

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00656\_2 ~ C0816ADJUXT-20LWDGL-20LWD-XXK-EX-TSG-SO (UP\_DOWN).IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Thu Aug 11 2016

[UPDATE] 4/4/2018

[TEST] SP-00656\_2

[MANUFAC] Spectrum Lighting

[LUMCAT] C0816ADJUXT-20L-WD-GL-20L-WD-xxK-EX-TSG-SO (Up/Down)

[LUMINAIRE] 8" Diam. x 16" H, Direct/Indirect Cylinder, Wall Mounted

[OTHER] Uplight: Wide Beam, Flush Clear Glass lens

[OTHER] Uplight: 60 Degree Beam Angle

[OTHER] Downlight: Wide Beam, Flush Clear Glass lens

[OTHER] Downlight: 57.6 Degree Beam Angle

[OTHER] Trim: Semi-diffuse clear anodized alum.

[LAMP] N/A

[LAMPCAT] N/A, 19mm LES indirect

[OTHER] N/A, 19mm LES direct

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] See Catalog cut sheet for different source lumen multipliers

[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3410
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	43.4
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5396	5428	5415
55	1049	1032	1049
65	122	125	109
75	7	11	9
85	8	8	4

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1709.47	1709.47	1709.47	1709.47	1709.47
<b>2.5</b>	1729.78	1725.63	1726.27	1740.12	1745.25
<b>5.0</b>	1750.09	1741.78	1743.06	1770.76	1781.02
<b>7.5</b>	1763.08	1761.40	1757.33	1774.28	1777.62
<b>10.0</b>	1776.06	1781.01	1771.59	1777.79	1774.21
<b>12.5</b>	1700.75	1707.43	1703.19	1707.94	1702.79
<b>15.0</b>	1625.43	1633.85	1634.79	1638.08	1631.37
<b>17.5</b>	1498.89	1501.71	1505.98	1510.08	1501.65
<b>20.0</b>	1372.35	1369.57	1377.17	1382.08	1371.93
<b>22.5</b>	1234.39	1232.61	1236.71	1241.78	1239.17
<b>25.0</b>	1096.43	1095.64	1096.24	1101.47	1106.40
<b>27.5</b>	974.68	971.58	971.69	974.70	976.19
<b>30.0</b>	852.92	847.52	847.13	847.93	845.98
<b>32.5</b>	737.37	732.97	733.27	733.65	731.59
<b>35.0</b>	621.81	618.41	619.40	619.36	617.20
<b>37.5</b>	492.23	494.06	495.29	493.36	492.91
<b>40.0</b>	362.65	369.70	371.18	367.35	368.61
<b>42.5</b>	235.75	239.02	240.34	239.42	238.93
<b>45.0</b>	108.85	108.34	109.50	111.48	109.24
<b>47.5</b>	70.10	70.10	70.31	71.26	70.41
<b>50.0</b>	31.35	31.85	31.12	31.04	31.58
<b>52.5</b>	24.26	24.47	24.00	24.04	24.37
<b>55.0</b>	17.16	17.09	16.88	17.03	17.16
<b>57.5</b>	12.63	12.63	12.40	12.43	12.58
<b>60.0</b>	8.09	8.17	7.92	7.83	7.99
<b>62.5</b>	4.78	4.81	4.72	4.62	4.66
<b>65.0</b>	1.47	1.44	1.51	1.41	1.32
<b>67.5</b>	0.78	0.78	0.82	0.76	0.78
<b>70.0</b>	0.09	0.11	0.12	0.10	0.23
<b>72.5</b>	0.07	0.10	0.10	0.10	0.15
<b>75.0</b>	0.05	0.08	0.08	0.10	0.07
<b>77.5</b>	0.05	0.07	0.07	0.08	0.05
<b>80.0</b>	0.05	0.05	0.06	0.06	0.03
<b>82.5</b>	0.04	0.04	0.04	0.04	0.02
<b>85.0</b>	0.02	0.03	0.02	0.01	0.01
<b>87.5</b>	0.01	0.02	0.01	0.01	0.01
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00
<b>92.5</b>	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	0.00	0.00	0.00	0.00	0.00
<b>97.5</b>	0.00	0.00	0.00	0.00	0.00
<b>100.0</b>	0.00	0.00	0.00	0.00	0.00
<b>102.5</b>	0.04	0.04	0.03	0.03	0.01
<b>105.0</b>	0.07	0.07	0.06	0.05	0.02
<b>107.5</b>	1.20	1.15	1.20	1.07	1.20
<b>110.0</b>	2.33	2.23	2.34	2.08	2.37
<b>112.5</b>	4.28	4.12	4.07	4.17	4.28
<b>115.0</b>	6.23	6.01	5.80	6.25	6.19
<b>117.5</b>	5.93	6.10	5.97	6.22	6.02
<b>120.0</b>	5.63	6.18	6.13	6.18	5.84
<b>122.5</b>	6.14	6.44	6.32	6.47	6.09
<b>125.0</b>	6.64	6.69	6.50	6.75	6.34

