

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-V-837-XXIC-ITL85125.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125.200 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/06/15
[ISSUEDATE]04/27/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-4-ID-4ft-V-V-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 70.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 70.5 WATTS
[OTHER]see www.finelite.com for source file 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
[_ABSOLUTE]LUMENS]7334

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	70.5
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9406	9275	9110
55	8734	8599	8423
65	7970	7860	7731
75	6970	6970	6940
85	5774	6041	6219

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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	1341.99	1341.99	1341.99	1341.99	1341.99
2.5	1339.20	1339.20	1339.20	1339.20	1339.20
5.0	1332.69	1333.62	1333.62	1332.69	1333.62
7.5	1323.39	1324.32	1323.39	1321.53	1323.39
10.0	1310.37	1307.58	1308.51	1308.51	1306.65
12.5	1294.56	1289.91	1290.84	1290.84	1286.19
15.0	1272.24	1264.80	1269.45	1267.59	1261.08
17.5	1248.06	1237.83	1242.48	1240.62	1234.11
20.0	1219.23	1208.07	1211.79	1209.00	1202.49
22.5	1187.61	1175.52	1178.31	1174.59	1168.08
25.0	1152.27	1139.25	1142.04	1138.32	1130.88
27.5	1114.14	1101.12	1102.98	1098.33	1091.82
30.0	1073.22	1060.20	1061.13	1056.48	1049.04
32.5	1030.44	1020.21	1019.28	1012.77	1006.26
35.0	987.66	976.50	975.57	967.20	961.62
37.5	941.16	930.00	930.93	920.70	915.12
40.0	894.66	885.36	884.43	874.20	868.62
42.5	850.02	837.93	835.14	826.77	821.19
45.0	798.87	790.50	787.71	779.34	773.76
47.5	749.58	741.21	739.35	730.98	725.40
50.0	700.29	692.85	690.06	681.69	677.04
52.5	651.00	643.56	642.63	633.33	628.68
55.0	601.71	595.20	592.41	584.04	580.32
57.5	551.49	545.91	543.12	535.68	531.96
60.0	503.13	496.62	494.76	488.25	485.46
62.5	452.91	447.33	445.47	439.89	438.03
65.0	404.55	399.90	398.97	394.32	392.46
67.5	355.26	352.47	351.54	347.82	345.96
70.0	307.83	305.97	305.97	303.18	301.32
72.5	261.33	262.26	260.40	261.33	258.54
75.0	216.69	217.62	216.69	217.62	215.76
77.5	173.91	174.84	176.70	176.70	176.70
80.0	133.92	134.85	136.71	137.64	137.64
82.5	97.65	98.58	99.51	100.44	100.44
85.0	60.45	62.31	63.24	64.17	65.10
87.5	26.04	27.90	28.83	31.62	31.62
90.0	0.00	0.00	0.00	0.00	0.00
92.5	27.90	29.76	31.62	35.34	36.27
95.0	66.03	66.96	70.68	75.33	76.26
97.5	106.95	107.88	112.53	117.18	116.25
100.0	148.80	150.66	155.31	159.96	159.03
102.5	191.58	195.30	199.95	204.60	204.60
105.0	239.01	242.73	247.38	251.10	250.17
107.5	289.23	292.02	294.81	298.53	298.53
110.0	343.17	343.17	345.96	349.68	348.75
112.5	397.11	395.25	398.97	404.55	399.90
115.0	451.05	449.19	451.05	455.70	451.98
117.5	504.99	505.92	506.85	507.78	504.99
120.0	559.86	561.72	560.79	559.86	558.00
122.5	615.66	617.52	617.52	614.73	611.94
125.0	672.39	675.18	675.18	669.60	666.81
127.5	729.12	730.98	732.84	724.47	718.89
130.0	783.99	784.92	786.78	781.20	776.55
132.5	839.79	838.86	839.79	836.07	830.49

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CANDELA TABULATION - (Cont.)

135.0	895.59	890.94	893.73	890.94	884.43
137.5	949.53	942.09	946.74	943.02	936.51
140.0	1003.47	995.10	1000.68	996.96	989.52
142.5	1052.76	1046.25	1052.76	1047.18	1040.67
145.0	1105.77	1094.61	1102.05	1096.47	1089.96
147.5	1153.20	1142.04	1149.48	1143.90	1137.39
150.0	1199.70	1187.61	1195.05	1189.47	1183.89
152.5	1240.62	1231.32	1238.76	1232.25	1227.60
155.0	1280.61	1271.31	1277.82	1272.24	1267.59
157.5	1319.67	1310.37	1315.95	1310.37	1306.65
160.0	1353.15	1345.71	1351.29	1345.71	1342.92
162.5	1384.77	1376.40	1382.91	1377.33	1375.47
165.0	1410.81	1404.30	1408.02	1405.23	1404.30
167.5	1434.06	1428.48	1431.27	1429.41	1429.41
170.0	1453.59	1449.87	1451.73	1449.87	1449.87
172.5	1467.54	1467.54	1466.61	1466.61	1466.61
175.0	1478.70	1478.70	1478.70	1477.77	1478.70
177.5	1485.21	1486.14	1486.14	1486.14	1486.14
180.0	1488.00	1488.00	1488.00	1488.00	1488.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	483.44	N.A.	6.60
0-30	1008.27	N.A.	13.70
0-40	1616.87	N.A.	22.00
0-60	2751.47	N.A.	37.50
0-80	3376.04	N.A.	46.00
0-90	3446.76	N.A.	47.00
10-90	3320.27	N.A.	45.30
20-40	1133.42	N.A.	15.50
20-50	1739.7	N.A.	23.70
40-70	1528.54	N.A.	20.80
60-80	624.57	N.A.	8.50
70-80	230.63	N.A.	3.10
80-90	70.72	N.A.	1.00
90-110	341.16	N.A.	4.70
90-120	789.17	N.A.	10.80
90-130	1390.18	N.A.	19.00
90-150	2764.08	N.A.	37.70
90-180	3887.62	N.A.	53.00
110-180	3546.46	N.A.	48.40
0-180	7334.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

