



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] FLAIR-LED35-LO-SAL  
 [TESTLAB] Intertek  
 [ISSUE DATE] 11/20/19  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1986
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
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	0.15 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3841	3122	3017
55	3630	2764	2695
65	3311	2354	2351
75	2753	1882	1982
85	1544	1404	1662

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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>	599.928	599.928	599.928	599.928	599.928	599.928	599.928	599.928	599.928	599.928
<b>2.5</b>	599.592	600.054	597.744	600.054	599.802	599.634	597.282	599.634	598.878	599.634
<b>5.0</b>	597.702	598.164	595.560	597.786	597.618	597.156	594.762	597.324	596.358	597.324
<b>7.5</b>	594.090	594.636	591.990	594.132	594.090	593.544	591.108	593.544	592.746	593.544
<b>10.0</b>	589.092	589.386	586.908	589.302	589.596	589.050	586.362	588.210	587.328	588.210
<b>12.5</b>	582.330	582.876	580.860	583.590	584.220	583.464	580.230	581.448	580.314	581.448
<b>15.0</b>	574.266	575.022	573.636	576.828	577.710	576.744	572.502	573.216	571.830	573.216
<b>17.5</b>	564.648	565.950	565.278	568.764	570.024	568.386	563.598	563.514	561.876	563.514
<b>20.0</b>	554.064	555.786	555.492	559.566	561.036	558.810	553.182	552.762	550.704	552.762
<b>22.5</b>	542.598	544.320	544.530	549.108	550.620	547.932	541.632	540.792	538.230	540.792
<b>25.0</b>	529.998	531.678	532.434	537.516	538.734	535.878	529.032	527.814	524.748	527.814
<b>27.5</b>	516.768	517.650	519.078	524.370	525.714	522.606	515.592	513.618	510.048	513.618
<b>30.0</b>	501.858	502.698	504.462	510.174	511.812	508.452	501.228	498.582	494.256	498.582
<b>32.5</b>	485.310	486.738	488.922	495.222	497.700	493.878	486.066	482.664	477.750	482.664
<b>35.0</b>	468.300	469.770	472.752	479.892	482.580	478.758	469.938	465.612	460.404	465.612
<b>37.5</b>	450.576	451.878	455.994	463.722	466.620	462.462	452.844	447.720	442.092	447.720
<b>40.0</b>	432.138	433.650	438.270	446.628	449.820	445.032	434.868	429.030	422.940	429.030
<b>42.5</b>	412.566	414.414	419.874	428.904	431.844	426.888	416.178	409.416	403.158	409.416
<b>45.0</b>	392.700	394.254	400.596	410.172	413.280	407.988	396.690	389.046	382.914	389.046
<b>47.5</b>	372.204	373.212	380.436	390.390	394.254	388.626	376.614	367.962	361.872	367.962
<b>50.0</b>	350.448	351.456	359.394	370.188	374.850	368.634	356.076	346.542	340.326	346.542
<b>52.5</b>	328.062	329.196	337.890	349.986	355.152	348.558	335.286	324.492	318.066	324.492
<b>55.0</b>	305.508	306.390	316.134	329.658	335.370	328.356	313.782	301.686	294.924	301.686
<b>57.5</b>	282.114	282.870	293.916	309.036	315.378	308.112	291.732	278.838	271.656	278.838
<b>60.0</b>	258.342	259.434	271.866	288.078	294.924	287.322	269.976	255.738	248.304	255.738
<b>62.5</b>	234.402	236.040	249.942	267.414	274.554	266.742	248.388	232.344	224.364	232.344
<b>65.0</b>	210.462	212.520	228.228	246.708	254.184	246.036	226.590	208.488	200.088	208.488
<b>67.5</b>	185.934	188.790	206.766	226.002	233.730	225.330	204.792	184.632	175.686	184.632
<b>70.0</b>	161.196	165.060	185.388	205.590	213.654	204.960	183.330	160.944	151.662	160.944
<b>72.5</b>	136.962	141.918	164.388	185.724	194.250	185.262	162.372	137.970	127.806	137.970
<b>75.0</b>	112.896	119.532	144.186	166.656	175.434	166.194	142.086	115.794	104.118	115.794
<b>77.5</b>	88.872	97.902	124.866	148.428	157.290	147.840	122.808	94.458	80.724	94.458
<b>80.0</b>	65.856	77.658	106.680	131.250	140.322	130.494	104.958	74.340	58.674	74.340
<b>82.5</b>	45.192	59.346	90.258	115.290	124.572	114.534	88.620	56.322	38.262	56.322
<b>85.0</b>	26.586	43.722	75.768	100.842	109.998	100.170	74.172	41.286	20.454	41.286
<b>87.5</b>	10.878	31.542	63.252	87.864	96.936	87.276	61.866	29.652	6.762	29.652
<b>90.0</b>	1.176	22.806	52.668	76.356	85.176	75.810	51.660	21.462	1.176	21.462
<b>92.5</b>	1.302	17.178	44.268	66.444	74.844	65.982	43.470	16.380	1.722	16.380
<b>95.0</b>	2.058	14.448	37.884	58.170	65.982	57.834	37.254	13.860	2.478	13.860
<b>97.5</b>	3.024	13.692	33.348	51.408	58.590	51.198	32.844	13.440	3.486	13.440
<b>100.0</b>	3.948	13.902	30.450	46.242	52.710	46.116	30.030	13.818	4.410	13.818
<b>102.5</b>	4.872	14.364	28.812	42.546	48.258	42.462	28.434	14.238	5.334	14.238
<b>105.0</b>	5.880	14.616	28.056	39.984	44.940	39.984	27.678	14.490	6.426	14.490
<b>107.5</b>	7.140	14.910	27.846	38.262	42.672	38.262	27.678	14.700	7.518	14.700
<b>110.0</b>	7.854	15.288	27.888	37.212	41.118	37.170	27.720	14.406	8.232	14.406
<b>112.5</b>	8.568	15.750	27.846	36.708	40.152	36.498	27.342	14.070	9.030	14.070
<b>115.0</b>	9.492	16.338	27.678	36.414	39.564	36.078	25.956	13.776	9.870	13.776
<b>117.5</b>	10.290	16.884	27.468	35.994	39.102	35.574	24.360	13.566	10.752	13.566
<b>120.0</b>	11.130	17.472	27.216	35.490	38.514	34.986	22.974	13.356	11.550	13.356
<b>122.5</b>	11.928	18.060	27.048	34.860	37.800	34.440	21.756	13.272	12.390	13.272
<b>125.0</b>	12.726	18.690	26.964	34.146	37.002	33.306	20.748	13.356	13.188	13.356
<b>127.5</b>	13.860	19.992	26.922	33.516	36.078	31.584	19.908	14.196	14.574	14.196
<b>130.0</b>	15.288	21.084	26.964	32.928	35.280	29.526	19.236	15.372	16.128	15.372
<b>132.5</b>	16.884	22.176	26.964	32.424	34.524	27.594	18.522	16.758	17.724	16.758

