

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-ASY-ITL89988-ITL90233.205.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.205 Family Correlation file

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/16/17

[ISSUEDATE]03/26/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.9 WATTS

[OTHER]see www.finelite.com for source files ITL89988 AND 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

[_ABSOLUTE LUMENS]6522

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6522
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
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5459	5150	5114
55	5475	5244	5199
65	5494	5525	6133
75	5496	7333	8392
85	5555	9585	3687

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	641.182	641.182	641.182	641.182	641.182	641.182	641.182	641.182	641.182
2.5	640.667	640.153	638.094	636.550	636.550	636.550	638.094	640.153	640.667
5.0	639.638	636.550	632.948	630.890	629.346	630.375	632.948	636.550	639.638
7.5	637.065	631.919	626.773	623.171	622.656	622.656	626.773	631.919	637.065
10.0	633.463	625.744	619.054	615.452	613.908	614.937	619.054	625.744	633.463
12.5	628.831	617.510	610.821	606.704	604.131	606.189	610.821	616.996	628.831
15.0	623.171	609.277	602.073	597.441	594.868	596.927	602.073	608.248	623.171
17.5	616.481	599.500	591.781	587.149	584.577	587.149	591.781	598.471	616.481
20.0	608.762	589.722	581.489	576.858	574.285	576.343	581.489	588.179	608.762
22.5	598.985	578.401	570.168	566.051	563.478	565.537	570.168	576.858	598.985
25.0	588.179	565.537	557.818	554.216	552.157	553.701	557.818	563.993	588.179
27.5	576.343	552.672	545.467	541.865	539.807	541.351	545.467	551.128	576.343
30.0	563.478	539.292	531.573	529.000	527.457	528.486	531.573	537.234	563.478
32.5	549.070	524.369	517.680	515.107	513.563	514.592	517.680	522.311	549.070
35.0	534.146	508.932	502.756	500.698	499.669	500.698	502.756	506.873	534.146
37.5	519.223	492.979	487.833	486.289	485.260	486.289	487.833	490.921	519.223
40.0	501.213	475.998	471.366	470.337	469.822	470.337	471.366	473.939	501.213
42.5	482.687	457.987	454.385	453.870	451.812	453.870	454.385	455.928	482.687
45.0	463.647	439.462	437.403	436.374	434.316	436.374	437.403	437.403	463.647
47.5	443.064	419.907	419.392	417.334	414.761	416.820	419.392	417.849	443.064
50.0	421.451	400.867	400.867	397.780	394.178	397.780	400.867	398.294	421.451
52.5	399.838	380.284	381.827	377.196	373.079	377.196	381.827	378.225	399.838
55.0	377.196	359.700	361.244	355.583	358.156	355.068	361.244	357.641	377.196
57.5	353.010	338.601	339.631	341.175	345.291	340.660	339.631	336.543	353.010
60.0	328.824	316.474	317.503	327.795	333.970	327.795	317.503	314.930	328.824
62.5	305.153	294.861	295.890	314.930	322.649	315.959	295.890	293.317	305.153
65.0	278.909	272.219	280.453	303.095	311.328	304.124	280.453	270.675	278.909
67.5	253.179	250.092	266.044	291.259	301.036	292.803	266.044	248.033	253.179
70.0	226.421	227.964	253.179	280.453	289.715	281.996	253.179	225.391	226.421
72.5	198.632	204.293	240.829	268.617	276.851	270.161	240.829	201.206	198.632
75.0	170.845	183.195	227.964	254.208	260.898	256.267	227.964	180.107	170.845
77.5	142.542	166.728	213.556	235.683	238.771	237.227	213.556	164.155	142.542
80.0	114.239	150.775	195.030	206.351	203.778	207.895	195.030	149.746	114.239
82.5	85.937	133.794	165.184	155.921	140.998	156.436	165.184	135.338	85.937
85.0	58.149	110.123	100.345	59.693	38.594	57.634	100.345	115.783	58.149
87.5	32.419	56.605	40.138	31.905	24.700	31.390	40.138	60.207	32.419
90.0	16.467	36.021	33.449	26.759	20.584	26.244	33.449	38.080	16.467
92.5	67.000	68.000	58.000	61.000	22.000	58.000	91.000	109.000	116.000
95.0	142.000	145.000	146.000	149.000	57.000	92.000	141.000	167.000	175.000
97.5	224.000	239.000	272.000	226.000	93.000	122.000	186.000	224.000	235.000
100.0	347.000	367.000	398.000	300.000	130.000	155.000	223.000	270.000	286.000
102.5	469.000	492.000	520.000	373.000	169.000	188.000	263.000	305.000	321.000
105.0	582.000	627.000	647.000	445.000	207.000	219.000	294.000	344.000	355.000
107.5	717.000	794.000	780.000	511.000	247.000	247.000	324.000	378.000	388.000
110.0	903.000	979.000	907.000	567.000	287.000	275.000	355.000	413.000	423.000
112.5	1129.000	1162.000	1032.000	616.000	328.000	302.000	386.000	447.000	459.000
115.0	1335.000	1341.000	1134.000	661.000	369.000	330.000	414.000	480.000	493.000
117.5	1528.000	1498.000	1206.000	700.000	410.000	359.000	440.000	513.000	527.000
120.0	1683.000	1615.000	1250.000	737.000	455.000	390.000	463.000	542.000	560.000
122.5	1795.000	1692.000	1275.000	775.000	501.000	420.000	485.000	571.000	592.000
125.0	1861.000	1728.000	1288.000	811.000	545.000	449.000	504.000	593.000	620.000
127.5	1884.000	1733.000	1296.000	846.000	590.000	479.000	522.000	611.000	645.000
130.0	1874.000	1718.000	1302.000	883.000	634.000	508.000	539.000	622.000	660.000
132.5	1843.000	1693.000	1309.000	921.000	679.000	537.000	557.000	630.000	665.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-B-835-ASY-ITL89988-ITL90233.205.IES****CANDELA TABULATION - (Cont.)**

