



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : CPE 9 LW UV PPD 840.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST]

[TESTLAB] EVERFINE

[TESTDATE] 14 May 2016

[ISSUEDATE] 2016-05-14 12:54:38

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] LumenFocus, LLC

[LUMINAIRE] CPE 9 LW UV PPD 840

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	75.01	75.01	3.38	3.38
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[OTHER]	10- 20	218.83	293.84	13.24	13.24
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[OTHER]	20- 30	334.34	628.18	28.31	28.31
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[OTHER]	30- 40	385.93	1014.11	45.70	45.70
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[OTHER]	40- 50	366.54	1380.65	62.21	62.21
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[OTHER]	50- 60	306.99	1687.64	76.05	76.05
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[OTHER]	60- 70	245.61	1933.25	87.11	87.11
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[OTHER]	70- 80	147.77	2081.02	93.77	93.77
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[OTHER]	80- 90	71.71	2152.73	97.00	97.00
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[OTHER]	90-100	15.15	2167.88	97.69	97.69
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[OTHER]	100-110	19.20	2187.07	98.55	98.55
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[OTHER]	110-120	16.37	2203.44	99.29	99.29
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[OTHER]	120-130	9.06	2212.50	99.70	99.70
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[OTHER]	130-140	4.50	2216.99	99.90	99.90
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[OTHER]	140-150	1.48	2218.47	99.97	99.97
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[OTHER]	150-160	0.39	2218.87	99.98	99.98
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[OTHER]	160-170	0.26	2219.13	100.00	100.00
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[OTHER]	170-180	0.11	2219.23	100.00	100.00
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[OTHER]

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**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2219
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	23.567
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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

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**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</b>	785.12	785.12	785.12	785.12	785.12	785.12	785.12	785.12	785.12	785.12
<b>1</b>	799.29	805.45	805.74	801.24	795.66	789.76	785.03	780.28	770.83	760.15
<b>2</b>	786.58	799.39	799.71	801.98	794.59	782.09	778.75	788.05	780.73	759.41
<b>3</b>	776.17	781.01	784.96	802.41	797.24	779.19	777.23	791.93	786.20	768.66
<b>4</b>	784.14	769.05	763.43	792.51	786.84	771.69	784.46	789.41	782.05	768.85
<b>5</b>	799.49	783.53	758.76	788.76	782.78	783.82	783.33	779.93	788.25	769.26
<b>6</b>	808.41	804.72	775.21	770.32	779.46	776.88	775.96	774.66	803.03	776.32
<b>7</b>	799.13	800.37	789.16	767.25	783.05	776.09	777.03	780.66	807.94	795.20
<b>8</b>	783.46	782.54	794.97	778.76	783.88	783.28	787.09	782.12	800.65	810.24
<b>9</b>	775.93	776.03	794.02	773.60	772.37	779.79	799.57	778.96	790.96	801.06
<b>10</b>	774.98	782.52	788.51	753.45	765.96	763.12	796.09	783.50	776.83	782.27
<b>11</b>	781.59	786.27	778.27	762.98	783.50	761.22	783.25	783.25	764.59	769.54
<b>12</b>	781.42	783.31	766.85	789.08	786.29	778.20	772.40	777.01	769.42	763.47
<b>13</b>	774.46	774.52	758.42	791.52	767.66	783.90	758.42	764.33	775.78	763.27
<b>14</b>	767.64	765.44	762.53	771.74	764.49	767.64	753.22	755.14	764.58	765.74
<b>15</b>	760.44	776.48	775.67	763.37	786.01	764.71	755.59	751.21	766.01	765.97
<b>16</b>	763.86	788.65	785.73	782.60	778.63	785.00	768.15	761.38	763.17	766.94
<b>17</b>	763.57	786.54	777.29	784.66	754.70	789.84	765.78	776.74	770.69	756.83
<b>18</b>	758.52	788.08	771.02	757.72	744.73	757.60	752.13	778.66	777.90	754.17
<b>19</b>	768.38	780.33	772.69	754.21	735.70	745.39	753.89	780.99	768.69	766.22
<b>20</b>	772.49	766.15	780.93	751.84	731.54	754.68	760.87	774.89	768.60	773.52
<b>21</b>	749.61	750.43	787.49	742.14	737.42	745.09	772.96	752.73	765.68	763.46
<b>22</b>	721.33	735.72	782.92	738.60	719.97	732.27	780.56	727.18	739.89	752.40
<b>23</b>	722.25	713.60	765.71	727.42	711.76	725.20	769.15	706.54	734.56	739.93
<b>24</b>	716.82	706.79	753.58	713.10	729.61	700.99	755.15	704.45	749.44	724.31
<b>25</b>	717.02	708.60	730.95	726.51	714.89	702.99	747.36	710.79	738.80	732.51
<b>26</b>	703.49	708.00	724.32	733.74	687.14	735.55	727.73	707.00	725.14	732.55
<b>27</b>	681.57	704.97	734.15	706.18	666.63	712.15	714.81	694.06	714.37	713.50
<b>28</b>	662.94	690.35	740.36	688.59	657.23	688.75	712.03	690.19	695.10	706.09
<b>29</b>	653.27	676.44	713.40	671.31	667.17	677.19	708.33	676.79	679.05	697.16
<b>30</b>	649.55	677.30	678.54	672.71	657.15	669.59	687.24	669.48	661.09	683.93
<b>31</b>	650.88	661.86	663.39	672.65	642.68	676.60	674.01	676.08	649.16	671.70
<b>32</b>	640.85	648.43	648.50	664.91	640.38	674.67	667.16	667.15	648.20	653.28
<b>33</b>	627.28	631.10	647.91	643.14	622.95	643.41	641.22	654.89	650.27	644.95
<b>34</b>	616.42	620.14	638.78	635.08	595.05	628.72	638.96	645.34	636.68	646.83
<b>35</b>	605.44	605.67	626.04	610.81	572.53	616.66	635.67	634.00	617.50	651.90
<b>36</b>	582.75	583.08	605.51	589.64	565.78	597.30	630.48	610.34	587.39	636.29
<b>37</b>	574.44	562.04	588.03	571.24	572.25	582.21	609.81	588.00	558.07	598.62
<b>38</b>	562.35	555.82	569.91	566.78	562.23	569.81	589.34	564.06	551.11	568.55
<b>39</b>	552.26	552.05	554.76	562.34	545.82	566.24	562.86	554.39	549.40	552.75
<b>40</b>	530.95	548.72	544.27	551.42	538.71	558.70	554.20	552.55	546.12	548.92
<b>41</b>	514.57	530.78	526.01	543.82	541.82	546.59	536.68	549.32	534.34	544.01
<b>42</b>	500.22	517.81	518.31	529.53	514.07	541.36	522.81	539.31	517.66	526.99
<b>43</b>	470.89	497.77	504.03	509.12	472.40	517.19	516.57	524.60	500.04	512.54
<b>44</b>	449.37	467.04	487.85	471.17	449.43	489.74	509.67	499.54	475.70	498.31
<b>45</b>	444.40	448.10	469.19	452.62	447.09	462.50	496.34	478.94	462.16	476.47
<b>46</b>	437.24	442.02	454.18	451.44	442.44	451.98	471.18	459.44	457.80	464.03
<b>47</b>	405.59	433.40	446.01	443.18	420.53	446.79	453.62	453.34	446.15	452.04
<b>48</b>	390.94	407.71	437.84	419.71	392.36	428.01	442.36	443.50	421.54	447.54
<b>49</b>	394.59	397.15	417.82	400.30	380.36	408.20	429.90	415.41	399.77	425.85
<b>50</b>	376.51	398.64	399.71	391.34	373.13	395.94	416.03	400.86	398.45	400.52
<b>51</b>	339.54	377.40	390.23	381.60	355.40	384.44	399.74	407.15	395.51	391.79
<b>52</b>	322.64	347.20	381.22	364.40	328.81	368.77	388.85	399.93	360.81	392.07
<b>53</b>	332.13	333.84	371.56	347.86	339.12	347.27	380.93	362.41	319.80	371.34

