



IES INDOOR REPORT

PHOTOMETRIC FILENAME : C-20-LED35-SO-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	3245
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	47
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

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	733.235	733.235	733.235	733.235	733.235	733.235	733.235	733.235	733.235	733.235
2.5	733.981	732.428	732.055	731.745	732.283	731.745	732.055	732.428	733.981	732.428
5.0	730.917	729.737	729.323	728.909	729.613	728.909	729.323	729.737	730.917	729.737
7.5	726.322	725.162	725.017	724.624	725.162	724.624	725.017	725.162	726.322	725.162
10.0	719.946	718.518	718.435	718.124	718.807	718.124	718.435	718.518	719.946	718.518
12.5	711.790	710.548	710.258	709.927	710.527	709.927	710.258	710.548	711.790	710.548
15.0	702.310	701.047	700.674	700.509	701.130	700.509	700.674	701.047	702.310	701.047
17.5	691.132	690.076	689.910	689.641	690.055	689.641	689.910	690.076	691.132	690.076
20.0	678.298	677.470	677.573	677.366	677.573	677.366	677.573	677.470	678.298	677.470
22.5	664.718	663.663	663.828	663.476	663.932	663.476	663.828	663.663	664.718	663.663
25.0	648.800	648.572	648.697	648.076	648.676	648.076	648.697	648.572	648.800	648.572
27.5	631.619	632.054	632.116	631.329	632.033	631.329	632.116	632.054	631.619	632.054
30.0	613.610	614.003	614.355	613.444	613.796	613.444	614.355	614.003	613.610	614.003
32.5	594.545	594.752	595.249	594.359	594.607	594.359	595.249	594.752	594.545	594.752
35.0	573.866	574.363	574.860	573.928	574.363	573.928	574.860	574.363	573.866	574.363
37.5	551.324	552.773	553.270	552.442	552.711	552.442	553.270	552.773	551.324	552.773
40.0	527.953	530.044	530.500	529.754	529.920	529.754	530.500	530.044	527.953	530.044
42.5	504.211	506.011	506.612	506.115	506.384	506.115	506.612	506.011	504.211	506.011
45.0	479.681	481.234	481.875	481.399	481.772	481.399	481.875	481.234	479.681	481.234
47.5	453.992	455.545	456.207	455.855	456.352	455.855	456.207	455.545	453.992	455.545
50.0	427.289	429.132	429.815	429.525	430.146	429.525	429.815	429.132	427.289	429.132
52.5	400.255	402.201	402.946	402.925	403.567	402.925	402.946	402.201	400.255	402.201
55.0	373.159	374.753	375.581	375.995	376.347	375.995	375.581	374.753	373.159	374.753
57.5	345.607	346.746	347.698	348.236	348.422	348.236	347.698	346.746	345.607	346.746
60.0	317.352	318.428	319.546	320.043	320.188	320.043	319.546	318.428	317.352	318.428
62.5	288.827	289.986	291.373	291.559	292.263	291.559	291.373	289.986	288.827	289.986
65.0	260.716	261.441	262.497	263.263	263.594	263.263	262.497	261.441	260.716	261.441
67.5	233.103	232.896	233.806	234.945	236.104	234.945	233.806	232.896	233.103	232.896
70.0	206.400	204.640	205.344	206.420	206.338	206.420	205.344	204.640	206.400	204.640
72.5	177.979	176.716	177.213	178.103	178.206	178.103	177.213	176.716	177.979	176.716
75.0	151.565	149.454	149.806	150.530	150.634	150.530	149.806	149.454	151.565	149.454
77.5	125.918	123.331	123.082	123.848	123.682	123.848	123.082	123.331	125.918	123.331
80.0	100.871	97.994	97.393	98.056	97.559	98.056	97.393	97.994	100.871	97.994
82.5	76.486	73.464	72.553	73.050	72.346	73.050	72.553	73.464	76.486	73.464
85.0	52.599	49.659	48.645	48.728	48.169	48.728	48.645	49.659	52.599	49.659
87.5	29.311	26.413	25.378	25.150	24.571	25.150	25.378	26.413	29.311	26.413
90.0	5.278	5.465	5.423	4.802	4.202	4.802	5.423	5.465	5.278	5.465
92.5	4.616	4.947	5.237	5.879	8.011	5.879	5.237	4.947	4.616	4.947
95.0	7.348	7.825	8.839	12.958	15.608	12.958	8.839	7.825	7.348	7.825
97.5	12.234	13.062	16.125	25.047	27.966	25.047	16.125	13.062	12.234	13.062
100.0	20.265	21.901	27.552	39.061	41.007	39.061	27.552	21.901	20.265	21.901
102.5	31.381	34.114	42.725	53.178	53.841	53.178	42.725	34.114	31.381	34.114
105.0	45.064	49.162	59.740	67.482	67.544	67.482	59.740	49.162	45.064	49.162
107.5	61.189	66.364	76.880	82.158	81.993	82.158	76.880	66.364	61.189	66.364
110.0	79.985	84.932	93.564	97.228	97.042	97.228	93.564	84.932	79.985	84.932
112.5	99.733	103.438	110.041	112.629	112.649	112.629	110.041	103.438	99.733	103.438
115.0	119.191	121.447	126.560	128.443	128.857	128.443	126.560	121.447	119.191	121.447
117.5	137.903	139.125	143.182	144.900	145.397	144.900	143.182	139.125	137.903	139.125
120.0	155.974	156.782	160.052	161.750	162.019	161.750	160.052	156.782	155.974	156.782
122.5	173.880	174.418	177.295	178.724	178.889	178.724	177.295	174.418	173.880	174.418
125.0	191.972	192.137	194.766	196.050	196.236	196.050	194.766	192.137	191.972	192.137
127.5	210.498	210.064	212.548	213.707	213.893	213.707	212.548	210.064	210.498	210.064
130.0	229.066	228.466	230.701	231.592	231.799	231.592	230.701	228.466	229.066	228.466
132.5	247.220	246.930	249.042	249.580	249.870	249.580	249.042	246.930	247.220	246.930

