



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	50
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	12702	10272	10079
55	12142	9530	9416
65	11142	8661	8683
75	9121	7599	7850
85	4486	6596	7168

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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	951.125	951.125	951.125	951.125	951.125	951.125	951.125	951.125	951.125	951.125
2.5	954.625	951.750	949.625	954.750	953.750	952.250	946.500	949.875	952.125	949.875
5.0	949.250	949.000	950.125	960.250	961.125	956.875	949.000	948.625	949.125	948.625
7.5	945.625	947.125	952.250	965.500	970.000	964.375	952.375	947.250	945.250	947.250
10.0	944.000	950.250	954.875	971.625	979.250	972.125	956.375	944.500	937.375	944.500
12.5	928.250	940.500	962.750	978.250	988.375	979.750	959.125	939.250	928.750	939.250
15.0	917.250	933.375	963.750	983.875	996.125	986.375	959.000	933.125	917.000	933.125
17.5	907.500	926.500	958.875	988.500	1002.500	991.625	958.375	925.500	903.500	925.500
20.0	890.000	921.875	957.250	993.375	1006.750	994.375	955.375	915.625	887.750	915.625
22.5	873.000	907.125	954.000	998.000	1008.625	994.625	951.500	904.750	870.500	904.750
25.0	856.375	894.500	952.250	997.750	1008.125	992.375	945.125	891.500	851.625	891.500
27.5	837.375	881.625	941.750	991.750	1005.750	988.000	937.625	877.125	830.750	877.125
30.0	815.500	864.625	930.625	982.500	1001.375	982.625	928.375	861.375	808.375	861.375
32.5	792.250	846.875	919.250	974.500	995.750	976.375	917.750	844.000	784.250	844.000
35.0	767.000	827.875	908.250	966.000	988.500	968.625	905.375	824.750	758.500	824.750
37.5	740.750	807.500	892.125	955.625	979.250	957.750	890.375	803.625	731.500	803.625
40.0	713.000	785.125	876.250	943.500	968.125	944.875	874.000	780.875	702.750	780.875
42.5	683.500	761.500	858.500	929.500	954.875	929.625	855.875	756.500	672.375	756.500
45.0	652.500	735.875	839.875	913.125	938.875	912.625	835.375	730.375	640.750	730.375
47.5	621.000	708.375	816.500	893.875	921.250	892.875	813.750	702.500	607.750	702.500
50.0	587.000	678.750	792.375	872.750	900.875	871.750	790.375	673.250	573.375	673.250
52.5	551.000	647.875	766.750	849.750	878.500	848.875	765.375	642.625	537.750	642.625
55.0	514.625	615.375	739.500	825.125	854.875	824.250	738.375	610.750	500.500	610.750
57.5	477.250	581.250	710.500	799.125	829.750	798.125	710.125	577.625	462.500	577.625
60.0	438.375	546.375	680.250	771.000	802.875	770.500	680.125	543.500	423.625	543.500
62.5	398.375	510.500	648.750	741.125	774.375	741.125	648.250	507.875	383.125	507.875
65.0	357.750	473.750	615.500	710.375	743.750	709.750	614.750	470.875	341.500	470.875
67.5	316.375	436.250	581.250	678.500	712.000	677.250	579.375	432.750	299.500	432.750
70.0	274.000	397.875	546.250	645.000	679.750	643.875	543.250	394.125	258.000	394.125
72.5	232.000	358.875	510.500	611.000	646.250	609.875	506.875	355.000	216.000	355.000