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**CANDELA TABULATION - (Cont.)**

54	336.51	342.66	356.79	353.09	332.20	339.33	373.12	331.60	324.71	331.97
55	327.49	346.37	341.86	341.10	322.58	343.13	359.17	341.62	333.30	325.30
56	305.16	329.09	334.70	325.22	317.92	332.00	345.02	342.82	328.85	333.80
57	298.35	312.09	334.20	325.92	313.81	322.24	333.52	333.07	309.83	329.11
58	299.73	309.87	329.07	326.80	309.04	324.24	334.56	313.46	289.94	313.58
59	280.21	308.57	314.02	326.74	300.02	316.03	329.87	297.70	278.06	296.07
60	263.28	294.59	309.95	302.60	270.12	311.30	311.86	293.75	263.27	283.38
61	257.62	279.06	304.47	271.22	264.70	287.29	301.82	273.09	247.46	268.86
62	253.87	277.74	293.05	287.39	292.42	265.43	291.73	265.27	244.14	256.36
63	228.73	266.56	281.43	287.83	273.41	286.53	278.62	260.49	241.92	253.06
64	214.21	240.96	271.08	278.67	266.41	278.28	260.88	251.39	227.77	248.54
65	211.00	235.75	258.93	272.10	259.79	269.69	250.53	231.29	206.16	236.56
66	204.42	228.94	244.52	255.61	236.74	260.17	245.64	219.43	203.13	216.15
67	197.02	225.52	233.74	239.87	224.48	240.89	228.75	216.63	200.88	210.06
68	179.83	206.60	224.56	226.43	214.53	225.11	217.69	218.96	198.17	209.95
69	167.68	188.13	205.91	218.42	210.27	210.91	208.16	201.79	169.27	202.25
70	162.95	182.89	190.44	211.18	194.91	209.69	195.78	179.95	160.39	177.62
71	149.89	170.79	186.58	192.67	180.94	196.73	179.15	167.93	152.98	169.20
72	139.00	161.80	173.46	179.03	172.79	181.35	170.93	162.27	144.90	163.25
73	125.73	146.82	161.60	169.15	160.18	168.59	163.52	152.01	132.49	152.76
74	119.18	140.00	147.86	163.21	154.44	157.61	150.68	138.84	120.32	140.37
75	106.31	127.55	139.86	146.40	138.59	152.62	140.35	131.07	112.83	132.91
76	97.76	117.15	128.73	138.09	132.43	136.25	130.19	120.09	103.58	124.88
77	90.44	107.02	118.93	127.27	121.65	128.95	123.70	111.47	97.10	115.04
78	84.11	98.41	109.72	117.00	111.77	118.62	113.28	104.24	91.74	107.18
79	78.24	91.58	102.33	109.21	103.27	109.46	106.64	97.52	85.67	99.77
80	72.18	85.44	96.14	102.98	96.92	102.56	99.78	90.49	79.75	93.44
81	67.22	79.51	90.82	96.84	91.36	96.34	93.08	84.41	74.22	87.44
82	61.72	74.15	85.27	90.77	84.71	90.31	86.97	78.12	68.90	81.84
83	56.59	69.15	79.05	84.44	78.08	84.27	80.90	72.50	64.07	75.83
84	51.53	63.79	73.13	77.54	71.58	77.46	74.95	67.39	59.34	70.47
85	47.07	58.47	67.41	70.02	63.41	70.40	69.27	62.65	54.73	65.19
86	43.04	53.51	61.93	61.72	52.47	62.44	63.73	58.10	50.03	60.06
87	39.46	49.14	56.53	54.30	45.39	55.50	58.28	53.51	45.36	55.11
88	36.45	45.29	51.30	48.37	40.88	49.96	52.64	49.01	40.95	50.57
89	34.07	41.82	46.33	43.21	36.42	44.81	47.14	44.54	36.91	45.92
90	32.03	38.23	41.78	38.32	32.46	39.31	41.63	38.84	33.41	40.44
91	23.82	25.80	34.43	33.14	28.74	32.54	31.42	23.72	23.68	25.93
92	8.70	6.00	23.06	26.61	24.74	25.55	19.40	2.51	6.67	4.33
93	0.23	0.39	10.42	18.32	19.52	16.98	7.62	0.26	0.19	0.25
94	0.14	1.05	0.94	9.51	13.02	9.03	0.34	1.43	0.29	0.92
95	9.15	13.22	0.63	1.82	6.36	1.61	0.68	14.80	9.01	12.85
96	24.27	25.26	2.96	1.75	0.66	1.24	3.42	23.25	24.45	23.75
97	25.35	23.42	6.18	3.88	3.64	3.23	6.31	20.87	23.51	21.46
98	23.70	21.28	9.04	6.25	6.31	5.39	8.73	18.81	21.79	19.35
99	22.03	19.24	10.98	9.55	9.65	8.22	10.31	16.92	19.95	17.42
100	20.65	17.36	11.98	14.07	14.13	12.10	10.95	15.07	18.09	15.64
101	18.67	15.48	12.03	18.92	19.79	16.65	10.23	13.43	16.49	13.95
102	16.54	13.77	11.56	24.23	25.87	21.83	9.64	11.87	14.88	12.20
103	14.75	12.02	11.35	29.55	32.41	26.95	9.60	10.37	12.79	10.86
104	13.19	10.42	10.82	31.68	38.79	29.94	9.32	9.01	11.22	9.36
105	11.16	9.04	10.58	32.25	42.57	30.83	9.81	7.74	9.65	8.11
106	9.16	7.67	11.60	32.79	42.13	31.50	10.86	6.74	7.90	7.00
107	7.56	6.53	12.68	33.36	41.74	31.97	11.75	5.53	6.41	5.51
108	6.25	5.09	14.26	34.25	41.16	32.58	12.75	3.04	4.75	3.14
109	5.04	2.61	14.70	35.58	41.68	33.13	14.14	2.18	1.74	3.11

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**CANDELA TABULATION - (Cont.)**

