



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R1-LED35-HO-LLP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] R1-LED35-HO-SAL
 [TESTLAB] Intertek
 [ISSUE DATE] 11/21-19
 [MANUFAC] Prudential Lighting
 [_TOTAL LUMINAIRE LUMENS] 5,185.9

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6638
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.88
Spacing Criterion (Diagonal)	1.74
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24748	18216	13678
55	25097	10972	8749
65	17437	6630	5330
75	9279	4465	3291
85	3980	3709	2613

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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	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728
2.5	1087.360	1094.400	1111.296	1135.232	1141.632	1131.264	1104.384	1090.304	1088.000	1090.304
5.0	1087.872	1124.352	1207.040	1300.736	1331.712	1290.368	1193.728	1116.160	1089.664	1116.160
7.5	1088.896	1174.272	1372.672	1594.496	1677.056	1581.696	1353.344	1160.704	1093.120	1160.704
10.0	1091.200	1243.392	1618.176	2026.496	2192.000	2011.648	1592.320	1225.216	1097.472	1225.216
12.5	1094.272	1335.168	1947.392	2575.744	2815.488	2556.288	1912.320	1312.768	1102.976	1312.768
15.0	1099.264	1451.136	2339.840	3134.720	3379.456	3117.184	2294.272	1423.616	1108.864	1423.616
17.5	1105.664	1590.400	2749.184	3524.992	3667.584	3516.672	2701.056	1555.712	1116.544	1555.712
20.0	1114.496	1749.120	3102.848	3618.560	3582.976	3615.488	3061.760	1707.648	1126.400	1707.648
22.5	1126.400	1921.280	3328.768	3420.416	3237.248	3423.616	3297.152	1876.352	1138.304	1876.352
25.0	1141.120	2097.280	3381.760	3061.504	2837.376	3067.776	3364.224	2049.280	1151.872	2049.280
27.5	1157.504	2258.304	3265.536	2694.016	2496.128	2698.112	3262.976	2209.792	1167.616	2209.792
30.0	1176.576	2388.608	3027.584	2386.816	2237.056	2390.784	3034.880	2343.680	1185.664	2343.680
32.5	1198.208	2473.600	2737.280	2144.896	2037.760	2148.096	2749.184	2433.536	1205.760	2433.536
35.0	1219.072	2503.552	2446.080	1945.600	1867.392	1947.520	2457.984	2467.968	1225.344	2467.968
37.5	1239.808	2476.544	2175.232	1765.376	1704.448	1767.680	2179.584	2442.880	1243.008	2442.880
40.0	1258.496	2393.984	1926.656	1597.312	1547.392	1597.568	1922.688	2361.728	1257.344	2361.728
42.5	1270.528	2261.248	1698.048	1441.024	1404.160	1439.616	1689.600	2230.272	1263.232	2230.272
45.0	1271.296	2087.296	1489.408	1297.792	1274.112	1295.872	1477.760	2058.880	1255.936	2058.880
47.5	1255.680	1883.136	1302.016	1166.976	1149.952	1164.032	1280.512	1856.512	1231.360	1856.512
50.0	1216.384	1662.336	1133.952	1042.816	1027.072	1040.128	1096.960	1636.608	1182.848	1636.608
