



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : C-40-LED35-SO-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] C-40-LED35-SO-D9  
 [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	6352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	91
Ballast Factor	1.00
CIE Type	Semi-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)	3.88 ft (Diameter)
Luminous Width (90-270)	3.33 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

**IES INDOOR REPORT**  
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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624
<b>2.5</b>	1483.831	1486.414	1476.205	1468.497	1471.367	1468.497	1476.205	1486.414	1483.831	1486.414
<b>5.0</b>	1479.300	1481.473	1471.121	1464.089	1466.734	1464.089	1471.121	1481.473	1479.300	1481.473
<b>7.5</b>	1469.378	1472.453	1463.105	1456.258	1459.497	1456.258	1463.105	1472.453	1469.378	1472.453
<b>10.0</b>	1455.971	1459.661	1450.621	1443.569	1445.455	1443.569	1450.621	1459.661	1455.971	1459.661
<b>12.5</b>	1442.216	1443.323	1434.344	1426.021	1429.178	1426.021	1434.344	1443.323	1442.216	1443.323
<b>15.0</b>	1421.203	1423.212	1415.402	1409.826	1409.744	1409.826	1415.402	1423.212	1421.203	1423.212
<b>17.5</b>	1398.448	1400.949	1394.676	1386.989	1388.998	1386.989	1394.676	1400.949	1398.448	1400.949
<b>20.0</b>	1372.188	1376.923	1367.473	1363.742	1363.988	1363.742	1367.473	1376.923	1372.188	1376.923
<b>22.5</b>	1346.276	1347.444	1342.053	1333.750	1337.071	1333.750	1342.053	1347.444	1346.276	1347.444
<b>25.0</b>	1315.464	1320.138	1311.057	1308.207	1305.194	1308.207	1311.057	1320.138	1315.464	1320.138
<b>27.5</b>	1283.689	1283.935	1277.990	1272.619	1272.476	1272.619	1277.990	1283.935	1283.689	1283.935
<b>30.0</b>	1248.163	1249.024	1241.623	1238.815	1237.011	1238.815	1241.623	1249.024	1248.163	1249.024
<b>32.5</b>	1208.208	1211.509	1204.621	1200.480	1196.216	1200.480	1204.621	1211.509	1208.208	1211.509
<b>35.0</b>	1167.946	1169.361	1163.293	1161.427	1158.024	1161.427	1163.293	1169.361	1167.946	1169.361
<b>37.5</b>	1124.814	1125.409	1120.509	1117.024	1117.229	1117.024	1120.509	1125.409	1124.814	1125.409
<b>40.0</b>	1078.730	1080.124	1073.810	1073.851	1072.785	1073.851	1073.810	1080.124	1078.730	1080.124
<b>42.5</b>	1029.633	1029.018	1027.029	1023.913	1023.852	1023.913	1027.029	1029.018	1029.633	1029.018
<b>45.0</b>	980.474	979.982	976.579	977.624	974.221	977.624	976.579	979.982	980.474	979.982
<b>47.5</b>	927.153	926.661	925.739	925.288	927.174	925.288	925.739	926.661	927.153	926.661
<b>50.0</b>	873.976	874.673	872.316	872.890	872.685	872.890	872.316	874.673	873.976	874.673
<b>52.5</b>	820.246	819.282	816.863	818.032	817.519	818.032	816.863	819.282	820.246	819.282
<b>55.0</b>	764.363	763.850	759.996	761.206	761.062	761.206	759.996	763.850	764.363	763.850
<b>57.5</b>	707.496	707.168	706.778	705.364	706.204	705.364	706.778	707.168	707.496	707.168
<b>60.0</b>	651.182	649.665	647.636	648.661	649.460	648.661	647.636	649.665	651.182	649.665
<b>62.5</b>	593.372	592.122	593.003	589.395	589.436	589.395	593.003	592.122	593.372	592.122
<b>65.0</b>	537.920	531.483	534.168	529.289	531.708	529.289	534.168	531.483	537.920	531.483
<b>67.5</b>	477.076	473.058	473.796	471.336	473.796	471.336	473.796	473.058	477.076	473.058
<b>70.0</b>	418.897	414.612	415.555	414.407	415.391	414.407	415.555	414.612	418.897	414.612
<b>72.5</b>	361.169	358.627	356.741	355.818	359.693	355.818	356.741	358.627	361.169	358.627
<b>75.0</b>	306.044	301.801	301.329	299.935	303.297	299.935	301.329	301.801	306.044	301.801
<b>77.5</b>	248.439	245.159	244.667	246.471	246.389	246.471	244.667	245.159	248.439	245.159
<b>80.0</b>	191.941	191.429	190.096	190.158	192.126	190.158	190.096	191.429	191.941	191.429
<b>82.5</b>	139.912	137.042	138.149	135.874	137.186	135.874	138.149	137.042	139.912	137.042
<b>85.0</b>	88.539	88.765	87.883	87.555	86.202	87.555	87.883	88.765	88.539	88.765
<b>87.5</b>	39.339	40.077	40.446	37.248	36.510	37.248	40.446	40.077	39.339	40.077
<b>90.0</b>	6.170	6.519	7.564	9.430	10.947	9.430	7.564	6.519	6.170	6.519
<b>92.5</b>	10.024	11.131	10.885	11.131	10.885	11.131	10.885	11.131	10.024	11.131
<b>95.0</b>	22.591	23.862	23.267	23.882	22.878	23.882	23.267	23.862	22.591	23.862
<b>97.5</b>	41.020	40.159	40.139	40.323	39.770	40.323	40.139	40.159	41.020	40.159
<b>100.0</b>	66.174	61.500	61.110	61.377	58.876	61.377	61.110	61.500	66.174	61.500
<b>102.5</b>	92.065	85.321	83.906	83.578	82.041	83.578	83.906	85.321	92.065	85.321
<b>105.0</b>	118.408	112.094	108.588	107.850	108.096	107.850	108.588	112.094	118.408	112.094
<b>107.5</b>	144.812	141.716	135.382	134.521	136.673	134.521	135.382	141.716	144.812	141.716
<b>110.0</b>	173.122	172.036	165.353	163.426	167.198	163.426	165.353	172.036	173.122	172.036
<b>112.5</b>	202.663	202.683	196.779	194.401	198.665	194.401	196.779	202.683	202.663	202.683
<b>115.0</b>	232.818	233.310	228.575	226.012	230.502	226.012	228.575	233.310	232.818	233.310
<b>117.5</b>	263.753	264.737	260.042	258.197	262.420	258.197	260.042	264.737	263.753	264.737
<b>120.0</b>	295.077	296.491	292.002	290.218	294.585	290.218	292.002	296.491	295.077	296.491
<b>122.5</b>	327.364	328.594	324.146	322.649	326.852	322.649	324.146	328.594	327.364	328.594
<b>125.0</b>	359.713	361.005	356.331	355.982	358.893	355.982	356.331	361.005	359.713	361.005
<b>127.5</b>	392.124	393.395	388.352	389.274	391.652	389.274	388.352	393.395	392.124	393.395
<b>130.0</b>	424.596	426.010	420.926	422.095	425.375	422.095	420.926	426.010	424.596	426.010
<b>132.5</b>	457.293	458.605	453.993	455.284	458.687	455.284	453.993	458.605	457.293	458.605

