

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-2-D-4FT-B-835-ABL-8H-ITL85136.202.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85136.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/14/15
[ISSUE DATE]02/09/17
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-D-4ft-B-835-ABL-8H
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 18.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 19.6 WATTS
[ABSOLUTE LUMENS]1655

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.67 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7177	2109	1583
55	6158	1451	1063
65	5062	928	671
75	3808	515	367
85	1898	161	116

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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	686.709	686.709	686.709	686.709	686.709
2.5	686.194	685.680	685.680	685.680	685.680
5.0	683.106	682.591	682.591	682.076	681.561
7.5	677.443	677.443	675.899	675.384	674.355
10.0	671.266	668.177	667.663	666.633	665.089
12.5	661.485	657.367	656.852	654.793	651.705
15.0	650.160	644.498	643.983	640.379	636.261
17.5	636.776	629.569	629.054	623.907	618.244
20.0	620.818	613.096	611.552	604.345	598.683
22.5	603.830	595.079	591.991	583.240	576.547
25.0	583.240	575.003	570.885	560.075	553.383
27.5	562.649	553.383	547.720	536.395	532.277
30.0	540.513	531.247	524.040	511.686	507.053
32.5	517.348	509.112	499.846	486.977	481.829
35.0	493.154	484.918	475.137	461.238	456.605
37.5	468.960	460.723	450.428	436.014	430.866
40.0	442.706	434.470	425.204	409.761	403.583
42.5	416.967	410.275	399.465	383.507	378.359
45.0	392.258	384.537	373.212	358.798	353.135
47.5	366.519	359.313	347.988	334.089	328.426
50.0	340.266	334.089	322.764	309.379	304.232
52.5	314.527	308.350	297.540	285.185	280.552
55.0	289.818	283.641	273.860	262.020	257.387
57.5	264.079	258.932	249.151	238.341	234.222
60.0	239.885	234.737	225.471	216.205	212.602
62.5	215.691	211.058	202.821	194.585	190.981
65.0	192.526	187.893	180.686	173.479	170.390
67.5	169.876	165.757	159.580	153.918	150.314
70.0	148.255	144.652	138.989	134.356	131.267
72.5	126.635	123.546	118.913	115.309	112.736
75.0	106.044	103.470	100.381	96.778	94.719
77.5	86.482	84.423	81.849	78.760	77.216
80.0	67.435	66.406	63.832	61.773	61.258
82.5	49.418	48.904	46.844	45.815	45.300
85.0	31.916	31.401	30.372	29.342	29.342
87.5	14.414	14.414	14.414	13.899	13.899
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	245.64	N.A.	14.80
0-30	507.27	N.A.	30.60
0-40	803.67	N.A.	48.60
0-60	1335.44	N.A.	80.70
0-80	1621.43	N.A.	98.00
0-90	1655.15	N.A.	100.00
10-90	1590.49	N.A.	96.10
20-40	558.03	N.A.	33.70
20-50	845.42	N.A.	51.10
40-70	711.43	N.A.	43.00
60-80	285.99	N.A.	17.30
70-80	106.32	N.A.	6.40
80-90	33.72	N.A.	2.00
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	1655.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.66
10-20	180.98
20-30	261.62
30-40	296.41
40-50	287.39
50-60	244.37
60-70	179.67
70-80	106.32
80-90	33.72
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

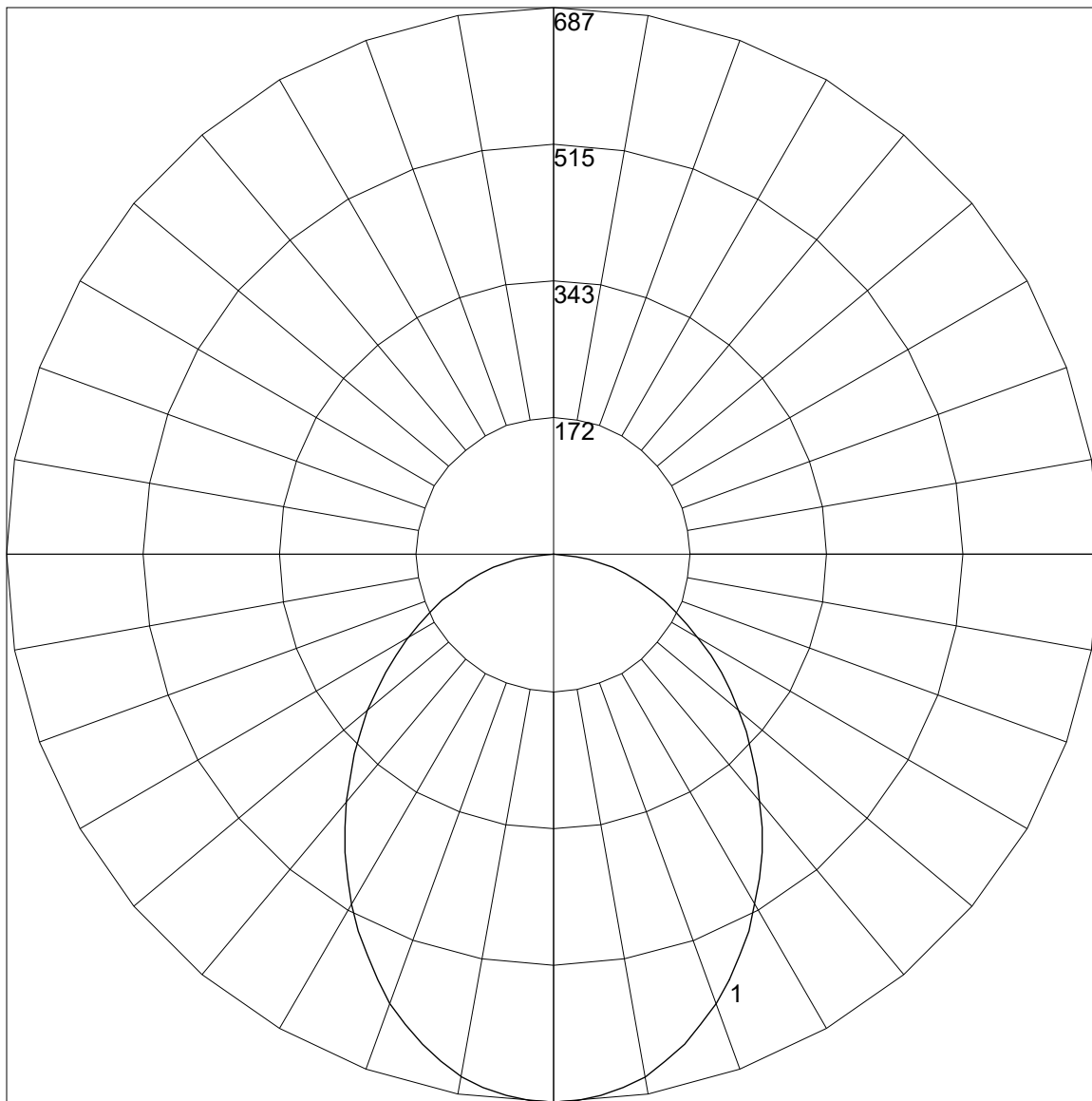
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 686.709 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)