



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] 11/20/19
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	26
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	6402	5204	5028
55	6049	4607	4492
65	5519	3923	3919
75	4588	3136	3304
85	2573	2341	2770

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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	999.88	999.88	999.88	999.88	999.88	999.88	999.88	999.88	999.88	999.88
2.5	999.32	1000.09	996.24	1000.09	999.67	999.39	995.47	999.39	998.13	999.39
5.0	996.17	996.94	992.60	996.31	996.03	995.26	991.27	995.54	993.93	995.54
7.5	990.15	991.06	986.65	990.22	990.15	989.24	985.18	989.24	987.91	989.24
10.0	981.82	982.31	978.18	982.17	982.66	981.75	977.27	980.35	978.88	980.35
12.5	970.55	971.46	968.10	972.65	973.70	972.44	967.05	969.08	967.19	969.08
15.0	957.11	958.37	956.06	961.38	962.85	961.24	954.17	955.36	953.05	955.36
17.5	941.08	943.25	942.13	947.94	950.04	947.31	939.33	939.19	936.46	939.19
20.0	923.44	926.31	925.82	932.61	935.06	931.35	921.97	921.27	917.84	921.27
22.5	904.33	907.20	907.55	915.18	917.70	913.22	902.72	901.32	897.05	901.32
25.0	883.33	886.13	887.39	895.86	897.89	893.13	881.72	879.69	874.58	879.69
27.5	861.28	862.75	865.13	873.95	876.19	871.01	859.32	856.03	850.08	856.03
30.0	836.43	837.83	840.77	850.29	853.02	847.42	835.38	830.97	823.76	830.97
32.5	808.85	811.23	814.87	825.37	829.50	823.13	810.11	804.44	796.25	804.44
35.0	780.50	782.95	787.92	799.82	804.30	797.93	783.23	776.02	767.34	776.02
37.5	750.96	753.13	759.99	772.87	777.70	770.77	754.74	746.20	736.82	746.20
40.0	720.23	722.75	730.45	744.38	749.70	741.72	724.78	715.05	704.90	715.05
42.5	687.61	690.69	699.79	714.84	719.74	711.48	693.63	682.36	671.93	682.36
45.0	654.50	657.09	667.66	683.62	688.80	679.98	661.15	648.41	638.19	648.41
47.5	620.34	622.02	634.06	650.65	657.09	647.71	627.69	613.27	603.12	613.27
50.0	584.08	585.76	598.99	616.98	624.75	614.39	593.46	577.57	567.21	577.57
52.5	546.77	548.66	563.15	583.31	591.92	580.93	558.81	540.82	530.11	540.82
55.0	509.18	510.65	526.89	549.43	558.95	547.26	522.97	502.81	491.54	502.81
57.5	470.19	471.45	489.86	515.06	525.63	513.52	486.22	464.73	452.76	464.73
60.0	430.57	432.39	453.11	480.13	491.54	478.87	449.96	426.23	413.84	426.23
62.5	390.67	393.40	416.57	445.69	457.59	444.57	413.98	387.24	373.94	387.24
65.0	350.77	354.20	380.38	411.18	423.64	410.06	377.65	347.48	333.48	347.48
67.5	309.89	314.65	344.61	376.67	389.55	375.55	341.32	307.72	292.81	307.72
70.0	268.66	275.10	308.98	342.65	356.09	341.60	305.55	268.24	252.77	268.24
72.5	228.27	236.53	273.98	309.54	323.75	308.77	270.62	229.95	213.01	229.95
75.0	188.16	199.22	240.31	277.76	292.39	276.99	236.81	192.99	173.53	192.99
77.5	148.12	163.17	208.11	247.38	262.15	246.40	204.68	157.43	134.54	157.43
80.0	109.76	129.43	177.80	218.75	233.87	217.49	174.93	123.90	97.79	123.90
82.5	75.32	98.91	150.43	192.15	207.62	190.89	147.70	93.87	63.77	93.87
85.0	44.31	72.87	126.28	168.07	183.33	166.95	123.62	68.81	34.09	68.81
87.5	18.13	52.57	105.42	146.44	161.56	145.46	103.11	49.42	11.27	49.42
90.0	1.96	38.01	87.78	127.26	141.96	126.35	86.10	35.77	1.96	35.77
92.5	2.17	28.63	73.78	110.74	124.74	109.97	72.45	27.30	2.87	27.30
95.0	3.43	24.08	63.14	96.95	109.97	96.39	62.09	23.10	4.13	23.10
97.5	5.04	22.82	55.58	85.68	97.65	85.33	54.74	22.40	5.81	22.40
100.0	6.58	23.17	50.75	77.07	87.85	76.86	50.05	23.03	7.35	23.03
102.5	8.12	23.94	48.02	70.91	80.43	70.77	47.39	23.73	8.89	23.73
105.0	9.80	24.36	46.76	66.64	74.90	66.64	46.13	24.15	10.71	24.15
107.5	11.90	24.85	46.41	63.77	71.12	63.77	46.13	24.50	12.53	24.50
110.0	13.09	25.48	46.48	62.02	68.53	61.95	46.20	24.01	13.72	24.01
112.5	14.28	26.25	46.41	61.18	66.92	60.83	45.57	23.45	15.05	23.45
115.0	15.82	27.23	46.13	60.69	65.94	60.13	43.26	22.96	16.45	22.96
117.5	17.15	28.14	45.78	59.99	65.17	59.29	40.60	22.61	17.92	22.61
120.0	18.55	29.12	45.36	59.15	64.19	58.31	38.29	22.26	19.25	22.26
122.5	19.88	30.10	45.08	58.10	63.00	57.40	36.26	22.12	20.65	22.12
125.0	21.21	31.15	44.94	56.91	61.67	55.51	34.58	22.26	21.98	22.26
127.5	23.10	33.32	44.87	55.86	60.13	52.64	33.18	23.66	24.29	23.66
130.0	25.48	35.14	44.94	54.88	58.80	49.21	32.06	25.62	26.88	25.62
132.5	28.14	36.96	44.94	54.04	57.54	45.99	30.87	27.93	29.54	27.93

