

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-B-V-835-TG-F-ITL90352.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/04/18

[ISSUEDATE]05/17/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-B-V-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.9 WATTS

[_ABSOLUTE]LUMENS]5143

[OTHER]see www.finelite.com for source file ITL90352. 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	5143
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	54.8
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	18722	13161	10370
55	16702	10349	8020
65	14477	7831	6215
75	12084	6042	5514
85	8361	4529	4181

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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	1585.000	1585.000	1585.000	1585.000	1585.000
2.5	1582.000	1582.000	1580.000	1578.000	1577.000
5.0	1573.000	1571.000	1564.000	1558.000	1556.000
7.5	1560.000	1554.000	1539.000	1525.000	1520.000
10.0	1542.000	1529.000	1505.000	1481.000	1469.000
12.5	1519.000	1498.000	1461.000	1428.000	1410.000
15.0	1492.000	1459.000	1411.000	1364.000	1342.000
17.5	1459.000	1416.000	1353.000	1295.000	1269.000
20.0	1423.000	1367.000	1291.000	1221.000	1193.000
22.5	1382.000	1315.000	1225.000	1147.000	1113.000
25.0	1334.000	1260.000	1157.000	1068.000	1034.000
27.5	1285.000	1200.000	1088.000	992.000	955.000
30.0	1230.000	1139.000	1016.000	916.000	877.000
32.5	1176.000	1078.000	945.000	841.000	802.000
35.0	1118.000	1013.000	875.000	770.000	730.000
37.5	1058.000	950.000	807.000	700.000	661.000
40.0	998.000	885.000	740.000	635.000	597.000
42.5	937.000	820.000	674.000	574.000	537.000
45.0	872.000	758.000	613.000	516.000	483.000
47.5	811.000	696.000	554.000	462.000	432.000
50.0	748.000	634.000	497.000	412.000	385.000
52.5	691.000	575.000	443.000	366.000	343.000
55.0	631.000	517.000	391.000	324.000	303.000
57.5	571.000	460.000	344.000	285.000	266.000
60.0	514.000	407.000	299.000	248.000	231.000
62.5	458.000	356.000	258.000	212.000	197.000
65.0	403.000	307.000	218.000	178.000	173.000
67.5	351.000	262.000	182.000	157.000	153.000
70.0	300.000	218.000	148.000	136.000	133.000
72.5	252.000	176.000	124.000	116.000	113.000
75.0	206.000	138.000	103.000	96.000	94.000
77.5	162.000	102.000	82.000	77.000	75.000
80.0	122.000	73.000	62.000	59.000	58.000
82.5	84.000	51.000	44.000	42.000	41.000
85.0	48.000	30.000	26.000	25.000	24.000
87.5	15.000	11.000	10.000	9.000	8.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.440	14.925	14.410	13.381	12.866
95.0	35.511	35.511	35.511	33.967	32.938
97.5	56.612	56.612	55.583	55.583	54.554
100.0	79.257	79.257	78.743	78.228	77.713
102.5	103.446	102.931	102.931	102.417	101.902
105.0	129.179	128.664	128.664	128.150	127.120
107.5	156.456	155.941	155.941	154.912	153.882
110.0	184.762	183.733	184.247	182.703	182.189
112.5	214.612	213.583	214.097	212.039	211.524
115.0	246.006	243.947	244.977	242.404	241.889
117.5	277.400	275.856	275.856	274.312	273.283
120.0	309.824	307.765	308.280	305.706	304.677
122.5	343.276	340.188	341.218	338.644	337.615
125.0	377.758	373.641	374.670	372.097	371.068
127.5	412.240	407.608	408.638	406.579	403.491
130.0	446.722	441.576	443.120	441.061	437.459
132.5	480.175	475.543	477.602	475.029	471.941

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-V-835-TG-F-ITL90352.012.IES****CANDELA TABULATION - (Cont.)**

135.0	514.657	509.510	511.569	509.510	505.393
137.5	550.168	543.478	546.051	543.993	539.361
140.0	584.136	576.931	580.019	577.445	572.813
142.5	618.103	609.354	613.471	610.383	605.237
145.0	651.041	640.748	644.865	642.292	637.145
147.5	680.891	671.113	675.745	673.171	668.025
150.0	710.227	700.448	705.080	701.992	697.360
152.5	737.504	727.210	732.872	729.269	725.152
155.0	762.722	752.943	759.634	755.002	751.399
157.5	786.396	776.618	782.793	778.676	775.588
160.0	805.953	798.233	803.894	800.292	797.718
162.5	824.995	817.790	822.422	819.334	816.761
165.0	841.464	835.288	838.891	836.832	834.259
167.5	854.845	850.728	852.787	851.757	849.184
170.0	866.168	863.595	864.624	863.595	862.565
172.5	873.888	873.888	873.888	872.858	872.858
175.0	881.093	880.578	880.578	880.064	879.549
177.5	884.696	884.696	884.696	884.696	884.696
180.0	886.240	886.240	886.240	886.240	886.240

