

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-V-835-OPN-ITL89462.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.015 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-V-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 48.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 51.1 WATTS

[_ABSOLUTE]LUMENS]5503

[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	5503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	48.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.42
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	10865	7045	6280
55	10738	6259	5410
65	10454	5405	5042
75	9836	5022	4544
85	7464	2345	634

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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	1032.000	1032.000	1032.000	1032.000	1032.000
2.5	1031.000	1030.000	1028.000	1027.000	1026.000
5.0	1028.000	1025.000	1020.000	1016.000	1016.000
7.5	1024.000	1018.000	1010.000	1005.000	1004.000
10.0	1018.000	1008.000	1000.000	994.000	991.000
12.5	1011.000	996.000	987.000	981.000	976.000
15.0	1002.000	982.000	974.000	967.000	962.000
17.5	991.000	967.000	959.000	952.000	948.000
20.0	978.000	951.000	943.000	938.000	932.000
22.5	964.000	933.000	925.000	920.000	915.000
25.0	947.000	913.000	906.000	902.000	898.000
27.5	928.000	893.000	886.000	883.000	879.000
30.0	907.000	870.000	865.000	863.000	860.000
32.5	885.000	847.000	842.000	841.000	839.000
35.0	861.000	822.000	819.000	820.000	818.000
37.5	833.000	796.000	794.000	796.000	794.000
40.0	806.000	769.000	770.000	771.000	769.000
42.5	778.000	740.000	744.000	745.000	743.000
45.0	747.000	711.000	717.000	717.000	714.000
47.5	716.000	680.000	690.000	688.000	683.000
50.0	682.000	649.000	660.000	656.000	651.000
52.5	647.000	617.000	628.000	622.000	616.000
55.0	610.000	583.000	595.000	585.000	589.000
57.5	573.000	550.000	561.000	561.000	569.000
60.0	533.000	516.000	524.000	538.000	548.000
62.5	493.000	480.000	489.000	517.000	528.000
65.0	451.000	444.000	462.000	497.000	508.000
67.5	409.000	408.000	438.000	476.000	488.000
70.0	366.000	371.000	415.000	455.000	465.000
72.5	322.000	333.000	393.000	431.000	439.000
75.0	277.000	298.000	368.000	402.000	407.000
77.5	231.000	271.000	341.000	364.000	366.000
80.0	186.000	246.000	306.000	308.000	300.000
82.5	140.000	220.000	249.000	213.000	191.000
85.0	92.000	181.000	138.000	68.000	48.000
87.5	43.000	88.000	50.000	26.000	13.000
90.0	0.000	53.000	39.000	21.000	8.000
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-V-835-OPN-ITL89462.015.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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	372.55	N.A.	6.80
0-30	792.74	N.A.	14.40
0-40	1309.11	N.A.	23.80
0-60	2394.3	N.A.	43.50
0-80	3231.02	N.A.	58.70
0-90	3374.29	N.A.	61.30
10-90	3277.45	N.A.	59.60
20-40	936.56	N.A.	17.00
20-50	1491.33	N.A.	27.10
40-70	1552.05	N.A.	28.20
60-80	836.72	N.A.	15.20
70-80	369.86	N.A.	6.70
80-90	143.27	N.A.	2.60
90-110	148.04	N.A.	2.70
90-120	376.96	N.A.	6.80
90-130	724.40	N.A.	13.20
90-150	1521.35	N.A.	27.60
90-180	2128.96	N.A.	38.70
110-180	1980.92	N.A.	36.00
0-180	5503.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.84
10-20	275.71
20-30	420.20
30-40	516.36
40-50	554.78
50-60	530.41
60-70	466.86
70-80	369.86
80-90	143.27
90-100	38.00
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