52.5	1151.744	1438.976	984.448	921.984	905.856	918.528	942.464	1411.200	1109.504	1411.200
55.0	1063.680	1223.552	851.328	807.808	794.240	793.984	819.840	1194.752	1011.584	1194.752
57.5	949.248	1027.328	734.848	704.768	693.888	680.832	709.888	995.584	892.032	995.584
60.0	817.792	854.400	632.832	613.376	604.928	593.536	612.224	819.072	761.600	819.072
62.5	686.976	705.792	545.152	533.248	525.952	519.040	529.024	671.488	631.680	671.488
65.0	559.872	580.864	471.168	463.616	456.576	451.968	457.600	551.424	509.056	551.424
67.5	440.960	478.208	409.216	402.944	395.136	393.216	397.824	452.224	399.872	452.224
70.0	341.632	394.624	357.120	349.824	340.864	341.888	347.264	362.752	307.712	362.752
72.5	261.376	325.760	313.984	304.512	294.528	297.984	306.048	305.536	232.448	305.536
75.0	193.536	269.440	278.528	267.392	256.512	261.888	272.768	255.616	171.136	255.616
77.5	137.856	223.872	250.240	238.208	226.816	233.856	244.992	212.736	121.600	212.736
80.0	95.360	186.752	227.072	216.320	205.312	212.864	222.208	177.280	81.920	177.280
82.5	62.208	156.160	208.000	199.808	189.568	196.736	203.776	148.352	50.944	148.352
85.0	35.712	131.456	192.128	186.496	177.280	184.064	188.544	125.312	27.392	125.312
87.5	16.512	112.128	178.688	175.488	166.784	173.184	175.232	107.008	10.752	107.008
90.0	0.000	96.768	166.656	165.760	157.440	163.584	163.584	92.672	0.000	92.672
92.5	0.000	85.248	155.904	157.312	149.504	155.264	153.344	81.920	0.000	81.920
95.0	0.000	76.288	146.176	149.760	142.976	147.840	143.872	73.472	0.000	73.472
97.5	0.000	68.864	137.344	143.104	137.344	141.184	135.040	66.432	0.000	66.432
100.0	0.000	62.592	128.896	137.216	132.480	135.424	126.720	60.288	0.000	60.288
102.5	0.000	56.320	120.832	131.712	128.384	130.176	118.912	54.144	0.000	54.144
105.0	0.000	49.408	113.408	126.720	124.800	125.312	111.488	47.744	0.000	47.744
107.5	0.000	44.288	106.240	121.728	120.960	120.448	104.448	42.368	0.000	42.368
110.0	0.000	40.192	99.200	116.736	116.736	115.584	97.280	36.224	0.000	36.224
112.5	0.000	36.864	91.392	111.360	112.256	110.208	87.936	31.232	0.000	31.232
115.0	0.000	33.920	83.200	105.472	107.392	104.448	75.008	27.136	0.000	27.136
117.5	0.000	31.616	75.776	99.200	102.272	98.048	64.000	23.808	0.000	23.808
120.0	0.000	29.568	69.248	91.904	96.512	90.880	55.040	21.248	0.000	21.248
122.5	0.000	27.776	63.616	84.608	89.472	83.456	47.872	19.328	0.000	19.328
125.0	0.000	26.112	58.496	77.952	82.688	74.240	41.984	18.048	0.000	18.048
127.5	0.000	24.576	53.888	71.936	76.288	64.128	37.376	17.536	0.000	17.536
130.0	0.000	23.424	49.920	66.432	70.528	55.680	33.408	17.536	0.000	17.536
132.5	0.000	22.144	46.336	61.312	65.280	48.512	29.952	17.408	0.000	17.408

