



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] 11/20/19
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	50
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	11616	9442	9123
55	10975	8358	8149
65	10013	7117	7109
75	8323	5690	5994
85	4668	4247	5025

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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	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068
2.5	1813.052	1814.449	1807.464	1814.449	1813.687	1813.179	1806.067	1813.179	1810.893	1813.179
5.0	1807.337	1808.734	1800.860	1807.591	1807.083	1805.686	1798.447	1806.194	1803.273	1806.194
7.5	1796.415	1798.066	1790.065	1796.542	1796.415	1794.764	1787.398	1794.764	1792.351	1794.764
10.0	1781.302	1782.191	1774.698	1781.937	1782.826	1781.175	1773.047	1778.635	1775.968	1778.635
12.5	1760.855	1762.506	1756.410	1764.665	1766.570	1764.284	1754.505	1758.188	1754.759	1758.188
15.0	1736.471	1738.757	1734.566	1744.218	1746.885	1743.964	1731.137	1733.296	1729.105	1733.296
17.5	1707.388	1711.325	1709.293	1719.834	1723.644	1718.691	1704.213	1703.959	1699.006	1703.959
20.0	1675.384	1680.591	1679.702	1692.021	1696.466	1689.735	1672.717	1671.447	1665.224	1671.447
22.5	1640.713	1645.920	1646.555	1660.398	1664.970	1656.842	1637.792	1635.252	1627.505	1635.252
25.0	1602.613	1607.693	1609.979	1625.346	1629.029	1620.393	1599.692	1596.009	1586.738	1596.009
27.5	1562.608	1565.275	1569.593	1585.595	1589.659	1580.261	1559.052	1553.083	1542.288	1553.083
30.0	1517.523	1520.063	1525.397	1542.669	1547.622	1537.462	1515.618	1507.617	1494.536	1507.617
32.5	1467.485	1471.803	1478.407	1497.457	1504.950	1493.393	1469.771	1459.484	1444.625	1459.484
35.0	1416.050	1420.495	1429.512	1451.102	1459.230	1447.673	1421.003	1407.922	1392.174	1407.922
37.5	1362.456	1366.393	1378.839	1402.207	1410.970	1398.397	1369.314	1353.820	1336.802	1353.820
40.0	1306.703	1311.275	1325.245	1350.518	1360.170	1345.692	1314.958	1297.305	1278.890	1297.305
42.5	1247.521	1253.109	1269.619	1296.924	1305.814	1290.828	1258.443	1237.996	1219.073	1237.996
45.0	1187.450	1192.149	1211.326	1240.282	1249.680	1233.678	1199.515	1176.401	1157.859	1176.401
47.5	1125.474	1128.522	1150.366	1180.465	1192.149	1175.131	1138.809	1112.647	1094.232	1112.647
50.0	1059.688	1062.736	1086.739	1119.378	1133.475	1114.679	1076.706	1047.877	1029.081	1047.877
52.5	991.997	995.426	1021.715	1058.291	1073.912	1053.973	1013.841	981.202	961.771	981.202
55.0	923.798	926.465	955.929	996.823	1014.095	992.886	948.817	912.241	891.794	912.241
57.5	853.059	855.345	888.746	934.466	953.643	931.672	882.142	843.153	821.436	843.153
60.0	781.177	784.479	822.071	871.093	891.794	868.807	816.356	773.303	750.824	773.303
62.5	708.787	713.740	755.777	808.609	830.199	806.577	751.078	702.564	678.434	702.564
65.0	636.397	642.620	690.118	745.998	768.604	743.966	685.165	630.428	605.028	630.428
67.5	562.229	570.865	625.221	683.387	706.755	681.355	619.252	558.292	531.241	558.292
70.0	487.426	499.110	560.578	621.665	646.049	619.760	554.355	486.664	458.597	486.664
72.5	414.147	429.133	497.078	561.594	587.375	560.197	490.982	417.195	386.461	417.195
75.0	341.376	361.442	435.991	503.936	530.479	502.539	429.641	350.139	314.833	350.139
77.5	268.732	296.037	377.571	448.818	475.615	447.040	371.348	285.623	244.094	285.623
80.0	199.136	234.823	322.580	396.875	424.307	394.589	317.373	224.790	177.419	224.790
82.5	136.652	179.451	272.923	348.615	376.682	346.329	267.970	170.307	115.697	170.307
85.0	80.391	132.207	229.108	304.927	332.613	302.895	224.282	124.841	61.849	124.841
87.5	32.893	95.377	191.262	265.684	293.116	263.906	187.071	89.662	20.447	89.662
90.0	3.556	68.961	159.258	230.886	257.556	229.235	156.210	64.897	3.556	64.897
92.5	3.937	51.943	133.858	200.914	226.314	199.517	131.445	49.530	5.207	49.530
95.0	6.223	43.688	114.554	175.895	199.517	174.879	112.649	41.910	7.493	41.910
97.5	9.144	41.402	100.838	155.448	177.165	154.813	99.314	40.640	10.541	40.640
100.0	11.938	42.037	92.075	139.827	159.385	139.446	90.805	41.783	13.335	41.783
102.5	14.732	43.434	87.122	128.651	145.923	128.397	85.979	43.053	16.129	43.053
105.0	17.780	44.196	84.836	120.904	135.890	120.904	83.693	43.815	19.431	43.815
107.5	21.590	45.085	84.201	115.697	129.032	115.697	83.693	44.450	22.733	44.450
110.0	23.749	46.228	84.328	112.522	124.333	112.395	83.820	43.561	24.892	43.561
112.5	25.908	47.625	84.201	110.998	121.412	110.363	82.677	42.545	27.305	42.545
115.0	28.702	49.403	83.693	110.109	119.634	109.093	78.486	41.656	29.845	41.656
117.5	31.115	51.054	83.058	108.839	118.237	107.569	73.660	41.021	32.512	41.021
120.0	33.655	52.832	82.296	107.315	116.459	105.791	69.469	40.386	34.925	40.386
122.5	36.068	54.610	81.788	105.410	114.300	104.140	65.786	40.132	37.465	40.132
125.0	38.481	56.515	81.534	103.251	111.887	100.711	62.738	40.386	39.878	40.386
127.5	41.910	60.452	81.407	101.346	109.093	95.504	60.198	42.926	44.069	42.926
130.0	46.228	63.754	81.534	99.568	106.680	89.281	58.166	46.482	48.768	46.482
132.5	51.054	67.056	81.534	98.044	104.394	83.439	56.007	50.673	53.594	50.673

