



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] C-20-LED35-SO-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	4076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	62
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C-20-LED35-HO-D9.IES**

**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>	920.972	920.972	920.972	920.972	920.972	920.972	920.972	920.972	920.972	920.972
<b>2.5</b>	921.908	919.958	919.490	919.100	919.776	919.100	919.490	919.958	921.908	919.958
<b>5.0</b>	918.060	916.578	916.058	915.538	916.422	915.538	916.058	916.578	918.060	916.578
<b>7.5</b>	912.288	910.832	910.650	910.156	910.832	910.156	910.650	910.832	912.288	910.832
<b>10.0</b>	904.280	902.486	902.382	901.992	902.850	901.992	902.382	902.486	904.280	902.486
<b>12.5</b>	894.036	892.476	892.112	891.696	892.450	891.696	892.112	892.476	894.036	892.476
<b>15.0</b>	882.128	880.542	880.074	879.866	880.646	879.866	880.074	880.542	882.128	880.542
<b>17.5</b>	868.088	866.762	866.554	866.216	866.736	866.216	866.554	866.762	868.088	866.762
<b>20.0</b>	851.968	850.928	851.058	850.798	851.058	850.798	851.058	850.928	851.968	850.928
<b>22.5</b>	834.912	833.586	833.794	833.352	833.924	833.352	833.794	833.586	834.912	833.586
<b>25.0</b>	814.918	814.632	814.788	814.008	814.762	814.008	814.788	814.632	814.918	814.632
<b>27.5</b>	793.338	793.884	793.962	792.974	793.858	792.974	793.962	793.884	793.338	793.884
<b>30.0</b>	770.718	771.212	771.654	770.510	770.952	770.510	771.654	771.212	770.718	771.212
<b>32.5</b>	746.772	747.032	747.656	746.538	746.850	746.538	747.656	747.032	746.772	747.032
<b>35.0</b>	720.798	721.422	722.046	720.876	721.422	720.876	722.046	721.422	720.798	721.422
<b>37.5</b>	692.484	694.304	694.928	693.888	694.226	693.888	694.928	694.304	692.484	694.304
<b>40.0</b>	663.130	665.756	666.328	665.392	665.600	665.392	666.328	665.756	663.130	665.756
<b>42.5</b>	633.308	635.570	636.324	635.700	636.038	635.700	636.324	635.570	633.308	635.570
<b>45.0</b>	602.498	604.448	605.254	604.656	605.124	604.656	605.254	604.448	602.498	604.448
<b>47.5</b>	570.232	572.182	573.014	572.572	573.196	572.572	573.014	572.182	570.232	572.182
<b>50.0</b>	536.692	539.006	539.864	539.500	540.280	539.500	539.864	539.006	536.692	539.006
<b>52.5</b>	502.736	505.180	506.116	506.090	506.896	506.090	506.116	505.180	502.736	505.180
<b>55.0</b>	468.702	470.704	471.744	472.264	472.706	472.264	471.744	470.704	468.702	470.704
<b>57.5</b>	434.096	435.526	436.722	437.398	437.632	437.398	436.722	435.526	434.096	435.526
<b>60.0</b>	398.606	399.958	401.362	401.986	402.168	401.986	401.362	399.958	398.606	399.958
<b>62.5</b>	362.778	364.234	365.976	366.210	367.094	366.210	365.976	364.234	362.778	364.234
<b>65.0</b>	327.470	328.380	329.706	330.668	331.084	330.668	329.706	328.380	327.470	328.380
<b>67.5</b>	292.786	292.526	293.670	295.100	296.556	295.100	293.670	292.526	292.786	292.526
<b>70.0</b>	259.246	257.036	257.920	259.272	259.168	259.272	257.920	257.036	259.246	257.036
<b>72.5</b>	223.548	221.962	222.586	223.704	223.834	223.704	222.586	221.962	223.548	221.962
<b>75.0</b>	190.372	187.720	188.162	189.072	189.202	189.072	188.162	187.720	190.372	187.720
<b>77.5</b>	158.158	154.908	154.596	155.558	155.350	155.558	154.596	154.908	158.158	154.908
<b>80.0</b>	126.698	123.084	122.330	123.162	122.538	123.162	122.330	123.084	126.698	123.084
<b>82.5</b>	96.070	92.274	91.130	91.754	90.870	91.754	91.130	92.274	96.070	92.274
<b>85.0</b>	66.066	62.374	61.100	61.204	60.502	61.204	61.100	62.374	66.066	62.374
<b>87.5</b>	36.816	33.176	31.876	31.590	30.862	31.590	31.876	33.176	36.816	33.176
<b>90.0</b>	6.630	6.864	6.812	6.032	5.278	6.032	6.812	6.864	6.630	6.864
<b>92.5</b>	5.798	6.214	6.578	7.384	10.062	7.384	6.578	6.214	5.798	6.214
<b>95.0</b>	9.230	9.828	11.102	16.276	19.604	16.276	11.102	9.828	9.230	9.828
<b>97.5</b>	15.366	16.406	20.254	31.460	35.126	31.460	20.254	16.406	15.366	16.406
<b>100.0</b>	25.454	27.508	34.606	49.062	51.506	49.062	34.606	27.508	25.454	27.508
<b>102.5</b>	39.416	42.848	53.664	66.794	67.626	66.794	53.664	42.848	39.416	42.848
<b>105.0</b>	56.602	61.750	75.036	84.760	84.838	84.760	75.036	61.750	56.602	61.750
<b>107.5</b>	76.856	83.356	96.564	103.194	102.986	103.194	96.564	83.356	76.856	83.356
<b>110.0</b>	100.464	106.678	117.520	122.122	121.888	122.122	106.678	100.464	100.464	106.678
<b>112.5</b>	125.268	129.922	138.216	141.466	141.492	141.466	138.216	129.922	125.268	129.922
<b>115.0</b>	149.708	152.542	158.964	161.330	161.850	161.330	158.964	152.542	149.708	152.542
<b>117.5</b>	173.212	174.746	179.842	182.000	182.624	182.000	179.842	174.746	173.212	174.746
<b>120.0</b>	195.910	196.924	201.032	203.164	203.502	203.164	201.032	196.924	195.910	196.924
<b>122.5</b>	218.400	219.076	222.690	224.484	224.692	224.484	222.690	219.076	218.400	219.076
<b>125.0</b>	241.124	241.332	244.634	246.246	246.480	246.246	244.634	241.332	241.124	241.332
<b>127.5</b>	264.394	263.848	266.968	268.424	268.658	268.424	266.968	263.848	264.394	263.848
<b>130.0</b>	287.716	286.962	289.770	290.888	291.148	290.888	289.770	286.962	287.716	286.962
<b>132.5</b>	310.518	310.154	312.806	313.482	313.846	313.482	312.806	310.154	310.518	310.154

