



IES INDOOR REPORT

PHOTOMETRIC FILENAME : C-40-LED35-SO-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] C-40-LED35-SO-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 6, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Unknown
Luminous Length (0-180)	3.00 ft (Diameter)
Luminous Width (90-270)	2.17 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532
2.5	1560.692	1554.336	1550.752	1549.688	1551.116	1549.688	1550.752	1554.336	1560.692	1554.336
5.0	1555.036	1548.932	1545.208	1544.340	1545.656	1544.340	1545.208	1548.932	1555.036	1548.932
7.5	1546.272	1540.168	1536.332	1535.464	1537.228	1535.464	1536.332	1540.168	1546.272	1540.168
10.0	1533.616	1527.792	1524.348	1523.396	1524.796	1523.396	1524.348	1527.792	1533.616	1527.792
12.5	1518.104	1512.252	1508.752	1507.884	1509.256	1507.884	1508.752	1512.252	1518.104	1512.252
15.0	1499.260	1493.576	1489.712	1488.928	1489.936	1488.928	1489.712	1493.576	1499.260	1493.576
17.5	1476.832	1471.596	1467.116	1466.332	1467.116	1466.332	1467.116	1471.596	1476.832	1471.596
20.0	1451.352	1446.004	1441.076	1440.180	1441.524	1440.180	1441.076	1446.004	1451.352	1446.004
22.5	1422.848	1416.884	1411.872	1411.452	1412.544	1411.452	1411.872	1416.884	1422.848	1416.884
25.0	1391.208	1384.908	1379.952	1379.840	1381.324	1379.840	1379.952	1384.908	1391.208	1384.908
27.5	1355.396	1350.104	1345.624	1345.596	1347.192	1345.596	1345.624	1350.104	1355.396	1350.104
30.0	1316.924	1313.004	1308.300	1308.608	1309.840	1308.608	1308.300	1313.004	1316.924	1313.004
32.5	1276.492	1273.132	1268.204	1268.988	1269.100	1268.988	1268.204	1273.132	1276.492	1273.132
35.0	1234.660	1230.488	1225.140	1225.812	1226.064	1225.812	1225.140	1230.488	1234.660	1230.488
37.5	1190.672	1185.156	1179.836	1180.396	1180.816	1180.396	1179.836	1185.156	1190.672	1185.156
40.0	1143.464	1137.668	1132.460	1132.656	1133.216	1132.656	1132.460	1137.668	1143.464	1137.668
42.5	1092.812	1087.996	1082.900	1083.320	1083.936	1083.320	1082.900	1087.996	1092.812	1087.996
45.0	1040.004	1036.224	1031.380	1031.940	1032.388	1031.940	1031.380	1036.224	1040.004	1036.224
47.5	986.244	982.324	977.844	978.096	978.740	978.096	977.844	982.324	986.244	982.324
50.0	931.812	926.688	922.656	922.292	923.188	922.292	922.656	926.688	931.812	926.688
52.5	876.008	869.540	865.788	864.584	865.816	864.584	865.788	869.540	876.008	869.540
55.0	817.684	811.440	807.296	805.644	807.212	805.644	807.296	811.440	817.684	811.440
57.5	756.980	751.800	747.544	745.724	747.712	745.724	747.544	751.800	756.980	751.800
60.0	695.492	690.760	686.504	684.824	687.344	684.824	686.504	690.760	695.492	690.760
62.5	634.424	628.880	624.820	623.476	626.136	623.476	624.820	628.880	634.424	628.880
65.0	573.468	566.636	562.688	561.568	564.732	561.568	562.688	566.636	573.468	566.636
67.5	511.616	504.448	500.388	499.408	503.104	499.408	500.388	504.448	511.616	504.448
