

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 : HPO-ID-4FT-H-V-835-WSO-F-ITL92549.307.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92549.307 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/20/19

[ISSUEDATE]09/09/20

[MANUFAC]FINELITE, INC.

[LUMCAT]HPO-ID-4ft-H-V-835-WSO-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 61.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 61.3 WATTS

[_ABSOLUTE]LUMENS]7290

[OTHER]see www.finelite.com for source files ITL92549. 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	7289
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	61
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17712	17712	17577
55	17123	17123	16957
65	16296	16296	16232
75	15010	15220	15273
85	13248	14027	14183

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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	1375.000	1375.000	1375.000	1375.000	1375.000
2.5	1372.000	1373.000	1373.000	1373.000	1374.000
5.0	1367.000	1368.000	1368.000	1368.000	1369.000
7.5	1360.000	1361.000	1362.000	1362.000	1362.000
10.0	1350.000	1349.000	1351.000	1351.000	1349.000
12.5	1339.000	1334.000	1339.000	1340.000	1337.000
15.0	1322.000	1316.000	1322.000	1323.000	1320.000
17.5	1304.000	1295.000	1303.000	1304.000	1299.000
20.0	1283.000	1271.000	1280.000	1281.000	1277.000
22.5	1260.000	1245.000	1255.000	1256.000	1252.000
25.0	1230.000	1218.000	1227.000	1228.000	1225.000
27.5	1199.000	1189.000	1197.000	1199.000	1195.000
30.0	1167.000	1155.000	1166.000	1164.000	1162.000
32.5	1131.000	1120.000	1130.000	1129.000	1126.000
35.0	1094.000	1084.000	1092.000	1091.000	1087.000
37.5	1053.000	1044.000	1053.000	1051.000	1048.000
40.0	1010.000	1002.000	1012.000	1009.000	1007.000
42.5	967.000	960.000	968.000	965.000	960.000
45.0	922.000	915.000	922.000	918.000	915.000
47.5	873.000	868.000	874.000	870.000	869.000
50.0	825.000	818.000	826.000	821.000	819.000
52.5	774.000	769.000	774.000	771.000	768.000
55.0	723.000	718.000	723.000	719.000	716.000
57.5	670.000	666.000	669.000	667.000	665.000
60.0	616.000	612.000	616.000	613.000	613.000
62.5	560.000	557.000	561.000	558.000	560.000
65.0	507.000	504.000	507.000	505.000	505.000
67.5	450.000	448.000	452.000	450.000	453.000
70.0	396.000	395.000	397.000	397.000	397.000
72.5	339.000	340.000	343.000	344.000	345.000
75.0	286.000	286.000	290.000	291.000	291.000
77.5	233.000	235.000	237.000	240.000	240.000
80.0	183.000	184.000	187.000	188.000	190.000
82.5	134.000	135.000	138.000	140.000	140.000
85.0	85.000	86.000	90.000	92.000	91.000
87.5	39.000	40.000	43.000	45.000	46.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	10.890	30.335	65.338	33.447	28.780
95.0	28.780	64.560	166.456	77.005	60.671
97.5	49.003	96.451	308.021	148.566	108.896
100.0	69.227	125.231	462.032	258.240	177.346
102.5	90.229	147.010	578.707	441.809	292.465
105.0	112.786	169.567	630.822	717.939	506.368
107.5	134.565	191.347	630.044	1039.183	843.170
110.0	155.566	213.126	612.154	1232.086	1169.081
112.5	178.124	236.461	598.930	1291.201	1347.983
115.0	201.458	259.796	593.486	1284.978	1415.654
117.5	225.571	284.686	595.819	1249.976	1424.210
120.0	245.795	305.688	598.153	1202.528	1400.875
122.5	266.018	324.356	601.264	1155.080	1358.872
125.0	283.131	340.690	604.375	1106.855	1307.535
127.5	298.687	355.469	605.931	1059.407	1250.754
130.0	312.688	367.914	606.709	1015.848	1194.750
132.5	325.911	379.582	605.931	972.290	1138.746

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CANDELA TABULATION - (Cont.)

135.0	339.135	390.472	602.820	931.065	1081.186
137.5	352.358	399.806	597.375	890.617	1025.960
140.0	365.581	410.695	590.374	847.837	968.401
142.5	378.026	420.029	581.040	804.278	909.285
145.0	391.249	429.363	571.706	763.053	853.281
147.5	403.695	437.142	562.372	724.161	800.389
150.0	414.584	444.920	553.038	686.826	749.052
152.5	426.252	451.920	544.482	653.379	702.382
155.0	436.364	458.143	535.926	623.043	661.935
157.5	446.475	463.588	528.148	595.819	626.155
160.0	455.809	469.810	521.147	573.262	595.819
162.5	464.366	475.255	514.147	553.816	570.151
165.0	470.588	479.144	507.924	536.704	546.816
167.5	476.811	483.034	502.479	521.925	528.926
170.0	481.478	486.145	497.812	511.035	514.925
172.5	485.367	488.478	494.701	501.702	504.813
175.0	487.701	489.256	492.367	494.701	496.257
177.5	490.034	490.812	491.590	492.367	491.590
180.0	490.034	490.034	490.034	490.034	490.034

