

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-H-H-835-WSOTG-F-ITL90353 ITL89033.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353 ITL89033.003 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-H-H-835-WSOTG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 56.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.7 WATTS

[_ABSOLUTE]LUMENS]6050

[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	6050
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	56.2
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)	0.33 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	12.444	21.778	23.333	23.333	23.333
95.0	35.000	62.222	63.778	49.778	49.778
97.5	61.444	105.778	163.333	101.889	88.667
100.0	92.556	144.667	259.000	191.333	150.111
102.5	129.889	176.556	382.667	296.333	241.111
105.0	164.111	210.778	477.555	458.111	367.111
107.5	199.111	245.000	521.111	670.444	563.889
110.0	232.556	276.889	542.111	847.000	807.333
112.5	266.778	308.000	567.000	920.111	968.333
115.0	299.445	337.555	609.000	942.667	1029.000
117.5	325.889	364.778	642.444	953.556	1051.555
120.0	350.000	391.222	664.222	996.333	1067.889
122.5	371.000	416.889	678.222	1049.222	1118.445
125.0	391.222	439.445	688.333	1078.000	1177.555
127.5	409.889	459.667	696.111	1078.778	1208.667
130.0	425.445	477.555	702.333	1060.111	1203.222
132.5	441.778	494.667	707.778	1034.445	1174.445

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-WSOTG-F-ITL90353 ITL89033.003.IES****CANDELA TABULATION - (Cont.)**

135.0	457.333	510.222	711.667	1006.444	1137.111
137.5	472.111	524.222	713.222	976.111	1094.333
140.0	487.667	537.444	714.000	945.778	1049.222
142.5	503.222	549.889	713.222	913.889	1004.111
145.0	519.556	562.333	709.333	884.333	959.778
147.5	532.778	572.444	703.889	854.778	917.000
150.0	546.778	582.556	698.444	826.000	878.111
152.5	560.778	591.111	692.222	798.000	842.333
155.0	573.222	599.667	686.000	771.556	806.556
157.5	584.889	606.667	678.222	747.444	774.667
160.0	595.778	613.667	672.000	725.667	745.889
162.5	605.111	619.111	664.222	705.444	721.000
165.0	614.444	623.778	657.222	687.556	699.222
167.5	621.444	627.667	651.000	672.000	680.556
170.0	626.889	631.556	646.333	659.556	664.222
172.5	630.778	633.889	642.444	649.444	652.556
175.0	634.667	635.444	638.556	641.667	644.000
177.5	636.222	636.222	637.000	637.778	637.778
180.0	637.000	637.000	637.000	637.000	637.000

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Zone	Lumens	%Lamp	%Fixt
0-20	413.78	N.A.	6.80
0-30	856.99	N.A.	14.20
0-40	1361.29	N.A.	22.50
0-60	2256.74	N.A.	37.30
0-80	2671.12	N.A.	44.10
0-90	2704.25	N.A.	44.70
10-90	2595.55	N.A.	42.90
20-40	947.51	N.A.	15.70
20-50	1435.94	N.A.	23.70
40-70	1173.82	N.A.	19.40
60-80	414.38	N.A.	6.80
70-80	136.01	N.A.	2.20
80-90	33.13	N.A.	0.50
90-110	452.26	N.A.	7.50
90-120	1077.33	N.A.	17.80
90-130	1740.06	N.A.	28.80
90-150	2779.79	N.A.	45.90
90-180	3346.07	N.A.	55.30
110-180	2893.8	N.A.	47.80
0-180	6050.32	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	75.36
100-110	376.90
110-120	625.06
120-130	662.73
130-140	584.82
140-150	454.91
150-160	318.49
160-170	186.59
170-180	61.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

