



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Flair-LED35-MO-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	3524
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	28
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	6377	4788	4337
55	6268	4212	3666
65	6262	3554	2858
75	6633	2773	1823
85	9498	1967	560

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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	958.850	958.850	958.850	958.850	958.850	958.850	958.850	958.850	958.850	958.850
2.5	958.986	958.699	955.860	958.865	955.905	958.865	955.860	958.699	958.986	958.699
5.0	955.875	955.513	952.493	955.271	952.221	955.271	952.493	955.513	955.875	955.513
7.5	950.530	950.016	946.770	949.367	946.347	949.367	946.770	950.016	950.530	950.016
10.0	942.919	942.285	938.797	941.092	937.801	941.092	938.797	942.285	942.919	942.285
12.5	933.255	932.561	928.620	930.402	927.019	930.402	928.620	932.561	933.255	932.561
15.0	921.704	920.828	916.389	917.461	913.988	917.461	916.389	920.828	921.704	920.828
17.5	908.733	907.117	902.089	902.497	898.827	902.497	902.089	907.117	908.733	907.117
20.0	893.814	891.806	885.796	885.630	881.568	885.630	885.796	891.806	893.814	891.806
22.5	877.627	874.622	867.767	866.861	862.497	866.861	867.767	874.622	877.627	874.622
25.0	857.786	855.249	847.850	846.174	841.463	846.174	847.850	855.249	857.786	855.249
27.5	836.389	834.064	826.061	823.780	818.707	823.780	826.061	834.064	836.389	834.064
30.0	814.283	811.142	802.580	799.741	794.124	799.741	802.580	811.142	814.283	811.142
32.5	791.723	787.133	777.620	774.086	768.092	774.086	777.620	787.133	791.723	787.133
35.0	767.548	761.991	751.557	746.997	740.700	746.997	751.557	761.991	767.548	761.991
37.5	741.108	735.581	724.271	718.775	712.056	718.775	724.271	735.581	741.108	735.581
40.0	712.780	707.843	695.506	689.194	681.780	689.194	695.506	707.843	712.780	707.843
42.5	684.105	678.911	665.532	658.118	650.312	658.118	665.532	678.911	684.105	678.911
45.0	655.219	648.847	634.547	625.850	617.922	625.850	634.547	648.847	655.219	648.847
47.5	625.019	617.998	602.581	592.494	584.672	592.494	602.581	617.998	625.019	617.998
50.0	593.958	586.665	570.055	558.292	550.365	558.292	570.055	586.665	593.958	586.665
52.5	562.550	554.985	536.775	523.155	515.227	523.155	536.775	554.985	562.550	554.985
55.0	531.278	522.958	502.452	487.066	479.500	487.066	502.452	522.958	531.278	522.958
57.5	499.538	490.342	467.692	450.252	442.913	450.252	467.692	490.342	499.538	490.342
60.0	467.088	457.364	432.977	412.925	405.405	412.925	432.977	457.364	467.088	457.364
62.5	434.397	424.657	398.791	375.401	367.307	375.401	398.791	424.657	434.397	424.657
65.0	402.113	391.528	363.940	337.545	328.999	337.545	363.940	391.528	402.113	391.528
67.5	370.237	358.987	329.059	299.569	290.781	299.569	329.059	358.987	370.237	358.987
70.0	338.482	326.235	294.571	261.985	252.064	261.985	294.571	326.235	338.482	326.235
72.5	307.058	294.405	260.973	225.111	213.091	225.111	260.973	294.405	307.058	294.405
75.0	276.677	263.706	228.508	189.339	174.933	189.339	228.508	263.706	276.677	263.706
77.5	248.033	234.231	197.568	155.122	138.271	155.122	197.568	234.231	248.033	234.231
80.0	220.611	206.281	168.440	123.050	103.269	123.050	168.440	206.281	220.611	206.281
82.5	194.563	180.234	141.623	93.982	70.517	93.982	141.623	180.234	194.563	180.234
85.0	170.449	156.481	117.871	68.962	41.389	68.962	117.871	156.481	170.449	156.481
87.5	149.112	135.387	97.486	49.090	16.731	49.090	97.486	135.387	149.112	135.387
90.0	130.524	117.146	80.830	35.198	3.080	35.198	80.830	117.146	130.524	117.146
92.5	126.462	114.715	81.178	39.653	9.181	39.653	81.178	114.715	126.462	114.715
95.0	117.569	106.712	76.240	40.528	13.983	40.528	76.240	106.712	117.569	106.712
97.5	111.015	101.261	74.307	44.364	19.494	44.364	74.307	101.261	111.015	101.261
100.0	106.983	98.301	74.836	49.845	24.537	49.845	74.836	98.301	106.983	98.301
102.5	104.839	97.365	77.146	55.900	28.282	55.900	77.146	97.365	104.839	97.365
105.0	104.537	98.090	80.815	62.106	31.634	62.106	80.815	98.090	104.537	98.090
107.5	105.579	100.128	85.466	68.343	34.851	68.343	85.466	100.128	105.579	100.128
110.0	107.769	103.163	90.600	74.488	37.946	74.488	90.600	103.163	107.769	103.163
112.5	110.925	107.134	95.930	80.619	40.951	80.619	95.930	107.134	110.925	107.134
115.0	114.835	111.680	101.261	86.749	43.941	86.749	101.261	111.680	114.835	111.680
117.5	119.109	116.270	106.546	92.789	46.810	92.789	106.546	116.270	119.109	116.270
120.0	123.261	120.755	111.725	98.663	49.588	98.663	111.725	120.755	123.261	120.755
122.5	127.429	125.179	116.753	104.205	52.306	104.205	116.753	125.179	127.429	125.179
125.0	131.370	129.482	121.600	110.019	54.904	110.019	121.600	129.482	131.370	129.482
127.5	135.266	133.665	126.266	115.032	57.410	115.032	126.266	133.665	135.266	133.665
130.0	138.920	137.712	130.766	116.572	59.841	116.572	130.766	137.712	138.920	137.712
132.5	142.423	141.578	135.039	117.131	62.106	117.131	135.039	141.578	142.423	141.578

