



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FLAIR-LED35-HO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Flair-LED35-HO-SAL
 [TESTLAB] Intertek
 [ISSUE DATE] July 10, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10516	7895	7152
55	10335	6946	6046
65	10326	5861	4712
75	10937	4572	3005
85	15661	3244	923

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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>	<u>202.5</u>
0.0	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150
2.5	1581.374	1580.901	1576.220	1581.175	1576.295	1581.175	1576.220	1580.901	1581.374	1580.901
5.0	1576.245	1575.647	1570.667	1575.249	1570.219	1575.249	1570.667	1575.647	1576.245	1575.647
7.5	1567.430	1566.584	1561.230	1565.513	1560.533	1565.513	1561.230	1566.584	1567.430	1566.584
10.0	1554.881	1553.835	1548.083	1551.868	1546.439	1551.868	1548.083	1553.835	1554.881	1553.835
12.5	1538.945	1537.799	1531.300	1534.238	1528.661	1534.238	1531.300	1537.799	1538.945	1537.799
15.0	1519.896	1518.452	1511.131	1512.899	1507.172	1512.899	1511.131	1518.452	1519.896	1518.452
17.5	1498.507	1495.843	1487.551	1488.223	1482.173	1488.223	1487.551	1495.843	1498.507	1495.843
20.0	1473.906	1470.594	1460.684	1460.410	1453.712	1460.410	1460.684	1470.594	1473.906	1470.594
22.5	1447.213	1442.258	1430.953	1429.459	1422.263	1429.459	1430.953	1442.258	1447.213	1442.258
25.0	1414.494	1410.311	1398.110	1395.346	1387.577	1395.346	1398.110	1410.311	1414.494	1410.311
27.5	1379.211	1375.376	1362.179	1358.420	1350.053	1358.420	1362.179	1375.376	1379.211	1375.376
30.0	1342.757	1337.578	1323.460	1318.779	1309.516	1318.779	1323.460	1337.578	1342.757	1337.578
32.5	1305.557	1297.987	1282.300	1276.474	1266.588	1276.474	1282.300	1297.987	1305.557	1297.987
35.0	1265.692	1256.529	1239.323	1231.803	1221.420	1231.803	1239.323	1256.529	1265.692	1256.529
37.5	1222.092	1212.979	1194.329	1185.265	1174.184	1185.265	1194.329	1212.979	1222.092	1212.979
40.0	1175.380	1167.237	1146.894	1136.486	1124.260	1136.486	1146.894	1167.237	1175.380	1167.237
42.5	1128.095	1119.529	1097.468	1085.242	1072.368	1085.242	1097.468	1119.529	1128.095	1119.529
45.0	1080.461	1069.953	1046.373	1032.030	1018.958	1032.030	1046.373	1069.953	1080.461	1069.953
47.5	1030.661	1019.082	993.659	977.026	964.128	977.026	993.659	1019.082	1030.661	1019.082
50.0	979.442	967.415	940.025	920.628	907.555	920.628	940.025	967.415	979.442	967.415
52.5	927.650	915.175	885.145	862.685	849.613	862.685	885.145	915.175	927.650	915.175
55.0	876.082	862.362	828.548	803.174	790.700	803.174	828.548	862.362	876.082	862.362
57.5	823.742	808.578	771.228	742.468	730.367	742.468	771.228	808.578	823.742	808.578
60.0	770.232	754.196	713.983	680.915	668.515	680.915	713.983	754.196	770.232	754.196
62.5	716.323	700.263	657.609	619.039	605.693	619.039	657.609	700.263	716.323	700.263
65.0	663.087	645.632	600.140	556.615	542.521	556.615	600.140	645.632	663.087	645.632
67.5	610.523	591.973	542.621	493.991	479.499	493.991	542.621	591.973	610.523	591.973
70.0	558.158	537.965	485.749	432.015	415.656	432.015	485.749	537.965	558.158	537.965
72.5	506.342	485.475	430.347	371.209	351.389	371.209	430.347	485.475	506.342	485.475
75.0	456.243	434.854	376.812	312.221	288.467	312.221	376.812	434.854	456.243	434.854
77.5	409.007	386.249	325.792	255.798	228.009	255.798	325.792	386.249	409.007	386.249
80.0	363.789	340.159	277.760	202.910	170.291	202.910	277.760	340.159	363.789	340.159
82.5	320.837	297.206	233.537	154.978	116.283	154.978	233.537	297.206	320.837	297.206
85.0	281.071	258.039	194.369	113.718	68.251	113.718	194.369	258.039	281.071	258.039
87.5	245.888	223.253	160.754	80.950	27.589	80.950	160.754	223.253	245.888	223.253
90.0	215.236	193.174	133.290	58.042	5.080	58.042	133.290	193.174	215.236	193.174
92.5	208.538	189.165	133.862	65.387	15.139	65.387	133.862	189.165	208.538	189.165
95.0	193.871	175.968	125.720	66.832	23.057	66.832	125.720	175.968	193.871	175.968
97.5	183.065	166.979	122.533	73.156	32.146	73.156	122.533	166.979	183.065	166.979
100.0	176.417	162.099	123.404	82.195	40.463	82.195	123.404	162.099	176.417	162.099
102.5	172.881	160.555	127.214	92.180	46.638	92.180	127.214	160.555	172.881	160.555
105.0	172.383	161.750	133.265	102.414	52.166	102.414	133.265	161.750	172.383	161.750
107.5	174.101	165.112	140.934	112.697	57.469	112.697	140.934	165.112	174.101	165.112
110.0	177.711	170.117	149.400	122.832	62.574	122.832	149.400	170.117	177.711	170.117
112.5	182.915	176.666	158.190	132.941	67.529	132.941	158.190	176.666	182.915	176.666
115.0	189.365	184.160	166.979	143.051	72.459	143.051	166.979	184.160	189.365	184.160
117.5	196.411	191.730	175.694	153.011	77.190	153.011	175.694	191.730	196.411	191.730
120.0	203.259	199.125	184.235	162.697	81.772	162.697	184.235	199.125	203.259	199.125
122.5	210.131	206.421	192.527	171.835	86.254	171.835	192.527	206.421	210.131	206.421
125.0	216.630	213.518	200.520	181.421	90.536	181.421	200.520	213.518	216.630	213.518
127.5	223.054	220.415	208.214	189.688	94.670	189.688	208.214	220.415	223.054	220.415
130.0	229.080	227.088	215.634	192.228	98.679	192.228	215.634	227.088	229.080	227.088
132.5	234.857	233.462	222.681	193.149	102.414	193.149	222.681	233.462	234.857	233.462