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**CANDELA TABULATION - (Cont.)**

135.0	490.011	491.446	486.916	488.781	491.590	488.781	486.916	491.446	490.011	491.446
137.5	522.545	524.123	519.634	522.032	524.287	522.032	519.634	524.123	522.545	524.123
140.0	554.955	556.452	551.798	554.566	557.210	554.566	551.798	556.452	554.955	556.452
142.5	586.771	588.186	583.491	586.320	588.985	586.320	583.491	588.186	586.771	588.186
145.0	617.398	618.936	614.221	617.132	619.530	617.132	614.221	618.936	617.398	618.936
147.5	646.467	648.579	643.638	646.385	648.558	646.385	643.638	648.579	646.467	648.579
150.0	674.573	676.828	671.354	674.163	676.151	674.163	671.354	676.828	674.573	676.828
152.5	701.161	703.150	697.902	700.710	702.391	700.710	697.902	703.150	701.161	703.150
155.0	726.130	727.852	722.973	725.167	726.602	725.167	722.973	727.852	726.130	727.852
157.5	748.844	750.382	746.302	747.737	749.008	747.737	746.302	750.382	748.844	750.382
160.0	769.672	771.517	767.151	768.114	769.344	768.114	767.151	771.517	769.672	771.517
162.5	788.204	790.623	785.170	786.359	787.835	786.359	785.170	790.623	788.204	790.623
165.0	804.789	806.962	801.488	802.554	803.825	802.554	801.488	806.962	804.789	806.962
167.5	818.749	820.840	815.572	816.187	817.786	816.187	815.572	820.840	818.749	820.840
170.0	830.414	832.300	827.195	827.851	829.389	827.851	827.195	832.300	830.414	832.300
172.5	839.536	841.361	836.215	836.789	838.347	836.789	836.215	841.361	839.536	841.361
175.0	846.055	847.490	842.509	843.247	844.764	843.247	842.509	847.490	846.055	847.490
177.5	850.114	851.385	846.383	847.080	848.597	847.080	846.383	851.385	850.114	851.385
180.0	849.889	849.889	849.889	849.889	849.889	849.889	849.889	849.889	849.889	849.889

