

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-H-835-TG-F-ITL90352.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.011 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-H-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.3 WATTS

[_ABSOLUTE]LUMENS]4492

[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	4492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14562	10237	8066
55	12991	8050	6238
65	11260	6091	4834
75	9399	4699	4289
85	6503	3523	3252

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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	1232.802	1232.802	1232.802	1232.802	1232.802
2.5	1230.469	1230.469	1228.913	1227.358	1226.580
5.0	1223.469	1221.913	1216.468	1211.802	1210.246
7.5	1213.357	1208.691	1197.024	1186.134	1182.246
10.0	1199.357	1189.246	1170.579	1151.912	1142.578
12.5	1181.468	1165.134	1136.356	1110.689	1096.688
15.0	1160.467	1134.800	1097.466	1060.910	1043.798
17.5	1134.800	1101.355	1052.354	1007.242	987.019
20.0	1106.800	1063.243	1004.131	949.685	927.907
22.5	1074.910	1022.798	952.797	892.129	865.684
25.0	1037.576	980.019	899.907	830.683	804.238
27.5	999.464	933.352	846.239	771.571	742.793
30.0	956.686	885.906	790.238	712.458	682.125
32.5	914.685	838.461	735.014	654.124	623.790
35.0	869.573	787.904	680.569	598.901	567.789
37.5	822.905	738.904	627.679	544.455	514.121
40.0	776.237	688.347	575.567	493.899	464.342
42.5	728.792	637.790	524.233	446.453	417.675
45.0	678.236	589.567	476.787	401.341	375.674
47.5	630.790	541.344	430.897	359.340	336.007
50.0	581.789	493.121	386.563	320.451	299.450
52.5	537.455	447.231	344.562	284.672	266.783
55.0	490.788	402.119	304.117	252.005	235.671
57.5	444.120	357.785	267.561	221.671	206.893
60.0	399.786	316.562	232.560	192.893	179.670
62.5	356.229	276.894	200.671	164.892	153.225
65.0	313.451	238.782	169.559	138.447	134.558
67.5	273.005	203.782	141.558	122.114	119.002
70.0	233.338	169.559	115.113	105.780	103.447
72.5	196.004	136.892	96.446	90.224	87.891
75.0	160.225	107.335	80.113	74.668	73.113
77.5	126.002	79.335	63.779	59.890	58.334
80.0	94.891	56.779	48.223	45.890	45.112
82.5	65.335	39.667	34.223	32.667	31.890
85.0	37.334	23.334	20.223	19.445	18.667
87.5	11.667	8.556	7.778	7.000	6.222
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-H-835-TG-F-ITL90352.011.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	422.85	N.A.	9.40
0-30	839.90	N.A.	18.70
0-40	1275.34	N.A.	28.40
0-60	1957.03	N.A.	43.60
0-80	2251.05	N.A.	50.10
0-90	2277.5	N.A.	50.70
10-90	2162.81	N.A.	48.10
20-40	852.49	N.A.	19.00
20-50	1237.81	N.A.	27.60
40-70	874.92	N.A.	19.50
60-80	294.02	N.A.	6.50
70-80	100.79	N.A.	2.20
80-90	26.44	N.A.	0.60
90-110	175.75	N.A.	3.90
90-120	417.60	N.A.	9.30
90-130	752.01	N.A.	16.70
90-150	1547.54	N.A.	34.40
90-180	2214.86	N.A.	49.30
110-180	2039.11	N.A.	45.40
0-180	4492.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.69
10-20	308.17
20-30	417.04
30-40	435.45
40-50	385.32
50-60	296.37
60-70	193.23
70-80	100.79
80-90	26.44
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