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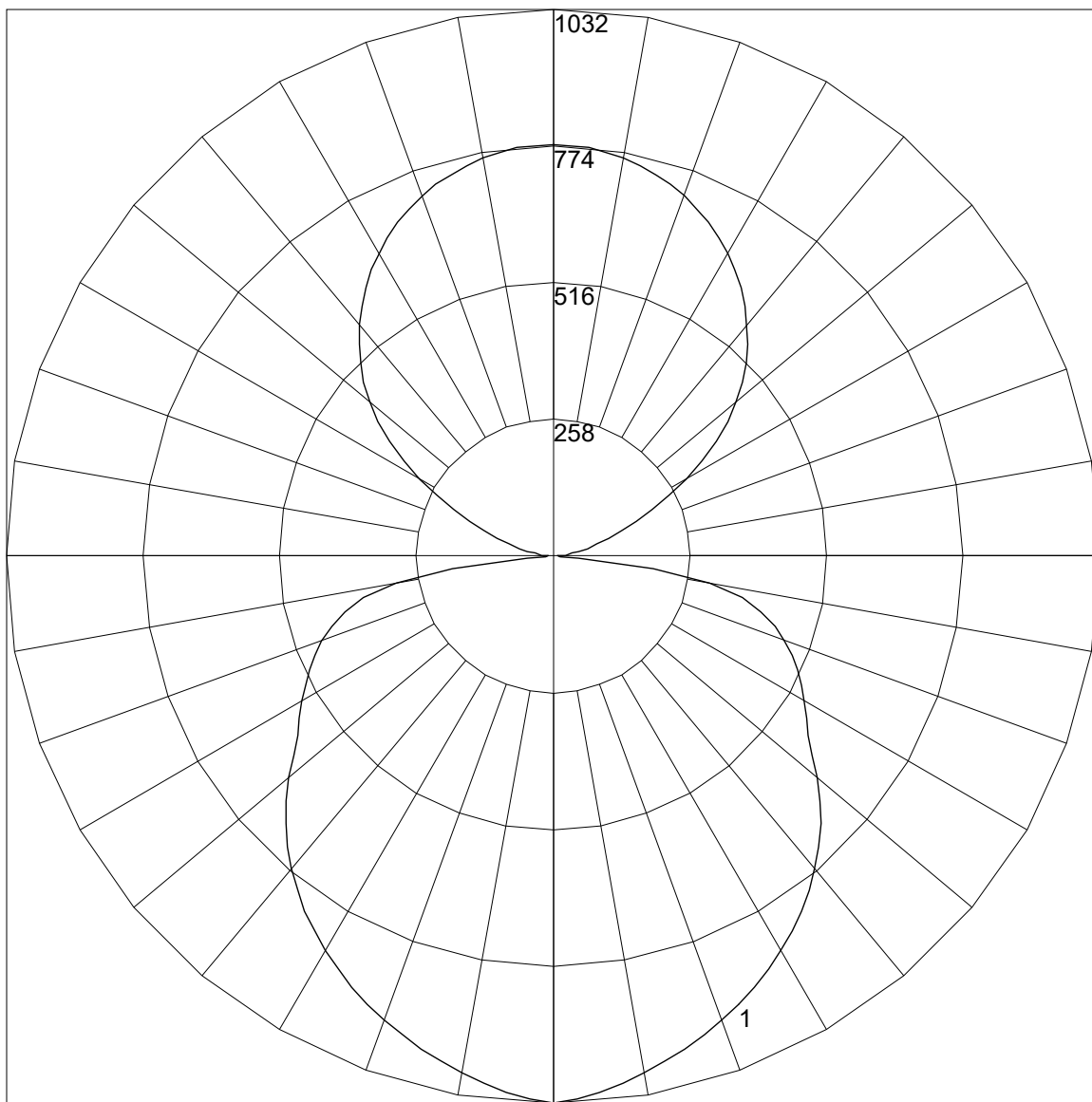
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	99	94	90	86	92	88	84	81	77	74	71	66	64	62	57	55	54	49
2	89	81	74	69	83	76	70	65	66	62	57	57	54	50	49	46	44	40
3	81	71	63	56	75	66	59	53	58	52	47	50	46	42	43	39	36	33
4	74	62	54	47	69	58	51	45	51	45	40	44	39	35	38	34	31	28
5	68	55	47	40	63	52	44	38	45	39	34	39	34	30	34	30	27	24
6	62	49	41	35	58	47	39	33	41	34	30	36	30	26	31	26	23	20
7	58	45	36	30	54	42	34	29	37	31	26	32	27	23	28	24	21	18
8	53	40	32	27	50	38	31	25	34	27	23	29	24	21	26	21	18	16
9	50	37	29	24	46	35	28	23	31	25	21	27	22	18	24	19	16	14
10	47	34	26	21	43	32	25	20	28	23	18	25	20	17	22	18	15	13

POLAR GRAPH



Maximum Candela = 1032 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)