

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-FACY6.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00494\_6\_M-10L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 10/5/2018

[UPDATE] 10/22/2018

[LUMCAT] CY0405DXT-10L-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, scaled from 13L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	9.1
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-10L35KEX-FACY6.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5853	5853	5853
55	5387	5387	5387
65	4085	4085	4085
75	2907	2907	2907
85	2223	2223	2223

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-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>	348.598	348.598	348.598	348.598	348.598	348.598	348.598	348.598	348.598	348.598
<b>2.5</b>	348.598	348.598	348.598	348.598	348.598	348.598	348.598	348.598	348.598	348.598
<b>5.0</b>	349.650	349.650	349.650	349.650	349.650	349.650	349.650	349.650	349.650	349.650
<b>7.5</b>	350.797	350.797	350.797	350.797	350.797	350.797	350.797	350.797	350.797	350.797
<b>10.0</b>	311.421	311.421	311.421	311.421	311.421	311.421	311.421	311.421	311.421	311.421
<b>12.5</b>	269.911	269.911	269.911	269.911	269.911	269.911	269.911	269.911	269.911	269.911
<b>15.0</b>	186.410	186.410	186.410	186.410	186.410	186.410	186.410	186.410	186.410	186.410
<b>17.5</b>	107.815	107.815	107.815	107.815	107.815	107.815	107.815	107.815	107.815	107.815
<b>20.0</b>	95.545	95.545	95.545	95.545	95.545	95.545	95.545	95.545	95.545	95.545
<b>22.5</b>	84.661	84.661	84.661	84.661	84.661	84.661	84.661	84.661	84.661	84.661
<b>25.0</b>	84.161	84.161	84.161	84.161	84.161	84.161	84.161	84.161	84.161	84.161
<b>27.5</b>	84.357	84.357	84.357	84.357	84.357	84.357	84.357	84.357	84.357	84.357
<b>30.0</b>	87.991	87.991	87.991	87.991	87.991	87.991	87.991	87.991	87.991	87.991
<b>32.5</b>	90.972	90.972	90.972	90.972	90.972	90.972	90.972	90.972	90.972	90.972
<b>35.0</b>	91.639	91.639	91.639	91.639	91.639	91.639	91.639	91.639	91.639	91.639
<b>37.5</b>	92.421	92.421	92.421	92.421	92.421	92.421	92.421	92.421	92.421	92.421
<b>40.0</b>	93.517	93.517	93.517	93.517	93.517	93.517	93.517	93.517	93.517	93.517
<b>42.5</b>	94.787	94.787	94.787	94.787	94.787	94.787	94.787	94.787	94.787	94.787
<b>45.0</b>	96.425	96.425	96.425	96.425	96.425	96.425	96.425	96.425	96.425	96.425
<b>47.5</b>	97.404	97.404	97.404	97.404	97.404	97.404	97.404	97.404	97.404	97.404
<b>50.0</b>	97.252	97.252	97.252	97.252	97.252	97.252	97.252	97.252	97.252	97.252