110	2.59	2.54	14.73	36.65	42.03	34.42	14.70	2.18	0.38	3.09
111	0.48	2.51	14.52	35.89	43.12	36.36	14.34	2.18	0.36	3.09
112	0.44	2.48	14.33	34.93	43.10	35.02	14.04	2.18	0.36	3.09
113	0.44	2.40	14.11	33.34	42.29	33.18	13.88	2.10	0.36	3.09
114	0.44	2.24	14.02	31.56	39.27	31.53	13.63	2.04	0.36	2.97
115	0.44	2.05	13.86	29.70	36.84	30.02	13.43	1.77	0.36	2.83
116	0.44	1.80	13.53	28.66	35.37	28.23	12.99	1.66	0.30	2.57
117	0.36	1.49	13.29	27.53	33.75	27.08	12.59	1.33	0.33	2.48
118	0.33	1.12	12.88	26.50	32.59	26.62	12.04	1.16	0.30	2.18
119	0.33	0.79	12.29	25.18	31.51	25.59	11.73	0.68	0.36	1.99
120	0.33	0.60	11.63	23.92	29.92	24.49	11.28	0.44	0.36	1.66
121	0.33	0.46	10.95	22.47	28.25	23.35	10.74	0.41	0.38	1.31
122	0.33	0.44	10.19	21.09	26.48	21.71	10.06	0.41	0.41	1.11
123	0.36	0.44	9.30	19.92	24.92	20.14	9.38	0.44	0.44	0.71
124	0.33	0.44	8.46	18.84	23.56	18.88	8.57	0.41	0.44	0.49
125	0.38	0.44	7.88	17.73	22.03	17.78	7.74	0.46	0.47	0.46
126	0.36	0.44	7.23	16.89	21.01	16.89	7.25	0.44	0.47	0.49
127	0.36	0.44	6.79	16.22	20.08	16.09	6.54	0.49	0.47	0.52
128	0.38	0.44	6.49	15.47	19.44	15.42	6.13	0.46	0.49	0.49
129	0.41	0.44	6.37	14.59	18.53	14.55	6.02	0.49	0.49	0.49
130	0.38	0.44	6.07	13.89	17.72	13.67	6.04	0.52	0.49	0.55
131	0.44	0.44	5.61	13.35	16.73	13.03	5.48	0.52	0.49	0.57
132	0.41	0.44	5.06	12.80	15.85	12.56	4.81	0.55	0.49	0.57
133	0.41	0.44	4.13	12.21	15.25	11.99	4.14	0.57	0.52	0.60
134	0.41	0.44	3.61	11.04	14.61	11.24	3.45	0.57	0.55	0.57
135	0.41	0.44	3.25	10.56	13.94	10.48	3.06	0.57	0.58	0.60
136	0.44	0.44	2.58	9.95	13.21	10.02	2.57	0.61	0.58	0.66
137	0.41	0.52	1.94	9.36	11.88	9.46	2.15	0.90	0.58	0.93
138	0.47	0.76	1.03	8.72	11.21	8.92	1.43	1.17	0.61	1.26
139	0.52	0.84	0.77	8.14	10.46	8.24	0.79	1.15	0.81	1.20
140	0.68	0.82	0.79	7.33	9.85	7.70	0.79	0.98	1.21	1.17
141	0.79	0.82	0.77	6.14	9.12	6.40	0.77	0.84	1.12	0.98
142	0.80	0.82	0.79	5.79	8.58	5.66	0.85	0.82	1.01	0.82
143	0.80	0.82	0.79	5.03	7.42	5.44	0.82	0.82	0.93	0.82
144	0.80	0.82	0.79	3.91	6.42	4.53	0.82	0.82	0.90	0.82
145	0.80	0.82	0.79	2.62	5.98	3.56	0.82	0.82	0.90	0.85
146	0.80	0.82	0.79	1.14	4.56	2.37	0.82	0.82	0.90	0.85
147	0.80	0.82	0.79	1.10	3.44	0.88	0.82	0.87	0.90	0.85
148	0.80	0.82	0.79	1.07	1.79	0.85	0.82	0.85	0.90	0.85
149	0.80	0.82	0.79	1.07	0.82	0.85	0.82	0.85	0.90	0.85
150	0.80	0.82	0.79	1.04	0.79	0.85	0.82	0.85	0.90	0.85
151	0.80	0.82	0.79	1.04	0.82	0.85	0.82	0.85	0.90	0.85
152	0.80	0.82	0.79	1.04	0.85	0.85	0.82	0.85	0.90	0.85
153	0.80	0.82	0.79	1.04	0.88	0.85	0.82	0.85	0.90	0.85
154	0.80	0.82	0.79	1.04	0.93	0.85	0.82	0.85	0.90	0.85
155	0.80	0.82	0.79	1.07	0.98	0.85	0.82	0.85	0.90	0.85
156	0.80	0.82	0.79	1.01	0.98	0.85	0.82	0.87	0.90	0.85
157	0.80	0.82	0.79	1.01	0.98	0.85	0.82	0.82	0.90	0.85
158	0.80	0.82	0.79	1.01	0.98	0.85	0.85	0.82	0.90	0.85
159	0.80	0.82	0.79	1.01	0.98	0.88	0.90	0.82	0.90	0.85
160	0.80	0.82	0.79	1.01	0.98	0.90	0.88	0.82	0.90	0.85
161	0.80	0.82	0.79	1.04	0.98	0.93	0.88	0.82	0.90	0.85
162	0.80	0.82	0.79	1.01	0.98	0.99	0.88	0.85	0.90	0.85
163	0.80	0.82	0.79	0.99	0.98	1.01	0.88	0.85	0.90	0.85
164	0.80	0.82	0.79	0.99	0.98	1.07	0.90	0.87	0.91	0.85
165	0.80	0.85	0.79	0.99	0.98	1.10	0.88	0.93	0.96	0.90