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CANDELA TABULATION - (Cont.)

135.0	240.285	239.638	229.329	193.473	105.974	193.473	229.329	239.638	240.285	239.638
137.5	245.539	245.564	235.554	193.249	109.286	193.249	235.554	245.564	245.539	245.564
140.0	250.394	251.166	241.306	192.626	112.448	192.626	241.306	251.166	250.394	251.166
142.5	255.026	256.470	248.228	191.556	115.387	191.556	248.228	256.470	255.026	256.470
145.0	259.284	261.326	253.831	190.161	118.151	190.161	253.831	261.326	259.284	261.326
147.5	263.193	265.907	249.125	188.219	120.616	188.219	249.125	265.907	263.193	265.907
150.0	266.679	272.082	242.924	185.530	122.882	185.530	242.924	272.082	266.679	272.082
152.5	273.228	273.377	236.251	181.919	124.923	181.919	236.251	273.377	273.228	273.377
155.0	269.094	263.567	229.105	177.935	126.766	177.935	229.105	263.567	269.094	263.567
157.5	257.864	253.158	221.486	173.478	128.459	173.478	221.486	253.158	257.864	253.158
160.0	246.261	241.928	213.244	168.797	129.829	168.797	213.244	241.928	246.261	241.928
162.5	234.259	230.225	204.031	163.792	131.099	163.792	204.031	230.225	234.259	230.225
165.0	221.486	217.775	193.025	158.812	132.194	158.812	193.025	217.775	221.486	217.775
167.5	207.293	203.358	181.720	153.708	133.165	153.708	181.720	203.358	207.293	203.358
170.0	190.759	187.373	169.943	148.404	134.012	148.404	169.943	187.373	190.759	187.373
172.5	173.453	171.412	158.663	142.752	134.609	142.752	158.663	171.412	173.453	171.412
175.0	156.422	155.924	147.333	137.124	134.983	137.124	147.333	155.924	156.422	155.924
177.5	139.988	140.859	136.676	135.406	135.107	135.406	136.676	140.859	139.988	140.859
180.0	135.655	135.655	135.655	135.655	135.655	135.655	135.655	135.655	135.655	135.655

