

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CY0608LEDGV-27L35K-EX-XX-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Jul 24 2017

[UPDATE] Apr 10 2018

[TEST] SP-00595

[MANUFAC] Spectrum Lighting

[LUMCAT] CY0608LEDGV-27L-35K-EX-xx-MW

[LUMINAIRE] 6" Diam. x 8" H, LED cylinder pendant, white opal acrylic

[OTHER] Open aperture

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] 42 Degree Beam Angle

[OTHER] Total Luminaire Wattage is approximate

[OTHER] CCT: 3500K

[OTHER] CCT Output Multipliers: 40K X 1.03, 30K X 0.985, 27K X 0.971

[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.75 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5940	5967	6060
55	4372	4263	4148
65	3616	3688	3641
75	3175	3198	3276
85	2971	3069	3076

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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	946.48	946.48	946.48	946.48	946.48	946.48	946.48	946.48	946.48	946.48
5	942.68	963.91	960.92	962.62	939.20	962.62	960.92	963.91	942.68	963.91
10	941.29	961.65	940.41	958.80	948.44	958.80	940.41	961.65	941.29	961.65
15	974.79	974.16	974.79	982.87	965.29	982.87	974.79	974.16	974.79	974.16
20	827.53	815.32	823.25	819.76	821.00	819.76	823.25	815.32	827.53	815.32
25	430.32	444.14	438.69	434.85	428.47	434.85	438.69	444.14	430.32	444.14
30	282.57	272.16	276.29	274.66	274.17	274.66	276.29	272.16	282.57	272.16
35	258.11	253.58	261.73	258.82	267.94	258.82	261.73	253.58	258.11	253.58
40	239.75	245.26	243.64	252.16	243.67	252.16	243.64	245.26	239.75	245.26
45	223.15	219.31	224.17	226.99	227.68	226.99	224.17	219.31	223.15	219.31
50	192.40	193.56	191.33	192.18	193.28	192.18	191.33	193.56	192.40	193.56
55	170.68	161.98	166.41	163.41	161.92	163.41	166.41	161.98	170.68	161.98
60	151.74	150.87	155.61	151.31	152.42	151.31	155.61	150.87	151.74	150.87
65	142.18	146.05	145.03	140.43	143.18	140.43	145.03	146.05	142.18	146.05
70	134.29	128.95	132.26	132.87	131.43	132.87	132.26	128.95	134.29	128.95
75	121.95	125.03	122.82	126.77	125.83	126.77	122.82	125.03	121.95	125.03
80	116.59	116.58	118.59	116.85	119.05	116.85	118.59	116.58	116.59	116.58
85	107.93	110.02	111.50	109.90	111.76	109.90	111.50	110.02	107.93	110.02
90	103.41	103.21	107.01	105.96	107.53	105.96	107.01	103.21	103.41	103.21
95	105.60	106.34	107.91	106.35	107.09	106.35	107.91	106.34	105.60	106.34
100	105.73	102.52	108.63	104.28	105.26	104.28	108.63	102.52	105.73	102.52
105	106.68	101.52	101.44	102.03	100.93	102.03	101.44	101.52	106.68	101.52
110	101.57	101.44	98.59	101.04	95.67	101.04	98.59	101.44	101.57	101.44
115	98.56	95.47	96.25	97.46	99.36	97.46	96.25	95.47	98.56	95.47
120	89.84	94.87	91.63	89.90	91.49	89.90	91.63	94.87	89.84	94.87
125	86.05	84.34	85.04	84.46	89.38	84.46	85.04	84.34	86.05	84.34
130	80.41	80.69	80.19	79.80	78.30	79.80	80.19	80.69	80.41	80.69
135	73.84	72.31	70.14	69.67	75.44	69.67	70.14	72.31	73.84	72.31
140	67.16	66.01	64.84	69.10	63.76	69.10	64.84	66.01	67.16	66.01
145	51.90	57.29	60.70	55.45	59.32	55.45	60.70	57.29	51.90	57.29
150	49.65	48.53	49.22	44.36	46.63	44.36	49.22	48.53	49.65	48.53
155	38.18	37.71	38.62	41.91	39.94	41.91	38.62	37.71	38.18	37.71
160	28.25	29.67	31.26	26.57	30.35	26.57	31.26	29.67	28.25	29.67
165	18.14	18.68	20.96	20.32	16.35	20.32	20.96	18.68	18.14	18.68
170	11.43	11.75	9.73	10.46	11.79	10.46	9.73	11.75	11.43	11.75
175	4.65	5.39	5.91	3.76	5.34	3.76	5.91	5.39	4.65	5.39
180	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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	946.48	946.48	946.48	946.48	946.48	946.48	946.48
5	960.92	962.62	939.20	962.62	960.92	963.91	942.68
10	940.41	958.80	948.44	958.80	940.41	961.65	941.29
15	974.79	982.87	965.29	982.87	974.79	974.16	974.79
20	823.25	819.76	821.00	819.76	823.25	815.32	827.53
25	438.69	434.85	428.47	434.85	438.69	444.14	430.32
30	276.29	274.66	274.17	274.66	276.29	272.16	282.57
35	261.73	258.82	267.94	258.82	261.73	253.58	258.11
40	243.64	252.16	243.67	252.16	243.64	245.26	239.75
45	224.17	226.99	227.68	226.99	224.17	219.31	223.15
50	191.33	192.18	193.28	192.18	191.33	193.56	192.40
55	166.41	163.41	161.92	163.41	166.41	161.98	170.68
60	155.61	151.31	152.42	151.31	155.61	150.87	151.74

