

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 : HP-4-ID-4FT-V-V-835-WSO-DSO-ITL89033-ITL92993.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/08/17

[ISSUEDATE]08/04/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-V-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 72.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 73.5 WATTS

[OTHER]see www.finelite.com for source files ITL89033 and ITL92293. 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

[_ABSOLUTE]LUMENS]8065

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8065
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	72.9
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8324	10950	11939
55	7664	10407	11148
65	7013	9495	9988
75	6305	8267	8460
85	5540	6496	6305

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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	1250	1250	1250	1250	1250
2.5	1247	1248	1250	1251	1252
5.0	1241	1243	1249	1255	1257
7.5	1230	1236	1248	1260	1264
10.0	1217	1223	1245	1268	1275
12.5	1204	1209	1243	1279	1288
15.0	1187	1204	1242	1287	1298
17.5	1150	1168	1241	1290	1306
20.0	1119	1141	1239	1290	1308
22.5	1088	1114	1215	1286	1307
25.0	1053	1091	1197	1277	1300
27.5	1011	1058	1178	1264	1286
30.0	971	1021	1155	1245	1265
32.5	929	987	1133	1223	1239
35.0	887	950	1096	1193	1205
37.5	842	909	1060	1149	1165
40.0	800	867	1020	1103	1121
42.5	752	826	977	1057	1070
45.0	707	780	930	1002	1014
47.5	663	734	882	948	959
50.0	617	687	830	892	896
52.5	571	640	773	831	833
55.0	528	591	717	765	768
57.5	485	543	659	702	703
60.0	441	494	600	638	639
62.5	397	448	540	575	572
65.0	356	399	482	508	507
67.5	316	351	424	446	444
70.0	273	305	367	383	378
72.5	235	260	311	323	319
75.0	196	217	257	265	263
77.5	160	174	205	211	209
80.0	124	135	156	160	155
82.5	91	97	110	112	108
85.0	58	61	68	66	66
87.5	27	27	28	26	25
90.0	0	0	0	0	0
92.5	16	28	30	30	30
95.0	45	80	82	64	64
97.5	79	136	210	131	114
100.0	119	186	333	246	193
102.5	167	227	492	381	310
105.0	211	271	614	589	472
107.5	256	315	670	862	725
110.0	299	356	697	1089	1038
112.5	343	396	729	1183	1245
115.0	385	434	783	1212	1323
117.5	419	469	826	1226	1352
120.0	450	503	854	1281	1373
122.5	477	536	872	1349	1438
125.0	503	565	885	1386	1514
127.5	527	591	895	1387	1554
130.0	547	614	903	1363	1547
132.5	568	636	910	1330	1510

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-WSO-DSO-ITL89033-ITL92993.IES****CANDELA TABULATION - (Cont.)**

135.0	588	656	915	1294	1462
137.5	607	674	917	1255	1407
140.0	627	691	918	1216	1349
142.5	647	707	917	1175	1291
145.0	668	723	912	1137	1234
147.5	685	736	905	1099	1179
150.0	703	749	898	1062	1129
152.5	721	760	890	1026	1083
155.0	737	771	882	992	1037
157.5	752	780	872	961	996
160.0	766	789	864	933	959
162.5	778	796	854	907	927
165.0	790	802	845	884	899
167.5	799	807	837	864	875
170.0	806	812	831	848	854
172.5	811	815	826	835	839
175.0	816	817	821	825	828
177.5	818	818	819	820	820
180.0	819	819	819	819	819

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-835-WSO-DSO-ITL89033-ITL92993.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	469.77	N.A.	5.80
0-30	1015.78	N.A.	12.60
0-40	1684.49	N.A.	20.90
0-60	2981.79	N.A.	37.00
0-80	3690.04	N.A.	45.80
0-90	3763.33	N.A.	46.70
10-90	3644.22	N.A.	45.20
20-40	1214.72	N.A.	15.10
20-50	1903.66	N.A.	23.60
40-70	1748.48	N.A.	21.70
60-80	708.25	N.A.	8.80
70-80	257.07	N.A.	3.20
80-90	73.29	N.A.	0.90
90-110	581.48	N.A.	7.20
90-120	1385.14	N.A.	17.20
90-130	2237.22	N.A.	27.70
90-150	3574.02	N.A.	44.30
90-180	4302.09	N.A.	53.30
110-180	3720.6	N.A.	46.10
0-180	8065.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.12
10-20	350.65
20-30	546.01
30-40	668.71
40-50	688.94
50-60	608.36
60-70	451.18
70-80	257.07
80-90	73.29
90-100	96.89
100-110	484.59
110-120	803.65
120-130	852.09
130-140	751.91
140-150	584.88
150-160	409.48
160-170	239.90
170-180	78.69