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CANDELA TABULATION - (Cont.)

135.0	30.80	38.85	45.08	53.27	56.35	43.05	29.82	30.45	32.20	30.45
137.5	33.53	40.81	45.08	52.71	55.16	40.32	29.12	33.11	34.79	33.11
140.0	36.12	42.56	45.01	51.94	54.18	37.59	29.47	35.70	37.31	35.70
142.5	38.64	44.31	45.78	51.45	53.13	35.42	30.80	38.29	39.76	38.29
145.0	41.16	46.34	47.53	50.68	52.43	33.46	33.11	40.88	42.28	40.88
147.5	43.61	48.37	48.79	49.98	51.31	31.78	35.14	43.47	44.59	43.47
150.0	45.78	50.26	50.33	50.61	50.26	30.80	37.45	45.85	46.83	45.85
152.5	47.95	51.94	51.94	51.94	50.19	30.38	40.04	48.09	49.07	48.09
155.0	50.05	53.27	53.48	53.06	49.63	30.52	42.63	50.12	51.10	50.12
157.5	52.01	54.25	54.81	54.32	49.21	31.50	45.15	51.73	52.92	51.73
160.0	53.48	55.02	56.28	55.58	48.79	33.04	47.67	53.06	54.39	53.06
162.5	54.95	55.79	57.54	56.56	48.44	35.00	49.98	54.32	55.65	54.32
165.0	56.21	56.63	58.31	57.82	45.71	38.15	51.52	55.51	56.84	55.51
167.5	57.26	57.40	58.59	58.38	40.67	41.37	52.64	56.56	57.68	56.56
170.0	58.31	58.38	58.73	58.17	36.26	43.96	53.76	57.54	58.45	57.54
172.5	59.29	59.08	59.01	57.54	31.85	46.34	55.09	58.38	59.15	58.38
175.0	59.85	59.57	59.08	56.56	31.50	48.86	56.21	58.87	59.50	58.87
177.5	60.13	59.71	58.80	55.02	31.50	50.96	57.12	59.01	59.57	59.01
180.0	53.90	53.90	53.90	53.90	53.90	53.90	53.90	53.90	53.90	53.90