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150	1581.150
2.5	1576.220	1581.175	1576.295	1581.175	1576.220	1580.901	1581.374
5.0	1570.667	1575.249	1570.219	1575.249	1570.667	1575.647	1576.245
7.5	1561.230	1565.513	1560.533	1565.513	1561.230	1566.584	1567.430
10.0	1548.083	1551.868	1546.439	1551.868	1548.083	1553.835	1554.881
12.5	1531.300	1534.238	1528.661	1534.238	1531.300	1537.799	1538.945
15.0	1511.131	1512.899	1507.172	1512.899	1511.131	1518.452	1519.896
17.5	1487.551	1488.223	1482.173	1488.223	1487.551	1495.843	1498.507
20.0	1460.684	1460.410	1453.712	1460.410	1460.684	1470.594	1473.906
22.5	1430.953	1429.459	1422.263	1429.459	1430.953	1442.258	1447.213
25.0	1398.110	1395.346	1387.577	1395.346	1398.110	1410.311	1414.494
27.5	1362.179	1358.420	1350.053	1358.420	1362.179	1375.376	1379.211
30.0	1323.460	1318.779	1309.516	1318.779	1323.460	1337.578	1342.757
32.5	1282.300	1276.474	1266.588	1276.474	1282.300	1297.987	1305.557
35.0	1239.323	1231.803	1221.420	1231.803	1239.323	1256.529	1265.692
37.5	1194.329	1185.265	1174.184	1185.265	1194.329	1212.979	1222.092
40.0	1146.894	1136.486	1124.260	1136.486	1146.894	1167.237	1175.380
42.5	1097.468	1085.242	1072.368	1085.242	1097.468	1119.529	1128.095
45.0	1046.373	1032.030	1018.958	1032.030	1046.373	1069.953	1080.461
47.5	993.659	977.026	964.128	977.026	993.659	1019.082	1030.661
50.0	940.025	920.628	907.555	920.628	940.025	967.415	979.442
52.5	885.145	862.685	849.613	862.685	885.145	915.175	927.650
55.0	828.548	803.174	790.700	803.174	828.548	862.362	876.082
57.5	771.228	742.468	730.367	742.468	771.228	808.578	823.742
60.0	713.983	680.915	668.515	680.915	713.983	754.196	770.232
62.5	657.609	619.039	605.693	619.039	657.609	700.263	716.323
65.0	600.140	556.615	542.521	556.615	600.140	645.632	663.087
67.5	542.621	493.991	479.499	493.991	542.621	591.973	610.523
70.0	485.749	432.015	415.656	432.015	485.749	537.965	558.158
72.5	430.347	371.209	351.389	371.209	430.347	485.475	506.342
75.0	376.812	312.221	288.467	312.221	376.812	434.854	456.243
77.5	325.792	255.798	228.009	255.798	325.792	386.249	409.007
80.0	277.760	202.910	170.291	202.910	277.760	340.159	363.789

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CANDELA TABULATION - (Cont.)