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C-20-LED35-HO-D9.IES**

**CANDELA TABULATION - (Cont.)**

135.0	333.008	332.774	335.764	336.102	336.336	336.102	335.764	332.774	333.008	332.774
137.5	355.888	355.108	358.332	358.488	359.034	358.488	358.332	355.108	355.888	355.108
140.0	378.742	377.338	380.562	380.588	381.472	380.588	380.562	377.338	378.742	377.338
142.5	400.920	399.334	402.610	402.376	403.156	402.376	402.610	399.334	400.920	399.334
145.0	422.552	420.706	423.826	423.436	423.982	423.436	423.826	420.706	422.552	420.706
147.5	443.352	441.116	444.184	443.664	444.132	443.664	444.184	441.116	443.352	441.116
150.0	463.060	460.642	463.294	462.904	463.450	462.904	463.294	460.642	463.060	460.642
152.5	481.546	479.154	481.468	481.104	481.364	481.104	481.468	479.154	481.546	479.154
155.0	498.888	496.418	498.680	498.030	498.186	498.030	498.680	496.418	498.888	496.418
157.5	515.346	512.148	514.566	513.708	513.812	513.708	514.566	512.148	515.346	512.148
160.0	530.296	526.474	529.282	528.086	527.904	528.086	529.282	526.474	530.296	526.474
162.5	543.244	539.344	541.970	540.722	539.916	540.722	541.970	539.344	543.244	539.344
165.0	554.684	550.758	553.020	551.642	551.018	551.642	553.020	550.758	554.684	550.758
167.5	564.460	560.534	562.822	561.444	560.794	561.444	562.822	560.534	564.460	560.534
170.0	572.910	568.620	570.960	569.634	568.568	569.634	570.960	568.620	572.910	568.620
172.5	579.852	575.146	577.616	575.952	574.678	575.952	577.616	575.146	579.852	575.146
175.0	584.818	580.164	582.452	580.164	579.150	580.164	582.452	580.164	584.818	580.164
177.5	587.470	582.842	584.948	582.920	581.672	582.920	584.948	582.842	587.470	582.842
180.0	584.714	584.714	584.714	584.714	584.714	584.714	584.714	584.714	584.714	584.714

