

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-4-ID-RG-4FT-S-H-835-WSOTG-F-ITL90353 ITL89033.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.014 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]06/04/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-S-H-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 42.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 44.6 WATTS

[_ABSOLUTE]LUMENS]4465

[OTHER]see www.finelite.com for source files ITL90353 and ITL89033. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	42.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8004	7312	6779
55	7460	6432	5743
65	6785	5315	4439
75	5915	3661	2788
85	4319	2376	2232

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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	1154.044	1154.044	1154.044	1154.044	1154.044
2.5	1151.746	1150.980	1151.746	1151.746	1151.746
5.0	1146.386	1145.620	1145.620	1146.386	1147.151
7.5	1137.962	1137.196	1137.196	1137.196	1136.430
10.0	1127.241	1123.412	1124.944	1122.646	1119.583
12.5	1111.925	1107.331	1107.331	1102.736	1097.375
15.0	1094.312	1086.654	1085.888	1079.762	1072.104
17.5	1072.870	1063.680	1059.852	1051.428	1043.770
20.0	1047.599	1036.878	1030.752	1019.265	1012.373
22.5	1020.031	1008.544	998.588	984.804	977.146
25.0	990.165	977.146	964.128	947.281	939.623
27.5	958.002	943.452	926.604	908.226	899.802
30.0	922.775	908.226	888.315	867.639	857.683
32.5	886.018	871.468	847.728	824.755	812.502
35.0	849.260	832.412	806.375	781.105	768.086
37.5	810.970	791.826	762.726	734.391	722.905
40.0	771.149	751.239	718.310	689.976	676.957
42.5	731.328	709.120	675.426	644.028	631.010
45.0	690.741	667.002	631.010	597.315	585.063
47.5	650.155	624.118	586.594	551.368	539.115
50.0	608.036	580.468	540.647	504.655	492.402
52.5	565.152	536.818	495.465	459.473	447.221
55.0	522.268	493.934	450.284	414.292	402.039
57.5	480.149	450.284	405.868	369.876	357.623
60.0	437.265	406.634	361.452	325.460	313.208
62.5	394.381	362.984	317.036	281.810	270.323
65.0	349.966	320.100	274.152	239.692	228.971
67.5	307.847	277.216	231.268	199.105	188.384
70.0	265.729	235.097	190.681	159.284	150.095
72.5	224.376	194.510	152.392	123.292	114.103
75.0	186.852	155.455	115.634	91.895	88.066
77.5	148.563	118.697	82.705	73.516	72.750
80.0	111.805	83.471	59.731	57.434	57.434
82.5	79.642	50.542	42.884	41.353	41.353
85.0	45.947	27.568	25.271	24.505	23.739
87.5	14.550	9.190	8.424	8.424	7.658
90.0	0.000	0.000	0.000	0.000	0.000
92.5	6.550	11.462	12.280	12.280	12.280
95.0	18.421	32.748	33.566	26.198	26.198
97.5	32.338	55.671	85.962	53.624	46.665
100.0	48.712	76.138	136.312	100.699	79.004
102.5	68.361	92.921	201.398	155.960	126.897
105.0	86.372	110.932	251.338	241.104	193.211
107.5	104.792	128.944	274.261	352.855	296.775
110.0	122.394	145.727	285.313	445.776	424.900
112.5	140.405	162.100	298.412	484.255	509.634
115.0	157.598	177.655	320.517	496.125	541.563
117.5	171.515	191.983	338.119	501.856	553.434
120.0	184.205	205.900	349.580	524.370	562.030
122.5	195.257	219.409	356.948	552.206	588.637
125.0	205.900	231.280	362.270	567.351	619.748
127.5	215.725	241.923	366.363	567.761	636.121
130.0	223.911	251.338	369.638	557.937	633.256
132.5	232.508	260.343	372.503	544.428	618.110

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-H-835-WSOTG-F-ITL90353 ITL89033.014.IES****CANDELA TABULATION - (Cont.)**

135.0	240.695	268.530	374.550	529.692	598.462
137.5	248.472	275.898	375.369	513.727	575.948
140.0	256.659	282.857	375.778	497.763	552.206
142.5	264.846	289.407	375.369	480.980	528.464
145.0	273.442	295.956	373.322	465.425	505.131
147.5	280.401	301.278	370.457	449.870	482.617
150.0	287.769	306.599	367.591	434.724	462.150
152.5	295.137	311.102	364.317	419.988	443.320
155.0	301.687	315.605	361.042	406.070	424.490
157.5	307.827	319.289	356.948	393.380	407.707
160.0	313.558	322.973	353.674	381.918	392.561
162.5	318.470	325.838	349.580	371.276	379.462
165.0	323.382	328.294	345.896	361.861	368.001
167.5	327.066	330.341	342.621	353.674	358.176
170.0	329.932	332.388	340.165	347.124	349.580
172.5	331.978	333.616	338.119	341.803	343.440
175.0	334.025	334.434	336.072	337.709	338.937
177.5	334.844	334.844	335.253	335.663	335.663
180.0	335.253	335.253	335.253	335.253	335.253

