



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-PRO-LED35-MO-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	2969
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	26
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	7316	5917	5806
55	6994	5489	5424
65	6418	4989	5001
75	5254	4377	4521
85	2584	3799	4129

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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	547.848	547.848	547.848	547.848	547.848	547.848	547.848	547.848	547.848	547.848
2.5	549.864	548.208	546.984	549.936	549.360	548.496	545.184	547.128	548.424	547.128
5.0	546.768	546.624	547.272	553.104	553.608	551.160	546.624	546.408	546.696	546.408
7.5	544.680	545.544	548.496	556.128	558.720	555.480	548.568	545.616	544.464	545.616
10.0	543.744	547.344	550.008	559.656	564.048	559.944	550.872	544.032	539.928	544.032
12.5	534.672	541.728	554.544	563.472	569.304	564.336	552.456	541.008	534.960	541.008
15.0	528.336	537.624	555.120	566.712	573.768	568.152	552.384	537.480	528.192	537.480
17.5	522.720	533.664	552.312	569.376	577.440	571.176	552.024	533.088	520.416	533.088
20.0	512.640	531.000	551.376	572.184	579.888	572.760	550.296	527.400	511.344	527.400
22.5	502.848	522.504	549.504	574.848	580.968	572.904	548.064	521.136	501.408	521.136
25.0	493.272	515.232	548.496	574.704	580.680	571.608	544.392	513.504	490.536	513.504
27.5	482.328	507.816	542.448	571.248	579.312	569.088	540.072	505.224	478.512	505.224
30.0	469.728	498.024	536.040	565.920	576.792	565.992	534.744	496.152	465.624	496.152
32.5	456.336	487.800	529.488	561.312	573.552	562.392	528.624	486.144	451.728	486.144
35.0	441.792	476.856	523.152	556.416	569.376	557.928	521.496	475.056	436.896	475.056
37.5	426.672	465.120	513.864	550.440	564.048	551.664	512.856	462.888	421.344	462.888
40.0	410.688	452.232	504.720	543.456	557.640	544.248	503.424	449.784	404.784	449.784
42.5	393.696	438.624	494.496	535.392	550.008	535.464	492.984	435.744	387.288	435.744
45.0	375.840	423.864	483.768	525.960	540.792	525.672	481.176	420.696	369.072	420.696
47.5	357.696	408.024	470.304	514.872	530.640	514.296	468.720	404.640	350.064	404.640
50.0	338.112	390.960	456.408	502.704	518.904	502.128	455.256	387.792	330.264	387.792
52.5	317.376	373.176	441.648	489.456	506.016	488.952	440.856	370.152	309.744	370.152
55.0	296.424	354.456	425.952	475.272	492.408	474.768	425.304	351.792	288.288	351.792
57.5	274.896	334.800	409.248	460.296	477.936	459.720	409.032	332.712	266.400	332.712
60.0	252.504	314.712	391.824	444.096	462.456	443.808	391.752	313.056	244.008	313.056
62.5	229.464	294.048	373.680	426.888	446.040	426.888	373.392	292.536	220.680	292.536
65.0	206.064	272.880	354.528	409.176	428.400	408.816	354.096	271.224	196.704	271.224
67.5	182.232	251.280	334.800	390.816	410.112	390.096	333.720	249.264	172.512	249.264