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CANDELA TABULATION - (Cont.)

135.0	55.880	70.485	81.788	96.647	102.235	78.105	54.102	55.245	58.420	55.245
137.5	60.833	74.041	81.788	95.631	100.076	73.152	52.832	60.071	63.119	60.071
140.0	65.532	77.216	81.661	94.234	98.298	68.199	53.467	64.770	67.691	64.770
142.5	70.104	80.391	83.058	93.345	96.393	64.262	55.880	69.469	72.136	69.469
145.0	74.676	84.074	86.233	91.948	95.123	60.706	60.071	74.168	76.708	74.168
147.5	79.121	87.757	88.519	90.678	93.091	57.658	63.754	78.867	80.899	78.867
150.0	83.058	91.186	91.313	91.821	91.186	55.880	67.945	83.185	84.963	83.185
152.5	86.995	94.234	94.234	94.234	91.059	55.118	72.644	87.249	89.027	87.249
155.0	90.805	96.647	97.028	96.266	90.043	55.372	77.343	90.932	92.710	90.932
157.5	94.361	98.425	99.441	98.552	89.281	57.150	81.915	93.853	96.012	93.853
160.0	97.028	99.822	102.108	100.838	88.519	59.944	86.487	96.266	98.679	96.266
162.5	99.695	101.219	104.394	102.616	87.884	63.500	90.678	98.552	100.965	98.552
165.0	101.981	102.743	105.791	104.902	82.931	69.215	93.472	100.711	103.124	100.711
167.5	103.886	104.140	106.299	105.918	73.787	75.057	95.504	102.616	104.648	102.616
170.0	105.791	105.918	106.553	105.537	65.786	79.756	97.536	104.394	106.045	104.394
172.5	107.569	107.188	107.061	104.394	57.785	84.074	99.949	105.918	107.315	105.918
175.0	108.585	108.077	107.188	102.616	57.150	88.646	101.981	106.807	107.950	106.807
177.5	109.093	108.331	106.680	99.822	57.150	92.456	103.632	107.061	108.077	107.061
180.0	97.790	97.790	97.790	97.790	97.790	97.790	97.790	97.790	97.790	97.790