75.0	190.250	320.250	474.000	576.500	611.750	575.125	470.375	315.625	174.000	315.625
77.5	148.500	282.125	437.750	542.000	577.750	540.375	434.250	276.875	132.750	276.875
80.0	108.375	245.125	402.500	507.750	544.500	506.750	399.250	240.000	94.000	240.000
82.5	71.875	210.750	370.000	476.125	513.250	475.375	366.750	206.125	58.750	206.125
85.0	40.250	181.250	341.625	449.000	486.250	448.250	339.375	177.500	29.625	177.500
87.5	16.125	159.250	320.250	428.250	466.375	428.125	319.375	157.250	0.000	157.250
90.0	0.000	148.500	309.375	417.500	455.625	418.125	310.000	148.750	0.000	148.750
92.5	0.000	146.125	306.500	414.250	452.250	415.000	307.375	146.875	0.000	146.875
95.0	0.000	144.125	303.625	410.875	448.750	411.875	304.875	142.125	0.000	142.125
97.5	0.000	142.125	300.500	406.875	444.625	407.750	301.625	138.000	0.000	138.000
100.0	0.000	139.750	296.875	402.125	439.500	403.125	297.750	137.250	0.000	137.250
102.5	0.000	135.375	292.375	396.500	433.625	397.375	291.250	132.875	0.000	132.875
105.0	0.000	127.125	287.125	390.000	426.625	390.875	283.750	125.125	0.000	125.125
107.5	0.000	119.750	281.375	382.750	418.500	383.625	276.500	118.125	0.000	118.125
110.0	0.000	113.125	274.875	374.625	410.000	375.750	271.500	108.000	0.000	108.000
112.5	0.000	106.875	265.750	366.125	400.875	367.125	260.875	97.125	0.000	97.125
115.0	0.000	101.500	253.625	356.625	390.750	357.375	238.125	87.125	0.000	87.125
117.5	0.000	96.625	239.875	344.750	379.250	344.000	213.125	78.500	0.000	78.500
120.0	0.000	92.000	227.000	329.375	365.000	327.000	191.625	71.125	0.000	71.125
122.5	0.000	87.500	215.000	311.500	347.625	307.250	172.375	64.625	0.000	64.625
125.0	0.000	83.000	203.375	293.750	327.625	285.625	155.250	60.125	0.000	60.125
127.5	0.000	78.250	191.875	276.500	308.000	258.750	141.125	56.500	0.000	56.500
130.0	0.000	74.000	181.375	259.875	289.375	230.125	127.750	54.625	0.000	54.625
132.5	0.000	69.375	170.375	244.125	271.250	204.250	114.500	53.500	0.000	53.500

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135.0	0.000	64.625	160.125	228.375	253.375	180.750	103.125	51.500	0.000	51.500
137.5	0.000	59.625	148.875	213.625	234.875	158.875	93.500	49.000	0.000	49.000
140.0	0.000	54.625	138.375	197.625	217.500	137.125	89.250	46.250	0.000	46.250
142.5	0.000	50.000	127.750	183.375	200.375	121.250	85.750	43.750	0.000	43.750
145.0	0.000	45.500	115.875	167.750	184.875	106.625	80.875	40.875	0.000	40.875
147.5	0.000	40.625	105.375	153.250	167.625	92.875	76.500	37.500	0.000	37.500
150.0	0.000	35.625	94.250	138.125	151.875	79.500	71.000	33.750	0.000	33.750
152.5	0.000	30.875	82.000	122.750	135.000	68.000	64.375	30.000	0.000	30.000
155.0	0.000	26.625	70.500	108.875	117.125	60.500	57.375	26.500	0.000	26.500
157.5	0.000	22.875	60.750	93.125	101.500	51.750	50.750	23.500	0.000	23.500