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**CANDELA TABULATION - (Cont.)**

135.0	18.480	23.310	27.048	31.962	33.810	25.830	17.892	18.270	19.320	18.270
137.5	20.118	24.486	27.048	31.626	33.096	24.192	17.472	19.866	20.874	19.866
140.0	21.672	25.536	27.006	31.164	32.508	22.554	17.682	21.420	22.386	21.420
142.5	23.184	26.586	27.468	30.870	31.878	21.252	18.480	22.974	23.856	22.974
145.0	24.696	27.804	28.518	30.408	31.458	20.076	19.866	24.528	25.368	24.528
147.5	26.166	29.022	29.274	29.988	30.786	19.068	21.084	26.082	26.754	26.082
150.0	27.468	30.156	30.198	30.366	30.156	18.480	22.470	27.510	28.098	27.510
152.5	28.770	31.164	31.164	31.164	30.114	18.228	24.024	28.854	29.442	28.854
155.0	30.030	31.962	32.088	31.836	29.778	18.312	25.578	30.072	30.660	30.072
157.5	31.206	32.550	32.886	32.592	29.526	18.900	27.090	31.038	31.752	31.038
160.0	32.088	33.012	33.768	33.348	29.274	19.824	28.602	31.836	32.634	31.836
162.5	32.970	33.474	34.524	33.936	29.064	21.000	29.988	32.592	33.390	32.592
165.0	33.726	33.978	34.986	34.692	27.426	22.890	30.912	33.306	34.104	33.306
167.5	34.356	34.440	35.154	35.028	24.402	24.822	31.584	33.936	34.608	33.936
170.0	34.986	35.028	35.238	34.902	21.756	26.376	32.256	34.524	35.070	34.524
172.5	35.574	35.448	35.406	34.524	19.110	27.804	33.054	35.028	35.490	35.028
175.0	35.910	35.742	35.448	33.936	18.900	29.316	33.726	35.322	35.700	35.322
177.5	36.078	35.826	35.280	33.012	18.900	30.576	34.272	35.406	35.742	35.406
180.0	32.340	32.340	32.340	32.340	32.340	32.340	32.340	32.340	32.340	32.340

