

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-8TW-WSO-DAO-ITL89033-ITL94331.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/08/17

[ISSUEDATE]08/27/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-V-8TW-WSO-DAO

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com

for lumen adjustment factors for other CCT's & CRI's

[INPUT_ELECTRICAL]120.0 VOLTS, 81.5 WATTS

[INPUT_ELECTRICAL]277.0 VOLTS, 83.3 WATTS

[ABSOLUTE LUMENS]8186

[CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL89033 and ITL94331. 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	8186
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	81.5
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11998	12386	10267
55	10306	11017	9130
65	8629	9377	7959
75	6948	7688	6884
85	5445	5923	6018

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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	1552	1552	1552	1552	1552	1552	1552	1552	1552
2.5	1584	1582	1574	1563	1551	1537	1527	1519	1516
5.0	1609	1605	1591	1569	1543	1518	1494	1481	1476
7.5	1628	1621	1602	1569	1530	1491	1458	1440	1433
10.0	1641	1635	1606	1563	1514	1461	1422	1397	1385
12.5	1645	1640	1606	1551	1495	1427	1383	1352	1339
15.0	1641	1635	1599	1533	1468	1389	1341	1306	1292
17.5	1628	1623	1586	1512	1437	1349	1293	1260	1243
20.0	1606	1603	1566	1482	1403	1304	1246	1212	1197
22.5	1576	1573	1539	1451	1367	1257	1201	1164	1153
25.0	1538	1537	1506	1415	1323	1210	1153	1119	1110
27.5	1493	1493	1465	1373	1277	1161	1102	1075	1064
30.0	1441	1444	1419	1327	1226	1108	1056	1030	1023
32.5	1383	1387	1368	1279	1173	1057	1007	985	982
35.0	1315	1325	1314	1224	1116	1003	960	943	939
37.5	1249	1261	1251	1166	1056	950	911	901	900
40.0	1175	1192	1188	1106	998	895	862	856	861
42.5	1102	1114	1123	1045	938	842	815	815	819
45.0	1019	1039	1052	976	872	787	768	774	779
47.5	943	965	980	911	812	735	718	731	741
50.0	866	885	906	846	749	683	672	688	699
52.5	790	807	833	776	687	626	625	644	657
55.0	710	733	759	707	629	576	578	601	616
57.5	638	657	685	642	569	524	531	558	573
60.0	564	587	615	578	513	475	483	510	526
62.5	499	515	546	512	459	426	439	466	482
65.0	438	452	476	450	404	381	391	421	436
67.5	374	386	411	392	352	334	348	376	386
70.0	320	329	351	335	305	289	303	329	340
72.5	264	274	294	280	259	246	261	282	294
75.0	216	224	239	230	214	206	218	238	248
77.5	172	177	189	184	172	166	178	193	199
80.0	130	134	143	142	132	129	138	151	155
82.5	92	93	100	99	96	94	100	108	112
85.0	57	57	62	62	63	60	64	67	70
87.5	22	24	26	28	29	28	29	30	31
90.0	0	0	0	0	0	0	0	0	0
92.5	16	28	30	30	30	30	30	28	16
95.0	45	80	82	64	64	64	82	80	45
97.5	79	136	210	131	114	131	210	136	79
100.0	119	186	333	246	193	246	333	186	119
102.5	167	227	492	381	310	381	492	227	167
105.0	211	271	614	589	472	589	614	271	211
107.5	256	315	670	862	725	862	670	315	256
110.0	299	356	697	1089	1038	1089	697	356	299
112.5	343	396	729	1183	1245	1183	729	396	343
115.0	385	434	783	1212	1323	1212	783	434	385
117.5	419	469	826	1226	1352	1226	826	469	419
120.0	450	503	854	1281	1373	1281	854	503	450
122.5	477	536	872	1349	1438	1349	872	536	477
125.0	503	565	885	1386	1514	1386	885	565	503
127.5	527	591	895	1387	1554	1387	895	591	527
130.0	547	614	903	1363	1547	1363	903	614	547
132.5	568	636	910	1330	1510	1330	910	636	568