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<b>127.5</b>	33.35	33.29	32.15	33.42	33.01
<b>130.0</b>	60.05	59.89	57.80	60.08	59.68
<b>132.5</b>	165.09	164.30	163.14	164.23	162.58
<b>135.0</b>	270.12	268.71	268.48	268.38	265.48
<b>137.5</b>	376.11	373.27	374.13	373.89	372.40
<b>140.0</b>	482.09	477.83	479.78	479.40	479.32
<b>142.5</b>	557.29	554.91	557.35	556.29	555.96
<b>145.0</b>	632.49	631.99	634.91	633.17	632.60
<b>147.5</b>	706.87	707.89	710.28	709.11	709.92
<b>150.0</b>	781.24	783.78	785.64	785.04	787.23
<b>152.5</b>	888.41	891.53	891.16	892.04	891.77
<b>155.0</b>	995.57	999.27	996.68	999.03	996.30
<b>157.5</b>	1221.32	1225.24	1221.00	1218.75	1220.62
<b>160.0</b>	1447.06	1451.21	1445.31	1438.47	1444.93
<b>162.5</b>	1596.85	1602.49	1599.86	1593.77	1602.42
<b>165.0</b>	1746.63	1753.77	1754.41	1749.06	1759.90
<b>167.5</b>	1877.73	1888.22	1896.68	1893.87	1880.60
<b>170.0</b>	2008.82	2022.67	2038.94	2038.67	2001.29
<b>172.5</b>	1971.23	1978.28	1994.24	1995.27	1968.91
<b>175.0</b>	1933.64	1933.88	1949.54	1951.86	1936.53
<b>177.5</b>	1837.61	1837.73	1845.56	1846.72	1839.06
<b>180.0</b>	1741.00	1741.00	1741.00	1741.00	1741.00

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Zone	Lumens	%Lamp	%Fixt
0-20	617.08	N.A.	18.10
0-30	1121.48	N.A.	32.90
0-40	1501.14	N.A.	44.00
0-60	1633.68	N.A.	47.90
0-80	1636.45	N.A.	48.00
0-90	1636.47	N.A.	48.00
10-90	1468.52	N.A.	43.10
20-40	884.06	N.A.	25.90
20-50	1000.33	N.A.	29.30
40-70	135.22	N.A.	4.00
60-80	2.77	N.A.	0.10
70-80	0.09	N.A.	0.00
80-90	0.03	N.A.	0.00
90-110	0.62	N.A.	0.00
90-120	5.67	N.A.	0.20
90-130	22.85	N.A.	0.70
90-150	620.31	N.A.	18.20
90-180	1773.21	N.A.	52.00
110-180	1772.6	N.A.	52.00
0-180	3409.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.96
10-20	449.12
20-30	504.40
30-40	379.66
40-50	116.27
50-60	16.27
60-70	2.68
70-80	0.09
80-90	0.03
90-100	0.00
100-110	0.62
110-120	5.05
120-130	17.19
130-140	203.80
140-150	393.67
150-160	479.99
160-170	486.04
170-180	186.87