**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	599.928	599.928	599.928	599.928	599.928	599.928	599.928
2.5	597.282	599.634	599.802	600.054	597.744	600.054	599.592
5.0	594.762	597.156	597.618	597.786	595.560	598.164	597.702
7.5	591.108	593.544	594.090	594.132	591.990	594.636	594.090
10.0	586.362	589.050	589.596	589.302	586.908	589.386	589.092
12.5	580.230	583.464	584.220	583.590	580.860	582.876	582.330
15.0	572.502	576.744	577.710	576.828	573.636	575.022	574.266
17.5	563.598	568.386	570.024	568.764	565.278	565.950	564.648
20.0	553.182	558.810	561.036	559.566	555.492	555.786	554.064
22.5	541.632	547.932	550.620	549.108	544.530	544.320	542.598
25.0	529.032	535.878	538.734	537.516	532.434	531.678	529.998
27.5	515.592	522.606	525.714	524.370	519.078	517.650	516.768
30.0	501.228	508.452	511.812	510.174	504.462	502.698	501.858
32.5	486.066	493.878	497.700	495.222	488.922	486.738	485.310
35.0	469.938	478.758	482.580	479.892	472.752	469.770	468.300
37.5	452.844	462.462	466.620	463.722	455.994	451.878	450.576
40.0	434.868	445.032	449.820	446.628	438.270	433.650	432.138
42.5	416.178	426.888	431.844	428.904	419.874	414.414	412.566
45.0	396.690	407.988	413.280	410.172	400.596	394.254	392.700
47.5	376.614	388.626	394.254	390.390	380.436	373.212	372.204
50.0	356.076	368.634	374.850	370.188	359.394	351.456	350.448
52.5	335.286	348.558	355.152	349.986	337.890	329.196	328.062
55.0	313.782	328.356	335.370	329.658	316.134	306.390	305.508
57.5	291.732	308.112	315.378	309.036	293.916	282.870	282.114
60.0	269.976	287.322	294.924	288.078	271.866	259.434	258.342
62.5	248.388	266.742	274.554	267.414	249.942	236.040	234.402
65.0	226.590	246.036	254.184	246.708	228.228	212.520	210.462
67.5	204.792	225.330	233.730	226.002	206.766	188.790	185.934
70.0	183.330	204.960	213.654	205.590	185.388	165.060	161.196
72.5	162.372	185.262	194.250	185.724	164.388	141.918	136.962
75.0	142.086	166.194	175.434	166.656	144.186	119.532	112.896
77.5	122.808	147.840	157.290	148.428	124.866	97.902	88.872
80.0	104.958	130.494	140.322	131.250	106.680	77.658	65.856

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**CANDELA TABULATION - (Cont.)**