**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	920.972	920.972	920.972	920.972	920.972	920.972	920.972
2.5	919.490	919.100	919.776	919.100	919.490	919.958	921.908
5.0	916.058	915.538	916.422	915.538	916.058	916.578	918.060
7.5	910.650	910.156	910.832	910.156	910.650	910.832	912.288
10.0	902.382	901.992	902.850	901.992	902.382	902.486	904.280
12.5	892.112	891.696	892.450	891.696	892.112	892.476	894.036
15.0	880.074	879.866	880.646	879.866	880.074	880.542	882.128
17.5	866.554	866.216	866.736	866.216	866.554	866.762	868.088
20.0	851.058	850.798	851.058	850.798	851.058	850.928	851.968
22.5	833.794	833.352	833.924	833.352	833.794	833.586	834.912
25.0	814.788	814.008	814.762	814.008	814.788	814.632	814.918
27.5	793.962	792.974	793.858	792.974	793.962	793.884	793.338
30.0	771.654	770.510	770.952	770.510	771.654	771.212	770.718
32.5	747.656	746.538	746.850	746.538	747.656	747.032	746.772
35.0	722.046	720.876	721.422	720.876	722.046	721.422	720.798
37.5	694.928	693.888	694.226	693.888	694.928	694.304	692.484
40.0	666.328	665.392	665.600	665.392	666.328	665.756	663.130
42.5	636.324	635.700	636.038	635.700	636.324	635.570	633.308
45.0	605.254	604.656	605.124	604.656	605.254	604.448	602.498
47.5	573.014	572.572	573.196	572.572	573.014	572.182	570.232
50.0	539.864	539.500	540.280	539.500	539.864	539.006	536.692
52.5	506.116	506.090	506.896	506.090	506.116	505.180	502.736
55.0	471.744	472.264	472.706	472.264	471.744	470.704	468.702
57.5	436.722	437.398	437.632	437.398	436.722	435.526	434.096
60.0	401.362	401.986	402.168	401.986	401.362	399.958	398.606
62.5	365.976	366.210	367.094	366.210	365.976	364.234	362.778
65.0	329.706	330.668	331.084	330.668	329.706	328.380	327.470
67.5	293.670	295.100	296.556	295.100	293.670	292.526	292.786
70.0	257.920	259.272	259.168	259.272	257.920	257.036	259.246
72.5	222.586	223.704	223.834	223.704	222.586	221.962	223.548
75.0	188.162	189.072	189.202	189.072	188.162	187.720	190.372
77.5	154.596	155.558	155.350	155.558	154.596	154.908	158.158
80.0	122.330	123.162	122.538	123.162	122.330	123.084	126.698

