



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] C-40-LED35-MO-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	3935
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	54
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

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	916.026	916.026	916.026	916.026	916.026	916.026	916.026	916.026	916.026	916.026
2.5	919.251	920.852	914.527	909.752	911.530	909.752	914.527	920.852	919.251	920.852
5.0	916.445	917.791	911.377	907.021	908.660	907.021	911.377	917.791	916.445	917.791
7.5	910.298	912.203	906.412	902.170	904.176	902.170	906.412	912.203	910.298	912.203
10.0	901.992	904.278	898.677	894.309	895.477	894.309	898.677	904.278	901.992	904.278
12.5	893.470	894.156	888.594	883.437	885.393	883.437	888.594	894.156	893.470	894.156
15.0	880.453	881.697	876.859	873.404	873.354	873.404	876.859	881.697	880.453	881.697
17.5	866.356	867.905	864.019	859.257	860.501	859.257	864.019	867.905	866.356	867.905
20.0	850.087	853.021	847.166	844.855	845.007	844.855	847.166	853.021	850.087	853.021
22.5	834.034	834.758	831.418	826.275	828.332	826.275	831.418	834.758	834.034	834.758
25.0	814.946	817.842	812.216	810.450	808.584	810.450	812.216	817.842	814.946	817.842
27.5	795.261	795.414	791.731	788.403	788.314	788.403	791.731	795.414	795.261	795.414
30.0	773.252	773.786	769.201	767.461	766.343	767.461	769.201	773.786	773.252	773.786
32.5	748.500	750.545	746.277	743.712	741.070	743.712	746.277	750.545	748.500	750.545
35.0	723.557	724.433	720.674	719.518	717.410	719.518	720.674	724.433	723.557	724.433
37.5	696.836	697.205	694.169	692.010	692.137	692.010	694.169	697.205	696.836	697.205
40.0	668.287	669.150	665.239	665.264	664.604	665.264	665.239	669.150	668.287	669.150
42.5	637.870	637.489	636.257	634.327	634.289	634.327	636.257	637.489	637.870	637.489
45.0	607.416	607.111	605.003	605.650	603.542	605.650	605.003	607.111	607.416	607.111
47.5	574.383	574.078	573.507	573.227	574.396	573.227	573.507	574.078	574.383	574.078
50.0	541.439	541.871	540.410	540.766	540.639	540.766	540.410	541.871	541.439	541.871
52.5	508.152	507.555	506.057	506.781	506.463	506.781	506.057	507.555	508.152	507.555
55.0	473.532	473.215	470.827	471.576	471.487	471.576	470.827	473.215	473.532	473.215
57.5	438.302	438.099	437.858	436.982	437.502	436.982	437.858	438.099	438.302	438.099
60.0	403.415	402.476	401.218	401.853	402.349	401.853	401.218	402.476	403.415	402.476
62.5	367.601	366.827	367.373	365.138	365.163	365.138	367.373	366.827	367.601	366.827
65.0	333.248	329.260	330.924	327.901	329.400	327.901	330.924	329.260	333.248	329.260
67.5	295.554	293.065	293.522	291.998	293.522	291.998	293.522	293.065	295.554	293.065
70.0	259.512	256.857	257.442	256.730	257.340	256.730	257.442	256.857	259.512	256.857
72.5	223.749	222.174	221.005	220.434	222.834	220.434	221.005	222.174	223.749	222.174
75.0	189.598	186.969	186.677	185.814	187.896	185.814	186.677	186.969	189.598	186.969
77.5	153.911	151.879	151.574	152.692	152.641	152.692	151.574	151.879	153.911	151.879
80.0	118.910	118.593	117.767	117.805	119.024	117.805	117.767	118.593	118.910	118.593
82.5	86.677	84.899	85.585	84.176	84.988	84.176	85.585	84.899	86.677	84.899
85.0	54.851	54.991	54.445	54.242	53.403	54.242	54.445	54.991	54.851	54.991
87.5	24.371	24.828	25.057	23.076	22.619	23.076	25.057	24.828	24.371	24.828
90.0	3.823	4.039	4.686	5.842	6.782	5.842	4.686	4.039	3.823	4.039
92.5	6.210	6.896	6.744	6.896	6.744	6.896	6.744	6.896	6.210	6.896
95.0	13.995	14.783	14.414	14.795	14.173	14.795	14.414	14.783	13.995	14.783
97.5	25.413	24.879	24.867	24.981	24.638	24.981	24.867	24.879	25.413	24.879
100.0	40.996	38.100	37.859	38.024	36.474	38.024	37.859	38.100	40.996	38.100
102.5	57.036	52.857	51.981	51.778	50.825	51.778	51.981	52.857	57.036	52.857
105.0	73.355	69.444	67.272	66.815	66.967	66.815	67.272	69.444	73.355	69.444
107.5	89.713	87.795	83.871	83.337	84.671	83.337	83.871	87.795	89.713	87.795
110.0	107.251	106.578	102.438	101.244	103.581	101.244	102.438	106.578	107.251	106.578
112.5	125.552	125.565	121.907	120.434	123.076	120.434	121.907	125.565	125.552	125.565
115.0	144.234	144.539	141.605	140.017	142.799	140.017	141.605	144.539	144.234	144.539
117.5	163.398	164.008	161.099	159.956	162.573	159.956	161.099	164.008	163.398	164.008
120.0	182.804	183.680	180.899	179.794	182.499	179.794	180.899	183.680	182.804	183.680
122.5	202.806	203.568	200.812	199.885	202.489	199.885	200.812	203.568	202.806	203.568
125.0	222.847	223.647	220.751	220.535	222.339	220.535	220.751	223.647	222.847	223.647
127.5	242.926	243.713	240.589	241.160	242.633	241.160	240.589	243.713	242.926	243.713
130.0	263.042	263.919	260.769	261.493	263.525	261.493	260.769	263.919	263.042	263.919
132.5	283.299	284.112	281.254	282.054	284.162	282.054	281.254	284.112	283.299	284.112

