

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-D-RG-4FT-H-835-ITL90353.602.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.602 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUEDATE]05/18/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-4-D-RG-4ft-H-835
[_INPUT_ELECTRICAL]120.0 VOLTS, 28.5 WATTS
[_INPUT_ELECTRICAL]277.0 VOLTS, 29.3 WATTS
[_ABSOLUTE]LUMENS]2704
[OTHER]see www.finelite.com for source file ITL90353. For further details on Finelite family correlation files, go to 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	2704
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	28.5
Ballast Factor	1.00
CIE Type	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	1107.330	1107.330	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	908.225	899.802
30.0	922.775	908.225	888.315	867.639	857.683
32.5	886.017	871.468	847.728	824.754	812.502
35.0	849.260	832.412	806.375	781.104	768.086
37.5	810.970	791.825	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	317.037	281.810	270.323
65.0	349.965	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	59.732	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	9.189	8.424	8.424	7.658
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	413.78	N.A.	15.30
0-30	856.99	N.A.	31.70
0-40	1361.29	N.A.	50.30
0-60	2256.74	N.A.	83.50
0-80	2671.12	N.A.	98.80
0-90	2704.25	N.A.	100.00
10-90	2595.55	N.A.	96.00
20-40	947.51	N.A.	35.00
20-50	1435.94	N.A.	53.10
40-70	1173.82	N.A.	43.40
60-80	414.38	N.A.	15.30
70-80	136.01	N.A.	5.00
80-90	33.13	N.A.	1.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2704.25	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	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

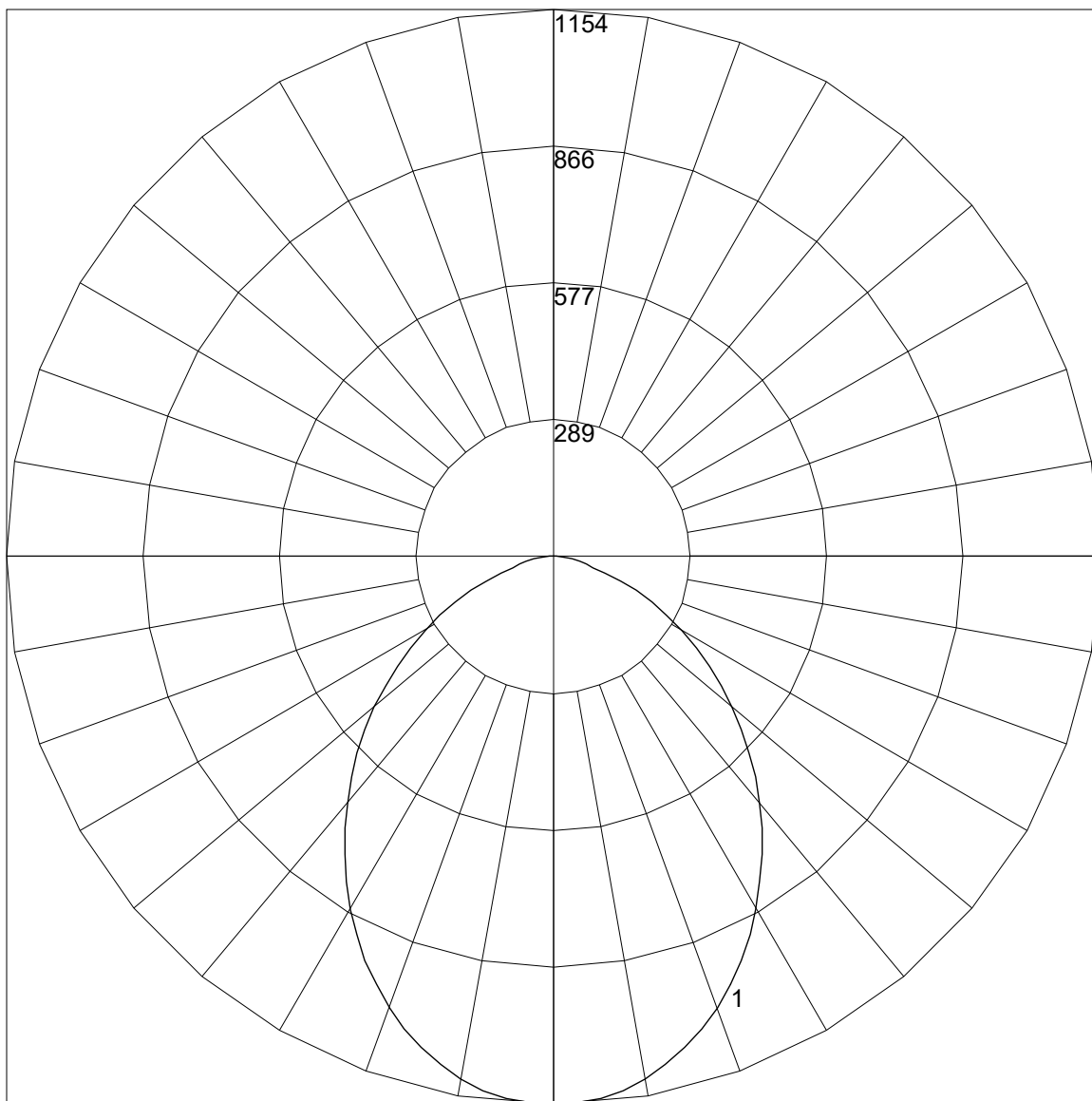
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



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