



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-PRO-LED35-LO-WA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] G104160086
 [TESTLAB] Intertek
 [ISSUE DATE] 11/20/19
 [MANUFAC] Prudential Lighting
 [_TOTALLUMINAIRELUMENS] 4123.9

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.58
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4268	3451	3387
55	4080	3202	3164
65	3744	2910	2917
75	3065	2553	2638
85	1507	2216	2408

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	319.578	319.578	319.578	319.578	319.578	319.578	319.578	319.578	319.578	319.578
2.5	320.754	319.788	319.074	320.796	320.460	319.956	318.024	319.158	319.914	319.158
5.0	318.948	318.864	319.242	322.644	322.938	321.510	318.864	318.738	318.906	318.738
7.5	317.730	318.234	319.956	324.408	325.920	324.030	319.998	318.276	317.604	318.276
10.0	317.184	319.284	320.838	326.466	329.028	326.634	321.342	317.352	314.958	317.352
12.5	311.892	316.008	323.484	328.692	332.094	329.196	322.266	315.588	312.060	315.588
15.0	308.196	313.614	323.820	330.582	334.698	331.422	322.224	313.530	308.112	313.530
17.5	304.920	311.304	322.182	332.136	336.840	333.186	322.014	310.968	303.576	310.968
20.0	299.040	309.750	321.636	333.774	338.268	334.110	321.006	307.650	298.284	307.650
22.5	293.328	304.794	320.544	335.328	338.898	334.194	319.704	303.996	292.488	303.996
25.0	287.742	300.552	319.956	335.244	338.730	333.438	317.562	299.544	286.146	299.544
27.5	281.358	296.226	316.428	333.228	337.932	331.968	315.042	294.714	279.132	294.714
30.0	274.008	290.514	312.690	330.120	336.462	330.162	311.934	289.422	271.614	289.422
32.5	266.196	284.550	308.868	327.432	334.572	328.062	308.364	283.584	263.508	283.584
35.0	257.712	278.166	305.172	324.576	332.136	325.458	304.206	277.116	254.856	277.116
37.5	248.892	271.320	299.754	321.090	329.028	321.804	299.166	270.018	245.784	270.018
40.0	239.568	263.802	294.420	317.016	325.290	317.478	293.664	262.374	236.124	262.374
42.5	229.656	255.864	288.456	312.312	320.838	312.354	287.574	254.184	225.918	254.184
45.0	219.240	247.254	282.198	306.810	315.462	306.642	280.686	245.406	215.292	245.406
47.5	208.656	238.014	274.344	300.342	309.540	300.006	273.420	236.040	204.204	236.040
50.0	197.232	228.060	266.238	293.244	302.694	292.908	265.566	226.212	192.654	226.212
52.5	185.136	217.686	257.628	285.516	295.176	285.222	257.166	215.922	180.684	215.922