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CANDELA TABULATION - (Cont.)

135.0	303.568	304.457	301.650	302.806	304.546	302.806	301.650	304.457	303.568	304.457
137.5	323.723	324.701	321.920	323.405	324.802	323.405	321.920	324.701	323.723	324.701
140.0	343.802	344.729	341.846	343.560	345.199	343.560	341.846	344.729	343.802	344.729
142.5	363.512	364.388	361.480	363.233	364.884	363.233	361.480	364.388	363.512	364.388
145.0	382.486	383.438	380.517	382.321	383.807	382.321	380.517	383.438	382.486	383.438
147.5	400.494	401.803	398.742	400.444	401.790	400.444	398.742	401.803	400.494	401.803
150.0	417.906	419.303	415.912	417.652	418.884	417.652	415.912	419.303	417.906	419.303
152.5	434.378	435.610	432.359	434.099	435.140	434.099	432.359	435.610	434.378	435.610
155.0	449.847	450.913	447.891	449.250	450.139	449.250	447.891	450.913	449.847	450.913
157.5	463.918	464.871	462.343	463.232	464.020	463.232	462.343	464.871	463.918	464.871
160.0	476.821	477.964	475.259	475.856	476.618	475.856	475.259	477.964	476.821	477.964
162.5	488.302	489.801	486.423	487.159	488.074	487.159	486.423	489.801	488.302	489.801
165.0	498.577	499.923	496.532	497.192	497.980	497.192	496.532	499.923	498.577	499.923
167.5	507.225	508.521	505.257	505.638	506.628	505.638	505.257	508.521	507.225	508.521
170.0	514.452	515.620	512.458	512.864	513.817	512.864	512.458	515.620	514.452	515.620
172.5	520.103	521.233	518.046	518.401	519.366	518.401	518.046	521.233	520.103	521.233
175.0	524.142	525.031	521.945	522.402	523.342	522.402	521.945	525.031	524.142	525.031
177.5	526.656	527.444	524.345	524.777	525.716	524.777	524.345	527.444	526.656	527.444
180.0	526.517	526.517	526.517	526.517	526.517	526.517	526.517	526.517	526.517	526.517

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	916.026	916.026	916.026	916.026	916.026	916.026	916.026
2.5	914.527	909.752	911.530	909.752	914.527	920.852	919.251
5.0	911.377	907.021	908.660	907.021	911.377	917.791	916.445
7.5	906.412	902.170	904.176	902.170	906.412	912.203	910.298
10.0	898.677	894.309	895.477	894.309	898.677	904.278	901.992
12.5	888.594	883.437	885.393	883.437	888.594	894.156	893.470
15.0	876.859	873.404	873.354	873.404	876.859	881.697	880.453
17.5	864.019	859.257	860.501	859.257	864.019	867.905	866.356
20.0	847.166	844.855	845.007	844.855	847.166	853.021	850.087
22.5	831.418	826.275	828.332	826.275	831.418	834.758	834.034
25.0	812.216	810.450	808.584	810.450	812.216	817.842	814.946
27.5	791.731	788.403	788.314	788.403	791.731	795.414	795.261
30.0	769.201	767.461	766.343	767.461	769.201	773.786	773.252
32.5	746.277	743.712	741.070	743.712	746.277	750.545	748.500
35.0	720.674	719.518	717.410	719.518	720.674	724.433	723.557
37.5	694.169	692.010	692.137	692.010	694.169	697.205	696.836
40.0	665.239	665.264	664.604	665.264	665.239	669.150	668.287
42.5	636.257	634.327	634.289	634.327	636.257	637.489	637.870
45.0	605.003	605.650	603.542	605.650	605.003	607.111	607.416
47.5	573.507	573.227	574.396	573.227	573.507	574.078	574.383
50.0	540.410	540.766	540.639	540.766	540.410	541.871	541.439
52.5	506.057	506.781	506.463	506.781	506.057	507.555	508.152
55.0	470.827	471.576	471.487	471.576	470.827	473.215	473.532
57.5	437.858	436.982	437.502	436.982	437.858	438.099	438.302
60.0	401.218	401.853	402.349	401.853	401.218	402.476	403.415
62.5	367.373	365.138	365.163	365.138	367.373	366.827	367.601
65.0	330.924	327.901	329.400	327.901	330.924	329.260	333.248
67.5	293.522	291.998	293.522	291.998	293.522	293.065	295.554
70.0	257.442	256.730	257.340	256.730	257.442	256.857	259.512
72.5	221.005	220.434	222.834	220.434	221.005	222.174	223.749
75.0	186.677	185.814	187.896	185.814	186.677	186.969	189.598
77.5	151.574	152.692	152.641	152.692	151.574	151.879	153.911
80.0	117.767	117.805	119.024	117.805	117.767	118.593	118.910