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 9 LW UV PPD 840.IES**

**CANDELA TABULATION - (Cont.)**

166	0.80	0.85	0.82	0.99	0.98	1.10	0.93	1.01	1.01	0.96
167	0.82	0.90	0.87	0.99	0.98	1.15	0.96	1.04	1.04	1.01
168	0.85	0.93	0.85	0.99	0.98	1.12	1.01	1.07	1.13	1.07
169	0.93	0.93	0.90	0.99	0.98	1.18	1.07	1.12	1.15	1.12
170	1.04	0.96	0.93	0.99	0.98	1.18	1.04	1.12	1.23	1.20
171	1.07	0.96	0.96	0.99	0.98	1.21	1.04	1.20	1.21	1.26
172	1.18	1.01	1.01	0.99	0.98	1.21	1.04	1.17	1.21	1.23
173	1.18	1.01	1.04	1.01	0.98	1.21	1.04	1.17	1.21	1.23
174	1.23	1.12	1.07	1.04	0.98	1.21	1.04	1.17	1.21	1.23
175	1.23	1.15	1.15	1.15	0.98	1.20	1.04	1.17	1.21	1.23
176	1.23	1.15	1.12	1.21	0.96	1.18	1.04	1.17	1.21	1.23
177	1.23	1.17	1.12	1.23	0.96	1.12	1.04	1.17	1.21	1.23
178	1.23	1.17	1.12	1.21	0.96	1.12	1.04	1.17	1.21	1.23
179	1.23	1.20	1.15	1.21	0.96	1.12	1.04	1.17	1.21	1.23
180	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23

**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	785.12	785.12	785.12	785.12	785.12	785.12	785.12
1	754.44	758.16	768.46	777.63	783.31	790.30	799.29
2	756.39	768.85	791.16	797.19	784.89	774.41	786.58
3	788.44	796.60	815.64	818.25	787.30	759.09	776.17
4	812.52	793.79	803.30	810.41	795.46	761.09	784.14
5	808.81	772.92	786.31	779.81	795.82	782.11	799.49
6	784.09	777.68	788.08	769.49	784.27	808.21	808.41
7	760.83	783.93	790.99	779.57	776.60	820.33	799.13
8	765.51	785.44	804.18	775.82	784.07	811.05	783.46
9	781.07	788.98	810.89	773.77	795.99	793.98	775.93
10	783.31	787.31	803.65	791.16	794.68	787.85	774.98
11	782.20	783.72	785.77	805.84	793.74	793.39	781.59
12	783.76	773.30	787.52	797.04	797.24	787.21	781.42
13	788.80	773.86	792.63	799.51	794.82	773.54	774.46
14	782.86	785.63	772.52	795.54	784.28	769.82	767.64
15	756.78	774.93	766.07	774.93	779.86	774.89	760.44
16	751.00	763.99	781.93	771.90	785.69	770.94	763.86
17	773.84	779.36	782.17	784.57	797.03	762.64	763.57
18	779.30	786.95	755.40	794.98	793.19	754.42	758.52
19	764.02	765.43	743.45	779.61	777.46	747.44	768.38
20	754.08	761.43	740.54	765.51	765.99	752.66	772.49
21	761.74	752.74	750.28	756.61	771.32	761.16	749.61
22	766.87	753.26	734.21	763.57	786.82	763.89	721.33
23	769.97	735.99	722.07	755.37	781.64	740.15	722.25
24	761.28	719.25	716.80	734.35	758.17	724.72	716.82
25	743.58	704.48	714.48	714.46	743.11	724.20	717.02
26	735.48	710.41	723.88	706.71	740.26	721.20	703.49
27	735.03	716.73	717.62	712.80	742.19	713.65	681.57
28	738.96	718.64	712.19	718.17	737.03	698.83	662.94
29	730.68	719.36	691.25	710.86	727.61	678.36	653.27
30	720.92	723.99	662.41	707.74	720.38	654.14	649.55
31	703.15	692.96	650.14	694.72	700.38	634.76	650.88
32	679.48	671.16	632.79	682.13	675.75	631.37	640.85
33	652.17	642.48	634.18	659.76	650.53	632.86	627.28
34	637.88	637.83	633.68	657.82	635.30	630.02	616.42
35	624.64	646.51	628.25	648.24	620.75	619.13	605.44
36	620.80	633.71	617.32	636.17	615.36	597.81	582.75

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**CANDELA TABULATION - (Cont.)**

