



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Standard-Tech Co. Ltd

[TESTDATE] 2016-05-09

[ISSUEDATE] 2016-05-09 15:09:17

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] LumenFocus, LLC

[LUMINAIRE] CPE 12 MD UV PPD 840

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
---------	------------	--------	--------	------	-------

[OTHER]	0- 10	167.03	167.03	3.15	3.15
---------	-------	--------	--------	------	------

[OTHER]	10- 20	489.37	656.41	12.39	12.39
---------	--------	--------	--------	-------	-------

[OTHER]	20- 30	767.60	1424.00	26.88	26.88
---------	--------	--------	---------	-------	-------

[OTHER]	30- 40	920.38	2344.38	44.25	44.25
---------	--------	--------	---------	-------	-------

[OTHER]	40- 50	884.79	3229.17	60.96	60.96
---------	--------	--------	---------	-------	-------

[OTHER]	50- 60	760.30	3989.47	75.31	75.31
---------	--------	--------	---------	-------	-------

[OTHER]	60- 70	617.74	4607.21	86.97	86.97
---------	--------	--------	---------	-------	-------

[OTHER]	70- 80	394.57	5001.78	94.42	94.42
---------	--------	--------	---------	-------	-------

[OTHER]	80- 90	170.28	5172.06	97.63	97.63
---------	--------	--------	---------	-------	-------

[OTHER]	90-100	40.78	5212.83	98.40	98.40
---------	--------	-------	---------	-------	-------

[OTHER]	100-110	37.59	5250.42	99.11	99.11
---------	---------	-------	---------	-------	-------

[OTHER]	110-120	24.85	5275.27	99.58	99.58
---------	---------	-------	---------	-------	-------

[OTHER]	120-130	12.65	5287.92	99.82	99.82
---------	---------	-------	---------	-------	-------

[OTHER]	130-140	5.93	5293.85	99.93	99.93
---------	---------	------	---------	-------	-------

[OTHER]	140-150	1.49	5295.34	99.96	99.96
---------	---------	------	---------	-------	-------

[OTHER]	150-160	1.10	5296.44	99.98	99.98
---------	---------	------	---------	-------	-------

[OTHER]	160-170	0.75	5297.19	99.99	99.99
---------	---------	------	---------	-------	-------

[OTHER]	170-180	0.30	5297.50	100.00	100.00
---------	---------	------	---------	--------	--------

[OTHER]