70.0	157.824	229.176	314.640	371.520	391.536	370.872	312.912	227.016	148.608	227.016
72.5	133.632	206.712	294.048	351.936	372.240	351.288	291.960	204.480	124.416	204.480
75.0	109.584	184.464	273.024	332.064	352.368	331.272	270.936	181.800	100.224	181.800
77.5	85.536	162.504	252.144	312.192	332.784	311.256	250.128	159.480	76.464	159.480
80.0	62.424	141.192	231.840	292.464	313.632	291.888	229.968	138.240	54.144	138.240
82.5	41.400	121.392	213.120	274.248	295.632	273.816	211.248	118.728	33.840	118.728
85.0	23.184	104.400	196.776	258.624	280.080	258.192	195.480	102.240	17.064	102.240
87.5	9.288	91.728	184.464	246.672	268.632	246.600	183.960	90.576	0.000	90.576
90.0	0.000	85.536	178.200	240.480	262.440	240.840	178.560	85.680	0.000	85.680
92.5	0.000	84.168	176.544	238.608	260.496	239.040	177.048	84.600	0.000	84.600
95.0	0.000	83.016	174.888	236.664	258.480	237.240	175.608	81.864	0.000	81.864
97.5	0.000	81.864	173.088	234.360	256.104	234.864	173.736	79.488	0.000	79.488
100.0	0.000	80.496	171.000	231.624	253.152	232.200	171.504	79.056	0.000	79.056
102.5	0.000	77.976	168.408	228.384	249.768	228.888	167.760	76.536	0.000	76.536
105.0	0.000	73.224	165.384	224.640	245.736	225.144	163.440	72.072	0.000	72.072
107.5	0.000	68.976	162.072	220.464	241.056	220.968	159.264	68.040	0.000	68.040
110.0	0.000	65.160	158.328	215.784	236.160	216.432	156.384	62.208	0.000	62.208
112.5	0.000	61.560	153.072	210.888	230.904	211.464	150.264	55.944	0.000	55.944
115.0	0.000	58.464	146.088	205.416	225.072	205.848	137.160	50.184	0.000	50.184
117.5	0.000	55.656	138.168	198.576	218.448	198.144	122.760	45.216	0.000	45.216
120.0	0.000	52.992	130.752	189.720	210.240	188.352	110.376	40.968	0.000	40.968
122.5	0.000	50.400	123.840	179.424	200.232	176.976	99.288	37.224	0.000	37.224
125.0	0.000	47.808	117.144	169.200	188.712	164.520	89.424	34.632	0.000	34.632
127.5	0.000	45.072	110.520	159.264	177.408	149.040	81.288	32.544	0.000	32.544
130.0	0.000	42.624	104.472	149.688	166.680	132.552	73.584	31.464	0.000	31.464
132.5	0.000	39.960	98.136	140.616	156.240	117.648	65.952	30.816	0.000	30.816

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135.0	0.000	37.224	92.232	131.544	145.944	104.112	59.400	29.664	0.000	29.664
137.5	0.000	34.344	85.752	123.048	135.288	91.512	53.856	28.224	0.000	28.224
140.0	0.000	31.464	79.704	113.832	125.280	78.984	51.408	26.640	0.000	26.640
142.5	0.000	28.800	73.584	105.624	115.416	69.840	49.392	25.200	0.000	25.200
145.0	0.000	26.208	66.744	96.624	106.488	61.416	46.584	23.544	0.000	23.544
147.5	0.000	23.400	60.696	88.272	96.552	53.496	44.064	21.600	0.000	21.600
150.0	0.000	20.520	54.288	79.560	87.480	45.792	40.896	19.440	0.000	19.440
152.5	0.000	17.784	47.232	70.704	77.760	39.168	37.080	17.280	0.000	17.280
155.0	0.000	15.336	40.608	62.712	67.464	34.848	33.048	15.264	0.000	15.264
