

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-V-B-835-WSO-F-ITL92549.305.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92549.305 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]11/20/19
[ISSUEDATE]09/09/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HPO-ID-4ft-V-B-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 51.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 52.6 WATTS
[ABSOLUTE LUMENS]6284
[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	6283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	51.7
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)	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	9114	9114	9045
55	8811	8811	8726
65	8386	8386	8353
75	7724	7832	7859
85	6817	7218	7298

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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	707.554	707.554	707.554	707.554	707.554
2.5	706.010	706.524	706.524	706.524	707.039
5.0	703.437	703.951	703.951	703.951	704.466
7.5	699.835	700.349	700.864	700.864	700.864
10.0	694.689	694.174	695.203	695.203	694.174
12.5	689.028	686.456	689.028	689.543	687.999
15.0	680.281	677.193	680.281	680.795	679.251
17.5	671.018	666.387	670.503	671.018	668.445
20.0	660.212	654.037	658.668	659.183	657.124
22.5	648.376	640.657	645.803	646.318	644.260
25.0	632.939	626.764	631.395	631.910	630.366
27.5	616.987	611.841	615.958	616.987	614.928
30.0	600.520	594.345	600.005	598.976	597.947
32.5	581.995	576.334	581.480	580.966	579.422
35.0	562.955	557.809	561.926	561.411	559.353
37.5	541.857	537.226	541.857	540.828	539.284
40.0	519.730	515.614	520.759	519.216	518.187
42.5	497.603	494.001	498.118	496.574	494.001
45.0	474.447	470.845	474.447	472.388	470.845
47.5	449.232	446.659	449.747	447.688	447.174
50.0	424.532	420.930	425.047	422.474	421.445
52.5	398.288	395.715	398.288	396.745	395.201
55.0	372.044	369.472	372.044	369.986	368.442
57.5	344.772	342.713	344.257	343.228	342.199
60.0	316.984	314.926	316.984	315.440	315.440
62.5	288.167	286.624	288.682	287.138	288.167
65.0	260.894	259.350	260.894	259.865	259.865
67.5	231.563	230.534	232.592	231.563	233.107
70.0	203.775	203.261	204.290	204.290	204.290
72.5	174.444	174.959	176.502	177.017	177.532
75.0	147.171	147.171	149.230	149.744	149.744
77.5	119.898	120.927	121.956	123.500	123.500
80.0	94.169	94.684	96.227	96.742	97.771
82.5	68.954	69.469	71.013	72.042	72.042
85.0	43.740	44.254	46.313	47.342	46.827
87.5	20.069	20.583	22.127	23.156	23.671
90.0	0.000	0.000	0.000	0.000	0.000
92.5	14.000	39.000	84.000	43.000	37.000
95.0	37.000	83.000	214.000	99.000	78.000
97.5	63.000	124.000	396.000	191.000	140.000
100.0	89.000	161.000	594.000	332.000	228.000
102.5	116.000	189.000	744.000	568.000	376.000
105.0	145.000	218.000	811.000	923.000	651.000
107.5	173.000	246.000	810.000	1336.000	1084.000
110.0	200.000	274.000	787.000	1584.000	1503.000
112.5	229.000	304.000	770.000	1660.000	1733.000
115.0	259.000	334.000	763.000	1652.000	1820.000
117.5	290.000	366.000	766.000	1607.000	1831.000
120.0	316.000	393.000	769.000	1546.000	1801.000
122.5	342.000	417.000	773.000	1485.000	1747.000
125.0	364.000	438.000	777.000	1423.000	1681.000
127.5	384.000	457.000	779.000	1362.000	1608.000
130.0	402.000	473.000	780.000	1306.000	1536.000
132.5	419.000	488.000	779.000	1250.000	1464.000

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CANDELA TABULATION - (Cont.)

135.0	436.000	502.000	775.000	1197.000	1390.000
137.5	453.000	514.000	768.000	1145.000	1319.000
140.0	470.000	528.000	759.000	1090.000	1245.000
142.5	486.000	540.000	747.000	1034.000	1169.000
145.0	503.000	552.000	735.000	981.000	1097.000
147.5	519.000	562.000	723.000	931.000	1029.000
150.0	533.000	572.000	711.000	883.000	963.000
152.5	548.000	581.000	700.000	840.000	903.000
155.0	561.000	589.000	689.000	801.000	851.000
157.5	574.000	596.000	679.000	766.000	805.000
160.0	586.000	604.000	670.000	737.000	766.000
162.5	597.000	611.000	661.000	712.000	733.000
165.0	605.000	616.000	653.000	690.000	703.000
167.5	613.000	621.000	646.000	671.000	680.000
170.0	619.000	625.000	640.000	657.000	662.000
172.5	624.000	628.000	636.000	645.000	649.000
175.0	627.000	629.000	633.000	636.000	638.000
177.5	630.000	631.000	632.000	633.000	632.000
180.0	630.000	630.000	630.000	630.000	630.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	258.68	N.A.	4.10
0-30	549.28	N.A.	8.70
0-40	899.94	N.A.	14.30
0-60	1595.43	N.A.	25.40
0-80	2010.07	N.A.	32.00
0-90	2060.8	N.A.	32.80
10-90	1993.87	N.A.	31.70
20-40	641.26	N.A.	10.20
20-50	1005.69	N.A.	16.00
40-70	952.73	N.A.	15.20
60-80	414.64	N.A.	6.60
70-80	157.40	N.A.	2.50
80-90	50.73	N.A.	0.80
90-110	766.52	N.A.	12.20
90-120	1692.68	N.A.	26.90
90-130	2513.06	N.A.	40.00
90-150	3652.34	N.A.	58.10
90-180	4222.68	N.A.	67.20
110-180	3456.16	N.A.	55.00
0-180	6283.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

