



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : C-30-LED35-SO-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] C-30-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	5361
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	74
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

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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>	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814
<b>2.5</b>	1252.209	1254.388	1245.773	1239.268	1241.690	1239.268	1245.773	1254.388	1252.209	1254.388
<b>5.0</b>	1248.385	1250.219	1241.483	1235.549	1237.780	1235.549	1241.483	1250.219	1248.385	1250.219
<b>7.5</b>	1240.012	1242.607	1234.718	1228.940	1231.674	1228.940	1234.718	1242.607	1240.012	1242.607
<b>10.0</b>	1228.698	1231.812	1224.183	1218.231	1219.823	1218.231	1224.183	1231.812	1228.698	1231.812
<b>12.5</b>	1217.090	1218.024	1210.446	1203.423	1206.087	1203.423	1210.446	1218.024	1217.090	1218.024
<b>15.0</b>	1199.357	1201.053	1194.461	1189.756	1189.686	1189.756	1194.461	1201.053	1199.357	1201.053
<b>17.5</b>	1180.154	1182.265	1176.971	1170.483	1172.179	1170.483	1176.971	1182.265	1180.154	1182.265
<b>20.0</b>	1157.993	1161.989	1154.014	1150.865	1151.073	1150.865	1154.014	1161.989	1157.993	1161.989
<b>22.5</b>	1136.126	1137.112	1132.562	1125.555	1128.358	1125.555	1132.562	1137.112	1136.126	1137.112
<b>25.0</b>	1110.124	1114.068	1106.404	1104.000	1101.456	1104.000	1106.404	1114.068	1110.124	1114.068
<b>27.5</b>	1083.309	1083.516	1078.499	1073.967	1073.846	1073.967	1078.499	1083.516	1083.309	1083.516
<b>30.0</b>	1053.328	1054.054	1047.809	1045.439	1043.917	1045.439	1047.809	1054.054	1053.328	1054.054
<b>32.5</b>	1019.610	1022.395	1016.583	1013.088	1009.490	1013.088	1016.583	1022.395	1019.610	1022.395
<b>35.0</b>	985.633	986.827	981.706	980.132	977.260	980.132	981.706	986.827	985.633	986.827
<b>37.5</b>	949.234	949.735	945.601	942.660	942.833	942.660	945.601	949.735	949.234	949.735
<b>40.0</b>	910.343	911.520	906.191	906.226	905.326	906.226	906.191	911.520	910.343	911.520
<b>42.5</b>	868.910	868.391	866.713	864.083	864.031	864.083	866.713	868.391	868.910	868.391
<b>45.0</b>	827.424	827.009	824.137	825.020	822.148	825.020	824.137	827.009	827.424	827.009
<b>47.5</b>	782.427	782.012	781.233	780.853	782.444	780.853	781.233	782.012	782.427	782.012
<b>50.0</b>	737.551	738.139	736.150	736.634	736.461	736.634	736.150	738.139	737.551	738.139
<b>52.5</b>	692.208	691.395	689.353	690.339	689.907	690.339	689.353	691.395	692.208	691.395
<b>55.0</b>	645.048	644.615	641.363	642.384	642.263	642.384	641.363	644.615	645.048	644.615
<b>57.5</b>	597.058	596.781	596.452	595.258	595.968	595.258	596.452	596.781	597.058	596.781
<b>60.0</b>	549.535	548.254	546.542	547.407	548.081	547.407	546.542	548.254	549.535	548.254
<b>62.5</b>	500.749	499.693	500.437	497.392	497.427	497.392	500.437	499.693	500.749	499.693
<b>65.0</b>	453.952	448.520	450.786	446.669	448.710	446.669	450.786	448.520	453.952	448.520
<b>67.5</b>	402.606	399.215	399.838	397.762	399.838	397.762	399.838	399.215	402.606	399.215
<b>70.0</b>	353.508	349.893	350.688	349.720	350.550	349.720	350.688	349.893	353.508	349.893
<b>72.5</b>	304.791	302.646	301.055	300.276	303.546	300.276	301.055	302.646	304.791	302.646
<b>75.0</b>	258.272	254.691	254.293	253.116	255.954	253.116	254.293	254.691	258.272	254.691
<b>77.5</b>	209.659	206.891	206.476	207.998	207.929	207.998	206.476	206.891	209.659	206.891
<b>80.0</b>	161.980	161.547	160.423	160.475	162.136	160.475	160.423	161.547	161.980	161.547
<b>82.5</b>	118.073	115.651	116.585	114.664	115.772	114.664	116.585	115.651	118.073	115.651
<b>85.0</b>	74.719	74.909	74.165	73.888	72.747	73.888	74.165	74.909	74.719	74.909
<b>87.5</b>	33.199	33.822	34.133	31.434	30.811	31.434	34.133	33.822	33.199	33.822
<b>90.0</b>	5.207	5.501	6.384	7.958	9.238	7.958	6.384	5.501	5.207	5.501
<b>92.5</b>	8.460	9.394	9.186	9.394	9.186	9.394	9.186	9.394	8.460	9.394
<b>95.0</b>	19.065	20.137	19.636	20.155	19.307	20.155	19.636	20.137	19.065	20.137
<b>97.5</b>	34.617	33.891	33.873	34.029	33.562	34.029	33.873	33.891	34.617	33.891
<b>100.0</b>	55.844	51.900	51.571	51.796	49.686	51.796	51.571	51.900	55.844	51.900
<b>102.5</b>	77.694	72.003	70.809	70.532	69.235	70.532	70.809	72.003	77.694	72.003
<b>105.0</b>	99.925	94.596	91.638	91.015	91.223	91.015	91.638	94.596	99.925	94.596
<b>107.5</b>	122.207	119.595	114.249	113.523	115.339	113.523	114.249	119.595	122.207	119.595
<b>110.0</b>	146.099	145.182	139.542	137.916	141.099	137.916	139.542	145.182	146.099	145.182
<b>112.5</b>	171.028	171.045	166.063	164.056	167.654	164.056	166.063	171.045	171.028	171.045
<b>115.0</b>	196.476	196.891	192.895	190.733	194.521	190.733	192.895	196.891	196.476	196.891
<b>117.5</b>	222.582	223.412	219.451	217.894	221.457	217.894	219.451	223.412	222.582	223.412
<b>120.0</b>	249.016	250.210	246.421	244.916	248.601	244.916	246.421	250.210	249.016	250.210
<b>122.5</b>	276.264	277.302	273.548	272.285	275.831	272.285	273.548	277.302	276.264	277.302
<b>125.0</b>	303.563	304.653	300.709	300.415	302.871	300.415	300.709	304.653	303.563	304.653
<b>127.5</b>	330.914	331.987	327.731	328.510	330.517	328.510	327.731	331.987	330.914	331.987
<b>130.0</b>	358.318	359.511	355.221	356.207	358.975	356.207	355.221	359.511	358.318	359.511
<b>132.5</b>	385.911	387.018	383.126	384.216	387.088	384.216	383.126	387.018	385.911	387.018

