

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00657\_2 ~ C0816ADJUDXT-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)

[ISSUE DATE]

[TEST DATE] Thu Aug 11 2016

[UPDATE] 4/5/2018

[TEST] SP-00657\_2

[MANUFAC] Spectrum Lighting

[LUMCAT] C0816ADJUDXT-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	3370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	4671	4702	4654
55	1403	1403	1413
65	782	790	797
75	456	489	535
85	24	12	16

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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>	1916.86	1916.86	1916.86	1916.86	1916.86
<b>2.5</b>	1907.16	1919.50	1918.88	1924.56	1914.74
<b>5.0</b>	1897.45	1922.14	1920.90	1932.25	1912.62
<b>7.5</b>	1901.57	1918.84	1916.22	1913.03	1912.06
<b>10.0</b>	1905.68	1915.53	1911.54	1893.80	1911.49
<b>12.5</b>	1812.59	1821.83	1819.91	1813.94	1816.39
<b>15.0</b>	1719.50	1728.13	1728.27	1734.07	1721.29
<b>17.5</b>	1562.90	1569.73	1569.88	1573.52	1566.56
<b>20.0</b>	1406.29	1411.33	1411.48	1412.97	1411.82
<b>22.5</b>	1235.80	1240.07	1242.27	1241.59	1240.68
<b>25.0</b>	1065.31	1068.80	1073.05	1070.21	1069.53
<b>27.5</b>	921.62	923.06	925.00	923.71	922.48
<b>30.0</b>	777.92	777.32	776.95	777.21	775.43
<b>32.5</b>	649.31	648.28	647.06	650.51	645.76
<b>35.0</b>	520.70	519.24	517.17	523.80	516.08
<b>37.5</b>	391.38	390.97	390.56	393.72	390.55
<b>40.0</b>	262.06	262.70	263.95	263.63	265.01
<b>42.5</b>	178.15	178.86	179.41	179.55	179.45
<b>45.0</b>	94.23	95.01	94.86	95.46	93.89
<b>47.5</b>	66.27	67.60	67.78	66.96	66.85
<b>50.0</b>	38.31	40.18	40.69	38.45	39.80
<b>52.5</b>	30.63	31.63	31.83	30.70	31.46
<b>55.0</b>	22.95	23.07	22.96	22.94	23.12
<b>57.5</b>	18.86	19.01	19.02	18.80	19.36
<b>60.0</b>	14.76	14.95	15.08	14.65	15.59
<b>62.5</b>	12.10	12.19	12.30	12.21	12.60
<b>65.0</b>	9.43	9.43	9.52	9.77	9.61
<b>67.5</b>	7.81	7.64	7.90	7.95	7.90
<b>70.0</b>	6.18	5.84	6.27	6.13	6.19
<b>72.5</b>	4.78	4.81	4.94	5.00	5.07
<b>75.0</b>	3.37	3.77	3.61	3.87	3.95
<b>77.5</b>	1.77	1.96	1.87	2.03	2.04
<b>80.0</b>	0.16	0.15	0.12	0.18	0.12
<b>82.5</b>	0.11	0.10	0.08	0.11	0.08
<b>85.0</b>	0.06	0.04	0.03	0.03	0.04
<b>87.5</b>	0.04	0.03	0.02	0.03	0.04
<b>90.0</b>	0.02	0.01	0.01	0.03	0.04
<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	655.66	N.A.	19.50
0-30	1147.88	N.A.	34.10
0-40	1468.23	N.A.	43.60
0-60	1583.6	N.A.	47.00
0-80	1597.12	N.A.	47.40
0-90	1597.19	N.A.	47.40
10-90	1414.43	N.A.	42.00
20-40	812.57	N.A.	24.10
20-50	905.60	N.A.	26.90
40-70	125.29	N.A.	3.70
60-80	13.52	N.A.	0.40
70-80	3.60	N.A.	0.10
80-90	0.07	N.A.	0.00
90-110	0.62	N.A.	0.00
90-120	5.67	N.A.	0.20
90-130	22.86	N.A.	0.70
90-150	620.32	N.A.	18.40
90-180	1773.22	N.A.	52.60
110-180	1772.6	N.A.	52.60
0-180	3370.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	182.76
10-20	472.90
20-30	492.23
30-40	320.35
40-50	93.03
50-60	22.34
60-70	9.92
70-80	3.60
80-90	0.07
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

