

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00494\_6  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 10/5/2018  
 [UPDATE] 10/22/2018  
 [LUMCAT] CY0405DXT-13L-35K-EX-FA-CY6  
 [LUMINAIRE] Hoboken Pendant (Decorative)  
 [OTHER] 4" diam x 6" long frosted acrylic tube / .25" thick  
 [OTHER] Beam Angle (down): 30.7 deg  
 [OTHER] 0 to 90 deg lumen output: 87.3%  
 [OTHER] 90 to 180 deg lumen output: 12.7%  
 [LAMPCAT] N/A, 83 CRI  
 [LAMP] 19mm LES  
 [OTHER] Total luminaire watts is approximate  
 [OTHER] XT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting  
 [\_CRI] 83+  
 [\_CCTMULT] Same for all CCT's  
 [\_LAMPMULT] 10L x 0.742

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.50 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7889	7889	7889
55	7260	7260	7260
65	5505	5505	5505
75	3917	3917	3917
85	2996	2996	2996

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES**

**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>
<b>0.0</b>	469.809	469.809	469.809	469.809	469.809	469.809	469.809	469.809	469.809	469.809
<b>2.5</b>	469.809	469.809	469.809	469.809	469.809	469.809	469.809	469.809	469.809	469.809
<b>5.0</b>	471.227	471.227	471.227	471.227	471.227	471.227	471.227	471.227	471.227	471.227
<b>7.5</b>	472.772	472.772	472.772	472.772	472.772	472.772	472.772	472.772	472.772	472.772
<b>10.0</b>	419.705	419.705	419.705	419.705	419.705	419.705	419.705	419.705	419.705	419.705
<b>12.5</b>	363.762	363.762	363.762	363.762	363.762	363.762	363.762	363.762	363.762	363.762
<b>15.0</b>	251.227	251.227	251.227	251.227	251.227	251.227	251.227	251.227	251.227	251.227
<b>17.5</b>	145.303	145.303	145.303	145.303	145.303	145.303	145.303	145.303	145.303	145.303
<b>20.0</b>	128.767	128.767	128.767	128.767	128.767	128.767	128.767	128.767	128.767	128.767
<b>22.5</b>	114.099	114.099	114.099	114.099	114.099	114.099	114.099	114.099	114.099	114.099
<b>25.0</b>	113.425	113.425	113.425	113.425	113.425	113.425	113.425	113.425	113.425	113.425
<b>27.5</b>	113.689	113.689	113.689	113.689	113.689	113.689	113.689	113.689	113.689	113.689
<b>30.0</b>	118.586	118.586	118.586	118.586	118.586	118.586	118.586	118.586	118.586	118.586
<b>32.5</b>	122.604	122.604	122.604	122.604	122.604	122.604	122.604	122.604	122.604	122.604
<b>35.0</b>	123.503	123.503	123.503	123.503	123.503	123.503	123.503	123.503	123.503	123.503
<b>37.5</b>	124.557	124.557	124.557	124.557	124.557	124.557	124.557	124.557	124.557	124.557
<b>40.0</b>	126.034	126.034	126.034	126.034	126.034	126.034	126.034	126.034	126.034	126.034
<b>42.5</b>	127.745	127.745	127.745	127.745	127.745	127.745	127.745	127.745	127.745	127.745
<b>45.0</b>	129.953	129.953	129.953	129.953	129.953	129.953	129.953	129.953	129.953	129.953
<b>47.5</b>	131.272	131.272	131.272	131.272	131.272	131.272	131.272	131.272	131.272	131.272
<b>50.0</b>	131.068	131.068	131.068	131.068	131.068	131.068	131.068	131.068	131.068	131.068
<b>52.5</b>	129.005	129.005	129.005	129.005	129.005	129.005	129.005	129.005	129.005	129.005
<b>55.0</b>	124.365	124.365	124.365	124.365	124.365	124.365	124.365	124.365	124.365	124.365
<b>57.5</b>	118.649	118.649	118.649	118.649	118.649	118.649	118.649	118.649	118.649	118.649
<b>60.0</b>	111.721	111.721	111.721	111.721	111.721	111.721	111.721	111.721	111.721	111.721
<b>62.5</b>	103.832	103.832	103.832	103.832	103.832	103.832	103.832	103.832	103.832	103.832
<b>65.0</b>	95.055	95.055	95.055	95.055	95.055	95.055	95.055	95.055	95.055	95.055
