

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-ID-RO-4FT-V-B-835-TG-ITL90233.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.006 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/23/18

[TESTDATE]03/06/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-ID-RO-4ft-V-B-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.9 WATTS

[_ABSOLUTE]LUMENS]6509

[OTHER]see www.finelite.com for source file ITL90233. 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	6509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	53.8
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	6536	4165	3702
55	6435	3683	3188
65	6266	3180	2995
75	5879	3015	2823
85	4572	1652	494

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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	621.393	621.393	621.393	621.393	621.393
2.5	620.894	620.396	618.401	616.905	616.905
5.0	619.897	616.905	613.414	610.920	609.923
7.5	617.403	612.416	607.429	603.439	603.439
10.0	613.912	605.933	599.948	595.959	594.961
12.5	609.424	597.954	591.969	587.481	585.486
15.0	603.938	589.475	583.491	578.504	576.509
17.5	597.455	580.000	573.517	569.028	566.535
20.0	589.974	570.026	563.543	558.555	556.561
22.5	580.499	559.054	552.571	548.083	546.088
25.0	570.026	546.586	540.602	536.612	535.116
27.5	558.555	534.119	528.633	524.643	523.147
30.0	546.088	520.653	515.168	512.175	511.178
32.5	532.124	506.191	501.702	498.710	497.713
35.0	517.661	491.230	487.240	485.245	484.248
37.5	503.199	475.770	472.777	471.281	470.284
40.0	485.744	459.312	456.819	455.821	455.322
42.5	467.790	441.857	440.361	439.862	437.868
45.0	449.338	423.904	423.904	422.906	420.911
47.5	429.390	404.953	406.449	403.955	401.960
50.0	408.444	386.002	388.495	385.503	382.012
52.5	387.498	366.552	370.043	365.555	361.565
55.0	365.555	346.604	350.095	344.110	347.102
57.5	342.115	326.157	329.149	330.146	334.635
60.0	318.676	305.211	307.704	317.678	323.663
62.5	295.735	284.265	286.758	306.208	312.691
65.0	270.301	262.322	271.797	294.738	301.720
67.5	245.365	240.378	257.833	283.766	291.745
70.0	219.433	218.435	245.365	273.293	280.774
72.5	192.502	194.996	233.396	261.823	268.306
75.0	165.572	174.549	220.929	248.358	252.846
77.5	138.143	159.089	206.965	229.905	231.402
80.0	110.714	145.125	189.011	201.479	197.489
82.5	83.285	131.161	160.086	151.608	136.647
85.0	56.354	112.210	97.248	55.856	37.403
87.5	31.419	58.349	38.899	30.421	23.938
90.0	15.959	36.905	32.416	25.434	19.948
92.5	54.264	101.744	93.992	83.333	72.674
95.0	93.023	138.566	133.721	123.062	113.372
97.5	130.814	176.357	174.419	164.729	155.039
100.0	169.574	219.961	218.023	209.302	199.612
102.5	215.116	266.473	264.535	256.783	246.124
105.0	264.535	316.860	312.984	306.202	294.574
107.5	316.860	366.279	364.341	355.620	344.961
110.0	371.124	416.667	418.605	408.915	397.287
112.5	429.264	465.116	476.744	464.147	451.550
115.0	487.403	521.318	534.884	520.349	507.752
117.5	547.481	582.364	594.961	579.457	565.891
120.0	609.496	641.473	655.039	638.566	624.031
122.5	673.450	700.581	715.116	699.612	681.201
125.0	737.403	762.597	774.225	761.628	741.279
127.5	802.326	823.643	829.457	823.643	803.295
130.0	867.248	885.659	892.442	885.659	865.310
132.5	934.108	948.643	958.333	947.674	928.295

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-B-835-TG-ITL90233.006.IES****CANDELA TABULATION - (Cont.)**

135.0	999.031	1009.690	1021.318	1009.690	991.279
137.5	1063.953	1072.674	1079.457	1069.767	1053.294
140.0	1127.907	1131.783	1139.535	1127.907	1113.372
142.5	1190.891	1190.891	1197.674	1186.046	1173.450
145.0	1250.969	1248.062	1253.876	1244.186	1232.558
147.5	1307.170	1300.387	1307.170	1300.387	1287.791
150.0	1361.434	1355.620	1362.403	1354.651	1343.992
152.5	1412.791	1403.101	1412.791	1404.070	1392.442
155.0	1460.271	1448.643	1459.302	1450.581	1443.798
157.5	1502.907	1492.248	1500.000	1492.248	1487.403
160.0	1542.636	1531.008	1541.667	1532.946	1529.070
162.5	1577.519	1566.860	1576.550	1567.829	1563.953
165.0	1607.558	1599.806	1604.651	1599.806	1594.961
167.5	1632.752	1627.907	1629.845	1627.907	1625.000
170.0	1654.070	1651.163	1652.132	1651.163	1649.225
172.5	1669.574	1670.543	1668.605	1668.605	1668.605
175.0	1682.170	1682.170	1682.170	1682.170	1681.201
177.5	1689.922	1689.922	1689.922	1688.953	1688.953
180.0	1691.860	1691.860	1691.860	1691.860	1691.860