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5298
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	53.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.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>
0	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11
1	1763.72	1762.60	1761.77	1760.31	1753.46	1751.59	1752.02	1757.07	1760.12	1756.70
2	1752.39	1749.29	1761.82	1765.91	1752.60	1749.22	1753.42	1760.17	1770.13	1772.36
3	1734.36	1734.82	1754.77	1769.01	1759.58	1761.31	1770.55	1756.18	1753.29	1770.01
4	1716.07	1723.56	1753.39	1773.25	1766.36	1779.27	1777.57	1738.03	1728.50	1747.55
5	1713.34	1720.82	1738.71	1767.44	1765.51	1777.08	1760.81	1719.41	1705.51	1715.66
6	1724.32	1729.29	1739.17	1769.37	1786.75	1787.18	1741.88	1711.52	1709.67	1714.73
7	1703.62	1725.69	1739.78	1786.30	1802.99	1810.24	1732.13	1721.79	1719.13	1729.49
8	1682.83	1709.13	1754.71	1775.77	1774.58	1804.25	1742.31	1726.12	1701.21	1727.50
9	1716.29	1714.41	1768.12	1748.94	1759.49	1765.72	1770.91	1710.24	1686.21	1705.62
10	1715.69	1734.76	1756.26	1742.26	1778.41	1751.90	1779.39	1707.82	1713.43	1701.94
11	1704.45	1724.21	1735.58	1766.15	1767.19	1768.16	1750.58	1732.35	1699.49	1731.58
12	1696.04	1713.48	1738.54	1767.58	1734.16	1755.70	1712.61	1725.04	1688.01	1725.51
13	1705.50	1722.75	1748.78	1741.66	1726.17	1733.67	1723.34	1707.52	1698.49	1732.06
14	1717.08	1743.32	1750.02	1724.29	1725.86	1723.42	1755.10	1716.02	1698.20	1748.98
15	1717.78	1752.03	1738.00	1737.26	1722.14	1726.60	1759.14	1742.80	1711.52	1756.76
16	1730.49	1753.06	1733.57	1732.67	1703.03	1721.81	1733.43	1767.87	1717.28	1774.57
17	1739.79	1765.97	1721.00	1703.29	1692.02	1708.99	1702.85	1772.34	1720.04	1761.76
18	1718.48	1773.22	1709.61	1683.96	1702.57	1700.57	1694.33	1764.87	1713.45	1757.40
19	1696.06	1771.48	1714.91	1680.93	1692.73	1707.87	1704.01	1766.92	1695.28	1741.97
20	1691.14	1747.64	1713.84	1682.06	1678.92	1702.45	1709.19	1762.75	1687.32	1745.66
21	1661.34	1750.32	1711.78	1675.57	1690.03	1687.47	1704.30	1742.13	1677.83	1738.33
22	1659.63	1730.56	1701.03	1687.64	1698.23	1677.18	1698.24	1736.65	1655.51	1720.84
23	1635.26	1714.51	1694.84	1698.84	1694.49	1681.90	1687.36	1717.67	1639.49	1695.65
24	1621.21	1688.05	1694.52	1701.34	1678.16	1684.91	1688.12	1699.82	1623.47	1678.07
25	1612.85	1651.48	1698.08	1692.47	1648.38	1672.38	1707.40	1683.06	1607.37	1656.46
26	1598.21	1643.08	1704.46	1660.95	1618.61	1656.57	1717.14	1658.26	1588.38	1634.85
27	1592.42	1623.98	1700.04	1641.04	1588.97	1635.26	1717.37	1633.46	1576.20	1613.39
28	1588.28	1612.36	1664.97	1616.74	1580.64	1613.95	1679.94	1608.80	1567.15	1603.50
29	1584.04	1608.60	1636.83	1587.01	1582.10	1592.77	1646.24	1598.59	1573.42	1585.25
30	1569.31	1593.20	1618.80	1588.38	1565.68	1599.52	1630.26	1594.70	1565.04	1582.43
31	1543.23	1573.26	1606.72	1579.60	1532.82	1579.43	1616.65	1582.10	1542.38	1569.97
32	1534.10	1552.69	1597.89	1542.20	1496.60	1537.53	1603.05	1550.30	1505.78	1542.19
33	1525.78	1535.19	1570.62	1508.98	1479.41	1508.56	1588.94	1518.95	1490.48	1504.83
34	1491.93	1505.20	1543.96	1488.75	1464.18	1483.60	1544.37	1489.31	1477.77	1476.37
35	1444.70	1493.15	1510.31	1471.55	1447.14	1458.76	1504.01	1475.15	1441.98	1463.61
36	1382.56	1470.52	1469.24	1458.25	1420.94	1452.31	1468.76	1469.78	1391.21	1452.65
37	1358.56	1430.38	1453.25	1428.93	1370.28	1428.39	1444.90	1427.59	1337.46	1426.27
38	1326.50	1387.93	1429.17	1389.51	1330.36	1396.55	1415.99	1373.37	1311.41	1378.59
39	1287.41	1340.91	1393.83	1364.25	1289.45	1367.02	1387.68	1334.41	1280.01	1331.14
40	1261.68	1306.12	1356.52	1321.99	1254.65	1319.57	1355.24	1294.68	1259.94	1301.63
41	1229.51	1269.02	1324.33	1281.52	1230.52	1282.62	1316.34	1265.63	1216.84	1276.97
42	1210.73	1234.07	1294.32	1240.81	1199.91	1242.79	1279.21	1232.46	1193.35	1232.51
43	1178.91	1210.12	1257.87	1207.24	1171.22	1212.26	1258.28	1202.29	1167.73	1196.49
44	1133.48	1179.78	1217.13	1176.58	1140.92	1179.96	1224.91	1173.73	1131.13	1174.38
45	1096.37	1139.59	1182.23	1144.94	1092.35	1144.12	1186.12	1140.84	1089.38	1139.64
46	1066.93	1103.34	1147.53	1095.01	1056.91	1098.77	1152.48	1092.61	1052.09	1097.67
47	1028.57	1070.76	1121.89	1058.71	1029.44	1067.98	1122.16	1059.43	1013.59	1057.14
48	1006.06	1038.03	1089.59	1037.25	1002.02	1047.39	1077.67	1024.08	990.06	1023.76
49	986.21	1015.22	1037.78	1012.82	971.38	1018.29	1033.28	1000.31	970.57	1000.11
50	964.15	1002.15	999.05	986.41	953.53	990.87	1001.75	988.03	955.67	985.16
51	915.71	978.22	973.48	974.05	920.26	979.87	973.27	973.58	921.68	971.49
52	864.56	929.83	950.52	947.12	869.57	942.94	943.47	943.01	860.46	948.85
53	832.13	888.22	930.63	893.32	840.31	895.97	923.78	893.00	831.74	903.16