135.0	1803.000	1664.000	1318.000	959.000	724.000	571.000	574.000	636.000	667.000
137.5	1762.000	1636.000	1329.000	999.000	770.000	608.000	592.000	642.000	667.000
140.0	1721.000	1610.000	1341.000	1039.000	817.000	648.000	609.000	647.000	667.000
142.5	1685.000	1591.000	1354.000	1079.000	863.000	690.000	626.000	652.000	667.000
145.0	1657.000	1575.000	1367.000	1118.000	909.000	731.000	644.000	659.000	668.000
147.5	1633.000	1563.000	1383.000	1156.000	955.000	773.000	666.000	669.000	673.000
150.0	1614.000	1554.000	1400.000	1192.000	1001.000	818.000	694.000	680.000	681.000
152.5	1597.000	1546.000	1417.000	1225.000	1043.000	866.000	734.000	694.000	690.000
155.0	1581.000	1541.000	1432.000	1254.000	1084.000	917.000	783.000	715.000	706.000
157.5	1572.000	1539.000	1443.000	1280.000	1123.000	969.000	836.000	751.000	732.000
160.0	1565.000	1537.000	1450.000	1302.000	1159.000	1019.000	890.000	807.000	780.000
162.5	1552.000	1530.000	1451.000	1319.000	1192.000	1068.000	946.000	870.000	844.000
165.0	1537.000	1515.000	1446.000	1332.000	1220.000	1113.000	1009.000	933.000	910.000
167.5	1512.000	1494.000	1433.000	1339.000	1244.000	1154.000	1069.000	1001.000	978.000
170.0	1480.000	1466.000	1416.000	1342.000	1265.000	1192.000	1126.000	1077.000	1059.000
172.5	1440.000	1431.000	1392.000	1339.000	1280.000	1225.000	1178.000	1144.000	1132.000
175.0	1401.000	1392.000	1366.000	1332.000	1293.000	1255.000	1225.000	1204.000	1196.000
177.5	1351.000	1347.000	1334.000	1318.000	1299.000	1280.000	1265.000	1254.000	1250.000
180.0	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-B-835-ASY-ITL89988-ITL90233.205.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	230.67	N.A.	3.50
0-30	489.79	N.A.	7.50
0-40	807.35	N.A.	12.40
0-60	1470.59	N.A.	22.50
0-80	1987.48	N.A.	30.50
0-90	2086.94	N.A.	32.00
10-90	2026.85	N.A.	31.10
20-40	576.68	N.A.	8.80
20-50	916.27	N.A.	14.00
40-70	948.81	N.A.	14.50
60-80	516.88	N.A.	7.90
70-80	231.32	N.A.	3.50
80-90	99.46	N.A.	1.50
90-110	581.46	N.A.	8.90
90-120	1273.77	N.A.	19.50
90-130	2070.06	N.A.	31.70
90-150	3454.72	N.A.	53.00
90-180	4434.98	N.A.	68.00
110-180	3853.51	N.A.	59.10
0-180	6521.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.09
10-20	170.58
20-30	259.12
30-40	317.56
40-50	339.59
50-60	323.66
60-70	285.57
70-80	231.32
80-90	99.46
90-100	149.72
100-110	431.74
110-120	692.31
120-130	796.29
130-140	743.40
140-150	641.26
150-160	512.67
160-170	344.80
170-180	122.79

