



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Flair-LED35-SO-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	4924
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	40
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	8911	6690	6061
55	8758	5886	5123
65	8750	4966	3993
75	9268	3874	2547
85	13271	2749	782

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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>
<b>0.0</b>	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850
<b>2.5</b>	1340.040	1339.639	1335.672	1339.871	1335.735	1339.871	1335.672	1339.639	1340.040	1339.639
<b>5.0</b>	1335.693	1335.187	1330.967	1334.849	1330.587	1334.849	1330.967	1335.187	1335.693	1335.187
<b>7.5</b>	1328.224	1327.506	1322.970	1326.599	1322.379	1326.599	1322.970	1327.506	1328.224	1327.506
<b>10.0</b>	1317.589	1316.703	1311.829	1315.036	1310.437	1315.036	1311.829	1316.703	1317.589	1316.703
<b>12.5</b>	1304.085	1303.115	1297.608	1300.098	1295.371	1300.098	1297.608	1303.115	1304.085	1303.115
<b>15.0</b>	1287.944	1286.720	1280.517	1282.015	1277.162	1282.015	1280.517	1286.720	1287.944	1286.720
<b>17.5</b>	1269.819	1267.561	1260.535	1261.105	1255.977	1261.105	1260.535	1267.561	1269.819	1267.561
<b>20.0</b>	1248.972	1246.166	1237.768	1237.536	1231.860	1237.536	1237.768	1246.166	1248.972	1246.166
<b>22.5</b>	1226.353	1222.154	1212.575	1211.309	1205.211	1211.309	1212.575	1222.154	1226.353	1222.154
<b>25.0</b>	1198.628	1195.083	1184.744	1182.402	1175.819	1182.402	1184.744	1195.083	1198.628	1195.083
<b>27.5</b>	1168.729	1165.480	1154.297	1151.110	1144.021	1151.110	1154.297	1165.480	1168.729	1165.480
<b>30.0</b>	1137.839	1133.450	1121.486	1117.519	1109.670	1117.519	1121.486	1133.450	1137.839	1133.450
<b>32.5</b>	1106.315	1099.901	1086.608	1081.670	1073.294	1081.670	1086.608	1099.901	1106.315	1099.901
<b>35.0</b>	1072.534	1064.769	1050.189	1043.817	1035.018	1043.817	1050.189	1064.769	1072.534	1064.769
<b>37.5</b>	1035.588	1027.865	1012.061	1004.381	994.992	1004.381	1012.061	1027.865	1035.588	1027.865
<b>40.0</b>	996.004	989.105	971.866	963.046	952.686	963.046	971.866	989.105	996.004	989.105
<b>42.5</b>	955.935	948.677	929.982	919.622	908.714	919.622	929.982	948.677	955.935	948.677
<b>45.0</b>	915.571	906.667	886.685	874.532	863.454	874.532	886.685	906.667	915.571	906.667
<b>47.5</b>	873.371	863.560	842.017	827.922	816.992	827.922	842.017	863.560	873.371	863.560
<b>50.0</b>	829.968	819.777	796.567	780.130	769.053	780.130	796.567	819.777	829.968	819.777
<b>52.5</b>	786.080	775.509	750.063	731.031	719.953	731.031	750.063	775.509	786.080	775.509
<b>55.0</b>	742.382	730.756	702.102	680.602	670.030	680.602	702.102	730.756	742.382	730.756
<b>57.5</b>	698.030	685.180	653.530	629.160	618.905	629.160	653.530	685.180	698.030	685.180