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CANDELA TABULATION - (Cont.)

135.0	0.000	20.992	43.008	56.960	60.416	42.624	27.264	17.280	0.000	17.280
137.5	0.000	19.968	40.320	52.992	56.064	37.376	26.368	17.024	0.000	17.024
140.0	0.000	19.072	37.248	49.024	52.224	33.152	25.856	16.896	0.000	16.896
142.5	0.000	18.304	34.560	45.312	48.256	30.080	25.088	16.768	0.000	16.768
145.0	0.000	17.792	32.384	41.984	44.928	27.520	24.704	16.640	0.000	16.640
147.5	0.000	17.280	30.080	38.272	41.856	24.320	23.680	16.256	0.000	16.256
150.0	0.000	16.768	27.264	35.200	37.760	22.016	22.400	16.128	0.000	16.128
152.5	0.000	16.256	25.088	32.768	34.560	20.736	21.376	16.128	0.000	16.128
155.0	0.000	15.872	23.168	29.440	31.360	18.816	20.480	16.128	0.000	16.128
157.5	0.000	16.128	21.376	26.240	27.648	17.152	19.456	16.256	0.000	16.256
160.0	0.000	16.384	19.840	23.808	24.064	16.128	18.304	16.768	0.000	16.768
162.5	0.000	16.768	18.560	21.760	18.816	15.872	17.408	17.024	0.000	17.024
165.0	0.000	17.024	17.664	19.840	13.568	15.488	17.152	17.280	0.000	17.280
167.5	0.000	17.664	17.792	18.304	12.544	15.360	17.280	17.920	0.000	17.920
170.0	0.000	18.560	18.432	17.920	12.416	15.488	17.920	18.304	0.000	18.304
172.5	0.000	18.816	18.944	18.304	12.672	16.384	18.304	18.432	0.000	18.432
175.0	0.000	18.816	19.200	18.560	12.928	17.024	18.560	18.304	0.000	18.304
177.5	0.000	18.560	18.688	17.920	13.056	17.152	18.048	17.920	0.000	17.920
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728	1081.728
2.5	1104.384	1131.264	1141.632	1135.232	1111.296	1094.400	1087.360
5.0	1193.728	1290.368	1331.712	1300.736	1207.040	1124.352	1087.872
7.5	1353.344	1581.696	1677.056	1594.496	1372.672	1174.272	1088.896
10.0	1592.320	2011.648	2192.000	2026.496	1618.176	1243.392	1091.200
12.5	1912.320	2556.288	2815.488	2575.744	1947.392	1335.168	1094.272
15.0	2294.272	3117.184	3379.456	3134.720	2339.840	1451.136	1099.264
17.5	2701.056	3516.672	3667.584	3524.992	2749.184	1590.400	1105.664
20.0	3061.760	3615.488	3582.976	3618.560	3102.848	1749.120	1114.496
22.5	3297.152	3423.616	3237.248	3420.416	3328.768	1921.280	1126.400
25.0	3364.224	3067.776	2837.376	3061.504	3381.760	2097.280	1141.120
27.5	3262.976	2698.112	2496.128	2694.016	3265.536	2258.304	1157.504
30.0	3034.880	2390.784	2237.056	2386.816	3027.584	2388.608	1176.576
32.5	2749.184	2148.096	2037.760	2144.896	2737.280	2473.600	1198.208
35.0	2457.984	1947.520	1867.392	1945.600	2446.080	2503.552	1219.072
37.5	2179.584	1767.680	1704.448	1765.376	2175.232	2476.544	1239.808
40.0	1922.688	1597.568	1547.392	1597.312	1926.656	2393.984	1258.496
42.5	1689.600	1439.616	1404.160	1441.024	1698.048	2261.248	1270.528
45.0	1477.760	1295.872	1274.112	1297.792	1489.408	2087.296	1271.296
47.5	1280.512	1164.032	1149.952	1166.976	1302.016	1883.136	1255.680
50.0	1096.960	1040.128	1027.072	1042.816	1133.952	1662.336	1216.384
52.5	942.464	918.528	905.856	921.984	984.448	1438.976	1151.744
55.0	819.840	793.984	794.240	807.808	851.328	1223.552	1063.680
57.5	709.888	680.832	693.888	704.768	734.848	1027.328	949.248
60.0	612.224	593.536	604.928	613.376	632.832	854.400	817.792
62.5	529.024	519.040	525.952	533.248	545.152	705.792	686.976
65.0	457.600	451.968	456.576	463.616	471.168	580.864	559.872
67.5	397.824	393.216	395.136	402.944	409.216	478.208	440.960
70.0	347.264	341.888	340.864	349.824	357.120	394.624	341.632
72.5	306.048	297.984	294.528	304.512	313.984	325.760	261.376
75.0	272.768	261.888	256.512	267.392	278.528	269.440	193.536
77.5	244.992	233.856	226.816	238.208	250.240	223.872	137.856
80.0	222.208	212.864	205.312	216.320	227.072	186.752	95.360

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CANDELA TABULATION - (Cont.)

