

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CSC3030-LED-P1R\_IESNA2002.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]  
 [TESTLAB] BEST TEST SERVICE SHENZHEN CO.,LTD  
 [TESTDATE] 26 October 2018  
 [ISSUEDATE] 2018-10-26  
 [NEARFIELD]  
 [LAMPPOSITION]  
 [OTHER] GO-R5000\_V2 SYSTEM  
 [MANUFAC] ADISION LIGHTING(HK),CO.,LIMITED  
 [LUMINAIRE] CSC3030-LED-P1R  
 [LAMP] CSC3030-LED-P1R

**CHARACTERISTICS**

Lumens Per Lamp	642.43 (1 lamp)
Total Lamp Lumens	642.43
Luminaire Lumens	642
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	9.653
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.12 m (Diameter)
Luminous Width (90-270)	0.12 m (Diameter)
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18175	17651	17307
55	17446	16754	16292
65	16722	15791	15128
75	16343	14912	13912
85	21448	18192	16357

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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>	224.68	224.68	224.68	224.68	224.68	224.68	224.68	224.68	224.68	224.68
<b>1</b>	224.74	224.71	224.65	224.47	224.53	224.39	224.45	224.42	224.53	224.56
<b>2</b>	224.71	224.62	224.42	224.26	224.26	224.09	224.20	224.15	224.23	224.37
<b>3</b>	224.51	224.42	224.27	223.95	223.97	223.71	223.77	223.77	223.82	224.05
<b>4</b>	224.30	224.15	223.86	223.56	223.54	223.22	223.21	223.27	223.41	223.67
<b>5</b>	224.01	223.78	223.35	222.98	222.97	222.62	222.67	222.73	222.84	223.13
<b>6</b>	223.60	223.27	222.83	222.44	222.33	221.98	221.97	222.06	222.17	222.58
<b>7</b>	223.05	222.69	222.13	221.71	221.62	221.15	221.20	221.23	221.43	221.92
<b>8</b>	222.57	221.99	221.46	220.98	220.76	220.24	220.37	220.45	220.56	221.14
<b>9</b>	221.83	221.29	220.67	220.10	219.90	219.38	219.39	219.44	219.67	220.27
<b>10</b>	221.06	220.45	219.68	219.14	218.90	218.34	218.37	218.40	218.64	219.37
<b>11</b>	220.17	219.45	218.67	218.07	217.74	217.29	217.23	217.26	217.51	218.29
<b>12</b>	219.21	218.40	217.62	216.96	216.55	216.07	216.01	216.06	216.40	217.15
<b>13</b>	218.15	217.34	216.42	215.70	215.33	214.73	214.64	214.68	215.08	215.95
<b>14</b>	216.98	216.11	215.12	214.29	214.01	213.36	213.24	213.34	213.74	214.58
<b>15</b>	215.75	214.88	213.81	212.89	212.63	211.88	211.78	211.88	212.34	213.17
<b>16</b>	214.33	213.42	212.35	211.35	211.12	210.32	210.22	210.26	210.77	211.74
<b>17</b>	213.00	212.03	210.90	209.81	209.45	208.70	208.62	208.71	209.19	210.13
<b>18</b>	211.49	210.47	209.28	208.14	207.83	206.95	206.83	206.96	207.52	208.49
<b>19</b>	209.92	208.85	207.59	206.40	206.03	205.17	205.05	205.17	205.74	206.74
<b>20</b>	208.26	207.07	205.84	204.64	204.21	203.32	203.14	203.31	203.91	204.97
<b>21</b>	206.52	205.25	203.90	202.69	202.34	201.39	201.21	201.35	201.91	203.05
<b>22</b>	204.66	203.38	202.02	200.67	200.27	199.38	199.25	199.39	199.89	201.08
<b>23</b>	202.79	201.45	200.04	198.66	198.29	197.25	197.12	197.22	197.87	199.05
