

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-4FT-V-S-835-F-DL-ITL90629 ITL85125.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/10/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-S-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 51.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.8 WATTS

[_ABSOLUTE]LUMENS]6013

[OTHER]see www.finelite.com for source file ITL90629 and ITL85125. 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	6013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	51.6
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3551	3294	3223
55	3284	3019	2966
65	2949	2704	2700
75	2432	2329	2402
85	1579	1983	2169

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-S-835-F-DL-ITL90629 ITL85125.004.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	512.217	512.217	512.217	512.217	512.217
2.5	511.398	511.398	511.807	512.217	512.626
5.0	508.941	509.350	510.579	511.398	511.807
7.5	505.256	506.484	508.531	509.350	510.169
10.0	500.343	501.161	504.437	506.075	506.894
12.5	494.201	494.201	499.524	501.980	501.980
15.0	486.012	486.421	492.973	495.429	495.429
17.5	476.595	477.414	484.784	488.059	488.059
20.0	465.949	466.768	474.957	478.642	478.642
22.5	453.666	455.304	464.721	468.406	467.996
25.0	440.973	443.020	452.847	456.941	457.351
27.5	426.642	429.918	440.973	444.658	445.067
30.0	411.902	415.587	427.052	431.556	432.375
32.5	396.343	400.847	413.540	418.044	418.454
35.0	378.328	384.879	398.391	403.713	404.123
37.5	361.541	369.729	383.241	388.154	390.202
40.0	344.753	352.942	367.682	373.414	374.643
42.5	326.328	335.745	351.304	358.265	359.493
45.0	307.903	318.958	334.927	342.297	344.344
47.5	289.069	301.762	318.139	326.328	328.785
50.0	270.644	284.155	300.943	309.541	312.407
52.5	252.628	266.140	284.155	293.982	296.439
55.0	232.975	247.305	266.549	277.195	279.651
57.5	213.321	229.699	248.943	259.998	263.683
60.0	194.487	211.683	231.337	243.211	247.715
62.5	175.243	192.849	213.321	226.014	230.108
65.0	156.408	174.014	195.306	208.817	212.912
67.5	136.345	156.408	178.109	191.621	196.534
70.0	117.920	137.574	160.093	174.424	180.156
72.5	99.495	119.968	142.078	157.637	162.959
75.0	81.480	101.952	125.700	141.259	146.582
77.5	63.464	85.165	108.913	125.290	131.023
80.0	47.086	69.196	93.354	110.141	116.283
82.5	32.756	54.866	79.433	96.220	102.771
85.0	20.472	42.582	67.558	84.346	89.669
87.5	11.464	32.756	56.913	73.700	78.614
90.0	4.095	24.976	49.133	65.511	70.834
92.5	44.000	95.000	151.000	189.000	202.000
95.0	84.000	134.000	190.000	227.000	239.000
97.5	128.000	175.000	230.000	267.000	279.000
100.0	172.000	218.000	273.000	309.000	321.000
102.5	220.000	262.000	317.000	352.000	363.000
105.0	270.000	311.000	363.000	397.000	407.000
107.5	323.000	360.000	413.000	445.000	454.000
110.0	379.000	411.000	461.000	493.000	502.000
112.5	435.000	466.000	513.000	545.000	552.000
115.0	492.000	520.000	564.000	598.000	602.000
117.5	549.000	574.000	617.000	648.000	653.000
120.0	604.000	629.000	671.000	694.000	703.000
122.5	659.000	684.000	725.000	746.000	755.000
125.0	718.000	745.000	780.000	797.000	807.000
127.5	776.000	802.000	837.000	850.000	859.000
130.0	833.000	859.000	891.000	902.000	911.000
132.5	889.000	913.000	944.000	955.000	961.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-S-835-F-DL-ITL90629 ITL85125.004.IES****CANDELA TABULATION - (Cont.)**

135.0	946.000	968.000	997.000	1009.000	1013.000
137.5	1000.000	1017.000	1048.000	1060.000	1062.000
140.0	1057.000	1068.000	1099.000	1111.000	1112.000
142.5	1110.000	1118.000	1148.000	1158.000	1160.000
145.0	1163.000	1163.000	1198.000	1205.000	1206.000
147.5	1212.000	1211.000	1244.000	1249.000	1251.000
150.0	1258.000	1257.000	1283.000	1292.000	1293.000
152.5	1303.000	1298.000	1322.000	1332.000	1329.000
155.0	1344.000	1337.000	1358.000	1368.000	1365.000
157.5	1382.000	1374.000	1393.000	1400.000	1399.000
160.0	1416.000	1407.000	1424.000	1428.000	1429.000
162.5	1448.000	1439.000	1455.000	1457.000	1458.000
165.0	1476.000	1468.000	1479.000	1482.000	1483.000
167.5	1499.000	1492.000	1499.000	1503.000	1504.000
170.0	1518.000	1514.000	1517.000	1520.000	1521.000
172.5	1532.000	1531.000	1532.000	1533.000	1534.000
175.0	1542.000	1542.000	1543.000	1543.000	1542.000
177.5	1550.000	1549.000	1549.000	1549.000	1550.000
180.0	1552.000	1552.000	1552.000	1552.000	1552.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-S-835-F-DL-ITL90629 ITL85125.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.08	N.A.	3.10
0-30	394.63	N.A.	6.60
0-40	641.63	N.A.	10.70
0-60	1131.11	N.A.	18.80
0-80	1448.05	N.A.	24.10
0-90	1517.68	N.A.	25.20
10-90	1469.16	N.A.	24.40
20-40	454.55	N.A.	7.60
20-50	709.68	N.A.	11.80
40-70	678.52	N.A.	11.30
60-80	316.94	N.A.	5.30
70-80	127.89	N.A.	2.10
80-90	69.63	N.A.	1.20
90-110	561.61	N.A.	9.30
90-120	1113.23	N.A.	18.50
90-130	1803.2	N.A.	30.00
90-150	3308.17	N.A.	55.00
90-180	4495.07	N.A.	74.80
110-180	3933.46	N.A.	65.40
0-180	6012.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.52
10-20	138.56
20-30	207.54
30-40	247.00
40-50	255.13
50-60	234.35
60-70	189.04
70-80	127.89
80-90	69.63
90-100	187.81
100-110	373.80
110-120	551.62
120-130	689.98
130-140	762.06
140-150	742.91
150-160	624.00
160-170	416.44
170-180	146.46

