

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 : HO4-UD-RO-4FT-S-H-835-OPN-ITL89462.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.014 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/25/17

[ISSUEDATE]08/31/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-UD-RO-4ft-S-H-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 40.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 42.9 WATTS

[_ABSOLUTE]LUMENS]4752

[OTHER]see www.finelite.com for source file ITL89462. 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	4752
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	40.6
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8450	5479	4884
55	8351	4868	4207
65	8130	4204	3921
75	7650	3906	3534
85	5805	1824	493

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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	802.600	802.600	802.600	802.600	802.600
2.5	801.822	801.044	799.489	798.711	797.933
5.0	799.489	797.156	793.267	790.156	790.156
7.5	796.378	791.712	785.490	781.602	780.824
10.0	791.712	783.935	777.713	773.047	770.714
12.5	786.268	774.602	767.603	762.937	759.048
15.0	779.268	763.714	757.492	752.048	748.160
17.5	770.714	752.048	745.827	740.383	737.272
20.0	760.603	739.605	733.383	729.495	724.828
22.5	749.715	725.606	719.385	715.496	711.607
25.0	736.494	710.052	704.608	701.497	698.386
27.5	721.718	694.498	689.054	686.721	683.610
30.0	705.386	676.610	672.722	671.166	668.833
32.5	688.276	658.723	654.834	654.057	652.501
35.0	669.611	639.280	636.947	637.725	636.169
37.5	647.835	619.060	617.504	619.060	617.504
40.0	626.837	598.061	598.839	599.617	598.061
42.5	605.061	575.508	578.619	579.396	577.841
45.0	580.952	552.954	557.620	557.620	555.287
47.5	556.842	528.845	536.622	535.067	531.178
50.0	530.400	504.736	513.291	510.180	506.291
52.5	503.180	479.849	488.404	483.738	479.071
55.0	474.405	453.407	462.739	454.962	458.073
57.5	445.630	427.742	436.297	436.297	442.519
60.0	414.521	401.300	407.522	418.410	426.187
62.5	383.413	373.302	380.302	402.078	410.632
65.0	350.749	345.305	359.303	386.523	395.078
67.5	318.085	317.307	340.638	370.191	379.524
70.0	284.643	288.531	322.751	353.859	361.637
72.5	250.424	258.978	305.641	335.194	341.416
75.0	215.427	231.758	286.198	312.641	316.529
77.5	179.652	210.760	265.200	283.087	284.643
80.0	144.655	191.317	237.980	239.536	233.314
82.5	108.880	171.097	193.650	165.653	148.543
85.0	71.550	140.766	107.324	52.885	37.330
87.5	33.442	68.439	38.886	20.221	10.110
90.0	0.000	41.219	30.331	16.332	6.222
92.5	5.731	28.654	24.969	17.601	12.280
95.0	15.964	38.887	36.022	27.835	22.513
97.5	31.519	52.804	49.939	41.343	34.794
100.0	50.348	69.178	65.494	55.670	49.120
102.5	71.634	90.872	83.504	73.271	65.903
105.0	97.831	114.614	105.199	94.147	85.960
107.5	128.122	142.449	131.397	118.707	109.702
110.0	162.097	173.967	161.687	146.951	137.537
112.5	199.346	208.351	197.299	179.698	169.465
115.0	239.052	245.601	234.549	217.357	206.305
117.5	279.985	284.079	272.208	258.290	247.238
120.0	321.737	322.965	312.732	300.861	290.628
122.5	361.852	361.034	352.847	340.976	334.017
125.0	400.739	397.874	391.734	381.909	376.179
127.5	437.170	434.714	428.983	420.387	415.884
130.0	471.554	468.279	463.777	455.590	451.906
132.5	503.891	500.617	496.933	489.155	484.653

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-S-H-835-OPN-ITL89462.014.IES****CANDELA TABULATION - (Cont.)**

135.0	534.182	530.498	528.452	519.446	514.943
137.5	562.426	558.333	557.105	548.509	543.188
140.0	588.214	583.302	583.302	574.706	569.385
142.5	612.365	607.453	608.272	600.085	594.354
145.0	635.288	629.148	631.195	623.827	618.096
147.5	655.755	649.205	651.661	645.112	639.791
150.0	674.175	668.444	671.719	664.351	659.439
152.5	691.367	684.408	688.911	681.952	677.449
155.0	705.284	699.963	704.466	697.507	694.641
157.5	719.202	713.880	718.383	711.834	709.378
160.0	731.891	726.160	731.072	724.932	723.295
162.5	741.715	736.803	741.306	736.803	734.756
165.0	750.720	746.627	749.902	747.036	745.399
167.5	758.498	756.042	756.860	756.042	755.223
170.0	764.638	763.000	763.410	763.410	762.591
172.5	769.140	768.731	768.322	768.731	768.731
175.0	772.415	772.824	772.415	772.824	772.824
177.5	774.462	774.871	774.462	774.462	774.871
180.0	775.280	775.280	775.280	775.280	775.280