<b>24</b>	200.83	199.46	197.96	196.58	196.11	195.16	194.98	195.14	195.75	197.03
<b>25</b>	198.76	197.39	195.74	194.33	193.89	192.94	192.70	192.87	193.47	194.84
<b>26</b>	196.68	195.24	193.56	192.11	191.65	190.65	190.43	190.59	191.25	192.65
<b>27</b>	194.52	193.04	191.30	189.79	189.37	188.33	188.05	188.23	188.92	190.31
<b>28</b>	192.22	190.67	188.97	187.37	186.93	185.92	185.67	185.81	186.56	188.00
<b>29</b>	189.94	188.37	186.55	184.99	184.52	183.42	183.16	183.30	184.13	185.59
<b>30</b>	187.47	185.87	184.02	182.40	182.02	180.88	180.62	180.73	181.58	183.07
<b>31</b>	185.04	183.40	181.58	179.81	179.44	178.31	178.03	178.23	178.96	180.47
<b>32</b>	182.49	180.91	179.06	177.28	176.81	175.67	175.35	175.57	176.43	177.93
<b>33</b>	179.94	178.29	176.41	174.54	174.22	173.04	172.72	173.04	173.80	175.33
<b>34</b>	177.31	175.62	173.71	171.83	171.49	170.17	169.89	170.17	170.98	172.56
<b>35</b>	174.66	172.86	170.94	169.06	168.60	167.29	167.05	167.31	168.17	169.79
<b>36</b>	171.90	170.10	168.14	166.18	165.71	164.42	164.22	164.45	165.36	167.01
<b>37</b>	169.09	167.33	165.25	163.35	162.80	161.56	161.28	161.57	162.41	164.07
<b>38</b>	166.29	164.50	162.42	160.49	159.91	158.60	158.36	158.58	159.57	161.21
<b>39</b>	163.46	161.58	159.52	157.50	156.92	155.66	155.38	155.64	156.57	158.26
<b>40</b>	160.50	158.61	156.49	154.50	153.90	152.64	152.37	152.70	153.59	155.38
<b>41</b>	157.58	155.65	153.56	151.51	150.85	149.59	149.32	149.58	150.56	152.30
<b>42</b>	154.57	152.64	150.48	148.41	147.79	146.53	146.23	146.52	147.56	149.28
<b>43</b>	151.61	149.60	147.43	145.33	144.76	143.41	143.12	143.44	144.47	146.25
<b>44</b>	148.52	146.53	144.33	142.21	141.64	140.32	139.94	140.26	141.35	143.10
<b>45</b>	145.41	143.46	141.22	139.06	138.47	137.14	136.82	137.13	138.18	139.99
<b>46</b>	142.25	140.24	138.05	135.89	135.28	133.94	133.55	133.95	135.04	136.81
<b>47</b>	139.08	137.12	134.86	132.68	132.03	130.70	130.37	130.73	131.85	133.66
<b>48</b>	135.95	133.96	131.70	129.50	128.83	127.47	127.15	127.53	128.61	130.45
<b>49</b>	132.79	130.70	128.40	126.20	125.59	124.22	123.84	124.23	125.42	127.24
<b>50</b>	129.57	127.47	125.20	123.00	122.35	121.02	120.67	121.04	122.15	124.05
<b>51</b>	126.27	124.20	121.89	119.67	119.05	117.67	117.33	117.74	118.85	120.74
<b>52</b>	122.96	120.94	118.68	116.40	115.72	114.36	114.01	114.38	115.56	117.50
<b>53</b>	119.79	117.68	115.40	113.13	112.40	111.04	110.70	111.10	112.27	114.20
<b>54</b>	116.51	114.41	112.01	109.78	109.05	107.74	107.36	107.77	108.90	110.90
<b>55</b>	113.22	111.10	108.73	106.51	105.73	104.41	104.04	104.40	105.62	107.60
<b>56</b>	109.82	107.80	105.36	103.12	102.40	101.07	100.64	101.07	102.32	104.28
<b>57</b>	106.57	104.43	102.08	99.83	99.08	97.76	97.29	97.69	99.01	100.99
<b>58</b>	103.21	101.15	98.78	96.49	95.70	94.36	93.89	94.31	95.61	97.62