37	612.28	618.34	580.19	623.15	611.83	577.34	574.44
38	594.09	591.64	560.12	595.69	597.37	564.19	562.35
39	585.71	566.11	548.93	570.34	582.23	555.21	552.26
40	572.16	556.22	546.46	556.30	566.63	551.99	530.95
41	552.99	552.63	547.69	557.98	550.58	534.70	514.57
42	545.61	544.15	540.87	554.00	544.00	518.72	500.22
43	528.60	534.73	545.08	543.06	526.44	506.38	470.89
44	515.43	529.37	506.42	535.52	512.89	482.33	449.37
45	502.07	503.65	452.48	496.34	504.60	457.98	444.40
46	491.58	459.67	421.06	450.72	485.45	451.78	437.24
47	469.39	426.61	413.21	423.61	461.41	446.58	405.59
48	447.17	414.55	421.48	423.53	442.90	419.43	390.94
49	431.72	419.92	411.88	426.61	427.60	397.74	394.59
50	414.16	412.01	391.25	410.61	410.60	394.84	376.51
51	398.87	393.21	388.17	393.90	393.22	386.67	339.54
52	384.06	383.06	386.19	396.27	385.29	354.17	322.64
53	369.19	384.62	354.91	391.21	376.35	333.47	332.13
54	363.61	361.12	330.72	361.76	362.91	334.38	336.51
55	354.68	338.49	339.90	354.62	351.54	337.66	327.49
56	339.58	340.27	328.08	354.24	342.14	332.45	305.16
57	324.89	330.51	318.67	339.22	337.38	315.18	298.35
58	318.58	320.04	299.72	324.59	335.13	302.85	299.73
59	320.50	300.66	307.12	319.46	326.10	305.29	280.21
60	313.04	305.78	321.36	334.49	310.32	293.59	263.28
61	293.78	324.28	314.40	348.06	307.01	280.58	257.62
62	286.64	318.47	242.25	310.03	304.81	271.52	253.87
63	285.16	262.10	253.69	266.85	300.31	264.38	228.73
64	272.49	257.52	270.04	289.89	278.22	244.62	214.21
65	250.66	267.08	256.07	283.37	262.42	227.74	211.00
66	241.52	257.60	248.45	270.22	254.49	218.29	204.42
67	236.42	250.64	244.08	270.72	235.49	212.89	197.02
68	216.95	245.36	230.58	257.09	227.06	208.96	179.83
69	210.75	230.51	211.34	232.03	219.62	193.88	167.68
70	204.45	211.52	201.94	216.03	206.48	178.13	162.95
71	187.13	205.28	194.88	212.25	189.45	169.17	149.89
72	172.65	196.53	176.42	197.35	179.05	157.22	139.00
73	166.37	177.75	167.87	180.45	168.48	147.99	125.73
74	160.27	166.82	162.55	175.89	154.02	137.47	119.18
75	143.37	158.12	146.85	156.84	145.84	128.46	106.31
76	135.31	145.63	140.73	149.79	131.15	117.82	97.76
77	125.28	134.66	126.75	133.76	125.09	107.68	90.44
78	118.36	123.87	119.58	124.52	113.79	100.78	84.11
79	109.42	115.06	110.51	114.89	105.76	93.56	78.24
80	103.06	107.36	102.67	105.66	98.94	87.30	72.18
81	96.77	100.91	95.71	98.98	92.75	81.89	67.22
82	90.83	95.82	90.37	93.99	87.32	76.31	61.72
83	85.13	90.67	84.60	88.74	81.24	70.87	56.59
84	78.95	83.56	77.31	81.52	75.15	65.75	51.53
85	73.23	74.67	64.29	73.34	69.68	60.64	47.07
86	67.59	66.01	54.13	65.28	63.90	55.67	43.04
87	61.90	59.04	47.57	58.66	58.31	50.85	39.46
88	56.18	53.13	42.53	53.27	52.99	46.54	36.45
