



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A6-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  
 [LUMEN CATEGORY]P59-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	1300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	19
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	3929	3491	1575
55	4535	4041	1612
65	5587	4812	1658
75	8158	6598	1737
85	21440	16225	2270

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**PHOTOMETRIC FILENAME : P59-A6-LED3LO-04-W.IES**

**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	212.264	212.264	212.264	212.264	212.264	212.264	212.264	212.264	212.264	212.264
<b>2.5</b>	224.640	223.912	222.300	218.608	215.852	201.864	192.972	186.316	184.340	186.316
<b>5.0</b>	236.132	233.844	228.020	221.884	215.384	191.620	174.876	163.436	159.848	163.436
<b>7.5</b>	251.160	247.572	237.692	223.808	214.656	181.428	157.664	142.064	137.332	142.064
<b>10.0</b>	266.240	261.456	248.040	227.500	213.564	171.392	141.284	122.304	116.428	122.304
<b>12.5</b>	281.580	275.392	258.232	232.024	212.160	161.408	125.684	103.948	97.136	103.948
<b>15.0</b>	296.764	289.120	268.216	236.392	210.392	151.372	110.864	86.944	79.352	86.944
<b>17.5</b>	311.948	302.744	277.836	240.500	208.312	141.336	96.824	71.136	63.180	71.136
<b>20.0</b>	326.716	316.160	287.196	244.140	205.920	131.352	83.772	56.784	48.672	56.784
<b>22.5</b>	341.380	329.576	296.504	247.624	203.060	121.524	71.552	43.888	35.568	43.888
<b>25.0</b>	356.356	342.940	305.500	250.640	199.992	112.112	60.112	32.240	23.712	32.240
<b>27.5</b>	370.136	355.940	314.288	253.292	196.352	102.804	49.556	21.736	13.260	21.736
<b>30.0</b>	383.084	368.004	322.660	255.736	192.556	93.652	39.676	12.480	4.680	12.480
<b>32.5</b>	394.420	378.768	330.720	257.556	188.240	84.760	30.680	4.784	0.000	4.784
<b>35.0</b>	404.664	388.232	337.948	259.220	183.664	76.128	22.464	1.872	0.000	1.872
<b>37.5</b>	411.944	396.604	344.344	260.520	178.776	68.016	15.392	1.872	0.000	1.872
<b>40.0</b>	410.436	401.180	350.064	261.456	173.368	60.216	9.360	1.872	0.000	1.872
<b>42.5</b>	407.368	398.580	354.692	262.184	167.544	52.728	7.540	1.924	0.000	1.924
<b>45.0</b>	403.052	394.160	358.124	262.444	161.512	45.500	7.540	1.924	0.000	1.924
<b>47.5</b>	397.852	388.804	357.500	262.548	155.220	38.896	7.540	1.924	0.000	1.924
<b>50.0</b>	391.716	382.460	352.040	262.340	148.616	32.812	7.488	1.924	0.000	1.924
<b>52.5</b>	384.800	375.284	344.812	261.456	141.544	27.352	7.332	1.872	0.000	1.872
<b>55.0</b>	377.312	367.432	336.232	260.000	134.108	22.308	7.176	1.820	0.000	1.820