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**CANDELA TABULATION - (Cont.)**

59	99.89	97.79	95.44	93.06	92.38	91.03	90.53	90.95	92.30	94.30
60	96.60	94.47	92.10	89.78	88.99	87.64	87.19	87.61	88.94	90.96
61	93.20	91.11	88.80	86.44	85.69	84.29	83.80	84.22	85.60	87.63
62	89.87	87.84	85.50	83.12	82.35	80.98	80.51	80.92	82.26	84.35
63	86.58	84.49	82.15	79.77	79.02	77.57	77.09	77.54	78.91	81.03
64	83.28	81.19	78.85	76.46	75.69	74.26	73.76	74.19	75.58	77.70
65	79.96	77.82	75.51	73.20	72.34	70.89	70.42	70.86	72.24	74.37
66	76.63	74.51	72.21	69.91	69.12	67.65	67.16	67.56	69.00	71.16
67	73.36	71.30	68.94	66.63	65.84	64.33	63.85	64.26	65.68	67.85
68	69.63	68.04	65.68	63.34	62.56	61.08	60.56	61.01	62.43	64.63
69	66.59	64.78	62.41	60.15	59.36	57.87	57.28	57.72	59.17	61.42
70	63.58	61.52	59.21	56.96	56.10	54.59	54.02	54.45	55.92	58.18
71	60.38	58.33	56.02	53.74	52.98	51.46	50.83	51.27	52.81	55.07
72	57.19	55.14	52.84	50.64	49.82	48.34	47.68	48.11	49.65	51.93
73	54.04	51.98	49.73	47.51	46.77	45.22	44.55	45.01	46.57	48.86
74	50.98	48.91	46.70	44.52	43.74	42.17	41.47	41.89	43.50	45.82
75	47.86	45.86	43.67	41.54	40.74	39.15	38.46	38.87	40.50	42.86
76	44.83	42.89	40.73	38.61	37.85	36.25	35.50	35.95	37.58	39.96
77	41.89	39.95	37.83	35.77	34.99	33.42	32.64	33.06	34.68	37.09
78	38.97	37.11	35.02	32.99	32.27	30.66	29.86	30.30	31.94	34.37
79	36.18	34.32	32.28	30.34	29.60	27.99	27.15	27.58	29.26	31.67
80	33.45	31.61	29.60	27.73	27.07	25.42	24.54	24.97	26.65	29.11
81	30.81	29.00	27.07	25.28	24.65	22.97	22.08	22.46	24.17	26.67
82	28.21	26.47	24.60	22.88	22.30	20.60	19.78	20.11	21.78	24.32
83	25.74	24.07	22.30	20.63	20.11	18.58	17.48	17.90	19.62	22.09
84	23.40	21.79	20.07	18.50	18.12	16.56	15.19	15.69	17.45	19.95
85	21.15	19.61	17.94	16.46	16.13	14.55	13.14	13.49	15.30	18.04
86	19.00	17.53	15.96	14.56	14.14	12.84	11.20	11.54	13.51	16.13
87	16.98	15.56	14.09	12.77	12.40	11.25	9.44	9.71	11.89	14.23
88	15.08	13.74	12.33	11.10	10.81	9.81	7.96	8.08	10.42	12.56
89	13.28	12.06	10.72	9.57	9.28	8.44	6.66	6.73	9.03	10.98
90	11.63	10.47	9.21	8.16	7.90	7.19	5.50	5.54	7.77	9.52
91	10.08	9.01	7.84	6.94	6.64	6.06	4.49	4.50	6.64	8.17
92	8.64	7.80	6.67	5.72	5.52	5.03	3.61	3.59	5.58	6.92
93	7.47	6.59	5.50	4.71	4.54	4.13	2.83	2.81	4.65	5.78
94	6.31	5.39	4.53	3.81	3.67	3.32	2.21	2.09	3.82	4.79
95	5.15	4.44	3.67	3.00	2.89	2.60	1.69	1.55	3.08	3.90
96	4.22	3.58	2.89	2.30	2.20	1.99	1.28	1.15	2.41	3.11
97	3.40	2.82	2.22	1.68	1.61	1.49	0.98	0.87	1.85	2.42
98	2.68	2.15	1.64	1.17	1.13	1.07	0.75	0.67	1.38	1.84
99	2.06	1.59	1.18	0.77	0.75	0.74	0.54	0.54	0.99	1.32
100	1.54	1.14	0.82	0.50	0.50	0.53	0.41	0.45	0.68	0.93
101	1.12	0.78	0.57	0.36	0.42	0.46	0.37	0.41	0.48	0.61
102	0.81	0.53	0.45	0.38	0.46	0.48	0.35	0.40	0.42	0.43
103	0.60	0.41	0.46	0.41	0.45	0.47	0.43	0.42	0.47	0.42
104	0.54	0.42	0.47	0.46	0.50	0.55	0.48	0.49	0.51	0.47
105	0.56	0.45	0.50	0.51	0.55	0.62	0.50	0.56	0.54	0.51
106	0.60	0.49	0.54	0.56	0.61	0.68	0.53	0.61	0.55	0.56
107	0.65	0.55	0.58	0.60	0.67	0.74	0.50	0.66	0.54	0.61
108	0.71	0.61	0.64	0.65	0.70	0.77	0.48	0.70	0.55	0.67
109	0.78	0.68	0.71	0.70	0.87	0.82	0.49	0.71	0.58	0.74
110	0.87	0.75	0.82	0.77	1.57	0.93	0.54	0.66	0.67	0.81
111	1.01	0.82	1.04	0.84	1.40	0.85	0.60	0.64	0.76	0.96
112	1.17	0.90	1.79	0.87	1.22	0.71	0.64	0.66	0.74	1.16
113	1.28	1.01	1.62	0.92	1.01	0.62	0.65	0.69	0.71	1.04
114	1.22	1.58	1.06	0.98	1.05	0.62	0.65	0.76	0.72	1.21
115	1.20	2.60	1.07	1.05	1.08	0.61	0.69	0.85	0.73	2.78
116	1.21	1.30	1.11	1.10	1.11	0.60	0.78	0.90	0.76	2.10
117	1.24	1.25	1.14	1.17	1.14	0.61	0.87	0.93	0.81	1.26
118	1.27	1.31	1.17	1.28	1.16	0.68	0.91	0.94	0.88	1.28
119	1.32	1.50	1.18	1.35	1.27	0.75	0.94	0.95	0.95	1.32

