



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A(-LED3SO-04-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31675A

[TESTLAB]LIGHTING SCIENCES, INC.

[ISSUE DATE] 4/ 2/2013

[MANUFACTURER]PRUDENTIAL LIGHTING - LED COVE LUMINAIRE

[LUMEN CATEGORY]P59-A9-LED3SO-04-W-UNV

[LUMINAIRE]WITH WHITE INTERIOR AND NO LENS

[LAMP]128 LEDS. LUMINAIRE OUTPUT = 2497 LMS

[OTHER]JONE EPTRONICS LD50W-36-C1400-RD DRIVER OPERATING AT 120 VAC AND 40.1 WATTS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2749
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.39 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8312	7385	3331
55	9593	8548	3410
65	11819	10179	3508
75	17256	13957	3674
85	45355	34323	4803

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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	449.02	449.02	449.02	449.02	449.02	449.02	449.02	449.02	449.02	449.02
2.5	475.20	473.66	470.25	462.44	456.61	427.02	408.21	394.13	389.95	394.13
5.0	499.51	494.67	482.35	469.37	455.62	405.35	369.93	345.73	338.14	345.73
7.5	531.30	523.71	502.81	473.44	454.08	383.79	333.52	300.52	290.51	300.52
10.0	563.20	553.08	524.70	481.25	451.77	362.56	298.87	258.72	246.29	258.72
12.5	595.65	582.56	546.26	490.82	448.80	341.44	265.87	219.89	205.48	219.89
15.0	627.77	611.60	567.38	500.06	445.06	320.21	234.52	183.92	167.86	183.92
17.5	659.89	640.42	587.73	508.75	440.66	298.98	204.82	150.48	133.65	150.48
20.0	691.13	668.80	607.53	516.45	435.60	277.86	177.21	120.12	102.96	120.12
22.5	722.15	697.18	627.22	523.82	429.55	257.07	151.36	92.84	75.24	92.84
25.0	753.83	725.45	646.25	530.20	423.06	237.16	127.16	68.20	50.16	68.20
27.5	782.98	752.95	664.84	535.81	415.36	217.47	104.83	45.98	28.05	45.98
30.0	810.37	778.47	682.55	540.98	407.33	198.11	83.93	26.40	9.90	26.40
32.5	834.35	801.24	699.60	544.83	398.20	179.30	64.90	10.12	0.00	10.12
35.0	856.02	821.26	714.89	548.35	388.52	161.04	47.52	3.96	0.00	3.96
37.5	871.42	838.97	728.42	551.10	378.18	143.88	32.56	3.96	0.00	3.96
40.0	868.23	848.65	740.52	553.08	366.74	127.38	19.80	3.96	0.00	3.96
42.5	861.74	843.15	750.31	554.62	354.42	111.54	15.95	4.07	0.00	4.07
45.0	852.61	833.80	757.57	555.17	341.66	96.25	15.95	4.07	0.00	4.07
47.5	841.61	822.47	756.25	555.39	328.35	82.28	15.95	4.07	0.00	4.07