<b>52.5</b>	95.722	95.722	95.722	95.722	95.722	95.722	95.722	95.722	95.722	95.722
<b>55.0</b>	92.279	92.279	92.279	92.279	92.279	92.279	92.279	92.279	92.279	92.279
<b>57.5</b>	88.038	88.038	88.038	88.038	88.038	88.038	88.038	88.038	88.038	88.038
<b>60.0</b>	82.897	82.897	82.897	82.897	82.897	82.897	82.897	82.897	82.897	82.897
<b>62.5</b>	77.043	77.043	77.043	77.043	77.043	77.043	77.043	77.043	77.043	77.043
<b>65.0</b>	70.531	70.531	70.531	70.531	70.531	70.531	70.531	70.531	70.531	70.531
<b>67.5</b>	64.518	64.518	64.518	64.518	64.518	64.518	64.518	64.518	64.518	64.518
<b>70.0</b>	58.881	58.881	58.881	58.881	58.881	58.881	58.881	58.881	58.881	58.881
<b>72.5</b>	53.800	53.800	53.800	53.800	53.800	53.800	53.800	53.800	53.800	53.800
<b>75.0</b>	49.059	49.059	49.059	49.059	49.059	49.059	49.059	49.059	49.059	49.059
<b>77.5</b>	45.148	45.148	45.148	45.148	45.148	45.148	45.148	45.148	45.148	45.148
<b>80.0</b>	41.643	41.643	41.643	41.643	41.643	41.643	41.643	41.643	41.643	41.643
<b>82.5</b>	38.510	38.510	38.510	38.510	38.510	38.510	38.510	38.510	38.510	38.510
<b>85.0</b>	35.520	35.520	35.520	35.520	35.520	35.520	35.520	35.520	35.520	35.520
<b>87.5</b>	32.937	32.937	32.937	32.937	32.937	32.937	32.937	32.937	32.937	32.937
<b>90.0</b>	30.475	30.475	30.475	30.475	30.475	30.475	30.475	30.475	30.475	30.475
<b>92.5</b>	28.353	28.353	28.353	28.353	28.353	28.353	28.353	28.353	28.353	28.353
<b>95.0</b>	26.304	26.304	26.304	26.304	26.304	26.304	26.304	26.304	26.304	26.304
<b>97.5</b>	24.575	24.575	24.575	24.575	24.575	24.575	24.575	24.575	24.575	24.575
<b>100.0</b>	22.893	22.893	22.893	22.893	22.893	22.893	22.893	22.893	22.893	22.893
<b>102.5</b>	21.420	21.420	21.420	21.420	21.420	21.420	21.420	21.420	21.420	21.420
<b>105.0</b>	19.964	19.964	19.964	19.964	19.964	19.964	19.964	19.964	19.964	19.964
<b>107.5</b>	18.704	18.704	18.704	18.704	18.704	18.704	18.704	18.704	18.704	18.704
<b>110.0</b>	17.436	17.436	17.436	17.436	17.436	17.436	17.436	17.436	17.436	17.436
<b>112.5</b>	15.677	15.677	15.677	15.677	15.677	15.677	15.677	15.677	15.677	15.677
<b>115.0</b>	13.861	13.861	13.861	13.861	13.861	13.861	13.861	13.861	13.861	13.861
<b>117.5</b>	11.321	11.321	11.321	11.321	11.321	11.321	11.321	11.321	11.321	11.321
<b>120.0</b>	8.911	8.911	8.911	8.911	8.911	8.911	8.911	8.911	8.911	8.911
<b>122.5</b>	7.423	7.423	7.423	7.423	7.423	7.423	7.423	7.423	7.423	7.423
<b>125.0</b>	6.013	6.013	6.013	6.013	6.013	6.013	6.013	6.013	6.013	6.013