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120	1.41	2.30	1.83	1.42	3.41	0.81	0.98	0.97	1.06	1.36
121	1.58	2.50	1.69	1.50	1.96	0.91	1.03	1.01	1.10	1.37
122	1.94	2.77	1.36	1.63	1.33	1.01	1.10	1.04	1.07	1.38
123	1.89	2.86	1.36	1.86	1.34	1.18	1.20	1.09	1.12	1.42
124	1.72	2.18	1.45	2.08	1.41	1.86	1.32	1.14	1.19	1.44
125	1.66	1.86	2.04	2.15	1.71	2.14	1.43	1.18	1.37	1.48
126	1.66	1.74	2.02	2.61	2.17	1.86	1.53	1.22	1.78	1.61
127	1.69	1.78	1.73	3.67	2.24	1.75	1.61	1.26	2.14	2.01
128	1.71	1.82	1.53	3.32	1.86	1.77	1.68	1.29	1.92	2.37
129	1.73	1.84	1.55	2.23	1.78	1.80	1.74	1.34	1.63	2.16
130	1.75	1.84	1.58	1.77	1.78	1.82	1.78	1.38	1.49	1.86
131	1.78	1.85	1.62	1.73	1.77	1.84	1.81	1.43	1.48	1.63
132	1.81	1.89	1.66	1.73	1.75	1.89	1.83	1.47	1.51	1.53
133	1.84	2.00	1.69	1.74	1.73	1.97	1.87	1.52	1.56	1.47
134	1.87	2.11	1.72	1.74	1.71	2.05	1.91	1.56	1.61	1.43
135	1.90	2.19	1.76	1.73	1.69	2.09	1.96	1.60	1.66	1.41
136	1.93	2.21	1.80	1.71	1.69	2.10	2.00	1.64	1.71	1.41
137	1.95	2.16	1.82	1.71	1.69	2.02	1.99	1.68	1.76	1.43
138	1.98	2.08	1.84	1.74	1.74	1.95	1.97	1.73	1.81	1.47
139	2.01	2.07	1.84	1.74	1.83	1.94	1.97	1.79	1.85	1.53
140	2.05	2.08	1.85	1.69	1.93	1.93	1.97	1.86	1.88	1.63
141	2.08	2.08	1.87	1.65	2.05	1.88	1.98	1.93	1.92	1.79
142	2.11	2.09	1.90	1.58	2.18	1.79	1.99	2.00	1.96	1.88
143	2.13	2.08	1.89	1.51	2.26	1.70	2.01	2.07	1.99	1.92
144	2.16	2.08	1.86	1.43	2.30	1.66	2.03	2.15	2.02	1.87
145	2.17	2.08	1.84	1.36	2.17	1.66	2.05	2.20	2.05	1.77
146	2.19	2.09	1.78	1.33	1.97	1.69	2.08	2.24	2.07	1.72
147	2.20	2.10	1.72	1.31	1.78	1.74	2.12	2.27	2.10	1.69
148	2.21	2.10	1.69	1.29	1.77	1.82	2.17	2.28	2.12	1.66
149	2.23	2.11	1.70	1.31	2.07	1.90	2.22	2.30	2.15	1.65
150	2.24	2.13	1.77	1.41	2.28	1.98	2.25	2.31	2.17	1.67
151	2.25	2.16	1.88	1.54	2.49	2.05	2.29	2.33	2.19	1.69
152	2.27	2.18	1.95	1.68	2.59	2.12	2.31	2.36	2.22	1.72
153	2.29	2.20	2.02	1.80	2.61	2.20	2.33	2.37	2.24	1.75
154	2.32	2.23	2.07	1.90	2.58	2.30	2.31	2.38	2.27	1.78
155	2.34	2.25	2.10	1.96	2.48	2.40	2.31	2.39	2.29	1.81
156	2.35	2.27	2.13	1.98	2.43	2.48	2.29	2.38	2.30	1.85
157	2.36	2.28	2.15	2.03	2.41	2.52	2.28	2.38	2.32	1.87
158	2.35	2.29	2.17	2.07	2.40	2.55	2.28	2.36	2.33	1.89
159	2.35	2.29	2.19	2.11	2.38	2.57	2.27	2.34	2.34	1.90
160	2.35	2.29	2.20	2.13	2.35	2.56	2.27	2.30	2.34	1.91
161	2.35	2.29	2.21	2.16	2.32	2.53	2.25	2.26	2.34	1.92
162	2.35	2.28	2.22	2.19	2.30	2.50	2.24	2.22	2.34	1.93
163	2.34	2.27	2.21	2.20	2.29	2.47	2.22	2.18	2.33	1.95
164	2.33	2.26	2.21	2.22	2.29	2.44	2.18	2.14	2.32	1.95
165	2.32	2.25	2.19	2.24	2.30	2.42	2.15	2.11	2.31	1.94
166	2.31	2.23	2.18	2.24	2.31	2.41	2.13	2.09	2.29	2.05
167	2.30	2.20	2.18	2.23	2.33	2.40	2.12	2.10	2.29	2.11
168	2.29	2.17	2.16	2.20	2.34	2.39	2.10	2.09	2.32	2.19
169	2.28	2.13	2.14	2.15	2.34	2.38	2.08	2.04	2.33	2.27
170	2.27	2.08	2.12	2.11	2.28	2.31	2.07	2.08	2.32	2.36
171	2.27	2.03	2.08	2.08	2.21	2.22	2.03	2.17	2.14	2.42
172	2.29	1.99	2.03	2.01	2.27	2.27	2.02	2.16	1.96	2.44
173	2.34	2.01	1.98	1.96	2.30	2.31	2.13	1.96	2.04	2.44
174	2.39	2.05	1.93	1.91	2.32	2.31	2.12	1.73	2.19	2.28
175	2.16	1.91	1.84	1.86	2.28	2.27	2.04	1.70	2.05	1.57
176	1.66	1.75	1.79	1.75	1.43	1.46	1.69	1.56	1.77	1.27
177	1.12	1.54	1.53	1.27	1.20	1.23	1.12	1.30	0.51	1.04