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CANDELA TABULATION - (Cont.)

135.0	145.715	145.322	139.071	117.327	64.266	117.327	139.071	145.322	145.715	145.322
137.5	148.901	148.916	142.846	117.191	66.274	117.191	142.846	148.916	148.901	148.916
140.0	151.846	152.314	146.334	116.814	68.192	116.814	146.334	152.314	151.846	152.314
142.5	154.654	155.530	150.532	116.164	69.973	116.164	150.532	155.530	154.654	155.530
145.0	157.236	158.474	153.929	115.319	71.649	115.319	153.929	158.474	157.236	158.474
147.5	159.607	161.253	151.075	114.141	73.144	114.141	151.075	161.253	159.607	161.253
150.0	161.721	164.998	147.316	112.510	74.518	112.510	147.316	164.998	161.721	164.998
152.5	165.692	165.783	143.269	110.321	75.757	110.321	143.269	165.783	165.692	165.783
155.0	163.186	159.833	138.935	107.905	76.874	107.905	138.935	159.833	163.186	159.833
157.5	156.376	153.522	134.314	105.202	77.901	105.202	134.314	153.522	156.376	153.522
160.0	149.339	146.712	129.316	102.363	78.731	102.363	129.316	146.712	149.339	146.712
162.5	142.061	139.615	123.729	99.328	79.501	99.328	123.729	139.615	142.061	139.615
165.0	134.314	132.065	117.055	96.308	80.166	96.308	117.055	132.065	134.314	132.065
167.5	125.707	123.322	110.200	93.212	80.755	93.212	110.200	123.322	125.707	123.322
170.0	115.681	113.627	103.057	89.996	81.268	89.996	103.057	113.627	115.681	113.627
172.5	105.187	103.948	96.217	86.568	81.631	86.568	96.217	103.948	105.187	103.948
175.0	94.858	94.556	89.347	83.156	81.857	83.156	89.347	94.556	94.858	94.556
177.5	84.892	85.421	82.884	82.114	81.933	82.114	82.884	85.421	84.892	85.421
180.0	82.265	82.265	82.265	82.265	82.265	82.265	82.265	82.265	82.265	82.265

