

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-B-8TW-TG-F-ITL90353.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]05/18/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-B-B-8TW-TG-F

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI's

[_INPUT_ELECTRICAL]120.0 VOLTS, 40.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 42.7 WATTS

[_ABSOLUTE]LUMENS]4085

[OTHER]see www.finelite.com for source file ITL90353. 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	4085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	40
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	5379	4914	4556
55	5014	4323	3860
65	4560	3572	2983
75	3975	2460	1874
85	2903	1597	1500

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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	775.620	775.620	775.620	775.620	775.620
2.5	774.076	773.561	774.076	774.076	774.076
5.0	770.473	769.958	769.958	770.473	770.988
7.5	764.812	764.297	764.297	764.297	763.782
10.0	757.606	755.033	756.062	754.518	752.459
12.5	747.313	744.225	744.225	741.136	737.534
15.0	735.475	730.328	729.814	725.696	720.549
17.5	721.064	714.888	712.315	706.653	701.506
20.0	704.080	696.874	692.757	685.037	680.404
22.5	685.551	677.831	671.140	661.876	656.729
25.0	665.479	656.729	647.980	636.657	631.510
27.5	643.862	634.083	622.761	610.408	604.747
30.0	620.187	610.408	597.027	583.130	576.439
32.5	595.483	585.704	569.749	554.308	546.073
35.0	570.778	559.455	541.956	524.972	516.222
37.5	545.044	532.177	512.619	493.576	485.856
40.0	518.281	504.899	482.768	463.725	454.975
42.5	491.518	476.592	453.946	432.844	424.095
45.0	464.240	448.285	424.095	401.449	393.214
47.5	436.962	419.463	394.243	370.568	362.333
50.0	408.654	390.126	363.363	339.173	330.938
52.5	379.832	360.789	332.997	308.807	300.572
55.0	351.010	331.967	302.631	278.441	270.206
57.5	322.703	302.631	272.779	248.590	240.355
60.0	293.881	273.294	242.928	218.738	210.503
62.5	265.059	243.957	213.077	189.402	181.681
65.0	235.208	215.135	184.255	161.094	153.889
67.5	206.901	186.313	155.433	133.816	126.611
70.0	178.593	158.006	128.155	107.053	100.877
72.5	150.801	130.728	102.421	82.863	76.687
75.0	125.581	104.480	77.716	61.761	59.188
77.5	99.848	79.775	55.585	49.409	48.894
80.0	75.143	56.100	40.145	38.601	38.601
82.5	53.527	33.969	28.822	27.793	27.793
85.0	30.881	18.528	16.984	16.470	15.955
87.5	9.779	6.176	5.661	5.661	5.147
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.440	16.984	18.528	19.043	19.043
95.0	38.601	40.145	41.689	43.233	43.748
97.5	62.276	64.335	66.908	68.967	69.482
100.0	87.495	89.554	92.642	95.215	95.215
102.5	113.744	115.803	119.405	122.493	122.493
105.0	142.051	144.625	147.713	150.801	150.801
107.5	171.388	173.447	176.535	180.137	179.623
110.0	201.754	203.298	206.386	209.474	209.474
112.5	232.635	234.179	237.267	240.355	239.840
115.0	264.545	265.574	269.177	271.750	270.721
117.5	296.455	296.455	300.572	301.601	302.116
120.0	328.879	328.879	331.967	333.511	334.026
122.5	361.819	361.819	363.877	365.421	366.965
125.0	393.729	393.214	395.273	397.332	398.361
127.5	425.639	424.609	427.183	428.727	430.786
130.0	457.549	456.005	458.578	460.637	461.666
132.5	487.915	485.856	488.944	491.518	492.032

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-B-8TW-TG-F-ITL90353.902.IES****CANDELA TABULATION - (Cont.)**

135.0	519.825	516.222	520.340	522.913	522.913
137.5	550.706	546.073	550.706	552.250	552.764
140.0	579.528	574.895	581.072	581.072	582.101
142.5	609.379	603.717	609.894	609.894	608.864
145.0	638.716	631.510	638.201	637.686	636.657
147.5	665.993	658.273	664.964	664.449	662.391
150.0	691.213	683.493	690.183	689.154	688.125
152.5	715.403	708.197	714.888	713.344	711.800
155.0	738.048	731.358	737.534	736.504	733.931
157.5	758.636	751.945	758.121	755.547	754.003
160.0	778.193	772.532	777.679	775.105	772.532
162.5	795.178	790.031	794.148	791.575	790.031
165.0	810.103	805.986	808.559	807.015	805.471
167.5	822.970	819.882	821.426	820.397	819.368
170.0	833.264	831.720	832.235	831.720	830.690
172.5	840.984	840.984	840.984	839.955	839.955
175.0	847.160	847.160	847.160	846.646	846.646
177.5	851.278	851.278	851.278	851.278	851.278
180.0	852.307	852.307	852.307	852.307	852.307

