

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 : 4D90 - HP-4C-ID-P-37IN11-16IN-B-H-835-ITL93249.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93249.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/20/20

[ISSUEDATE]09/28/20

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4C-ID-P-37in11-16in-B-H-835

[_INPUT_ELECTRICAL]120.0 VOLTS, 34.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 36.0 WATTS

[_ABSOLUTE]LUMENS]3752

[OTHER]see www.finelite.com for source file ITL93249. 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	3753
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	34.9
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)	0.33 ft
Luminous Width (90-270)	2.88 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7600	7807	8218
55	6730	6984	7470
65	5882	6116	6740
75	5003	5139	5842
85	4282	4201	4885

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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	899.117	899.117	899.117	899.117	899.117	899.117	899.117	899.117	899.117
2.5	898.339	898.339	899.117	898.339	897.562	897.562	897.562	896.784	896.784
5.0	894.450	894.450	894.450	894.450	893.673	892.895	892.117	891.339	891.339
7.5	888.228	887.450	887.450	887.450	885.895	885.117	883.562	882.784	881.228
10.0	876.562	877.339	877.339	877.339	875.784	874.228	872.673	871.117	870.339
12.5	864.117	863.339	863.339	864.117	863.339	860.228	858.672	855.561	854.784
15.0	846.228	847.783	846.228	848.561	848.561	844.672	841.561	837.672	834.561
17.5	824.450	826.783	826.783	829.117	829.117	825.228	819.783	815.894	812.783
20.0	802.672	805.005	805.783	807.339	808.894	803.450	798.005	791.005	789.450
22.5	777.783	779.339	780.894	784.783	786.339	779.339	773.116	765.338	763.783
25.0	751.338	752.894	754.449	759.894	759.894	754.449	747.449	737.338	733.449
27.5	721.783	722.560	726.449	731.894	732.672	726.449	717.116	709.338	704.671
30.0	692.227	693.782	698.449	702.338	704.671	696.894	688.338	677.449	675.893
32.5	658.782	663.449	666.560	673.560	675.116	665.782	658.782	647.115	643.227
35.0	626.893	630.004	634.671	641.671	641.671	635.449	626.115	616.004	611.337
37.5	595.004	598.115	602.782	609.004	610.560	605.115	594.226	584.115	580.226
40.0	563.115	564.670	569.337	577.893	579.448	572.448	563.115	549.893	546.004
42.5	527.337	530.448	536.670	544.448	546.004	541.337	530.448	518.781	514.115
45.0	493.892	497.003	502.448	509.448	512.559	507.892	495.448	485.337	481.448
47.5	461.225	463.559	469.003	476.781	479.114	473.670	462.003	451.892	449.559
50.0	427.003	431.670	436.336	444.892	446.447	441.003	429.336	420.003	416.114
52.5	395.114	397.447	402.892	411.447	413.003	408.336	398.225	387.336	387.336
55.0	361.669	365.558	370.225	376.447	378.780	376.447	365.558	357.002	353.891
57.5	331.336	334.447	336.780	344.558	346.891	342.224	332.113	325.891	323.558
60.0	301.002	301.780	305.669	312.669	315.780	311.891	302.558	294.780	291.669
62.5	271.446	272.224	274.557	281.557	283.113	280.002	271.446	266.002	262.891
65.0	240.335	241.891	245.002	248.891	252.780	248.891	242.668	236.446	234.891
67.5	213.113	214.668	214.668	219.335	221.668	220.113	211.557	208.446	207.668
70.0	185.890	186.668	185.112	190.557	191.335	189.779	184.335	182.001	179.668
72.5	160.223	159.446	158.668	161.779	162.557	162.557	157.890	155.557	154.001
75.0	133.779	134.556	133.001	133.779	135.334	135.334	133.001	129.890	130.667
77.5	111.223	111.223	107.334	108.890	107.334	109.667	107.334	107.334	108.112
80.0	89.445	89.445	84.778	85.556	82.445	86.334	84.778	86.334	85.556
82.5	70.001	68.445	64.556	63.778	60.667	63.778	64.556	66.112	66.889
85.0	50.556	49.778	45.889	42.778	39.667	43.556	45.889	47.445	49.000
87.5	35.000	33.445	27.222	25.667	21.000	24.111	28.000	31.889	33.445
90.0	24.111	22.556	17.111	14.000	9.333	11.667	15.556	21.000	22.556
92.5	22.128	21.099	18.526	15.438	13.380	13.895	17.497	20.070	21.614
95.0	34.994	33.965	30.877	27.789	26.760	26.245	29.848	32.421	33.965
97.5	49.403	48.888	45.286	41.684	40.654	40.654	43.227	46.315	47.344
100.0	66.385	64.841	61.239	58.666	56.093	56.607	58.151	61.239	62.783
102.5	82.853	81.309	78.736	75.648	73.075	73.590	75.648	77.192	78.736
105.0	100.350	99.320	96.233	94.174	91.601	91.601	92.630	96.233	96.233
107.5	118.876	118.361	115.273	112.700	110.642	112.186	111.156	113.730	114.244
110.0	137.916	138.431	134.314	133.799	131.741	132.256	129.683	132.256	134.314
112.5	159.015	157.986	155.413	155.928	152.840	152.326	150.782	153.355	153.869
115.0	179.085	178.056	176.512	175.998	173.939	172.395	172.910	173.939	173.425
117.5	199.670	198.641	198.126	196.582	196.068	193.494	193.494	194.524	194.009
120.0	220.254	221.798	220.254	218.710	217.681	216.652	214.594	215.623	213.564
122.5	243.412	244.956	242.897	240.324	240.324	238.266	236.722	237.237	234.663
125.0	265.540	267.599	266.570	262.453	261.938	260.394	259.365	257.307	255.763
127.5	286.639	290.756	288.698	287.154	284.066	280.979	280.464	277.376	276.862
130.0	309.282	313.914	310.826	310.312	308.253	303.622	301.563	300.019	298.476
132.5	333.469	336.557	333.469	332.440	330.382	325.750	322.662	321.633	319.575

