

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-6-EO-D-4FT-V-835-ITL89078.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89078
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/21/17
[ISSUEDATE]12/04/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-6-EO-D-4ft-V-835
[LUMINAIRE]EXTRUDED WHITE PAINTED METAL HOUSING WITH CAST WHITE PAINTED FLAT
[MORE]METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT,
[MORE]4 CIRCUIT BOARDS EACH WITH 80 LEDS, EXTRUDED FROSTED PLASTIC DIFFUSER.
[MORE]DIFFUSER FROSTED BOTH SIDES.
[LAMP]THREE HUNDRED TWENTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP
[MORE]POSITION.
[INPUT_ELECTRICAL]120.0 VOLTS, 73.2 WATTS, 0.611 AMPS
[INPUT_ELECTRICAL]277.0 VOLTS, 74.3 WATTS, 0.279 AMPS
[MOUNTING]SURFACE
[LEDDRIVER]TWO OSRAM OTi 50/120-277/1A4 DIM L, DRIVERS HAVE MULTIPLE
[MORE]LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR
[MORE]THIS TEST, CLIENT STATES EACH DRIVER PROGRAMMED FOR 700mA
[MORE]OUTPUT.
[NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
[MORE]VOLTAGE (277VAC, 60Hz) TO THE DRIVERS.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]TEST DISTANCE = 35.0 FEET
[ABSOLUTE LUMENS]8026

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8026
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	73.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.43 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16125	16115	16047
55	15335	15323	15264
65	14436	14404	14404
75	13425	13319	13372
85	12399	11929	11929

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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	2915.570	2915.570	2915.570	2915.570	2915.570
2.5	2912.270	2911.171	2912.270	2912.270	2912.270
5.0	2902.372	2900.173	2900.173	2901.272	2900.173
7.5	2885.875	2883.676	2882.576	2881.476	2881.476
10.0	2859.480	2852.881	2857.280	2857.280	2853.981
12.5	2823.187	2813.288	2824.286	2823.187	2816.588
15.0	2781.394	2765.997	2783.594	2783.594	2773.696
17.5	2731.903	2715.406	2734.103	2736.302	2724.205
20.0	2675.813	2656.017	2674.714	2680.213	2667.015
22.5	2610.925	2592.229	2612.025	2614.225	2604.326
25.0	2541.638	2527.340	2543.837	2543.837	2535.039
27.5	2466.851	2449.255	2470.151	2471.251	2461.352
30.0	2386.566	2370.069	2388.766	2388.766	2382.167
32.5	2307.380	2287.584	2306.281	2302.981	2297.482
35.0	2218.297	2197.400	2217.197	2212.798	2208.398
37.5	2125.913	2107.217	2125.913	2120.414	2118.215
40.0	2030.231	2012.634	2031.331	2024.732	2022.532
42.5	1933.448	1918.051	1933.448	1930.149	1924.650
45.0	1833.367	1819.069	1832.267	1828.967	1824.568
47.5	1731.085	1717.888	1731.085	1727.786	1727.786
50.0	1627.704	1615.606	1626.604	1623.305	1624.405
52.5	1521.023	1510.025	1519.924	1516.624	1518.824
55.0	1414.343	1404.445	1413.243	1409.944	1407.744
57.5	1305.463	1296.664	1304.363	1305.463	1302.163
60.0	1196.582	1188.884	1195.483	1196.582	1193.283
62.5	1088.802	1081.103	1086.602	1088.802	1085.503
65.0	981.022	974.423	978.822	977.722	978.822
67.5	874.341	867.742	871.042	871.042	872.141
70.0	767.660	761.062	763.261	763.261	765.461
72.5	663.179	656.581	658.780	659.880	665.379
75.0	558.698	555.399	554.299	553.199	556.499
77.5	458.617	455.317	456.417	455.317	456.417
80.0	365.134	357.435	357.435	359.635	358.535
82.5	268.351	260.653	260.653	263.952	261.752
85.0	173.768	167.170	167.170	170.469	167.170
87.5	81.385	74.786	75.886	80.285	76.986
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1058.72	N.A.	13.20
0-30	2227.66	N.A.	27.80
0-40	3610.36	N.A.	45.00
0-60	6281.14	N.A.	78.30
0-80	7838.36	N.A.	97.70
0-90	8025.67	N.A.	100.00
10-90	7750.18	N.A.	96.60
20-40	2551.64	N.A.	31.80
20-50	3961.71	N.A.	49.40
40-70	3639.13	N.A.	45.30
60-80	1557.21	N.A.	19.40
70-80	588.87	N.A.	7.30
80-90	187.32	N.A.	2.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	8025.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	275.50
10-20	783.22
20-30	1168.94
30-40	1382.7
40-50	1410.07
50-60	1260.72
60-70	968.35
70-80	588.87
80-90	187.32
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