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

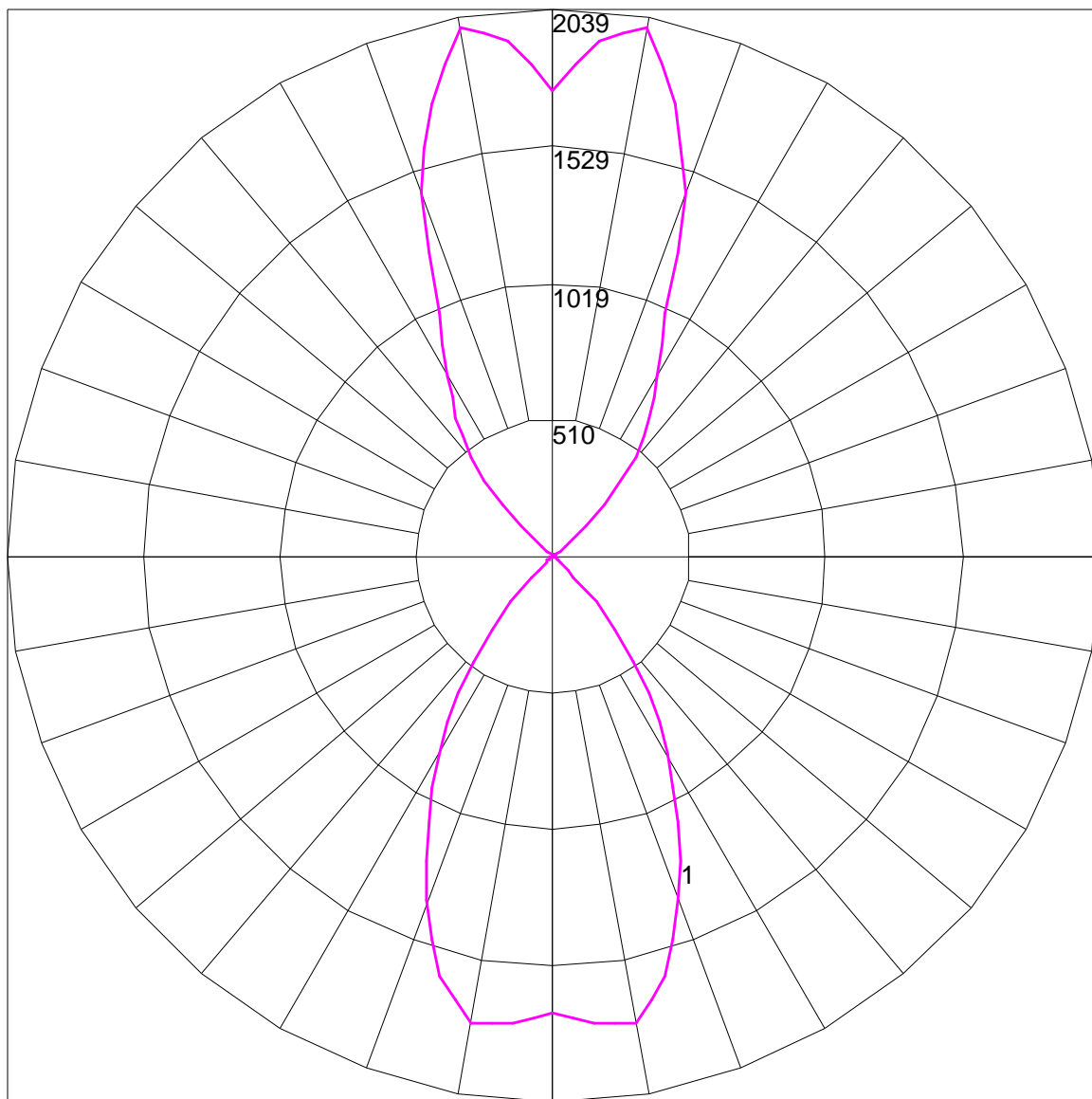
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	100	96	93	90	92	89	86	84	75	74	72	63	62	61	51	51	50	45
2	93	87	82	78	86	81	77	73	69	66	64	58	56	55	48	47	46	42
3	86	79	73	68	80	73	68	64	63	60	57	54	52	50	45	44	43	39
4	81	72	65	61	75	67	62	57	58	54	51	50	47	45	43	41	39	36
5	75	66	59	54	70	62	56	52	54	50	46	47	44	41	40	38	36	33
6	70	60	54	49	65	57	51	47	50	46	42	44	40	38	38	36	34	31
7	66	56	49	44	61	53	47	42	47	42	39	41	38	35	36	33	32	29
8	62	52	45	41	58	49	43	39	43	39	36	38	35	33	34	31	29	27
9	58	48	42	37	55	45	40	36	41	36	33	36	33	30	32	29	28	26
10	55	45	38	34	52	42	37	33	38	34	31	34	31	28	30	28	26	24

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## POLAR GRAPH



Maximum Candela = 2038.94 Located At Horizontal Angle = 45, Vertical Angle = 170  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)