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4D90 - HP-4C-ID-P-37IN11-16IN-B-H-835-ITL93249.011.IES****CANDELA TABULATION - (Cont.)**

135.0	355.598	358.171	356.627	354.568	353.539	348.908	345.305	344.276	343.247
137.5	377.726	379.784	379.784	376.697	375.153	370.521	367.948	365.890	364.861
140.0	401.398	401.398	400.884	399.340	397.281	393.164	389.047	388.018	385.960
142.5	421.983	422.497	421.983	420.439	420.439	414.778	411.176	409.117	407.059
145.0	442.053	442.567	442.567	440.509	441.538	435.363	432.789	430.216	429.187
147.5	463.152	462.637	461.608	459.549	461.093	455.433	452.345	450.801	449.257
150.0	481.163	481.163	480.649	479.105	479.619	474.473	472.415	470.871	468.298
152.5	498.145	499.175	497.631	496.601	497.631	493.514	490.426	488.882	486.309
155.0	515.128	516.157	514.098	513.069	514.613	510.496	507.408	506.379	504.835
157.5	530.051	531.081	529.022	527.478	529.537	525.420	524.391	522.847	520.788
160.0	542.402	543.431	541.888	541.888	542.402	539.314	538.285	537.256	535.197
162.5	553.724	555.268	554.753	553.209	554.753	552.694	551.665	550.636	549.607
165.0	564.530	565.560	565.045	564.016	565.560	562.987	562.472	561.957	560.928
167.5	574.308	573.793	573.793	573.279	574.308	573.279	572.764	572.250	571.735
170.0	581.513	581.513	580.998	582.027	581.513	580.484	580.484	580.484	580.484
172.5	587.688	587.173	587.173	587.688	587.173	587.173	587.173	586.659	586.659
175.0	591.805	591.290	591.290	591.290	591.290	591.290	591.290	591.290	591.805
177.5	593.863	593.863	593.863	593.863	593.863	593.863	593.863	593.863	593.863
180.0	594.893	594.893	594.893	594.893	594.893	594.893	594.893	594.893	594.893

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Zone	Lumens	%Lamp	%Fixt
0-20	322.28	N.A.	8.60
0-30	667.80	N.A.	17.80
0-40	1062.33	N.A.	28.30
0-60	1777.97	N.A.	47.40
0-80	2162.16	N.A.	57.60
0-90	2213.95	N.A.	59.00
10-90	2129.27	N.A.	56.70
20-40	740.04	N.A.	19.70
20-50	1125.84	N.A.	30.00
40-70	958.03	N.A.	25.50
60-80	384.19	N.A.	10.20
70-80	141.81	N.A.	3.80
80-90	51.78	N.A.	1.40
90-110	136.58	N.A.	3.60
90-120	310.01	N.A.	8.30
90-130	544.33	N.A.	14.50
90-150	1088.81	N.A.	29.00
90-180	1539.22	N.A.	41.00
110-180	1402.65	N.A.	37.40
0-180	3753.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.68
10-20	237.60
20-30	345.51
30-40	394.53
40-50	385.80
50-60	329.84
60-70	242.38
70-80	141.81
80-90	51.78
90-100	35.64
100-110	100.93
110-120	173.43
120-130	234.31
130-140	270.96
140-150	273.52
150-160	235.36
160-170	158.93
170-180	56.12