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CANDELA TABULATION - (Cont.)

82.5	85.585	84.176	84.988	84.176	85.585	84.899	86.677
85.0	54.445	54.242	53.403	54.242	54.445	54.991	54.851
87.5	25.057	23.076	22.619	23.076	25.057	24.828	24.371
90.0	4.686	5.842	6.782	5.842	4.686	4.039	3.823
92.5	6.744	6.896	6.744	6.896	6.744	6.896	6.210
95.0	14.414	14.795	14.173	14.795	14.414	14.783	13.995
97.5	24.867	24.981	24.638	24.981	24.867	24.879	25.413
100.0	37.859	38.024	36.474	38.024	37.859	38.100	40.996
102.5	51.981	51.778	50.825	51.778	51.981	52.857	57.036
105.0	67.272	66.815	66.967	66.815	67.272	69.444	73.355
107.5	83.871	83.337	84.671	83.337	83.871	87.795	89.713
110.0	102.438	101.244	103.581	101.244	102.438	106.578	107.251
112.5	121.907	120.434	123.076	120.434	121.907	125.565	125.552
115.0	141.605	140.017	142.799	140.017	141.605	144.539	144.234
117.5	161.099	159.956	162.573	159.956	161.099	164.008	163.398
120.0	180.899	179.794	182.499	179.794	180.899	183.680	182.804
122.5	200.812	199.885	202.489	199.885	200.812	203.568	202.806
125.0	220.751	220.535	222.339	220.535	220.751	223.647	222.847
127.5	240.589	241.160	242.633	241.160	240.589	243.713	242.926
130.0	260.769	261.493	263.525	261.493	260.769	263.919	263.042
132.5	281.254	282.054	284.162	282.054	281.254	284.112	283.299
135.0	301.650	302.806	304.546	302.806	301.650	304.457	303.568
137.5	321.920	323.405	324.802	323.405	321.920	324.701	323.723
140.0	341.846	343.560	345.199	343.560	341.846	344.729	343.802
142.5	361.480	363.233	364.884	363.233	361.480	364.388	363.512
145.0	380.517	382.321	383.807	382.321	380.517	383.438	382.486
147.5	398.742	400.444	401.790	400.444	398.742	401.803	400.494
150.0	415.912	417.652	418.884	417.652	415.912	419.303	417.906
152.5	432.359	434.099	435.140	434.099	432.359	435.610	434.378
155.0	447.891	449.250	450.139	449.250	447.891	450.913	449.847
157.5	462.343	463.232	464.020	463.232	462.343	464.871	463.918
160.0	475.259	475.856	476.618	475.856	475.259	477.964	476.821
162.5	486.423	487.159	488.074	487.159	486.423	489.801	488.302
165.0	496.532	497.192	497.980	497.192	496.532	499.923	498.577
167.5	505.257	505.638	506.628	505.638	505.257	508.521	507.225
170.0	512.458	512.864	513.817	512.864	512.458	515.620	514.452
172.5	518.046	518.401	519.366	518.401	518.046	521.233	520.103
175.0	521.945	522.402	523.342	522.402	521.945	525.031	524.142
177.5	524.345	524.777	525.716	524.777	524.345	527.444	526.656
180.0	526.517	526.517	526.517	526.517	526.517	526.517	526.517