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	999.88	999.88	999.88	999.88	999.88	999.88	999.88
2.5	995.47	999.39	999.67	1000.09	996.24	1000.09	999.32
5.0	991.27	995.26	996.03	996.31	992.60	996.94	996.17
7.5	985.18	989.24	990.15	990.22	986.65	991.06	990.15
10.0	977.27	981.75	982.66	982.17	978.18	982.31	981.82
12.5	967.05	972.44	973.70	972.65	968.10	971.46	970.55
15.0	954.17	961.24	962.85	961.38	956.06	958.37	957.11
17.5	939.33	947.31	950.04	947.94	942.13	943.25	941.08
20.0	921.97	931.35	935.06	932.61	925.82	926.31	923.44
22.5	902.72	913.22	917.70	915.18	907.55	907.20	904.33
25.0	881.72	893.13	897.89	895.86	887.39	886.13	883.33
27.5	859.32	871.01	876.19	873.95	865.13	862.75	861.28
30.0	835.38	847.42	853.02	850.29	840.77	837.83	836.43
32.5	810.11	823.13	829.50	825.37	814.87	811.23	808.85
35.0	783.23	797.93	804.30	799.82	787.92	782.95	780.50
37.5	754.74	770.77	777.70	772.87	759.99	753.13	750.96
40.0	724.78	741.72	749.70	744.38	730.45	722.75	720.23
42.5	693.63	711.48	719.74	714.84	699.79	690.69	687.61
45.0	661.15	679.98	688.80	683.62	667.66	657.09	654.50
47.5	627.69	647.71	657.09	650.65	634.06	622.02	620.34
50.0	593.46	614.39	624.75	616.98	598.99	585.76	584.08
52.5	558.81	580.93	591.92	583.31	563.15	548.66	546.77
55.0	522.97	547.26	558.95	549.43	526.89	510.65	509.18
57.5	486.22	513.52	525.63	515.06	489.86	471.45	470.19
60.0	449.96	478.87	491.54	480.13	453.11	432.39	430.57
62.5	413.98	444.57	457.59	445.69	416.57	393.40	390.67
65.0	377.65	410.06	423.64	411.18	380.38	354.20	350.77
67.5	341.32	375.55	389.55	376.67	344.61	314.65	309.89
70.0	305.55	341.60	356.09	342.65	308.98	275.10	268.66
72.5	270.62	308.77	323.75	309.54	273.98	236.53	228.27
75.0	236.81	276.99	292.39	277.76	240.31	199.22	188.16
77.5	204.68	246.40	262.15	247.38	208.11	163.17	148.12
80.0	174.93	217.49	233.87	218.75	177.80	129.43	109.76

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CANDELA TABULATION - (Cont.)

