



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A9-LED3LO-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
 [LUMCAT]P59-A9-LED3LO-04-W-UNV
 [LUMINAIRE]WITH WHITE INTERIOR AND NO LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	20
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	3325	2954	1332
55	3837	3419	1364
65	4727	4072	1403
75	6903	5583	1470
85	18142	13729	1921

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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	179.608	179.608	179.608	179.608	179.608	179.608	179.608	179.608	179.608	179.608
2.5	190.080	189.464	188.100	184.976	182.644	170.808	163.284	157.652	155.980	157.652
5.0	199.804	197.868	192.940	187.748	182.248	162.140	147.972	138.292	135.256	138.292
7.5	212.520	209.484	201.124	189.376	181.632	153.516	133.408	120.208	116.204	120.208
10.0	225.280	221.232	209.880	192.500	180.708	145.024	119.548	103.488	98.516	103.488
12.5	238.260	233.024	218.504	196.328	179.520	136.576	106.348	87.956	82.192	87.956
15.0	251.108	244.640	226.952	200.024	178.024	128.084	93.808	73.568	67.144	73.568
17.5	263.956	256.168	235.092	203.500	176.264	119.592	81.928	60.192	53.460	60.192
20.0	276.452	267.520	243.012	206.580	174.240	111.144	70.884	48.048	41.184	48.048
22.5	288.860	278.872	250.888	209.528	171.820	102.828	60.544	37.136	30.096	37.136
25.0	301.532	290.180	258.500	212.080	169.224	94.864	50.864	27.280	20.064	27.280
27.5	313.192	301.180	265.936	214.324	166.144	86.988	41.932	18.392	11.220	18.392
30.0	324.148	311.388	273.020	216.392	162.932	79.244	33.572	10.560	3.960	10.560
32.5	333.740	320.496	279.840	217.932	159.280	71.720	25.960	4.048	0.000	4.048
35.0	342.408	328.504	285.956	219.340	155.408	64.416	19.008	1.584	0.000	1.584
37.5	348.568	335.588	291.368	220.440	151.272	57.552	13.024	1.584	0.000	1.584
40.0	347.292	339.460	296.208	221.232	146.696	50.952	7.920	1.584	0.000	1.584
42.5	344.696	337.260	300.124	221.848	141.768	44.616	6.380	1.628	0.000	1.628
45.0	341.044	333.520	303.028	222.068	136.664	38.500	6.380	1.628	0.000	1.628
47.5	336.644	328.988	302.500	222.156	131.340	32.912	6.380	1.628	0.000	1.628
50.0	331.452	323.620	297.880	221.980	125.752	27.764	6.336	1.628	0.000	1.628
52.5	325.600	317.548	291.764	221.232	119.768	23.144	6.204	1.584	0.000	1.584
55.0	319.264	310.904	284.504	220.000	113.476	18.876	6.072	1.540	0.000	1.540
57.5	312.092	303.380	276.452	218.152	106.964	15.400	5.852	1.452	0.000	1.452
60.0	304.832	295.504	267.828	215.556	100.144	14.564	5.588	1.276	0.000	1.276
62.5	297.396	287.672	258.896	211.728	93.236	13.816	5.148	1.188	0.000	1.188
65.0	289.828	279.664	249.612	203.852	86.020	12.980	4.664	1.056	0.000	1.056
67.5	282.304	271.524	239.932	194.040	78.540	12.056	4.180	0.924	0.000	0.924
70.0	274.384	263.120	229.812	183.216	70.796	11.044	3.740	0.792	0.000	0.792
72.5	266.816	254.892	219.648	171.380	62.964	9.900	3.256	0.704	0.000	0.704
75.0	259.160	246.796	209.616	159.016	55.176	8.404	2.816	0.616	0.000	0.616
77.5	251.460	239.008	199.892	146.388	47.608	6.952	2.420	0.528	0.000	0.528
80.0	244.068	231.220	190.828	133.716	40.436	5.588	2.068	0.440	0.000	0.440
82.5	236.588	223.652	181.984	121.044	33.572	4.356	1.804	0.352	0.000	0.352
85.0	229.372	216.304	173.580	109.032	24.288	3.432	1.628	0.308	0.000	0.308
87.5	222.464	209.176	165.660	97.944	12.760	2.992	1.496	0.308	0.000	0.308
90.0	215.908	202.752	158.884	89.408	9.768	2.948	1.496	0.308	0.000	0.308
92.5	213.488	200.508	156.728	85.976	20.328	3.388	1.628	0.308	0.000	0.308
95.0	209.176	196.284	151.096	81.268	36.344	3.828	1.760	0.352	0.000	0.352
97.5	198.484	184.932	142.560	78.408	43.076	4.224	1.892	0.352	0.000	0.352
100.0	187.660	176.132	135.652	71.104	47.300	4.532	2.024	0.396	0.000	0.396
102.5	179.168	167.860	127.512	133.232	50.116	4.752	2.112	0.396	0.000	0.396
105.0	169.268	158.004	116.864	197.956	51.568	5.060	2.200	0.440	0.000	0.440
107.5	157.960	146.432	102.080	105.908	52.624	5.456	2.288	0.440	0.000	0.440
110.0	144.584	132.132	85.360	98.956	52.668	5.808	2.332	0.440	0.000	0.440