160.0	0.000	19.750	51.250	77.500	84.250	43.125	43.500	20.750	0.000	20.750
162.5	0.000	17.125	41.000	63.750	67.000	37.375	36.000	17.875	0.000	17.875
165.0	0.000	14.750	31.625	50.375	37.625	32.000	28.875	15.500	0.000	15.500
167.5	0.000	12.875	24.625	36.125	22.250	25.375	23.375	13.625	0.000	13.625
170.0	0.000	0.000	19.125	25.375	15.500	19.250	18.750	11.875	0.000	11.875
172.5	0.000	0.000	14.500	17.750	0.000	14.375	14.375	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	951.125	951.125	951.125	951.125	951.125	951.125	951.125
2.5	946.500	952.250	953.750	954.750	949.625	951.750	954.625
5.0	949.000	956.875	961.125	960.250	950.125	949.000	949.250
7.5	952.375	964.375	970.000	965.500	952.250	947.125	945.625
10.0	956.375	972.125	979.250	971.625	954.875	950.250	944.000
12.5	959.125	979.750	988.375	978.250	962.750	940.500	928.250
15.0	959.000	986.375	996.125	983.875	963.750	933.375	917.250
17.5	958.375	991.625	1002.500	988.500	958.875	926.500	907.500
20.0	955.375	994.375	1006.750	993.375	957.250	921.875	890.000
22.5	951.500	994.625	1008.625	998.000	954.000	907.125	873.000
25.0	945.125	992.375	1008.125	997.750	952.250	894.500	856.375
27.5	937.625	988.000	1005.750	991.750	941.750	881.625	837.375
30.0	928.375	982.625	1001.375	982.500	930.625	864.625	815.500
32.5	917.750	976.375	995.750	974.500	919.250	846.875	792.250
35.0	905.375	968.625	988.500	966.000	908.250	827.875	767.000
37.5	890.375	957.750	979.250	955.625	892.125	807.500	740.750
40.0	874.000	944.875	968.125	943.500	876.250	785.125	713.000
42.5	855.875	929.625	954.875	929.500	858.500	761.500	683.500
45.0	835.375	912.625	938.875	913.125	839.875	735.875	652.500
47.5	813.750	892.875	921.250	893.875	816.500	708.375	621.000
50.0	790.375	871.750	900.875	872.750	792.375	678.750	587.000
52.5	765.375	848.875	878.500	849.750	766.750	647.875	551.000
55.0	738.375	824.250	854.875	825.125	739.500	615.375	514.625
57.5	710.125	798.125	829.750	799.125	710.500	581.250	477.250
60.0	680.125	770.500	802.875	771.000	680.250	546.375	438.375
62.5	648.250	741.125	774.375	741.125	648.750	510.500	398.375
65.0	614.750	709.750	743.750	710.375	615.500	473.750	357.750
67.5	579.375	677.250	712.000	678.500	581.250	436.250	316.375
70.0	543.250	643.875	679.750	645.000	546.250	397.875	274.000
72.5	506.875	609.875	646.250	611.000	510.500	358.875	232.000
75.0	470.375	575.125	611.750	576.500	474.000	320.250	190.250
77.5	434.250	540.375	577.750	542.000	437.750	282.125	148.500
80.0	399.250	506.750	544.500	507.750	402.500	245.125	108.375

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82.5	366.750	475.375	513.250	476.125	370.000	210.750	71.875
85.0	339.375	448.250	486.250	449.000	341.625	181.250	40.250
87.5	319.375	428.125	466.375	428.250	320.250	159.250	16.125
90.0	310.000	418.125	455.625	417.500	309.375	148.500	0.000
92.5	307.375	415.000	452.250	414.250	306.500	146.125	0.000