<b>67.5</b>	86.951	86.951	86.951	86.951	86.951	86.951	86.951	86.951	86.951	86.951
<b>70.0</b>	79.355	79.355	79.355	79.355	79.355	79.355	79.355	79.355	79.355	79.355
<b>72.5</b>	72.507	72.507	72.507	72.507	72.507	72.507	72.507	72.507	72.507	72.507
<b>75.0</b>	66.117	66.117	66.117	66.117	66.117	66.117	66.117	66.117	66.117	66.117
<b>77.5</b>	60.846	60.846	60.846	60.846	60.846	60.846	60.846	60.846	60.846	60.846
<b>80.0</b>	56.123	56.123	56.123	56.123	56.123	56.123	56.123	56.123	56.123	56.123
<b>82.5</b>	51.900	51.900	51.900	51.900	51.900	51.900	51.900	51.900	51.900	51.900
<b>85.0</b>	47.870	47.870	47.870	47.870	47.870	47.870	47.870	47.870	47.870	47.870
<b>87.5</b>	44.389	44.389	44.389	44.389	44.389	44.389	44.389	44.389	44.389	44.389
<b>90.0</b>	41.071	41.071	41.071	41.071	41.071	41.071	41.071	41.071	41.071	41.071
<b>92.5</b>	38.211	38.211	38.211	38.211	38.211	38.211	38.211	38.211	38.211	38.211
<b>95.0</b>	35.450	35.450	35.450	35.450	35.450	35.450	35.450	35.450	35.450	35.450
<b>97.5</b>	33.120	33.120	33.120	33.120	33.120	33.120	33.120	33.120	33.120	33.120
<b>100.0</b>	30.853	30.853	30.853	30.853	30.853	30.853	30.853	30.853	30.853	30.853
<b>102.5</b>	28.868	28.868	28.868	28.868	28.868	28.868	28.868	28.868	28.868	28.868
<b>105.0</b>	26.906	26.906	26.906	26.906	26.906	26.906	26.906	26.906	26.906	26.906
<b>107.5</b>	25.207	25.207	25.207	25.207	25.207	25.207	25.207	25.207	25.207	25.207
<b>110.0</b>	23.499	23.499	23.499	23.499	23.499	23.499	23.499	23.499	23.499	23.499
<b>112.5</b>	21.128	21.128	21.128	21.128	21.128	21.128	21.128	21.128	21.128	21.128
<b>115.0</b>	18.681	18.681	18.681	18.681	18.681	18.681	18.681	18.681	18.681	18.681
<b>117.5</b>	15.257	15.257	15.257	15.257	15.257	15.257	15.257	15.257	15.257	15.257
<b>120.0</b>	12.009	12.009	12.009	12.009	12.009	12.009	12.009	12.009	12.009	12.009
<b>122.5</b>	10.004	10.004	10.004	10.004	10.004	10.004	10.004	10.004	10.004	10.004
<b>125.0</b>	8.104	8.104	8.104	8.104	8.104	8.104	8.104	8.104	8.104	8.104

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES**

**CANDELA TABULATION - (Cont.)**

127.5	6.702	6.702	6.702	6.702	6.702	6.702	6.702	6.702	6.702	6.702
130.0	5.343	5.343	5.343	5.343	5.343	5.343	5.343	5.343	5.343	5.343
132.5	4.134	4.134	4.134	4.134	4.134	4.134	4.134	4.134	4.134	4.134
135.0	3.096	3.096	3.096	3.096	3.096	3.096	3.096	3.096	3.096	3.096
137.5	2.518	2.518	2.518	2.518	2.518	2.518	2.518	2.518	2.518	2.518
140.0	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974
142.5	1.501	1.501	1.501	1.501	1.501	1.501	1.501	1.501	1.501	1.501
145.0	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208
147.5	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
150.0	1.150	1.150	1.150	1.150	1.150	1.150	1.150	1.150	1.150	1.150
152.5	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992
155.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896
157.5	0.868	0.868	0.868	0.868	0.868	0.868	0.868	0.868	0.868	0.868
160.0	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
162.5	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939	0.939
165.0	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057
167.5	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943
170.0	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962
172.5	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992
175.0	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022
177.5	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
180.0	0.967	0.967	0.967	0.967	0.967	0.967	0.967	0.967	0.967	0.967