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	958.850	958.850	958.850	958.850	958.850	958.850	958.850
2.5	955.860	958.865	955.905	958.865	955.860	958.699	958.986
5.0	952.493	955.271	952.221	955.271	952.493	955.513	955.875
7.5	946.770	949.367	946.347	949.367	946.770	950.016	950.530
10.0	938.797	941.092	937.801	941.092	938.797	942.285	942.919
12.5	928.620	930.402	927.019	930.402	928.620	932.561	933.255
15.0	916.389	917.461	913.988	917.461	916.389	920.828	921.704
17.5	902.089	902.497	898.827	902.497	902.089	907.117	908.733
20.0	885.796	885.630	881.568	885.630	885.796	891.806	893.814
22.5	867.767	866.861	862.497	866.861	867.767	874.622	877.627
25.0	847.850	846.174	841.463	846.174	847.850	855.249	857.786
27.5	826.061	823.780	818.707	823.780	826.061	834.064	836.389
30.0	802.580	799.741	794.124	799.741	802.580	811.142	814.283
32.5	777.620	774.086	768.092	774.086	777.620	787.133	791.723
35.0	751.557	746.997	740.700	746.997	751.557	761.991	767.548
37.5	724.271	718.775	712.056	718.775	724.271	735.581	741.108
40.0	695.506	689.194	681.780	689.194	695.506	707.843	712.780
42.5	665.532	658.118	650.312	658.118	665.532	678.911	684.105
45.0	634.547	625.850	617.922	625.850	634.547	648.847	655.219
47.5	602.581	592.494	584.672	592.494	602.581	617.998	625.019
50.0	570.055	558.292	550.365	558.292	570.055	586.665	593.958
52.5	536.775	523.155	515.227	523.155	536.775	554.985	562.550
55.0	502.452	487.066	479.500	487.066	502.452	522.958	531.278
57.5	467.692	450.252	442.913	450.252	467.692	490.342	499.538
60.0	432.977	412.925	405.405	412.925	432.977	457.364	467.088
62.5	398.791	375.401	367.307	375.401	398.791	424.657	434.397
65.0	363.940	337.545	328.999	337.545	363.940	391.528	402.113
67.5	329.059	299.569	290.781	299.569	329.059	358.987	370.237
70.0	294.571	261.985	252.064	261.985	294.571	326.235	338.482
72.5	260.973	225.111	213.091	225.111	260.973	294.405	307.058
75.0	228.508	189.339	174.933	189.339	228.508	263.706	276.677
77.5	197.568	155.122	138.271	155.122	197.568	234.231	248.033
80.0	168.440	123.050	103.269	123.050	168.440	206.281	220.611

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CANDELA TABULATION - (Cont.)