<b>57.5</b>	368.836	358.540	326.716	257.816	126.412	18.200	6.916	1.716	0.000	1.716
<b>60.0</b>	360.256	349.232	316.524	254.748	118.352	17.212	6.604	1.508	0.000	1.508
<b>62.5</b>	351.468	339.976	305.968	250.224	110.188	16.328	6.084	1.404	0.000	1.404
<b>65.0</b>	342.524	330.512	294.996	240.916	101.660	15.340	5.512	1.248	0.000	1.248
<b>67.5</b>	333.632	320.892	283.556	229.320	92.820	14.248	4.940	1.092	0.000	1.092
<b>70.0</b>	324.272	310.960	271.596	216.528	83.668	13.052	4.420	0.936	0.000	0.936
<b>72.5</b>	315.328	301.236	259.584	202.540	74.412	11.700	3.848	0.832	0.000	0.832
<b>75.0</b>	306.280	291.668	247.728	187.928	65.208	9.932	3.328	0.728	0.000	0.728
<b>77.5</b>	297.180	282.464	236.236	173.004	56.264	8.216	2.860	0.624	0.000	0.624
<b>80.0</b>	288.444	273.260	225.524	158.028	47.788	6.604	2.444	0.520	0.000	0.520
<b>82.5</b>	279.604	264.316	215.072	143.052	39.676	5.148	2.132	0.416	0.000	0.416
<b>85.0</b>	271.076	255.632	205.140	128.856	28.704	4.056	1.924	0.364	0.000	0.364
<b>87.5</b>	262.912	247.208	195.780	115.752	15.080	3.536	1.768	0.364	0.000	0.364
<b>90.0</b>	255.164	239.616	187.772	105.664	11.544	3.484	1.768	0.364	0.000	0.364
<b>92.5</b>	252.304	236.964	185.224	101.608	24.024	4.004	1.924	0.364	0.000	0.364
<b>95.0</b>	247.208	231.972	178.568	96.044	42.952	4.524	2.080	0.416	0.000	0.416
<b>97.5</b>	234.572	218.556	168.480	92.664	50.908	4.992	2.236	0.416	0.000	0.416
<b>100.0</b>	221.780	208.156	160.316	84.032	55.900	5.356	2.392	0.468	0.000	0.468
<b>102.5</b>	211.744	198.380	150.696	157.456	59.228	5.616	2.496	0.468	0.000	0.468
<b>105.0</b>	200.044	186.732	138.112	233.948	60.944	5.980	2.600	0.520	0.000	0.520
<b>107.5</b>	186.680	173.056	120.640	125.164	62.192	6.448	2.704	0.520	0.000	0.520
<b>110.0</b>	170.872	156.156	100.880	116.948	62.244	6.864	2.756	0.520	0.000	0.520
<b>112.5</b>	150.748	133.588	234.468	109.616	61.984	7.228	2.756	0.520	0.000	0.520
<b>115.0</b>	124.956	105.924	439.504	103.064	61.776	7.800	2.808	0.520	0.000	0.520
<b>117.5</b>	101.452	196.456	175.396	97.032	60.996	8.372	2.808	0.520	0.000	0.520
<b>120.0</b>	244.088	424.268	85.904	91.416	59.384	9.724	3.016	0.520	0.000	0.520
<b>122.5</b>	491.088	533.104	78.208	86.112	56.992	10.556	3.328	0.468	0.000	0.468
<b>125.0</b>	562.588	72.488	71.084	81.692	55.172	11.024	3.484	0.468	0.000	0.468
<b>127.5</b>	26.416	38.376	64.740	76.492	52.312	11.388	3.588	0.468	0.000	0.468
<b>130.0</b>	8.372	31.564	60.008	72.332	49.972	11.596	3.692	0.468	0.000	0.468
<b>132.5</b>	4.836	27.924	55.224	68.172	47.424	11.804	4.004	0.416	0.000	0.416