IES INDOOR REPORT

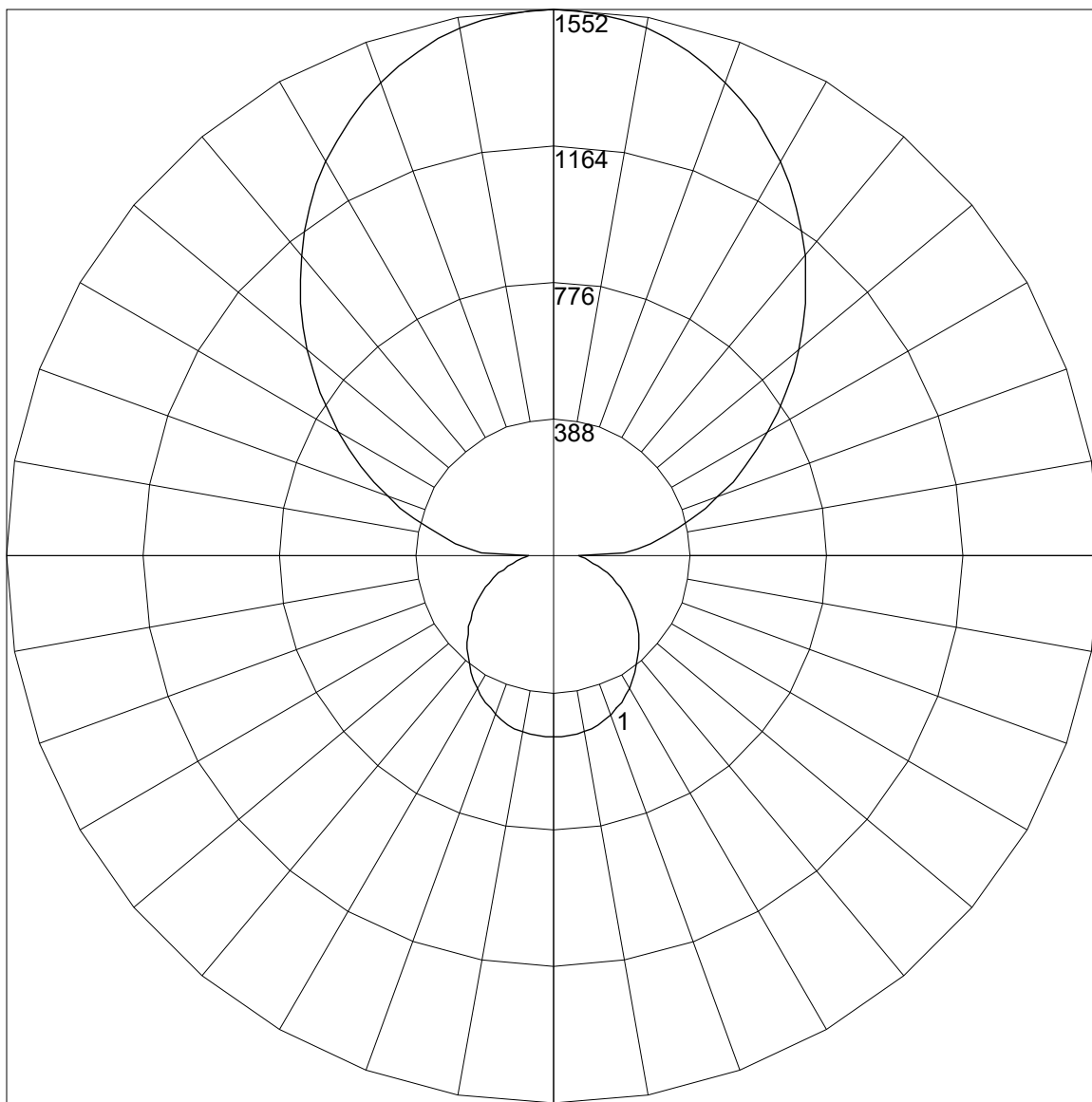
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	84	80	82	78	75	72	60	58	56	44	43	41	29	28	27	20
2	83	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	33	30	27	24	20	18	16	12
5	63	52	44	39	56	47	40	35	36	32	28	27	23	21	18	16	14	10
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	25	21	22	18	16	15	12	11	8
8	50	38	30	25	44	34	28	23	27	22	18	20	16	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

POLAR GRAPH



Maximum Candela = 1552 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)