82.5	147.70	190.89	207.62	192.15	150.43	98.91	75.32
85.0	123.62	166.95	183.33	168.07	126.28	72.87	44.31
87.5	103.11	145.46	161.56	146.44	105.42	52.57	18.13
90.0	86.10	126.35	141.96	127.26	87.78	38.01	1.96
92.5	72.45	109.97	124.74	110.74	73.78	28.63	2.17
95.0	62.09	96.39	109.97	96.95	63.14	24.08	3.43
97.5	54.74	85.33	97.65	85.68	55.58	22.82	5.04
100.0	50.05	76.86	87.85	77.07	50.75	23.17	6.58
102.5	47.39	70.77	80.43	70.91	48.02	23.94	8.12
105.0	46.13	66.64	74.90	66.64	46.76	24.36	9.80
107.5	46.13	63.77	71.12	63.77	46.41	24.85	11.90
110.0	46.20	61.95	68.53	62.02	46.48	25.48	13.09
112.5	45.57	60.83	66.92	61.18	46.41	26.25	14.28
115.0	43.26	60.13	65.94	60.69	46.13	27.23	15.82
117.5	40.60	59.29	65.17	59.99	45.78	28.14	17.15
120.0	38.29	58.31	64.19	59.15	45.36	29.12	18.55
122.5	36.26	57.40	63.00	58.10	45.08	30.10	19.88
125.0	34.58	55.51	61.67	56.91	44.94	31.15	21.21
127.5	33.18	52.64	60.13	55.86	44.87	33.32	23.10
130.0	32.06	49.21	58.80	54.88	44.94	35.14	25.48
132.5	30.87	45.99	57.54	54.04	44.94	36.96	28.14
135.0	29.82	43.05	56.35	53.27	45.08	38.85	30.80
137.5	29.12	40.32	55.16	52.71	45.08	40.81	33.53
140.0	29.47	37.59	54.18	51.94	45.01	42.56	36.12
142.5	30.80	35.42	53.13	51.45	45.78	44.31	38.64
145.0	33.11	33.46	52.43	50.68	47.53	46.34	41.16
147.5	35.14	31.78	51.31	49.98	48.79	48.37	43.61
150.0	37.45	30.80	50.26	50.61	50.33	50.26	45.78
152.5	40.04	30.38	50.19	51.94	51.94	51.94	47.95
155.0	42.63	30.52	49.63	53.06	53.48	53.27	50.05
157.5	45.15	31.50	49.21	54.32	54.81	54.25	52.01
160.0	47.67	33.04	48.79	55.58	56.28	55.02	53.48
162.5	49.98	35.00	48.44	56.56	57.54	55.79	54.95
165.0	51.52	38.15	45.71	57.82	58.31	56.63	56.21
167.5	52.64	41.37	40.67	58.38	58.59	57.40	57.26
170.0	53.76	43.96	36.26	58.17	58.73	58.38	58.31
172.5	55.09	46.34	31.85	57.54	59.01	59.08	59.29
175.0	56.21	48.86	31.50	56.56	59.08	59.57	59.85
177.5	57.12	50.96	31.50	55.02	58.80	59.71	60.13
180.0	53.90	53.90	53.90	53.90	53.90	53.90	53.90

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	364.85	N.A.	11.00
0-30	773.85	N.A.	23.40
0-40	1267.02	N.A.	38.30
0-60	2252.79	N.A.	68.10
0-80	2881.29	N.A.	87.00
0-90	3013.86	N.A.	91.10
10-90	2919.34	N.A.	88.20
20-40	902.16	N.A.	27.30
20-50	1416.36	N.A.	42.80
40-70	1362.85	N.A.	41.20
60-80	628.51	N.A.	19.00
70-80	251.43	N.A.	7.60
80-90	132.56	N.A.	4.00
90-110	115.77	N.A.	3.50
90-120	158.23	N.A.	4.80
90-130	195.24	N.A.	5.90
90-150	254.22	N.A.	7.70
90-180	296.18	N.A.	8.90
110-180	180.41	N.A.	5.50
0-180	3310.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.51
10-20	270.34
20-30	409.00
30-40	493.16
40-50	514.20
50-60	471.58
60-70	377.08
70-80	251.43
80-90	132.56
90-100	67.54
100-110	48.23
110-120	42.47
120-130	37.00
130-140	31.84
140-150	27.14
150-160	22.10
160-170	14.76
170-180	5.11