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**CANDELA TABULATION - (Cont.)**

135.0	413.522	414.733	410.910	412.484	414.854	412.484	410.910	414.733	413.522	414.733
137.5	440.977	442.309	438.520	440.545	442.448	440.545	438.520	442.309	440.977	442.309
140.0	468.328	469.591	465.664	468.000	470.231	468.000	465.664	469.591	468.328	469.591
142.5	495.178	496.372	492.410	494.797	497.046	494.797	492.410	496.372	495.178	496.372
145.0	521.024	522.322	518.343	520.799	522.823	520.799	518.343	522.322	521.024	522.322
147.5	545.556	547.337	543.168	545.486	547.320	545.486	543.168	547.337	545.556	547.337
150.0	569.274	571.177	566.558	568.928	570.606	568.928	566.558	571.177	569.274	571.177
152.5	591.712	593.390	588.961	591.331	592.750	591.331	588.961	593.390	591.712	593.390
155.0	612.783	614.237	610.119	611.970	613.181	611.970	610.119	614.237	612.783	614.237
157.5	631.952	633.249	629.807	631.018	632.090	631.018	629.807	633.249	631.952	633.249
160.0	649.529	651.086	647.401	648.214	649.252	648.214	647.401	651.086	649.529	651.086
162.5	665.168	667.209	662.607	663.611	664.856	663.611	662.607	667.209	665.168	667.209
165.0	679.163	680.997	676.378	677.278	678.350	677.278	676.378	680.997	679.163	680.997
167.5	690.945	692.709	688.263	688.782	690.132	688.782	688.263	692.709	690.945	692.709
170.0	700.788	702.380	698.072	698.626	699.923	698.626	698.072	702.380	700.788	702.380
172.5	708.487	710.027	705.684	706.169	707.484	706.169	705.684	710.027	708.487	710.027
175.0	713.988	715.199	710.995	711.618	712.898	711.618	710.995	715.199	713.988	715.199
177.5	717.414	718.486	714.265	714.853	716.134	714.853	714.265	718.486	717.414	718.486
180.0	717.223	717.223	717.223	717.223	717.223	717.223	717.223	717.223	717.223	717.223