157.5	0.000	13.176	34.992	53.640	58.464	29.808	29.232	13.536	0.000	13.536
160.0	0.000	11.376	29.520	44.640	48.528	24.840	25.056	11.952	0.000	11.952
162.5	0.000	9.864	23.616	36.720	38.592	21.528	20.736	10.296	0.000	10.296
165.0	0.000	8.496	18.216	29.016	21.672	18.432	16.632	8.928	0.000	8.928
167.5	0.000	7.416	14.184	20.808	12.816	14.616	13.464	7.848	0.000	7.848
170.0	0.000	0.000	11.016	14.616	8.928	11.088	10.800	6.840	0.000	6.840
172.5	0.000	0.000	8.352	10.224	0.000	8.280	8.280	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	547.848	547.848	547.848	547.848	547.848	547.848	547.848
2.5	545.184	548.496	549.360	549.936	546.984	548.208	549.864
5.0	546.624	551.160	553.608	553.104	547.272	546.624	546.768
7.5	548.568	555.480	558.720	556.128	548.496	545.544	544.680
10.0	550.872	559.944	564.048	559.656	550.008	547.344	543.744
12.5	552.456	564.336	569.304	563.472	554.544	541.728	534.672
15.0	552.384	568.152	573.768	566.712	555.120	537.624	528.336
17.5	552.024	571.176	577.440	569.376	552.312	533.664	522.720
20.0	550.296	572.760	579.888	572.184	551.376	531.000	512.640
22.5	548.064	572.904	580.968	574.848	549.504	522.504	502.848
25.0	544.392	571.608	580.680	574.704	548.496	515.232	493.272
27.5	540.072	569.088	579.312	571.248	542.448	507.816	482.328
30.0	534.744	565.992	576.792	565.920	536.040	498.024	469.728
32.5	528.624	562.392	573.552	561.312	529.488	487.800	456.336
35.0	521.496	557.928	569.376	556.416	523.152	476.856	441.792
37.5	512.856	551.664	564.048	550.440	513.864	465.120	426.672
40.0	503.424	544.248	557.640	543.456	504.720	452.232	410.688
42.5	492.984	535.464	550.008	535.392	494.496	438.624	393.696
45.0	481.176	525.672	540.792	525.960	483.768	423.864	375.840
47.5	468.720	514.296	530.640	514.872	470.304	408.024	357.696
50.0	455.256	502.128	518.904	502.704	456.408	390.960	338.112
52.5	440.856	488.952	506.016	489.456	441.648	373.176	317.376
55.0	425.304	474.768	492.408	475.272	425.952	354.456	296.424
57.5	409.032	459.720	477.936	460.296	409.248	334.800	274.896
60.0	391.752	443.808	462.456	444.096	391.824	314.712	252.504
62.5	373.392	426.888	446.040	426.888	373.680	294.048	229.464
65.0	354.096	408.816	428.400	409.176	354.528	272.880	206.064
67.5	333.720	390.096	410.112	390.816	334.800	251.280	182.232
70.0	312.912	370.872	391.536	371.520	314.640	229.176	157.824
72.5	291.960	351.288	372.240	351.936	294.048	206.712	133.632
75.0	270.936	331.272	352.368	332.064	273.024	184.464	109.584
77.5	250.128	311.256	332.784	312.192	252.144	162.504	85.536
80.0	229.968	291.888	313.632	292.464	231.840	141.192	62.424

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82.5	211.248	273.816	295.632	274.248	213.120	121.392	41.400
85.0	195.480	258.192	280.080	258.624	196.776	104.400	23.184
87.5	183.960	246.600	268.632	246.672	184.464	91.728	9.288
90.0	178.560	240.840	262.440	240.480	178.200	85.536	0.000