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C-20-LED35-HO-D9.IES**

**CANDELA TABULATION - (Cont.)**

82.5	91.130	91.754	90.870	91.754	91.130	92.274	96.070
85.0	61.100	61.204	60.502	61.204	61.100	62.374	66.066
87.5	31.876	31.590	30.862	31.590	31.876	33.176	36.816
90.0	6.812	6.032	5.278	6.032	6.812	6.864	6.630
92.5	6.578	7.384	10.062	7.384	6.578	6.214	5.798
95.0	11.102	16.276	19.604	16.276	11.102	9.828	9.230
97.5	20.254	31.460	35.126	31.460	20.254	16.406	15.366
100.0	34.606	49.062	51.506	49.062	34.606	27.508	25.454
102.5	53.664	66.794	67.626	66.794	53.664	42.848	39.416
105.0	75.036	84.760	84.838	84.760	75.036	61.750	56.602
107.5	96.564	103.194	102.986	103.194	96.564	83.356	76.856
110.0	117.520	122.122	121.888	122.122	117.520	106.678	100.464
112.5	138.216	141.466	141.492	141.466	138.216	129.922	125.268
115.0	158.964	161.330	161.850	161.330	158.964	152.542	149.708
117.5	179.842	182.000	182.624	182.000	179.842	174.746	173.212
120.0	201.032	203.164	203.502	203.164	201.032	196.924	195.910
122.5	222.690	224.484	224.692	224.484	222.690	219.076	218.400
125.0	244.634	246.246	246.480	246.246	244.634	241.332	241.124
127.5	266.968	268.424	268.658	268.424	266.968	263.848	264.394
130.0	289.770	290.888	291.148	290.888	289.770	286.962	287.716
132.5	312.806	313.482	313.846	313.482	312.806	310.154	310.518
135.0	335.764	336.102	336.336	336.102	335.764	332.774	333.008
137.5	358.332	358.488	359.034	358.488	358.332	355.108	355.888
140.0	380.562	380.588	381.472	380.588	380.562	377.338	378.742
142.5	402.610	402.376	403.156	402.376	402.610	399.334	400.920
145.0	423.826	423.436	423.982	423.436	423.826	420.706	422.552
147.5	444.184	443.664	444.132	443.664	444.184	441.116	443.352
150.0	463.294	462.904	463.450	462.904	463.294	460.642	463.060
152.5	481.468	481.104	481.364	481.104	481.468	479.154	481.546
155.0	498.680	498.030	498.186	498.030	498.680	496.418	498.888
157.5	514.566	513.708	513.812	513.708	514.566	512.148	515.346
160.0	529.282	528.086	527.904	528.086	529.282	526.474	530.296
162.5	541.970	540.722	539.916	540.722	541.970	539.344	543.244
165.0	553.020	551.642	551.018	551.642	553.020	550.758	554.684
167.5	562.822	561.444	560.794	561.444	562.822	560.534	564.460
170.0	570.960	569.634	568.568	569.634	570.960	568.620	572.910
172.5	577.616	575.952	574.678	575.952	577.616	575.146	579.852
175.0	582.452	580.164	579.150	580.164	582.452	580.164	584.818
177.5	584.948	582.920	581.672	582.920	584.948	582.842	587.470
180.0	584.714	584.714	584.714	584.714	584.714	584.714	584.714

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C-20-LED35-HO-D9.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	335.50	N.A.	8.20
0-30	710.84	N.A.	17.40
0-40	1161.97	N.A.	28.50
0-60	2049.4	N.A.	50.30
0-80	2575.62	N.A.	63.20
0-90	2644.11	N.A.	64.90
10-90	2557.06	N.A.	62.70
20-40	826.47	N.A.	20.30
20-50	1292.67	N.A.	31.70
40-70	1213.72	N.A.	29.80
60-80	526.22	N.A.	12.90
70-80	199.94	N.A.	4.90
80-90	68.48	N.A.	1.70
90-110	95.84	N.A.	2.40
90-120	251.34	N.A.	6.20
90-130	469.73	N.A.	11.50
90-150	992.17	N.A.	24.30
90-180	1432.01	N.A.	35.10
110-180	1336.17	N.A.	32.80
0-180	4076.11	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.04
10-20	248.46
20-30	375.34
30-40	451.13
40-50	466.20
50-60	421.23
60-70	326.29
70-80	199.94
80-90	68.48
90-100	17.74
100-110	78.10
110-120	155.50
120-130	218.40
130-140	258.25
140-150	264.19
150-160	229.13
160-170	155.58
170-180	55.12