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

54	800.37	855.59	906.13	861.74	814.69	868.22	902.22	854.63	803.93	862.16
55	791.75	842.16	873.17	845.02	801.79	843.23	873.92	824.36	787.46	828.48
56	793.20	828.74	838.29	828.59	802.18	831.15	830.60	812.01	776.19	809.46
57	761.95	836.50	803.39	822.75	759.57	834.44	790.29	808.52	773.90	802.05
58	707.19	796.50	768.49	794.85	706.84	790.48	763.96	796.31	703.03	809.70
59	675.00	743.36	766.74	737.05	695.78	742.56	759.23	732.51	669.91	747.84
60	665.37	716.01	762.79	717.79	681.02	725.23	762.57	706.29	660.73	710.00
61	659.47	711.18	726.58	707.02	680.41	713.59	728.08	695.17	656.20	695.96
62	657.84	704.24	672.34	703.85	662.65	716.78	668.86	687.82	655.36	688.85
63	621.18	698.96	653.59	685.47	633.62	694.91	646.75	688.24	628.69	695.34
64	579.95	657.29	653.98	661.10	602.49	663.21	642.87	653.77	576.62	676.24
65	567.56	626.21	641.46	626.98	573.21	636.61	638.04	612.82	558.68	618.99
66	546.89	609.32	614.76	604.77	574.83	608.50	611.13	593.98	540.49	597.25
67	537.08	599.03	583.48	608.90	542.34	614.44	572.94	581.10	540.33	581.82
68	510.69	576.37	555.66	570.82	536.73	576.69	543.77	564.46	505.90	582.22
69	493.08	562.30	542.87	564.40	517.09	572.48	533.87	542.73	496.06	546.36
70	444.28	525.20	525.19	531.91	469.07	533.28	510.78	518.46	444.03	527.79
71	421.87	481.35	507.05	498.18	465.82	503.21	498.68	468.84	417.12	481.69
72	397.82	465.46	487.01	486.95	426.54	489.76	477.99	452.37	395.51	459.15
73	357.05	426.57	437.63	447.16	404.63	448.17	427.56	415.94	353.44	431.88
74	332.74	394.92	423.31	432.90	380.37	435.09	415.55	385.47	328.74	396.81
75	302.89	365.38	383.19	394.40	349.16	394.24	375.62	355.52	299.58	368.23
76	270.32	329.71	359.67	360.10	319.79	362.69	352.26	324.17	270.61	333.63
77	244.31	300.10	324.12	326.37	292.26	330.17	319.55	297.51	246.73	306.30
78	221.69	272.36	294.66	298.71	265.05	302.22	291.90	271.38	225.16	279.66
79	203.17	248.73	266.23	266.99	236.75	271.13	264.65	247.75	204.82	255.73
80	187.85	227.43	241.48	241.74	214.02	246.37	241.88	226.53	188.68	234.59
81	173.82	210.84	219.92	218.40	191.95	223.32	221.03	209.80	174.26	216.37
82	159.42	194.22	201.65	199.98	175.15	204.82	203.53	193.36	160.06	199.68
83	146.18	179.14	186.71	185.14	161.05	189.56	188.43	177.91	146.44	183.70
84	133.54	164.69	172.99	171.31	146.85	175.18	174.79	163.58	133.95	168.96
85	122.01	151.36	160.53	157.01	129.64	160.11	162.19	150.40	122.52	155.62
86	111.24	139.37	148.76	142.23	115.41	145.38	149.82	138.49	112.05	143.77
87	101.89	128.32	136.79	129.04	104.30	131.98	137.14	127.37	102.97	132.22
88	93.47	117.67	124.47	117.59	96.05	120.07	124.60	116.93	94.52	121.25
89	86.73	107.52	113.48	105.87	88.34	108.02	112.80	106.56	87.82	110.32
90	80.86	97.01	102.80	95.29	82.07	97.42	101.68	94.93	81.82	98.17
91	62.23	71.73	86.68	84.59	75.14	87.02	84.78	68.67	63.85	73.23
92	31.11	36.36	64.49	71.98	67.11	74.32	63.26	34.36	33.28	37.98
93	10.40	8.29	42.17	56.04	56.10	58.65	41.30	8.73	11.79	11.65
94	1.07	1.18	23.93	39.69	42.85	41.75	23.45	1.83	1.07	1.28
95	12.22	16.86	13.63	26.71	30.55	28.18	13.95	18.81	11.02	15.38
96	35.18	35.72	8.78	19.16	22.74	20.07	9.12	38.68	36.81	34.81
97	51.06	51.74	13.09	12.89	16.83	13.28	13.84	53.47	49.50	51.29
98	51.58	46.60	18.33	6.01	11.38	6.51	19.57	47.97	54.68	47.92
99	46.00	41.04	22.77	10.88	7.99	11.21	24.04	42.16	48.45	42.02
100	40.73	35.83	26.13	18.09	15.18	18.54	27.64	36.98	43.13	36.48
101	35.99	31.22	28.35	27.10	24.58	27.91	30.09	32.39	37.73	32.29
102	31.44	27.36	29.49	35.79	35.56	37.40	31.41	28.37	32.73	28.54
103	27.41	24.09	31.18	44.03	46.55	46.67	33.51	24.87	28.38	25.24
104	24.28	21.58	30.50	51.29	58.68	54.32	32.54	21.88	24.74	22.29
105	21.65	19.86	29.26	53.29	64.42	56.32	31.11	19.73	21.65	20.33
106	19.73	18.07	27.42	55.39	66.50	58.35	29.29	18.22	19.29	18.66
107	17.94	16.48	25.75	59.55	67.50	62.53	27.37	16.46	17.72	17.29
108	16.36	14.70	22.63	58.08	71.16	60.63	24.80	15.06	15.70	15.74
109	14.80	13.34	22.34	56.17	71.65	59.34	23.79	13.76	14.67	14.66

