

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-TG-F-ITL90353.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.003 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-H-H-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 56.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.6 WATTS

[_ABSOLUTE]LUMENS]6173

[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	6173
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	8129	7426	6885
55	7577	6533	5833
65	6891	5398	4508
75	6008	3718	2831
85	4387	2413	2267

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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	1172.069	1172.069	1172.069	1172.069	1172.069
2.5	1169.736	1168.958	1169.736	1169.736	1169.736
5.0	1164.291	1163.514	1163.514	1164.291	1165.069
7.5	1155.736	1154.958	1154.958	1154.958	1154.181
10.0	1144.848	1140.959	1142.514	1140.181	1137.070
12.5	1129.293	1124.626	1124.626	1119.960	1114.515
15.0	1111.404	1103.627	1102.849	1096.627	1088.850
17.5	1089.627	1080.294	1076.406	1067.850	1060.073
20.0	1063.962	1053.073	1046.851	1035.185	1028.185
22.5	1035.963	1024.296	1014.186	1000.186	992.409
25.0	1005.630	992.409	979.187	962.076	954.299
27.5	972.965	958.188	941.077	922.411	913.856
30.0	937.188	922.411	902.190	881.190	871.080
32.5	899.856	885.079	860.969	837.637	825.193
35.0	862.525	845.414	818.971	793.305	780.083
37.5	823.637	804.193	774.639	745.862	734.196
40.0	783.194	762.973	729.529	700.753	687.531
42.5	742.751	720.196	685.975	654.088	640.866
45.0	701.530	677.420	640.866	606.645	594.201
47.5	660.310	633.866	595.756	559.980	547.536
50.0	617.533	589.534	549.091	512.537	500.093
52.5	573.979	545.203	503.204	466.650	454.206
55.0	530.425	501.649	457.317	420.763	408.319
57.5	487.649	457.317	412.207	375.653	363.209
60.0	444.095	412.985	367.098	330.544	318.100
62.5	400.541	368.653	321.988	286.212	274.546
65.0	355.432	325.099	278.434	243.436	232.547
67.5	312.655	281.545	234.880	202.215	191.326
70.0	269.879	238.769	193.660	161.772	152.439
72.5	227.881	197.548	154.772	125.218	115.885
75.0	189.771	157.883	117.440	93.330	89.441
77.5	150.883	120.551	83.997	74.664	73.886
80.0	113.551	84.775	60.664	58.331	58.331
82.5	80.886	51.331	43.554	41.998	41.998
85.0	46.665	27.999	25.666	24.888	24.110
87.5	14.777	9.333	8.555	8.555	7.777
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.332	25.666	27.999	28.777	28.777
95.0	58.331	60.664	62.998	65.331	66.109
97.5	94.108	97.219	101.107	104.218	104.996
100.0	132.217	135.328	139.995	143.884	143.884
102.5	171.883	174.994	180.438	185.104	185.104
105.0	214.659	218.548	223.214	227.881	227.881
107.5	258.991	262.102	266.768	272.212	271.435
110.0	304.878	307.211	311.878	316.544	316.544
112.5	351.543	353.876	358.543	363.209	362.431
115.0	399.763	401.319	406.763	410.652	409.096
117.5	447.984	447.984	454.206	455.761	456.539
120.0	496.982	496.982	501.649	503.982	504.760
122.5	546.758	546.758	549.869	552.202	554.536
125.0	594.979	594.201	597.312	600.423	601.978
127.5	643.199	641.644	645.532	647.866	650.977
130.0	691.420	689.086	692.975	696.086	697.642
132.5	737.307	734.196	738.862	742.751	743.529

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

135.0	785.527	780.083	786.305	790.194	790.194
137.5	832.192	825.193	832.192	834.526	835.303
140.0	875.746	868.747	878.079	878.079	879.635
142.5	920.856	912.300	921.633	921.633	920.078
145.0	965.187	954.299	964.410	963.632	962.076
147.5	1006.408	994.742	1004.853	1004.075	1000.964
150.0	1044.518	1032.852	1042.962	1041.407	1039.851
152.5	1081.072	1070.184	1080.294	1077.961	1075.628
155.0	1115.293	1105.182	1114.515	1112.960	1109.071
157.5	1146.403	1136.292	1145.625	1141.737	1139.403
160.0	1175.958	1167.402	1175.180	1171.291	1167.402
162.5	1201.623	1193.846	1200.068	1196.179	1193.846
165.0	1224.178	1217.956	1221.845	1219.512	1217.178
167.5	1243.622	1238.955	1241.289	1239.733	1238.178
170.0	1259.177	1256.844	1257.621	1256.844	1255.288
172.5	1270.843	1270.843	1270.843	1269.288	1269.288
175.0	1280.176	1280.176	1280.176	1279.398	1279.398
177.5	1286.398	1286.398	1286.398	1286.398	1286.398
180.0	1287.954	1287.954	1287.954	1287.954	1287.954