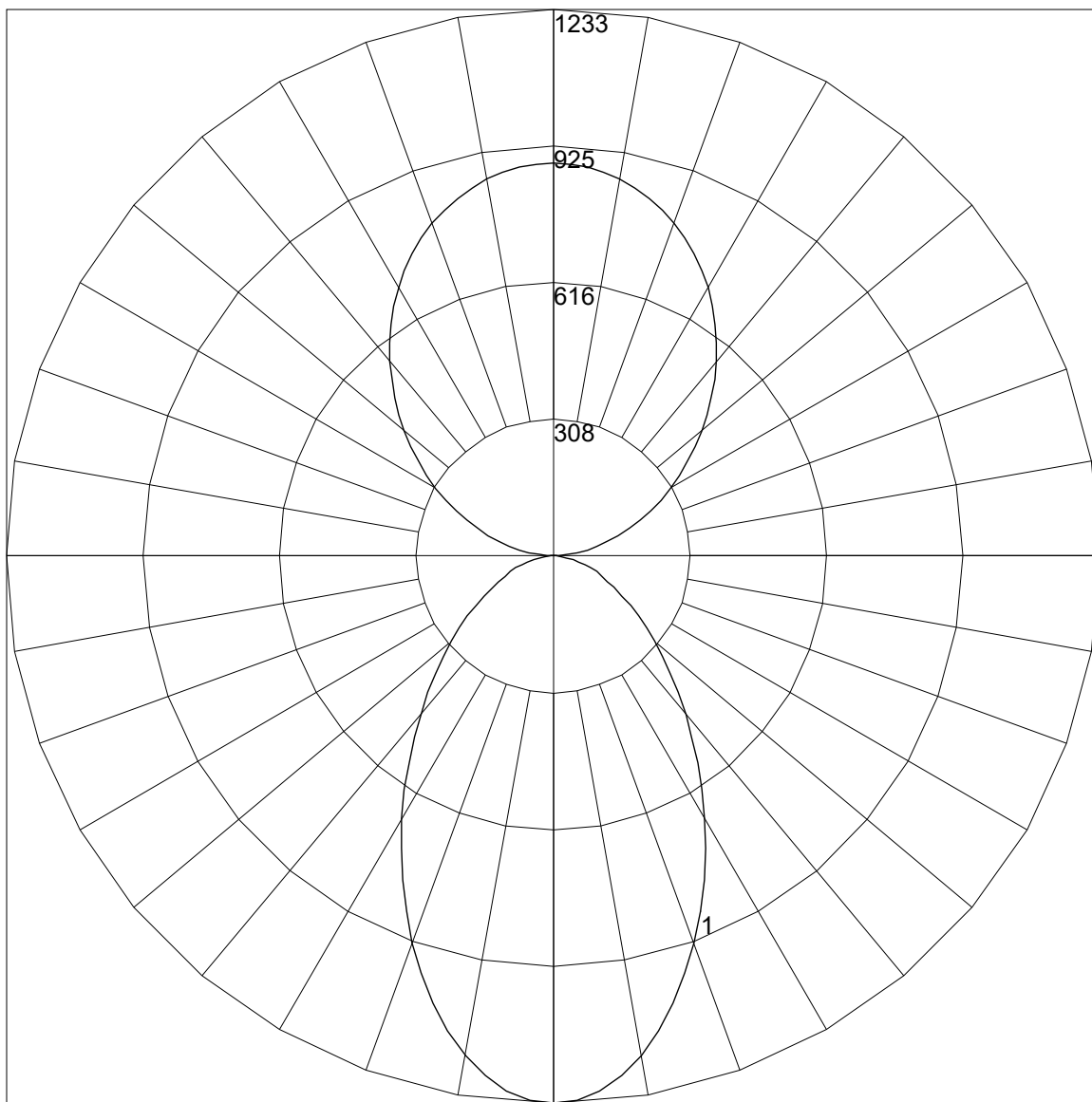
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	74	67	61	76	68	62	57	59	54	50	50	46	43	41	39	37	33
4	76	66	58	52	70	61	54	49	53	47	43	45	41	38	37	34	32	29
5	70	59	51	45	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	40	60	50	43	38	43	38	33	37	33	29	31	28	25	23
7	60	48	40	35	56	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	26	23	21	18
9	52	40	33	28	48	38	31	27	33	28	24	29	24	22	24	21	19	17
10	49	37	30	25	45	35	29	24	31	25	22	27	23	20	23	20	17	15

POLAR GRAPH



Maximum Candela = 1232.802 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)