178	0.63	0.37	0.65	1.05	1.06	1.00	0.64	0.30	0.04	0.42
179	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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	224.68	224.68	224.68	224.68	224.68	224.68	224.68
1	224.59	224.74	224.68	224.75	224.83	224.77	224.74
2	224.47	224.64	224.65	224.72	224.83	224.86	224.71
3	224.26	224.52	224.59	224.63	224.80	224.72	224.51
4	223.88	224.20	224.28	224.46	224.66	224.54	224.30
5	223.57	223.93	224.04	224.16	224.33	224.33	224.01
6	223.05	223.46	223.61	223.79	224.02	223.90	223.60
7	222.48	222.89	223.12	223.33	223.56	223.46	223.05
8	221.79	222.35	222.54	222.76	223.04	222.89	222.57
9	220.95	221.56	221.82	222.17	222.28	222.22	221.83
10	220.11	220.73	221.10	221.43	221.65	221.50	221.06
11	219.09	219.88	220.23	220.57	220.85	220.67	220.17
12	218.06	218.91	219.28	219.65	219.87	219.69	219.21
13	216.88	217.76	218.22	218.66	218.96	218.71	218.15
14	215.60	216.60	217.10	217.53	217.83	217.55	216.98
15	214.25	215.42	215.82	216.40	216.63	216.42	215.75
16	212.88	214.08	214.37	215.14	215.38	215.10	214.33
17	211.34	212.65	213.08	213.77	214.00	213.69	213.00
18	209.81	211.10	211.54	212.25	212.63	212.27	211.49
19	208.14	209.49	209.99	210.73	211.05	210.70	209.92
20	206.45	207.83	208.40	209.08	209.48	209.10	208.26
21	204.62	206.08	206.63	207.36	207.75	207.40	206.52
22	202.71	204.23	204.81	205.62	206.03	205.62	204.66
23	200.74	202.35	202.94	203.74	204.15	203.73	202.79
24	198.72	200.38	200.94	201.82	202.17	201.83	200.83
25	196.60	198.24	198.91	199.83	200.19	199.76	198.76
26	194.40	196.13	196.83	197.84	198.14	197.69	196.68
27	192.13	193.94	194.65	195.71	195.96	195.59	194.52
28	189.82	191.69	192.44	193.44	193.71	193.31	192.22
29	187.44	189.34	190.15	191.22	191.54	191.04	189.94
30	185.01	186.99	187.66	188.86	189.13	188.63	187.47
31	182.46	184.53	185.27	186.41	186.74	186.24	185.04
32	179.91	181.98	182.82	184.02	184.29	183.78	182.49
33	177.40	179.47	180.22	181.43	181.77	181.22	179.94
34	174.68	176.88	177.65	178.76	179.14	178.66	177.31
35	171.88	174.27	174.95	176.17	176.52	175.96	174.66
36	169.09	171.44	172.29	173.49	173.89	173.33	171.90
37	166.29	168.61	169.50	170.71	171.14	170.54	169.09
38	163.43	165.77	166.72	167.96	168.33	167.80	166.29
39	160.47	162.89	163.82	165.12	165.47	164.91	163.46
40	157.60	159.98	160.89	162.20	162.55	161.98	160.50
41	154.61	157.05	158.01	159.34	159.72	159.06	157.58
42	151.58	154.06	154.99	156.35	156.69	156.06	154.57
43	148.52	151.00	152.10	153.40	153.77	153.10	151.61
44	145.41	147.95	148.93	150.32	150.70	150.05	148.52
45	142.35	144.86	145.85	147.25	147.62	146.97	145.41
46	139.18	141.79	142.77	144.15	144.53	143.87	142.25
47	136.04	138.60	139.58	141.04	141.42	140.68	139.08
48	132.84	135.47	136.52	137.93	138.30	137.61	135.95
49	129.65	132.25	133.25	134.69	135.11	134.42	132.79
50	126.45	129.04	130.06	131.48	131.90	131.22	129.57
51	123.13	125.76	126.80	128.24	128.67	127.90	126.27
52	119.90	122.48	123.59	124.99	125.36	124.69	122.96
53	116.62	119.24	120.32	121.76	122.12	121.46	119.79
54	113.34	115.96	117.02	118.45	118.84	118.17	116.51
55	110.02	112.66	113.81	115.20	115.58	114.91	113.22
56	106.72	109.35	110.40	111.86	112.26	111.53	109.82
57	103.43	106.04	107.12	108.56	108.88	108.17	106.57