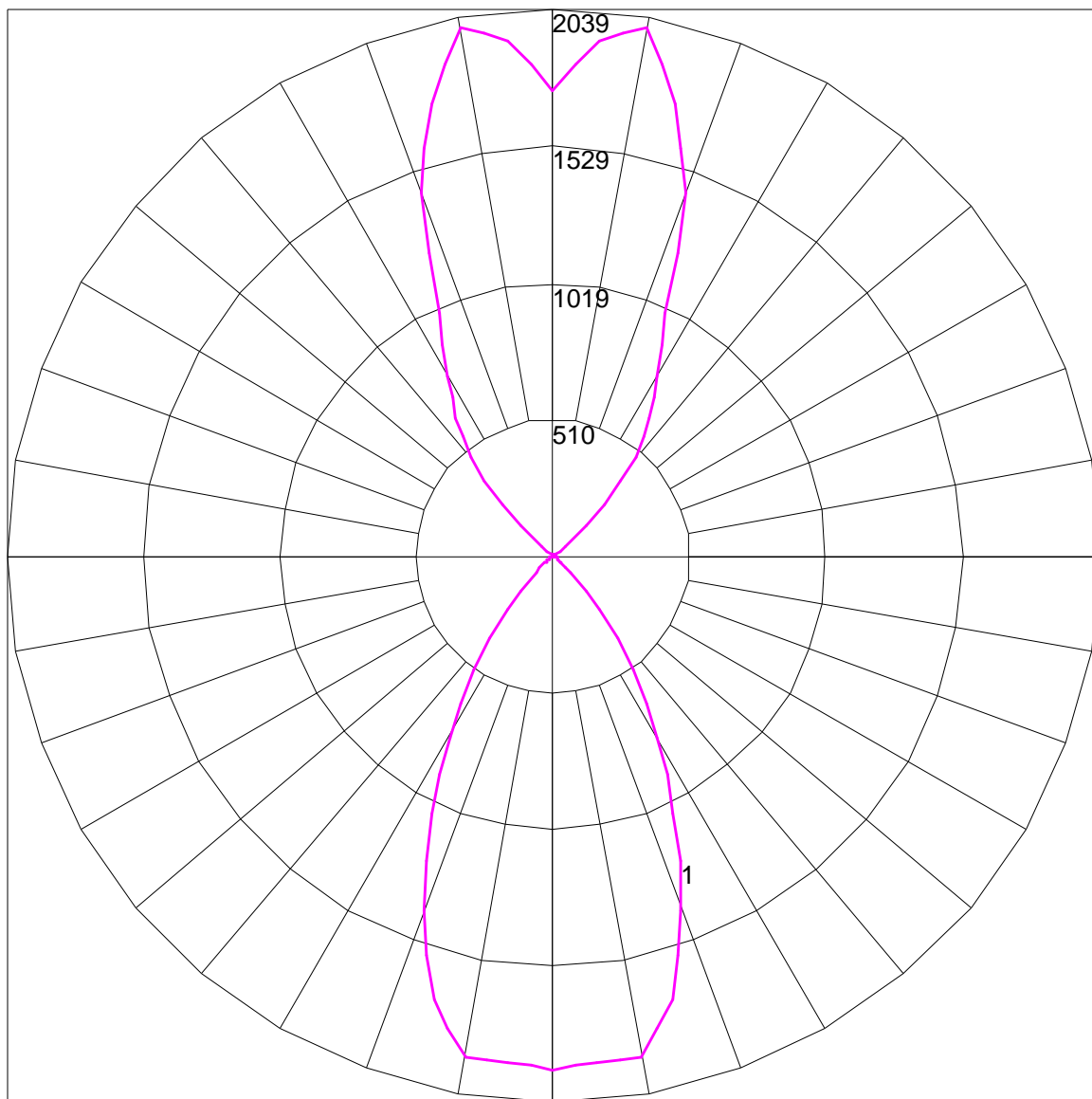
Effective Floor Cavity Reflectance 0.20

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	67	67	67	54	54	54	47
1	99	96	93	90	92	89	86	84	75	73	72	62	61	60	51	50	50	44
2	93	87	82	78	85	81	76	73	69	66	63	58	56	54	48	47	46	41
3	86	79	73	68	80	73	68	64	63	60	57	54	51	49	45	44	42	38
4	81	72	66	61	75	67	62	57	58	54	51	50	47	45	42	41	39	36
5	75	66	59	54	70	62	56	52	54	50	47	47	44	41	40	38	36	33
6	71	61	54	49	66	57	51	47	50	46	43	44	41	38	38	36	34	31
7	66	56	49	45	62	53	47	43	47	42	39	41	38	35	36	33	32	29
8	62	52	45	41	58	49	43	39	44	39	36	39	35	33	34	31	30	28
9	59	48	42	38	55	46	40	36	41	37	33	36	33	31	32	30	28	26
10	55	45	39	35	52	43	37	34	38	34	31	34	31	29	30	28	26	25

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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)