**Vert. Angles**      **Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624	1478.624
2.5	1476.205	1468.497	1471.367	1468.497	1476.205	1486.414	1483.831
5.0	1471.121	1464.089	1466.734	1464.089	1471.121	1481.473	1479.300
7.5	1463.105	1456.258	1459.497	1456.258	1463.105	1472.453	1469.378
10.0	1450.621	1443.569	1445.455	1443.569	1450.621	1459.661	1455.971
12.5	1434.344	1426.021	1429.178	1426.021	1434.344	1443.323	1442.216
15.0	1415.402	1409.826	1409.744	1409.826	1415.402	1423.212	1421.203
17.5	1394.676	1386.989	1388.998	1386.989	1394.676	1400.949	1398.448
20.0	1367.473	1363.742	1363.988	1363.742	1367.473	1376.923	1372.188
22.5	1342.053	1333.750	1337.071	1333.750	1342.053	1347.444	1346.276
25.0	1311.057	1308.207	1305.194	1308.207	1311.057	1320.138	1315.464
27.5	1277.990	1272.619	1272.476	1272.619	1277.990	1283.935	1283.689
30.0	1241.623	1238.815	1237.011	1238.815	1241.623	1249.024	1248.163
32.5	1204.621	1200.480	1196.216	1200.480	1204.621	1211.509	1208.208
35.0	1163.293	1161.427	1158.024	1161.427	1163.293	1169.361	1167.946
37.5	1120.509	1117.024	1117.229	1117.024	1120.509	1125.409	1124.814
40.0	1073.810	1073.851	1072.785	1073.851	1073.810	1080.124	1078.730
42.5	1027.029	1023.913	1023.852	1023.913	1027.029	1029.018	1029.633
45.0	976.579	977.624	974.221	977.624	976.579	979.982	980.474
47.5	925.739	925.288	927.174	925.288	925.739	926.661	927.153
50.0	872.316	872.890	872.685	872.890	872.316	874.673	873.976
52.5	816.863	818.032	817.519	818.032	816.863	819.282	820.246
55.0	759.996	761.206	761.062	761.206	759.996	763.850	764.363
57.5	706.778	705.364	706.204	705.364	706.778	707.168	707.496
60.0	647.636	648.661	649.460	648.661	647.636	649.665	651.182
62.5	593.003	589.395	589.436	589.395	593.003	592.122	593.372
65.0	534.168	529.289	531.708	529.289	534.168	531.483	537.920
67.5	473.796	471.336	473.796	471.336	473.796	473.058	477.076
70.0	415.555	414.407	415.391	414.407	415.555	414.612	418.897
72.5	356.741	355.818	359.693	355.818	356.741	358.627	361.169
75.0	301.329	299.935	303.297	299.935	301.329	301.801	306.044
77.5	244.667	246.471	246.389	246.471	244.667	245.159	248.439
80.0	190.096	190.158	192.126	190.158	190.096	191.429	191.941

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**CANDELA TABULATION - (Cont.)**