82.5	88.620	114.534	124.572	115.290	90.258	59.346	45.192
85.0	74.172	100.170	109.998	100.842	75.768	43.722	26.586
87.5	61.866	87.276	96.936	87.864	63.252	31.542	10.878
90.0	51.660	75.810	85.176	76.356	52.668	22.806	1.176
92.5	43.470	65.982	74.844	66.444	44.268	17.178	1.302
95.0	37.254	57.834	65.982	58.170	37.884	14.448	2.058
97.5	32.844	51.198	58.590	51.408	33.348	13.692	3.024
100.0	30.030	46.116	52.710	46.242	30.450	13.902	3.948
102.5	28.434	42.462	48.258	42.546	28.812	14.364	4.872
105.0	27.678	39.984	44.940	39.984	28.056	14.616	5.880
107.5	27.678	38.262	42.672	38.262	27.846	14.910	7.140
110.0	27.720	37.170	41.118	37.212	27.888	15.288	7.854
112.5	27.342	36.498	40.152	36.708	27.846	15.750	8.568
115.0	25.956	36.078	39.564	36.414	27.678	16.338	9.492
117.5	24.360	35.574	39.102	35.994	27.468	16.884	10.290
120.0	22.974	34.986	38.514	35.490	27.216	17.472	11.130
122.5	21.756	34.440	37.800	34.860	27.048	18.060	11.928
125.0	20.748	33.306	37.002	34.146	26.964	18.690	12.726
127.5	19.908	31.584	36.078	33.516	26.922	19.992	13.860
130.0	19.236	29.526	35.280	32.928	26.964	21.084	15.288
132.5	18.522	27.594	34.524	32.424	26.964	22.176	16.884
135.0	17.892	25.830	33.810	31.962	27.048	23.310	18.480
137.5	17.472	24.192	33.096	31.626	27.048	24.486	20.118
140.0	17.682	22.554	32.508	31.164	27.006	25.536	21.672
142.5	18.480	21.252	31.878	30.870	27.468	26.586	23.184
145.0	19.866	20.076	31.458	30.408	28.518	27.804	24.696
147.5	21.084	19.068	30.786	29.988	29.274	29.022	26.166
150.0	22.470	18.480	30.156	30.366	30.198	30.156	27.468
152.5	24.024	18.228	30.114	31.164	31.164	31.164	28.770
155.0	25.578	18.312	29.778	31.836	32.088	31.962	30.030
157.5	27.090	18.900	29.526	32.592	32.886	32.550	31.206
160.0	28.602	19.824	29.274	33.348	33.768	33.012	32.088
162.5	29.988	21.000	29.064	33.936	34.524	33.474	32.970
165.0	30.912	22.890	27.426	34.692	34.986	33.978	33.726
167.5	31.584	24.822	24.402	35.028	35.154	34.440	34.356
170.0	32.256	26.376	21.756	34.902	35.238	35.028	34.986
172.5	33.054	27.804	19.110	34.524	35.406	35.448	35.574
175.0	33.726	29.316	18.900	33.936	35.448	35.742	35.910
177.5	34.272	30.576	18.900	33.012	35.280	35.826	36.078
180.0	32.340	32.340	32.340	32.340	32.340	32.340	32.340

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	218.91	N.A.	11.00
0-30	464.31	N.A.	23.40
0-40	760.21	N.A.	38.30
0-60	1351.67	N.A.	68.10
0-80	1728.78	N.A.	87.00
0-90	1808.31	N.A.	91.10
10-90	1751.61	N.A.	88.20
20-40	541.30	N.A.	27.30
20-50	849.81	N.A.	42.80
40-70	817.71	N.A.	41.20
60-80	377.10	N.A.	19.00
70-80	150.86	N.A.	7.60
80-90	79.54	N.A.	4.00
90-110	69.46	N.A.	3.50
90-120	94.94	N.A.	4.80
90-130	117.14	N.A.	5.90
90-150	152.53	N.A.	7.70
90-180	177.71	N.A.	8.90
110-180	108.25	N.A.	5.50
0-180	1986.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.71
10-20	162.20
20-30	245.40
30-40	295.90
40-50	308.52
50-60	282.95
60-70	226.25
70-80	150.86
80-90	79.54
90-100	40.52
100-110	28.94
110-120	25.48
120-130	22.20
130-140	19.10
140-150	16.29
150-160	13.26
160-170	8.86
170-180	3.06