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CANDELA TABULATION - (Cont.)

135.0	265.126	264.939	267.320	267.589	267.775	267.589	267.320	264.939	265.126	264.939
137.5	283.342	282.721	285.287	285.412	285.846	285.412	285.287	282.721	283.342	282.721
140.0	301.537	300.419	302.986	303.007	303.710	303.007	302.986	300.419	301.537	300.419
142.5	319.194	317.931	320.539	320.353	320.974	320.353	320.539	317.931	319.194	317.931
145.0	336.416	334.947	337.431	337.120	337.555	337.120	337.431	334.947	336.416	334.947
147.5	352.976	351.196	353.639	353.225	353.597	353.225	353.639	351.196	352.976	351.196
150.0	368.667	366.742	368.853	368.543	368.977	368.543	368.853	366.742	368.667	366.742
152.5	383.385	381.480	383.323	383.033	383.240	383.033	383.323	381.480	383.385	381.480
155.0	397.192	395.225	397.026	396.508	396.633	396.508	397.026	395.225	397.192	395.225
157.5	410.295	407.749	409.674	408.991	409.073	408.991	409.674	407.749	410.295	407.749
160.0	422.197	419.154	421.390	420.438	420.293	420.438	421.390	419.154	422.197	419.154
162.5	432.506	429.401	431.491	430.498	429.856	430.498	431.491	429.401	432.506	429.401
165.0	441.614	438.488	440.289	439.192	438.695	439.192	440.289	438.488	441.614	438.488
167.5	449.397	446.271	448.093	446.996	446.478	446.996	448.093	446.271	449.397	446.271
170.0	456.124	452.709	454.572	453.516	452.668	453.516	454.572	452.709	456.124	452.709
172.5	461.651	457.905	459.871	458.546	457.532	458.546	459.871	457.905	461.651	457.905
175.0	465.605	461.900	463.721	461.900	461.092	461.900	463.721	461.900	465.605	461.900
177.5	467.716	464.032	465.709	464.094	463.100	464.094	465.709	464.032	467.716	464.032
180.0	465.522	465.522	465.522	465.522	465.522	465.522	465.522	465.522	465.522	465.522