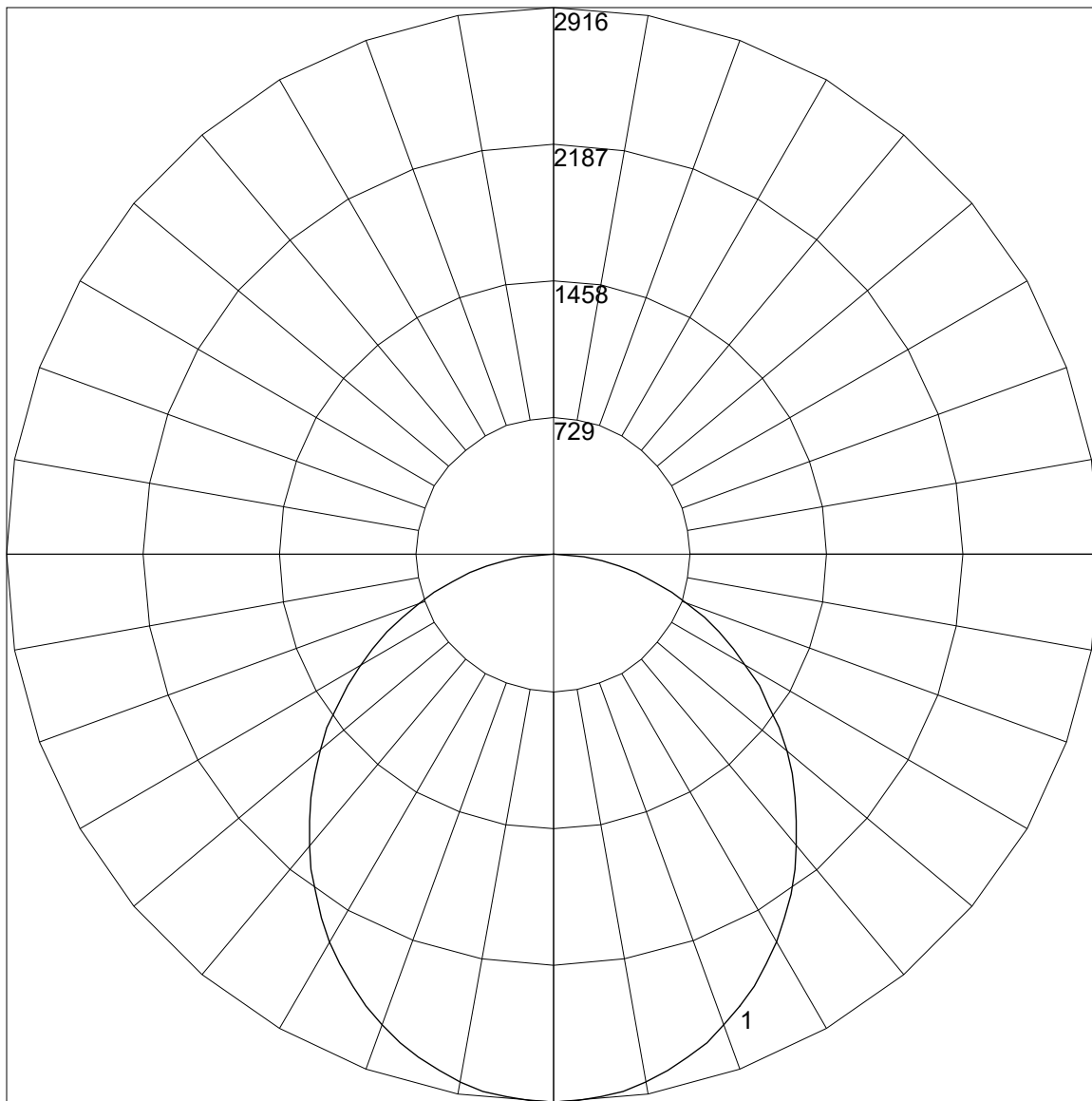
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2915.57 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)