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-S-H-835-OPN-ITL89462.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	289.74	N.A.	6.10
0-30	616.53	N.A.	13.00
0-40	1018.11	N.A.	21.40
0-60	1862.07	N.A.	39.20
0-80	2512.81	N.A.	52.90
0-90	2624.23	N.A.	55.20
10-90	2548.92	N.A.	53.60
20-40	728.37	N.A.	15.30
20-50	1159.83	N.A.	24.40
40-70	1207.05	N.A.	25.40
60-80	650.73	N.A.	13.70
70-80	287.65	N.A.	6.10
80-90	111.42	N.A.	2.30
90-110	147.14	N.A.	3.10
90-120	376.07	N.A.	7.90
90-130	723.51	N.A.	15.20
90-150	1520.46	N.A.	32.00
90-180	2128.07	N.A.	44.80
110-180	1980.92	N.A.	41.70
0-180	4752.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.31
10-20	214.42
20-30	326.79
30-40	401.58
40-50	431.46
50-60	412.51
60-70	363.08
70-80	287.65
80-90	111.42
90-100	37.11
100-110	110.04
110-120	228.93
120-130	347.43
130-140	404.64
140-150	392.32
150-160	322.93
160-170	211.23
170-180	73.45

IES INDOOR REPORT

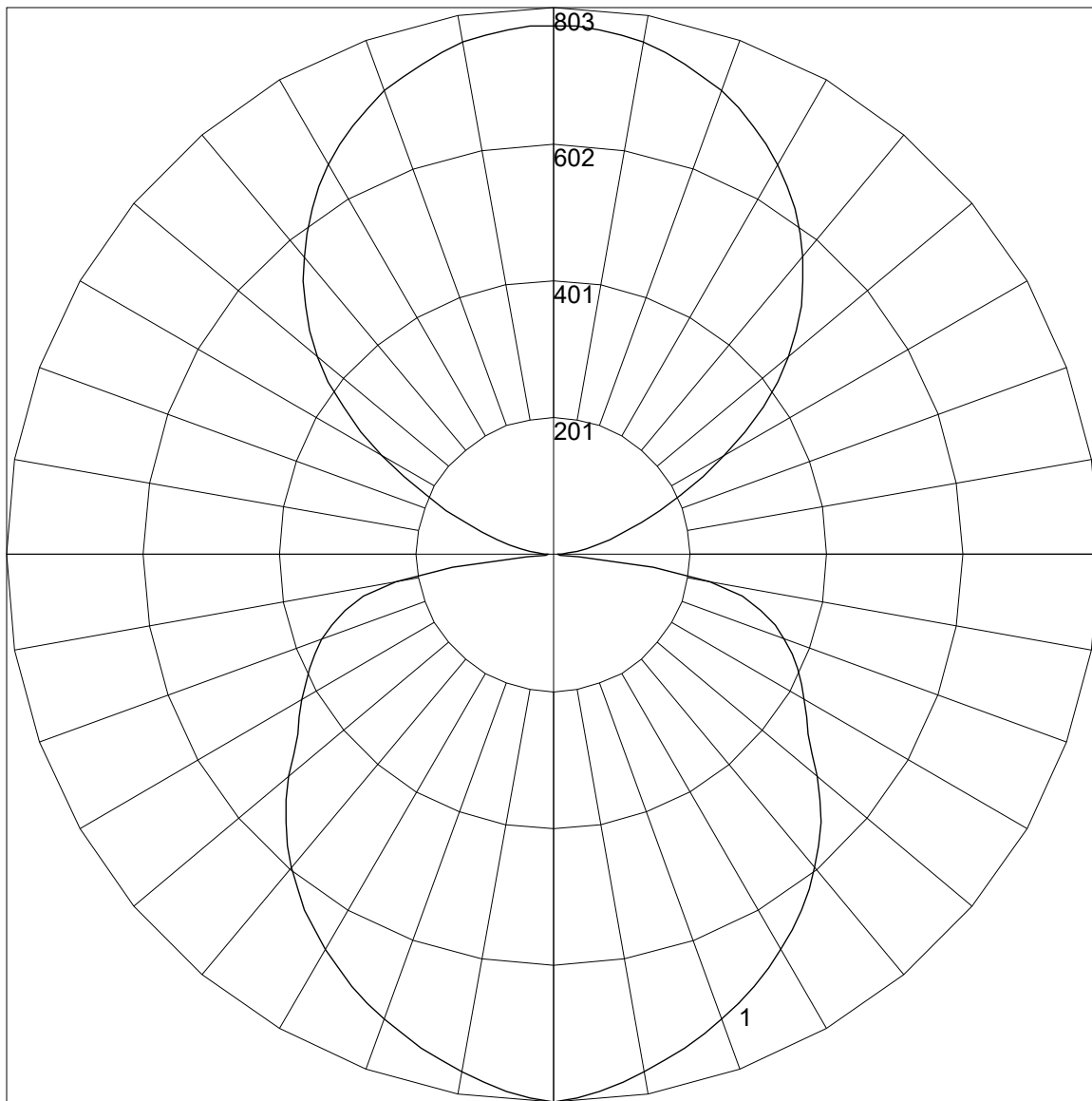
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	98	93	89	85	91	86	83	79	74	71	68	63	60	59	52	51	49	44
2	88	80	74	68	82	75	69	64	64	59	55	54	51	48	45	42	40	36
3	80	70	62	56	74	65	58	52	56	50	46	47	43	40	39	36	33	29
4	73	62	53	47	67	57	50	44	49	43	39	42	37	33	35	31	28	25
5	67	55	46	40	62	51	43	37	44	38	33	37	32	29	31	27	24	21
6	62	49	40	34	57	46	38	32	39	33	29	34	29	25	28	24	21	18
7	57	44	36	30	53	41	34	28	36	30	25	30	26	22	26	22	19	16
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	20	17	14
9	49	36	29	23	45	34	27	22	30	24	20	25	21	17	22	18	15	13
10	46	33	26	21	42	31	24	20	27	22	18	24	19	16	20	16	14	12

POLAR GRAPH



Maximum Candela = 802.6 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)