



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P59-A6-LED3HO-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-LED3HO-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	3049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	49
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	9219	8191	3694
55	10639	9481	3781
65	13108	11289	3890
75	19139	15480	4075
85	50303	38067	5326

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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	498.004	498.004	498.004	498.004	498.004	498.004	498.004	498.004	498.004	498.004
2.5	527.040	525.332	521.550	512.888	506.422	473.604	452.742	437.126	432.490	437.126
5.0	554.002	548.634	534.970	520.574	505.324	449.570	410.286	383.446	375.028	383.446
7.5	589.260	580.842	557.662	525.088	503.616	425.658	369.904	333.304	322.202	333.304
10.0	624.640	613.416	581.940	533.750	501.054	402.112	331.474	286.944	273.158	286.944
12.5	660.630	646.112	605.852	544.364	497.760	378.688	294.874	243.878	227.896	243.878
15.0	696.254	678.320	629.276	554.612	493.612	355.142	260.104	203.984	186.172	203.984
17.5	731.878	710.284	651.846	564.250	488.732	331.596	227.164	166.896	148.230	166.896
20.0	766.526	741.760	673.806	572.790	483.120	308.172	196.542	133.224	114.192	133.224
22.5	800.930	773.236	695.644	580.964	476.410	285.114	167.872	102.968	83.448	102.968
25.0	836.066	804.590	716.750	588.040	469.212	263.032	141.032	75.640	55.632	75.640
27.5	868.396	835.090	737.368	594.262	460.672	241.194	116.266	50.996	31.110	50.996
30.0	898.774	863.394	757.010	599.996	451.766	219.722	93.086	29.280	10.980	29.280
32.5	925.370	888.648	775.920	604.266	441.640	198.860	71.980	11.224	0.000	11.224
35.0	949.404	910.852	792.878	608.170	430.904	178.608	52.704	4.392	0.000	4.392
37.5	966.484	930.494	807.884	611.220	419.436	159.576	36.112	4.392	0.000	4.392
40.0	962.946	941.230	821.304	613.416	406.748	141.276	21.960	4.392	0.000	4.392
42.5	955.748	935.130	832.162	615.124	393.084	123.708	17.690	4.514	0.000	4.514
45.0	945.622	924.760	840.214	615.734	378.932	106.750	17.690	4.514	0.000	4.514
47.5	933.422	912.194	838.750	615.978	364.170	91.256	17.690	4.514	0.000	4.514
50.0	919.026	897.310	825.940	615.490	348.676	76.982	17.568	4.514	0.000	4.514
52.5	902.800	880.474	808.982	613.416	332.084	64.172	17.202	4.392	0.000	4.392
55.0	885.232	862.052	788.852	610.000	314.638	52.338	16.836	4.270	0.000	4.270
57.5	865.346	841.190	766.526	604.876	296.582	42.700	16.226	4.026	0.000	4.026
60.0	845.216	819.352	742.614	597.678	277.672	40.382	15.494	3.538	0.000	3.538
62.5	824.598	797.636	717.848	587.064	258.518	38.308	14.274	3.294	0.000	3.294
65.0	803.614	775.432	692.106	565.226	238.510	35.990	12.932	2.928	0.000	2.928
67.5	782.752	752.862	665.266	538.020	217.770	33.428	11.590	2.562	0.000	2.562
70.0	760.792	729.560	637.206	508.008	196.298	30.622	10.370	2.196	0.000	2.196
72.5	739.808	706.746	609.024	475.190	174.582	27.450	9.028	1.952	0.000	1.952
75.0	718.580	684.298	581.208	440.908	152.988	23.302	7.808	1.708	0.000	1.708
77.5	697.230	662.704	554.246	405.894	132.004	19.276	6.710	1.464	0.000	1.464
80.0	676.734	641.110	529.114	370.758	112.118	15.494	5.734	1.220	0.000	1.220
82.5	655.994	620.126	504.592	335.622	93.086	12.078	5.002	0.976	0.000	0.976
85.0	635.986	599.752	481.290	302.316	67.344	9.516	4.514	0.854	0.000	0.854
87.5	616.832	579.988	459.330	271.572	35.380	8.296	4.148	0.854	0.000	0.854
90.0	598.654	562.176	440.542	247.904	27.084	8.174	4.148	0.854	0.000	0.854
92.5	591.944	555.954	434.564	238.388	56.364	9.394	4.514	0.854	0.000	0.854
95.0	579.988	544.242	418.948	225.334	100.772	10.614	4.880	0.976	0.000	0.976
97.5	550.342	512.766	395.280	217.404	119.438	11.712	5.246	0.976	0.000	0.976
100.0	520.330	488.366	376.126	197.152	131.150	12.566	5.612	1.098	0.000	1.098
102.5	496.784	465.430	353.556	369.416	138.958	13.176	5.856	1.098	0.000	1.098
105.0	469.334	438.102	324.032	548.878	142.984	14.030	6.100	1.220	0.000	1.220
107.5	437.980	406.016	283.040	293.654	145.912	15.128	6.344	1.220	0.000	1.220