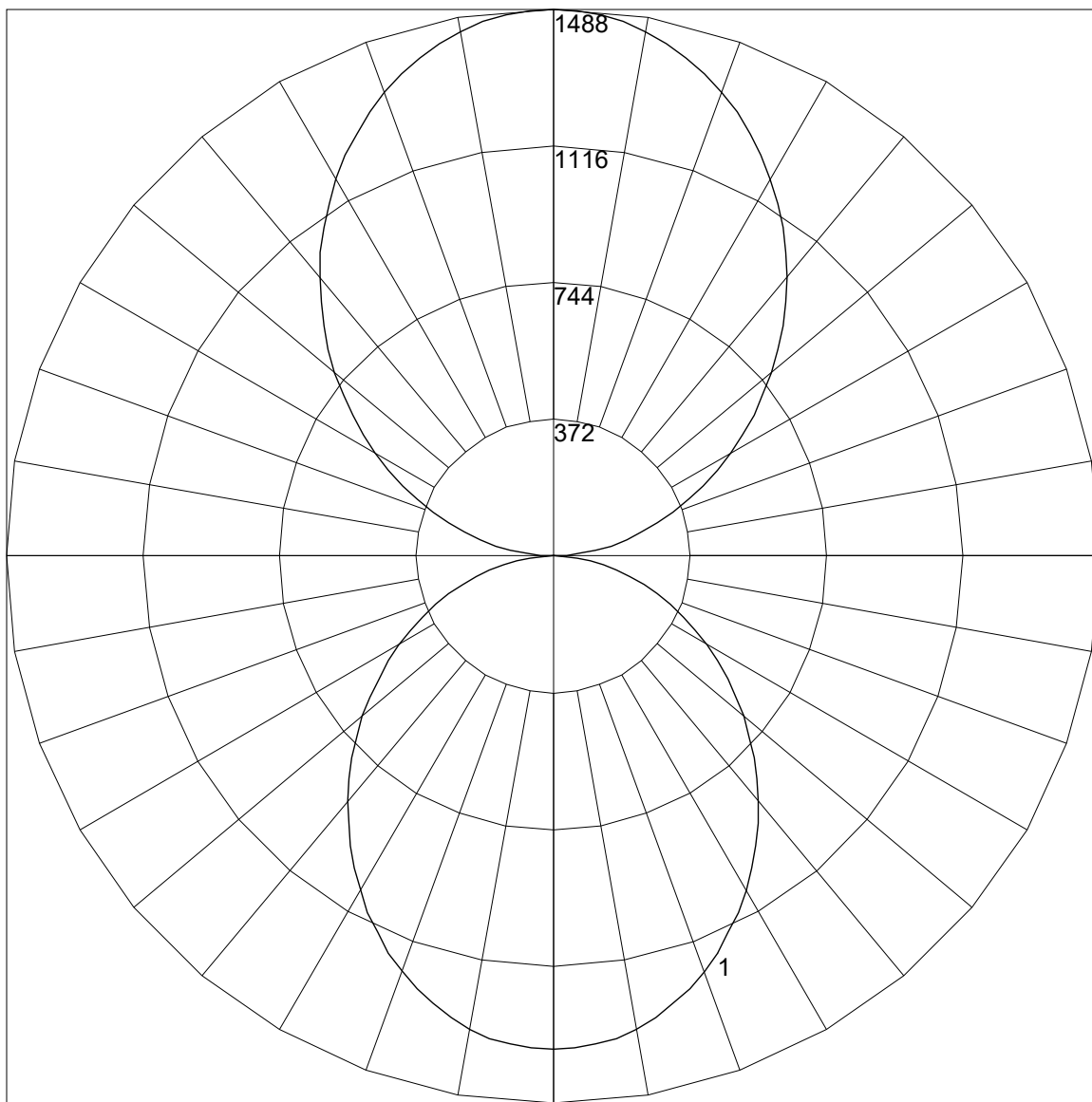
Zone	Lumens
0-10	126.48
10-20	356.96
20-30	524.83
30-40	608.60
40-50	606.28
50-60	528.33
60-70	393.94
70-80	230.63
80-90	70.72
90-100	79.72
100-110	261.44
110-120	448.01
120-130	601.01
130-140	687.56
140-150	686.34
150-160	586.85
160-170	396.43
170-180	140.26

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	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	56	47	46	45	39
2	88	81	75	70	81	75	69	65	63	59	55	52	49	46	41	39	38	33
3	81	71	64	58	74	66	59	54	55	50	47	46	42	39	37	34	32	28
4	74	63	55	49	67	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	30	27	24	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	25	27	24	21	18
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	33	28	49	38	31	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1488 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)