<b>60.0</b>	652.686	639.098	605.021	577.001	566.493	577.001	605.021	639.098	652.686	639.098
<b>62.5</b>	607.005	593.395	557.251	524.567	513.257	524.567	557.251	593.395	607.005	593.395
<b>65.0</b>	561.893	547.102	508.552	471.669	459.727	471.669	508.552	547.102	561.893	547.102
<b>67.5</b>	517.351	501.631	459.811	418.603	406.323	418.603	459.811	501.631	517.351	501.631
<b>70.0</b>	472.978	455.865	411.619	366.085	352.222	366.085	411.619	455.865	472.978	455.865
<b>72.5</b>	429.068	411.387	364.671	314.559	297.763	314.559	364.671	411.387	429.068	411.387
<b>75.0</b>	386.615	368.490	319.306	264.573	244.443	264.573	319.306	368.490	386.615	368.490
<b>77.5</b>	346.589	327.303	276.072	216.760	193.213	216.760	276.072	327.303	346.589	327.303
<b>80.0</b>	308.271	288.247	235.370	171.944	144.303	171.944	235.370	288.247	308.271	288.247
<b>82.5</b>	271.873	251.850	197.897	131.326	98.537	131.326	197.897	251.850	271.873	251.850
<b>85.0</b>	238.177	218.659	164.707	96.364	57.835	96.364	164.707	218.659	238.177	218.659
<b>87.5</b>	208.362	189.183	136.222	68.596	23.379	68.596	136.222	189.183	208.362	189.183
<b>90.0</b>	182.388	163.694	112.948	49.184	4.304	49.184	112.948	163.694	182.388	163.694
<b>92.5</b>	176.712	160.297	113.434	55.409	12.829	55.409	113.434	160.297	176.712	160.297
<b>95.0</b>	164.285	149.114	106.534	56.632	19.539	56.632	106.534	149.114	164.285	149.114
<b>97.5</b>	155.127	141.497	103.833	61.992	27.240	61.992	103.833	141.497	155.127	141.497
<b>100.0</b>	149.493	137.361	104.572	69.651	34.287	69.651	104.572	137.361	149.493	137.361
<b>102.5</b>	146.497	136.053	107.800	78.112	39.520	78.112	107.800	136.053	146.497	136.053
<b>105.0</b>	146.075	137.066	112.927	86.784	44.204	86.784	112.927	137.066	146.075	137.066
<b>107.5</b>	147.531	139.914	119.426	95.499	48.699	95.499	119.426	139.914	147.531	139.914
<b>110.0</b>	150.591	144.155	126.600	104.086	53.024	104.086	126.600	144.155	150.591	144.155
<b>112.5</b>	155.001	149.704	134.048	112.653	57.223	112.653	134.048	149.704	155.001	149.704
<b>115.0</b>	160.465	156.056	141.497	121.219	61.401	121.219	141.497	156.056	160.465	156.056
<b>117.5</b>	166.437	162.470	148.882	129.659	65.410	129.659	148.882	162.470	166.437	162.470
<b>120.0</b>	172.239	168.737	156.119	137.867	69.292	137.867	156.119	168.737	172.239	168.737
<b>122.5</b>	178.063	174.919	163.145	145.611	73.090	145.611	163.145	174.919	178.063	174.919
<b>125.0</b>	183.570	180.932	169.918	153.735	76.720	153.735	169.918	180.932	183.570	180.932
<b>127.5</b>	189.014	186.777	176.438	160.740	80.222	160.740	176.438	186.777	189.014	186.777
<b>130.0</b>	194.120	192.432	182.726	162.892	83.619	162.892	182.726	192.432	194.120	192.432
<b>132.5</b>	199.015	197.834	188.697	163.673	86.784	163.673	188.697	197.834	199.015	197.834