55.0	172.914	206.766	248.472	277.242	287.238	276.948	248.094	205.212	168.168	205.212
57.5	160.356	195.300	238.728	268.506	278.796	268.170	238.602	194.082	155.400	194.082
60.0	147.294	183.582	228.564	259.056	269.766	258.888	228.522	182.616	142.338	182.616
62.5	133.854	171.528	217.980	249.018	260.190	249.018	217.812	170.646	128.730	170.646
65.0	120.204	159.180	206.808	238.686	249.900	238.476	206.556	158.214	114.744	158.214
67.5	106.302	146.580	195.300	227.976	239.232	227.556	194.670	145.404	100.632	145.404
70.0	92.064	133.686	183.540	216.720	228.396	216.342	182.532	132.426	86.688	132.426
72.5	77.952	120.582	171.528	205.296	217.140	204.918	170.310	119.280	72.576	119.280
75.0	63.924	107.604	159.264	193.704	205.548	193.242	158.046	106.050	58.464	106.050
77.5	49.896	94.794	147.084	182.112	194.124	181.566	145.908	93.030	44.604	93.030
80.0	36.414	82.362	135.240	170.604	182.952	170.268	134.148	80.640	31.584	80.640
82.5	24.150	70.812	124.320	159.978	172.452	159.726	123.228	69.258	19.740	69.258
85.0	13.524	60.900	114.786	150.864	163.380	150.612	114.030	59.640	9.954	59.640
87.5	5.418	53.508	107.604	143.892	156.702	143.850	107.310	52.836	0.000	52.836
90.0	0.000	49.896	103.950	140.280	153.090	140.490	104.160	49.980	0.000	49.980
92.5	0.000	49.098	102.984	139.188	151.956	139.440	103.278	49.350	0.000	49.350
95.0	0.000	48.426	102.018	138.054	150.780	138.390	102.438	47.754	0.000	47.754
97.5	0.000	47.754	100.968	136.710	149.394	137.004	101.346	46.368	0.000	46.368
100.0	0.000	46.956	99.750	135.114	147.672	135.450	100.044	46.116	0.000	46.116
102.5	0.000	45.486	98.238	133.224	145.698	133.518	97.860	44.646	0.000	44.646
105.0	0.000	42.714	96.474	131.040	143.346	131.334	95.340	42.042	0.000	42.042
107.5	0.000	40.236	94.542	128.604	140.616	128.898	92.904	39.690	0.000	39.690
110.0	0.000	38.010	92.358	125.874	137.760	126.252	91.224	36.288	0.000	36.288
112.5	0.000	35.910	89.292	123.018	134.694	123.354	87.654	32.634	0.000	32.634
115.0	0.000	34.104	85.218	119.826	131.292	120.078	80.010	29.274	0.000	29.274
117.5	0.000	32.466	80.598	115.836	127.428	115.584	71.610	26.376	0.000	26.376
120.0	0.000	30.912	76.272	110.670	122.640	109.872	64.386	23.898	0.000	23.898
122.5	0.000	29.400	72.240	104.664	116.802	103.236	57.918	21.714	0.000	21.714
125.0	0.000	27.888	68.334	98.700	110.082	95.970	52.164	20.202	0.000	20.202
127.5	0.000	26.292	64.470	92.904	103.488	86.940	47.418	18.984	0.000	18.984