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**CANDELA TABULATION - (Cont.)**

58	100.07	102.65	103.81	105.24	105.60	104.86	103.21
59	96.74	99.38	100.45	101.94	102.27	101.52	99.89
60	93.39	96.04	97.10	98.61	98.97	98.24	96.60
61	90.06	92.68	93.77	95.27	95.60	94.86	93.20
62	86.74	89.38	90.42	91.91	92.30	91.54	89.87
63	83.40	86.00	87.11	88.56	88.94	88.19	86.58
64	80.13	82.69	83.78	85.20	85.62	84.90	83.28
65	76.77	79.36	80.48	81.89	82.25	81.62	79.96
66	73.52	76.07	77.10	78.53	78.95	78.26	76.63
67	70.26	72.79	73.86	75.29	75.64	75.00	73.36
68	67.00	69.48	70.58	71.97	72.34	71.68	69.63
69	63.79	66.29	67.33	68.71	69.09	68.43	66.59
70	60.55	63.00	64.09	65.46	65.85	65.19	63.58
71	57.39	59.83	60.85	62.21	62.60	61.94	60.38
72	54.25	56.63	57.67	59.01	59.41	58.76	57.19
73	51.15	53.53	54.50	55.83	56.20	55.56	54.04
74	48.10	50.44	51.42	52.75	53.10	52.48	50.98
75	45.09	47.34	48.32	49.60	50.00	49.35	47.86
76	42.12	44.34	45.34	46.63	46.97	46.33	44.83
77	39.26	41.40	42.36	43.63	43.95	43.34	41.89
78	36.46	38.54	39.50	40.70	41.04	40.43	38.97
79	33.76	35.77	36.68	37.85	38.19	37.58	36.18
80	31.15	33.10	33.90	35.05	35.40	34.80	33.45
81	28.61	30.47	31.29	32.39	32.69	32.13	30.81
82	26.16	27.95	28.73	29.78	30.06	29.50	28.21
83	23.86	25.54	26.30	27.31	27.56	27.02	25.74
84	21.61	23.21	23.94	24.89	25.16	24.62	23.40
85	19.59	21.03	21.69	22.58	22.82	22.29	21.15
86	17.58	19.03	19.55	20.40	20.62	20.11	19.00
87	15.57	17.04	17.51	18.32	18.54	18.02	16.98
88	13.78	15.05	15.61	16.36	16.53	16.07	15.08
89	12.10	13.29	13.82	14.52	14.67	14.24	13.28
90	10.53	11.64	12.16	12.80	12.91	12.50	11.63
91	9.10	10.10	10.58	11.17	11.28	10.90	10.08
92	7.76	8.69	9.12	9.64	9.75	9.38	8.64
93	6.57	7.39	7.80	8.27	8.34	8.02	7.47
94	5.48	6.23	6.65	7.13	7.21	6.87	6.31
95	4.53	5.19	5.51	6.00	6.08	5.73	5.15
96	3.69	4.27	4.56	4.87	4.96	4.75	4.22
97	2.93	3.46	3.70	3.98	4.06	3.88	3.40
98	2.28	2.73	2.93	3.16	3.26	3.11	2.68
99	1.72	2.10	2.26	2.47	2.55	2.43	2.06
100	1.26	1.55	1.69	1.87	1.95	1.86	1.54
101	0.89	1.10	1.22	1.36	1.44	1.37	1.12
102	0.62	0.76	0.84	0.96	1.03	0.97	0.81
103	0.47	0.51	0.59	0.66	0.73	0.67	0.60
104	0.49	0.42	0.47	0.48	0.54	0.50	0.54
105	0.53	0.46	0.49	0.48	0.52	0.52	0.56
106	0.57	0.52	0.52	0.53	0.55	0.58	0.60
107	0.61	0.56	0.56	0.59	0.58	0.64	0.65
108	0.67	0.61	0.62	0.65	0.62	0.70	0.71
109	0.76	0.71	0.68	0.70	0.66	0.77	0.78
110	0.99	0.83	0.76	0.75	0.70	0.83	0.87
111	1.51	0.87	0.87	0.80	0.75	0.90	1.01
112	2.14	1.30	1.17	0.85	0.80	0.97	1.17
113	1.75	1.58	1.72	1.00	0.86	1.04	1.28
114	1.24	1.23	1.74	1.20	0.92	1.11	1.22
115	1.13	1.02	1.22	1.04	0.96	1.17	1.20
116	1.13	1.04	1.14	1.17	1.00	1.21	1.21
117	1.13	1.10	1.17	2.67	1.04	1.24	1.24
118	1.15	1.15	1.18	2.05	1.08	1.27	1.27