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65	145.03	140.43	143.18	140.43	145.03	146.05	142.18
70	132.26	132.87	131.43	132.87	132.26	128.95	134.29
75	122.82	126.77	125.83	126.77	122.82	125.03	121.95
80	118.59	116.85	119.05	116.85	118.59	116.58	116.59
85	111.50	109.90	111.76	109.90	111.50	110.02	107.93
90	107.01	105.96	107.53	105.96	107.01	103.21	103.41
95	107.91	106.35	107.09	106.35	107.91	106.34	105.60
100	108.63	104.28	105.26	104.28	108.63	102.52	105.73
105	101.44	102.03	100.93	102.03	101.44	101.52	106.68
110	98.59	101.04	95.67	101.04	98.59	101.44	101.57
115	96.25	97.46	99.36	97.46	96.25	95.47	98.56
120	91.63	89.90	91.49	89.90	91.63	94.87	89.84
125	85.04	84.46	89.38	84.46	85.04	84.34	86.05
130	80.19	79.80	78.30	79.80	80.19	80.69	80.41
135	70.14	69.67	75.44	69.67	70.14	72.31	73.84
140	64.84	69.10	63.76	69.10	64.84	66.01	67.16
145	60.70	55.45	59.32	55.45	60.70	57.29	51.90
150	49.22	44.36	46.63	44.36	49.22	48.53	49.65
155	38.62	41.91	39.94	41.91	38.62	37.71	38.18
160	31.26	26.57	30.35	26.57	31.26	29.67	28.25
165	20.96	20.32	16.35	20.32	20.96	18.68	18.14
170	9.73	10.46	11.79	10.46	9.73	11.75	11.43
175	5.91	3.76	5.34	3.76	5.91	5.39	4.65
180	2.00	2.00	2.00	2.00	2.00	2.00	2.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	353.36	N.A.	18.00
0-30	575.36	N.A.	29.20
0-40	738.34	N.A.	37.50
0-60	1060.35	N.A.	53.90
0-80	1333.8	N.A.	67.80
0-90	1454.76	N.A.	73.90
10-90	1363.73	N.A.	69.30
20-40	384.99	N.A.	19.60
20-50	556.10	N.A.	28.30
40-70	463.67	N.A.	23.60
60-80	273.45	N.A.	13.90
70-80	131.78	N.A.	6.70
80-90	120.96	N.A.	6.10
90-110	224.02	N.A.	11.40
90-120	319.79	N.A.	16.20
90-130	396.70	N.A.	20.20
90-150	488.97	N.A.	24.80
90-180	513.60	N.A.	26.10
110-180	289.58	N.A.	14.70
0-180	1968.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.03
10-20	262.33
20-30	222.00
30-40	162.98
40-50	171.11
50-60	150.90
60-70	141.67
70-80	131.78
80-90	120.96
90-100	115.68
100-110	108.33
110-120	95.77
120-130	76.91
130-140	56.21
140-150	36.06
150-160	18.18
160-170	5.79
170-180	0.65