92.5	177.048	239.040	260.496	238.608	176.544	84.168	0.000
95.0	175.608	237.240	258.480	236.664	174.888	83.016	0.000
97.5	173.736	234.864	256.104	234.360	173.088	81.864	0.000
100.0	171.504	232.200	253.152	231.624	171.000	80.496	0.000
102.5	167.760	228.888	249.768	228.384	168.408	77.976	0.000
105.0	163.440	225.144	245.736	224.640	165.384	73.224	0.000
107.5	159.264	220.968	241.056	220.464	162.072	68.976	0.000
110.0	156.384	216.432	236.160	215.784	158.328	65.160	0.000
112.5	150.264	211.464	230.904	210.888	153.072	61.560	0.000
115.0	137.160	205.848	225.072	205.416	146.088	58.464	0.000
117.5	122.760	198.144	218.448	198.576	138.168	55.656	0.000
120.0	110.376	188.352	210.240	189.720	130.752	52.992	0.000
122.5	99.288	176.976	200.232	179.424	123.840	50.400	0.000
125.0	89.424	164.520	188.712	169.200	117.144	47.808	0.000
127.5	81.288	149.040	177.408	159.264	110.520	45.072	0.000
130.0	73.584	132.552	166.680	149.688	104.472	42.624	0.000
132.5	65.952	117.648	156.240	140.616	98.136	39.960	0.000
135.0	59.400	104.112	145.944	131.544	92.232	37.224	0.000
137.5	53.856	91.512	135.288	123.048	85.752	34.344	0.000
140.0	51.408	78.984	125.280	113.832	79.704	31.464	0.000
142.5	49.392	69.840	115.416	105.624	73.584	28.800	0.000
145.0	46.584	61.416	106.488	96.624	66.744	26.208	0.000
147.5	44.064	53.496	96.552	88.272	60.696	23.400	0.000
150.0	40.896	45.792	87.480	79.560	54.288	20.520	0.000
152.5	37.080	39.168	77.760	70.704	47.232	17.784	0.000
155.0	33.048	34.848	67.464	62.712	40.608	15.336	0.000
157.5	29.232	29.808	58.464	53.640	34.992	13.176	0.000
160.0	25.056	24.840	48.528	44.640	29.520	11.376	0.000
162.5	20.736	21.528	38.592	36.720	23.616	9.864	0.000
165.0	16.632	18.432	21.672	29.016	18.216	8.496	0.000
167.5	13.464	14.616	12.816	20.808	14.184	7.416	0.000
170.0	10.800	11.088	8.928	14.616	11.016	0.000	0.000
172.5	8.280	8.280	0.000	10.224	8.352	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	208.90	N.A.	7.00
0-30	459.27	N.A.	15.50
0-40	781.78	N.A.	26.30
0-60	1514.01	N.A.	51.00
0-80	2116.5	N.A.	71.30
0-90	2312.94	N.A.	77.90
10-90	2260.43	N.A.	76.10
20-40	572.88	N.A.	19.30
20-50	937.02	N.A.	31.60
40-70	1066.33	N.A.	35.90
60-80	602.49	N.A.	20.30
70-80	268.39	N.A.	9.00
80-90	196.44	N.A.	6.60
90-110	324.59	N.A.	10.90
90-120	451.80	N.A.	15.20
90-130	543.05	N.A.	18.30
90-150	635.37	N.A.	21.40
90-180	656.29	N.A.	22.10
110-180	331.70	N.A.	11.20
0-180	2969.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.51
10-20	156.39
20-30	250.37
30-40	322.51
40-50	364.14
50-60	368.09
60-70	334.10
70-80	268.39
80-90	196.44
90-100	170.05
100-110	154.54
110-120	127.21
120-130	91.25
130-140	58.48
140-150	33.84
150-160	15.89
160-170	4.70
170-180	0.32

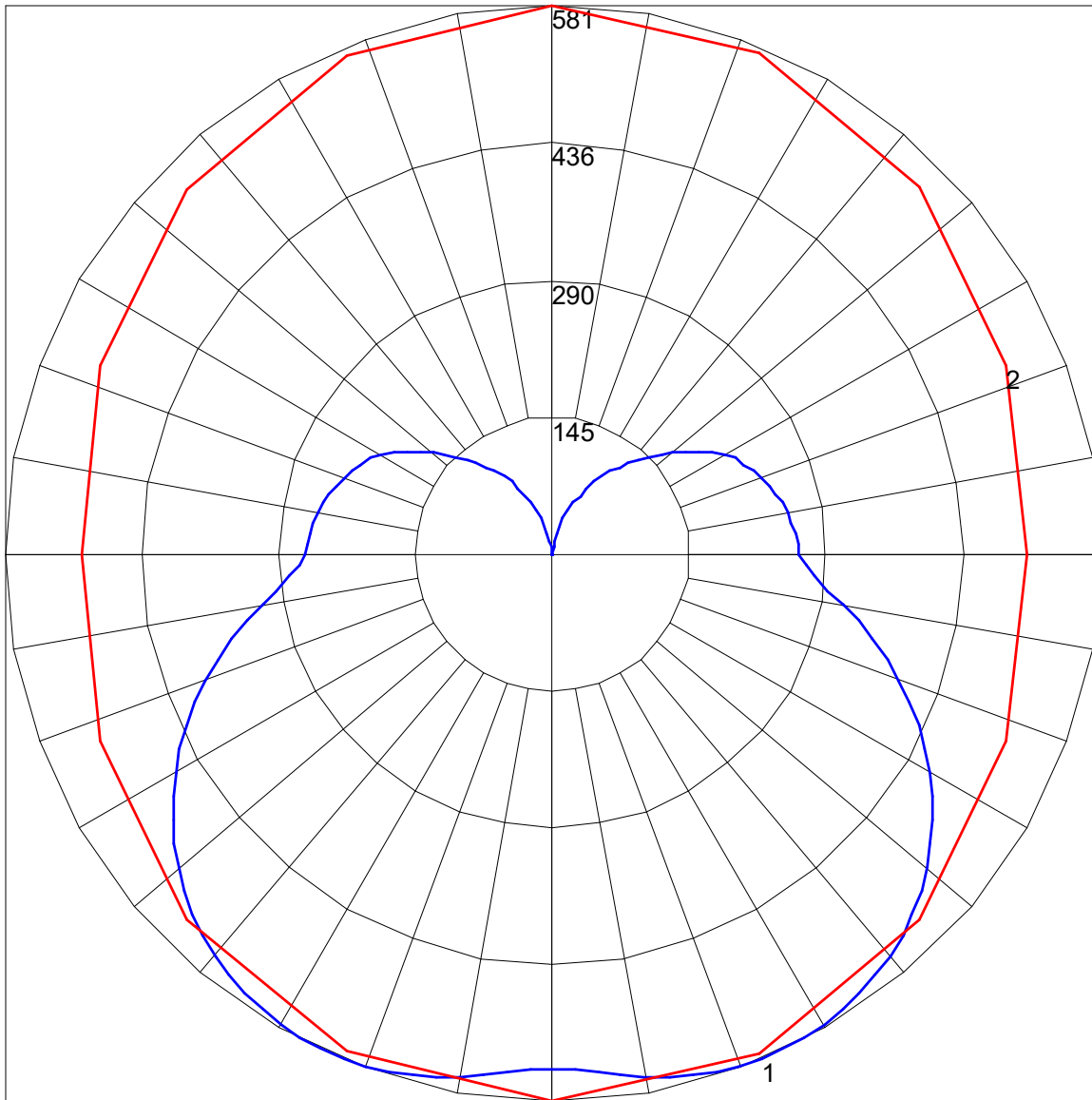
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 580.968 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.)