

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-H-835-TG-ITL90233.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.007 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-H-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 63.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 65.1 WATTS

[_ABSOLUTE]LUMENS]7545

[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	7545
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	63.4
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	9877	6294	5594
55	9724	5565	4818
65	9469	4806	4526
75	8885	4556	4266
85	6909	2497	747

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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	939.046	939.046	939.046	939.046	939.046
2.5	938.292	937.538	934.524	932.263	932.263
5.0	936.785	932.263	926.987	923.219	921.712
7.5	933.016	925.480	917.943	911.914	911.914
10.0	927.741	915.683	906.639	900.610	899.102
12.5	920.958	903.624	894.580	887.798	884.783
15.0	912.668	890.812	881.768	874.232	871.217
17.5	902.871	876.493	866.695	859.913	856.144
20.0	891.566	861.420	851.622	844.086	841.071
22.5	877.247	844.840	835.042	828.259	825.245
25.0	861.420	825.998	816.955	810.925	808.665
27.5	844.086	807.157	798.867	792.838	790.577
30.0	825.245	786.809	778.519	773.997	772.489
32.5	804.143	764.953	758.170	753.648	752.141
35.0	782.287	742.343	736.314	733.300	731.792
37.5	760.431	718.980	714.458	712.198	710.690
40.0	734.053	694.110	690.342	688.834	688.081
42.5	706.922	667.732	665.471	664.718	661.703
45.0	679.037	640.601	640.601	639.094	636.079
47.5	648.891	611.962	614.223	610.455	607.440
50.0	617.238	583.324	587.092	582.570	577.295
52.5	585.585	553.931	559.207	552.424	546.395
55.0	552.424	523.786	529.061	520.017	524.539
57.5	517.003	492.886	497.408	498.915	505.698
60.0	481.581	461.233	465.001	480.074	489.118
62.5	446.913	429.579	433.348	462.740	472.537
65.0	408.477	396.419	410.738	445.406	455.957
67.5	370.795	363.258	389.636	428.826	440.884
70.0	331.605	330.098	370.795	412.999	424.304
72.5	290.908	294.676	352.707	395.665	405.463
75.0	250.211	263.777	333.866	375.317	382.100
77.5	208.761	240.414	312.764	347.432	349.693
80.0	167.310	219.312	285.633	304.474	298.445
82.5	125.859	198.209	241.921	229.109	206.500
85.0	85.162	169.571	146.961	84.409	56.524
87.5	47.480	88.177	58.785	45.973	36.175
90.0	24.117	55.770	48.987	38.436	30.146
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

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	337.75	N.A.	4.50
0-30	717.06	N.A.	9.50
0-40	1181.89	N.A.	15.70
0-60	2152.55	N.A.	28.50
0-80	2909.24	N.A.	38.60
0-90	3055.39	N.A.	40.50
10-90	2967.4	N.A.	39.30
20-40	844.14	N.A.	11.20
20-50	1341.17	N.A.	17.80
40-70	1388.76	N.A.	18.40
60-80	756.69	N.A.	10.00
70-80	338.59	N.A.	4.50
80-90	146.16	N.A.	1.90
90-110	458.19	N.A.	6.10
90-120	973.14	N.A.	12.90
90-130	1652.38	N.A.	21.90
90-150	3209.83	N.A.	42.50
90-180	4489.48	N.A.	59.50
110-180	4031.28	N.A.	53.40
0-180	7544.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