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-B-8TW-TG-F-ITL90353.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	278.10	N.A.	6.80
0-30	575.98	N.A.	14.10
0-40	914.91	N.A.	22.40
0-60	1516.73	N.A.	37.10
0-80	1795.23	N.A.	43.90
0-90	1817.5	N.A.	44.50
10-90	1744.44	N.A.	42.70
20-40	636.81	N.A.	15.60
20-50	965.08	N.A.	23.60
40-70	788.91	N.A.	19.30
60-80	278.50	N.A.	6.80
70-80	91.41	N.A.	2.20
80-90	22.26	N.A.	0.50
90-110	202.94	N.A.	5.00
90-120	468.63	N.A.	11.50
90-130	822.28	N.A.	20.10
90-150	1621.19	N.A.	39.70
90-180	2267.65	N.A.	55.50
110-180	2064.71	N.A.	50.50
0-180	4085.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.06
10-20	205.04
20-30	297.88
30-40	338.93
40-50	328.27
50-60	273.56
60-70	187.09
70-80	91.41
80-90	22.26
90-100	46.83
100-110	156.11
110-120	265.69
120-130	353.65
130-140	401.15
140-150	397.76
150-160	338.45
160-170	227.63
170-180	80.37

IES INDOOR REPORT

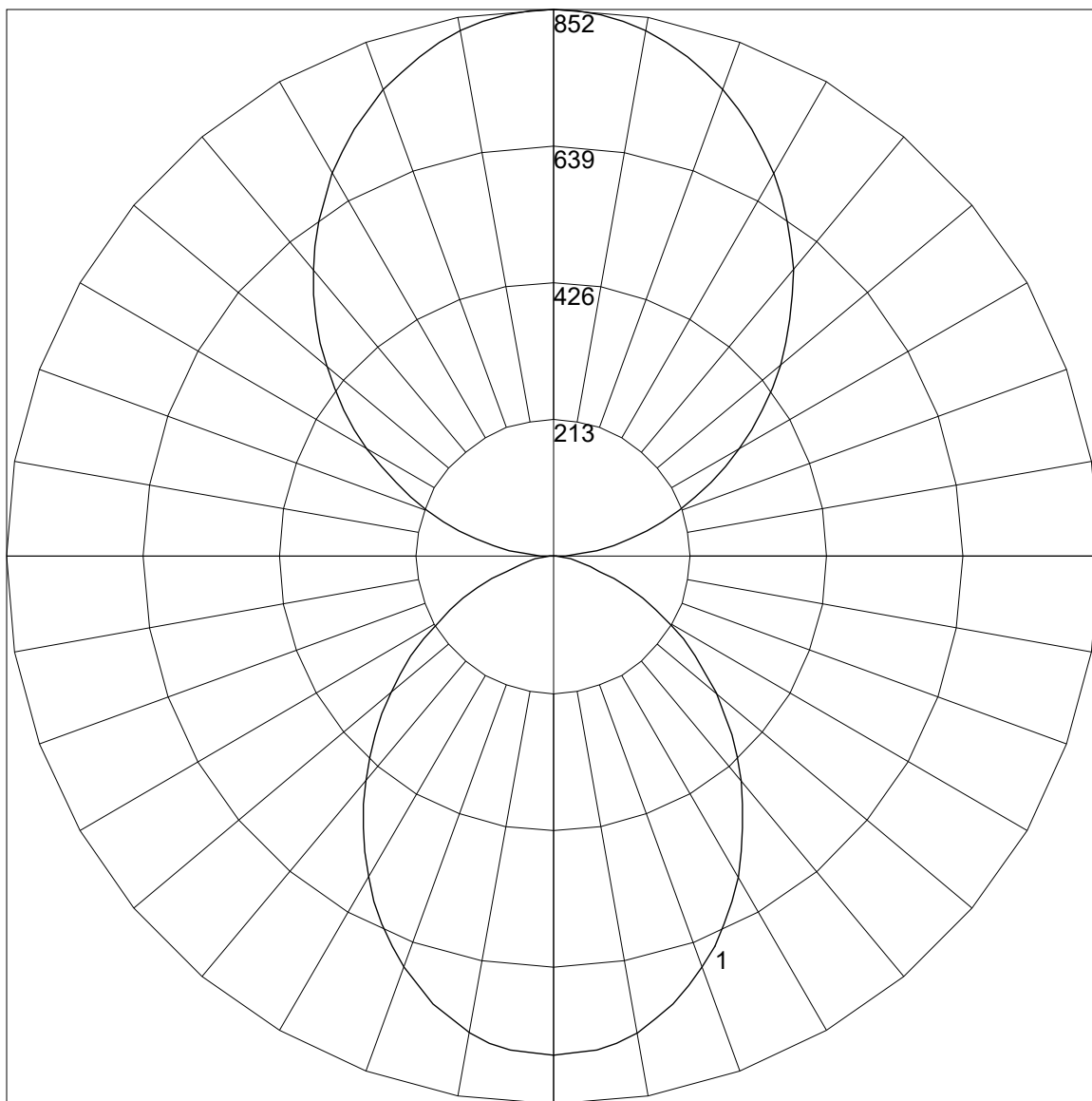
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	69	66	58	56	55	46	45	44	38
2	88	81	75	70	81	75	70	65	62	59	55	51	48	46	40	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	67	58	52	46	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	26	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	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 852.307 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)