**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	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814	1247.814
2.5	1245.773	1239.268	1241.690	1239.268	1245.773	1254.388	1252.209
5.0	1241.483	1235.549	1237.780	1235.549	1241.483	1250.219	1248.385
7.5	1234.718	1228.940	1231.674	1228.940	1234.718	1242.607	1240.012
10.0	1224.183	1218.231	1219.823	1218.231	1224.183	1231.812	1228.698
12.5	1210.446	1203.423	1206.087	1203.423	1210.446	1218.024	1217.090
15.0	1194.461	1189.756	1189.686	1189.756	1194.461	1201.053	1199.357
17.5	1176.971	1170.483	1172.179	1170.483	1176.971	1182.265	1180.154
20.0	1154.014	1150.865	1151.073	1150.865	1154.014	1161.989	1157.993
22.5	1132.562	1125.555	1128.358	1125.555	1132.562	1137.112	1136.126
25.0	1106.404	1104.000	1101.456	1104.000	1106.404	1114.068	1110.124
27.5	1078.499	1073.967	1073.846	1073.967	1078.499	1083.516	1083.309
30.0	1047.809	1045.439	1043.917	1045.439	1047.809	1054.054	1053.328
32.5	1016.583	1013.088	1009.490	1013.088	1016.583	1022.395	1019.610
35.0	981.706	980.132	977.260	980.132	981.706	986.827	985.633
37.5	945.601	942.660	942.833	942.660	945.601	949.735	949.234
40.0	906.191	906.226	905.326	906.226	906.191	911.520	910.343
42.5	866.713	864.083	864.031	864.083	866.713	868.391	868.910
45.0	824.137	825.020	822.148	825.020	824.137	827.009	827.424
47.5	781.233	780.853	782.444	780.853	781.233	782.012	782.427
50.0	736.150	736.634	736.461	736.634	736.150	738.139	737.551
52.5	689.353	690.339	689.907	690.339	689.353	691.395	692.208
55.0	641.363	642.384	642.263	642.384	641.363	644.615	645.048
57.5	596.452	595.258	595.968	595.258	596.452	596.781	597.058
60.0	546.542	547.407	548.081	547.407	546.542	548.254	549.535
62.5	500.437	497.392	497.427	497.392	500.437	499.693	500.749
65.0	450.786	446.669	448.710	446.669	450.786	448.520	453.952
67.5	399.838	397.762	399.838	397.762	399.838	399.215	402.606
70.0	350.688	349.720	350.550	349.720	350.688	349.893	353.508
72.5	301.055	300.276	303.546	300.276	301.055	302.646	304.791
75.0	254.293	253.116	255.954	253.116	254.293	254.691	258.272
77.5	206.476	207.998	207.929	207.998	206.476	206.891	209.659
80.0	160.423	160.475	162.136	160.475	160.423	161.547	161.980

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**CANDELA TABULATION - (Cont.)**