112.5	127.556	113.036	198.396	92.752	52.448	6.116	2.332	0.440	0.000	0.440
115.0	105.732	89.628	371.888	87.208	52.272	6.600	2.376	0.440	0.000	0.440
117.5	85.844	166.232	148.412	82.104	51.612	7.084	2.376	0.440	0.000	0.440
120.0	206.536	358.996	72.688	77.352	50.248	8.228	2.552	0.440	0.000	0.440
122.5	415.536	451.088	66.176	72.864	48.224	8.932	2.816	0.396	0.000	0.396
125.0	476.036	61.336	60.148	69.124	46.684	9.328	2.948	0.396	0.000	0.396
127.5	22.352	32.472	54.780	64.724	44.264	9.636	3.036	0.396	0.000	0.396
130.0	7.084	26.708	50.776	61.204	42.284	9.812	3.124	0.396	0.000	0.396
132.5	4.092	23.628	46.728	57.684	40.128	9.988	3.388	0.352	0.000	0.352

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135.0	2.024	19.580	42.548	53.856	38.104	10.208	4.048	0.352	0.000	0.352
137.5	0.484	17.116	38.720	49.896	36.256	10.692	4.356	0.308	0.000	0.308
140.0	0.176	15.224	35.464	45.760	33.704	11.176	4.444	0.308	0.000	0.308
142.5	0.220	12.892	32.516	40.260	31.152	11.264	4.400	0.264	0.000	0.264
145.0	0.000	11.968	28.908	36.608	29.568	11.220	4.268	0.264	0.000	0.264
147.5	0.000	9.944	26.048	32.120	26.796	11.000	4.004	0.220	0.000	0.220
150.0	0.000	8.404	23.188	28.512	23.408	10.780	3.696	0.176	0.000	0.176
152.5	0.000	7.216	20.284	25.124	21.824	10.516	3.388	0.132	0.000	0.132
155.0	0.000	5.676	17.292	20.636	18.744	10.076	3.124	0.088	0.000	0.088
157.5	0.000	4.796	14.784	18.084	15.928	9.548	2.860	0.044	0.000	0.044
160.0	0.000	2.904	10.868	14.784	13.816	8.844	2.552	0.000	0.000	0.000
162.5	0.000	2.332	9.152	10.868	10.340	8.228	2.156	0.000	0.000	0.000
165.0	0.000	0.264	5.500	9.724	8.844	5.016	1.232	0.000	0.000	0.000
167.5	0.000	0.000	4.972	5.544	5.412	4.532	0.352	0.000	0.000	0.000
170.0	0.000	0.000	0.440	4.840	3.872	1.100	0.044	0.000	0.000	0.000
172.5	0.000	0.000	0.044	0.220	0.352	0.044	0.000	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						
	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	179.608	179.608	179.608	179.608	179.608	179.608	179.608
2.5	163.284	170.808	182.644	184.976	188.100	189.464	190.080
5.0	147.972	162.140	182.248	187.748	192.940	197.868	199.804
7.5	133.408	153.516	181.632	189.376	201.124	209.484	212.520
10.0	119.548	145.024	180.708	192.500	209.880	221.232	225.280
12.5	106.348	136.576	179.520	196.328	218.504	233.024	238.260
15.0	93.808	128.084	178.024	200.024	226.952	244.640	251.108
17.5	81.928	119.592	176.264	203.500	235.092	256.168	263.956
20.0	70.884	111.144	174.240	206.580	243.012	267.520	276.452
22.5	60.544	102.828	171.820	209.528	250.888	278.872	288.860
25.0	50.864	94.864	169.224	212.080	258.500	290.180	301.532
27.5	41.932	86.988	166.144	214.324	265.936	301.180	313.192
30.0	33.572	79.244	162.932	216.392	273.020	311.388	324.148
32.5	25.960	71.720	159.280	217.932	279.840	320.496	333.740
35.0	19.008	64.416	155.408	219.340	285.956	328.504	342.408
37.5	13.024	57.552	151.272	220.440	291.368	335.588	348.568
40.0	7.920	50.952	146.696	221.232	296.208	339.460	347.292
42.5	6.380	44.616	141.768	221.848	300.124	337.260	344.696
45.0	6.380	38.500	136.664	222.068	303.028	333.520	341.044
47.5	6.380	32.912	131.340	222.156	302.500	328.988	336.644
50.0	6.336	27.764	125.752	221.980	297.880	323.620	331.452
52.5	6.204	23.144	119.768	221.232	291.764	317.548	325.600
55.0	6.072	18.876	113.476	220.000	284.504	310.904	319.264
57.5	5.852	15.400	106.964	218.152	276.452	303.380	312.092
60.0	5.588	14.564	100.144	215.556	267.828	295.504	304.832
62.5	5.148	13.816	93.236	211.728	258.896	287.672	297.396
65.0	4.664	12.980	86.020	203.852	249.612	279.664	289.828
67.5	4.180	12.056	78.540	194.040	239.932	271.524	282.304
70.0	3.740	11.044	70.796	183.216	229.812	263.120	274.384
72.5	3.256	9.900	62.964	171.380	219.648	254.892	266.816
75.0	2.816	8.404	55.176	159.016	209.616	246.796	259.160
77.5	2.420	6.952	47.608	146.388	199.892	239.008	251.460
80.0	2.068	5.588	40.436	133.716	190.828	231.220	244.068

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CANDELA TABULATION - (Cont.)

