

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-2-ID-RG-4FT-V-V-835-WSOTG-F-ITL90350 ITL89456.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350 ITL89456 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]05/31/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-V-V-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 72.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 74.5 WATTS

[OTHER]see www.finelite.com for source file ITL89456. 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]6905

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6905
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	72.5
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18357	13054	10349
55	16517	10376	8073
65	14621	7867	6143
75	12436	6042	5514
85	9929	4877	4529

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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	1529	1529	1529	1529	1529
2.5	1527	1526	1525	1524	1523
5.0	1520	1518	1513	1507	1504
7.5	1508	1503	1489	1477	1471
10.0	1491	1479	1458	1436	1427
12.5	1470	1448	1417	1385	1372
15.0	1443	1412	1370	1327	1309
17.5	1413	1372	1316	1263	1240
20.0	1378	1327	1258	1195	1168
22.5	1336	1277	1196	1122	1092
25.0	1293	1224	1131	1049	1017
27.5	1246	1168	1064	975	941
30.0	1196	1111	997	900	867
32.5	1141	1053	929	826	795
35.0	1086	993	862	757	722
37.5	1030	932	796	690	656
40.0	972	870	731	627	594
42.5	914	810	668	567	536
45.0	855	749	608	511	482
47.5	795	691	550	458	433
50.0	736	632	494	408	386
52.5	681	574	442	364	344
55.0	624	516	392	322	305
57.5	568	462	344	283	268
60.0	513	410	299	246	233
62.5	459	359	258	212	200
65.0	407	311	219	178	171
67.5	354	265	183	154	152
70.0	305	221	150	134	132
72.5	258	180	124	115	112
75.0	212	141	103	95	94
77.5	171	105	82	77	76
80.0	131	74	63	59	59
82.5	92	52	45	42	42
85.0	57	32	28	26	26
87.5	24	14	12	11	11
90.0	0	0	0	0	0
92.5	18	31	31	30	30
95.0	47	83	83	69	68
97.5	79	136	167	120	113
100.0	112	177	332	193	170
102.5	148	216	459	341	271
105.0	183	258	532	556	458
107.5	218	299	577	750	699
110.0	253	337	617	864	873
112.5	288	374	664	939	977
115.0	324	409	720	993	1048
117.5	360	444	781	1044	1103
120.0	396	481	831	1098	1158
122.5	429	512	867	1174	1216
125.0	460	542	887	1257	1299
127.5	489	570	899	1313	1391
130.0	513	594	906	1336	1457
132.5	537	616	908	1327	1478

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-V-835-WSOTG-F-ITL90350 ITL89456.IES****CANDELA TABULATION - (Cont.)**

135.0	558	634	907	1299	1457
137.5	577	651	904	1261	1413
140.0	596	666	899	1219	1357
142.5	614	680	892	1172	1297
145.0	633	693	885	1127	1236
147.5	649	703	877	1081	1174
150.0	665	714	867	1040	1116
152.5	680	722	855	1001	1062
155.0	694	728	843	963	1012
157.5	707	736	832	928	967
160.0	718	741	819	894	925
162.5	728	745	806	865	886
165.0	736	749	793	837	853
167.5	743	752	783	813	824
170.0	749	755	776	794	801
172.5	752	757	768	778	784
175.0	756	758	763	768	770
177.5	758	758	760	760	761
180.0	759	759	759	759	759

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-V-835-WSOTG-F-ITL90350 ITL89456.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	527.37	N.A.	7.60
0-30	1050.87	N.A.	15.20
0-40	1600.47	N.A.	23.20
0-60	2470.38	N.A.	35.80
0-80	2851.03	N.A.	41.30
0-90	2887.32	N.A.	41.80
10-90	2744.7	N.A.	39.70
20-40	1073.1	N.A.	15.50
20-50	1563.06	N.A.	22.60
40-70	1119.36	N.A.	16.20
60-80	380.65	N.A.	5.50
70-80	131.21	N.A.	1.90
80-90	36.28	N.A.	0.50
90-110	525.79	N.A.	7.60
90-120	1219.49	N.A.	17.70
90-130	2012.46	N.A.	29.10
90-150	3325.54	N.A.	48.20
90-180	4017.8	N.A.	58.20
110-180	3492.02	N.A.	50.60
0-180	6905.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.62
10-20	384.75
20-30	523.50
30-40	549.60
40-50	489.96
50-60	379.95
60-70	249.45
70-80	131.21
80-90	36.28
90-100	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