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-TG-F-ITL90353.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	420.24	N.A.	6.80
0-30	870.38	N.A.	14.10
0-40	1382.55	N.A.	22.40
0-60	2291.99	N.A.	37.10
0-80	2712.84	N.A.	43.90
0-90	2746.49	N.A.	44.50
10-90	2636.09	N.A.	42.70
20-40	962.31	N.A.	15.60
20-50	1458.37	N.A.	23.60
40-70	1192.15	N.A.	19.30
60-80	420.85	N.A.	6.80
70-80	138.14	N.A.	2.20
80-90	33.64	N.A.	0.50
90-110	306.67	N.A.	5.00
90-120	708.16	N.A.	11.50
90-130	1242.58	N.A.	20.10
90-150	2449.84	N.A.	39.70
90-180	3426.73	N.A.	55.50
110-180	3120.06	N.A.	50.50
0-180	6173.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.40
10-20	309.84
20-30	450.14
30-40	512.17
40-50	496.06
50-60	413.38
60-70	282.71
70-80	138.14
80-90	33.64
90-100	70.76
100-110	235.91
110-120	401.49
120-130	534.41
130-140	606.19
140-150	601.07
150-160	511.45
160-170	343.98
170-180	121.46

IES INDOOR REPORT

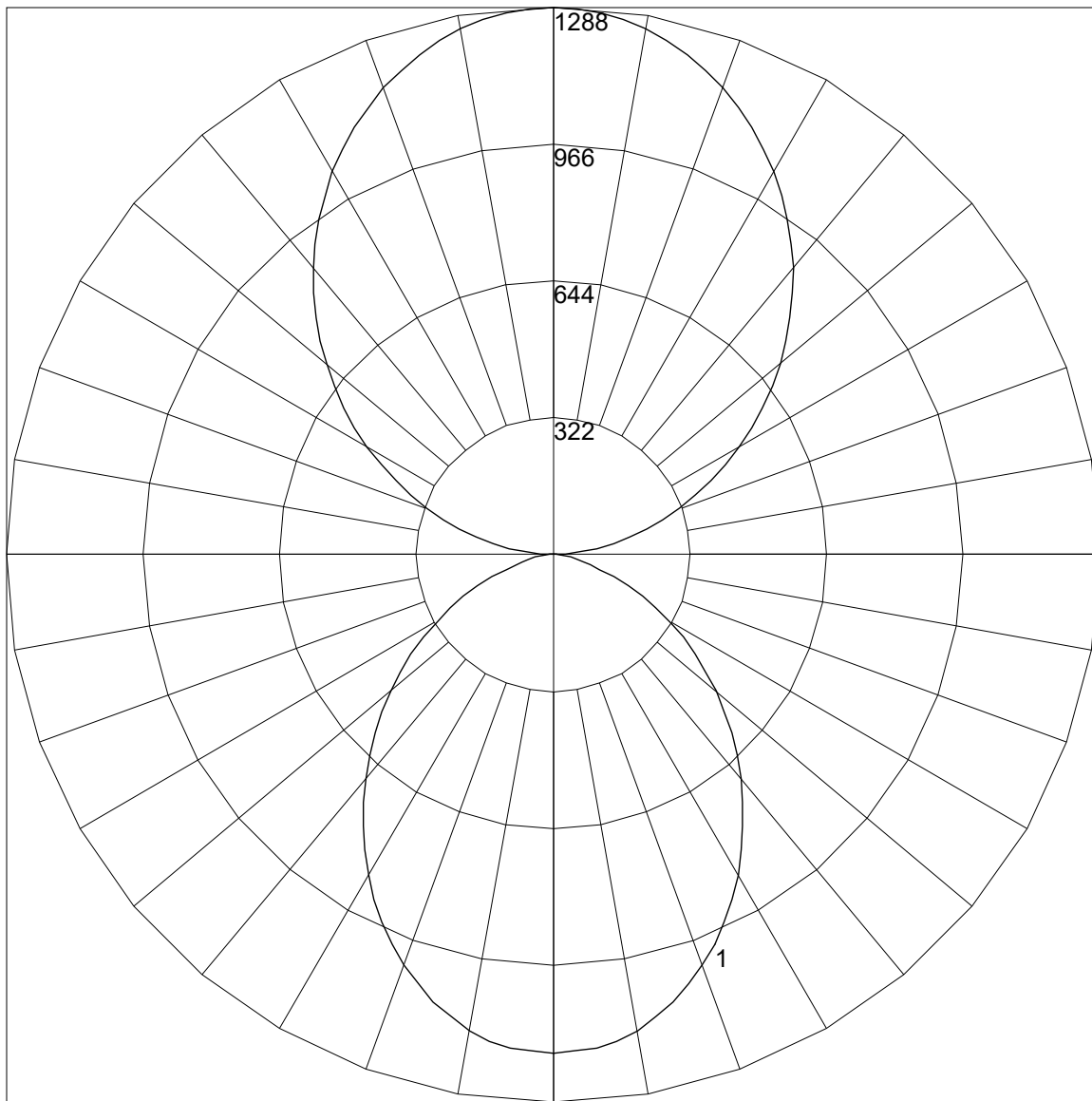
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1287.954 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)