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**CANDELA TABULATION - (Cont.)**

135.0	203.615	203.066	194.331	163.947	89.802	163.947	194.331	203.066	203.615	203.066
137.5	208.067	208.088	199.606	163.757	92.608	163.757	199.606	208.088	208.067	208.088
140.0	212.182	212.836	204.480	163.230	95.288	163.230	204.480	212.836	212.182	212.836
142.5	216.106	217.330	210.346	162.322	97.777	162.322	210.346	217.330	216.106	217.330
145.0	219.714	221.444	215.093	161.141	100.119	161.141	215.093	221.444	219.714	221.444
147.5	223.027	225.327	211.105	159.495	102.208	159.495	211.105	225.327	223.027	225.327
150.0	225.981	230.560	205.852	157.216	104.128	157.216	205.852	230.560	225.981	230.560
152.5	231.530	231.657	200.197	154.157	105.859	154.157	200.197	231.657	231.530	231.657
155.0	228.028	223.343	194.141	150.781	107.420	150.781	194.141	223.343	228.028	223.343
157.5	218.512	214.524	187.684	147.004	108.855	147.004	187.684	214.524	218.512	214.524
160.0	208.679	205.008	180.700	143.037	110.015	143.037	180.700	205.008	208.679	205.008
162.5	198.509	195.091	172.893	138.796	111.091	138.796	172.893	195.091	198.509	195.091
165.0	187.684	184.541	163.567	134.576	112.020	134.576	163.567	184.541	187.684	184.541
167.5	175.657	172.324	153.988	130.250	112.843	130.250	153.988	172.324	175.657	172.324
170.0	161.647	158.777	144.007	125.756	113.560	125.756	144.007	158.777	161.647	158.777
172.5	146.983	145.252	134.449	120.966	114.067	120.966	134.449	145.252	146.983	145.252
175.0	132.550	132.128	124.849	116.198	114.383	116.198	124.849	132.128	132.550	132.128
177.5	118.624	119.363	115.818	114.742	114.489	114.742	115.818	119.363	118.624	119.363
180.0	114.953	114.953	114.953	114.953	114.953	114.953	114.953	114.953	114.953	114.953

**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	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850	1339.850
2.5	1335.672	1339.871	1335.735	1339.871	1335.672	1339.639	1340.040
5.0	1330.967	1334.849	1330.587	1334.849	1330.967	1335.187	1335.693
7.5	1322.970	1326.599	1322.379	1326.599	1322.970	1327.506	1328.224
10.0	1311.829	1315.036	1310.437	1315.036	1311.829	1316.703	1317.589
12.5	1297.608	1300.098	1295.371	1300.098	1297.608	1303.115	1304.085
15.0	1280.517	1282.015	1277.162	1282.015	1280.517	1286.720	1287.944
17.5	1260.535	1261.105	1255.977	1261.105	1260.535	1267.561	1269.819
20.0	1237.768	1237.536	1231.860	1237.536	1237.768	1246.166	1248.972
22.5	1212.575	1211.309	1205.211	1211.309	1212.575	1222.154	1226.353
25.0	1184.744	1182.402	1175.819	1182.402	1184.744	1195.083	1198.628
27.5	1154.297	1151.110	1144.021	1151.110	1154.297	1165.480	1168.729
30.0	1121.486	1117.519	1109.670	1117.519	1121.486	1133.450	1137.839
32.5	1086.608	1081.670	1073.294	1081.670	1086.608	1099.901	1106.315
35.0	1050.189	1043.817	1035.018	1043.817	1050.189	1064.769	1072.534
37.5	1012.061	1004.381	994.992	1004.381	1012.061	1027.865	1035.588
40.0	971.866	963.046	952.686	963.046	971.866	989.105	996.004
42.5	929.982	919.622	908.714	919.622	929.982	948.677	955.935
45.0	886.685	874.532	863.454	874.532	886.685	906.667	915.571
47.5	842.017	827.922	816.992	827.922	842.017	863.560	873.371
50.0	796.567	780.130	769.053	780.130	796.567	819.777	829.968
52.5	750.063	731.031	719.953	731.031	750.063	775.509	786.080
55.0	702.102	680.602	670.030	680.602	702.102	730.756	742.382
57.5	653.530	629.160	618.905	629.160	653.530	685.180	698.030
60.0	605.021	577.001	566.493	577.001	605.021	639.098	652.686
62.5	557.251	524.567	513.257	524.567	557.251	593.395	607.005
65.0	508.552	471.669	459.727	471.669	508.552	547.102	561.893
67.5	459.811	418.603	406.323	418.603	459.811	501.631	517.351
70.0	411.619	366.085	352.222	366.085	411.619	455.865	472.978
72.5	364.671	314.559	297.763	314.559	364.671	411.387	429.068
75.0	319.306	264.573	244.443	264.573	319.306	368.490	386.615
77.5	276.072	216.760	193.213	216.760	276.072	327.303	346.589
80.0	235.370	171.944	144.303	171.944	235.370	288.247	308.271

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**CANDELA TABULATION - (Cont.)**