IES INDOOR REPORT

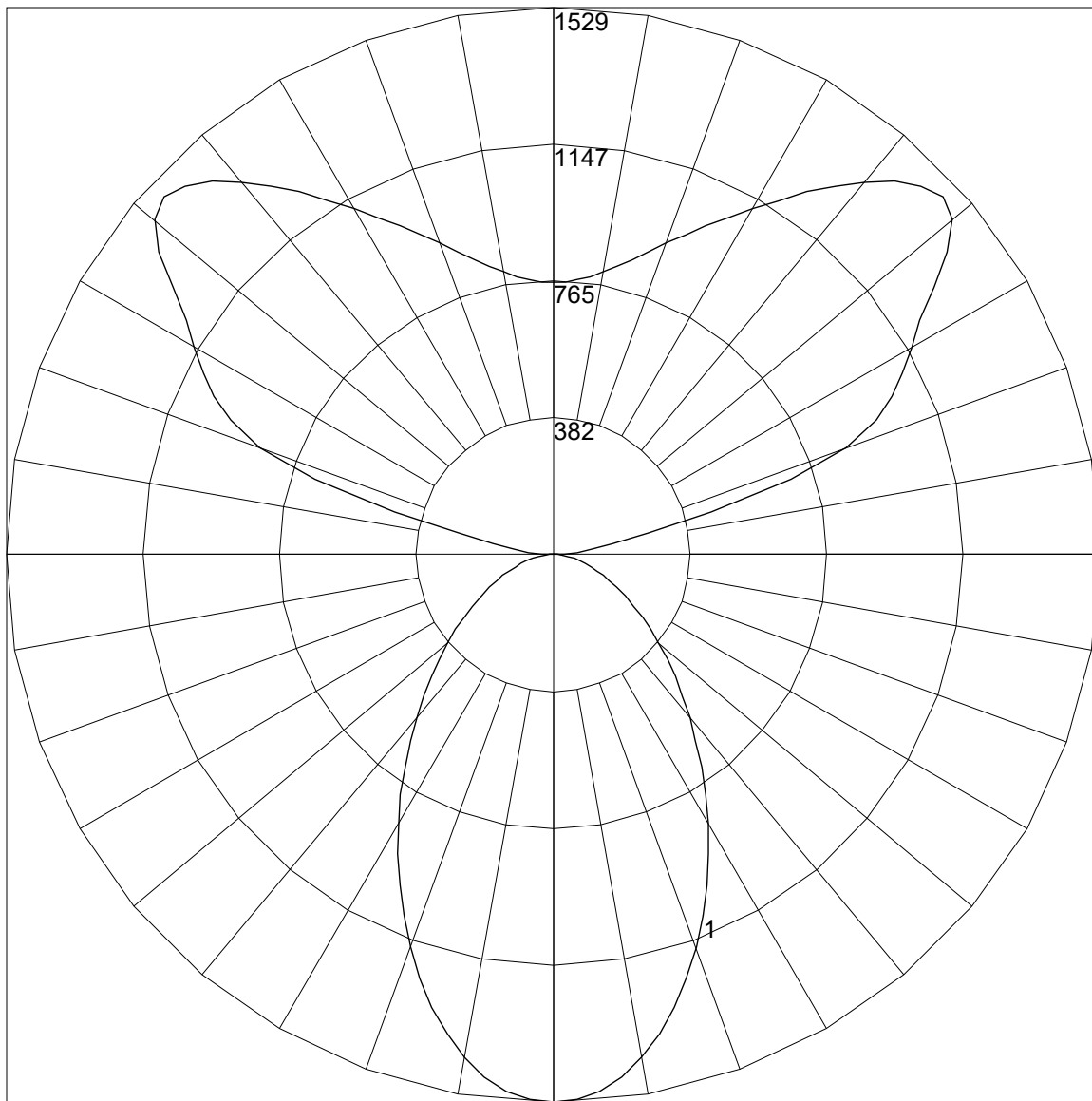
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	89	85	88	84	81	79	70	68	66	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36	31
3	81	72	65	59	73	66	60	55	55	50	47	45	41	39	35	33	31	27
4	74	64	56	51	67	59	52	47	49	44	40	40	37	34	32	29	27	24
5	68	57	49	44	62	53	46	41	44	39	35	36	32	30	29	26	24	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19
7	58	46	39	34	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	30	49	39	33	28	33	28	24	28	24	21	22	20	18	15
9	50	39	31	27	46	36	29	25	31	25	22	25	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	19	17	15	13

POLAR GRAPH



Maximum Candela = 1529 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)