110.0	400.892	366.366	236.680	274.378	146.034	16.104	6.466	1.220	0.000	1.220
112.5	353.678	313.418	550.098	257.176	145.424	16.958	6.466	1.220	0.000	1.220
115.0	293.166	248.514	1031.144	241.804	144.936	18.300	6.588	1.220	0.000	1.220
117.5	238.022	460.916	411.506	227.652	143.106	19.642	6.588	1.220	0.000	1.220
120.0	572.668	995.398	201.544	214.476	139.324	22.814	7.076	1.220	0.000	1.220
122.5	1152.168	1250.744	183.488	202.032	133.712	24.766	7.808	1.098	0.000	1.098
125.0	1319.918	170.068	166.774	191.662	129.442	25.864	8.174	1.098	0.000	1.098
127.5	61.976	90.036	151.890	179.462	122.732	26.718	8.418	1.098	0.000	1.098
130.0	19.642	74.054	140.788	169.702	117.242	27.206	8.662	1.098	0.000	1.098
132.5	11.346	65.514	129.564	159.942	111.264	27.694	9.394	0.976	0.000	0.976

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135.0	5.612	54.290	117.974	149.328	105.652	28.304	11.224	0.976	0.000	0.976
137.5	1.342	47.458	107.360	138.348	100.528	29.646	12.078	0.854	0.000	0.854
140.0	0.488	42.212	98.332	126.880	93.452	30.988	12.322	0.854	0.000	0.854
142.5	0.610	35.746	90.158	111.630	86.376	31.232	12.200	0.732	0.000	0.732
145.0	0.000	33.184	80.154	101.504	81.984	31.110	11.834	0.732	0.000	0.732
147.5	0.000	27.572	72.224	89.060	74.298	30.500	11.102	0.610	0.000	0.610
150.0	0.000	23.302	64.294	79.056	64.904	29.890	10.248	0.488	0.000	0.488
152.5	0.000	20.008	56.242	69.662	60.512	29.158	9.394	0.366	0.000	0.366
155.0	0.000	15.738	47.946	57.218	51.972	27.938	8.662	0.244	0.000	0.244
157.5	0.000	13.298	40.992	50.142	44.164	26.474	7.930	0.122	0.000	0.122
160.0	0.000	8.052	30.134	40.992	38.308	24.522	7.076	0.000	0.000	0.000
162.5	0.000	6.466	25.376	30.134	28.670	22.814	5.978	0.000	0.000	0.000
165.0	0.000	0.732	15.250	26.962	24.522	13.908	3.416	0.000	0.000	0.000
167.5	0.000	0.000	13.786	15.372	15.006	12.566	0.976	0.000	0.000	0.000
170.0	0.000	0.000	1.220	13.420	10.736	3.050	0.122	0.000	0.000	0.000
172.5	0.000	0.000	0.122	0.610	0.976	0.122	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	498.004	498.004	498.004	498.004	498.004	498.004	498.004
2.5	452.742	473.604	506.422	512.888	521.550	525.332	527.040
5.0	410.286	449.570	505.324	520.574	534.970	548.634	554.002
7.5	369.904	425.658	503.616	525.088	557.662	580.842	589.260
10.0	331.474	402.112	501.054	533.750	581.940	613.416	624.640
12.5	294.874	378.688	497.760	544.364	605.852	646.112	660.630
15.0	260.104	355.142	493.612	554.612	629.276	678.320	696.254
17.5	227.164	331.596	488.732	564.250	651.846	710.284	731.878
20.0	196.542	308.172	483.120	572.790	673.806	741.760	766.526
22.5	167.872	285.114	476.410	580.964	695.644	773.236	800.930
25.0	141.032	263.032	469.212	588.040	716.750	804.590	836.066
27.5	116.266	241.194	460.672	594.262	737.368	835.090	868.396
30.0	93.086	219.722	451.766	599.996	757.010	863.394	898.774
32.5	71.980	198.860	441.640	604.266	775.920	888.648	925.370
35.0	52.704	178.608	430.904	608.170	792.878	910.852	949.404
37.5	36.112	159.576	419.436	611.220	807.884	930.494	966.484
40.0	21.960	141.276	406.748	613.416	821.304	941.230	962.946
42.5	17.690	123.708	393.084	615.124	832.162	935.130	955.748
45.0	17.690	106.750	378.932	615.734	840.214	924.760	945.622
47.5	17.690	91.256	364.170	615.978	838.750	912.194	933.422
50.0	17.568	76.982	348.676	615.490	825.940	897.310	919.026
52.5	17.202	64.172	332.084	613.416	808.982	880.474	902.800
55.0	16.836	52.338	314.638	610.000	788.852	862.052	885.232
57.5	16.226	42.700	296.582	604.876	766.526	841.190	865.346
60.0	15.494	40.382	277.672	597.678	742.614	819.352	845.216
62.5	14.274	38.308	258.518	587.064	717.848	797.636	824.598
65.0	12.932	35.990	238.510	565.226	692.106	775.432	803.614
67.5	11.590	33.428	217.770	538.020	665.266	752.862	782.752
70.0	10.370	30.622	196.298	508.008	637.206	729.560	760.792
72.5	9.028	27.450	174.582	475.190	609.024	706.746	739.808
75.0	7.808	23.302	152.988	440.908	581.208	684.298	718.580
77.5	6.710	19.276	132.004	405.894	554.246	662.704	697.230
80.0	5.734	15.494	112.118	370.758	529.114	641.110	676.734

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CANDELA TABULATION - (Cont.)