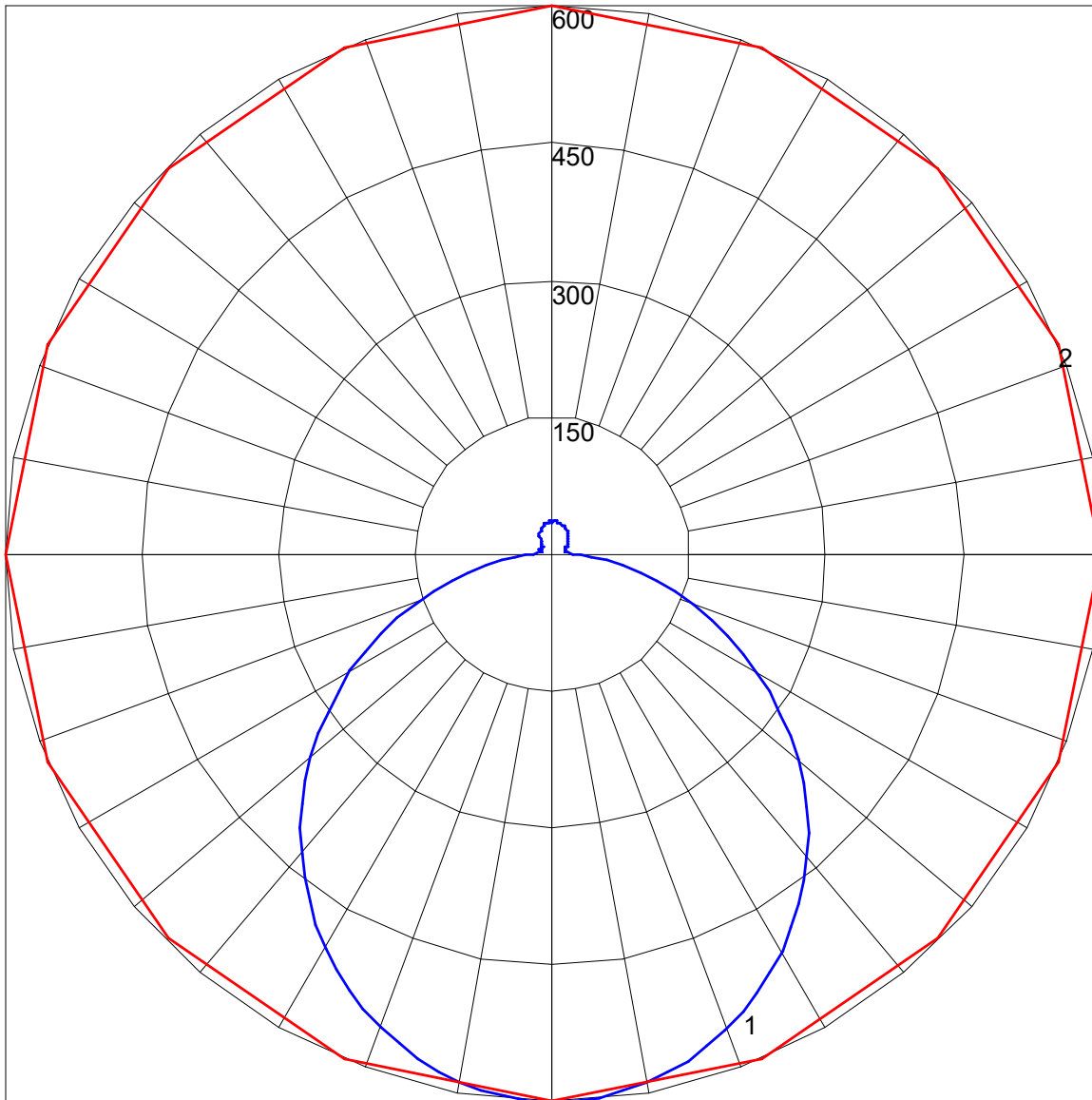
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	106	100	96	92	102	97	93	89	91	88	85	86	83	81	81	79	77	74
2	96	87	80	74	92	84	78	72	79	74	69	75	70	66	70	67	63	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	55	62	57	53	51
4	80	67	58	51	76	65	57	50	62	54	49	58	52	47	55	50	46	43
5	73	60	51	44	70	58	50	43	55	48	42	52	46	41	49	44	40	37
6	67	54	45	38	65	52	44	38	50	42	37	47	41	36	45	39	35	32
7	62	49	40	34	60	48	39	33	45	38	32	43	36	32	41	35	31	29
8	58	44	36	30	56	43	35	30	41	34	29	39	33	28	38	32	28	25
9	54	41	32	27	52	40	32	27	38	31	26	36	30	25	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	27	23	32	27	23	21

POLAR GRAPH



Maximum Candela = 600.054 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)