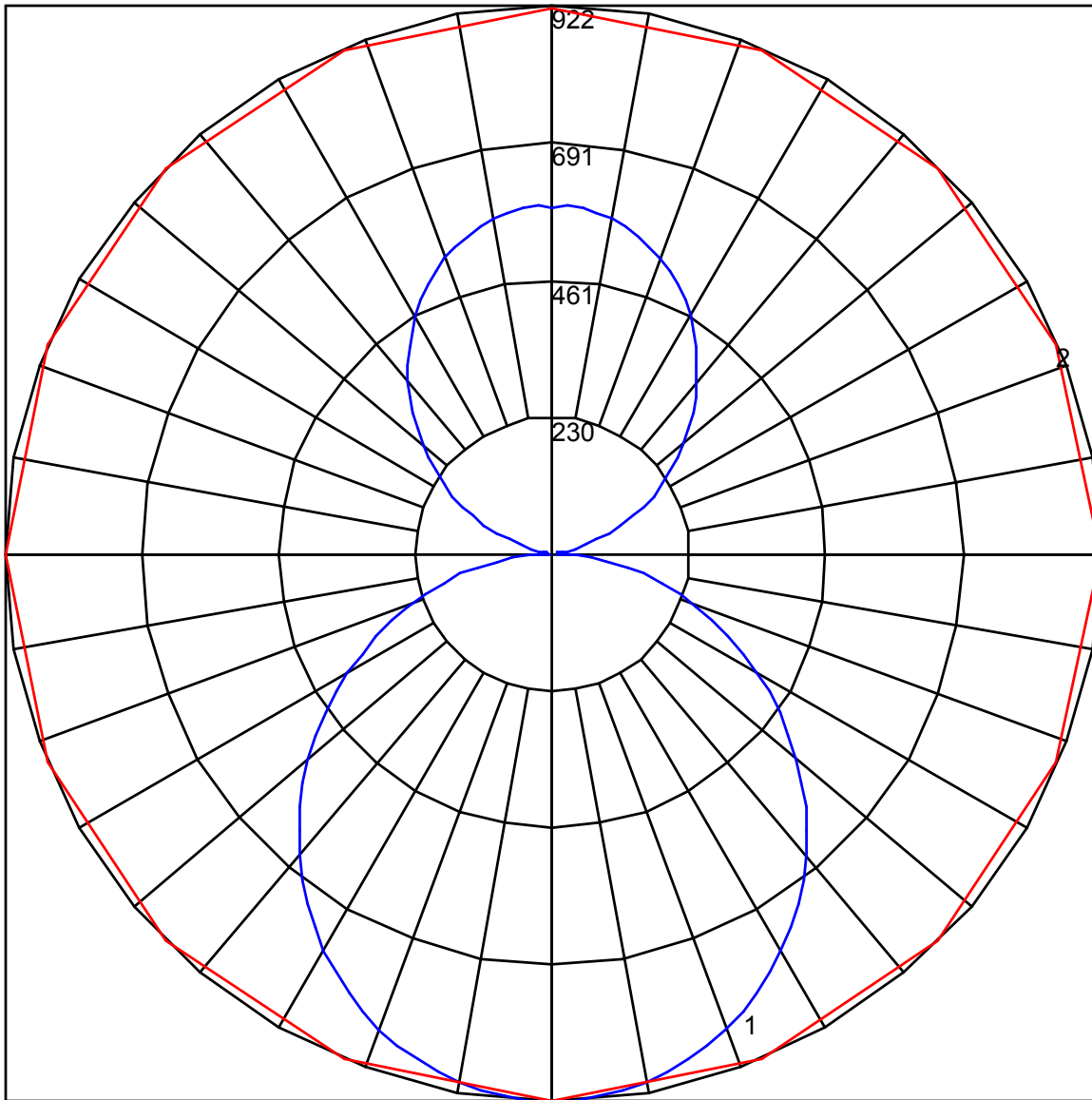
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C-20-LED35-HO-D9.IES**

**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 = 921.908 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.)