

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-2-C-D-P-37IN-11-16IN-S-835-ITL94330.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94330.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]12/28/20

[ISSUEDATE]02/18/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]4D90 HP-2-P-D-37IN-11/16IN-S-835

[_INPUT_ELECTRICAL]120.0 VOLTS, 10.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 11.5 WATTS

[_ABSOLUTE]LUMENS]955

[OTHER]see www.finelite.com for source file ITL94330. 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	955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	10.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.71 ft
Luminous Width (90-270)	2.71 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1633	1691	1775
55	1473	1537	1632
65	1315	1374	1471
75	1109	1171	1250
85	836	862	915

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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	393.380	393.380	393.380	393.380	393.380	393.380	393.380	393.380	393.380
2.5	391.742	392.152	392.970	392.561	392.970	392.970	392.970	392.970	392.561
5.0	389.286	389.286	390.514	390.105	390.514	390.924	390.924	390.924	390.924
7.5	384.783	385.193	386.011	386.421	387.239	387.649	387.649	387.649	387.649
10.0	378.643	379.462	380.690	381.509	382.737	383.146	382.737	383.146	382.327
12.5	371.684	372.094	374.140	375.368	377.006	378.234	377.825	377.415	376.596
15.0	361.860	363.907	365.544	367.591	370.047	370.456	370.047	369.228	368.410
17.5	352.445	354.492	356.129	358.585	363.088	361.860	361.041	359.813	359.404
20.0	341.393	343.849	346.714	349.170	352.855	352.855	351.626	349.580	348.352
22.5	330.750	331.978	335.662	338.527	343.030	342.621	340.574	338.118	336.890
25.0	318.060	320.107	323.382	327.066	331.978	331.569	329.522	325.428	324.610
27.5	305.371	307.008	311.101	316.014	320.107	319.288	317.242	313.148	312.329
30.0	291.862	293.909	298.412	303.733	307.417	307.008	303.324	300.049	298.002
32.5	278.354	279.991	284.903	290.225	294.728	294.728	290.634	286.541	284.494
35.0	264.436	266.483	271.395	276.717	281.629	280.810	277.126	271.804	270.986
37.5	250.519	252.565	257.477	263.618	268.120	266.892	263.618	257.887	255.431
40.0	236.601	238.238	243.560	249.700	253.793	253.384	248.472	243.969	241.513
42.5	222.683	223.911	229.642	235.782	239.876	239.466	234.554	229.642	227.186
45.0	207.537	209.993	214.906	221.455	225.549	224.321	220.227	214.087	212.040
47.5	194.029	195.257	200.579	207.128	210.812	209.993	205.900	200.169	197.713
50.0	179.293	181.339	187.070	193.210	196.894	196.076	191.164	185.842	183.795
52.5	166.194	167.831	173.153	178.474	182.567	180.930	176.837	171.924	169.878
55.0	151.867	154.323	158.416	164.966	168.240	167.422	162.919	157.597	155.960
57.5	139.177	140.405	144.908	151.048	154.323	152.685	148.592	143.680	141.633
60.0	125.259	126.897	130.990	136.721	139.177	138.768	135.084	130.581	128.534
62.5	112.979	114.207	117.891	122.394	125.259	124.850	121.166	117.482	115.435
65.0	99.880	101.108	104.383	108.886	111.751	110.932	107.657	103.564	102.745
67.5	87.600	88.418	91.693	95.786	97.424	97.424	94.558	90.874	89.646
70.0	75.319	76.138	78.594	82.278	83.916	83.916	81.869	79.003	77.366
72.5	63.858	64.267	66.723	69.179	70.817	70.817	69.179	66.723	65.904
75.0	51.577	52.805	54.443	56.899	58.127	58.536	57.308	54.852	54.443
77.5	40.934	41.753	43.390	45.437	46.256	46.256	45.437	43.800	42.981
80.0	31.110	31.110	31.929	33.976	34.385	34.794	34.385	33.157	32.748
82.5	21.695	21.695	22.105	23.333	23.742	24.151	24.151	23.742	23.333
85.0	13.099	13.099	13.508	13.918	14.327	14.736	14.736	14.736	14.736
87.5	5.321	5.321	5.731	5.321	5.731	6.550	6.550	6.550	6.550
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4D90 - HP-2-C-D-P-37IN-11-16IN-S-835-ITL94330.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	140.53	N.A.	14.70
0-30	290.71	N.A.	30.40
0-40	462.19	N.A.	48.40
0-60	774.14	N.A.	81.10
0-80	938.66	N.A.	98.30
0-90	954.94	N.A.	100.00
10-90	917.95	N.A.	96.10
20-40	321.67	N.A.	33.70
20-50	489.63	N.A.	51.30
40-70	417.25	N.A.	43.70
60-80	164.52	N.A.	17.20
70-80	59.22	N.A.	6.20
80-90	16.29	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	954.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.99
10-20	103.53
20-30	150.18
30-40	171.48
40-50	167.97
50-60	143.98
60-70	105.30
70-80	59.22
80-90	16.29
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