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	733.235	733.235	733.235	733.235	733.235	733.235	733.235
2.5	732.055	731.745	732.283	731.745	732.055	732.428	733.981
5.0	729.323	728.909	729.613	728.909	729.323	729.737	730.917
7.5	725.017	724.624	725.162	724.624	725.017	725.162	726.322
10.0	718.435	718.124	718.807	718.124	718.435	718.518	719.946
12.5	710.258	709.927	710.527	709.927	710.258	710.548	711.790
15.0	700.674	700.509	701.130	700.509	700.674	701.047	702.310
17.5	689.910	689.641	690.055	689.641	689.910	690.076	691.132
20.0	677.573	677.366	677.573	677.366	677.573	677.470	678.298
22.5	663.828	663.476	663.932	663.476	663.828	663.663	664.718
25.0	648.697	648.076	648.676	648.076	648.697	648.572	648.800
27.5	632.116	631.329	632.033	631.329	632.116	632.054	631.619
30.0	614.355	613.444	613.796	613.444	614.355	614.003	613.610
32.5	595.249	594.359	594.607	594.359	595.249	594.752	594.545
35.0	574.860	573.928	574.363	573.928	574.860	574.363	573.866
37.5	553.270	552.442	552.711	552.442	553.270	552.773	551.324
40.0	530.500	529.754	529.920	529.754	530.500	530.044	527.953
42.5	506.612	506.115	506.384	506.115	506.612	506.011	504.211
45.0	481.875	481.399	481.772	481.399	481.875	481.234	479.681
47.5	456.207	455.855	456.352	455.855	456.207	455.545	453.992
50.0	429.815	429.525	430.146	429.525	429.815	429.132	427.289
52.5	402.946	402.925	403.567	402.925	402.946	402.201	400.255
55.0	375.581	375.995	376.347	375.995	375.581	374.753	373.159
57.5	347.698	348.236	348.422	348.236	347.698	346.746	345.607
60.0	319.546	320.043	320.188	320.043	319.546	318.428	317.352
62.5	291.373	291.559	292.263	291.559	291.373	289.986	288.827
65.0	262.497	263.263	263.594	263.263	262.497	261.441	260.716
67.5	233.806	234.945	236.104	234.945	233.806	232.896	233.103
70.0	205.344	206.420	206.338	206.420	205.344	204.640	206.400
72.5	177.213	178.103	178.206	178.103	177.213	176.716	177.979
75.0	149.806	150.530	150.634	150.530	149.806	149.454	151.565
77.5	123.082	123.848	123.682	123.848	123.082	123.331	125.918
80.0	97.393	98.056	97.559	98.056	97.393	97.994	100.871

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CANDELA TABULATION - (Cont.)