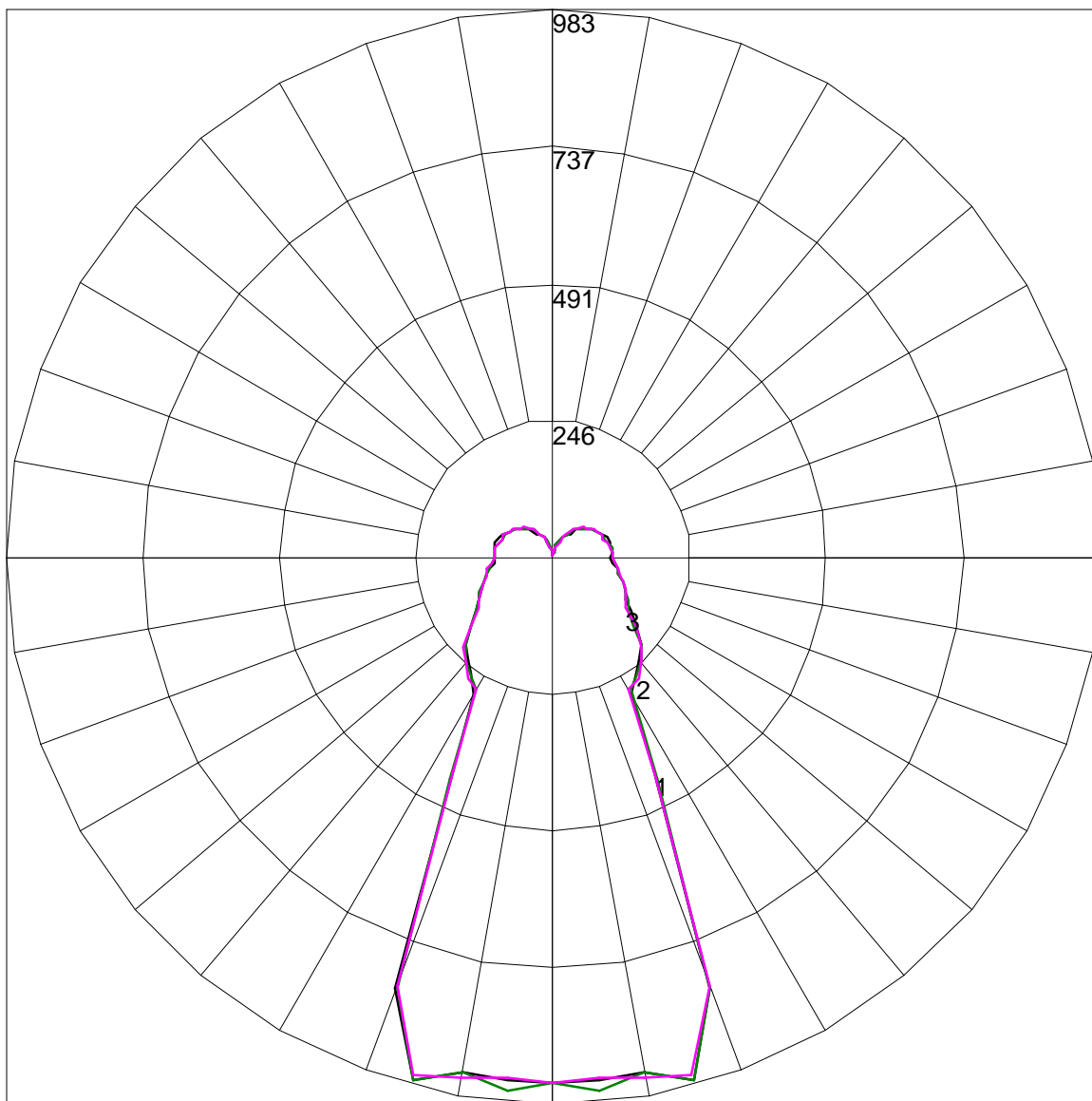
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	102	96	92	87	96	91	87	84	82	79	76	74	72	69	66	65	63	59
2	93	84	78	72	88	80	74	69	73	68	63	65	62	58	59	56	53	50
3	85	75	67	61	80	71	64	59	65	59	54	59	54	50	53	49	46	43
4	79	67	59	53	74	64	57	51	59	52	47	53	48	44	48	44	41	38
5	73	61	53	46	69	58	51	45	53	47	42	49	43	39	44	40	37	34
6	68	56	47	41	64	53	46	40	49	43	38	45	40	36	41	37	33	31
7	63	51	43	37	60	49	42	36	45	39	34	42	36	32	38	34	30	28
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	31	28	26
9	56	44	36	31	53	42	35	30	39	33	29	36	31	27	34	29	26	24
10	53	41	34	29	50	39	33	28	37	31	27	34	29	26	32	27	24	23

POLAR GRAPH



Maximum Candela = 982.87 Located At Horizontal Angle = 67.5, Vertical Angle = 15

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)