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	334.20	N.A.	8.50
0-30	708.63	N.A.	18.00
0-40	1159.72	N.A.	29.50
0-60	2049.15	N.A.	52.10
0-80	2573.17	N.A.	65.40
0-90	2634.47	N.A.	66.90
10-90	2547.81	N.A.	64.70
20-40	825.53	N.A.	21.00
20-50	1292.63	N.A.	32.80
40-70	1215.9	N.A.	30.90
60-80	524.02	N.A.	13.30
70-80	197.55	N.A.	5.00
80-90	61.30	N.A.	1.60
90-110	91.62	N.A.	2.30
90-120	232.66	N.A.	5.90
90-130	431.08	N.A.	11.00
90-150	903.89	N.A.	23.00
90-180	1300.71	N.A.	33.10
110-180	1209.08	N.A.	30.70
0-180	3935.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.66
10-20	247.54
20-30	374.43
30-40	451.09
40-50	467.11
50-60	422.32
60-70	326.47
70-80	197.55
80-90	61.30
90-100	18.44
100-110	73.18
110-120	141.04
120-130	198.42
130-140	233.92
140-150	238.90
150-160	206.85
160-170	140.31
170-180	49.65

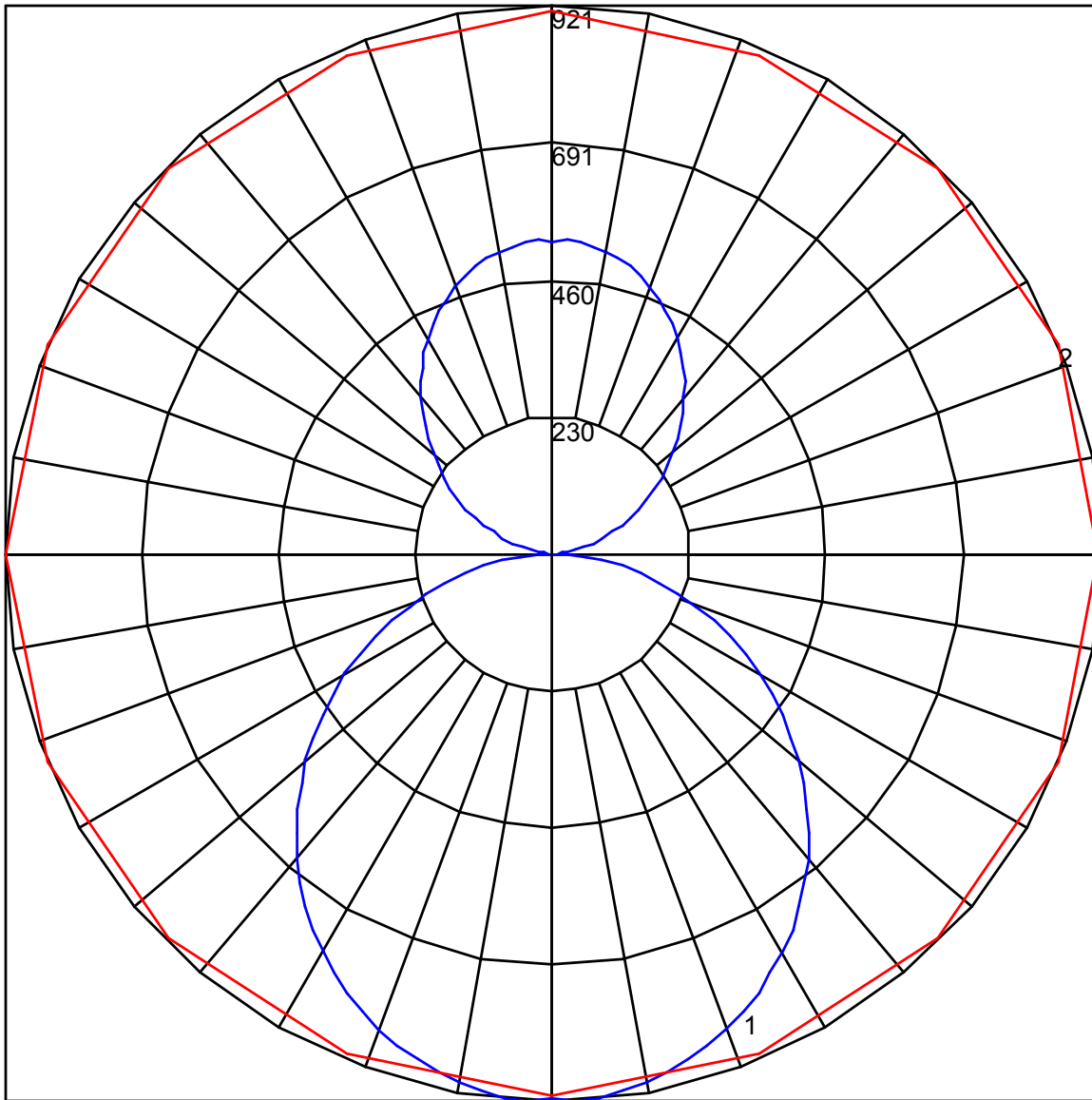
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 920.852 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.)