IES INDOOR REPORT

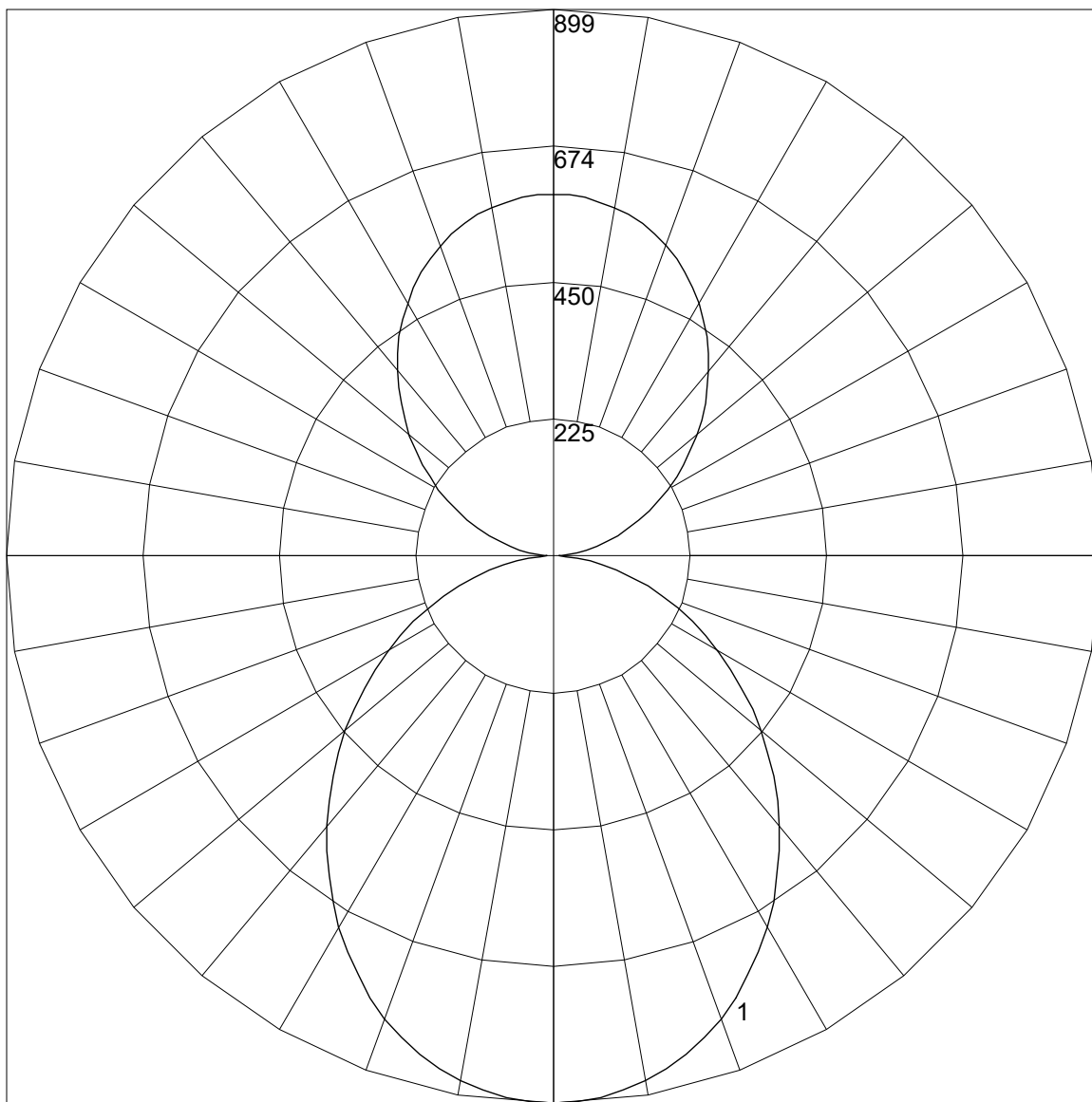
PHOTOMETRIC FILENAME : 4D90 - HP-4C-ID-P-37IN11-16IN-B-H-835-ITL93249.011.IES

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	95	91	88	93	89	86	83	77	75	72	67	65	63	57	55	54	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	48	53	48	43	46	42	39	40	37	34	30
5	70	58	50	44	65	55	47	42	48	42	38	42	37	33	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	32	27	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	24	20	17	15

POLAR GRAPH



Maximum Candela = 899.117 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)