**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>
0.0	469.809	469.809	469.809	469.809	469.809	469.809	469.809
2.5	469.809	469.809	469.809	469.809	469.809	469.809	469.809
5.0	471.227	471.227	471.227	471.227	471.227	471.227	471.227
7.5	472.772	472.772	472.772	472.772	472.772	472.772	472.772
10.0	419.705	419.705	419.705	419.705	419.705	419.705	419.705
12.5	363.762	363.762	363.762	363.762	363.762	363.762	363.762
15.0	251.227	251.227	251.227	251.227	251.227	251.227	251.227
17.5	145.303	145.303	145.303	145.303	145.303	145.303	145.303
20.0	128.767	128.767	128.767	128.767	128.767	128.767	128.767
22.5	114.099	114.099	114.099	114.099	114.099	114.099	114.099
25.0	113.425	113.425	113.425	113.425	113.425	113.425	113.425
27.5	113.689	113.689	113.689	113.689	113.689	113.689	113.689
30.0	118.586	118.586	118.586	118.586	118.586	118.586	118.586
32.5	122.604	122.604	122.604	122.604	122.604	122.604	122.604
35.0	123.503	123.503	123.503	123.503	123.503	123.503	123.503
37.5	124.557	124.557	124.557	124.557	124.557	124.557	124.557
40.0	126.034	126.034	126.034	126.034	126.034	126.034	126.034
42.5	127.745	127.745	127.745	127.745	127.745	127.745	127.745
45.0	129.953	129.953	129.953	129.953	129.953	129.953	129.953
47.5	131.272	131.272	131.272	131.272	131.272	131.272	131.272
50.0	131.068	131.068	131.068	131.068	131.068	131.068	131.068
52.5	129.005	129.005	129.005	129.005	129.005	129.005	129.005
55.0	124.365	124.365	124.365	124.365	124.365	124.365	124.365
57.5	118.649	118.649	118.649	118.649	118.649	118.649	118.649
60.0	111.721	111.721	111.721	111.721	111.721	111.721	111.721
62.5	103.832	103.832	103.832	103.832	103.832	103.832	103.832
65.0	95.055	95.055	95.055	95.055	95.055	95.055	95.055