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	502.70	N.A.	6.90
0-30	1067.43	N.A.	14.60
0-40	1748.87	N.A.	24.00
0-60	3100.42	N.A.	42.50
0-80	3906.21	N.A.	53.60
0-90	4004.79	N.A.	54.90
10-90	3874.73	N.A.	53.20
20-40	1246.16	N.A.	17.10
20-50	1954.37	N.A.	26.80
40-70	1851.46	N.A.	25.40
60-80	805.78	N.A.	11.10
70-80	305.88	N.A.	4.20
80-90	98.58	N.A.	1.40
90-110	596.23	N.A.	8.20
90-120	1316.62	N.A.	18.10
90-130	1954.74	N.A.	26.80
90-150	2840.91	N.A.	39.00
90-180	3284.53	N.A.	45.10
110-180	2688.31	N.A.	36.90
0-180	7289.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

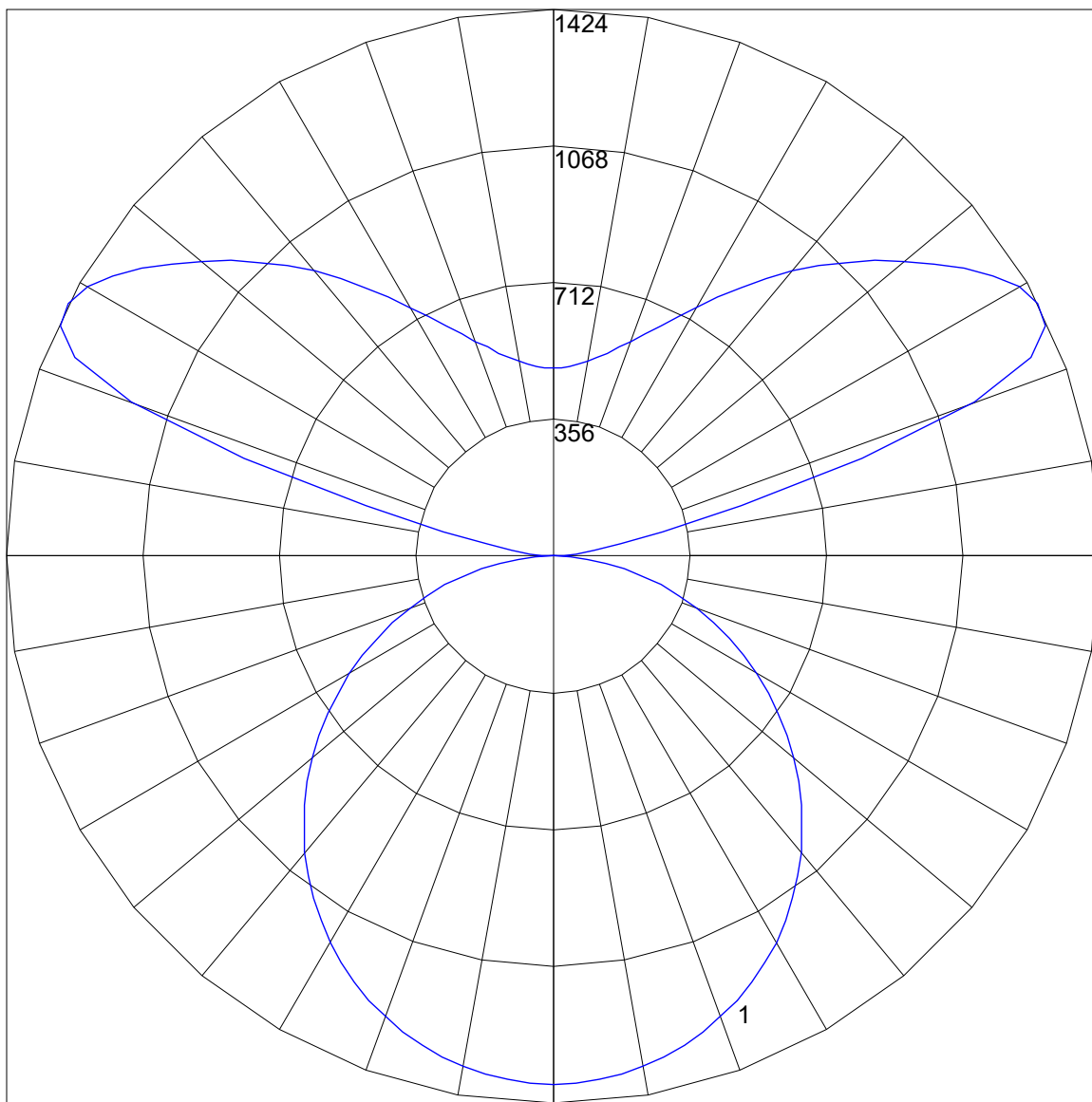
Zone	Lumens
0-10	130.06
10-20	372.64
20-30	564.73
30-40	681.43
40-50	708.21
50-60	643.35
60-70	499.90
70-80	305.88
80-90	98.58
90-100	110.02
100-110	486.21
110-120	720.40
120-130	638.11
130-140	510.36
140-150	375.81
150-160	251.78
160-170	144.65
170-180	47.19

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	94	90	86	91	87	84	81	75	72	70	64	62	60	53	52	51	46
2	90	82	75	70	83	76	71	66	65	61	58	55	52	50	46	44	42	38
3	81	72	64	58	75	67	60	55	57	52	48	49	45	42	41	38	36	32
4	74	63	55	49	69	59	52	46	51	45	41	43	39	36	36	33	30	27
5	68	56	48	42	63	53	45	40	45	40	35	39	34	31	33	29	26	23
6	63	50	42	36	58	47	40	34	41	35	30	35	30	27	30	26	23	20
7	58	46	37	32	54	43	35	30	37	31	27	32	27	24	27	23	20	18
8	54	41	33	28	50	39	32	27	34	28	24	29	24	21	25	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	27	22	19	23	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	25	20	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 1424.21 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)