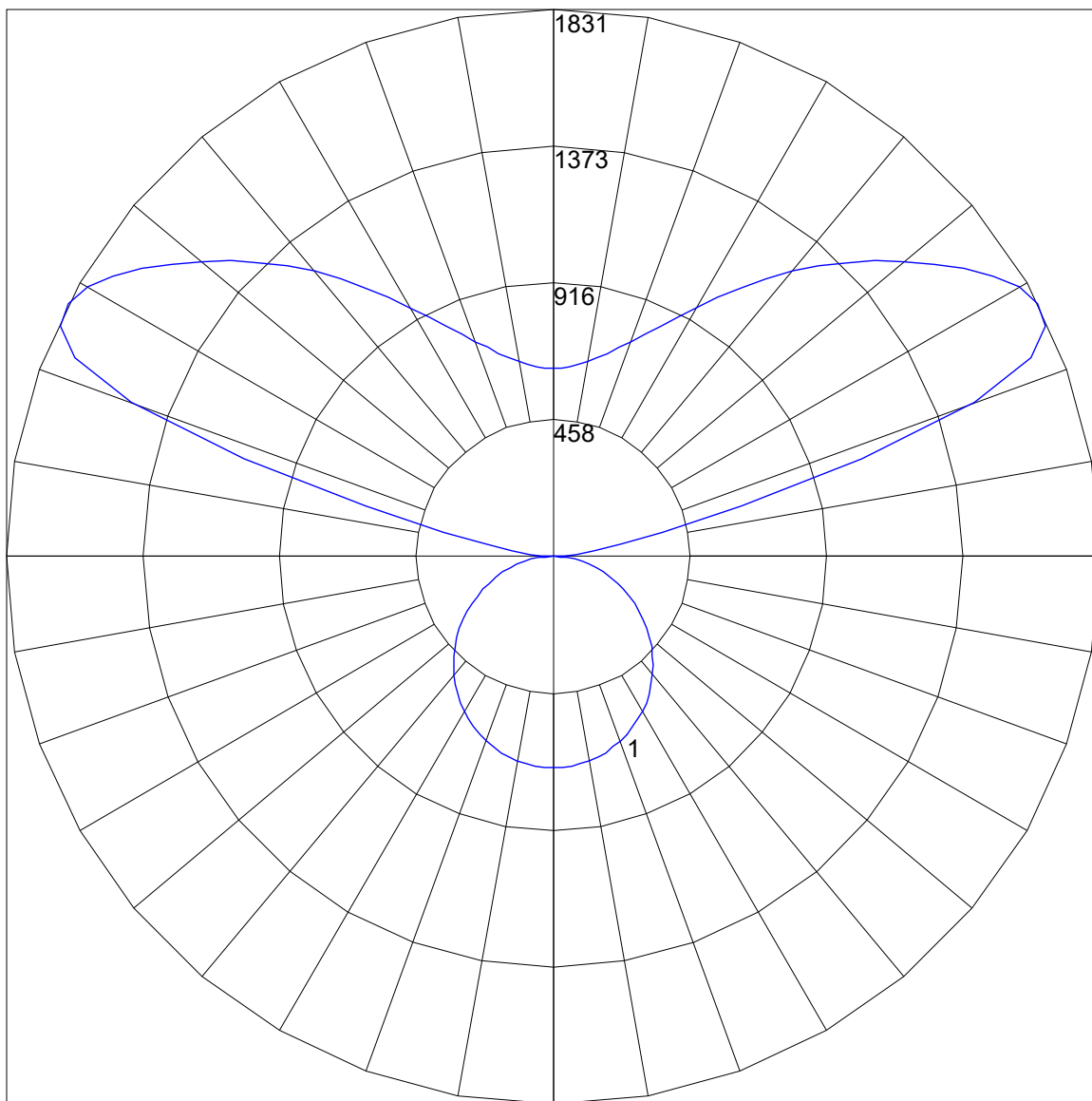
Zone	Lumens
0-10	66.93
10-20	191.76
20-30	290.60
30-40	350.65
40-50	364.43
50-60	331.06
60-70	257.24
70-80	157.40
80-90	50.73
90-100	141.44
100-110	625.08
110-120	926.16
120-130	820.37
130-140	656.14
140-150	483.15
150-160	323.70
160-170	185.97
170-180	60.67

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	74	74	74	56	56	56	40	40	40	33
1	94	89	86	82	84	81	77	74	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	76	70	65	61	56	52	49	43	41	38	31	29	28	23
3	78	68	61	55	70	62	55	51	49	45	41	38	35	32	27	25	24	19
4	71	60	52	47	63	54	48	43	44	39	35	34	30	27	24	22	20	16
5	65	53	46	40	58	48	42	36	39	34	30	30	26	24	22	19	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	24	21	18	18	15	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 1831 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)