50.0	828.63	809.05	744.70	554.95	314.38	69.41	15.84	4.07	0.00	4.07
52.5	814.00	793.87	729.41	553.08	299.42	57.86	15.51	3.96	0.00	3.96
55.0	798.16	777.26	711.26	550.00	283.69	47.19	15.18	3.85	0.00	3.85
57.5	780.23	758.45	691.13	545.38	267.41	38.50	14.63	3.63	0.00	3.63
60.0	762.08	738.76	669.57	538.89	250.36	36.41	13.97	3.19	0.00	3.19
62.5	743.49	719.18	647.24	529.32	233.09	34.54	12.87	2.97	0.00	2.97
65.0	724.57	699.16	624.03	509.63	215.05	32.45	11.66	2.64	0.00	2.64
67.5	705.76	678.81	599.83	485.10	196.35	30.14	10.45	2.31	0.00	2.31
70.0	685.96	657.80	574.53	458.04	176.99	27.61	9.35	1.98	0.00	1.98
72.5	667.04	637.23	549.12	428.45	157.41	24.75	8.14	1.76	0.00	1.76
75.0	647.90	616.99	524.04	397.54	137.94	21.01	7.04	1.54	0.00	1.54
77.5	628.65	597.52	499.73	365.97	119.02	17.38	6.05	1.32	0.00	1.32
80.0	610.17	578.05	477.07	334.29	101.09	13.97	5.17	1.10	0.00	1.10
82.5	591.47	559.13	454.96	302.61	83.93	10.89	4.51	0.88	0.00	0.88
85.0	573.43	540.76	433.95	272.58	60.72	8.58	4.07	0.77	0.00	0.77
87.5	556.16	522.94	414.15	244.86	31.90	7.48	3.74	0.77	0.00	0.77
90.0	539.77	506.88	397.21	223.52	24.42	7.37	3.74	0.77	0.00	0.77
92.5	533.72	501.27	391.82	214.94	50.82	8.47	4.07	0.77	0.00	0.77
95.0	522.94	490.71	377.74	203.17	90.86	9.57	4.40	0.88	0.00	0.88
97.5	496.21	462.33	356.40	196.02	107.69	10.56	4.73	0.88	0.00	0.88
100.0	469.15	440.33	339.13	177.76	118.25	11.33	5.06	0.99	0.00	0.99
102.5	447.92	419.65	318.78	333.08	125.29	11.88	5.28	0.99	0.00	0.99
105.0	423.17	395.01	292.16	494.89	128.92	12.65	5.50	1.10	0.00	1.10
107.5	394.90	366.08	255.20	264.77	131.56	13.64	5.72	1.10	0.00	1.10
110.0	361.46	330.33	213.40	247.39	131.67	14.52	5.83	1.10	0.00	1.10
112.5	318.89	282.59	495.99	231.88	131.12	15.29	5.83	1.10	0.00	1.10
115.0	264.33	224.07	929.72	218.02	130.68	16.50	5.94	1.10	0.00	1.10
117.5	214.61	415.58	371.03	205.26	129.03	17.71	5.94	1.10	0.00	1.10
120.0	516.34	897.49	181.72	193.38	125.62	20.57	6.38	1.10	0.00	1.10
122.5	1038.84	1127.72	165.44	182.16	120.56	22.33	7.04	0.99	0.00	0.99
125.0	1190.09	153.34	150.37	172.81	116.71	23.32	7.37	0.99	0.00	0.99
127.5	55.88	81.18	136.95	161.81	110.66	24.09	7.59	0.99	0.00	0.99
130.0	17.71	66.77	126.94	153.01	105.71	24.53	7.81	0.99	0.00	0.99
132.5	10.23	59.07	116.82	144.21	100.32	24.97	8.47	0.88	0.00	0.88