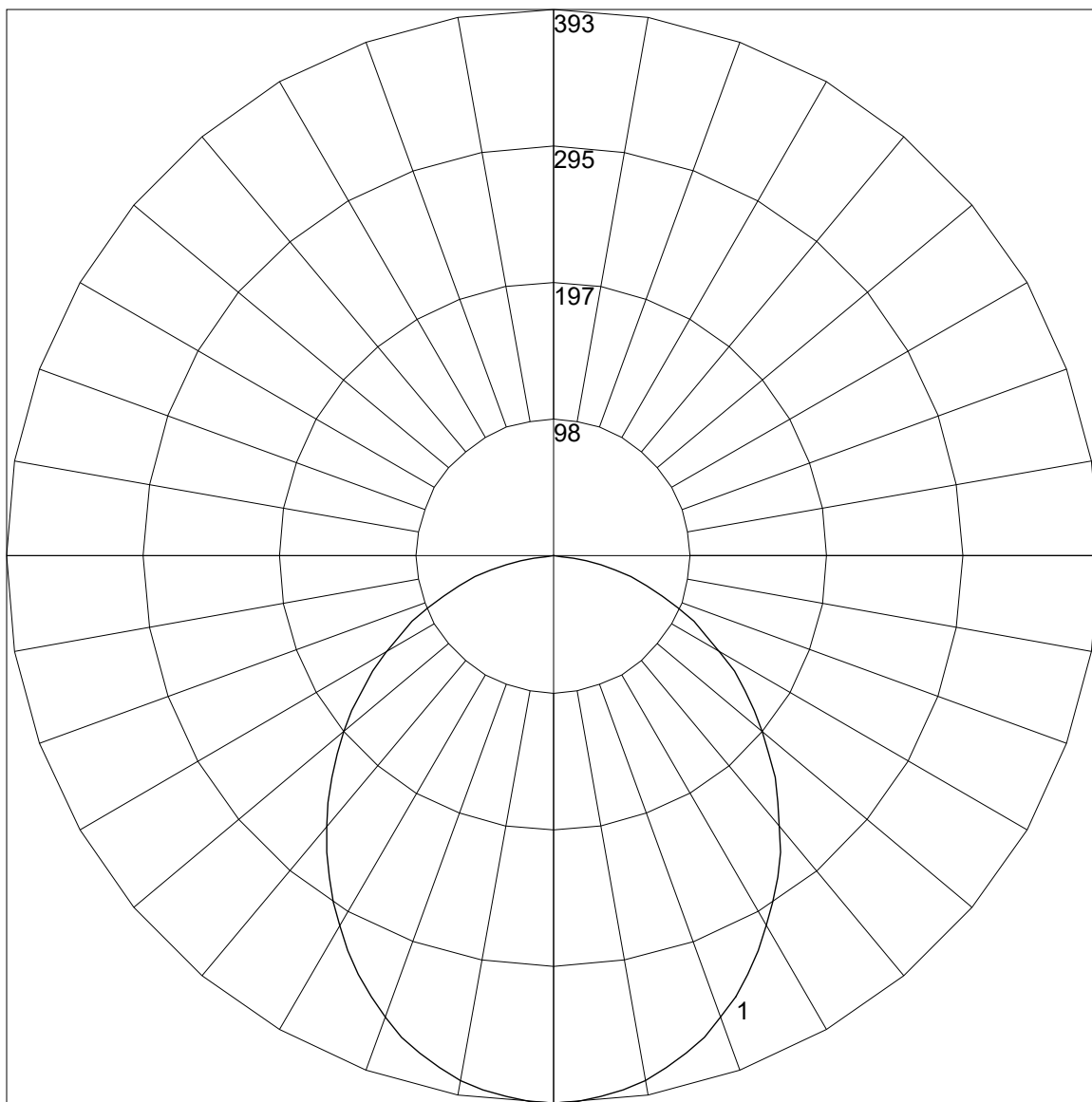
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 393.38 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)