82.5	203.776	196.736	189.568	199.808	208.000	156.160	62.208
85.0	188.544	184.064	177.280	186.496	192.128	131.456	35.712
87.5	175.232	173.184	166.784	175.488	178.688	112.128	16.512
90.0	163.584	163.584	157.440	165.760	166.656	96.768	0.000
92.5	153.344	155.264	149.504	157.312	155.904	85.248	0.000
95.0	143.872	147.840	142.976	149.760	146.176	76.288	0.000
97.5	135.040	141.184	137.344	143.104	137.344	68.864	0.000
100.0	126.720	135.424	132.480	137.216	128.896	62.592	0.000
102.5	118.912	130.176	128.384	131.712	120.832	56.320	0.000
105.0	111.488	125.312	124.800	126.720	113.408	49.408	0.000
107.5	104.448	120.448	120.960	121.728	106.240	44.288	0.000
110.0	97.280	115.584	116.736	116.736	99.200	40.192	0.000
112.5	87.936	110.208	112.256	111.360	91.392	36.864	0.000
115.0	75.008	104.448	107.392	105.472	83.200	33.920	0.000
117.5	64.000	98.048	102.272	99.200	75.776	31.616	0.000
120.0	55.040	90.880	96.512	91.904	69.248	29.568	0.000
122.5	47.872	83.456	89.472	84.608	63.616	27.776	0.000
125.0	41.984	74.240	82.688	77.952	58.496	26.112	0.000
127.5	37.376	64.128	76.288	71.936	53.888	24.576	0.000
130.0	33.408	55.680	70.528	66.432	49.920	23.424	0.000
132.5	29.952	48.512	65.280	61.312	46.336	22.144	0.000
135.0	27.264	42.624	60.416	56.960	43.008	20.992	0.000
137.5	26.368	37.376	56.064	52.992	40.320	19.968	0.000
140.0	25.856	33.152	52.224	49.024	37.248	19.072	0.000
142.5	25.088	30.080	48.256	45.312	34.560	18.304	0.000
145.0	24.704	27.520	44.928	41.984	32.384	17.792	0.000
147.5	23.680	24.320	41.856	38.272	30.080	17.280	0.000
150.0	22.400	22.016	37.760	35.200	27.264	16.768	0.000
152.5	21.376	20.736	34.560	32.768	25.088	16.256	0.000
155.0	20.480	18.816	31.360	29.440	23.168	15.872	0.000
157.5	19.456	17.152	27.648	26.240	21.376	16.128	0.000
160.0	18.304	16.128	24.064	23.808	19.840	16.384	0.000
162.5	17.408	15.872	18.816	21.760	18.560	16.768	0.000
165.0	17.152	15.488	13.568	19.840	17.664	17.024	0.000
167.5	17.280	15.360	12.544	18.304	17.792	17.664	0.000
170.0	17.920	15.488	12.416	17.920	18.432	18.560	0.000
172.5	18.304	16.384	12.672	18.304	18.944	18.816	0.000
175.0	18.560	17.024	12.928	18.560	19.200	18.816	0.000
177.5	18.048	17.152	13.056	17.920	18.688	18.560	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	778.08	N.A.	11.70
0-30	1973.38	N.A.	29.70
0-40	3288.57	N.A.	49.50
0-60	5312.35	N.A.	80.00
0-80	6088.31	N.A.	91.70
0-90	6256.98	N.A.	94.30
10-90	6128.53	N.A.	92.30
20-40	2510.49	N.A.	37.80
20-50	3688.73	N.A.	55.60
40-70	2523.39	N.A.	38.00
60-80	775.97	N.A.	11.70
70-80	276.35	N.A.	4.20
80-90	168.67	N.A.	2.50
90-110	213.58	N.A.	3.20
90-120	280.42	N.A.	4.20
90-130	323.39	N.A.	4.90
90-150	365.96	N.A.	5.50
90-180	380.80	N.A.	5.70
110-180	167.23	N.A.	2.50
0-180	6637.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.45
10-20	649.62
20-30	1195.3
30-40	1315.2
40-50	1178.23
50-60	845.54
60-70	499.62
70-80	276.35
80-90	168.67
90-100	120.84
100-110	92.73
110-120	66.85
120-130	42.96
130-140	26.36
140-150	16.21
150-160	9.08
160-170	4.36
170-180	1.40