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

110	13.92	12.09	22.80	54.34	68.22	57.71	24.14	11.94	13.63	12.99
111	12.66	9.48	21.16	53.36	65.69	56.45	22.62	10.22	12.09	10.88
112	10.39	6.37	19.90	52.73	63.91	55.41	21.08	8.13	10.98	8.47
113	8.35	2.36	18.97	47.87	61.13	51.02	20.11	4.09	9.69	4.32
114	4.10	1.33	17.95	43.97	57.04	46.54	19.09	1.61	6.48	2.18
115	1.35	1.28	17.26	41.41	52.86	43.65	18.18	1.58	2.06	1.72
116	1.34	1.26	16.53	39.71	50.17	41.92	17.30	1.64	1.56	1.61
117	1.31	1.26	15.67	37.92	48.48	39.87	16.50	1.69	1.67	1.67
118	1.31	1.26	14.97	35.42	45.72	37.72	15.75	1.69	1.64	1.67
119	1.28	1.26	14.09	33.16	42.58	35.16	14.90	1.72	1.69	1.67
120	1.28	1.26	13.13	31.39	40.19	32.93	13.88	1.75	1.75	1.69
121	1.28	1.26	12.53	29.90	38.05	31.13	13.19	1.86	1.80	1.72
122	1.28	1.26	11.76	28.58	36.43	29.80	12.56	1.91	1.86	1.83
123	1.28	1.26	10.74	27.31	35.48	28.50	11.44	1.94	1.89	1.86
124	1.28	1.28	9.82	26.42	34.87	27.72	10.46	1.97	1.97	1.94
125	1.31	1.31	9.20	25.69	33.50	26.95	9.63	2.08	2.05	2.00
126	1.34	1.34	8.13	24.91	32.53	26.14	8.98	2.16	2.08	2.02
127	1.39	1.37	7.17	24.14	31.61	25.46	7.70	2.16	2.05	2.08
128	1.42	1.39	6.17	23.17	30.82	24.60	6.99	2.24	2.05	2.13
129	1.47	1.45	4.57	22.47	29.84	23.83	5.65	2.24	2.05	2.11
130	1.53	1.50	2.34	20.69	28.91	22.20	4.16	2.27	2.02	2.16
131	1.58	1.56	1.67	19.84	28.48	21.13	1.99	2.30	2.02	2.24
132	1.58	1.56	1.64	19.12	27.22	20.25	1.99	2.38	2.02	2.32
133	1.58	1.61	1.64	18.13	25.74	19.27	1.99	2.38	2.02	2.35
134	1.58	1.67	1.64	15.56	24.34	17.60	2.04	2.49	2.05	2.41
135	1.61	1.67	1.64	13.47	23.05	15.09	2.07	2.51	2.10	2.46
136	1.61	1.75	1.64	11.26	21.36	13.27	2.07	2.51	2.13	2.46
137	1.69	1.75	1.64	8.33	17.71	10.03	2.13	2.57	2.21	2.46
138	1.72	1.78	1.64	3.46	15.30	6.44	2.18	2.57	2.30	2.46
139	1.77	1.86	1.64	2.30	12.14	2.48	2.18	2.62	2.38	2.46
140	1.88	1.94	1.67	2.24	8.65	2.48	2.26	2.59	2.46	2.46
141	1.91	1.91	1.67	2.22	2.90	2.48	2.26	2.59	2.51	2.46
142	2.04	1.97	1.78	2.22	2.53	2.48	2.32	2.59	2.49	2.49
143	2.05	2.05	1.88	2.22	2.50	2.48	2.32	2.59	2.49	2.51
144	2.05	2.05	1.99	2.22	2.41	2.48	2.37	2.59	2.49	2.49
145	2.08	2.05	2.02	2.22	2.26	2.48	2.42	2.59	2.49	2.51
146	2.08	2.05	2.05	2.22	2.20	2.48	2.40	2.59	2.49	2.51
147	2.13	2.13	2.10	2.22	2.20	2.48	2.40	2.62	2.49	2.51
148	2.18	2.21	2.16	2.22	2.20	2.48	2.40	2.62	2.49	2.51
149	2.21	2.27	2.16	2.22	2.20	2.48	2.40	2.73	2.49	2.51
150	2.21	2.30	2.21	2.22	2.23	2.50	2.40	2.73	2.49	2.52
151	2.21	2.35	2.24	2.24	2.23	2.45	2.40	2.79	2.46	2.54
152	2.21	2.38	2.24	2.24	2.31	2.45	2.43	2.76	2.46	2.51
153	2.21	2.38	2.24	2.24	2.40	2.42	2.43	2.79	2.46	2.51
154	2.21	2.38	2.24	2.24	2.50	2.40	2.51	2.79	2.46	2.49
155	2.21	2.38	2.24	2.24	2.56	2.40	2.51	2.81	2.46	2.49
156	2.21	2.38	2.24	2.24	2.58	2.40	2.53	2.84	2.46	2.51
157	2.21	2.38	2.24	2.24	2.58	2.40	2.51	2.84	2.54	2.54
158	2.21	2.38	2.24	2.24	2.64	2.43	2.56	2.84	2.57	2.60
159	2.21	2.38	2.24	2.24	2.72	2.45	2.62	2.87	2.68	2.68
160	2.21	2.38	2.24	2.24	2.72	2.51	2.67	2.84	2.76	2.73
161	2.21	2.43	2.24	2.24	2.77	2.62	2.72	2.73	2.76	2.76
162	2.21	2.43	2.24	2.24	2.77	2.75	2.73	2.70	2.81	2.76
163	2.21	2.43	2.24	2.24	2.85	2.84	2.75	2.71	2.84	2.79
164	2.24	2.46	2.24	2.24	2.91	2.95	2.78	2.76	2.87	2.79
165	2.21	2.49	2.27	2.24	2.99	3.05	2.78	2.84	2.98	2.82