70.0	449.008	442.176	438.032	437.080	441.560	437.080	438.032	442.176	449.008	442.176
72.5	386.876	380.296	376.124	375.620	380.660	375.620	376.124	380.296	386.876	380.296
75.0	325.920	318.976	315.028	315.168	320.964	315.168	315.028	318.976	325.920	318.976
77.5	266.000	258.692	255.220	256.004	261.856	256.004	255.220	258.692	266.000	258.692
80.0	206.836	200.396	197.232	198.408	203.392	198.408	197.232	200.396	206.836	200.396
82.5	149.044	144.284	141.568	142.604	146.524	142.604	141.568	144.284	149.044	144.284
85.0	93.688	90.384	88.704	88.984	92.372	88.984	88.704	90.384	93.688	90.384
87.5	41.356	39.144	39.004	38.472	40.936	38.472	39.004	39.144	41.356	39.144
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532	1554.532
2.5	1550.752	1549.688	1551.116	1549.688	1550.752	1554.336	1560.692
5.0	1545.208	1544.340	1545.656	1544.340	1545.208	1548.932	1555.036
7.5	1536.332	1535.464	1537.228	1535.464	1536.332	1540.168	1546.272
10.0	1524.348	1523.396	1524.796	1523.396	1524.348	1527.792	1533.616
12.5	1508.752	1507.884	1509.256	1507.884	1508.752	1512.252	1518.104
15.0	1489.712	1488.928	1489.936	1488.928	1489.712	1493.576	1499.260
17.5	1467.116	1466.332	1467.116	1466.332	1467.116	1471.596	1476.832
20.0	1441.076	1440.180	1441.524	1440.180	1441.076	1446.004	1451.352
22.5	1411.872	1411.452	1412.544	1411.452	1411.872	1416.884	1422.848
25.0	1379.952	1379.840	1381.324	1379.840	1379.952	1384.908	1391.208
27.5	1345.624	1345.596	1347.192	1345.596	1345.624	1350.104	1355.396
30.0	1308.300	1308.608	1309.840	1308.608	1308.300	1313.004	1316.924
32.5	1268.204	1268.988	1269.100	1268.988	1268.204	1273.132	1276.492
35.0	1225.140	1225.812	1226.064	1225.812	1225.140	1230.488	1234.660
37.5	1179.836	1180.396	1180.816	1180.396	1179.836	1185.156	1190.672
40.0	1132.460	1132.656	1133.216	1132.656	1132.460	1137.668	1143.464
42.5	1082.900	1083.320	1083.936	1083.320	1082.900	1087.996	1092.812
45.0	1031.380	1031.940	1032.388	1031.940	1031.380	1036.224	1040.004
47.5	977.844	978.096	978.740	978.096	977.844	982.324	986.244
50.0	922.656	922.292	923.188	922.292	922.656	926.688	931.812
52.5	865.788	864.584	865.816	864.584	865.788	869.540	876.008
55.0	807.296	805.644	807.212	805.644	807.296	811.440	817.684
57.5	747.544	745.724	747.712	745.724	747.544	751.800	756.980
60.0	686.504	684.824	687.344	684.824	686.504	690.760	695.492
62.5	624.820	623.476	626.136	623.476	624.820	628.880	634.424
65.0	562.688	561.568	564.732	561.568	562.688	566.636	573.468
67.5	500.388	499.408	503.104	499.408	500.388	504.448	511.616
70.0	438.032	437.080	441.560	437.080	438.032	442.176	449.008
72.5	376.124	375.620	380.660	375.620	376.124	380.296	386.876
75.0	315.028	315.168	320.964	315.168	315.028	318.976	325.920
77.5	255.220	256.004	261.856	256.004	255.220	258.692	266.000
80.0	197.232	198.408	203.392	198.408	197.232	200.396	206.836

