



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : C-20-LED35-MO-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] C-20-LED35-MO-D9  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 3, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2007
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	28
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)	2.08 ft (Diameter)
Luminous Width (90-270)	1.67 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>	453.402	453.402	453.402	453.402	453.402	453.402	453.402	453.402	453.402	453.402
<b>2.5</b>	453.862	452.902	452.672	452.480	452.813	452.480	452.672	452.902	453.862	452.902
<b>5.0</b>	451.968	451.238	450.982	450.726	451.162	450.726	450.982	451.238	451.968	451.238
<b>7.5</b>	449.126	448.410	448.320	448.077	448.410	448.077	448.320	448.410	449.126	448.410
<b>10.0</b>	445.184	444.301	444.250	444.058	444.480	444.058	444.250	444.301	445.184	444.301
<b>12.5</b>	440.141	439.373	439.194	438.989	439.360	438.989	439.194	439.373	440.141	439.373
<b>15.0</b>	434.278	433.498	433.267	433.165	433.549	433.165	433.267	433.498	434.278	433.498
<b>17.5</b>	427.366	426.714	426.611	426.445	426.701	426.445	426.611	426.714	427.366	426.714
<b>20.0</b>	419.430	418.918	418.982	418.854	418.982	418.854	418.982	418.918	419.430	418.918
<b>22.5</b>	411.034	410.381	410.483	410.266	410.547	410.266	410.483	410.381	411.034	410.381
<b>25.0</b>	401.190	401.050	401.126	400.742	401.114	400.742	401.126	401.050	401.190	401.050
<b>27.5</b>	390.566	390.835	390.874	390.387	390.822	390.387	390.874	390.835	390.566	390.835
<b>30.0</b>	379.430	379.674	379.891	379.328	379.546	379.328	379.891	379.674	379.430	379.674
<b>32.5</b>	367.642	367.770	368.077	367.526	367.680	367.526	368.077	367.770	367.642	367.770
<b>35.0</b>	354.854	355.162	355.469	354.893	355.162	354.893	355.469	355.162	354.854	355.162
<b>37.5</b>	340.915	341.811	342.118	341.606	341.773	341.606	342.118	341.811	340.915	341.811
<b>40.0</b>	326.464	327.757	328.038	327.578	327.680	327.578	328.038	327.757	326.464	327.757
<b>42.5</b>	311.782	312.896	313.267	312.960	313.126	312.960	313.267	312.896	311.782	312.896
<b>45.0</b>	296.614	297.574	297.971	297.677	297.907	297.677	297.971	297.574	296.614	297.574
<b>47.5</b>	280.730	281.690	282.099	281.882	282.189	281.882	282.099	281.690	280.730	281.690
<b>50.0</b>	264.218	265.357	265.779	265.600	265.984	265.600	265.779	265.357	264.218	265.357
<b>52.5</b>	247.501	248.704	249.165	249.152	249.549	249.152	249.165	248.704	247.501	248.704
<b>55.0</b>	230.746	231.731	232.243	232.499	232.717	232.499	232.243	231.731	230.746	231.731
<b>57.5</b>	213.709	214.413	215.002	215.334	215.450	215.334	215.002	214.413	213.709	214.413
<b>60.0</b>	196.237	196.902	197.594	197.901	197.990	197.901	197.594	196.902	196.237	196.902
<b>62.5</b>	178.598	179.315	180.173	180.288	180.723	180.288	180.173	179.315	178.598	179.315
<b>65.0</b>	161.216	161.664	162.317	162.790	162.995	162.790	162.317	161.664	161.216	161.664
<b>67.5</b>	144.141	144.013	144.576	145.280	145.997	145.280	144.576	144.013	144.141	144.013
<b>70.0</b>	127.629	126.541	126.976	127.642	127.590	127.642	126.976	126.541	127.629	126.541
<b>72.5</b>	110.054	109.274	109.581	110.131	110.195	110.131	109.581	109.274	110.054	109.274
<b>75.0</b>	93.722	92.416	92.634	93.082	93.146	93.082	92.634	92.416	93.722	92.416
<b>77.5</b>	77.862	76.262	76.109	76.582	76.480	76.582	76.109	76.262	77.862	76.262
<b>80.0</b>	62.374	60.595	60.224	60.634	60.326	60.634	60.224	60.595	62.374	60.595
<b>82.5</b>	47.296	45.427	44.864	45.171	44.736	45.171	44.864	45.427	47.296	45.427
<b>85.0</b>	32.525	30.707	30.080	30.131	29.786	30.131	30.080	30.707	32.525	30.707
<b>87.5</b>	18.125	16.333	15.693	15.552	15.194	15.552	15.693	16.333	18.125	16.333
<b>90.0</b>	3.264	3.379	3.354	2.970	2.598	2.970	3.354	3.379	3.264	3.379
<b>92.5</b>	2.854	3.059	3.238	3.635	4.954	3.635	3.238	3.059	2.854	3.059
<b>95.0</b>	4.544	4.838	5.466	8.013	9.651	8.013	5.466	4.838	4.544	4.838
<b>97.5</b>	7.565	8.077	9.971	15.488	17.293	15.488	9.971	8.077	7.565	8.077
<b>100.0</b>	12.531	13.542	17.037	24.154	25.357	24.154	17.037	13.542	12.531	13.542
<b>102.5</b>	19.405	21.094	26.419	32.883	33.293	32.883	26.419	21.094	19.405	21.094
<b>105.0</b>	27.866	30.400	36.941	41.728	41.766	41.728	36.941	30.400	27.866	30.400
<b>107.5</b>	37.837	41.037	47.539	50.803	50.701	50.803	47.539	41.037	37.837	41.037
<b>110.0</b>	49.459	52.518	57.856	60.122	60.006	60.122	57.856	52.518	49.459	52.518
<b>112.5</b>	61.670	63.962	68.045	69.645	69.658	69.645	68.045	63.962	61.670	63.962
<b>115.0</b>	73.702	75.098	78.259	79.424	79.680	79.424	78.259	75.098	73.702	75.098
<b>117.5</b>	85.274	86.029	88.538	89.600	89.907	89.600	88.538	86.029	85.274	86.029
<b>120.0</b>	96.448	96.947	98.970	100.019	100.186	100.019	98.970	96.947	96.448	96.947
<b>122.5</b>	107.520	107.853	109.632	110.515	110.618	110.515	109.632	107.853	107.520	107.853
<b>125.0</b>	118.707	118.810	120.435	121.229	121.344	121.229	120.435	118.810	118.707	118.810
<b>127.5</b>	130.163	129.894	131.430	132.147	132.262	132.147	131.430	129.894	130.163	129.894
<b>130.0</b>	141.645	141.274	142.656	143.206	143.334	143.206	142.656	141.274	141.645	141.274
<b>132.5</b>	152.870	152.691	153.997	154.330	154.509	154.330	153.997	152.691	152.870	152.691