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A6-LED3LO-04-W.IES**

**CANDELA TABULATION - (Cont.)**

135.0	2.392	23.140	50.284	63.648	45.032	12.064	4.784	0.416	0.000	0.416
137.5	0.572	20.228	45.760	58.968	42.848	12.636	5.148	0.364	0.000	0.364
140.0	0.208	17.992	41.912	54.080	39.832	13.208	5.252	0.364	0.000	0.364
142.5	0.260	15.236	38.428	47.580	36.816	13.312	5.200	0.312	0.000	0.312
145.0	0.000	14.144	34.164	43.264	34.944	13.260	5.044	0.312	0.000	0.312
147.5	0.000	11.752	30.784	37.960	31.668	13.000	4.732	0.260	0.000	0.260
150.0	0.000	9.932	27.404	33.696	27.664	12.740	4.368	0.208	0.000	0.208
152.5	0.000	8.528	23.972	29.692	25.792	12.428	4.004	0.156	0.000	0.156
155.0	0.000	6.708	20.436	24.388	22.152	11.908	3.692	0.104	0.000	0.104
157.5	0.000	5.668	17.472	21.372	18.824	11.284	3.380	0.052	0.000	0.052
160.0	0.000	3.432	12.844	17.472	16.328	10.452	3.016	0.000	0.000	0.000
162.5	0.000	2.756	10.816	12.844	12.220	9.724	2.548	0.000	0.000	0.000
165.0	0.000	0.312	6.500	11.492	10.452	5.928	1.456	0.000	0.000	0.000
167.5	0.000	0.000	5.876	6.552	6.396	5.356	0.416	0.000	0.000	0.000
170.0	0.000	0.000	0.520	5.720	4.576	1.300	0.052	0.000	0.000	0.000
172.5	0.000	0.000	0.052	0.260	0.416	0.052	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**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	212.264	212.264	212.264	212.264	212.264	212.264	212.264
2.5	192.972	201.864	215.852	218.608	222.300	223.912	224.640
5.0	174.876	191.620	215.384	221.884	228.020	233.844	236.132
7.5	157.664	181.428	214.656	223.808	237.692	247.572	251.160
10.0	141.284	171.392	213.564	227.500	248.040	261.456	266.240
12.5	125.684	161.408	212.160	232.024	258.232	275.392	281.580
15.0	110.864	151.372	210.392	236.392	268.216	289.120	296.764
17.5	96.824	141.336	208.312	240.500	277.836	302.744	311.948
20.0	83.772	131.352	205.920	244.140	287.196	316.160	326.716
22.5	71.552	121.524	203.060	247.624	296.504	329.576	341.380
25.0	60.112	112.112	199.992	250.640	305.500	342.940	356.356
27.5	49.556	102.804	196.352	253.292	314.288	355.940	370.136
30.0	39.676	93.652	192.556	255.736	322.660	368.004	383.084
32.5	30.680	84.760	188.240	257.556	330.720	378.768	394.420
35.0	22.464	76.128	183.664	259.220	337.948	388.232	404.664
37.5	15.392	68.016	178.776	260.520	344.344	396.604	411.944
40.0	9.360	60.216	173.368	261.456	350.064	401.180	410.436
42.5	7.540	52.728	167.544	262.184	354.692	398.580	407.368
45.0	7.540	45.500	161.512	262.444	358.124	394.160	403.052
47.5	7.540	38.896	155.220	262.548	357.500	388.804	397.852
50.0	7.488	32.812	148.616	262.340	352.040	382.460	391.716
52.5	7.332	27.352	141.544	261.456	344.812	375.284	384.800
55.0	7.176	22.308	134.108	260.000	336.232	367.432	377.312
57.5	6.916	18.200	126.412	257.816	326.716	358.540	368.836
60.0	6.604	17.212	118.352	254.748	316.524	349.232	360.256
62.5	6.084	16.328	110.188	250.224	305.968	339.976	351.468
65.0	5.512	15.340	101.660	240.916	294.996	330.512	342.524
67.5	4.940	14.248	92.820	229.320	283.556	320.892	333.632
70.0	4.420	13.052	83.668	216.528	271.596	310.960	324.272
72.5	3.848	11.700	74.412	202.540	259.584	301.236	315.328
75.0	3.328	9.932	65.208	187.928	247.728	291.668	306.280
77.5	2.860	8.216	56.264	173.004	236.236	282.464	297.180
80.0	2.444	6.604	47.788	158.028	225.524	273.260	288.444