82.5	1.804	4.356	33.572	121.044	181.984	223.652	236.588
85.0	1.628	3.432	24.288	109.032	173.580	216.304	229.372
87.5	1.496	2.992	12.760	97.944	165.660	209.176	222.464
90.0	1.496	2.948	9.768	89.408	158.884	202.752	215.908
92.5	1.628	3.388	20.328	85.976	156.728	200.508	213.488
95.0	1.760	3.828	36.344	81.268	151.096	196.284	209.176
97.5	1.892	4.224	43.076	78.408	142.560	184.932	198.484
100.0	2.024	4.532	47.300	71.104	135.652	176.132	187.660
102.5	2.112	4.752	50.116	133.232	127.512	167.860	179.168
105.0	2.200	5.060	51.568	197.956	116.864	158.004	169.268
107.5	2.288	5.456	52.624	105.908	102.080	146.432	157.960
110.0	2.332	5.808	52.668	98.956	85.360	132.132	144.584
112.5	2.332	6.116	52.448	92.752	198.396	113.036	127.556
115.0	2.376	6.600	52.272	87.208	371.888	89.628	105.732
117.5	2.376	7.084	51.612	82.104	148.412	166.232	85.844
120.0	2.552	8.228	50.248	77.352	72.688	358.996	206.536
122.5	2.816	8.932	48.224	72.864	66.176	451.088	415.536
125.0	2.948	9.328	46.684	69.124	60.148	61.336	476.036
127.5	3.036	9.636	44.264	64.724	54.780	32.472	22.352
130.0	3.124	9.812	42.284	61.204	50.776	26.708	7.084
132.5	3.388	9.988	40.128	57.684	46.728	23.628	4.092
135.0	4.048	10.208	38.104	53.856	42.548	19.580	2.024
137.5	4.356	10.692	36.256	49.896	38.720	17.116	0.484
140.0	4.444	11.176	33.704	45.760	35.464	15.224	0.176
142.5	4.400	11.264	31.152	40.260	32.516	12.892	0.220
145.0	4.268	11.220	29.568	36.608	28.908	11.968	0.000
147.5	4.004	11.000	26.796	32.120	26.048	9.944	0.000
150.0	3.696	10.780	23.408	28.512	23.188	8.404	0.000