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-WSO-DAO-ITL89033-ITL94331.900.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-V-8TW-WSO-DAO-ITL89033-ITL94331.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	6.80
0-30	1168.58	N.A.	14.30
0-40	1872.64	N.A.	22.90
0-60	3150.8	N.A.	38.50
0-80	3813.23	N.A.	46.60
0-90	3883.51	N.A.	47.40
10-90	3737.17	N.A.	45.70
20-40	1312.97	N.A.	16.00
20-50	2004.47	N.A.	24.50
40-70	1701.22	N.A.	20.80
60-80	662.43	N.A.	8.10
70-80	239.36	N.A.	2.90
80-90	70.28	N.A.	0.90
90-110	581.48	N.A.	7.10
90-120	1385.14	N.A.	16.90
90-130	2237.22	N.A.	27.30
90-150	3574.02	N.A.	43.70
90-180	4302.09	N.A.	52.60
110-180	3720.6	N.A.	45.50
0-180	8185.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.34
10-20	413.34
20-30	608.90
30-40	704.07
40-50	691.50
50-60	586.66
60-70	423.06
70-80	239.36
80-90	70.28
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

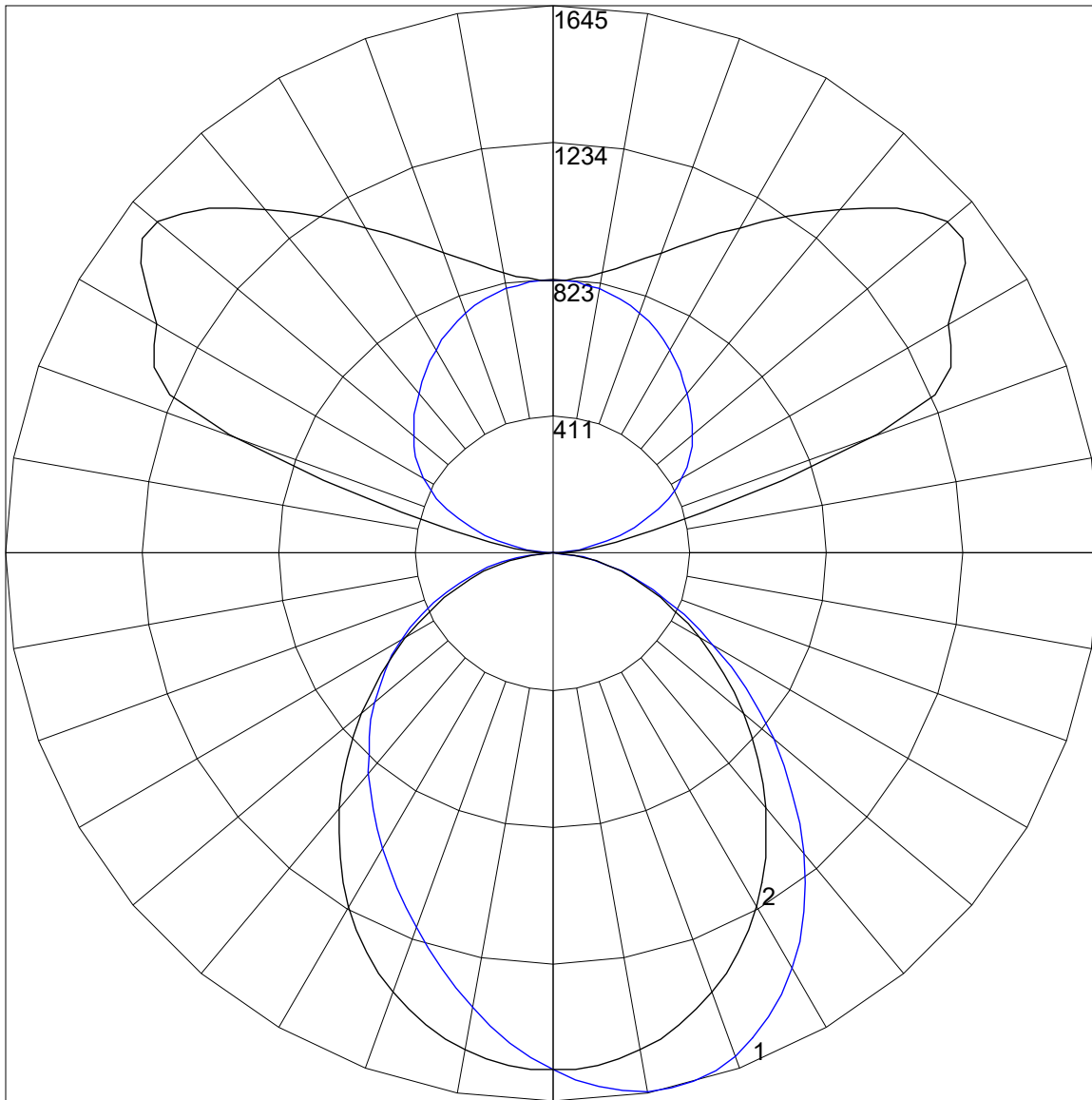
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

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POLAR GRAPH



Maximum Candela = 1645 Located At Horizontal Angle = 0, Vertical Angle = 12.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)