82.5	72.553	73.050	72.346	73.050	72.553	73.464	76.486
85.0	48.645	48.728	48.169	48.728	48.645	49.659	52.599
87.5	25.378	25.150	24.571	25.150	25.378	26.413	29.311
90.0	5.423	4.802	4.202	4.802	5.423	5.465	5.278
92.5	5.237	5.879	8.011	5.879	5.237	4.947	4.616
95.0	8.839	12.958	15.608	12.958	8.839	7.825	7.348
97.5	16.125	25.047	27.966	25.047	16.125	13.062	12.234
100.0	27.552	39.061	41.007	39.061	27.552	21.901	20.265
102.5	42.725	53.178	53.841	53.178	42.725	34.114	31.381
105.0	59.740	67.482	67.544	67.482	59.740	49.162	45.064
107.5	76.880	82.158	81.993	82.158	76.880	66.364	61.189
110.0	93.564	97.228	97.042	97.228	93.564	84.932	79.985
112.5	110.041	112.629	112.649	112.629	110.041	103.438	99.733
115.0	126.560	128.443	128.857	128.443	126.560	121.447	119.191
117.5	143.182	144.900	145.397	144.900	143.182	139.125	137.903
120.0	160.052	161.750	162.019	161.750	160.052	156.782	155.974
122.5	177.295	178.724	178.889	178.724	177.295	174.418	173.880
125.0	194.766	196.050	196.236	196.050	194.766	192.137	191.972
127.5	212.548	213.707	213.893	213.707	212.548	210.064	210.498
130.0	230.701	231.592	231.799	231.592	230.701	228.466	229.066
132.5	249.042	249.580	249.870	249.580	249.042	246.930	247.220
135.0	267.320	267.589	267.775	267.589	267.320	264.939	265.126
137.5	285.287	285.412	285.846	285.412	285.287	282.721	283.342
140.0	302.986	303.007	303.710	303.007	302.986	300.419	301.537
142.5	320.539	320.353	320.974	320.353	320.539	317.931	319.194
145.0	337.431	337.120	337.555	337.120	337.431	334.947	336.416
147.5	353.639	353.225	353.597	353.225	353.639	351.196	352.976
150.0	368.853	368.543	368.977	368.543	368.853	366.742	368.667
152.5	383.323	383.033	383.240	383.033	383.323	381.480	383.385
155.0	397.026	396.508	396.633	396.508	397.026	395.225	397.192
157.5	409.674	408.991	409.073	408.991	409.674	407.749	410.295
160.0	421.390	420.438	420.293	420.438	421.390	419.154	422.197
162.5	431.491	430.498	429.856	430.498	431.491	429.401	432.506
165.0	440.289	439.192	438.695	439.192	440.289	438.488	441.614
167.5	448.093	446.996	446.478	446.996	448.093	446.271	449.397
170.0	454.572	453.516	452.668	453.516	454.572	452.709	456.124
172.5	459.871	458.546	457.532	458.546	459.871	457.905	461.651
175.0	463.721	461.900	461.092	461.900	463.721	461.900	465.605
177.5	465.709	464.094	463.100	464.094	465.709	464.032	467.716
180.0	465.522	465.522	465.522	465.522	465.522	465.522	465.522

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	267.11	N.A.	8.20
0-30	565.94	N.A.	17.40
0-40	925.10	N.A.	28.50
0-60	1631.64	N.A.	50.30
0-80	2050.59	N.A.	63.20
0-90	2105.11	N.A.	64.90
10-90	2035.82	N.A.	62.70
20-40	658.00	N.A.	20.30
20-50	1029.17	N.A.	31.70
40-70	966.31	N.A.	29.80
60-80	418.96	N.A.	12.90
70-80	159.18	N.A.	4.90
80-90	54.52	N.A.	1.70
90-110	76.30	N.A.	2.40
90-120	200.10	N.A.	6.20
90-130	373.98	N.A.	11.50
90-150	789.92	N.A.	24.30
90-180	1140.1	N.A.	35.10
110-180	1063.8	N.A.	32.80
0-180	3245.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.30
10-20	197.81
20-30	298.83
30-40	359.17
40-50	371.17
50-60	335.37
60-70	259.77
70-80	159.18
80-90	54.52
90-100	14.12
100-110	62.18
110-120	123.80
120-130	173.88
130-140	205.61
140-150	210.33
150-160	182.43
160-170	123.87
170-180	43.88