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

166	2.43	2.49	2.30	2.35	3.13	3.13	2.89	2.89	3.06	2.95
167	2.49	2.59	2.41	2.41	3.18	3.19	2.95	2.95	3.20	3.07
168	2.67	2.68	2.43	2.46	3.29	3.27	3.08	2.92	3.31	3.20
169	2.89	2.89	2.46	2.49	3.34	3.33	3.11	2.92	3.33	3.31
170	3.00	2.98	2.54	2.63	3.40	3.38	3.08	2.95	3.41	3.42
171	3.08	3.06	2.57	2.79	3.40	3.46	3.08	3.00	3.47	3.50
172	3.22	3.06	2.60	2.85	3.40	3.43	3.08	2.98	3.47	3.50
173	3.38	3.09	2.60	2.87	3.40	3.46	3.08	3.00	3.47	3.42
174	3.44	3.31	2.76	2.96	3.40	3.46	3.08	3.00	3.47	3.42
175	3.41	3.33	2.90	2.93	3.37	3.43	3.08	3.00	3.55	3.42
176	3.41	3.36	2.93	2.93	3.34	3.43	3.08	3.00	3.52	3.42
177	3.41	3.42	2.98	2.93	3.32	3.35	3.08	3.00	3.52	3.42
178	3.41	3.47	2.98	2.93	3.32	3.35	3.08	3.03	3.52	3.42
179	3.41	3.44	2.98	2.96	3.32	3.35	3.08	2.98	3.52	3.42
180	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41

**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	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11	1756.11
1	1757.48	1756.43	1756.47	1761.10	1765.94	1764.76	1763.72
2	1765.75	1758.27	1761.51	1772.43	1773.28	1761.91	1752.39
3	1784.99	1770.92	1772.33	1779.17	1774.86	1755.07	1734.36
4	1779.64	1773.15	1766.79	1768.51	1762.35	1740.05	1716.07
5	1762.78	1781.03	1778.60	1768.46	1746.72	1729.86	1713.34
6	1744.00	1810.19	1797.79	1796.02	1737.81	1731.35	1724.32
7	1743.14	1809.34	1761.64	1787.34	1756.20	1725.99	1703.62
8	1764.54	1767.31	1752.59	1739.24	1784.25	1706.07	1682.83
9	1775.40	1757.16	1789.17	1750.54	1773.47	1709.86	1716.29
10	1752.26	1775.98	1778.53	1778.98	1726.31	1727.55	1715.69
11	1720.11	1758.48	1748.69	1760.20	1702.76	1729.22	1704.45
12	1710.79	1721.02	1741.29	1735.00	1740.07	1726.28	1696.04
13	1740.51	1718.92	1731.11	1727.15	1774.24	1747.50	1705.50
14	1755.59	1718.03	1722.55	1725.48	1748.31	1768.84	1717.08
15	1725.12	1712.68	1709.40	1723.98	1711.59	1778.08	1717.78
16	1691.22	1703.24	1704.40	1715.04	1699.14	1781.32	1730.49
17	1695.13	1711.39	1704.27	1710.72	1714.87	1775.16	1739.79
18	1698.17	1718.19	1694.46	1713.07	1721.55	1754.69	1718.48
19	1699.94	1710.12	1681.48	1704.23	1723.13	1748.39	1696.06
20	1699.64	1698.05	1696.30	1696.52	1707.56	1739.59	1691.14
21	1699.75	1694.37	1706.69	1693.61	1707.80	1748.87	1661.34
22	1689.33	1688.73	1698.44	1703.44	1705.10	1734.00	1659.63
23	1684.08	1689.64	1682.33	1716.64	1708.91	1716.40	1635.26
24	1689.08	1689.50	1676.08	1711.72	1720.91	1691.59	1621.21
25	1700.59	1663.67	1639.94	1687.32	1730.14	1656.48	1612.85
26	1711.98	1655.07	1606.63	1662.75	1730.36	1640.68	1598.21
27	1698.89	1636.89	1599.41	1622.88	1714.67	1631.20	1592.42
28	1676.16	1618.72	1594.25	1600.37	1688.50	1608.79	1588.28
29	1651.59	1600.60	1585.79	1597.99	1657.65	1607.82	1584.04
30	1627.02	1587.43	1564.93	1589.54	1647.07	1601.00	1569.31
31	1602.85	1554.99	1537.98	1559.57	1628.02	1582.18	1543.23
32	1591.76	1542.35	1522.15	1538.14	1612.38	1567.51	1534.10
33	1569.89	1525.26	1499.60	1529.11	1584.44	1543.62	1525.78
34	1547.05	1498.84	1484.76	1511.74	1561.04	1511.20	1491.93
35	1508.80	1477.19	1469.45	1508.64	1536.19	1489.55	1444.70
36	1473.30	1455.47	1422.00	1484.47	1505.65	1481.51	1382.56