82.5	233.537	154.978	116.283	154.978	233.537	297.206	320.837
85.0	194.369	113.718	68.251	113.718	194.369	258.039	281.071
87.5	160.754	80.950	27.589	80.950	160.754	223.253	245.888
90.0	133.290	58.042	5.080	58.042	133.290	193.174	215.236
92.5	133.862	65.387	15.139	65.387	133.862	189.165	208.538
95.0	125.720	66.832	23.057	66.832	125.720	175.968	193.871
97.5	122.533	73.156	32.146	73.156	122.533	166.979	183.065
100.0	123.404	82.195	40.463	82.195	123.404	162.099	176.417
102.5	127.214	92.180	46.638	92.180	127.214	160.555	172.881
105.0	133.265	102.414	52.166	102.414	133.265	161.750	172.383
107.5	140.934	112.697	57.469	112.697	140.934	165.112	174.101
110.0	149.400	122.832	62.574	122.832	149.400	170.117	177.711
112.5	158.190	132.941	67.529	132.941	158.190	176.666	182.915
115.0	166.979	143.051	72.459	143.051	166.979	184.160	189.365
117.5	175.694	153.011	77.190	153.011	175.694	191.730	196.411
120.0	184.235	162.697	81.772	162.697	184.235	199.125	203.259
122.5	192.527	171.835	86.254	171.835	192.527	206.421	210.131
125.0	200.520	181.421	90.536	181.421	200.520	213.518	216.630
127.5	208.214	189.688	94.670	189.688	208.214	220.415	223.054
130.0	215.634	192.228	98.679	192.228	215.634	227.088	229.080
132.5	222.681	193.149	102.414	193.149	222.681	233.462	234.857
135.0	229.329	193.473	105.974	193.473	229.329	239.638	240.285
137.5	235.554	193.249	109.286	193.249	235.554	245.564	245.539
140.0	241.306	192.626	112.448	192.626	241.306	251.166	250.394
142.5	248.228	191.556	115.387	191.556	248.228	256.470	255.026
145.0	253.831	190.161	118.151	190.161	253.831	261.326	259.284
147.5	249.125	188.219	120.616	188.219	249.125	265.907	263.193
150.0	242.924	185.530	122.882	185.530	242.924	272.082	266.679
152.5	236.251	181.919	124.923	181.919	236.251	273.377	273.228
155.0	229.105	177.935	126.766	177.935	229.105	263.567	269.094
157.5	221.486	173.478	128.459	173.478	221.486	253.158	257.864
160.0	213.244	168.797	129.829	168.797	213.244	241.928	246.261
162.5	204.031	163.792	131.099	163.792	204.031	230.225	234.259
165.0	193.025	158.812	132.194	158.812	193.025	217.775	221.486
167.5	181.720	153.708	133.165	153.708	181.720	203.358	207.293
170.0	169.943	148.404	134.012	148.404	169.943	187.373	190.759
172.5	158.663	142.752	134.609	142.752	158.663	171.412	173.453
175.0	147.333	137.124	134.983	137.124	147.333	155.924	156.422
177.5	136.676	135.406	135.107	135.406	136.676	140.859	139.988
180.0	135.655	135.655	135.655	135.655	135.655	135.655	135.655

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	576.72	N.A.	9.90
0-30	1222.39	N.A.	21.00
0-40	1999.9	N.A.	34.40
0-60	3553.35	N.A.	61.10
0-80	4545.63	N.A.	78.20
0-90	4752.6	N.A.	81.80
10-90	4603.1	N.A.	79.20
20-40	1423.18	N.A.	24.50
20-50	2232.89	N.A.	38.40
40-70	2148.93	N.A.	37.00
60-80	992.28	N.A.	17.10
70-80	396.80	N.A.	6.80
80-90	206.97	N.A.	3.60
90-110	267.49	N.A.	4.60
90-120	422.44	N.A.	7.30
90-130	589.80	N.A.	10.10
90-150	890.54	N.A.	15.30
90-180	1058.66	N.A.	18.20
110-180	791.16	N.A.	13.60
0-180	5811.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.50
10-20	427.22
20-30	645.67
30-40	777.51
40-50	809.70
50-60	743.74
60-70	595.49
70-80	396.80
80-90	206.97
90-100	131.82
100-110	135.67
110-120	154.95
120-130	167.35
130-140	161.39
140-150	139.36
150-160	100.23
160-170	53.25
170-180	14.64