82.5	138.149	135.874	137.186	135.874	138.149	137.042	139.912
85.0	87.883	87.555	86.202	87.555	87.883	88.765	88.539
87.5	40.446	37.248	36.510	37.248	40.446	40.077	39.339
90.0	7.564	9.430	10.947	9.430	7.564	6.519	6.170
92.5	10.885	11.131	10.885	11.131	10.885	11.131	10.024
95.0	23.267	23.882	22.878	23.882	23.267	23.862	22.591
97.5	40.139	40.323	39.770	40.323	40.139	40.159	41.020
100.0	61.110	61.377	58.876	61.377	61.110	61.500	66.174
102.5	83.906	83.578	82.041	83.578	83.906	85.321	92.065
105.0	108.588	107.850	108.096	107.850	108.588	112.094	118.408
107.5	135.382	134.521	136.673	134.521	135.382	141.716	144.812
110.0	165.353	163.426	167.198	163.426	165.353	172.036	173.122
112.5	196.779	194.401	198.665	194.401	196.779	202.683	202.663
115.0	228.575	226.012	230.502	226.012	228.575	233.310	232.818
117.5	260.042	258.197	262.420	258.197	260.042	264.737	263.753
120.0	292.002	290.218	294.585	290.218	292.002	296.491	295.077
122.5	324.146	322.649	326.852	322.649	324.146	328.594	327.364
125.0	356.331	355.982	358.893	355.982	356.331	361.005	359.713
127.5	388.352	389.274	391.652	389.274	388.352	393.395	392.124
130.0	420.926	422.095	425.375	422.095	420.926	426.010	424.596
132.5	453.993	455.284	458.687	455.284	453.993	458.605	457.293
135.0	486.916	488.781	491.590	488.781	486.916	491.446	490.011
137.5	519.634	522.032	524.287	522.032	519.634	524.123	522.545
140.0	551.798	554.566	557.210	554.566	551.798	556.452	554.955
142.5	583.491	586.320	588.985	586.320	583.491	588.186	586.771
145.0	614.221	617.132	619.530	617.132	614.221	618.936	617.398
147.5	643.638	646.385	648.558	646.385	643.638	648.579	646.467
150.0	671.354	674.163	676.151	674.163	671.354	676.828	674.573
152.5	697.902	700.710	702.391	700.710	697.902	703.150	701.161
155.0	722.973	725.167	726.602	725.167	722.973	727.852	726.130
157.5	746.302	747.737	749.008	747.737	746.302	750.382	748.844
160.0	767.151	768.114	769.344	768.114	767.151	771.517	769.672
162.5	785.170	786.359	787.835	786.359	785.170	790.623	788.204
165.0	801.488	802.554	803.825	802.554	801.488	806.962	804.789
167.5	815.572	816.187	817.786	816.187	815.572	820.840	818.749
170.0	827.195	827.851	829.389	827.851	827.195	832.300	830.414
172.5	836.215	836.789	838.347	836.789	836.215	841.361	839.536
175.0	842.509	843.247	844.764	843.247	842.509	847.490	846.055
177.5	846.383	847.080	848.597	847.080	846.383	851.385	850.114
180.0	849.889	849.889	849.889	849.889	849.889	849.889	849.889

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	539.45	N.A.	8.50
0-30	1143.85	N.A.	18.00
0-40	1871.99	N.A.	29.50
0-60	3307.69	N.A.	52.10
0-80	4153.54	N.A.	65.40
0-90	4252.5	N.A.	66.90
10-90	4112.61	N.A.	64.70
20-40	1332.54	N.A.	21.00
20-50	2086.53	N.A.	32.80
40-70	1962.67	N.A.	30.90
60-80	845.85	N.A.	13.30
70-80	318.87	N.A.	5.00
80-90	98.95	N.A.	1.60
90-110	147.89	N.A.	2.30
90-120	375.55	N.A.	5.90
90-130	695.83	N.A.	11.00
90-150	1459.04	N.A.	23.00
90-180	2099.57	N.A.	33.10
110-180	1951.67	N.A.	30.70
0-180	6352.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.88
10-20	399.57
20-30	604.40
30-40	728.14
40-50	753.99
50-60	681.70
60-70	526.98
70-80	318.87
80-90	98.95
90-100	29.77
100-110	118.12
110-120	227.66
120-130	320.28
130-140	377.58
140-150	385.62
150-160	333.90
160-170	226.49
170-180	80.14