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**CANDELA TABULATION - (Cont.)**

135.0	163.942	163.827	165.299	165.466	165.581	165.466	165.299	163.827	163.942	163.827
137.5	175.206	174.822	176.410	176.486	176.755	176.486	176.410	174.822	175.206	174.822
140.0	186.458	185.766	187.354	187.366	187.802	187.366	187.354	185.766	186.458	185.766
142.5	197.376	196.595	198.208	198.093	198.477	198.093	198.208	196.595	197.376	196.595
145.0	208.026	207.117	208.653	208.461	208.730	208.461	208.653	207.117	208.026	207.117
147.5	218.266	217.165	218.675	218.419	218.650	218.419	218.675	217.165	218.266	217.165
150.0	227.968	226.778	228.083	227.891	228.160	227.891	228.083	226.778	227.968	226.778
152.5	237.069	235.891	237.030	236.851	236.979	236.851	237.030	235.891	237.069	235.891
155.0	245.606	244.390	245.504	245.184	245.261	245.184	245.504	244.390	245.606	244.390
157.5	253.709	252.134	253.325	252.902	252.954	252.902	253.325	252.134	253.709	252.134
160.0	261.069	259.187	260.570	259.981	259.891	259.981	260.570	259.187	261.069	259.187
162.5	267.443	265.523	266.816	266.202	265.805	266.202	266.816	265.523	267.443	265.523
165.0	273.075	271.142	272.256	271.578	271.270	271.578	272.256	271.142	273.075	271.142
167.5	277.888	275.955	277.082	276.403	276.083	276.403	277.082	275.955	277.888	275.955
170.0	282.048	279.936	281.088	280.435	279.910	280.435	281.088	279.936	282.048	279.936
172.5	285.466	283.149	284.365	283.546	282.918	283.546	284.365	283.149	285.466	283.149
175.0	287.910	285.619	286.746	285.619	285.120	285.619	286.746	285.619	287.910	285.619
177.5	289.216	286.938	287.974	286.976	286.362	286.976	287.974	286.938	289.216	286.938
180.0	287.859	287.859	287.859	287.859	287.859	287.859	287.859	287.859	287.859	287.859