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES**

**CANDELA TABULATION - (Cont.)**

67.5	86.951	86.951	86.951	86.951	86.951	86.951	86.951
70.0	79.355	79.355	79.355	79.355	79.355	79.355	79.355
72.5	72.507	72.507	72.507	72.507	72.507	72.507	72.507
75.0	66.117	66.117	66.117	66.117	66.117	66.117	66.117
77.5	60.846	60.846	60.846	60.846	60.846	60.846	60.846
80.0	56.123	56.123	56.123	56.123	56.123	56.123	56.123
82.5	51.900	51.900	51.900	51.900	51.900	51.900	51.900
85.0	47.870	47.870	47.870	47.870	47.870	47.870	47.870
87.5	44.389	44.389	44.389	44.389	44.389	44.389	44.389
90.0	41.071	41.071	41.071	41.071	41.071	41.071	41.071
92.5	38.211	38.211	38.211	38.211	38.211	38.211	38.211
95.0	35.450	35.450	35.450	35.450	35.450	35.450	35.450
97.5	33.120	33.120	33.120	33.120	33.120	33.120	33.120
100.0	30.853	30.853	30.853	30.853	30.853	30.853	30.853
102.5	28.868	28.868	28.868	28.868	28.868	28.868	28.868
105.0	26.906	26.906	26.906	26.906	26.906	26.906	26.906
107.5	25.207	25.207	25.207	25.207	25.207	25.207	25.207
110.0	23.499	23.499	23.499	23.499	23.499	23.499	23.499
112.5	21.128	21.128	21.128	21.128	21.128	21.128	21.128
115.0	18.681	18.681	18.681	18.681	18.681	18.681	18.681
117.5	15.257	15.257	15.257	15.257	15.257	15.257	15.257
120.0	12.009	12.009	12.009	12.009	12.009	12.009	12.009
122.5	10.004	10.004	10.004	10.004	10.004	10.004	10.004
125.0	8.104	8.104	8.104	8.104	8.104	8.104	8.104
127.5	6.702	6.702	6.702	6.702	6.702	6.702	6.702
130.0	5.343	5.343	5.343	5.343	5.343	5.343	5.343
132.5	4.134	4.134	4.134	4.134	4.134	4.134	4.134
135.0	3.096	3.096	3.096	3.096	3.096	3.096	3.096
137.5	2.518	2.518	2.518	2.518	2.518	2.518	2.518
140.0	1.974	1.974	1.974	1.974	1.974	1.974	1.974
142.5	1.501	1.501	1.501	1.501	1.501	1.501	1.501
145.0	1.208	1.208	1.208	1.208	1.208	1.208	1.208
147.5	1.213	1.213	1.213	1.213	1.213	1.213	1.213
150.0	1.150	1.150	1.150	1.150	1.150	1.150	1.150
152.5	0.992	0.992	0.992	0.992	0.992	0.992	0.992
155.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896
157.5	0.868	0.868	0.868	0.868	0.868	0.868	0.868
160.0	0.820	0.820	0.820	0.820	0.820	0.820	0.820
162.5	0.939	0.939	0.939	0.939	0.939	0.939	0.939
165.0	1.057	1.057	1.057	1.057	1.057	1.057	1.057
167.5	0.943	0.943	0.943	0.943	0.943	0.943	0.943
170.0	0.962	0.962	0.962	0.962	0.962	0.962	0.962
172.5	0.992	0.992	0.992	0.992	0.992	0.992	0.992
175.0	1.022	1.022	1.022	1.022	1.022	1.022	1.022
177.5	1.011	1.011	1.011	1.011	1.011	1.011	1.011
180.0	0.967	0.967	0.967	0.967	0.967	0.967	0.967

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	112.21	N.A.	14.60
0-30	165.92	N.A.	21.60
0-40	243.41	N.A.	31.60
0-60	454.17	N.A.	59.00
0-80	619.18	N.A.	80.50
0-90	671.74	N.A.	87.30
10-90	627.80	N.A.	81.60
20-40	131.20	N.A.	17.10
20-50	231.46	N.A.	30.10
40-70	305.19	N.A.	39.70
60-80	165.01	N.A.	21.40
70-80	70.58	N.A.	9.20
80-90	52.56	N.A.	6.80
90-110	67.58	N.A.	8.80
90-120	85.73	N.A.	11.10
90-130	93.29	N.A.	12.10
90-150	96.79	N.A.	12.60
90-180	97.60	N.A.	12.70
110-180	30.01	N.A.	3.90
0-180	769.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.94
10-20	68.27
20-30	53.71
30-40	77.50
40-50	100.26
50-60	110.50
60-70	94.43
70-80	70.58
80-90	52.56
90-100	38.95
100-110	28.63
110-120	18.14
120-130	7.57
130-140	2.63
140-150	0.87
150-160	0.44
160-170	0.27
170-180	0.09