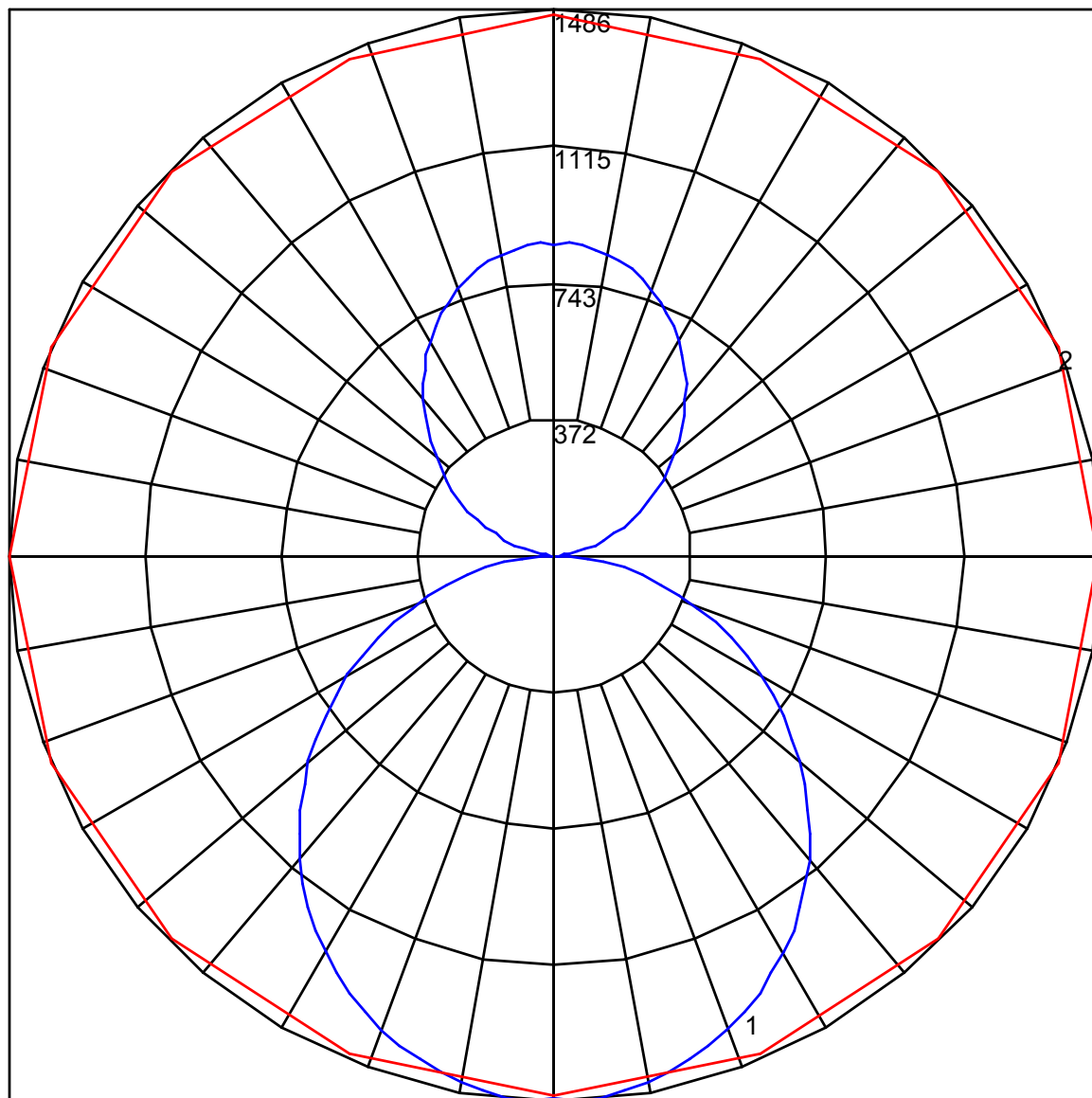
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	101	97	92	89	95	91	87	84	81	78	76	71	69	67	63	61	60	56
2	92	84	78	72	86	79	74	69	71	66	62	62	59	56	55	52	50	46
3	84	74	66	60	78	70	63	57	62	56	52	55	51	47	48	45	42	39
4	77	65	57	50	72	62	54	48	55	49	44	49	44	40	43	39	36	33
5	70	58	49	43	66	55	47	41	49	43	38	44	39	35	39	35	31	28
6	65	52	44	37	61	49	42	36	44	38	33	40	34	30	35	31	28	25
7	60	47	39	33	56	45	37	32	40	34	29	36	31	27	32	28	24	22
8	56	43	35	29	52	41	33	28	37	30	26	33	28	24	29	25	22	20
9	52	39	31	26	49	37	30	25	34	27	23	30	25	21	27	23	20	18
10	48	36	28	23	46	34	27	23	31	25	21	28	23	19	25	21	18	16

POLAR GRAPH



Maximum Candela = 1486.414 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.)