

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-B-H-835-WSOTG-F-ITL90353 ITL89033.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.011 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-B-H-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.3 WATTS

[_ABSOLUTE]LUMENS]4918

[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	4918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	46.3
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)	0.33 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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	<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	8.234	14.410	15.439	15.439	15.439
95.0	23.159	41.172	42.201	32.937	32.937
97.5	40.657	69.992	108.075	67.418	58.669
100.0	61.243	95.724	171.377	126.603	99.326
102.5	85.946	116.824	253.205	196.079	159.540
105.0	108.590	139.469	315.992	303.125	242.912
107.5	131.749	162.113	344.812	443.623	373.117
110.0	153.879	183.213	358.707	560.448	534.201
112.5	176.523	203.799	375.176	608.824	640.732
115.0	198.138	223.356	402.966	623.749	680.875
117.5	215.636	241.368	425.096	630.954	695.799
120.0	231.590	258.866	439.506	659.259	706.607
122.5	245.485	275.849	448.770	694.255	740.059
125.0	258.866	290.774	455.460	713.297	779.172
127.5	271.218	304.155	460.607	713.812	799.757
130.0	281.510	315.992	464.724	701.460	796.155
132.5	292.318	327.314	468.326	684.477	777.113

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-H-835-WSOTG-F-ITL90353 ITL89033.011.IES****CANDELA TABULATION - (Cont.)**

135.0	302.611	337.607	470.900	665.950	752.410
137.5	312.389	346.870	471.929	645.879	724.105
140.0	322.682	355.619	472.443	625.808	694.255
142.5	332.975	363.853	471.929	604.707	664.406
145.0	343.782	372.088	469.356	585.151	635.071
147.5	352.531	378.778	465.753	565.594	606.766
150.0	361.795	385.469	462.151	546.552	581.033
152.5	371.059	391.130	458.034	528.025	557.360
155.0	379.293	396.791	453.916	510.527	533.686
157.5	387.012	401.423	448.770	494.573	512.586
160.0	394.218	406.054	444.653	480.163	493.544
162.5	400.393	409.657	439.506	466.782	477.075
165.0	406.569	412.745	434.875	454.946	462.665
167.5	411.201	415.318	430.757	444.653	450.314
170.0	414.803	417.891	427.670	436.418	439.506
172.5	417.377	419.435	425.096	429.728	431.787
175.0	419.950	420.464	422.523	424.582	426.125
177.5	420.979	420.979	421.494	422.008	422.008
180.0	421.494	421.494	421.494	421.494	421.494

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Zone	Lumens	%Lamp	%Fixt
0-20	413.78	N.A.	8.40
0-30	856.99	N.A.	17.40
0-40	1361.29	N.A.	27.70
0-60	2256.74	N.A.	45.90
0-80	2671.12	N.A.	54.30
0-90	2704.25	N.A.	55.00
10-90	2595.55	N.A.	52.80
20-40	947.51	N.A.	19.30
20-50	1435.94	N.A.	29.20
40-70	1173.82	N.A.	23.90
60-80	414.38	N.A.	8.40
70-80	136.01	N.A.	2.80
80-90	33.13	N.A.	0.70
90-110	299.26	N.A.	6.10
90-120	712.85	N.A.	14.50
90-130	1151.37	N.A.	23.40
90-150	1839.35	N.A.	37.40
90-180	2214.04	N.A.	45.00
110-180	1914.79	N.A.	38.90
0-180	4918.29	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	49.87
100-110	249.39
110-120	413.60
120-130	438.52
130-140	386.97
140-150	301.01
150-160	210.74
160-170	123.46
170-180	40.50