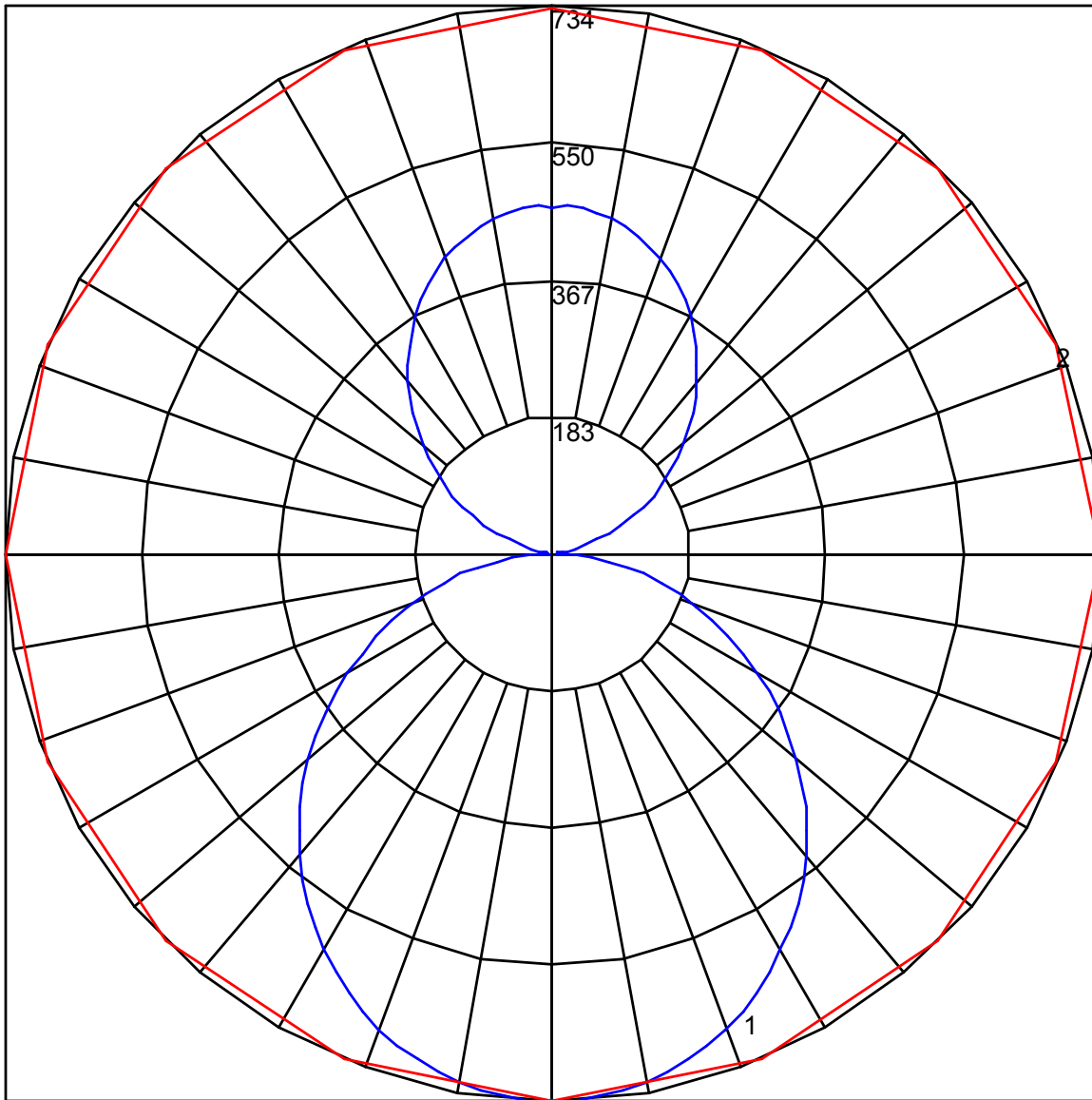
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 733.981 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.)