

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 : HPO-P-D-4FT-H-835-RB-ITL93794.303.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93794.303 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]08/19/20
[TEST DATE]09/08/20
[MANUFACT]FINELITE, INC.
[LUMCAT]FINELITE HPO-P-D-4ft-H-835-RB
[INPUT_ELECTRICAL]120.0 VOLTS, 26.5 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 26.7 WATTS
[ABSOLUTE LUMENS]3235
[OTHER]see www.finelite.com for source file ITL93794. 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
[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3235
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	26.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12393	11256	11122
55	11671	10347	10466
65	10736	9551	10214
75	9588	9438	11156
85	7692	12664	15446

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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	1038.403	1038.403	1038.403	1038.403	1038.403
2.5	1036.847	1036.847	1036.847	1036.847	1036.847
5.0	1032.180	1032.958	1032.958	1033.736	1033.736
7.5	1025.958	1025.180	1026.735	1027.513	1028.291
10.0	1015.846	1015.068	1018.957	1020.513	1019.735
12.5	1004.956	1001.845	1007.290	1010.401	1009.623
15.0	990.177	985.510	994.067	997.956	997.178
17.5	973.843	966.843	978.510	983.955	982.399
20.0	952.842	947.397	959.064	966.843	966.065
22.5	931.062	925.618	938.841	947.397	945.841
25.0	905.394	900.727	917.061	924.840	926.395
27.5	879.726	875.059	892.171	900.727	902.283
30.0	850.946	847.057	866.502	876.614	877.392
32.5	819.833	818.277	836.945	848.612	850.946
35.0	789.497	787.942	808.165	819.055	822.944
37.5	756.828	756.051	777.052	789.497	793.386
40.0	721.048	723.382	743.605	759.162	763.051
42.5	686.046	689.935	710.937	727.271	732.716
45.0	651.821	654.155	677.490	693.046	700.825
47.5	613.708	618.375	642.487	660.378	668.934
50.0	575.594	581.817	605.929	626.931	637.043
52.5	538.258	545.259	570.927	595.040	605.152
55.0	500.145	505.589	534.369	561.593	574.816
57.5	462.031	468.254	498.589	529.702	543.703
60.0	420.028	430.140	462.031	500.145	514.923
62.5	381.137	392.026	428.584	469.809	487.699
65.0	341.467	353.135	396.693	441.030	461.253
67.5	303.354	315.799	365.580	416.139	437.140
70.0	264.462	280.019	335.245	392.026	414.583
72.5	227.126	245.794	308.021	371.803	395.138
75.0	189.790	211.570	284.686	353.135	379.581
77.5	154.010	181.234	265.240	338.356	364.802
80.0	119.008	154.788	247.350	325.133	353.135
82.5	86.339	133.009	235.682	315.799	344.579
85.0	55.226	117.452	226.348	308.021	337.578
87.5	23.335	108.896	220.904	304.131	335.245
90.0	0.000	105.785	219.348	303.354	333.689

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	378.22	N.A.	11.70
0-30	799.63	N.A.	24.70
0-40	1303.43	N.A.	40.30
0-60	2303.4	N.A.	71.20
0-80	3000.7	N.A.	92.70
0-90	3235.27	N.A.	100.00
10-90	3137.14	N.A.	97.00
20-40	925.21	N.A.	28.60
20-50	1446.31	N.A.	44.70
40-70	1395.47	N.A.	43.10
60-80	697.30	N.A.	21.60
70-80	301.80	N.A.	9.30
80-90	234.57	N.A.	7.30
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	3235.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.13
10-20	280.09
20-30	421.41
30-40	503.81
40-50	521.09
50-60	478.87
60-70	395.50
70-80	301.80
80-90	234.57
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