89	50.37	46.62	37.35	47.26	47.79	42.73	34.07
90	44.39	40.42	32.51	40.93	42.13	37.74	32.03
91	34.55	32.77	27.79	33.48	32.62	23.66	23.82
92	21.34	24.44	22.28	25.18	20.63	3.45	8.70

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

93	7.76	15.38	15.88	15.73	7.17	0.26	0.23
94	0.25	7.53	9.55	6.99	0.44	1.88	0.14
95	0.45	0.44	1.08	0.90	0.76	15.32	9.15
96	2.36	2.08	2.55	2.74	3.41	24.55	24.27
97	5.47	3.76	4.99	4.24	7.43	22.80	25.35
98	8.03	6.14	7.30	6.72	10.86	20.88	23.70
99	10.01	9.19	11.15	10.01	13.06	19.19	22.03
100	10.74	13.34	16.36	14.24	13.98	17.55	20.65
101	10.36	18.06	22.30	18.92	13.30	15.90	18.67
102	10.30	23.09	28.46	23.39	12.85	14.30	16.54
103	10.10	29.09	34.69	28.09	12.43	12.81	14.75
104	9.73	30.98	41.35	29.27	12.27	11.18	13.19
105	10.82	31.85	41.42	30.12	11.56	9.99	11.16
106	11.95	32.54	41.32	30.89	11.47	8.51	9.16
107	12.85	33.19	40.80	31.51	12.36	7.44	7.56
108	13.84	33.57	40.12	32.08	13.23	6.30	6.25
109	15.02	34.06	40.00	33.43	14.00	3.99	5.04
110	15.67	35.00	40.88	34.41	14.39	2.90	2.59
111	16.02	35.61	41.28	34.75	14.51	2.89	0.48
112	16.02	35.29	40.88	34.46	14.51	2.81	0.44
113	15.90	34.76	40.82	33.69	14.51	2.70	0.44
114	15.61	34.11	39.61	32.31	14.48	2.62	0.44
115	15.36	33.13	38.11	31.30	14.26	2.46	0.44
116	15.22	31.62	36.33	29.82	13.89	2.27	0.44
117	14.75	30.07	35.01	28.46	13.34	2.05	0.36
118	14.27	28.56	33.84	27.32	12.85	1.78	0.33
119	13.60	27.06	32.12	26.18	12.44	1.45	0.33
120	13.06	25.80	30.87	25.24	11.96	1.18	0.33
121	12.49	24.73	29.20	23.97	11.48	0.93	0.33
122	11.88	23.67	27.26	22.60	10.85	0.66	0.33
123	11.26	22.27	25.96	21.24	10.12	0.52	0.36
124	10.52	21.23	25.10	20.04	9.42	0.52	0.33
125	9.88	20.06	23.17	18.83	8.79	0.52	0.38
126	9.18	18.76	21.64	17.58	8.27	0.52	0.36
127	8.60	17.53	20.70	16.72	7.67	0.52	0.36
128	8.05	16.64	19.59	15.96	7.16	0.52	0.38
129	7.68	15.94	18.78	15.30	6.74	0.52	0.41
130	7.61	15.28	18.27	14.71	6.33	0.52	0.38
131	7.08	14.80	17.68	14.03	5.97	0.52	0.44
132	6.50	14.10	16.78	13.46	5.69	0.52	0.41
133	5.98	13.40	16.06	12.94	5.26	0.52	0.41
134	5.43	12.82	15.30	12.41	4.59	0.52	0.41
135	4.63	12.19	14.69	11.23	4.06	0.52	0.41
136	3.99	11.04	14.07	10.74	3.73	0.52	0.44
137	3.65	10.43	12.95	10.37	3.40	0.52	0.41
138	3.33	9.90	12.03	9.82	2.75	0.65	0.47
139	2.48	9.31	11.42	9.32	2.27	0.84	0.52
140	1.99	8.67	10.74	8.74	1.45	0.82	0.68
141	1.01	8.21	10.12	8.47	0.83	0.82	0.79
142	0.77	7.33	9.52	7.06	0.82	0.82	0.80
143	0.79	6.38	9.12	6.58	0.82	0.82	0.80
144	0.82	5.99	7.85	6.14	0.82	0.82	0.80
145	0.79	5.43	7.23	5.21	0.82	0.82	0.80
146	0.79	3.81	6.68	3.95	0.82	0.82	0.80
147	0.79	2.42	5.74	2.57	0.82	0.82	0.80
148	0.79	0.82	4.09	1.09	0.82	0.82	0.80



