	310.751	310.751	310.751	310.751

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-S-B-835-WSOTG-F-ITL90350 ITL89456.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	271.45	N.A.	8.70
0-30	540.90	N.A.	17.30
0-40	823.79	N.A.	26.30
0-60	1271.56	N.A.	40.60
0-80	1467.49	N.A.	46.90
0-90	1486.16	N.A.	47.50
10-90	1412.75	N.A.	45.10
20-40	552.35	N.A.	17.60
20-50	804.54	N.A.	25.70
40-70	576.16	N.A.	18.40
60-80	195.93	N.A.	6.30
70-80	67.54	N.A.	2.20
80-90	18.68	N.A.	0.60
90-110	215.27	N.A.	6.90
90-120	499.28	N.A.	15.90
90-130	823.95	N.A.	26.30
90-150	1361.55	N.A.	43.50
90-180	1644.98	N.A.	52.50
110-180	1429.71	N.A.	45.70
0-180	3131.14	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	37.55
100-110	177.72
110-120	284.02
120-130	324.66
130-140	303.44
140-150	234.16
150-160	160.96
160-170	92.50
170-180	29.97

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

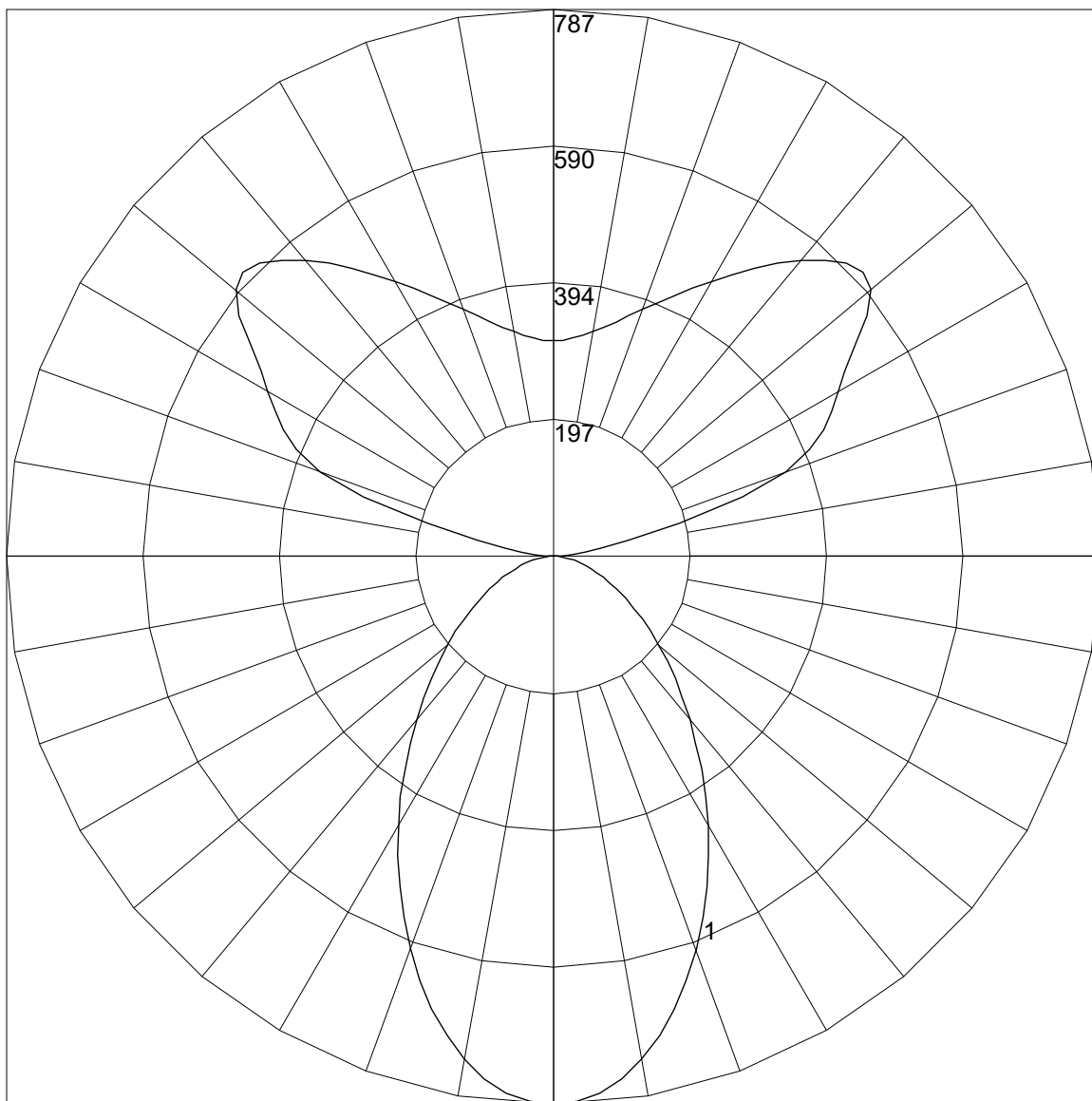
Effective Floor Cavity Reflectance 0.20

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	67	67	67	54	54	54	47
1	98	94	90	87	90	86	83	80	73	70	68	60	58	57	48	47	46	41
2	89	82	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40	35
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35	31
4	75	65	57	52	69	60	54	48	51	46	42	43	39	36	35	32	30	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	36	32	35	31	28	29	26	24	21
7	59	47	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	19	17
9	51	40	32	27	47	37	31	26	32	27	23	27	23	20	23	20	18	16
10	48	36	29	25	44	34	28	24	30	25	21	25	21	19	21	18	16	14

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POLAR GRAPH



Maximum Candela = 787.009 Located At Horizontal Angle = 0, Vertical Angle = 0

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