95.0	304.875	411.875	448.750	410.875	303.625	144.125	0.000
97.5	301.625	407.750	444.625	406.875	300.500	142.125	0.000
100.0	297.750	403.125	439.500	402.125	296.875	139.750	0.000
102.5	291.250	397.375	433.625	396.500	292.375	135.375	0.000
105.0	283.750	390.875	426.625	390.000	287.125	127.125	0.000
107.5	276.500	383.625	418.500	382.750	281.375	119.750	0.000
110.0	271.500	375.750	410.000	374.625	274.875	113.125	0.000
112.5	260.875	367.125	400.875	366.125	265.750	106.875	0.000
115.0	238.125	357.375	390.750	356.625	253.625	101.500	0.000
117.5	213.125	344.000	379.250	344.750	239.875	96.625	0.000
120.0	191.625	327.000	365.000	329.375	227.000	92.000	0.000
122.5	172.375	307.250	347.625	311.500	215.000	87.500	0.000
125.0	155.250	285.625	327.625	293.750	203.375	83.000	0.000
127.5	141.125	258.750	308.000	276.500	191.875	78.250	0.000
130.0	127.750	230.125	289.375	259.875	181.375	74.000	0.000
132.5	114.500	204.250	271.250	244.125	170.375	69.375	0.000
135.0	103.125	180.750	253.375	228.375	160.125	64.625	0.000
137.5	93.500	158.875	234.875	213.625	148.875	59.625	0.000
140.0	89.250	137.125	217.500	197.625	138.375	54.625	0.000
142.5	85.750	121.250	200.375	183.375	127.750	50.000	0.000
145.0	80.875	106.625	184.875	167.750	115.875	45.500	0.000
147.5	76.500	92.875	167.625	153.250	105.375	40.625	0.000
150.0	71.000	79.500	151.875	138.125	94.250	35.625	0.000
152.5	64.375	68.000	135.000	122.750	82.000	30.875	0.000
155.0	57.375	60.500	117.125	108.875	70.500	26.625	0.000
157.5	50.750	51.750	101.500	93.125	60.750	22.875	0.000
160.0	43.500	43.125	84.250	77.500	51.250	19.750	0.000
162.5	36.000	37.375	67.000	63.750	41.000	17.125	0.000
165.0	28.875	32.000	37.625	50.375	31.625	14.750	0.000
167.5	23.375	25.375	22.250	36.125	24.625	12.875	0.000
170.0	18.750	19.250	15.500	25.375	19.125	0.000	0.000
172.5	14.375	14.375	0.000	17.750	14.500	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	362.67	N.A.	7.00
0-30	797.34	N.A.	15.50
0-40	1357.26	N.A.	26.30
0-60	2628.49	N.A.	51.00
0-80	3674.47	N.A.	71.30
0-90	4015.52	N.A.	77.90
10-90	3924.36	N.A.	76.10
20-40	994.59	N.A.	19.30
20-50	1626.77	N.A.	31.60
40-70	1851.26	N.A.	35.90
60-80	1045.98	N.A.	20.30
70-80	465.95	N.A.	9.00
80-90	341.04	N.A.	6.60
90-110	563.52	N.A.	10.90
90-120	784.38	N.A.	15.20
90-130	942.80	N.A.	18.30
90-150	1103.07	N.A.	21.40
90-180	1139.38	N.A.	22.10
110-180	575.86	N.A.	11.20
0-180	5154.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.16
10-20	271.51
20-30	434.67
30-40	559.92
40-50	632.18
50-60	639.05
60-70	580.03
70-80	465.95
80-90	341.04
90-100	295.22
100-110	268.30
110-120	220.85
120-130	158.42
130-140	101.52
140-150	58.74
150-160	27.59
160-170	8.17
170-180	0.56

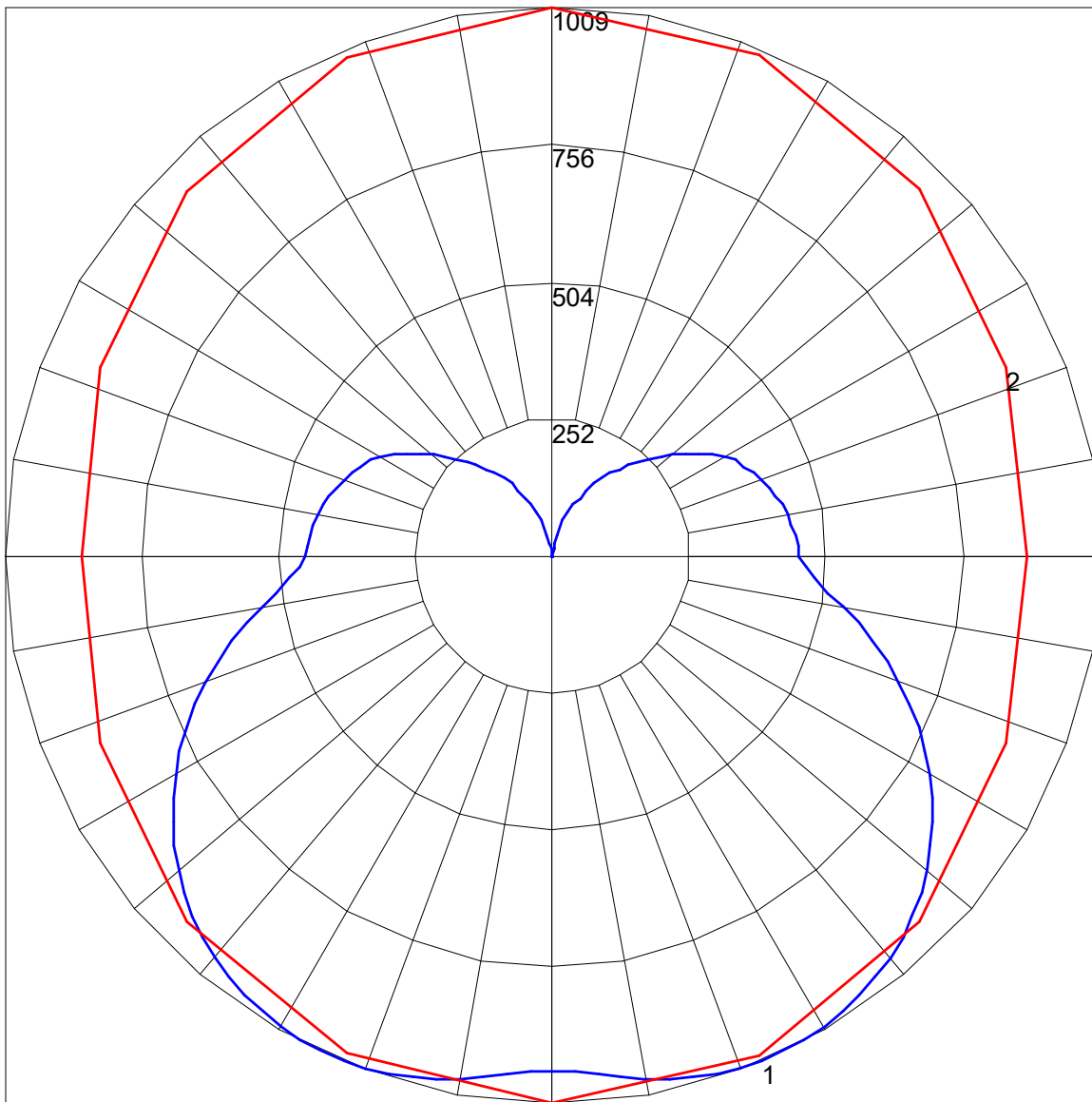
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	21	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 = 1008.625 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.)