82.5	116.585	114.664	115.772	114.664	116.585	115.651	118.073
85.0	74.165	73.888	72.747	73.888	74.165	74.909	74.719
87.5	34.133	31.434	30.811	31.434	34.133	33.822	33.199
90.0	6.384	7.958	9.238	7.958	6.384	5.501	5.207
92.5	9.186	9.394	9.186	9.394	9.186	9.394	8.460
95.0	19.636	20.155	19.307	20.155	19.636	20.137	19.065
97.5	33.873	34.029	33.562	34.029	33.873	33.891	34.617
100.0	51.571	51.796	49.686	51.796	51.571	51.900	55.844
102.5	70.809	70.532	69.235	70.532	70.809	72.003	77.694
105.0	91.638	91.015	91.223	91.015	91.638	94.596	99.925
107.5	114.249	113.523	115.339	113.523	114.249	119.595	122.207
110.0	139.542	137.916	141.099	137.916	139.542	145.182	146.099
112.5	166.063	164.056	167.654	164.056	166.063	171.045	171.028
115.0	192.895	190.733	194.521	190.733	192.895	196.891	196.476
117.5	219.451	217.894	221.457	217.894	219.451	223.412	222.582
120.0	246.421	244.916	248.601	244.916	246.421	250.210	249.016
122.5	273.548	272.285	275.831	272.285	273.548	277.302	276.264
125.0	300.709	300.415	302.871	300.415	300.709	304.653	303.563
127.5	327.731	328.510	330.517	328.510	327.731	331.987	330.914
130.0	355.221	356.207	358.975	356.207	355.221	359.511	358.318
132.5	383.126	384.216	387.088	384.216	383.126	387.018	385.911
135.0	410.910	412.484	414.854	412.484	410.910	414.733	413.522
137.5	438.520	440.545	442.448	440.545	438.520	442.309	440.977
140.0	465.664	468.000	470.231	468.000	465.664	469.591	468.328
142.5	492.410	494.797	497.046	494.797	492.410	496.372	495.178
145.0	518.343	520.799	522.823	520.799	518.343	522.322	521.024
147.5	543.168	545.486	547.320	545.486	543.168	547.337	545.556
150.0	566.558	568.928	570.606	568.928	566.558	571.177	569.274
152.5	588.961	591.331	592.750	591.331	588.961	593.390	591.712
155.0	610.119	611.970	613.181	611.970	610.119	614.237	612.783
157.5	629.807	631.018	632.090	631.018	629.807	633.249	631.952
160.0	647.401	648.214	649.252	648.214	647.401	651.086	649.529
162.5	662.607	663.611	664.856	663.611	662.607	667.209	665.168
165.0	676.378	677.278	678.350	677.278	676.378	680.997	679.163
167.5	688.263	688.782	690.132	688.782	688.263	692.709	690.945
170.0	698.072	698.626	699.923	698.626	698.072	702.380	700.788
172.5	705.684	706.169	707.484	706.169	705.684	710.027	708.487
175.0	710.995	711.618	712.898	711.618	710.995	715.199	713.988
177.5	714.265	714.853	716.134	714.853	714.265	718.486	717.414
180.0	717.223	717.223	717.223	717.223	717.223	717.223	717.223

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	455.25	N.A.	8.50
0-30	965.30	N.A.	18.00
0-40	1579.78	N.A.	29.50
0-60	2791.37	N.A.	52.10
0-80	3505.19	N.A.	65.40
0-90	3588.69	N.A.	66.90
10-90	3470.65	N.A.	64.70
20-40	1124.53	N.A.	21.00
20-50	1760.83	N.A.	32.80
40-70	1656.31	N.A.	30.90
60-80	713.82	N.A.	13.30
70-80	269.10	N.A.	5.00
80-90	83.51	N.A.	1.60
90-110	124.81	N.A.	2.30
90-120	316.93	N.A.	5.90
90-130	587.22	N.A.	11.00
90-150	1231.29	N.A.	23.00
90-180	1771.83	N.A.	33.10
110-180	1647.02	N.A.	30.70
0-180	5360.52	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.05
10-20	337.20
20-30	510.05
30-40	614.48
40-50	636.29
50-60	575.29
60-70	444.72
70-80	269.10
80-90	83.51
90-100	25.12
100-110	99.69
110-120	192.12
120-130	270.29
130-140	318.64
140-150	325.43
150-160	281.78
160-170	191.14
170-180	67.63