Vert. Angles	Horizontal Angles						
	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	453.402	453.402	453.402	453.402	453.402	453.402	453.402
2.5	452.672	452.480	452.813	452.480	452.672	452.902	453.862
5.0	450.982	450.726	451.162	450.726	450.982	451.238	451.968
7.5	448.320	448.077	448.410	448.077	448.320	448.410	449.126
10.0	444.250	444.058	444.480	444.058	444.250	444.301	445.184
12.5	439.194	438.989	439.360	438.989	439.194	439.373	440.141
15.0	433.267	433.165	433.549	433.165	433.267	433.498	434.278
17.5	426.611	426.445	426.701	426.445	426.611	426.714	427.366
20.0	418.982	418.854	418.982	418.854	418.982	418.918	419.430
22.5	410.483	410.266	410.547	410.266	410.483	410.381	411.034
25.0	401.126	400.742	401.114	400.742	401.126	401.050	401.190
27.5	390.874	390.387	390.822	390.387	390.874	390.835	390.566
30.0	379.891	379.328	379.546	379.328	379.891	379.674	379.430
32.5	368.077	367.526	367.680	367.526	368.077	367.770	367.642
35.0	355.469	354.893	355.162	354.893	355.469	355.162	354.854
37.5	342.118	341.606	341.773	341.606	342.118	341.811	340.915
40.0	328.038	327.578	327.680	327.578	328.038	327.757	326.464
42.5	313.267	312.960	313.126	312.960	313.267	312.896	311.782
45.0	297.971	297.677	297.907	297.677	297.971	297.574	296.614
47.5	282.099	281.882	282.189	281.882	282.099	281.690	280.730
50.0	265.779	265.600	265.984	265.600	265.779	265.357	264.218
52.5	249.165	249.152	249.549	249.152	249.165	248.704	247.501
55.0	232.243	232.499	232.717	232.499	232.243	231.731	230.746
57.5	215.002	215.334	215.450	215.334	215.002	214.413	213.709
60.0	197.594	197.901	197.990	197.901	197.594	196.902	196.237
62.5	180.173	180.288	180.723	180.288	180.173	179.315	178.598
65.0	162.317	162.790	162.995	162.790	162.317	161.664	161.216
67.5	144.576	145.280	145.997	145.280	144.576	144.013	144.141
70.0	126.976	127.642	127.590	127.642	126.976	126.541	127.629
72.5	109.581	110.131	110.195	110.131	109.581	109.274	110.054
75.0	92.634	93.082	93.146	93.082	92.634	92.416	93.722
77.5	76.109	76.582	76.480	76.582	76.109	76.262	77.862
80.0	60.224	60.634	60.326	60.634	60.224	60.595	62.374

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CANDELA TABULATION - (Cont.)

