

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-S-835-TG-ITL90233.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.005 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-S-835-TG
[INPUT_ELECTRICAL]120.0 VOLTS, 50.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 52.3 WATTS
[ABSOLUTE LUMENS]6095
[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	6095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	50
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	5198	3312	2944
55	5118	2929	2535
65	4983	2529	2382
75	4676	2398	2245
85	3636	1314	393

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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	494.189	494.189	494.189	494.189	494.189
2.5	493.792	493.395	491.809	490.619	490.619
5.0	492.999	490.619	487.843	485.860	485.066
7.5	491.016	487.050	483.083	479.910	479.910
10.0	488.239	481.893	477.134	473.961	473.168
12.5	484.670	475.548	470.788	467.218	465.632
15.0	480.307	468.805	464.046	460.079	458.493
17.5	475.151	461.269	456.113	452.544	450.560
20.0	469.202	453.337	448.181	444.215	442.628
22.5	461.666	444.611	439.455	435.886	434.299
25.0	453.337	434.696	429.936	426.763	425.573
27.5	444.215	424.780	420.417	417.244	416.055
30.0	434.299	414.071	409.709	407.329	406.536
32.5	423.194	402.569	399.000	396.620	395.827
35.0	411.692	390.671	387.498	385.911	385.118
37.5	400.190	378.376	375.996	374.806	374.013
40.0	386.308	365.287	363.304	362.511	362.114
42.5	372.030	351.405	350.216	349.819	348.232
45.0	357.355	337.127	337.127	336.334	334.747
47.5	341.490	322.056	323.245	321.262	319.676
50.0	324.832	306.984	308.967	306.587	303.811
52.5	308.174	291.516	294.292	290.723	287.550
55.0	290.723	275.651	278.427	273.668	276.048
57.5	272.081	259.390	261.769	262.563	266.132
60.0	253.440	242.732	244.715	252.647	257.406
62.5	235.196	226.073	228.057	243.525	248.681
65.0	214.968	208.622	216.158	234.402	239.955
67.5	195.137	191.171	205.053	225.677	232.023
70.0	174.513	173.720	195.137	217.348	223.297
72.5	153.095	155.078	185.618	208.226	213.382
75.0	131.678	138.817	175.703	197.517	201.086
77.5	109.864	126.522	164.597	182.842	184.032
80.0	88.050	115.416	150.319	160.235	157.062
82.5	66.236	104.311	127.315	120.573	108.674
85.0	44.818	89.240	77.341	44.421	29.747
87.5	24.987	46.405	30.936	24.194	19.038
90.0	12.692	29.350	25.780	20.228	15.865
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-S-835-TG-ITL90233.005.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	177.74	N.A.	2.90
0-30	377.36	N.A.	6.20
0-40	621.99	N.A.	10.20
0-60	1132.81	N.A.	18.60
0-80	1531.03	N.A.	25.10
0-90	1607.95	N.A.	26.40
10-90	1561.64	N.A.	25.60
20-40	444.24	N.A.	7.30
20-50	705.81	N.A.	11.60
40-70	730.86	N.A.	12.00
60-80	398.22	N.A.	6.50
70-80	178.19	N.A.	2.90
80-90	76.92	N.A.	1.30
90-110	455.43	N.A.	7.50
90-120	970.38	N.A.	15.90
90-130	1649.62	N.A.	27.10
90-150	3207.06	N.A.	52.60
90-180	4486.71	N.A.	73.60
110-180	4031.28	N.A.	66.10
0-180	6094.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