82.5	5.002	12.078	93.086	335.622	504.592	620.126	655.994
85.0	4.514	9.516	67.344	302.316	481.290	599.752	635.986
87.5	4.148	8.296	35.380	271.572	459.330	579.988	616.832
90.0	4.148	8.174	27.084	247.904	440.542	562.176	598.654
92.5	4.514	9.394	56.364	238.388	434.564	555.954	591.944
95.0	4.880	10.614	100.772	225.334	418.948	544.242	579.988
97.5	5.246	11.712	119.438	217.404	395.280	512.766	550.342
100.0	5.612	12.566	131.150	197.152	376.126	488.366	520.330
102.5	5.856	13.176	138.958	369.416	353.556	465.430	496.784
105.0	6.100	14.030	142.984	548.878	324.032	438.102	469.334
107.5	6.344	15.128	145.912	293.654	283.040	406.016	437.980
110.0	6.466	16.104	146.034	274.378	236.680	366.366	400.892
112.5	6.466	16.958	145.424	257.176	550.098	313.418	353.678
115.0	6.588	18.300	144.936	241.804	1031.144	248.514	293.166
117.5	6.588	19.642	143.106	227.652	411.506	460.916	238.022
120.0	7.076	22.814	139.324	214.476	201.544	995.398	572.668
122.5	7.808	24.766	133.712	202.032	183.488	1250.744	1152.168
125.0	8.174	25.864	129.442	191.662	166.774	170.068	1319.918
127.5	8.418	26.718	122.732	179.462	151.890	90.036	61.976
130.0	8.662	27.206	117.242	169.702	140.788	74.054	19.642
132.5	9.394	27.694	111.264	159.942	129.564	65.514	11.346
135.0	11.224	28.304	105.652	149.328	117.974	54.290	5.612
137.5	12.078	29.646	100.528	138.348	107.360	47.458	1.342
140.0	12.322	30.988	93.452	126.880	98.332	42.212	0.488
142.5	12.200	31.232	86.376	111.630	90.158	35.746	0.610
145.0	11.834	31.110	81.984	101.504	80.154	33.184	0.000