IES INDOOR REPORT

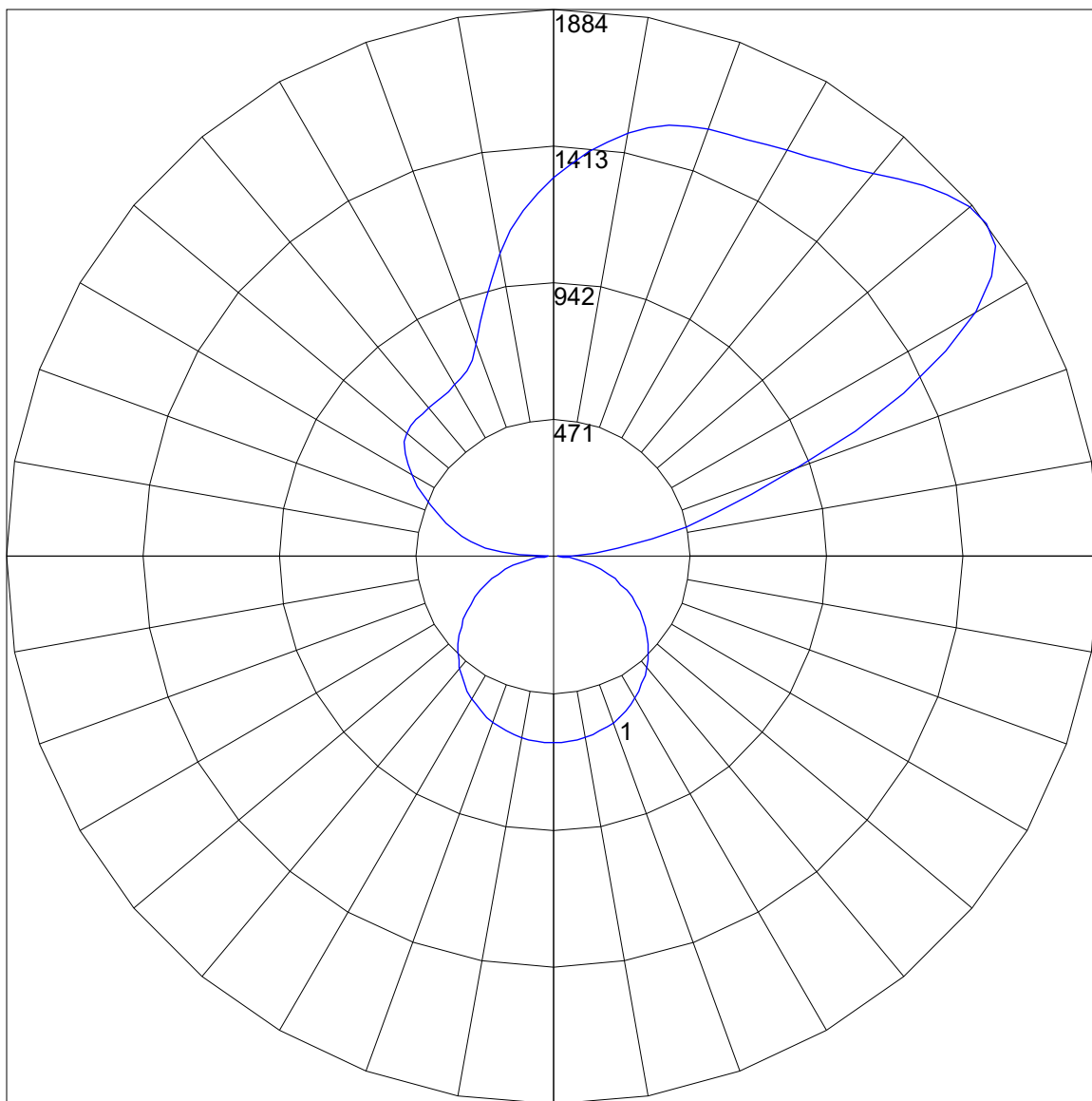
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-B-835-ASY-ITL89988-ITL90233.205.IES

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	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	93	89	84	81	83	80	76	73	63	61	59	48	46	45	34	33	32	25
2	84	77	70	65	75	69	64	59	55	51	48	41	39	37	29	28	26	21
3	77	67	60	54	68	60	54	49	48	43	40	36	33	31	26	24	22	17
4	70	59	51	45	62	53	46	41	42	37	33	32	29	26	23	20	19	14
5	64	52	44	38	57	47	40	35	38	32	28	29	25	22	20	18	16	12
6	59	47	39	33	53	42	35	30	34	28	25	26	22	19	18	16	14	11
7	54	42	34	29	48	38	31	26	30	25	21	23	20	17	17	14	12	9
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	8
9	47	35	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	7
10	43	32	24	20	39	29	22	18	23	18	15	18	14	12	13	11	9	7

POLAR GRAPH



Maximum Candela = 1884 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)