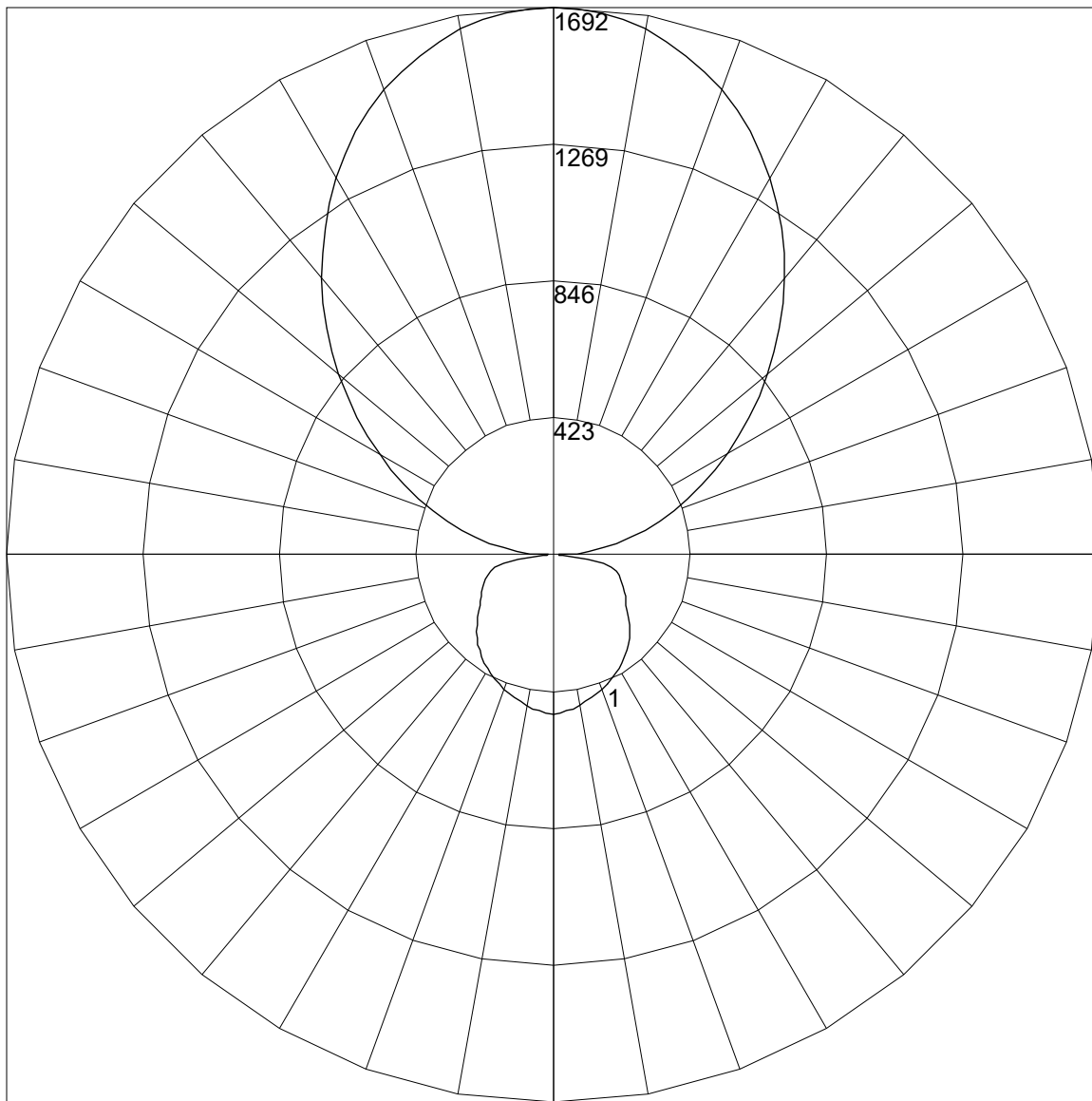
Zone	Lumens
0-10	46.31
10-20	131.43
20-30	199.62
30-40	244.62
40-50	261.57
50-60	249.26
60-70	220.03
70-80	178.19
80-90	76.92
90-100	133.45
100-110	321.98
110-120	514.95
120-130	679.24
130-140	777.99
140-150	779.45
150-160	668.62
160-170	451.44
170-180	159.58

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	92	87	83	80	82	78	75	72	60	58	56	44	43	42	29	29	28	21
2	83	76	70	65	74	68	63	58	53	49	46	38	36	34	25	24	23	17
3	76	66	59	53	67	59	53	48	46	42	38	34	31	28	22	21	19	14
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	46	40	34	36	31	27	27	23	21	18	16	14	10
6	58	46	38	33	51	41	35	30	32	27	24	24	20	18	16	14	12	9
7	54	42	34	28	47	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	37	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	17	13	11	11	9	8	6

POLAR GRAPH



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