130.0	0.000	24.864	60.942	87.318	97.230	77.322	42.924	18.354	0.000	18.354
132.5	0.000	23.310	57.246	82.026	91.140	68.628	38.472	17.976	0.000	17.976

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135.0	0.000	21.714	53.802	76.734	85.134	60.732	34.650	17.304	0.000	17.304
137.5	0.000	20.034	50.022	71.778	78.918	53.382	31.416	16.464	0.000	16.464
140.0	0.000	18.354	46.494	66.402	73.080	46.074	29.988	15.540	0.000	15.540
142.5	0.000	16.800	42.924	61.614	67.326	40.740	28.812	14.700	0.000	14.700
145.0	0.000	15.288	38.934	56.364	62.118	35.826	27.174	13.734	0.000	13.734
147.5	0.000	13.650	35.406	51.492	56.322	31.206	25.704	12.600	0.000	12.600
150.0	0.000	11.970	31.668	46.410	51.030	26.712	23.856	11.340	0.000	11.340
152.5	0.000	10.374	27.552	41.244	45.360	22.848	21.630	10.080	0.000	10.080
155.0	0.000	8.946	23.688	36.582	39.354	20.328	19.278	8.904	0.000	8.904
157.5	0.000	7.686	20.412	31.290	34.104	17.388	17.052	7.896	0.000	7.896
160.0	0.000	6.636	17.220	26.040	28.308	14.490	14.616	6.972	0.000	6.972
162.5	0.000	5.754	13.776	21.420	22.512	12.558	12.096	6.006	0.000	6.006
165.0	0.000	4.956	10.626	16.926	12.642	10.752	9.702	5.208	0.000	5.208
167.5	0.000	4.326	8.274	12.138	7.476	8.526	7.854	4.578	0.000	4.578
170.0	0.000	0.000	6.426	8.526	5.208	6.468	6.300	3.990	0.000	3.990
172.5	0.000	0.000	4.872	5.964	0.000	4.830	4.830	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	319.578	319.578	319.578	319.578	319.578	319.578	319.578
2.5	318.024	319.956	320.460	320.796	319.074	319.788	320.754
5.0	318.864	321.510	322.938	322.644	319.242	318.864	318.948
7.5	319.998	324.030	325.920	324.408	319.956	318.234	317.730
10.0	321.342	326.634	329.028	326.466	320.838	319.284	317.184
12.5	322.266	329.196	332.094	328.692	323.484	316.008	311.892
15.0	322.224	331.422	334.698	330.582	323.820	313.614	308.196
17.5	322.014	333.186	336.840	332.136	322.182	311.304	304.920
20.0	321.006	334.110	338.268	333.774	321.636	309.750	299.040
22.5	319.704	334.194	338.898	335.328	320.544	304.794	293.328
25.0	317.562	333.438	338.730	335.244	319.956	300.552	287.742
27.5	315.042	331.968	337.932	333.228	316.428	296.226	281.358
30.0	311.934	330.162	336.462	330.120	312.690	290.514	274.008
32.5	308.364	328.062	334.572	327.432	308.868	284.550	266.196
35.0	304.206	325.458	332.136	324.576	305.172	278.166	257.712
37.5	299.166	321.804	329.028	321.090	299.754	271.320	248.892