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135.0	5.06	48.95	106.37	134.64	95.26	25.52	10.12	0.88	0.00	0.88
137.5	1.21	42.79	96.80	124.74	90.64	26.73	10.89	0.77	0.00	0.77
140.0	0.44	38.06	88.66	114.40	84.26	27.94	11.11	0.77	0.00	0.77
142.5	0.55	32.23	81.29	100.65	77.88	28.16	11.00	0.66	0.00	0.66
145.0	0.00	29.92	72.27	91.52	73.92	28.05	10.67	0.66	0.00	0.66
147.5	0.00	24.86	65.12	80.30	66.99	27.50	10.01	0.55	0.00	0.55
150.0	0.00	21.01	57.97	71.28	58.52	26.95	9.24	0.44	0.00	0.44
152.5	0.00	18.04	50.71	62.81	54.56	26.29	8.47	0.33	0.00	0.33
155.0	0.00	14.19	43.23	51.59	46.86	25.19	7.81	0.22	0.00	0.22
157.5	0.00	11.99	36.96	45.21	39.82	23.87	7.15	0.11	0.00	0.11
160.0	0.00	7.26	27.17	36.96	34.54	22.11	6.38	0.00	0.00	0.00
162.5	0.00	5.83	22.88	27.17	25.85	20.57	5.39	0.00	0.00	0.00
165.0	0.00	0.66	13.75	24.31	22.11	12.54	3.08	0.00	0.00	0.00
167.5	0.00	0.00	12.43	13.86	13.53	11.33	0.88	0.00	0.00	0.00
170.0	0.00	0.00	1.10	12.10	9.68	2.75	0.11	0.00	0.00	0.00
172.5	0.00	0.00	0.11	0.55	0.88	0.11	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	449.02	449.02	449.02	449.02	449.02	449.02	449.02
2.5	408.21	427.02	456.61	462.44	470.25	473.66	475.20
5.0	369.93	405.35	455.62	469.37	482.35	494.67	499.51
7.5	333.52	383.79	454.08	473.44	502.81	523.71	531.30
10.0	298.87	362.56	451.77	481.25	524.70	553.08	563.20
12.5	265.87	341.44	448.80	490.82	546.26	582.56	595.65
15.0	234.52	320.21	445.06	500.06	567.38	611.60	627.77
17.5	204.82	298.98	440.66	508.75	587.73	640.42	659.89
20.0	177.21	277.86	435.60	516.45	607.53	668.80	691.13
22.5	151.36	257.07	429.55	523.82	627.22	697.18	722.15
25.0	127.16	237.16	423.06	530.20	646.25	725.45	753.83
27.5	104.83	217.47	415.36	535.81	664.84	752.95	782.98
30.0	83.93	198.11	407.33	540.98	682.55	778.47	810.37
32.5	64.90	179.30	398.20	544.83	699.60	801.24	834.35
35.0	47.52	161.04	388.52	548.35	714.89	821.26	856.02
37.5	32.56	143.88	378.18	551.10	728.42	838.97	871.42
40.0	19.80	127.38	366.74	553.08	740.52	848.65	868.23
42.5	15.95	111.54	354.42	554.62	750.31	843.15	861.74
45.0	15.95	96.25	341.66	555.17	757.57	833.80	852.61
47.5	15.95	82.28	328.35	555.39	756.25	822.47	841.61
50.0	15.84	69.41	314.38	554.95	744.70	809.05	828.63
52.5	15.51	57.86	299.42	553.08	729.41	793.87	814.00
55.0	15.18	47.19	283.69	550.00	711.26	777.26	798.16
57.5	14.63	38.50	267.41	545.38	691.13	758.45	780.23
60.0	13.97	36.41	250.36	538.89	669.57	738.76	762.08
62.5	12.87	34.54	233.09	529.32	647.24	719.18	743.49
65.0	11.66	32.45	215.05	509.63	624.03	699.16	724.57
67.5	10.45	30.14	196.35	485.10	599.83	678.81	705.76
70.0	9.35	27.61	176.99	458.04	574.53	657.80	685.96
72.5	8.14	24.75	157.41	428.45	549.12	637.23	667.04
75.0	7.04	21.01	137.94	397.54	524.04	616.99	647.90
77.5	6.05	17.38	119.02	365.97	499.73	597.52	628.65
80.0	5.17	13.97	101.09	334.29	477.07	578.05	610.17