IES INDOOR REPORT

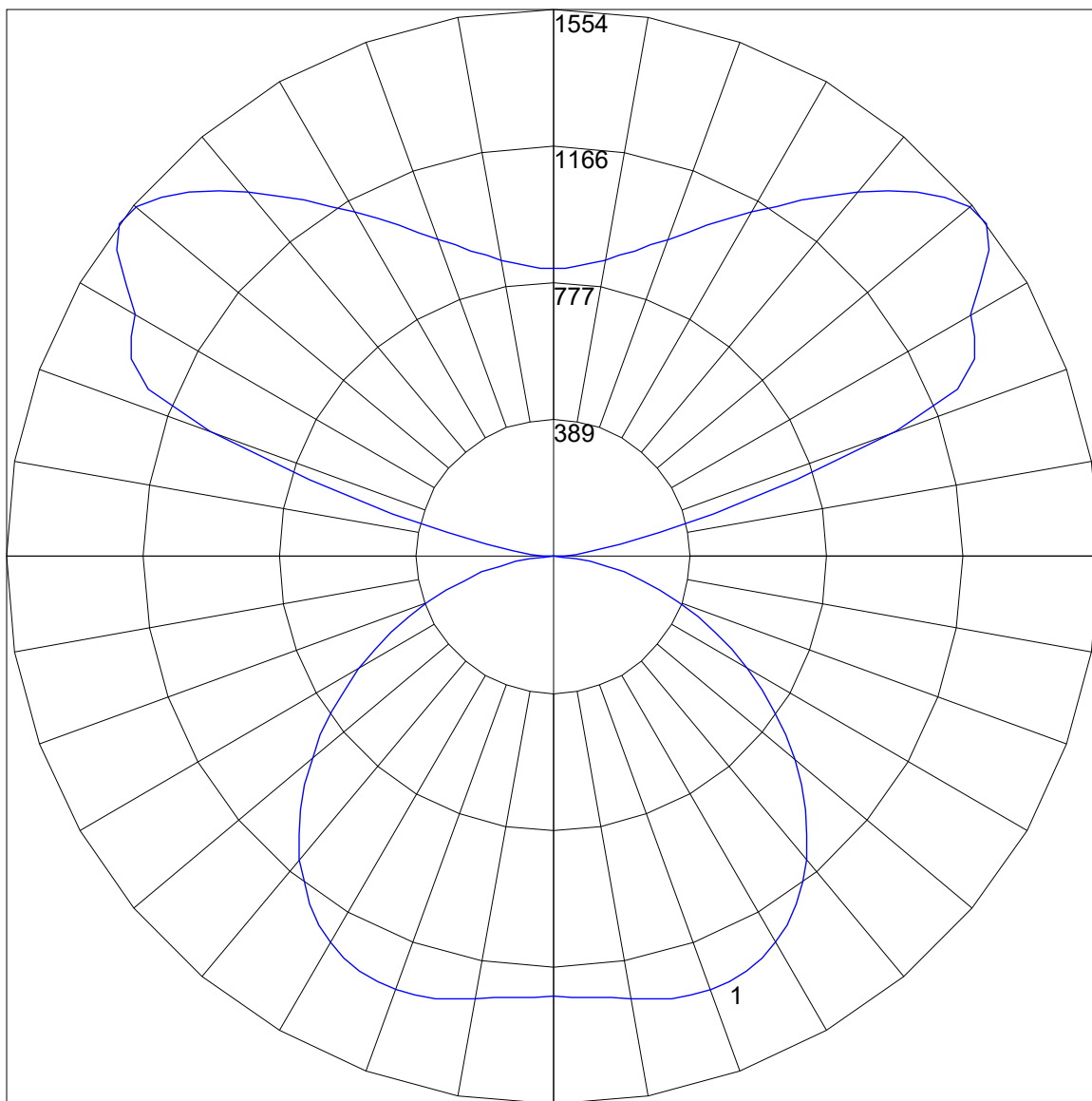
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	46	45	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	57	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	62	55	48	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	26	29	25	22	24	21	18	15
8	53	41	33	27	48	38	31	26	32	27	23	27	22	19	22	19	16	14
9	49	37	29	24	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	31	25	21	27	22	18	23	19	16	19	15	13	11

POLAR GRAPH



Maximum Candela = 1554 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)