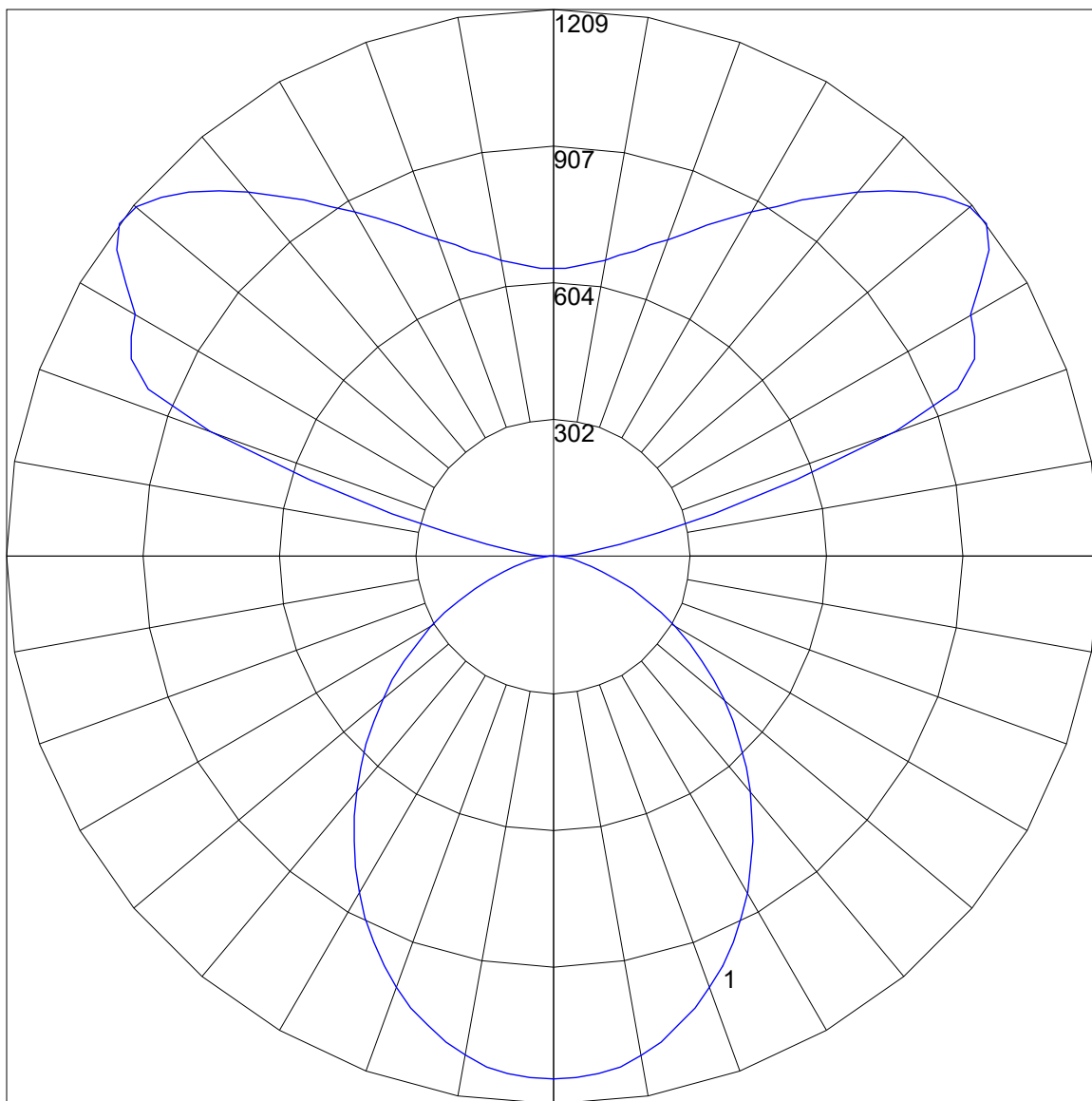
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	88	81	75	70	81	75	70	65	62	59	55	51	48	46	41	39	37	32
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	33	53	42	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

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POLAR GRAPH



Maximum Candela = 1208.667 Located At Horizontal Angle = 90, Vertical Angle = 127.5

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