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CANDELA TABULATION - (Cont.)

82.5	4.51	10.89	83.93	302.61	454.96	559.13	591.47
85.0	4.07	8.58	60.72	272.58	433.95	540.76	573.43
87.5	3.74	7.48	31.90	244.86	414.15	522.94	556.16
90.0	3.74	7.37	24.42	223.52	397.21	506.88	539.77
92.5	4.07	8.47	50.82	214.94	391.82	501.27	533.72
95.0	4.40	9.57	90.86	203.17	377.74	490.71	522.94
97.5	4.73	10.56	107.69	196.02	356.40	462.33	496.21
100.0	5.06	11.33	118.25	177.76	339.13	440.33	469.15
102.5	5.28	11.88	125.29	333.08	318.78	419.65	447.92
105.0	5.50	12.65	128.92	494.89	292.16	395.01	423.17
107.5	5.72	13.64	131.56	264.77	255.20	366.08	394.90
110.0	5.83	14.52	131.67	247.39	213.40	330.33	361.46
112.5	5.83	15.29	131.12	231.88	495.99	282.59	318.89
115.0	5.94	16.50	130.68	218.02	929.72	224.07	264.33
117.5	5.94	17.71	129.03	205.26	371.03	415.58	214.61
120.0	6.38	20.57	125.62	193.38	181.72	897.49	516.34
122.5	7.04	22.33	120.56	182.16	165.44	1127.72	1038.84
125.0	7.37	23.32	116.71	172.81	150.37	153.34	1190.09
127.5	7.59	24.09	110.66	161.81	136.95	81.18	55.88
130.0	7.81	24.53	105.71	153.01	126.94	66.77	17.71
132.5	8.47	24.97	100.32	144.21	116.82	59.07	10.23
135.0	10.12	25.52	95.26	134.64	106.37	48.95	5.06
137.5	10.89	26.73	90.64	124.74	96.80	42.79	1.21
140.0	11.11	27.94	84.26	114.40	88.66	38.06	0.44
142.5	11.00	28.16	77.88	100.65	81.29	32.23	0.55
145.0	10.67	28.05	73.92	91.52	72.27	29.92	0.00
147.5	10.01	27.50	66.99	80.30	65.12	24.86	0.00
150.0	9.24	26.95	58.52	71.28	57.97	21.01	0.00
152.5	8.47	26.29	54.56	62.81	50.71	18.04	0.00
155.0	7.81	25.19	46.86	51.59	43.23	14.19	0.00
157.5	7.15	23.87	39.82	45.21	36.96	11.99	0.00
160.0	6.38	22.11	34.54	36.96	27.17	7.26	0.00
162.5	5.39	20.57	25.85	27.17	22.88	5.83	0.00
165.0	3.08	12.54	22.11	24.31	13.75	0.66	0.00
167.5	0.88	11.33	13.53	13.86	12.43	0.00	0.00
170.0	0.11	2.75	9.68	12.10	1.10	0.00	0.00
172.5	0.00	0.11	0.88	0.55	0.11	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	156.10	N.A.	5.70
0-30	338.87	N.A.	12.30
0-40	583.30	N.A.	21.20
0-60	1187.62	N.A.	43.20
0-80	1759.82	N.A.	64.00
0-90	1979.66	N.A.	72.00
10-90	1938.95	N.A.	70.50
20-40	427.20	N.A.	15.50
20-50	719.62	N.A.	26.20
40-70	908.15	N.A.	33.00
60-80	572.20	N.A.	20.80
70-80	268.38	N.A.	9.80
80-90	219.84	N.A.	8.00
90-110	372.57	N.A.	13.60
90-120	547.28	N.A.	19.90
90-130	689.77	N.A.	25.10
90-150	755.41	N.A.	27.50
90-180	769.74	N.A.	28.00
110-180	397.17	N.A.	14.40
0-180	2749.4	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.71
10-20	115.39
20-30	182.77
30-40	244.43
40-50	292.42
50-60	311.90
60-70	303.82
70-80	268.38
80-90	219.84
90-100	192.49
100-110	180.07
110-120	174.71
120-130	142.49
130-140	41.51
140-150	24.13
150-160	11.26
160-170	3.00
170-180	0.07