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-FACY6.IES**

**CANDELA TABULATION - (Cont.)**

127.5	4.973	4.973	4.973	4.973	4.973	4.973	4.973	4.973	4.973	4.973
130.0	3.965	3.965	3.965	3.965	3.965	3.965	3.965	3.965	3.965	3.965
132.5	3.067	3.067	3.067	3.067	3.067	3.067	3.067	3.067	3.067	3.067
135.0	2.297	2.297	2.297	2.297	2.297	2.297	2.297	2.297	2.297	2.297
137.5	1.868	1.868	1.868	1.868	1.868	1.868	1.868	1.868	1.868	1.868
140.0	1.465	1.465	1.465	1.465	1.465	1.465	1.465	1.465	1.465	1.465
142.5	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
145.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896	0.896
147.5	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
150.0	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853
152.5	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736
155.0	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665	0.665
157.5	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
160.0	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
162.5	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697	0.697
165.0	0.784	0.784	0.784	0.784	0.784	0.784	0.784	0.784	0.784	0.784
167.5	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700
170.0	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714
172.5	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736	0.736
175.0	0.758	0.758	0.758	0.758	0.758	0.758	0.758	0.758	0.758	0.758
177.5	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
180.0	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718

**Vert. 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	348.598	348.598	348.598	348.598	348.598	348.598	348.598
2.5	348.598	348.598	348.598	348.598	348.598	348.598	348.598
5.0	349.650	349.650	349.650	349.650	349.650	349.650	349.650
7.5	350.797	350.797	350.797	350.797	350.797	350.797	350.797
10.0	311.421	311.421	311.421	311.421	311.421	311.421	311.421
12.5	269.911	269.911	269.911	269.911	269.911	269.911	269.911
15.0	186.410	186.410	186.410	186.410	186.410	186.410	186.410
17.5	107.815	107.815	107.815	107.815	107.815	107.815	107.815
20.0	95.545	95.545	95.545	95.545	95.545	95.545	95.545
22.5	84.661	84.661	84.661	84.661	84.661	84.661	84.661
25.0	84.161	84.161	84.161	84.161	84.161	84.161	84.161
27.5	84.357	84.357	84.357	84.357	84.357	84.357	84.357
30.0	87.991	87.991	87.991	87.991	87.991	87.991	87.991
32.5	90.972	90.972	90.972	90.972	90.972	90.972	90.972
35.0	91.639	91.639	91.639	91.639	91.639	91.639	91.639
37.5	92.421	92.421	92.421	92.421	92.421	92.421	92.421
40.0	93.517	93.517	93.517	93.517	93.517	93.517	93.517
42.5	94.787	94.787	94.787	94.787	94.787	94.787	94.787
45.0	96.425	96.425	96.425	96.425	96.425	96.425	96.425
47.5	97.404	97.404	97.404	97.404	97.404	97.404	97.404
50.0	97.252	97.252	97.252	97.252	97.252	97.252	97.252
52.5	95.722	95.722	95.722	95.722	95.722	95.722	95.722
55.0	92.279	92.279	92.279	92.279	92.279	92.279	92.279
57.5	88.038	88.038	88.038	88.038	88.038	88.038	88.038
60.0	82.897	82.897	82.897	82.897	82.897	82.897	82.897
62.5	77.043	77.043	77.043	77.043	77.043	77.043	77.043
65.0	70.531	70.531	70.531	70.531	70.531	70.531	70.531