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	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068	1814.068
2.5	1806.067	1813.179	1813.687	1814.449	1807.464	1814.449	1813.052
5.0	1798.447	1805.686	1807.083	1807.591	1800.860	1808.734	1807.337
7.5	1787.398	1794.764	1796.415	1796.542	1790.065	1798.066	1796.415
10.0	1773.047	1781.175	1782.826	1781.937	1774.698	1782.191	1781.302
12.5	1754.505	1764.284	1766.570	1764.665	1756.410	1762.506	1760.855
15.0	1731.137	1743.964	1746.885	1744.218	1734.566	1738.757	1736.471
17.5	1704.213	1718.691	1723.644	1719.834	1709.293	1711.325	1707.388
20.0	1672.717	1689.735	1696.466	1692.021	1679.702	1680.591	1675.384
22.5	1637.792	1656.842	1664.970	1660.398	1646.555	1645.920	1640.713
25.0	1599.692	1620.393	1629.029	1625.346	1609.979	1607.693	1602.613
27.5	1559.052	1580.261	1589.659	1585.595	1569.593	1565.275	1562.608
30.0	1515.618	1537.462	1547.622	1542.669	1525.397	1520.063	1517.523
32.5	1469.771	1493.393	1504.950	1497.457	1478.407	1471.803	1467.485
35.0	1421.003	1447.673	1459.230	1451.102	1429.512	1420.495	1416.050
37.5	1369.314	1398.397	1410.970	1402.207	1378.839	1366.393	1362.456
40.0	1314.958	1345.692	1360.170	1350.518	1325.245	1311.275	1306.703
42.5	1258.443	1290.828	1305.814	1296.924	1269.619	1253.109	1247.521
45.0	1199.515	1233.678	1249.680	1240.282	1211.326	1192.149	1187.450
47.5	1138.809	1175.131	1192.149	1180.465	1150.366	1128.522	1125.474
50.0	1076.706	1114.679	1133.475	1119.378	1086.739	1062.736	1059.688
52.5	1013.841	1053.973	1073.912	1058.291	1021.715	995.426	991.997
55.0	948.817	992.886	1014.095	996.823	955.929	926.465	923.798
57.5	882.142	931.672	953.643	934.466	888.746	855.345	853.059
60.0	816.356	868.807	891.794	871.093	822.071	784.479	781.177
62.5	751.078	806.577	830.199	808.609	755.777	713.740	708.787
65.0	685.165	743.966	768.604	745.998	690.118	642.620	636.397
67.5	619.252	681.355	706.755	683.387	625.221	570.865	562.229
70.0	554.355	619.760	646.049	621.665	560.578	499.110	487.426
72.5	490.982	560.197	587.375	561.594	497.078	429.133	414.147
75.0	429.641	502.539	530.479	503.936	435.991	361.442	341.376
77.5	371.348	447.040	475.615	448.818	377.571	296.037	268.732
80.0	317.373	394.589	424.307	396.875	322.580	234.823	199.136

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CANDELA TABULATION - (Cont.)