147.5	11.102	30.500	74.298	89.060	72.224	27.572	0.000
150.0	10.248	29.890	64.904	79.056	64.294	23.302	0.000
152.5	9.394	29.158	60.512	69.662	56.242	20.008	0.000
155.0	8.662	27.938	51.972	57.218	47.946	15.738	0.000
157.5	7.930	26.474	44.164	50.142	40.992	13.298	0.000
160.0	7.076	24.522	38.308	40.992	30.134	8.052	0.000
162.5	5.978	22.814	28.670	30.134	25.376	6.466	0.000
165.0	3.416	13.908	24.522	26.962	15.250	0.732	0.000
167.5	0.976	12.566	15.006	15.372	13.786	0.000	0.000
170.0	0.122	3.050	10.736	13.420	1.220	0.000	0.000
172.5	0.000	0.122	0.976	0.610	0.122	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	173.12	N.A.	5.70
0-30	375.84	N.A.	12.30
0-40	646.93	N.A.	21.20
0-60	1317.18	N.A.	43.20
0-80	1951.8	N.A.	64.00
0-90	2195.62	N.A.	72.00
10-90	2150.47	N.A.	70.50
20-40	473.80	N.A.	15.50
20-50	798.13	N.A.	26.20
40-70	1007.22	N.A.	33.00
60-80	634.62	N.A.	20.80
70-80	297.65	N.A.	9.80
80-90	243.82	N.A.	8.00
90-110	413.21	N.A.	13.60
90-120	606.98	N.A.	19.90
90-130	765.02	N.A.	25.10
90-150	837.82	N.A.	27.50
90-180	853.71	N.A.	28.00
110-180	440.50	N.A.	14.40
0-180	3049.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.15
10-20	127.98
20-30	202.71
30-40	271.09
40-50	324.32
50-60	345.93
60-70	336.97
70-80	297.65
80-90	243.82
90-100	213.49
100-110	199.72
110-120	193.77
120-130	158.04
130-140	46.04
140-150	26.76
150-160	12.49
160-170	3.33
170-180	0.08

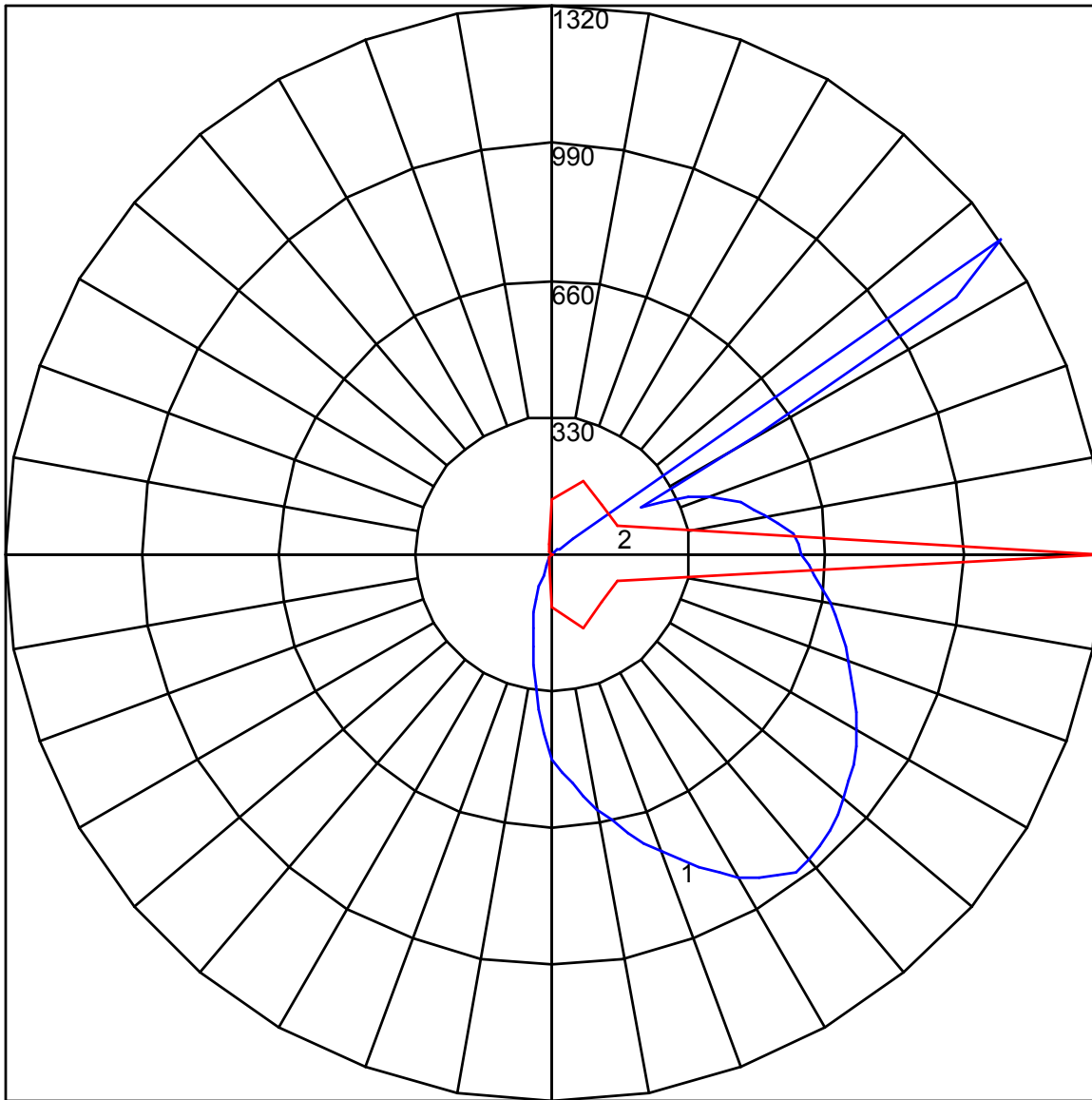
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1319.918 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.)