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES

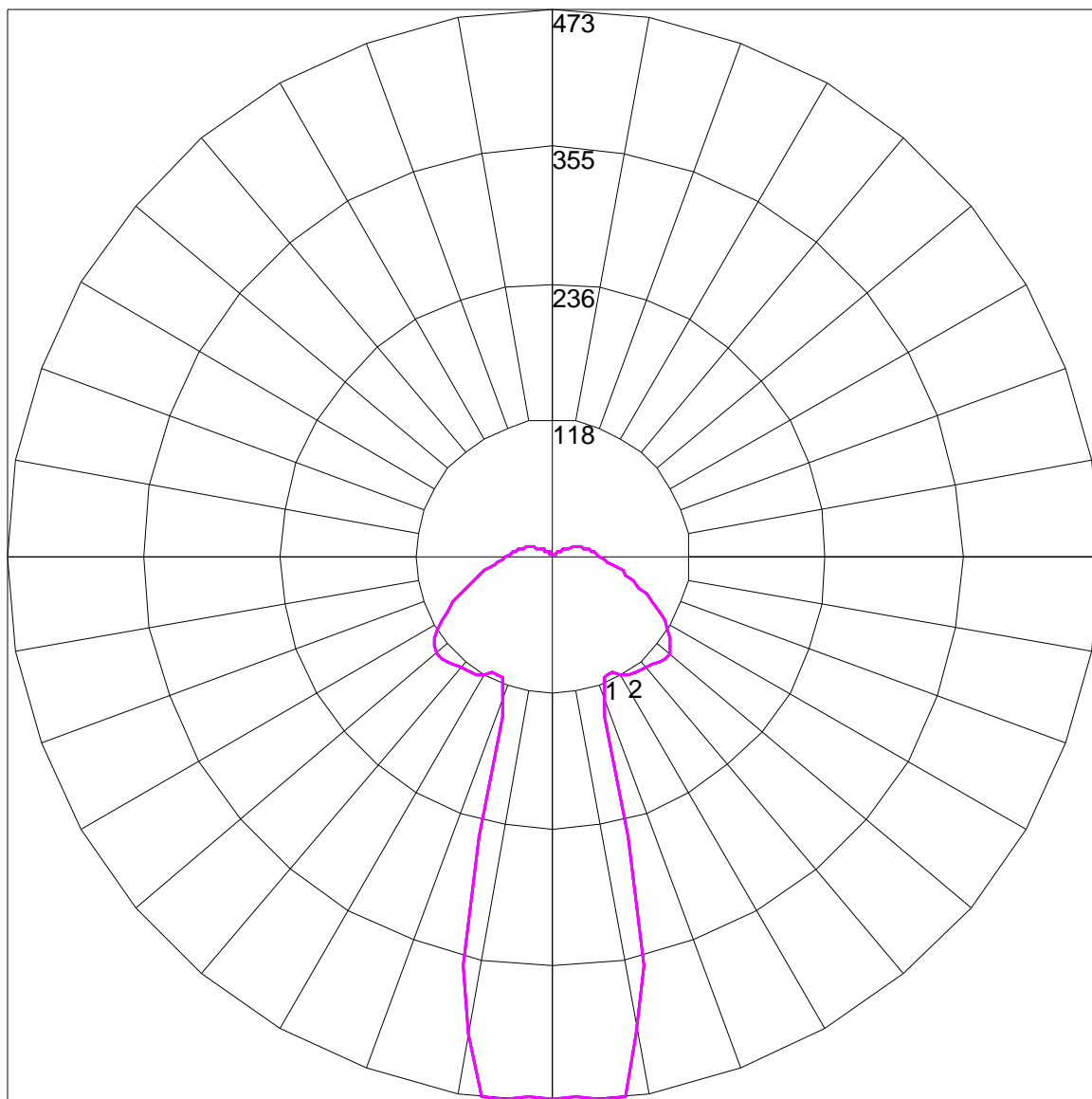
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	103	98	92	88	99	94	89	85	87	84	80	81	78	75	76	73	71	68
2	93	84	76	70	89	81	74	68	75	69	64	70	65	61	65	61	58	55
3	85	73	64	57	81	71	62	56	66	59	53	61	56	51	57	52	48	45
4	77	65	55	48	74	62	54	47	58	51	45	54	48	43	51	46	41	39
5	71	58	48	41	68	56	47	41	52	45	39	49	42	37	46	40	36	33
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	42	36	32	29
7	61	47	38	32	59	46	38	32	43	36	31	41	34	30	38	33	28	26
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	54	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	49	36	29	24	34	28	23	33	27	22	31	26	22	20

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-13L35KEX-FACY6.IES

POLAR GRAPH



Maximum Candela = 472.772 Located At Horizontal Angle = 0, Vertical Angle = 7.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)