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

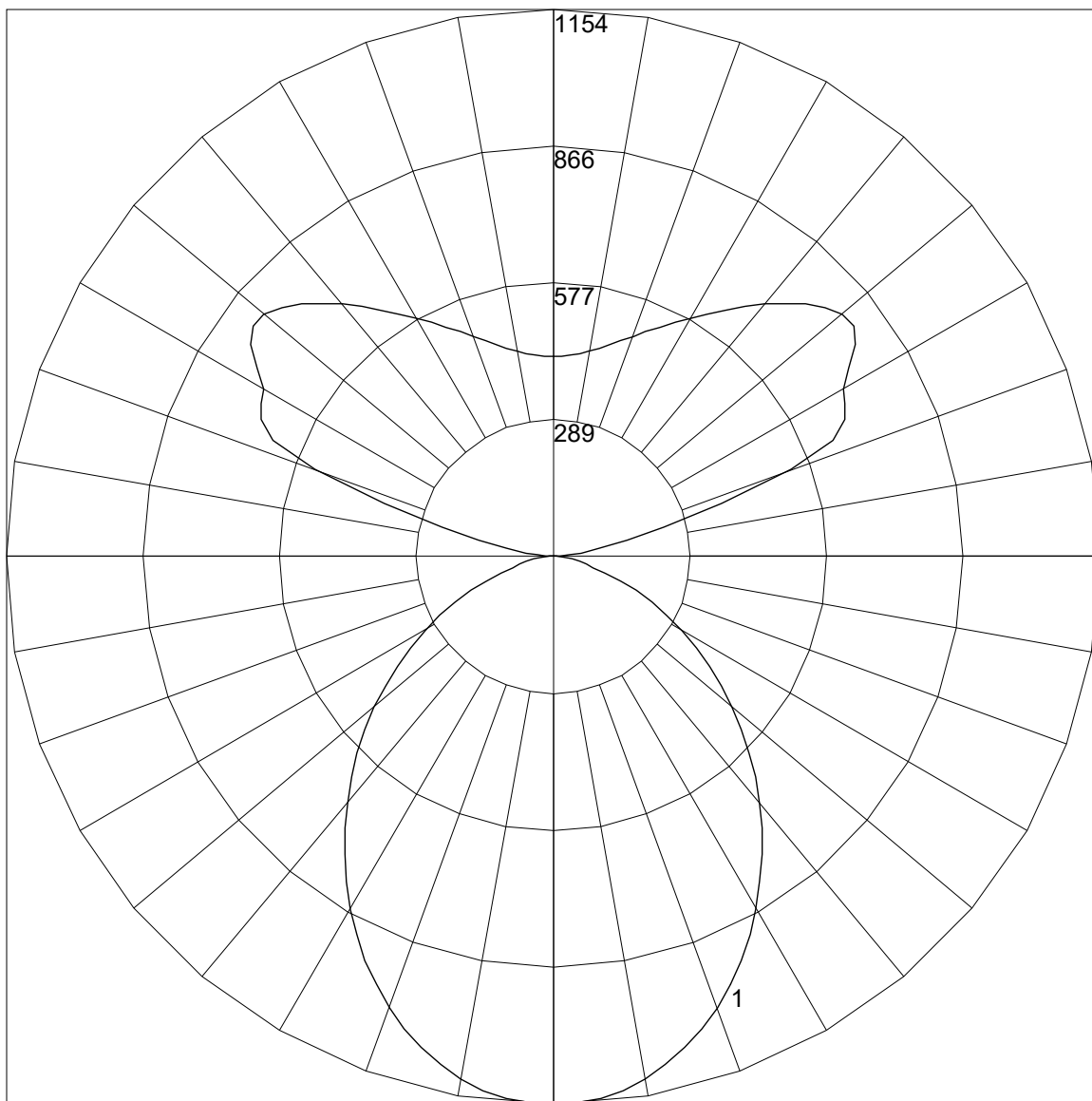
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	74	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	48	43	45	41	38	38	35	33	29
5	70	58	50	44	65	55	47	42	47	42	38	41	37	33	35	31	29	26
6	64	52	44	39	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	41	34	29	36	30	26	31	26	23	27	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	23	19	17	15

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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)