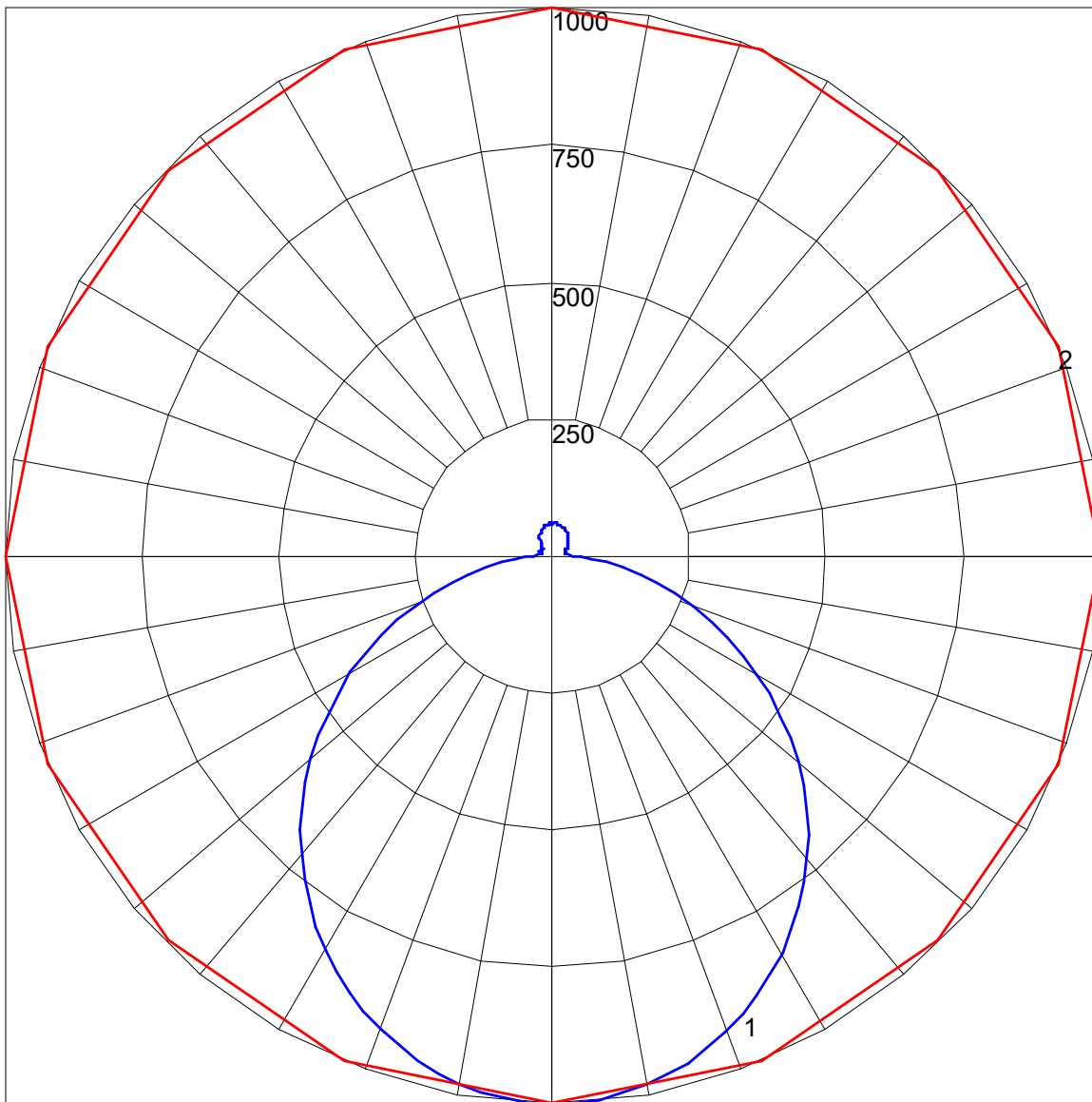
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1000.09 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.)