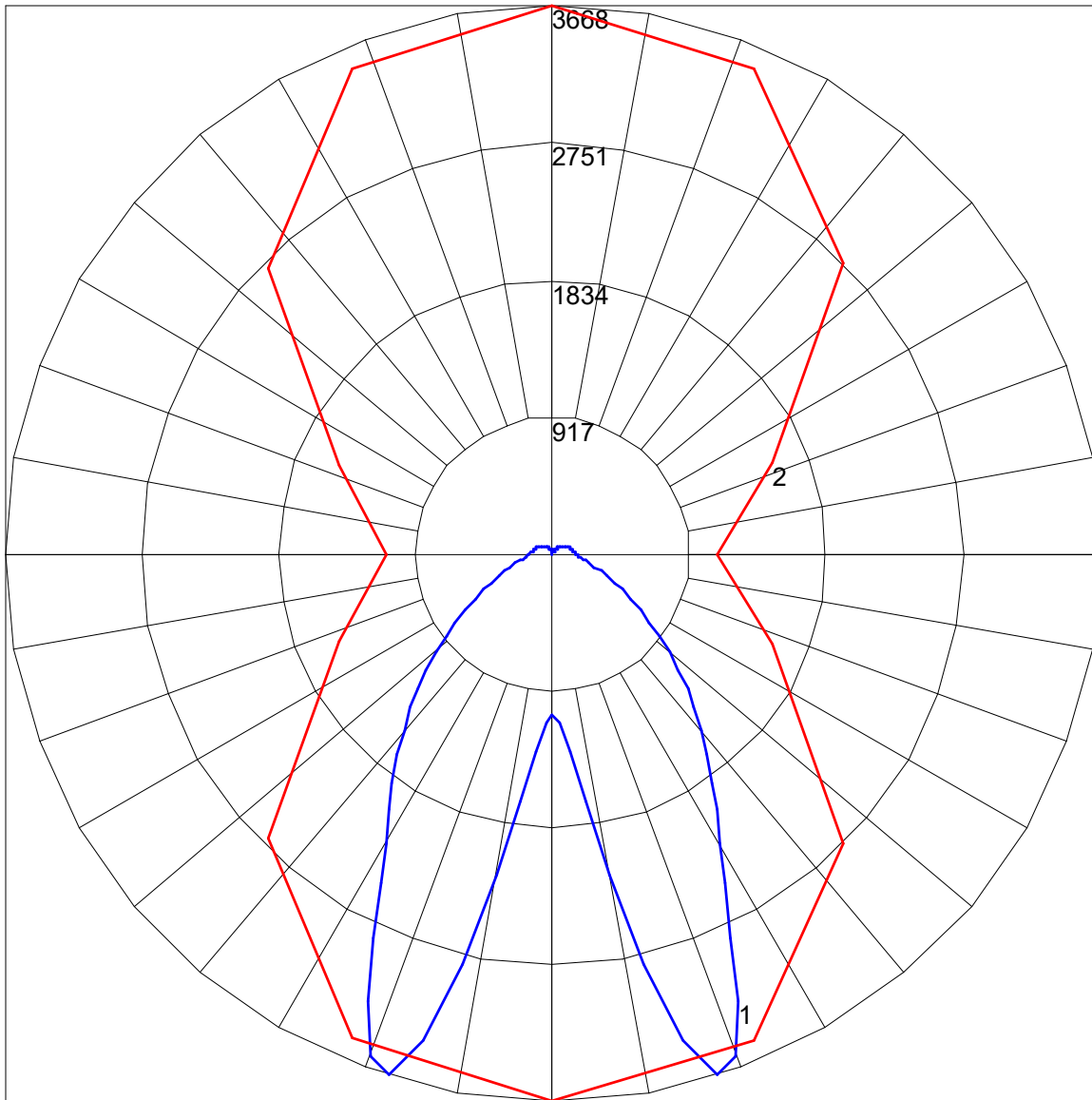
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	104	99	96	105	101	97	94	95	92	90	91	88	86	86	84	82	80
2	99	91	85	80	96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	72	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51
5	77	65	56	50	75	63	55	50	61	54	48	58	52	47	56	51	46	44
6	71	59	50	44	69	57	49	43	55	48	43	53	47	42	51	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35
8	61	48	40	35	60	48	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	30	28
10	54	41	33	28	52	40	33	28	39	32	28	37	31	27	36	31	27	25

POLAR GRAPH



Maximum Candela = 3667.584 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)