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Zone	Lumens	%Lamp	%Fixt
0-20	413.78	N.A.	9.30
0-30	856.99	N.A.	19.20
0-40	1361.29	N.A.	30.50
0-60	2256.74	N.A.	50.50
0-80	2671.12	N.A.	59.80
0-90	2704.25	N.A.	60.60
10-90	2595.55	N.A.	58.10
20-40	947.51	N.A.	21.20
20-50	1435.94	N.A.	32.20
40-70	1173.82	N.A.	26.30
60-80	414.38	N.A.	9.30
70-80	136.01	N.A.	3.00
80-90	33.13	N.A.	0.70
90-110	238.03	N.A.	5.30
90-120	567.00	N.A.	12.70
90-130	915.79	N.A.	20.50
90-150	1463.00	N.A.	32.80
90-180	1761.04	N.A.	39.40
110-180	1523.01	N.A.	34.10
0-180	4465.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.70
10-20	305.07
20-30	443.22
30-40	504.30
40-50	488.43
50-60	407.03
60-70	278.36
70-80	136.01
80-90	33.13
90-100	39.66
100-110	198.36
110-120	328.97
120-130	348.80
130-140	307.79
140-150	239.42
150-160	167.62
160-170	98.20
170-180	32.21

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

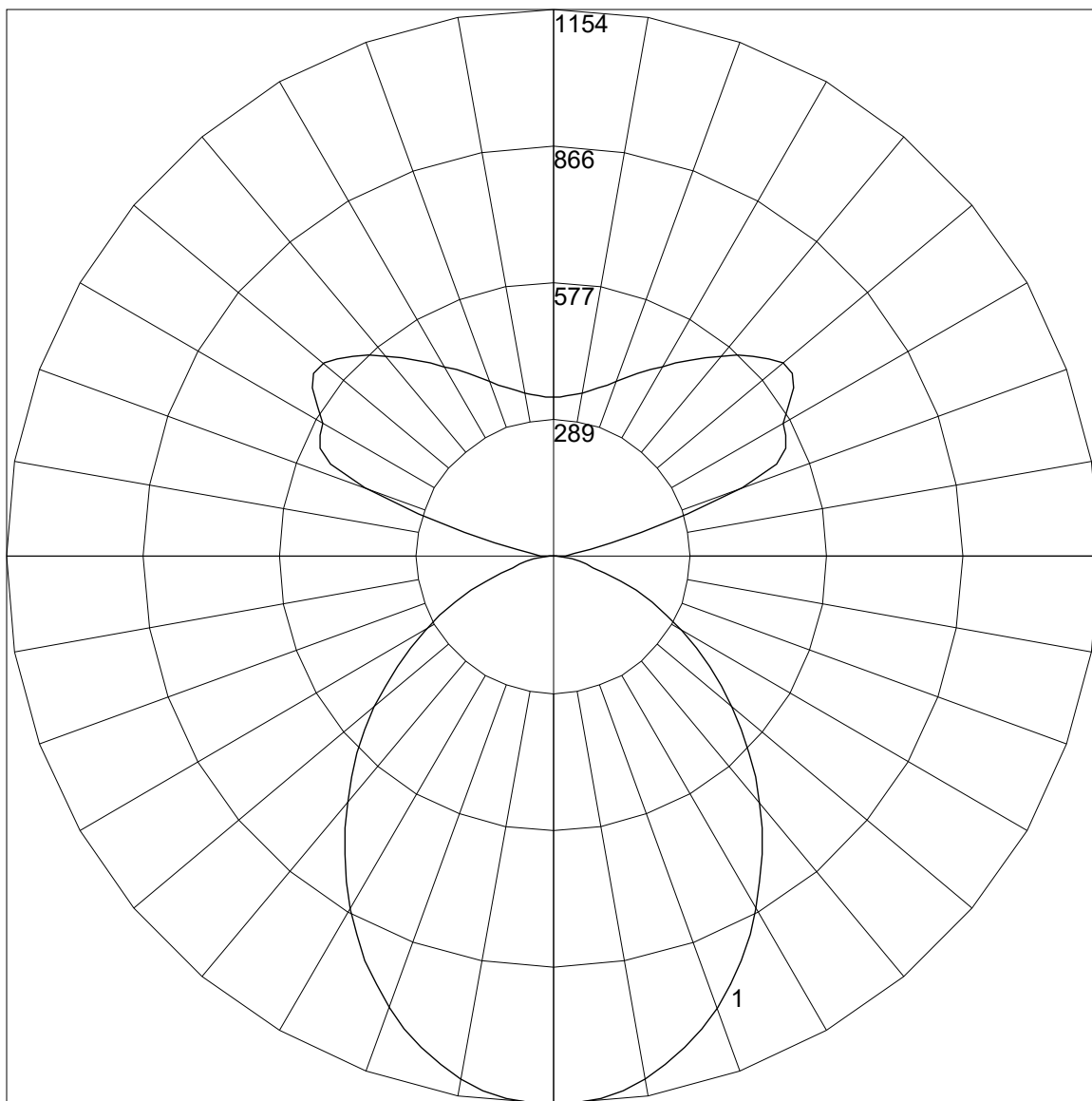
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	85	78	73	86	79	74	69	70	65	62	60	57	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	46	44	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	44	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	31	28	25	22
8	56	44	36	31	53	42	34	30	37	31	27	33	28	25	29	25	22	20
9	52	40	33	28	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

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POLAR GRAPH



Maximum Candela = 1154.044 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)