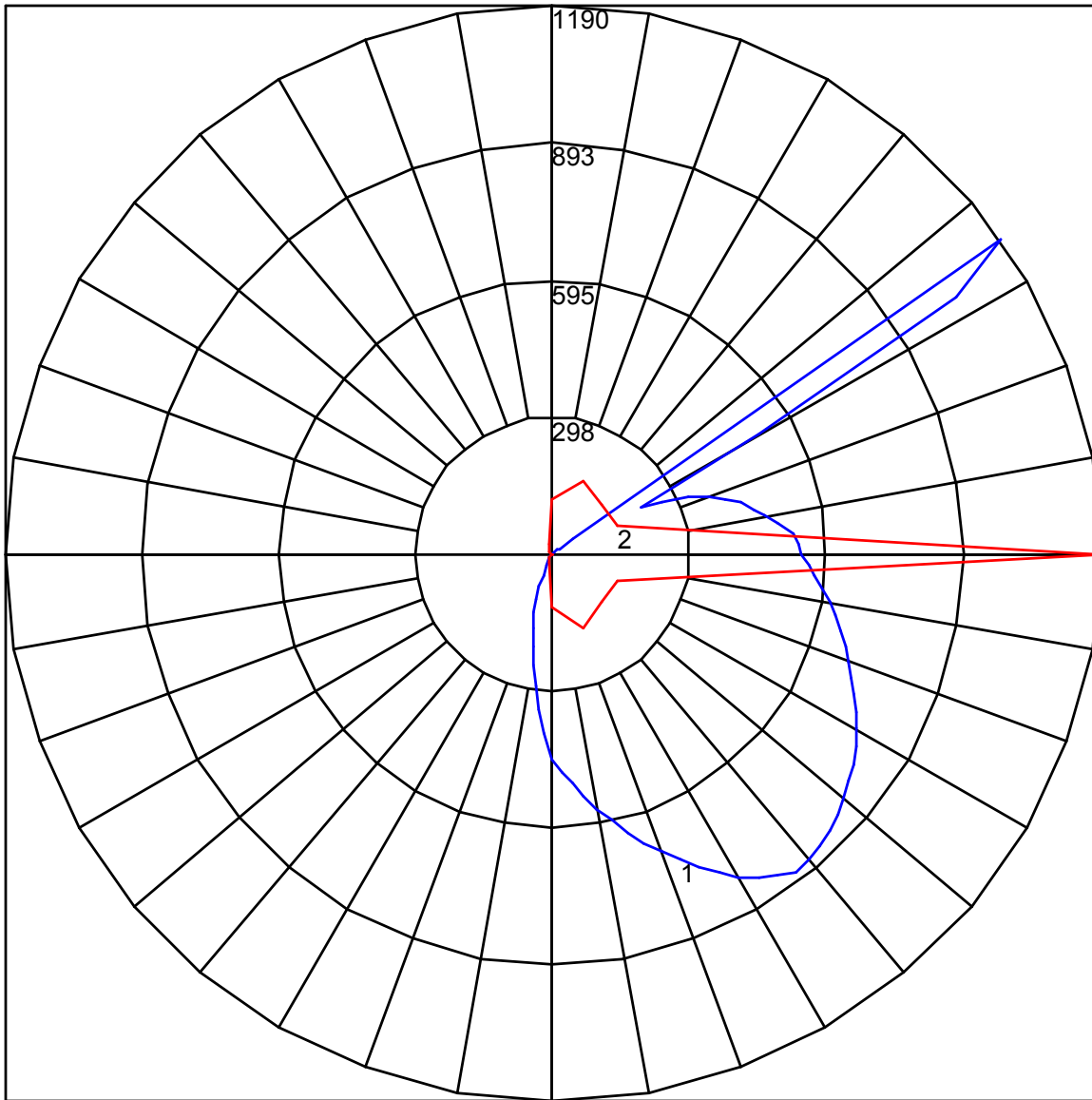
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	99	93	87	82	93	88	83	78	78	74	71	69	66	63	61	59	57	53
2	88	79	71	64	83	74	67	61	66	60	55	59	54	50	52	48	45	41
3	80	68	59	51	75	64	56	49	57	50	45	51	45	40	44	40	36	33
4	72	59	50	42	68	56	47	41	50	43	37	44	38	34	39	34	30	27
5	66	52	43	36	62	50	41	34	44	37	31	39	33	28	35	30	26	23
6	61	47	37	31	57	44	36	29	40	32	27	35	29	24	31	26	22	19
7	56	42	33	26	53	40	31	25	36	29	23	32	26	21	28	23	19	17
8	52	38	29	23	49	36	28	22	32	25	21	29	23	19	26	21	17	15
9	48	35	26	21	45	33	25	20	30	23	18	27	21	17	24	19	15	13
10	45	32	24	18	42	30	23	18	27	21	16	25	19	15	22	17	14	12

POLAR GRAPH



Maximum Candela = 1190.09 Located At Horizontal Angle = 0, Vertical Angle = 125

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (125) (Through Max. Cd.)