**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

149	0.79	0.79	2.53	0.96	0.82	0.82	0.80
150	0.79	0.79	0.89	0.91	0.82	0.82	0.80
151	0.79	0.79	0.82	0.90	0.82	0.82	0.80
152	0.79	0.79	0.82	0.90	0.82	0.82	0.80
153	0.79	0.79	0.82	0.88	0.82	0.82	0.80
154	0.79	0.80	0.82	0.88	0.82	0.82	0.80
155	0.79	0.82	0.82	0.85	0.82	0.82	0.80
156	0.79	0.85	0.82	0.85	0.82	0.82	0.80
157	0.79	0.82	0.82	0.85	0.82	0.82	0.80
158	0.79	0.88	0.82	0.85	0.82	0.82	0.80
159	0.79	0.85	0.82	0.85	0.82	0.82	0.80
160	0.79	0.88	0.82	0.85	0.82	0.82	0.80
161	0.79	0.88	0.82	0.85	0.82	0.82	0.80
162	0.79	0.88	0.82	0.85	0.82	0.82	0.80
163	0.85	0.90	0.82	0.85	0.82	0.82	0.80
164	0.85	0.96	0.82	0.85	0.82	0.85	0.80
165	0.96	1.01	0.82	0.85	0.82	0.90	0.80
166	1.01	1.04	0.87	0.85	0.87	0.93	0.80
167	1.04	1.10	0.93	0.85	0.93	0.95	0.82
168	1.12	1.10	0.90	0.85	0.93	0.98	0.85
169	1.18	1.15	0.90	0.85	0.93	0.96	0.93
170	1.26	1.12	0.90	0.85	0.98	0.98	1.04
171	1.26	1.15	0.93	0.85	0.96	1.04	1.07
172	1.26	1.20	0.98	0.90	0.96	1.04	1.18
173	1.23	1.18	1.12	0.88	1.07	1.04	1.18
174	1.23	1.18	1.12	0.93	1.07	1.09	1.23
175	1.26	1.18	1.12	0.96	1.15	1.17	1.23
176	1.20	1.18	1.12	1.04	1.18	1.17	1.23
177	1.20	1.15	1.18	1.04	1.18	1.15	1.23
178	1.20	1.15	1.15	1.04	1.18	1.20	1.23
179	1.20	1.15	1.12	1.04	1.18	1.17	1.23
180	1.23	1.23	1.23	1.23	1.23	1.23	1.23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 9 LW UV PPD 840.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	293.84	N.A.	13.20
0-30	628.18	N.A.	28.30
0-40	1014.11	N.A.	45.70
0-60	1687.64	N.A.	76.00
0-80	2081.03	N.A.	93.80
0-90	2152.73	N.A.	97.00
10-90	2077.72	N.A.	93.60
20-40	720.27	N.A.	32.50
20-50	1086.81	N.A.	49.00
40-70	919.14	N.A.	41.40
60-80	393.39	N.A.	17.70
70-80	147.77	N.A.	6.70
80-90	71.71	N.A.	3.20
90-110	34.35	N.A.	1.50
90-120	50.72	N.A.	2.30
90-130	59.79	N.A.	2.70
90-150	65.77	N.A.	3.00
90-180	66.53	N.A.	3.00
110-180	32.18	N.A.	1.50
0-180	2219.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.01
10-20	218.83
20-30	334.34
30-40	385.93
40-50	366.54
50-60	306.99
60-70	245.62
70-80	147.77
80-90	71.71
90-100	15.15
100-110	19.20
110-120	16.37
120-130	9.06
130-140	4.50
140-150	1.48
150-160	0.39
160-170	0.26
170-180	0.11