82.5	44.864	45.171	44.736	45.171	44.864	45.427	47.296
85.0	30.080	30.131	29.786	30.131	30.080	30.707	32.525
87.5	15.693	15.552	15.194	15.552	15.693	16.333	18.125
90.0	3.354	2.970	2.598	2.970	3.354	3.379	3.264
92.5	3.238	3.635	4.954	3.635	3.238	3.059	2.854
95.0	5.466	8.013	9.651	8.013	5.466	4.838	4.544
97.5	9.971	15.488	17.293	15.488	9.971	8.077	7.565
100.0	17.037	24.154	25.357	24.154	17.037	13.542	12.531
102.5	26.419	32.883	33.293	32.883	26.419	21.094	19.405
105.0	36.941	41.728	41.766	41.728	36.941	30.400	27.866
107.5	47.539	50.803	50.701	50.803	47.539	41.037	37.837
110.0	57.856	60.122	60.006	60.122	57.856	52.518	49.459
112.5	68.045	69.645	69.658	69.645	68.045	63.962	61.670
115.0	78.259	79.424	79.680	79.424	78.259	75.098	73.702
117.5	88.538	89.600	89.907	89.600	88.538	86.029	85.274
120.0	98.970	100.019	100.186	100.019	98.970	96.947	96.448
122.5	109.632	110.515	110.618	110.515	109.632	107.853	107.520
125.0	120.435	121.229	121.344	121.229	120.435	118.810	118.707
127.5	131.430	132.147	132.262	132.147	131.430	129.894	130.163
130.0	142.656	143.206	143.334	143.206	142.656	141.274	141.645
132.5	153.997	154.330	154.509	154.330	153.997	152.691	152.870
135.0	165.299	165.466	165.581	165.466	165.299	163.827	163.942
137.5	176.410	176.486	176.755	176.486	176.410	174.822	175.206
140.0	187.354	187.366	187.802	187.366	187.354	185.766	186.458
142.5	198.208	198.093	198.477	198.093	198.208	196.595	197.376
145.0	208.653	208.461	208.730	208.461	208.653	207.117	208.026
147.5	218.675	218.419	218.650	218.419	218.675	217.165	218.266
150.0	228.083	227.891	228.160	227.891	228.083	226.778	227.968
152.5	237.030	236.851	236.979	236.851	237.030	235.891	237.069
155.0	245.504	245.184	245.261	245.184	245.504	244.390	245.606
157.5	253.325	252.902	252.954	252.902	253.325	252.134	253.709
160.0	260.570	259.981	259.891	259.981	260.570	259.187	261.069
162.5	266.816	266.202	265.805	266.202	266.816	265.523	267.443
165.0	272.256	271.578	271.270	271.578	272.256	271.142	273.075
167.5	277.082	276.403	276.083	276.403	277.082	275.955	277.888
170.0	281.088	280.435	279.910	280.435	281.088	279.936	282.048
172.5	284.365	283.546	282.918	283.546	284.365	283.149	285.466
175.0	286.746	285.619	285.120	285.619	286.746	285.619	287.910
177.5	287.974	286.976	286.362	286.976	287.974	286.938	289.216
180.0	287.859	287.859	287.859	287.859	287.859	287.859	287.859

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	165.17	N.A.	8.20
0-30	349.95	N.A.	17.40
0-40	572.05	N.A.	28.50
0-60	1008.94	N.A.	50.30
0-80	1268.00	N.A.	63.20
0-90	1301.71	N.A.	64.90
10-90	1258.86	N.A.	62.70
20-40	406.88	N.A.	20.30
20-50	636.39	N.A.	31.70
40-70	597.52	N.A.	29.80
60-80	259.06	N.A.	12.90
70-80	98.43	N.A.	4.90
80-90	33.71	N.A.	1.70
90-110	47.18	N.A.	2.40
90-120	123.74	N.A.	6.20
90-130	231.25	N.A.	11.50
90-150	488.45	N.A.	24.30
90-180	704.99	N.A.	35.10
110-180	657.81	N.A.	32.80
0-180	2006.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	42.85
10-20	122.32
20-30	184.78
30-40	222.09
40-50	229.51
50-60	207.38
60-70	160.63
70-80	98.43
80-90	33.71
90-100	8.73
100-110	38.45
110-120	76.55
120-130	107.52
130-140	127.14
140-150	130.06
150-160	112.80
160-170	76.59
170-180	27.14