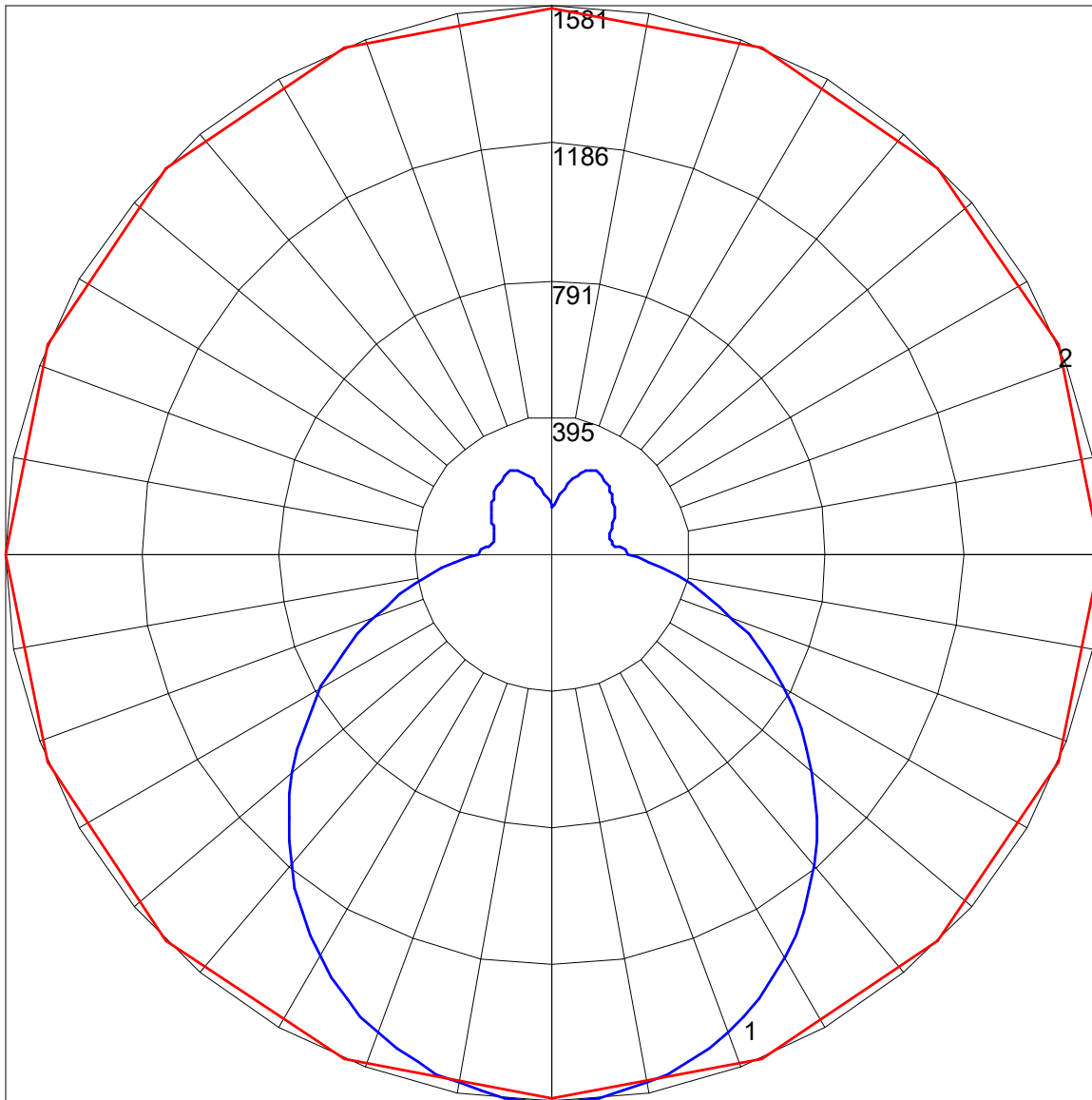
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	104	99	94	90	99	95	90	87	87	84	81	80	77	75	74	72	70	66
2	94	85	78	73	90	82	76	70	76	70	66	70	65	62	64	61	58	55
3	85	75	67	60	81	72	64	58	66	60	55	61	56	52	56	52	49	46
4	78	66	57	51	74	64	55	49	59	52	47	54	49	44	50	45	42	39
5	72	59	50	43	68	57	48	42	52	45	40	49	43	38	45	40	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	41	36	32	29
7	61	48	39	33	58	46	38	32	43	36	31	40	34	29	37	32	28	26
8	57	44	35	29	54	42	34	29	39	32	27	37	31	26	34	29	25	23
9	53	40	32	26	51	39	31	26	36	29	25	34	28	24	31	26	23	21
10	50	37	29	24	48	36	28	23	33	27	22	31	25	21	29	24	20	19

POLAR GRAPH



Maximum Candela = 1581.374 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)