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CANDELA TABULATION - (Cont.)

82.5	141.568	142.604	146.524	142.604	141.568	144.284	149.044
85.0	88.704	88.984	92.372	88.984	88.704	90.384	93.688
87.5	39.004	38.472	40.936	38.472	39.004	39.144	41.356
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	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	567.94	N.A.	12.60
0-30	1205.19	N.A.	26.80
0-40	1973.3	N.A.	43.90
0-60	3493.72	N.A.	77.80
0-80	4389.36	N.A.	97.70
0-90	4491.08	N.A.	100.00
10-90	4344.06	N.A.	96.70
20-40	1405.36	N.A.	31.30
20-50	2202.71	N.A.	49.00
40-70	2079.5	N.A.	46.30
60-80	895.63	N.A.	19.90
70-80	336.55	N.A.	7.50
80-90	101.72	N.A.	2.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4491.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.02
10-20	420.92
20-30	637.25
30-40	768.11
40-50	797.35
50-60	723.07
60-70	559.08
70-80	336.55
80-90	101.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

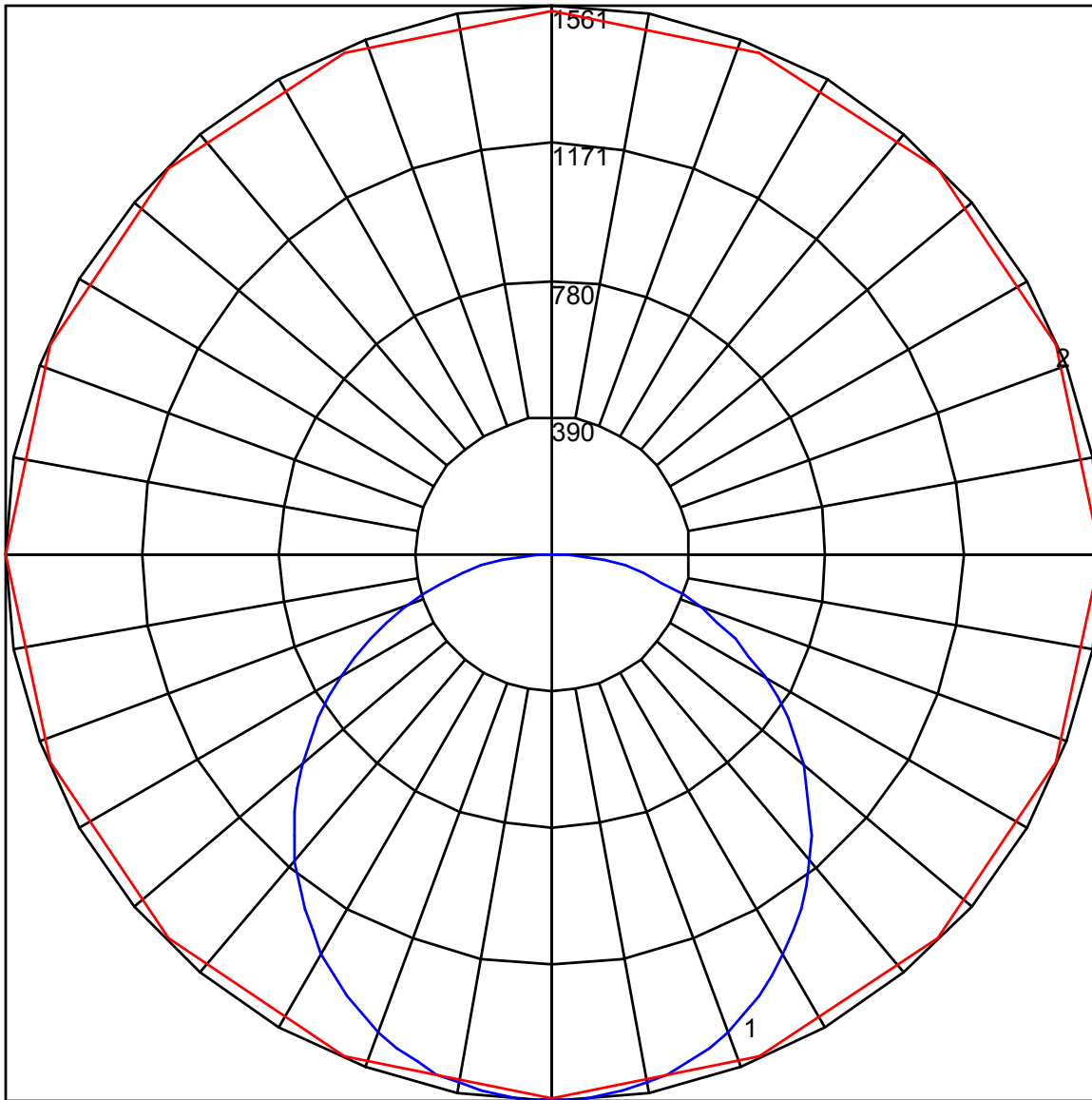
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1560.692 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.)