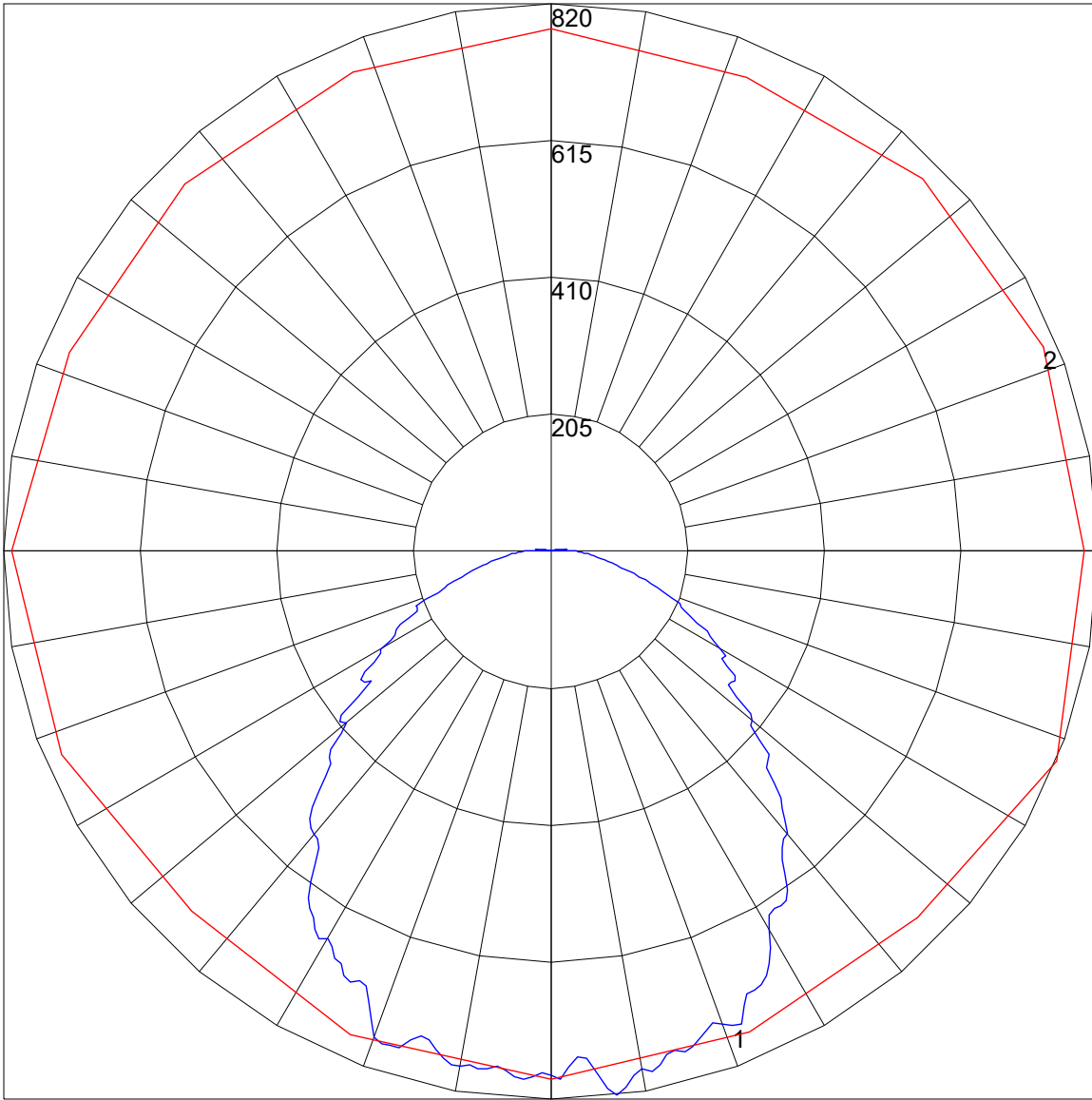
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPE 9 LW UV PPD 840.IES**

**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	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	90	83	77	95	88	81	76	84	78	74	80	75	72	76	73	70	67
3	90	79	71	64	87	77	70	64	74	67	62	71	65	61	68	63	59	57
4	82	70	62	55	80	69	61	54	66	59	53	63	57	52	61	55	51	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	49	45	43
6	70	57	48	42	68	56	47	41	54	46	41	52	45	40	50	44	40	37
7	65	52	43	37	63	51	42	37	49	42	36	47	41	36	46	40	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 820.33 Located At Horizontal Angle = 337.5, Vertical Angle = 7  
# 1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)