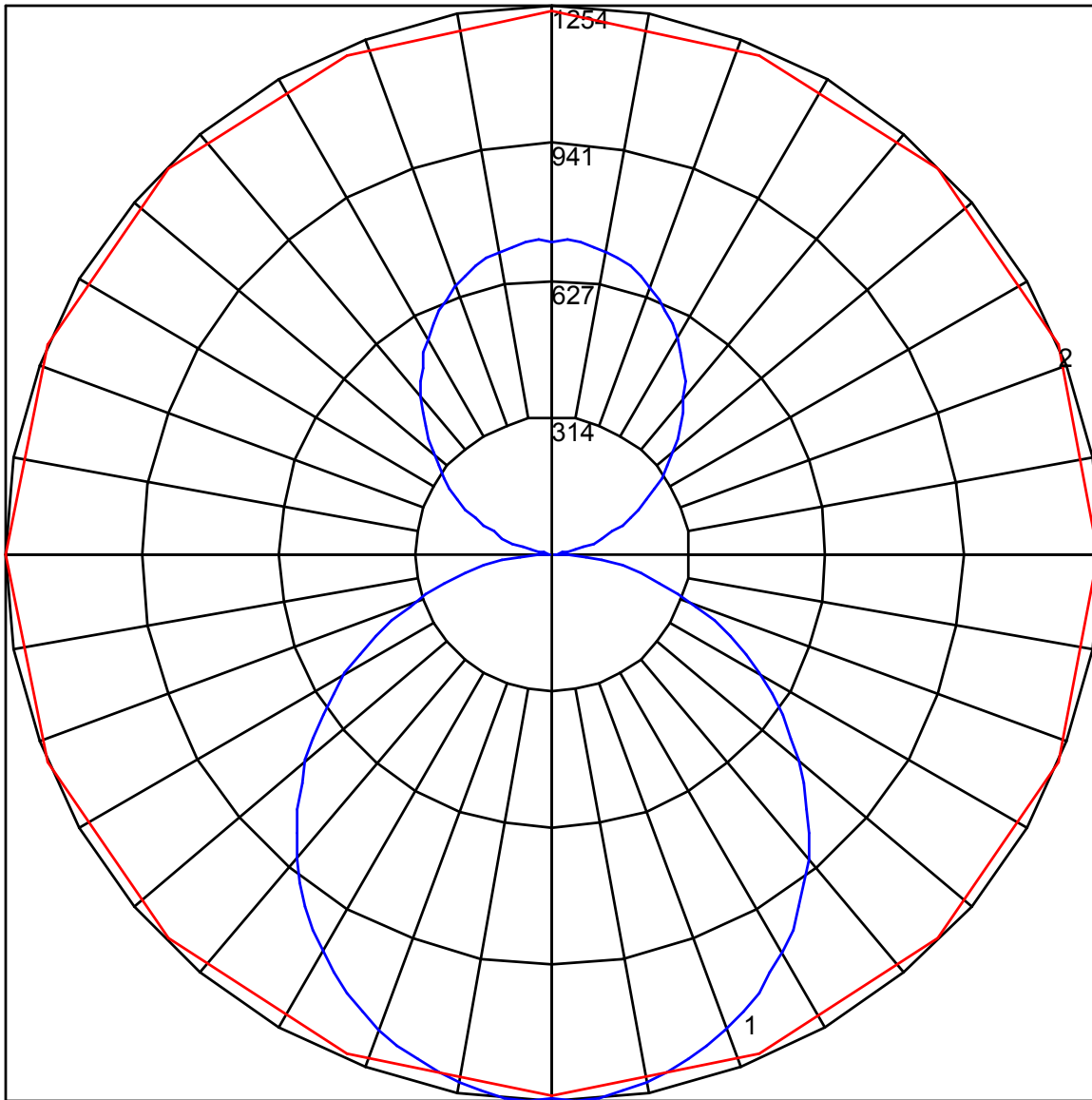
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1254.388 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.)