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

119	1.17	1.21	1.23	1.31	1.11	1.31	1.32
120	1.21	1.32	1.28	1.24	1.15	1.34	1.41
121	1.24	2.44	1.30	1.27	1.18	1.38	1.58
122	1.39	1.46	1.33	1.31	1.20	1.42	1.94
123	1.27	1.42	2.37	1.36	1.23	1.47	1.89
124	1.27	1.44	2.69	1.41	1.26	1.52	1.72
125	1.27	1.45	1.53	1.48	1.29	1.58	1.66
126	1.29	1.47	1.40	1.58	1.32	1.63	1.66
127	1.30	1.52	1.39	1.73	1.36	1.66	1.69
128	1.32	1.58	1.42	1.65	1.40	1.70	1.71
129	1.33	1.93	1.54	1.55	1.44	1.72	1.73
130	1.34	1.83	1.64	1.52	1.47	1.74	1.75
131	1.33	1.59	1.53	1.48	1.49	1.77	1.78
132	1.32	1.48	1.44	1.42	1.50	1.81	1.81
133	1.32	1.45	1.44	1.39	1.52	1.85	1.84
134	1.33	1.45	1.45	1.35	1.54	1.89	1.87
135	1.34	1.45	1.45	1.33	1.57	1.93	1.90
136	1.35	1.47	1.44	1.31	1.61	1.96	1.93
137	1.36	1.48	1.44	1.27	1.63	1.98	1.95
138	1.37	1.48	1.43	1.26	1.66	2.00	1.98
139	1.39	1.47	1.43	1.25	1.68	2.02	2.01
140	1.41	1.45	1.42	1.24	1.70	2.04	2.05
141	1.43	1.44	1.42	1.24	1.72	2.06	2.08
142	1.46	1.43	1.41	1.24	1.73	2.09	2.11
143	1.48	1.41	1.41	1.24	1.73	2.13	2.13
144	1.50	1.41	1.42	1.25	1.73	2.17	2.16
145	1.52	1.41	1.43	1.26	1.73	2.21	2.17
146	1.53	1.42	1.43	1.28	1.73	2.25	2.19
147	1.55	1.42	1.43	1.30	1.73	2.27	2.20
148	1.58	1.44	1.44	1.33	1.74	2.27	2.21
149	1.61	1.45	1.44	1.36	1.76	2.27	2.23
150	1.61	1.46	1.45	1.40	1.77	2.28	2.24
151	1.61	1.47	1.46	1.45	1.79	2.29	2.25
152	1.63	1.49	1.49	1.49	1.81	2.29	2.27
153	1.66	1.52	1.51	1.53	1.83	2.29	2.29
154	1.69	1.55	1.52	1.57	1.84	2.30	2.32
155	1.72	1.58	1.52	1.61	1.84	2.31	2.34
156	1.77	1.60	1.53	1.64	1.85	2.33	2.35
157	1.82	1.62	1.55	1.67	1.85	2.35	2.36
158	1.88	1.65	1.58	1.71	1.86	2.37	2.35
159	1.94	1.68	1.60	1.75	1.87	2.39	2.35
160	2.00	1.71	1.64	1.78	1.88	2.41	2.35
161	2.06	1.73	1.67	1.81	1.88	2.43	2.35
162	2.13	1.76	1.70	1.84	1.88	2.45	2.35
163	2.19	1.79	1.73	1.86	1.89	2.48	2.34
164	2.23	1.83	1.76	1.88	1.90	2.52	2.33
165	2.27	1.85	1.79	1.90	1.91	2.53	2.32
166	2.26	1.88	1.81	1.91	1.93	2.55	2.31
167	2.16	1.90	1.84	1.90	1.96	2.56	2.30
168	2.05	1.92	1.86	1.90	2.05	2.58	2.29
169	2.05	1.95	1.88	1.89	2.12	2.60	2.28
170	2.20	2.00	1.90	1.88	2.19	2.62	2.27
171	2.28	2.04	1.90	1.86	2.27	2.64	2.27
172	2.28	1.96	1.91	1.84	2.34	2.65	2.29
173	2.27	1.93	1.90	1.85	2.41	2.64	2.34
174	2.22	1.90	1.89	2.05	2.38	2.62	2.39
175	2.01	1.67	1.83	1.91	2.21	2.50	2.16
176	1.40	1.34	1.67	1.70	1.48	1.79	1.66
177	1.19	1.17	1.36	1.16	1.02	0.71	1.12
178	0.70	1.00	0.32	0.23	0.49	0.54	0.63
179	0.00	0.00	0.00	0.00	0.01	0.01	0.01

CANDELA TABULATION - (Cont.)