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P59-A6-LED3LO-04-W.IES**

**CANDELA TABULATION - (Cont.)**

82.5	2.132	5.148	39.676	143.052	215.072	264.316	279.604
85.0	1.924	4.056	28.704	128.856	205.140	255.632	271.076
87.5	1.768	3.536	15.080	115.752	195.780	247.208	262.912
90.0	1.768	3.484	11.544	105.664	187.772	239.616	255.164
92.5	1.924	4.004	24.024	101.608	185.224	236.964	252.304
95.0	2.080	4.524	42.952	96.044	178.568	231.972	247.208
97.5	2.236	4.992	50.908	92.664	168.480	218.556	234.572
100.0	2.392	5.356	55.900	84.032	160.316	208.156	221.780
102.5	2.496	5.616	59.228	157.456	150.696	198.380	211.744
105.0	2.600	5.980	60.944	233.948	138.112	186.732	200.044
107.5	2.704	6.448	62.192	125.164	120.640	173.056	186.680
110.0	2.756	6.864	62.244	116.948	100.880	156.156	170.872
112.5	2.756	7.228	61.984	109.616	234.468	133.588	150.748
115.0	2.808	7.800	61.776	103.064	439.504	105.924	124.956
117.5	2.808	8.372	60.996	97.032	175.396	196.456	101.452
120.0	3.016	9.724	59.384	91.416	85.904	424.268	244.088
122.5	3.328	10.556	56.992	86.112	78.208	533.104	491.088
125.0	3.484	11.024	55.172	81.692	71.084	72.488	562.588
127.5	3.588	11.388	52.312	76.492	64.740	38.376	26.416
130.0	3.692	11.596	49.972	72.332	60.008	31.564	8.372
132.5	4.004	11.804	47.424	68.172	55.224	27.924	4.836
135.0	4.784	12.064	45.032	63.648	50.284	23.140	2.392
137.5	5.148	12.636	42.848	58.968	45.760	20.228	0.572
140.0	5.252	13.208	39.832	54.080	41.912	17.992	0.208
142.5	5.200	13.312	36.816	47.580	38.428	15.236	0.260
145.0	5.044	13.260	34.944	43.264	34.164	14.144	0.000
147.5	4.732	13.000	31.668	37.960	30.784	11.752	0.000
150.0	4.368	12.740	27.664	33.696	27.404	9.932	0.000
152.5	4.004	12.428	25.792	29.692	23.972	8.528	0.000
155.0	3.692	11.908	22.152	24.388	20.436	6.708	0.000
157.5	3.380	11.284	18.824	21.372	17.472	5.668	0.000
160.0	3.016	10.452	16.328	17.472	12.844	3.432	0.000
162.5	2.548	9.724	12.220	12.844	10.816	2.756	0.000
165.0	1.456	5.928	10.452	11.492	6.500	0.312	0.000
167.5	0.416	5.356	6.396	6.552	5.876	0.000	0.000
170.0	0.052	1.300	4.576	5.720	0.520	0.000	0.000
172.5	0.000	0.052	0.416	0.260	0.052	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	73.79	N.A.	5.70
0-30	160.19	N.A.	12.30
0-40	275.74	N.A.	21.20
0-60	561.42	N.A.	43.20
0-80	831.92	N.A.	64.00
0-90	935.84	N.A.	72.00
10-90	916.59	N.A.	70.50
20-40	201.95	N.A.	15.50
20-50	340.18	N.A.	26.20
40-70	429.31	N.A.	33.00
60-80	270.49	N.A.	20.80
70-80	126.87	N.A.	9.80
80-90	103.92	N.A.	8.00
90-110	176.12	N.A.	13.60
90-120	258.71	N.A.	19.90
90-130	326.07	N.A.	25.10
90-150	357.10	N.A.	27.50
90-180	363.88	N.A.	28.00
110-180	187.75	N.A.	14.40
0-180	1299.72	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.24
10-20	54.55
20-30	86.40
30-40	115.55
40-50	138.24
50-60	147.44
60-70	143.63
70-80	126.87
80-90	103.92
90-100	91.00
100-110	85.13
110-120	82.59
120-130	67.36
130-140	19.62
140-150	11.41
150-160	5.32
160-170	1.42
170-180	0.04