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.50	N.A.	3.40
0-30	474.50	N.A.	7.30
0-40	782.09	N.A.	12.00
0-60	1424.4	N.A.	21.90
0-80	1925.12	N.A.	29.60
0-90	2021.84	N.A.	31.10
10-90	1963.61	N.A.	30.20
20-40	558.59	N.A.	8.60
20-50	887.49	N.A.	13.60
40-70	918.98	N.A.	14.10
60-80	500.72	N.A.	7.70
70-80	224.05	N.A.	3.40
80-90	96.72	N.A.	1.50
90-110	456.22	N.A.	7.00
90-120	971.17	N.A.	14.90
90-130	1650.41	N.A.	25.40
90-150	3207.85	N.A.	49.30
90-180	4487.5	N.A.	68.90
110-180	4031.28	N.A.	61.90
0-180	6509.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

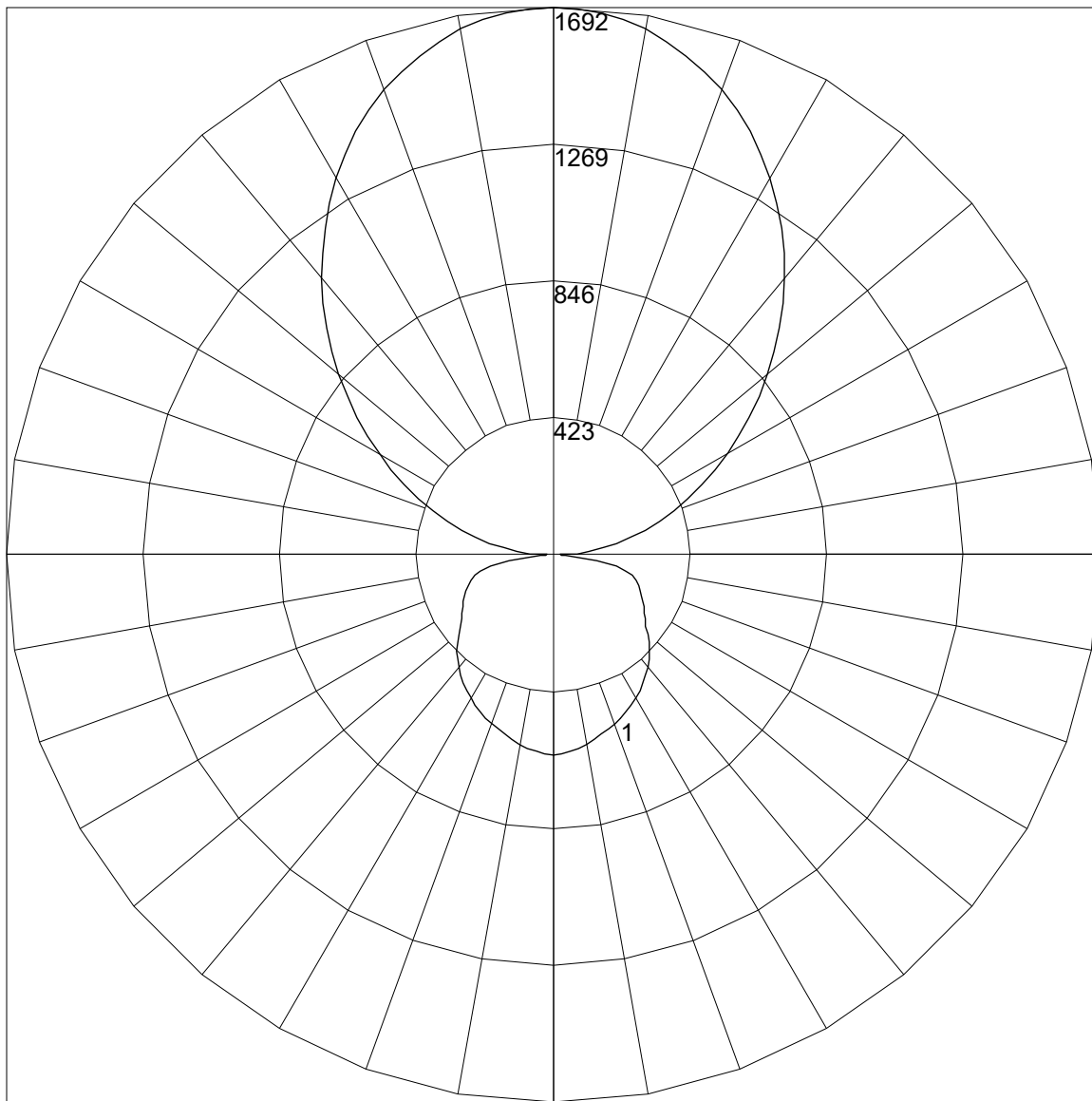
Zone	Lumens
0-10	58.23
10-20	165.27
20-30	251.00
30-40	307.59
40-50	328.90
50-60	313.42
60-70	276.67
70-80	224.05
80-90	96.72
90-100	134.24
100-110	321.98
110-120	514.95
120-130	679.24
130-140	777.99
140-150	779.45
150-160	668.62
160-170	451.44
170-180	159.58

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	88	84	81	83	79	76	73	63	60	58	47	46	44	33	32	31	25
2	84	77	70	65	75	69	64	59	54	51	47	41	38	36	29	27	26	20
3	76	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	21	16
4	70	59	51	45	62	53	46	41	42	37	33	32	28	26	22	20	18	14
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	17	16	12
6	59	47	39	33	52	42	35	30	33	28	24	25	22	19	18	15	14	10
7	54	42	34	29	48	38	31	26	30	25	21	23	19	17	16	14	12	9
8	50	38	30	25	45	34	28	23	27	22	19	21	17	15	15	12	11	8
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10	7
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	10	9	7

POLAR GRAPH



Maximum Candela = 1691.86 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)