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

37	1448.47	1430.25	1369.52	1445.67	1474.80	1446.75	1358.56
38	1418.80	1402.48	1328.50	1422.52	1450.15	1396.35	1326.50
39	1399.12	1368.50	1303.88	1387.42	1424.93	1352.25	1287.41
40	1362.81	1336.32	1271.25	1346.59	1387.83	1322.73	1261.68
41	1318.22	1289.79	1240.63	1299.33	1342.21	1292.86	1229.51
42	1293.30	1249.07	1206.19	1261.41	1322.11	1260.24	1210.73
43	1272.09	1217.62	1166.21	1232.84	1293.35	1221.04	1178.91
44	1240.49	1181.68	1140.56	1192.10	1262.11	1195.15	1133.48
45	1193.45	1153.97	1117.74	1163.36	1218.74	1156.97	1096.37
46	1155.53	1117.93	1067.58	1127.73	1182.74	1109.50	1066.93
47	1125.03	1079.98	1038.54	1084.21	1156.45	1077.53	1028.57
48	1094.56	1062.27	1002.91	1064.04	1124.15	1047.27	1006.06
49	1052.65	1032.38	980.89	1038.51	1079.29	1026.55	986.21
50	1017.18	1006.61	951.14	1014.84	1039.22	1016.11	964.15
51	986.36	975.57	929.51	982.76	1009.30	1005.14	915.71
52	951.91	956.15	889.72	952.63	979.63	970.21	864.56
53	930.74	922.69	855.68	919.69	956.97	909.02	832.13
54	908.89	893.26	823.30	889.53	939.68	878.92	800.37
55	886.44	856.13	790.97	857.77	902.16	863.10	791.75
56	856.53	829.36	777.00	840.80	869.13	847.54	793.20
57	811.86	819.10	783.73	823.83	839.16	831.99	761.95
58	772.50	826.45	736.06	826.46	809.29	822.88	707.19
59	754.01	775.76	686.25	777.98	779.42	761.59	675.00
60	761.87	725.48	668.88	727.36	792.88	723.85	665.37
61	747.72	708.83	662.38	708.56	774.55	709.65	659.47
62	701.96	705.79	661.79	703.02	721.17	711.95	657.84
63	650.79	706.26	640.96	704.75	671.59	709.06	621.18
64	643.15	682.58	603.00	680.35	663.31	681.99	579.95
65	647.68	641.48	585.76	639.66	672.94	635.31	567.56
66	629.55	620.26	562.83	621.34	647.89	616.59	546.89
67	596.87	601.00	557.93	597.68	611.91	600.91	537.08
68	560.07	602.98	528.88	597.98	581.08	599.40	510.69
69	538.08	569.79	524.84	566.29	556.37	568.32	493.08
70	532.85	567.47	502.10	567.65	547.65	535.66	444.28
71	501.71	522.06	459.65	520.09	520.28	496.42	421.87
72	495.76	497.38	453.32	494.24	509.52	468.84	397.82
73	449.95	486.26	418.98	480.94	466.80	440.83	357.05
74	422.62	446.12	400.68	442.33	433.84	406.00	332.74
75	399.65	433.66	372.77	428.43	412.68	375.75	302.89
76	368.63	392.24	342.45	389.03	380.78	340.07	270.32
77	338.90	359.10	313.81	354.79	350.75	309.52	244.31
78	308.23	327.81	287.66	325.41	317.13	279.68	221.69
79	279.94	298.71	260.28	297.18	287.62	257.75	203.17
80	254.87	266.29	231.50	264.00	259.57	235.87	187.85
81	233.61	241.46	209.22	237.46	236.07	218.57	173.82
82	213.32	218.29	186.22	212.89	215.51	201.31	159.42
83	196.61	199.48	168.45	195.47	198.68	185.74	146.18
84	181.98	183.21	149.35	177.79	183.73	170.85	133.54
85	168.86	166.80	133.32	161.92	170.05	157.22	122.01
86	156.11	153.12	120.29	148.18	157.06	144.75	111.24
87	143.40	140.94	109.35	136.25	144.07	133.19	101.89
88	130.74	127.43	98.41	122.94	131.47	122.10	93.47
89	117.50	114.34	88.77	110.28	118.66	111.51	86.73
90	104.86	100.53	79.31	96.95	105.82	98.79	80.86
91	87.10	85.80	69.58	81.52	86.31	69.72	62.23
92	66.02	70.97	58.76	67.03	63.44	32.50	31.11