82.5	197.897	131.326	98.537	131.326	197.897	251.850	271.873
85.0	164.707	96.364	57.835	96.364	164.707	218.659	238.177
87.5	136.222	68.596	23.379	68.596	136.222	189.183	208.362
90.0	112.948	49.184	4.304	49.184	112.948	163.694	182.388
92.5	113.434	55.409	12.829	55.409	113.434	160.297	176.712
95.0	106.534	56.632	19.539	56.632	106.534	149.114	164.285
97.5	103.833	61.992	27.240	61.992	103.833	141.497	155.127
100.0	104.572	69.651	34.287	69.651	104.572	137.361	149.493
102.5	107.800	78.112	39.520	78.112	107.800	136.053	146.497
105.0	112.927	86.784	44.204	86.784	112.927	137.066	146.075
107.5	119.426	95.499	48.699	95.499	119.426	139.914	147.531
110.0	126.600	104.086	53.024	104.086	126.600	144.155	150.591
112.5	134.048	112.653	57.223	112.653	134.048	149.704	155.001
115.0	141.497	121.219	61.401	121.219	141.497	156.056	160.465
117.5	148.882	129.659	65.410	129.659	148.882	162.470	166.437
120.0	156.119	137.867	69.292	137.867	156.119	168.737	172.239
122.5	163.145	145.611	73.090	145.611	163.145	174.919	178.063
125.0	169.918	153.735	76.720	153.735	169.918	180.932	183.570
127.5	176.438	160.740	80.222	160.740	176.438	186.777	189.014
130.0	182.726	162.892	83.619	162.892	182.726	192.432	194.120
132.5	188.697	163.673	86.784	163.673	188.697	197.834	199.015
135.0	194.331	163.947	89.802	163.947	194.331	203.066	203.615
137.5	199.606	163.757	92.608	163.757	199.606	208.088	208.067
140.0	204.480	163.230	95.288	163.230	204.480	212.836	212.182
142.5	210.346	162.322	97.777	162.322	210.346	217.330	216.106
145.0	215.093	161.141	100.119	161.141	215.093	221.444	219.714
147.5	211.105	159.495	102.208	159.495	211.105	225.327	223.027
150.0	205.852	157.216	104.128	157.216	205.852	230.560	225.981
152.5	200.197	154.157	105.859	154.157	200.197	231.657	231.530
155.0	194.141	150.781	107.420	150.781	194.141	223.343	228.028
157.5	187.684	147.004	108.855	147.004	187.684	214.524	218.512
160.0	180.700	143.037	110.015	143.037	180.700	205.008	208.679
162.5	172.893	138.796	111.091	138.796	172.893	195.091	198.509
165.0	163.567	134.576	112.020	134.576	163.567	184.541	187.684
167.5	153.988	130.250	112.843	130.250	153.988	172.324	175.657
170.0	144.007	125.756	113.560	125.756	144.007	158.777	161.647
172.5	134.449	120.966	114.067	120.966	134.449	145.252	146.983
175.0	124.849	116.198	114.383	116.198	124.849	132.128	132.550
177.5	115.818	114.742	114.489	114.742	115.818	119.363	118.624
180.0	114.953	114.953	114.953	114.953	114.953	114.953	114.953

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	488.71	N.A.	9.90
0-30	1035.84	N.A.	21.00
0-40	1694.7	N.A.	34.40
0-60	3011.07	N.A.	61.10
0-80	3851.92	N.A.	78.20
0-90	4027.31	N.A.	81.80
10-90	3900.62	N.A.	79.20
20-40	1205.99	N.A.	24.50
20-50	1892.13	N.A.	38.40
40-70	1820.98	N.A.	37.00
60-80	840.85	N.A.	17.10
70-80	336.24	N.A.	6.80
80-90	175.38	N.A.	3.60
90-110	226.67	N.A.	4.60
90-120	357.98	N.A.	7.30
90-130	499.79	N.A.	10.10
90-150	754.64	N.A.	15.30
90-180	897.10	N.A.	18.20
110-180	670.42	N.A.	13.60
0-180	4924.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	126.69
10-20	362.02
20-30	547.13
30-40	658.86
40-50	686.13
50-60	630.24
60-70	504.61
70-80	336.24
80-90	175.38
90-100	111.70
100-110	114.97
110-120	131.30
120-130	141.81
130-140	136.76
140-150	118.09
150-160	84.93
160-170	45.12
170-180	12.41