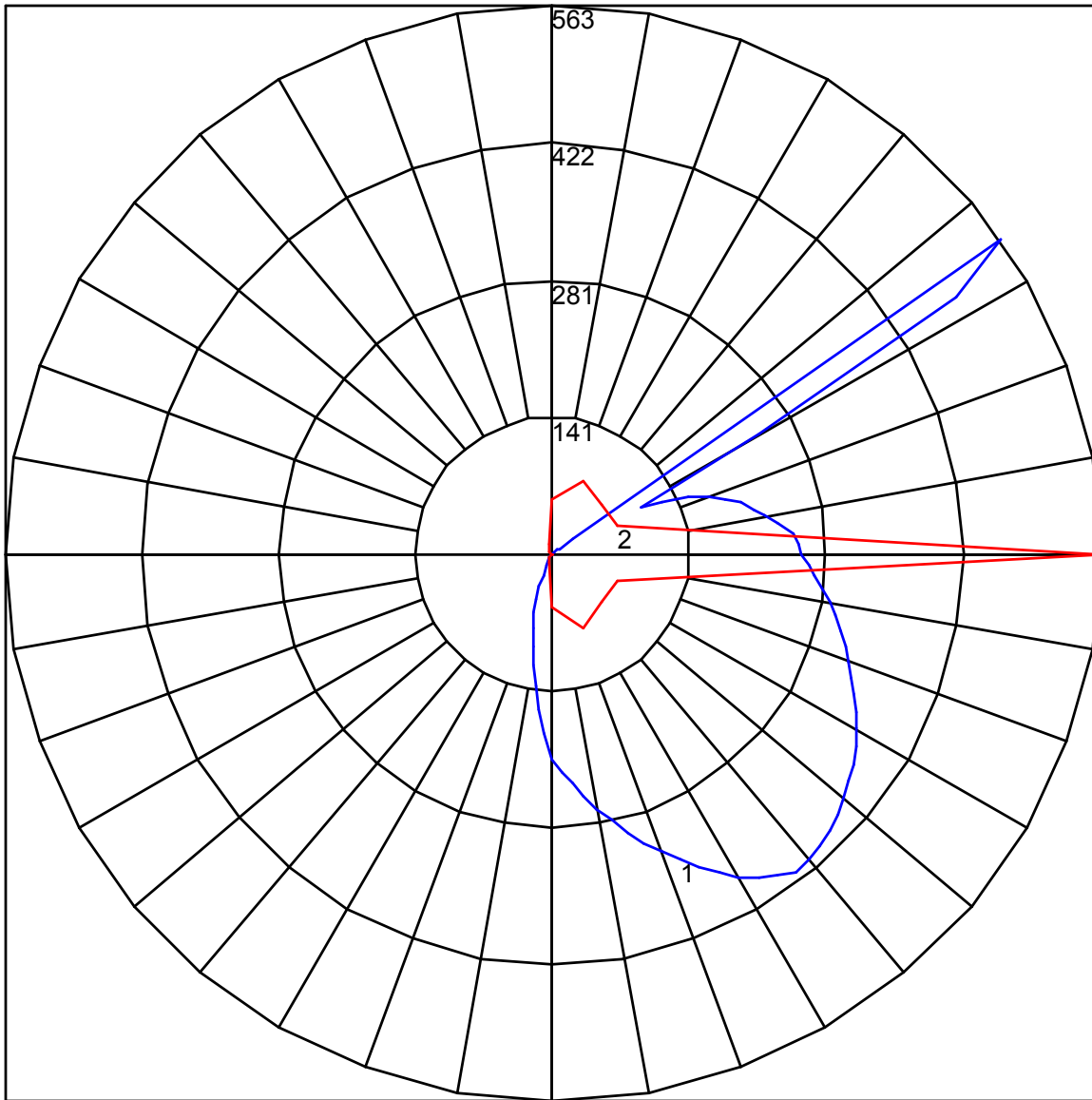
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 562.588 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.)