152.5	3.388	10.516	21.824	25.124	20.284	7.216	0.000
155.0	3.124	10.076	18.744	20.636	17.292	5.676	0.000
157.5	2.860	9.548	15.928	18.084	14.784	4.796	0.000
160.0	2.552	8.844	13.816	14.784	10.868	2.904	0.000
162.5	2.156	8.228	10.340	10.868	9.152	2.332	0.000
165.0	1.232	5.016	8.844	9.724	5.500	0.264	0.000
167.5	0.352	4.532	5.412	5.544	4.972	0.000	0.000
170.0	0.044	1.100	3.872	4.840	0.440	0.000	0.000
172.5	0.000	0.044	0.352	0.220	0.044	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	62.44	N.A.	5.70
0-30	135.55	N.A.	12.30
0-40	233.32	N.A.	21.20
0-60	475.05	N.A.	43.20
0-80	703.93	N.A.	64.00
0-90	791.86	N.A.	72.00
10-90	775.58	N.A.	70.50
20-40	170.88	N.A.	15.50
20-50	287.85	N.A.	26.20
40-70	363.26	N.A.	33.00
60-80	228.88	N.A.	20.80
70-80	107.35	N.A.	9.80
80-90	87.93	N.A.	8.00
90-110	149.03	N.A.	13.60
90-120	218.91	N.A.	19.90
90-130	275.91	N.A.	25.10
90-150	302.16	N.A.	27.50
90-180	307.90	N.A.	28.00
110-180	158.87	N.A.	14.40
0-180	1099.76	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.28
10-20	46.16
20-30	73.11
30-40	97.77
40-50	116.97
50-60	124.76
60-70	121.53
70-80	107.35
80-90	87.93
90-100	77.00
100-110	72.03
110-120	69.88
120-130	57.00
130-140	16.60
140-150	9.65
150-160	4.50
160-170	1.20
170-180	0.03

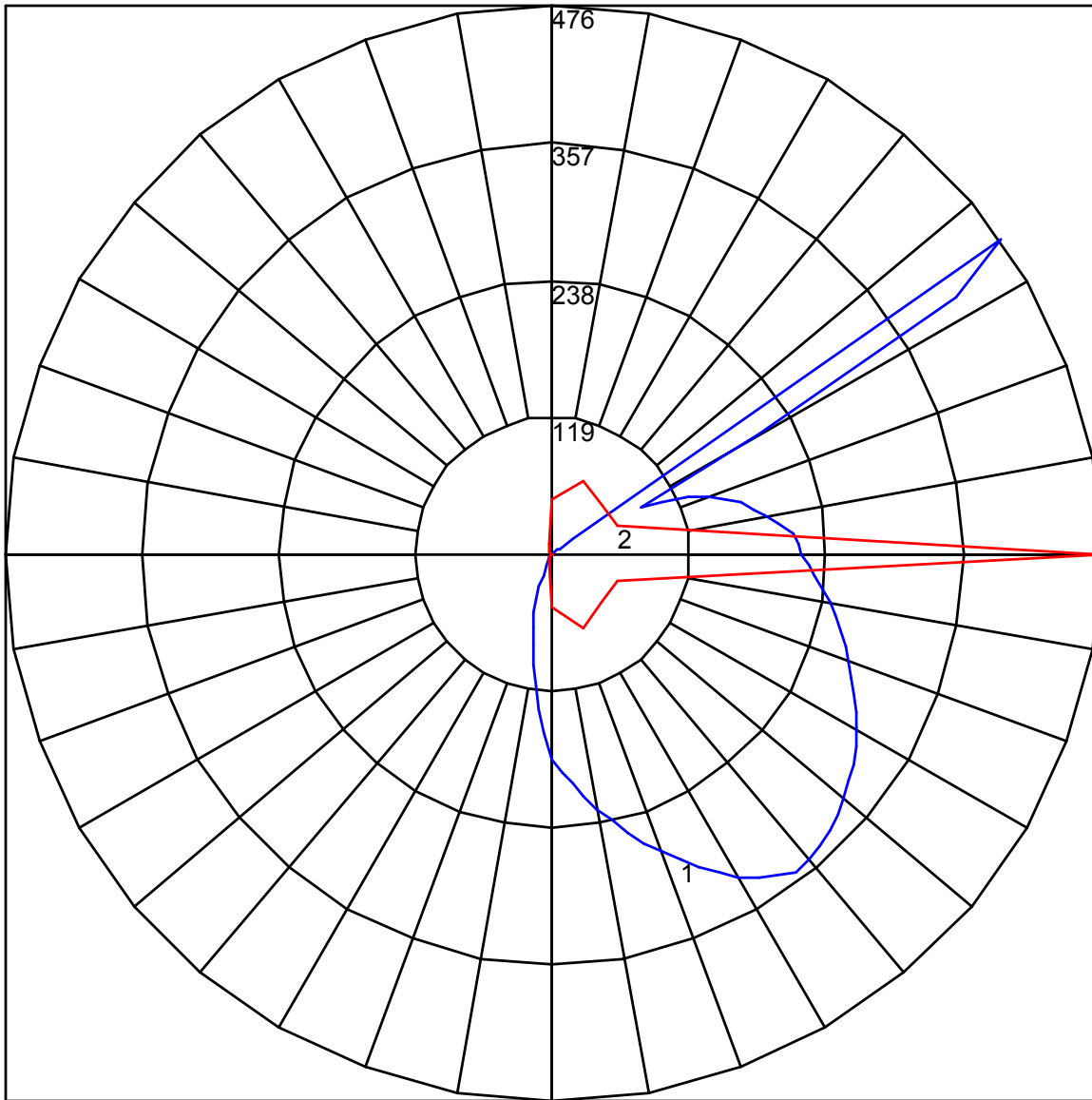
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	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	50	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	20	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 = 476.036 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.)