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

93	43.69	55.66	47.52	51.57	40.44	5.24	10.40
94	25.55	40.41	35.84	36.91	22.59	1.70	1.07
95	14.15	28.13	27.09	25.79	12.95	20.20	12.22
96	8.02	18.78	20.30	18.00	8.25	36.74	35.18
97	12.63	13.57	15.19	12.46	13.97	50.83	51.06
98	18.77	8.12	9.99	8.84	20.30	46.25	51.58
99	24.02	13.87	12.70	14.22	25.48	40.56	46.00
100	28.25	21.56	20.06	21.60	29.73	35.83	40.73
101	31.26	30.13	29.48	30.18	32.80	31.44	35.99
102	33.39	39.27	39.50	38.80	34.56	27.85	31.44
103	35.38	47.84	49.16	47.05	36.48	25.04	27.41
104	35.07	53.37	57.68	52.41	35.69	22.85	24.28
105	34.41	57.50	63.51	56.86	34.81	21.39	21.65
106	33.09	61.57	67.89	60.58	33.46	19.64	19.73
107	31.35	66.31	69.28	64.98	31.53	18.36	17.94
108	29.10	64.34	75.10	63.39	28.30	16.74	16.36
109	27.72	62.17	73.02	61.53	27.32	15.28	14.80
110	27.50	60.40	70.05	59.58	27.28	13.76	13.92
111	26.98	58.68	66.75	57.55	27.04	11.33	12.66
112	25.67	56.59	64.13	55.75	25.69	8.35	10.39
113	24.13	55.25	62.98	55.07	24.04	4.11	8.35
114	22.71	52.43	60.51	51.59	22.52	2.85	4.10
115	21.42	48.76	56.25	47.70	21.27	2.25	1.35
116	20.26	45.37	52.71	44.05	20.17	1.70	1.34
117	18.81	42.19	48.82	40.83	18.91	1.46	1.31
118	17.36	39.13	45.44	38.09	17.55	1.45	1.31
119	16.07	36.80	42.67	35.82	16.32	1.45	1.28
120	14.89	34.54	39.61	33.60	15.29	1.45	1.28
121	13.79	32.31	37.13	31.34	14.30	1.45	1.28
122	13.06	30.24	35.32	29.18	13.60	1.45	1.28
123	12.46	28.69	33.22	27.50	13.02	1.45	1.28
124	12.00	27.46	31.45	26.16	12.70	1.45	1.28
125	11.06	26.74	30.87	25.89	11.70	1.45	1.31
126	9.98	26.60	30.39	25.57	10.64	1.47	1.34
127	9.27	26.43	30.15	25.32	9.90	1.45	1.39
128	8.08	25.99	29.80	24.93	8.83	1.50	1.42
129	7.32	25.40	29.36	24.34	7.91	1.61	1.47
130	6.53	24.59	28.55	23.68	7.14	1.58	1.53
131	5.12	23.31	27.92	22.72	5.71	1.58	1.58
132	2.51	20.63	26.62	20.10	3.44	1.58	1.58
133	2.02	19.22	25.24	18.64	1.78	1.66	1.58
134	2.02	17.92	22.69	17.61	1.72	1.69	1.58
135	2.02	16.81	21.14	16.58	1.69	1.77	1.61
136	2.08	14.33	20.09	14.19	1.69	2.01	1.61
137	2.08	12.71	18.94	12.54	1.69	2.07	1.69
138	2.13	9.77	15.92	9.90	1.69	2.05	1.72
139	2.19	6.54	13.97	7.04	1.69	2.05	1.77
140	2.19	2.19	10.81	2.36	1.69	2.07	1.88
141	2.27	2.16	7.67	2.26	1.69	2.16	1.91
142	2.30	2.19	2.52	2.24	1.72	2.13	2.04
143	2.41	2.22	2.47	2.23	1.69	2.18	2.05
144	2.43	2.25	2.42	2.26	1.88	2.18	2.05
145	2.43	2.27	2.34	2.21	2.04	2.24	2.08
146	2.52	2.33	2.23	2.21	2.04	2.29	2.08
147	2.54	2.38	2.18	2.21	2.04	2.27	2.13
148	2.54	2.38	2.10	2.21	2.07	2.29	2.18



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

<b>149</b>	2.54	2.38	2.01	2.21	2.12	2.27	2.21
<b>150</b>	2.54	2.38	1.93	2.21	2.15	2.35	2.21
<b>151</b>	2.54	2.38	1.93	2.21	2.18	2.32	2.21
<b>152</b>	2.54	2.38	1.93	2.21	2.23	2.32	2.21
<b>153</b>	2.54	2.38	2.01	2.21	2.23	2.32	2.21
<b>154</b>	2.54	2.38	2.04	2.21	2.23	2.32	2.21
<b>155</b>	2.54	2.41	2.12	2.21	2.23	2.32	2.21
<b>156</b>	2.54	2.41	2.12	2.21	2.23	2.32	2.21
<b>157</b>	2.54	2.44	2.17	2.21	2.23	2.32	2.21
<b>158</b>	2.54	2.49	2.23	2.21	2.23	2.32	2.21
<b>159</b>	2.54	2.46	2.23	2.21	2.23	2.32	2.21
<b>160</b>	2.54	2.46	2.23	2.21	2.26	2.32	2.21
<b>161</b>	2.60	2.49	2.34	2.21	2.26	2.37	2.21
<b>162</b>	2.60	2.52	2.36	2.21	2.26	2.40	2.21
<b>163</b>	2.68	2.57	2.39	2.21	2.26	2.43	2.21
<b>164</b>	2.74	2.60	2.45	2.21	2.26	2.43	2.24
<b>165</b>	2.93	2.69	2.47	2.23	2.29	2.43	2.21
<b>166</b>	3.12	2.82	2.45	2.29	2.37	2.57	2.43
<b>167</b>	3.23	2.82	2.55	2.34	2.48	2.70	2.49
<b>168</b>	3.36	2.85	2.53	2.40	2.53	2.87	2.67
<b>169</b>	3.39	2.88	2.77	2.53	2.59	3.00	2.89
<b>170</b>	3.53	2.98	2.93	2.72	2.67	3.11	3.00
<b>171</b>	3.61	2.98	3.07	2.89	2.78	3.25	3.08
<b>172</b>	3.64	2.98	3.18	2.97	2.78	3.41	3.22
<b>173</b>	3.69	2.98	3.26	2.94	2.78	3.44	3.38
<b>174</b>	3.66	2.98	3.37	2.97	2.83	3.44	3.44
<b>175</b>	3.66	2.98	3.37	3.00	2.91	3.52	3.41
<b>176</b>	3.66	2.98	3.37	3.05	2.89	3.52	3.41
<b>177</b>	3.64	2.98	3.37	3.08	2.89	3.58	3.41
<b>178</b>	3.55	2.98	3.42	3.08	2.94	3.63	3.41
<b>179</b>	3.50	2.98	3.37	3.08	3.00	3.63	3.41
<b>180</b>	3.41	3.41	3.41	3.41	3.41	3.41	3.41