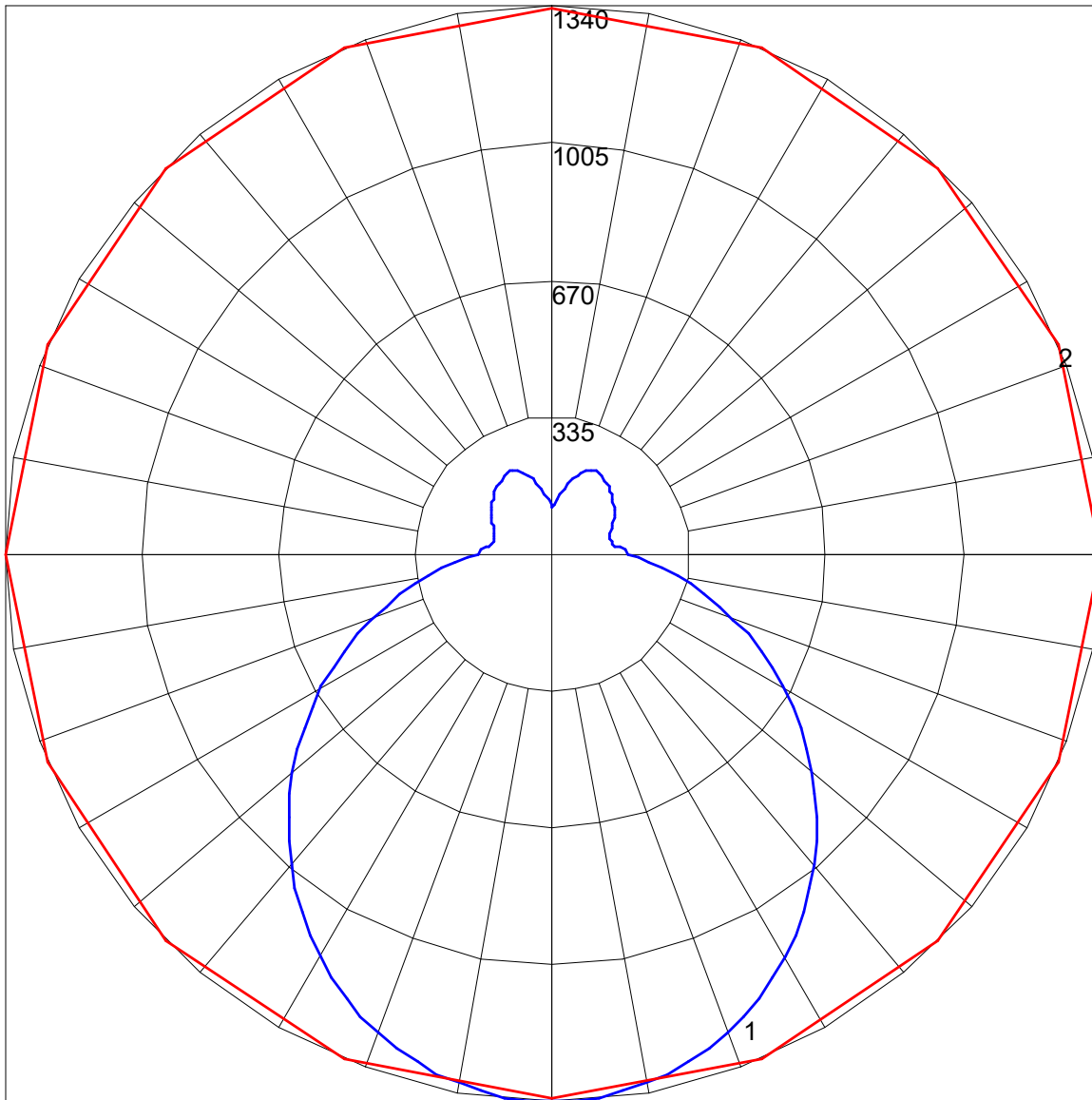
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1340.04 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.)