

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-V-H-835-TG-F-ITL90353.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.006 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-V-H-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 64.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 66.1 WATTS
[ABSOLUTE LUMENS]7153
[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	7153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	64.7
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	6886
55	7577	6533	5833
65	6891	5398	4509
75	6008	3718	2832
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	1172.134	1172.134	1172.134	1172.134	1172.134
2.5	1169.801	1169.023	1169.801	1169.801	1169.801
5.0	1164.356	1163.578	1163.578	1164.356	1165.134
7.5	1155.801	1155.023	1155.023	1155.023	1154.245
10.0	1144.911	1141.023	1142.578	1140.245	1137.134
12.5	1129.356	1124.689	1124.689	1120.022	1114.578
15.0	1111.466	1103.688	1102.911	1096.688	1088.910
17.5	1089.688	1080.355	1076.466	1067.910	1060.132
20.0	1064.021	1053.132	1046.910	1035.243	1028.243
22.5	1036.021	1024.354	1014.242	1000.242	992.464
25.0	1005.687	992.464	979.242	962.130	954.352
27.5	973.019	958.241	941.130	922.463	913.907
30.0	937.241	922.463	902.240	881.240	871.128
32.5	899.907	885.129	861.017	837.683	825.239
35.0	862.573	845.461	819.016	793.349	780.127
37.5	823.683	804.238	774.682	745.904	734.237
40.0	783.238	763.015	729.570	700.792	687.569
42.5	742.792	720.236	686.014	654.124	640.902
45.0	701.569	677.458	640.902	606.679	594.234
47.5	660.346	633.901	595.790	560.011	547.566
50.0	617.568	589.567	549.122	512.566	500.121
52.5	574.011	545.233	503.232	466.676	454.231
55.0	530.455	501.677	457.342	420.786	408.341
57.5	487.676	457.342	412.230	375.674	363.229
60.0	444.120	413.008	367.118	330.562	318.117
62.5	400.563	368.674	322.006	286.228	274.561
65.0	355.451	325.118	278.450	243.449	232.560
67.5	312.673	281.561	234.894	202.226	191.337
70.0	269.894	238.783	193.670	161.781	152.447
72.5	227.893	197.559	154.781	125.225	115.891
75.0	189.782	157.892	117.447	93.335	89.446
77.5	150.892	120.558	84.002	74.668	73.890
80.0	113.558	84.779	60.668	58.334	58.334
82.5	80.890	51.334	43.556	42.001	42.001
85.0	46.668	28.001	25.667	24.889	24.112
87.5	14.778	9.334	8.556	8.556	7.778
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	33.000	36.000	37.000	37.000
95.0	75.000	78.000	81.000	84.000	85.000
97.5	121.000	125.000	130.000	134.000	135.000
100.0	170.000	174.000	180.000	185.000	185.000
102.5	221.000	225.000	232.000	238.000	238.000
105.0	276.000	281.000	287.000	293.000	293.000
107.5	333.000	337.000	343.000	350.000	349.000
110.0	392.000	395.000	401.000	407.000	407.000
112.5	452.000	455.000	461.000	467.000	466.000
115.0	514.000	516.000	523.000	528.000	526.000
117.5	576.000	576.000	584.000	586.000	587.000
120.0	639.000	639.000	645.000	648.000	649.000
122.5	703.000	703.000	707.000	710.000	713.000
125.0	765.000	764.000	768.000	772.000	774.000
127.5	827.000	825.000	830.000	833.000	837.000
130.0	889.000	886.000	891.000	895.000	897.000
132.5	948.000	944.000	950.000	955.000	956.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-H-835-TG-F-ITL90353.006.IES****CANDELA TABULATION - (Cont.)**

135.0	1010.000	1003.000	1011.000	1016.000	1016.000
137.5	1070.000	1061.000	1070.000	1073.000	1074.000
140.0	1126.000	1117.000	1129.000	1129.000	1131.000
142.5	1184.000	1173.000	1185.000	1185.000	1183.000
145.0	1241.000	1227.000	1240.000	1239.000	1237.000
147.5	1294.000	1279.000	1292.000	1291.000	1287.000
150.0	1343.000	1328.000	1341.000	1339.000	1337.000
152.5	1390.000	1376.000	1389.000	1386.000	1383.000
155.0	1434.000	1421.000	1433.000	1431.000	1426.000
157.5	1474.000	1461.000	1473.000	1468.000	1465.000
160.0	1512.000	1501.000	1511.000	1506.000	1501.000
162.5	1545.000	1535.000	1543.000	1538.000	1535.000
165.0	1574.000	1566.000	1571.000	1568.000	1565.000
167.5	1599.000	1593.000	1596.000	1594.000	1592.000
170.0	1619.000	1616.000	1617.000	1616.000	1614.000
172.5	1634.000	1634.000	1634.000	1632.000	1632.000
175.0	1646.000	1646.000	1646.000	1645.000	1645.000
177.5	1654.000	1654.000	1654.000	1654.000	1654.000
180.0	1656.000	1656.000	1656.000	1656.000	1656.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-H-835-TG-F-ITL90353.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	420.26	N.A.	5.90
0-30	870.43	N.A.	12.20
0-40	1382.63	N.A.	19.30
0-60	2292.12	N.A.	32.00
0-80	2712.99	N.A.	37.90
0-90	2746.64	N.A.	38.40
10-90	2636.23	N.A.	36.90
20-40	962.37	N.A.	13.50
20-50	1458.45	N.A.	20.40
40-70	1192.22	N.A.	16.70
60-80	420.88	N.A.	5.90
70-80	138.15	N.A.	1.90
80-90	33.65	N.A.	0.50
90-110	394.31	N.A.	5.50
90-120	910.53	N.A.	12.70
90-130	1597.66	N.A.	22.30
90-150	3149.91	N.A.	44.00
90-180	4405.95	N.A.	61.60
110-180	4011.64	N.A.	56.10
0-180	7152.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.41
10-20	309.86
20-30	450.16
30-40	512.20
40-50	496.08
50-60	413.41
60-70	282.73
70-80	138.15
80-90	33.65
90-100	90.98
100-110	303.32
110-120	516.22
120-130	687.13
130-140	779.42
140-150	772.83
150-160	657.60
160-170	442.28
170-180	156.16