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	656.41	N.A.	12.40
0-30	1424.01	N.A.	26.90
0-40	2344.4	N.A.	44.30
0-60	3989.51	N.A.	75.30
0-80	5001.84	N.A.	94.40
0-90	5172.13	N.A.	97.60
10-90	5005.09	N.A.	94.50
20-40	1687.99	N.A.	31.90
20-50	2572.79	N.A.	48.60
40-70	2262.87	N.A.	42.70
60-80	1012.33	N.A.	19.10
70-80	394.57	N.A.	7.40
80-90	170.29	N.A.	3.20
90-110	78.35	N.A.	1.50
90-120	103.18	N.A.	1.90
90-130	115.82	N.A.	2.20
90-150	123.24	N.A.	2.30
90-180	125.39	N.A.	2.40
110-180	47.04	N.A.	0.90
0-180	5297.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.03
10-20	489.37
20-30	767.60
30-40	920.39
40-50	884.80
50-60	760.32
60-70	617.75
70-80	394.57
80-90	170.29
90-100	40.78
100-110	37.58
110-120	24.83
120-130	12.64
130-140	5.93
140-150	1.49
150-160	1.10
160-170	0.75
170-180	0.30

# IES INDOOR REPORT

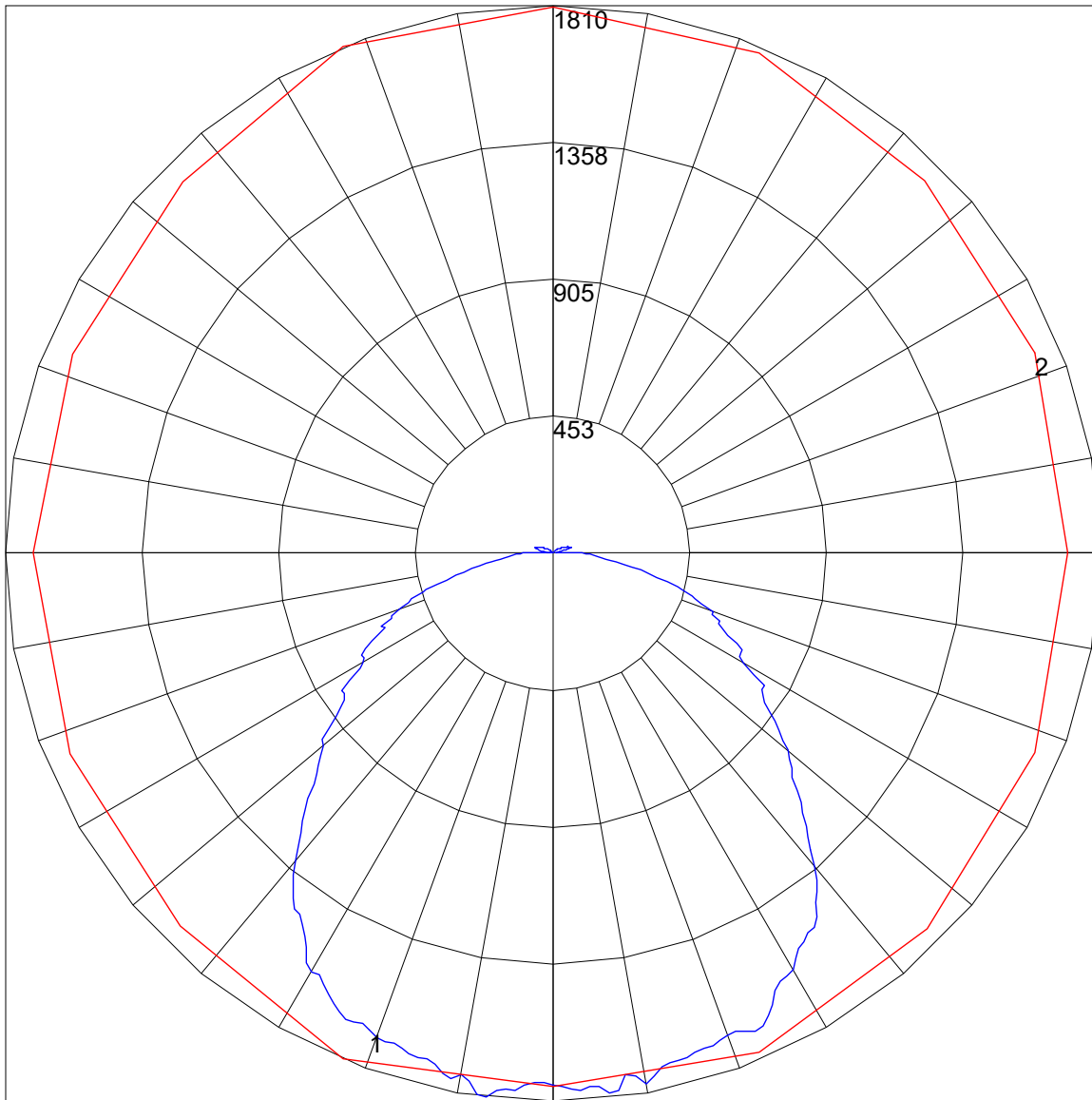
PHOTOMETRIC FILENAME : CPE 12 MD UV PPD 840.IES

## 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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

POLAR GRAPH



Maximum Candela = 1810.24 Located At Horizontal Angle = 112.5, Vertical Angle = 7  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)