82.5	141.623	93.982	70.517	93.982	141.623	180.234	194.563
85.0	117.871	68.962	41.389	68.962	117.871	156.481	170.449
87.5	97.486	49.090	16.731	49.090	97.486	135.387	149.112
90.0	80.830	35.198	3.080	35.198	80.830	117.146	130.524
92.5	81.178	39.653	9.181	39.653	81.178	114.715	126.462
95.0	76.240	40.528	13.983	40.528	76.240	106.712	117.569
97.5	74.307	44.364	19.494	44.364	74.307	101.261	111.015
100.0	74.836	49.845	24.537	49.845	74.836	98.301	106.983
102.5	77.146	55.900	28.282	55.900	77.146	97.365	104.839
105.0	80.815	62.106	31.634	62.106	80.815	98.090	104.537
107.5	85.466	68.343	34.851	68.343	85.466	100.128	105.579
110.0	90.600	74.488	37.946	74.488	90.600	103.163	107.769
112.5	95.930	80.619	40.951	80.619	95.930	107.134	110.925
115.0	101.261	86.749	43.941	86.749	101.261	111.680	114.835
117.5	106.546	92.789	46.810	92.789	106.546	116.270	119.109
120.0	111.725	98.663	49.588	98.663	111.725	120.755	123.261
122.5	116.753	104.205	52.306	104.205	116.753	125.179	127.429
125.0	121.600	110.019	54.904	110.019	121.600	129.482	131.370
127.5	126.266	115.032	57.410	115.032	126.266	133.665	135.266
130.0	130.766	116.572	59.841	116.572	130.766	137.712	138.920
132.5	135.039	117.131	62.106	117.131	135.039	141.578	142.423
135.0	139.071	117.327	64.266	117.327	139.071	145.322	145.715
137.5	142.846	117.191	66.274	117.191	142.846	148.916	148.901
140.0	146.334	116.814	68.192	116.814	146.334	152.314	151.846
142.5	150.532	116.164	69.973	116.164	150.532	155.530	154.654
145.0	153.929	115.319	71.649	115.319	153.929	158.474	157.236
147.5	151.075	114.141	73.144	114.141	151.075	161.253	159.607
150.0	147.316	112.510	74.518	112.510	147.316	164.998	161.721
152.5	143.269	110.321	75.757	110.321	143.269	165.783	165.692
155.0	138.935	107.905	76.874	107.905	138.935	159.833	163.186
157.5	134.314	105.202	77.901	105.202	134.314	153.522	156.376
160.0	129.316	102.363	78.731	102.363	129.316	146.712	149.339
162.5	123.729	99.328	79.501	99.328	123.729	139.615	142.061
165.0	117.055	96.308	80.166	96.308	117.055	132.065	134.314
167.5	110.200	93.212	80.755	93.212	110.200	123.322	125.707
170.0	103.057	89.996	81.268	89.996	103.057	113.627	115.681
172.5	96.217	86.568	81.631	86.568	96.217	103.948	105.187
175.0	89.347	83.156	81.857	83.156	89.347	94.556	94.858
177.5	82.884	82.114	81.933	82.114	82.884	85.421	84.892
180.0	82.265	82.265	82.265	82.265	82.265	82.265	82.265

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	349.74	N.A.	9.90
0-30	741.29	N.A.	21.00
0-40	1212.79	N.A.	34.40
0-60	2154.84	N.A.	61.10
0-80	2756.59	N.A.	78.20
0-90	2882.1	N.A.	81.80
10-90	2791.44	N.A.	79.20
20-40	863.06	N.A.	24.50
20-50	1354.08	N.A.	38.40
40-70	1303.17	N.A.	37.00
60-80	601.75	N.A.	17.10
70-80	240.63	N.A.	6.80
80-90	125.51	N.A.	3.60
90-110	162.22	N.A.	4.60
90-120	256.18	N.A.	7.30
90-130	357.67	N.A.	10.10
90-150	540.05	N.A.	15.30
90-180	642.00	N.A.	18.20
110-180	479.78	N.A.	13.60
0-180	3524.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.66
10-20	259.08
20-30	391.55
30-40	471.50
40-50	491.03
50-60	451.02
60-70	361.12
70-80	240.63
80-90	125.51
90-100	79.94
100-110	82.28
110-120	93.97
120-130	101.49
130-140	97.87
140-150	84.51
150-160	60.78
160-170	32.29
170-180	8.88