82.5	267.970	346.329	376.682	348.615	272.923	179.451	136.652
85.0	224.282	302.895	332.613	304.927	229.108	132.207	80.391
87.5	187.071	263.906	293.116	265.684	191.262	95.377	32.893
90.0	156.210	229.235	257.556	230.886	159.258	68.961	3.556
92.5	131.445	199.517	226.314	200.914	133.858	51.943	3.937
95.0	112.649	174.879	199.517	175.895	114.554	43.688	6.223
97.5	99.314	154.813	177.165	155.448	100.838	41.402	9.144
100.0	90.805	139.446	159.385	139.827	92.075	42.037	11.938
102.5	85.979	128.397	145.923	128.651	87.122	43.434	14.732
105.0	83.693	120.904	135.890	120.904	84.836	44.196	17.780
107.5	83.693	115.697	129.032	115.697	84.201	45.085	21.590
110.0	83.820	112.395	124.333	112.522	84.328	46.228	23.749
112.5	82.677	110.363	121.412	110.998	84.201	47.625	25.908
115.0	78.486	109.093	119.634	110.109	83.693	49.403	28.702
117.5	73.660	107.569	118.237	108.839	83.058	51.054	31.115
120.0	69.469	105.791	116.459	107.315	82.296	52.832	33.655
122.5	65.786	104.140	114.300	105.410	81.788	54.610	36.068
125.0	62.738	100.711	111.887	103.251	81.534	56.515	38.481
127.5	60.198	95.504	109.093	101.346	81.407	60.452	41.910
130.0	58.166	89.281	106.680	99.568	81.534	63.754	46.228
132.5	56.007	83.439	104.394	98.044	81.534	67.056	51.054
135.0	54.102	78.105	102.235	96.647	81.788	70.485	55.880
137.5	52.832	73.152	100.076	95.631	81.788	74.041	60.833
140.0	53.467	68.199	98.298	94.234	81.661	77.216	65.532
142.5	55.880	64.262	96.393	93.345	83.058	80.391	70.104
145.0	60.071	60.706	95.123	91.948	86.233	84.074	74.676
147.5	63.754	57.658	93.091	90.678	88.519	87.757	79.121
150.0	67.945	55.880	91.186	91.821	91.313	91.186	83.058
152.5	72.644	55.118	91.059	94.234	94.234	94.234	86.995
155.0	77.343	55.372	90.043	96.266	97.028	96.647	90.805
157.5	81.915	57.150	89.281	98.552	99.441	98.425	94.361
160.0	86.487	59.944	88.519	100.838	102.108	99.822	97.028
162.5	90.678	63.500	87.884	102.616	104.394	101.219	99.695
165.0	93.472	69.215	82.931	104.902	105.791	102.743	101.981
167.5	95.504	75.057	73.787	105.918	106.299	104.140	103.886
170.0	97.536	79.756	65.786	105.537	106.553	105.918	105.791
172.5	99.949	84.074	57.785	104.394	107.061	107.188	107.569
175.0	101.981	88.646	57.150	102.616	107.188	108.077	108.585
177.5	103.632	92.456	57.150	99.822	106.680	108.331	109.093
180.0	97.790	97.790	97.790	97.790	97.790	97.790	97.790

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	661.95	N.A.	11.00
0-30	1403.99	N.A.	23.40
0-40	2298.73	N.A.	38.30
0-60	4087.2	N.A.	68.10
0-80	5227.49	N.A.	87.00
0-90	5467.99	N.A.	91.10
10-90	5296.52	N.A.	88.20
20-40	1636.78	N.A.	27.30
20-50	2569.68	N.A.	42.80
40-70	2472.6	N.A.	41.20
60-80	1140.29	N.A.	19.00
70-80	456.17	N.A.	7.60
80-90	240.50	N.A.	4.00
90-110	210.04	N.A.	3.50
90-120	287.08	N.A.	4.80
90-130	354.22	N.A.	5.90
90-150	461.23	N.A.	7.70
90-180	537.36	N.A.	8.90
110-180	327.32	N.A.	5.50
0-180	6005.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	171.47
10-20	490.48
20-30	742.04
30-40	894.74
40-50	932.90
50-60	855.57
60-70	684.12
70-80	456.17
80-90	240.50
90-100	122.53
100-110	87.50
110-120	77.04
120-130	67.14
130-140	57.77
140-150	49.25
150-160	40.09
160-170	26.78
170-180	9.27