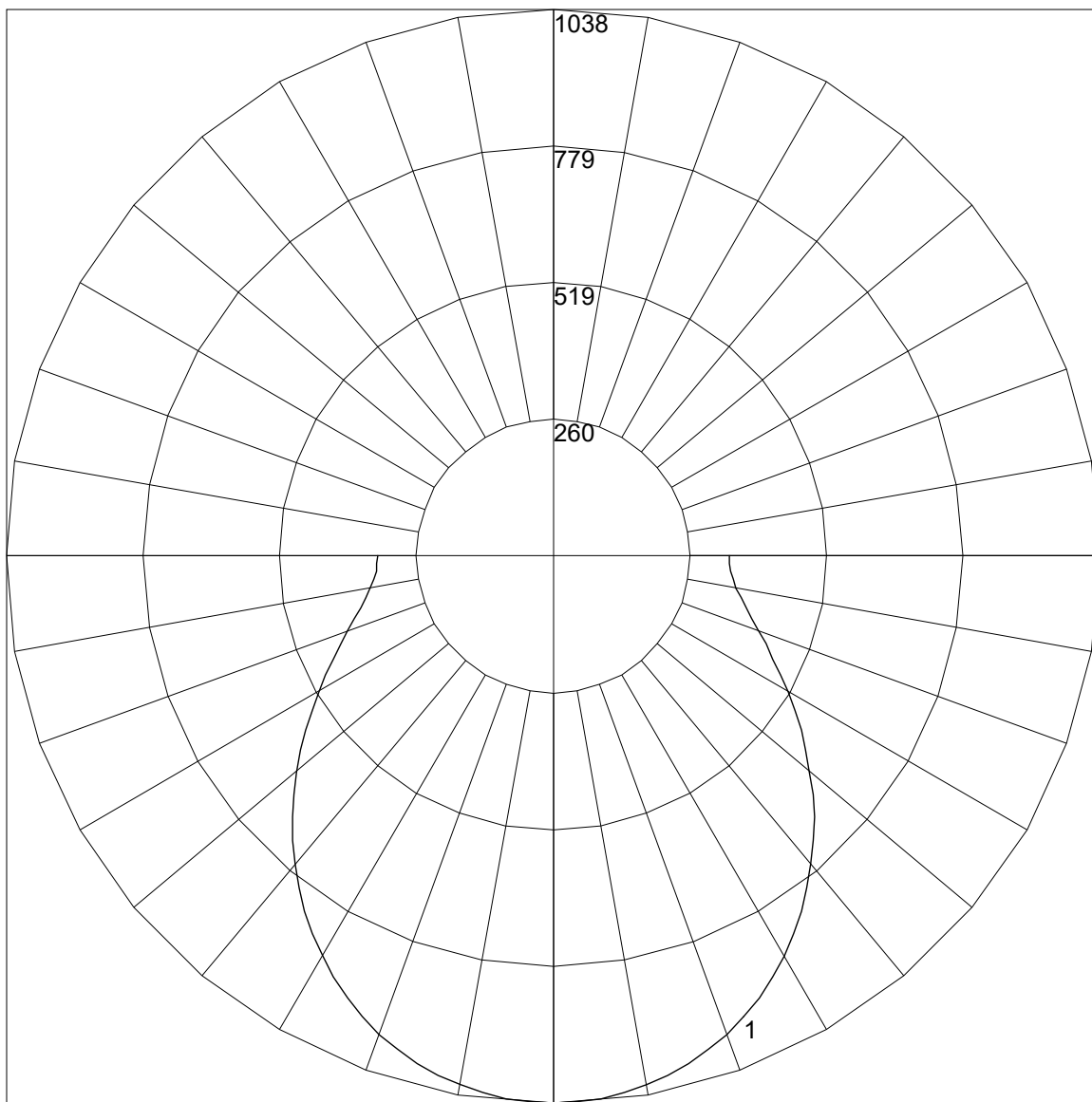
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79
2	96	87	79	72	93	85	77	71	81	75	70	78	72	68	74	70	66	64
3	87	76	67	59	85	74	66	59	71	64	58	68	62	57	65	60	56	53
4	80	67	57	50	77	65	57	50	63	55	49	60	54	48	58	52	48	45
5	73	60	50	43	71	58	49	43	56	48	42	54	47	42	52	46	41	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1038.403 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)