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-FACY6.IES**

**CANDELA TABULATION - (Cont.)**

67.5	64.518	64.518	64.518	64.518	64.518	64.518	64.518
70.0	58.881	58.881	58.881	58.881	58.881	58.881	58.881
72.5	53.800	53.800	53.800	53.800	53.800	53.800	53.800
75.0	49.059	49.059	49.059	49.059	49.059	49.059	49.059
77.5	45.148	45.148	45.148	45.148	45.148	45.148	45.148
80.0	41.643	41.643	41.643	41.643	41.643	41.643	41.643
82.5	38.510	38.510	38.510	38.510	38.510	38.510	38.510
85.0	35.520	35.520	35.520	35.520	35.520	35.520	35.520
87.5	32.937	32.937	32.937	32.937	32.937	32.937	32.937
90.0	30.475	30.475	30.475	30.475	30.475	30.475	30.475
92.5	28.353	28.353	28.353	28.353	28.353	28.353	28.353
95.0	26.304	26.304	26.304	26.304	26.304	26.304	26.304
97.5	24.575	24.575	24.575	24.575	24.575	24.575	24.575
100.0	22.893	22.893	22.893	22.893	22.893	22.893	22.893
102.5	21.420	21.420	21.420	21.420	21.420	21.420	21.420
105.0	19.964	19.964	19.964	19.964	19.964	19.964	19.964
107.5	18.704	18.704	18.704	18.704	18.704	18.704	18.704
110.0	17.436	17.436	17.436	17.436	17.436	17.436	17.436
112.5	15.677	15.677	15.677	15.677	15.677	15.677	15.677
115.0	13.861	13.861	13.861	13.861	13.861	13.861	13.861
117.5	11.321	11.321	11.321	11.321	11.321	11.321	11.321
120.0	8.911	8.911	8.911	8.911	8.911	8.911	8.911
122.5	7.423	7.423	7.423	7.423	7.423	7.423	7.423
125.0	6.013	6.013	6.013	6.013	6.013	6.013	6.013
127.5	4.973	4.973	4.973	4.973	4.973	4.973	4.973
130.0	3.965	3.965	3.965	3.965	3.965	3.965	3.965
132.5	3.067	3.067	3.067	3.067	3.067	3.067	3.067
135.0	2.297	2.297	2.297	2.297	2.297	2.297	2.297
137.5	1.868	1.868	1.868	1.868	1.868	1.868	1.868
140.0	1.465	1.465	1.465	1.465	1.465	1.465	1.465
142.5	1.114	1.114	1.114	1.114	1.114	1.114	1.114
145.0	0.896	0.896	0.896	0.896	0.896	0.896	0.896
147.5	0.900	0.900	0.900	0.900	0.900	0.900	0.900
150.0	0.853	0.853	0.853	0.853	0.853	0.853	0.853
152.5	0.736	0.736	0.736	0.736	0.736	0.736	0.736
155.0	0.665	0.665	0.665	0.665	0.665	0.665	0.665
157.5	0.644	0.644	0.644	0.644	0.644	0.644	0.644
160.0	0.608	0.608	0.608	0.608	0.608	0.608	0.608
162.5	0.697	0.697	0.697	0.697	0.697	0.697	0.697
165.0	0.784	0.784	0.784	0.784	0.784	0.784	0.784
167.5	0.700	0.700	0.700	0.700	0.700	0.700	0.700
170.0	0.714	0.714	0.714	0.714	0.714	0.714	0.714
172.5	0.736	0.736	0.736	0.736	0.736	0.736	0.736
175.0	0.758	0.758	0.758	0.758	0.758	0.758	0.758
177.5	0.750	0.750	0.750	0.750	0.750	0.750	0.750
180.0	0.718	0.718	0.718	0.718	0.718	0.718	0.718

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-FACY6.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	83.26	N.A.	14.60
0-30	123.11	N.A.	21.60
0-40	180.61	N.A.	31.60
0-60	337.00	N.A.	59.00
0-80	459.43	N.A.	80.50
0-90	498.43	N.A.	87.30
10-90	465.83	N.A.	81.60
20-40	97.35	N.A.	17.10
20-50	171.74	N.A.	30.10
40-70	226.45	N.A.	39.70
60-80	122.44	N.A.	21.40
70-80	52.37	N.A.	9.20
80-90	39.00	N.A.	6.80
90-110	50.15	N.A.	8.80
90-120	63.61	N.A.	11.10
90-130	69.22	N.A.	12.10
90-150	71.82	N.A.	12.60
90-180	72.42	N.A.	12.70
110-180	22.27	N.A.	3.90
0-180	570.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.60
10-20	50.66
20-30	39.85
30-40	57.50
40-50	74.39
50-60	81.99
60-70	70.07
70-80	52.37
80-90	39.00
90-100	28.90
100-110	21.25
110-120	13.46
120-130	5.62
130-140	1.95
140-150	0.65
150-160	0.32
160-170	0.20
170-180	0.07