40.0	293.664	317.478	325.290	317.016	294.420	263.802	239.568
42.5	287.574	312.354	320.838	312.312	288.456	255.864	229.656
45.0	280.686	306.642	315.462	306.810	282.198	247.254	219.240
47.5	273.420	300.006	309.540	300.342	274.344	238.014	208.656
50.0	265.566	292.908	302.694	293.244	266.238	228.060	197.232
52.5	257.166	285.222	295.176	285.516	257.628	217.686	185.136
55.0	248.094	276.948	287.238	277.242	248.472	206.766	172.914
57.5	238.602	268.170	278.796	268.506	238.728	195.300	160.356
60.0	228.522	258.888	269.766	259.056	228.564	183.582	147.294
62.5	217.812	249.018	260.190	249.018	217.980	171.528	133.854
65.0	206.556	238.476	249.900	238.686	206.808	159.180	120.204
67.5	194.670	227.556	239.232	227.976	195.300	146.580	106.302
70.0	182.532	216.342	228.396	216.720	183.540	133.686	92.064
72.5	170.310	204.918	217.140	205.296	171.528	120.582	77.952
75.0	158.046	193.242	205.548	193.704	159.264	107.604	63.924
77.5	145.908	181.566	194.124	182.112	147.084	94.794	49.896
80.0	134.148	170.268	182.952	170.604	135.240	82.362	36.414

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82.5	123.228	159.726	172.452	159.978	124.320	70.812	24.150
85.0	114.030	150.612	163.380	150.864	114.786	60.900	13.524
87.5	107.310	143.850	156.702	143.892	107.604	53.508	5.418
90.0	104.160	140.490	153.090	140.280	103.950	49.896	0.000
92.5	103.278	139.440	151.956	139.188	102.984	49.098	0.000
95.0	102.438	138.390	150.780	138.054	102.018	48.426	0.000
97.5	101.346	137.004	149.394	136.710	100.968	47.754	0.000
100.0	100.044	135.450	147.672	135.114	99.750	46.956	0.000
102.5	97.860	133.518	145.698	133.224	98.238	45.486	0.000
105.0	95.340	131.334	143.346	131.040	96.474	42.714	0.000
107.5	92.904	128.898	140.616	128.604	94.542	40.236	0.000
110.0	91.224	126.252	137.760	125.874	92.358	38.010	0.000
112.5	87.654	123.354	134.694	123.018	89.292	35.910	0.000
115.0	80.010	120.078	131.292	119.826	85.218	34.104	0.000
117.5	71.610	115.584	127.428	115.836	80.598	32.466	0.000
120.0	64.386	109.872	122.640	110.670	76.272	30.912	0.000
122.5	57.918	103.236	116.802	104.664	72.240	29.400	0.000
125.0	52.164	95.970	110.082	98.700	68.334	27.888	0.000
127.5	47.418	86.940	103.488	92.904	64.470	26.292	0.000
130.0	42.924	77.322	97.230	87.318	60.942	24.864	0.000
132.5	38.472	68.628	91.140	82.026	57.246	23.310	0.000
135.0	34.650	60.732	85.134	76.734	53.802	21.714	0.000