180	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	81.60	12.70	12.70
0-30	172.02	26.80	26.80
0-40	279.33	43.50	43.50
0-60	486.82	75.80	75.80
0-80	609.39	94.90	94.90
0-90	630.09	98.10	98.10
10-90	608.87	94.80	94.80
20-40	197.73	30.80	30.80
20-50	307.25	47.80	47.80
40-70	283.02	44.10	44.10
60-80	122.57	19.10	19.10
70-80	47.05	7.30	7.30
80-90	20.70	3.20	3.20
90-110	5.62	0.90	0.90
90-120	6.72	1.00	1.00
90-130	8.17	1.30	1.30
90-150	10.61	1.70	1.70
90-180	12.34	1.90	1.90
110-180	6.72	1.00	1.00
0-180	642.43	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	21.22
10-20	60.38
20-30	90.42
30-40	107.31
40-50	109.52
50-60	97.97
60-70	75.53
70-80	47.05
80-90	20.70
90-100	4.94
100-110	0.68
110-120	1.10
120-130	1.44
130-140	1.30
140-150	1.14
150-160	0.94
160-170	0.61
170-180	0.18

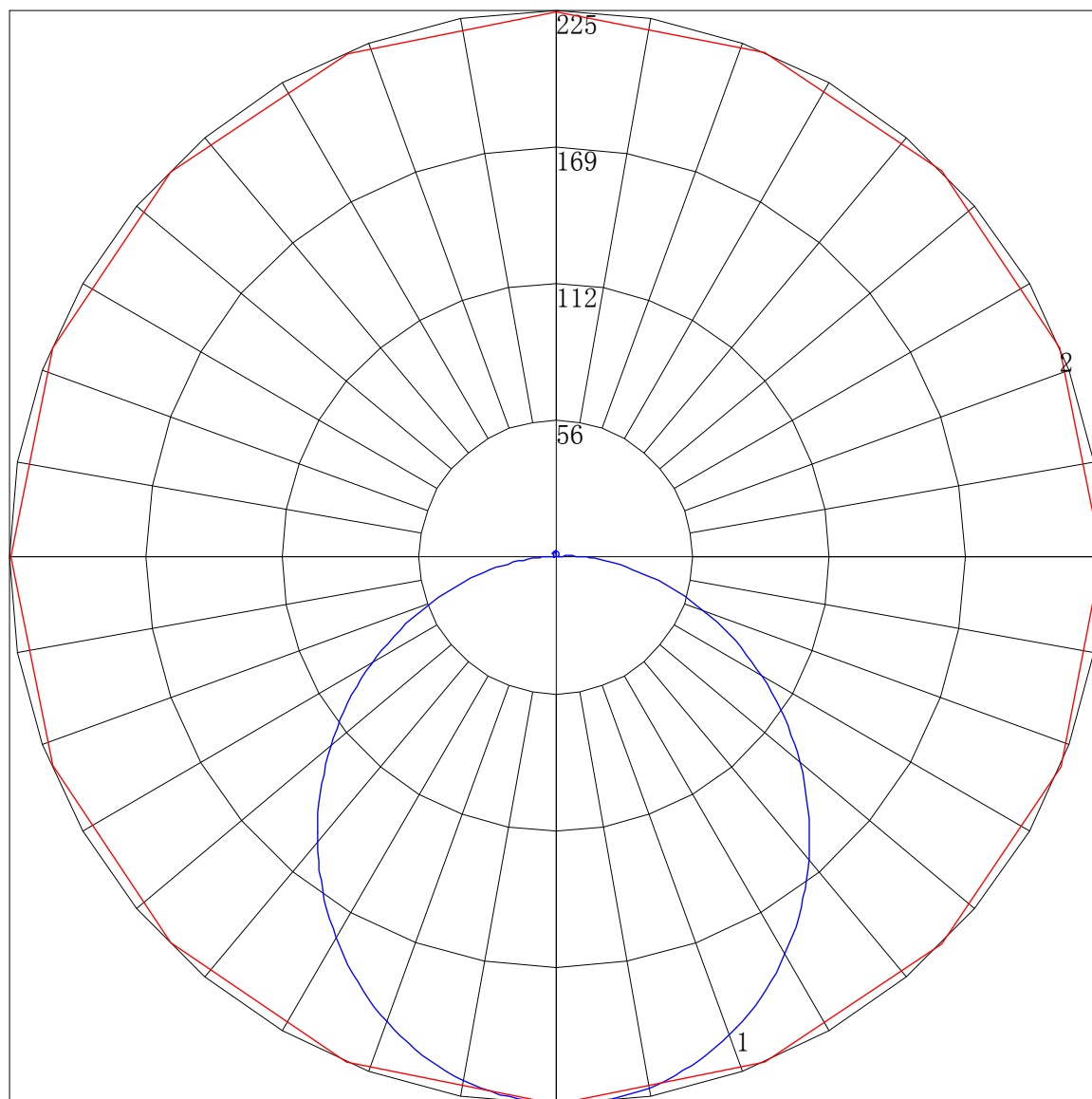
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	89	86	87	85	83	81	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	68	63	59	56	56
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	36	36
7	64	51	42	36	62	50	41	35	48	41	35	46	40	35	45	39	34	32	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	30	25	23	23

POLAR GRAPH



Maximum Candela = 224.86 Located At Horizontal Angle = 337.5, Vertical Angle = 2

# 1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)