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-FACY6.IES

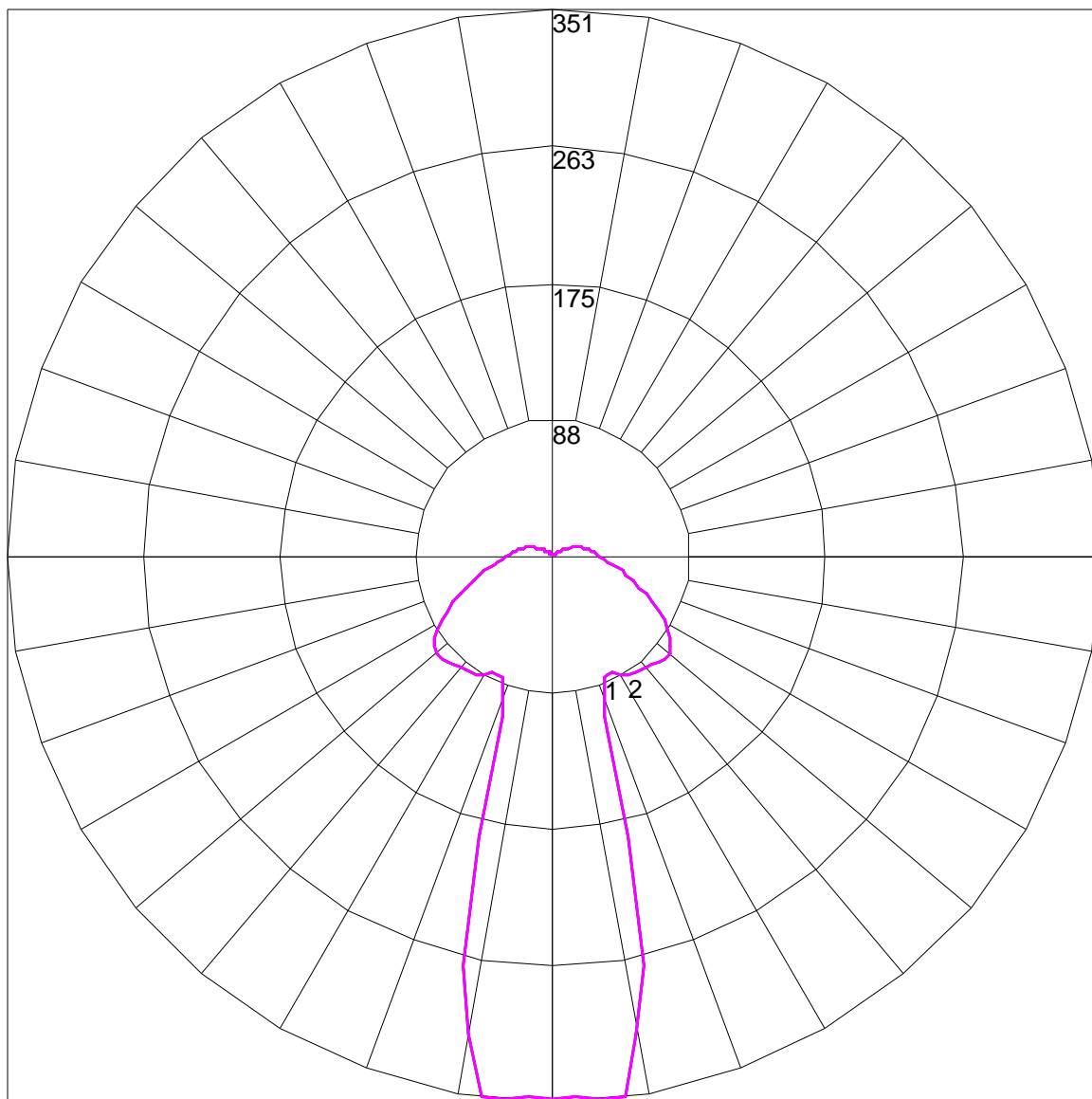
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	92	88	99	94	89	85	87	83	80	81	78	75	75	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	55	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	35	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	48	36	29	24	34	28	23	33	27	22	31	26	22	20

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00494\_6 ~ CY0405DXT-10L35KEX-FACY6.IES

POLAR GRAPH



Maximum Candela = 350.797 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)