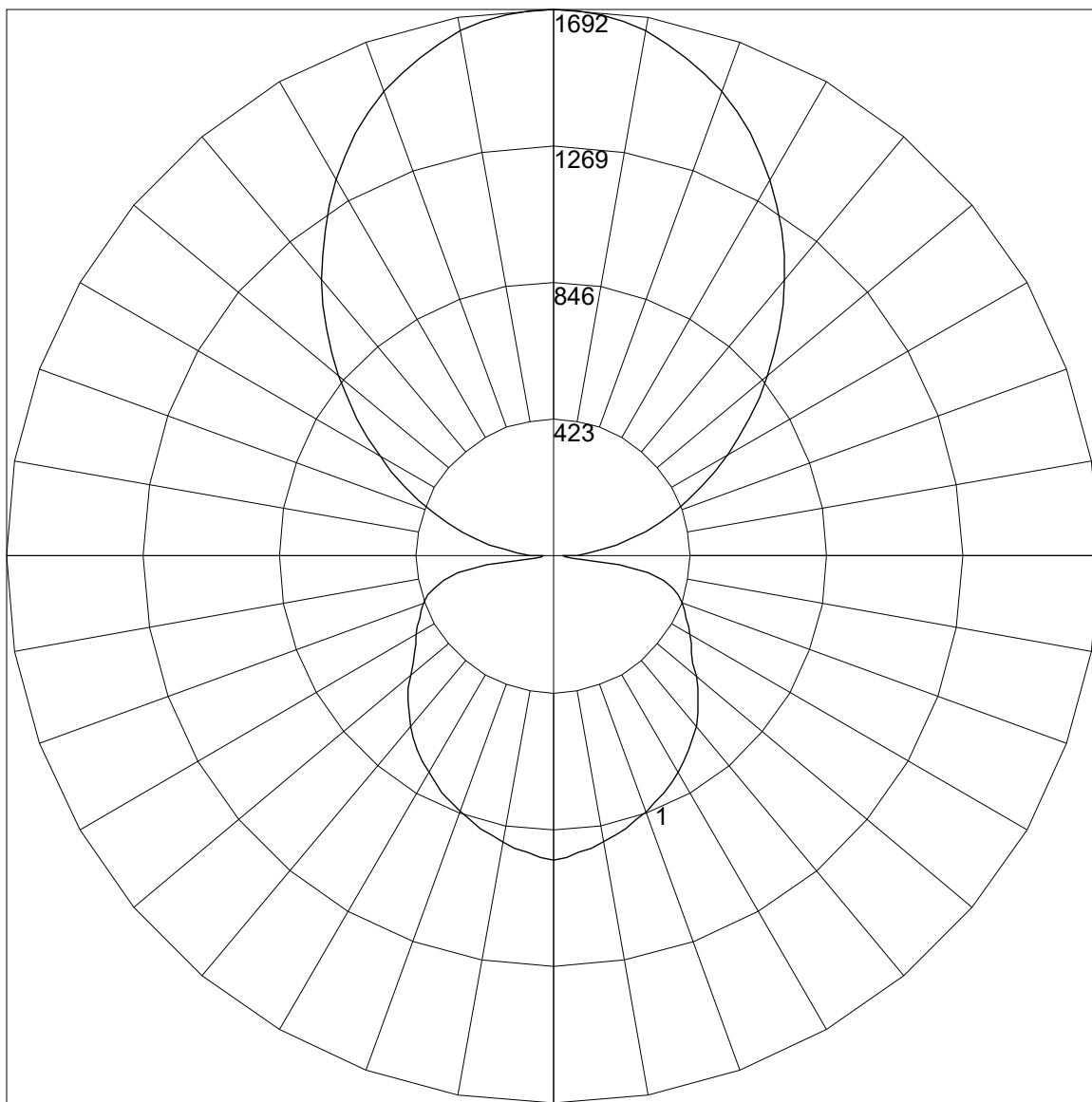
Zone	Lumens
0-10	88.00
10-20	249.75
20-30	379.31
30-40	464.83
40-50	497.02
50-60	473.64
60-70	418.10
70-80	338.59
80-90	146.16
90-100	136.21
100-110	321.98
110-120	514.95
120-130	679.24
130-140	777.99
140-150	779.45
150-160	668.62
160-170	451.44
170-180	159.58

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40
1	95	90	86	82	86	82	78	75	67	64	62	53	51	50	40	39	38	32
2	86	78	72	66	78	71	65	61	58	54	50	46	43	41	35	33	31	26
3	78	68	60	54	70	62	55	50	51	46	42	40	37	34	30	28	26	21
4	71	60	52	46	64	55	48	42	45	39	35	36	32	29	27	24	22	18
5	65	53	45	39	59	49	41	36	40	34	30	32	28	24	24	21	19	15
6	60	48	39	33	54	43	36	31	36	30	26	29	24	21	22	19	17	13
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15	12
8	51	39	31	25	46	35	29	24	29	24	20	24	19	17	18	15	13	11
9	47	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	9
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	15	13	11	9

POLAR GRAPH



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