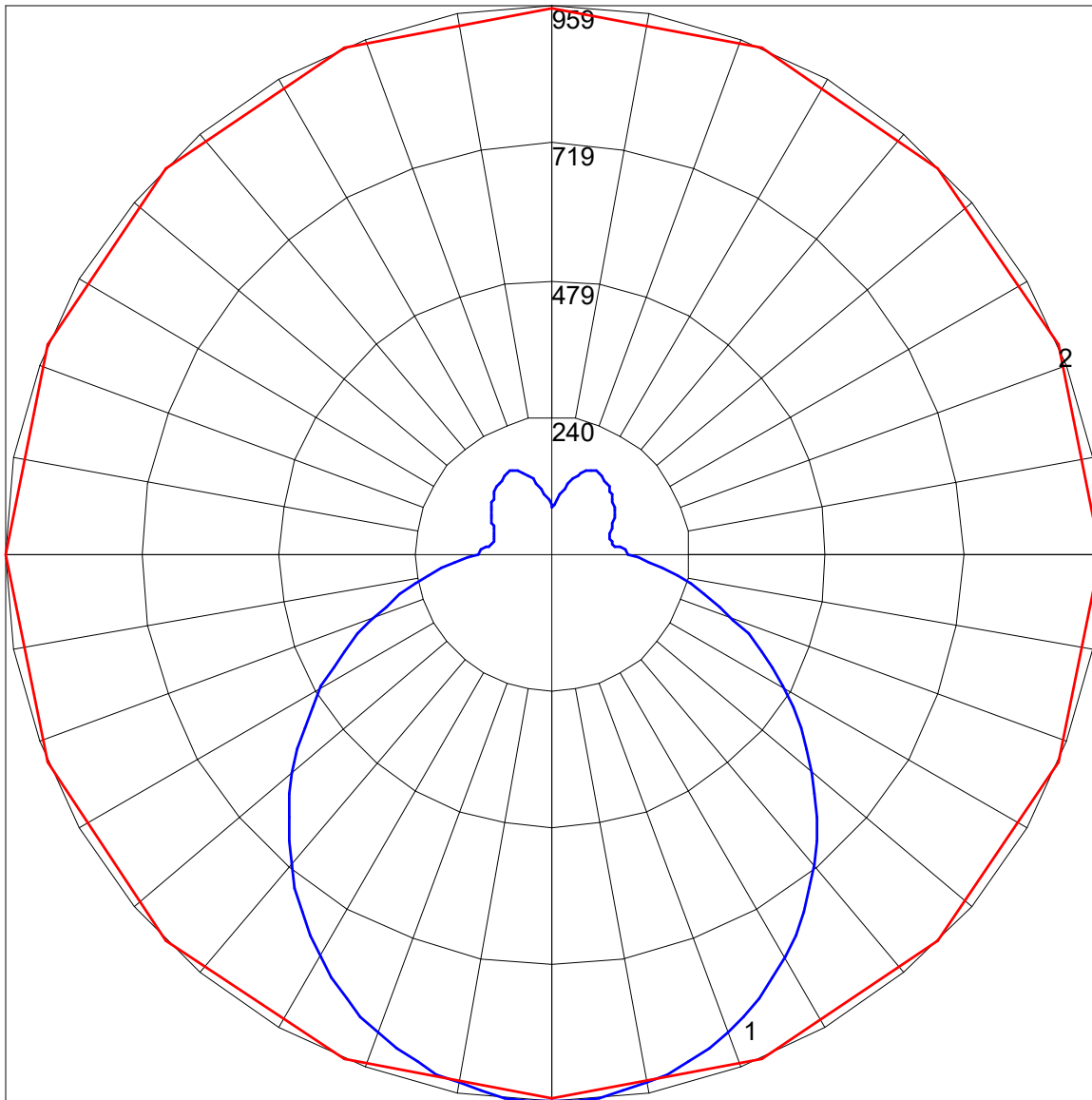
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 958.986 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.)