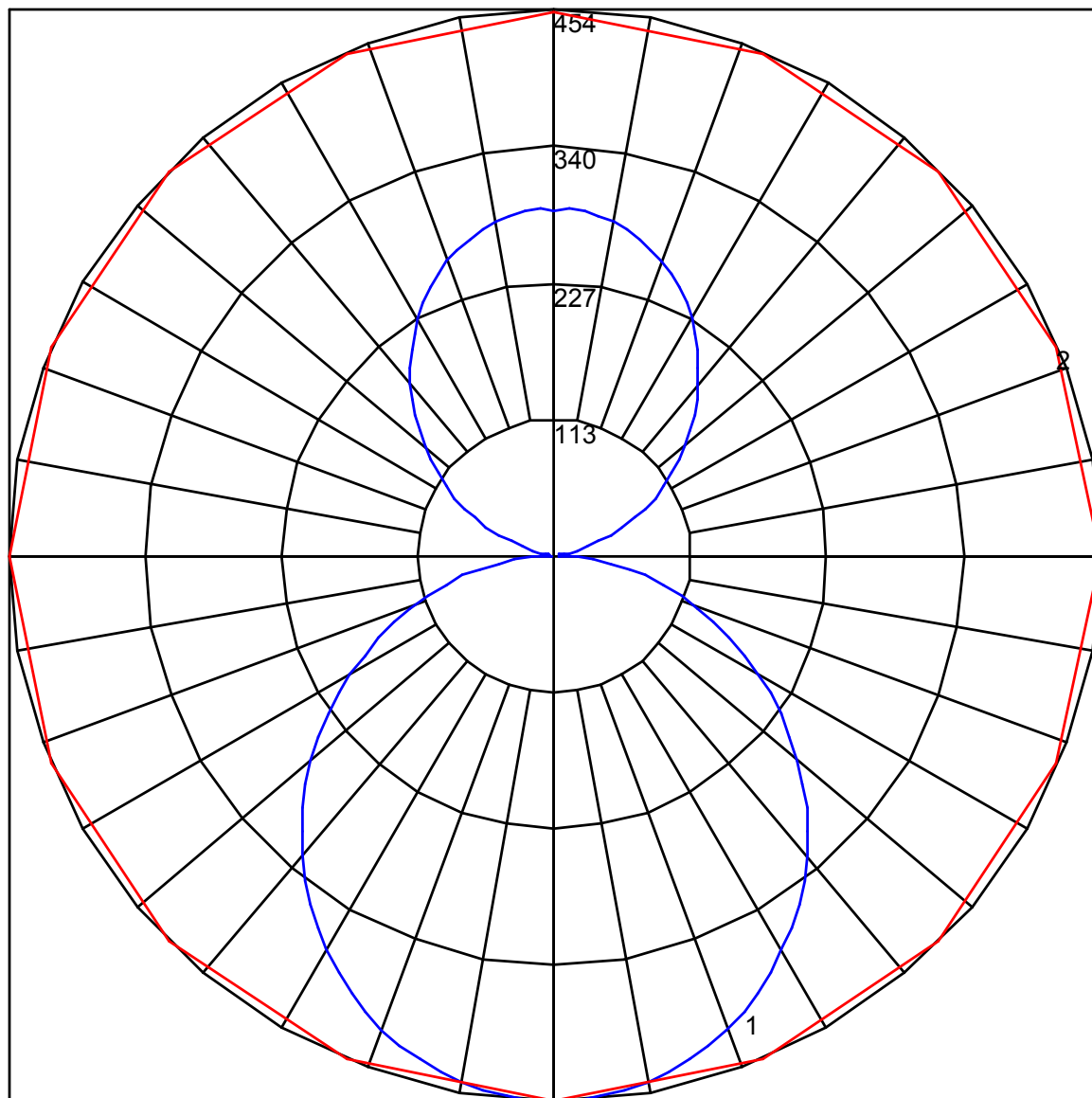
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	101	96	92	88	94	90	87	83	80	77	74	70	68	66	61	60	58	54
2	91	84	77	72	86	79	73	68	70	65	61	61	58	55	53	51	48	45
3	83	73	66	59	78	69	62	57	61	56	51	54	50	46	47	44	41	37
4	76	65	56	50	71	61	54	48	54	48	43	48	43	39	42	38	35	32
5	70	58	49	43	65	54	47	41	48	42	37	43	38	34	38	34	30	28
6	64	52	43	37	60	49	41	36	44	37	33	39	34	30	34	30	27	24
7	60	47	38	33	56	44	37	31	40	33	29	35	30	26	31	27	24	21
8	55	42	34	29	52	40	33	28	36	30	26	32	27	23	29	24	21	19
9	51	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	23	45	34	27	22	31	25	21	27	22	19	24	20	17	15

POLAR GRAPH



Maximum Candela = 453.862 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.)