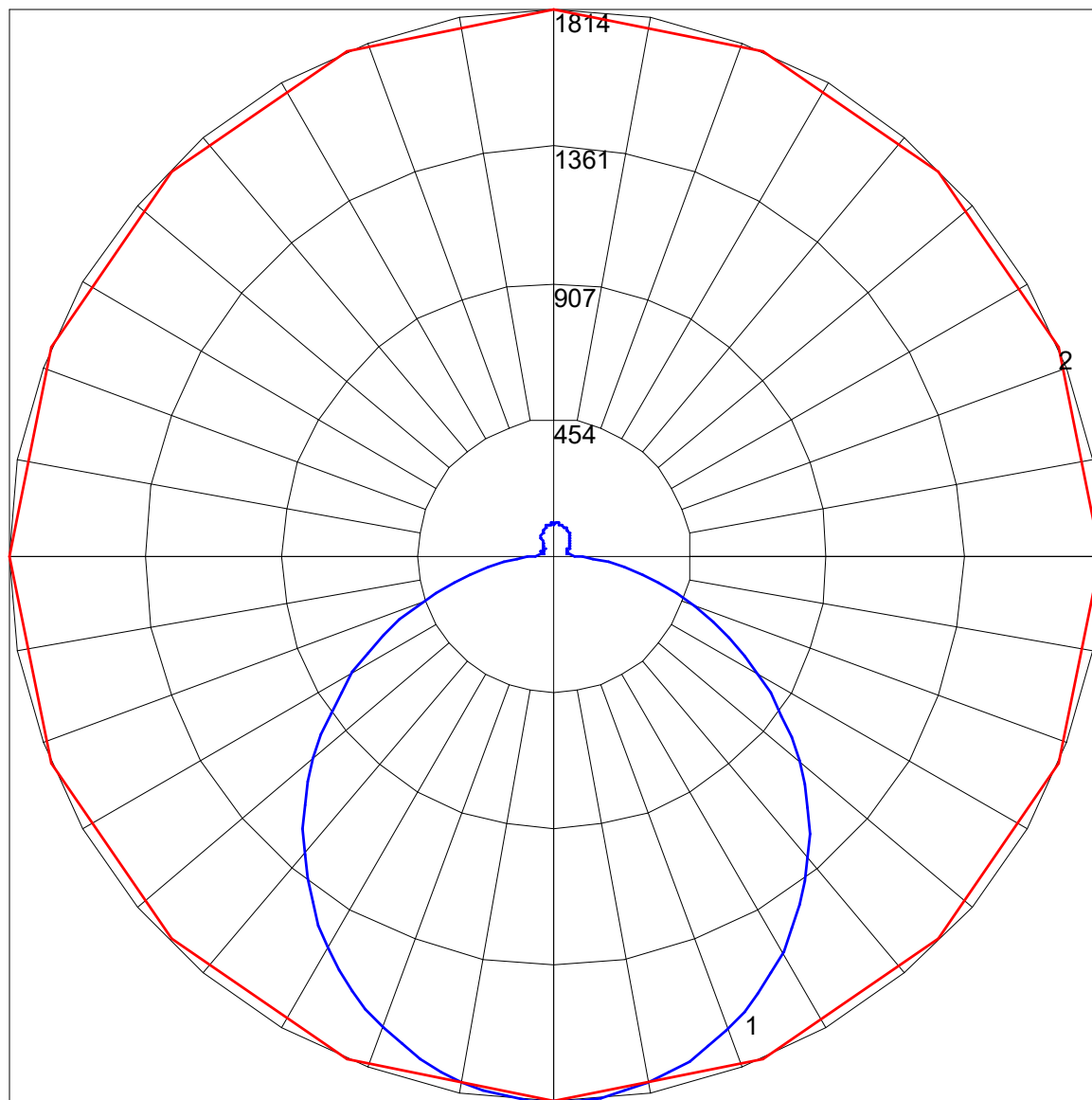
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1814.449 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.)