IES INDOOR REPORT

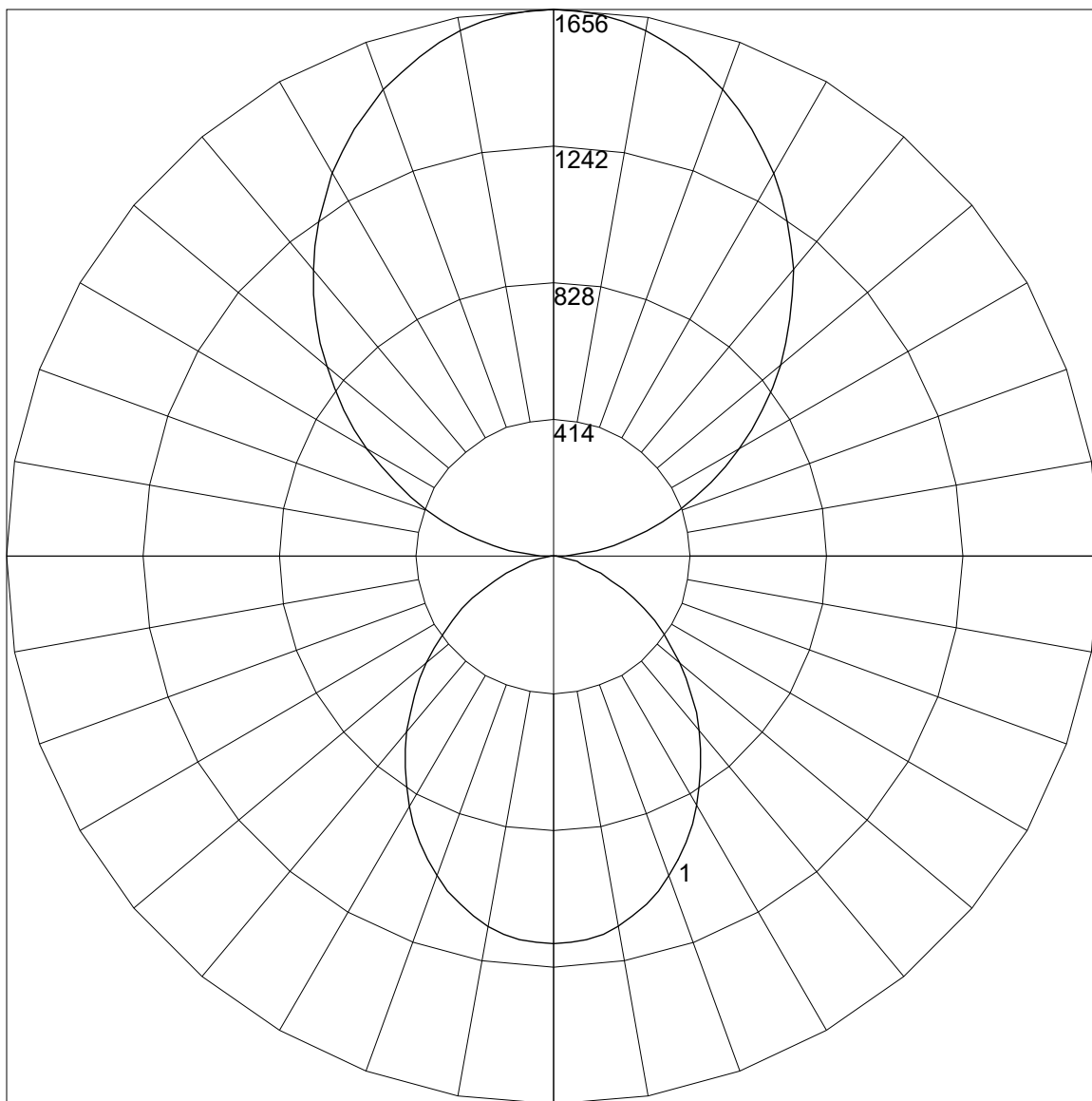
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	45	45	45	38
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	25	21
5	67	56	48	42	60	51	44	39	42	37	33	34	30	27	26	23	21	18
6	62	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1656 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)