137.5	31.416	53.382	78.918	71.778	50.022	20.034	0.000
140.0	29.988	46.074	73.080	66.402	46.494	18.354	0.000
142.5	28.812	40.740	67.326	61.614	42.924	16.800	0.000
145.0	27.174	35.826	62.118	56.364	38.934	15.288	0.000
147.5	25.704	31.206	56.322	51.492	35.406	13.650	0.000
150.0	23.856	26.712	51.030	46.410	31.668	11.970	0.000
152.5	21.630	22.848	45.360	41.244	27.552	10.374	0.000
155.0	19.278	20.328	39.354	36.582	23.688	8.946	0.000
157.5	17.052	17.388	34.104	31.290	20.412	7.686	0.000
160.0	14.616	14.490	28.308	26.040	17.220	6.636	0.000
162.5	12.096	12.558	22.512	21.420	13.776	5.754	0.000
165.0	9.702	10.752	12.642	16.926	10.626	4.956	0.000
167.5	7.854	8.526	7.476	12.138	8.274	4.326	0.000
170.0	6.300	6.468	5.208	8.526	6.426	0.000	0.000
172.5	4.830	4.830	0.000	5.964	4.872	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	121.86	N.A.	7.00
0-30	267.91	N.A.	15.50
0-40	456.04	N.A.	26.30
0-60	883.17	N.A.	51.00
0-80	1234.62	N.A.	71.30
0-90	1349.21	N.A.	77.90
10-90	1318.58	N.A.	76.10
20-40	334.18	N.A.	19.30
20-50	546.59	N.A.	31.60
40-70	622.02	N.A.	35.90
60-80	351.45	N.A.	20.30
70-80	156.56	N.A.	9.00
80-90	114.59	N.A.	6.60
90-110	189.34	N.A.	10.90
90-120	263.55	N.A.	15.20
90-130	316.78	N.A.	18.30
90-150	370.63	N.A.	21.40
90-180	382.83	N.A.	22.10
110-180	193.49	N.A.	11.20
0-180	1732.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.63
10-20	91.23
20-30	146.05
30-40	188.13
40-50	212.41
50-60	214.72
60-70	194.89
70-80	156.56
80-90	114.59
90-100	99.20
100-110	90.15
110-120	74.21
120-130	53.23
130-140	34.11
140-150	19.74
150-160	9.27
160-170	2.74
170-180	0.19

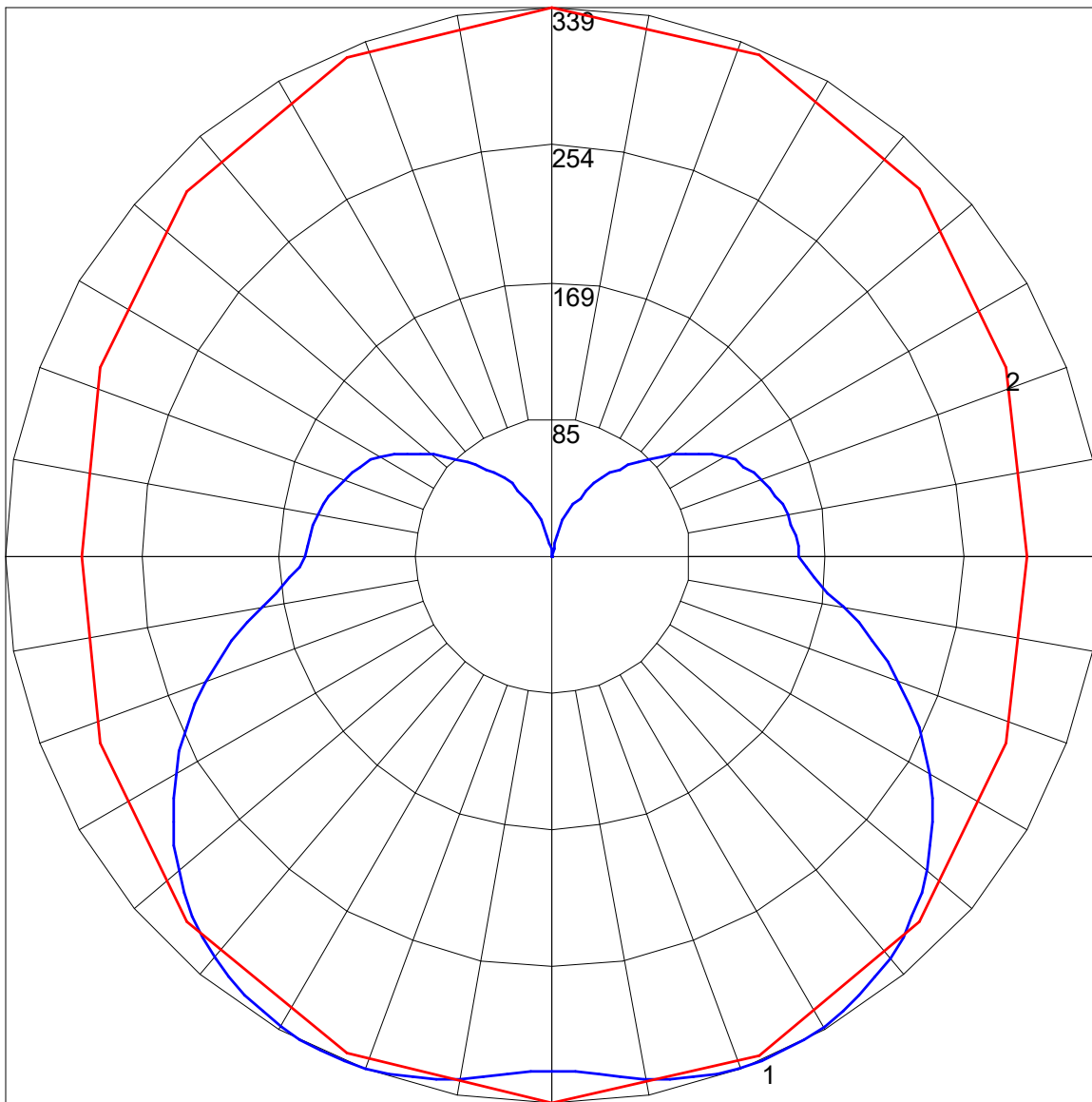
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	90	85	96	91	86	82	82	78	75	75	72	69	67	65	63	59
2	91	81	74	67	86	77	70	64	70	65	60	64	59	55	57	54	51	47
3	82	70	61	54	77	67	59	52	61	54	49	55	50	45	50	45	42	38
4	75	62	52	45	70	59	50	44	53	46	41	49	43	38	44	39	35	32
5	68	55	45	38	64	52	43	37	48	40	35	43	37	32	39	34	30	27
6	63	49	39	33	59	47	38	32	43	35	30	39	33	28	35	30	26	23
7	58	44	35	29	55	42	34	28	38	31	26	35	29	24	32	27	23	20
8	54	40	31	25	51	38	30	24	35	28	23	32	26	22	29	24	20	18
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	27	22	18	16
10	47	33	25	20	44	32	25	19	30	23	18	27	21	17	25	20	16	14

POLAR GRAPH



Maximum Candela = 338.898 Located At Horizontal Angle = 90, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)