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.66	N.A.	10.60
0-30	1079.84	N.A.	21.00
0-40	1639.69	N.A.	31.90
0-60	2516.13	N.A.	48.90
0-80	2894.15	N.A.	56.30
0-90	2928.15	N.A.	56.90
10-90	2780.7	N.A.	54.10
20-40	1096.04	N.A.	21.30
20-50	1591.43	N.A.	30.90
40-70	1124.88	N.A.	21.90
60-80	378.02	N.A.	7.40
70-80	129.59	N.A.	2.50
80-90	34.00	N.A.	0.70
90-110	175.75	N.A.	3.40
90-120	417.60	N.A.	8.10
90-130	752.01	N.A.	14.60
90-150	1547.54	N.A.	30.10
90-180	2214.86	N.A.	43.10
110-180	2039.11	N.A.	39.60
0-180	5143.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.45
10-20	396.21
20-30	536.19
30-40	559.85
40-50	495.40
50-60	381.04
60-70	248.44
70-80	129.59
80-90	34.00
90-100	39.23
100-110	136.52
110-120	241.85
120-130	334.41
130-140	393.69
140-150	401.84
150-160	347.90
160-170	235.90
170-180	83.52

IES INDOOR REPORT

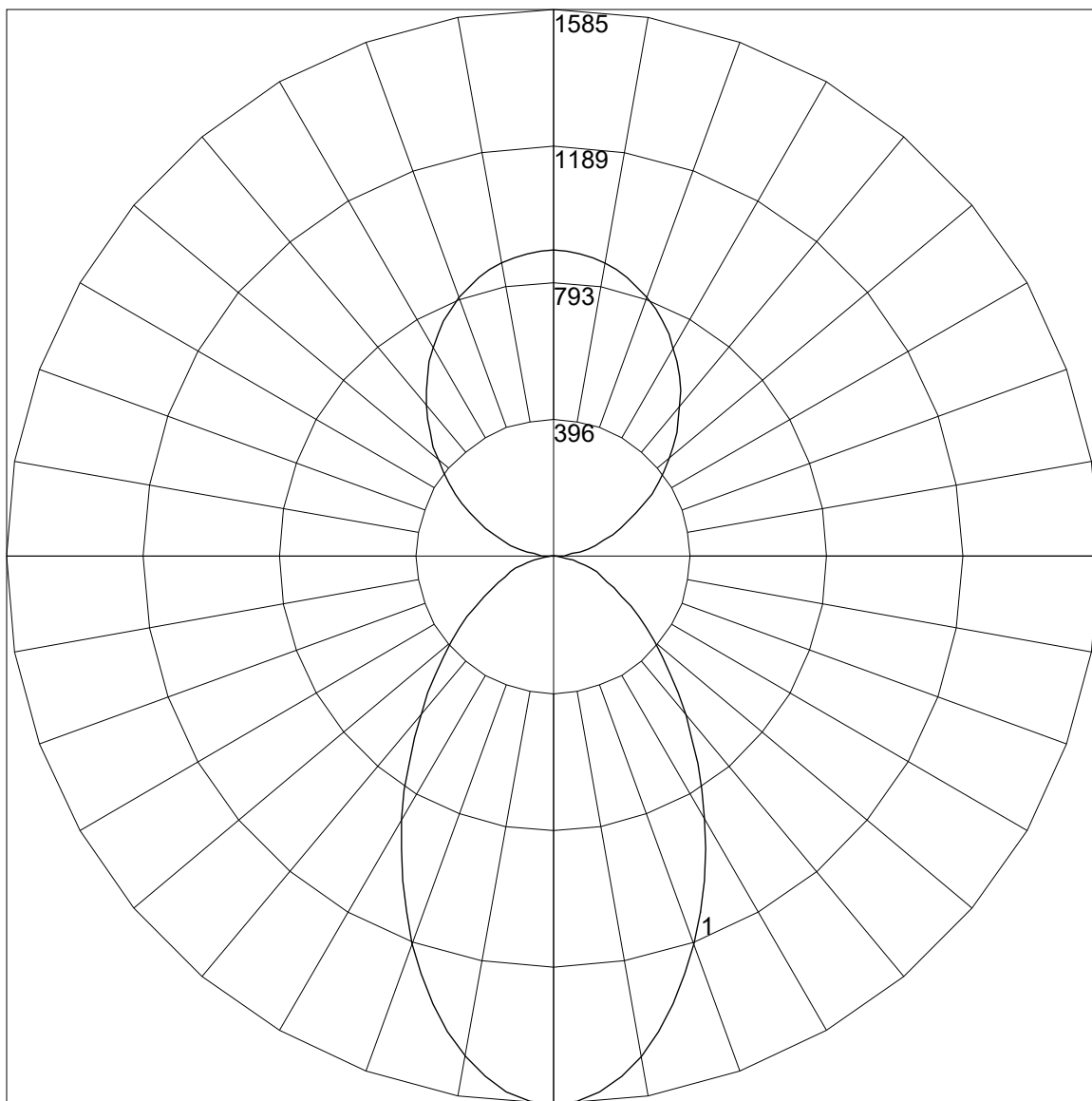
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	92	85	79	74	85	79	74	70	69	65	62	59	56	54	50	48	47	42
3	84	75	68	62	78	70	64	59	61	57	53	53	49	46	45	43	41	37
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	41	38	36	32
5	71	60	52	46	66	56	49	44	50	44	40	43	39	36	37	34	32	29
6	66	54	46	41	61	51	44	39	45	39	35	39	35	32	34	31	28	25
7	61	49	42	36	57	46	39	35	41	36	31	36	32	28	31	28	25	23
8	57	45	37	32	53	43	36	31	38	32	28	33	29	26	29	26	23	21
9	53	41	34	29	50	39	32	28	35	29	26	31	26	23	27	24	21	19
10	50	38	31	26	47	36	30	25	32	27	23	29	24	21	25	22	19	17

POLAR GRAPH



Maximum Candela = 1585 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)