



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L15-840-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX\_EM MODE ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12316380.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 26-JAN-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6CR-TL-L15-840-EM10W-xxx-DIM-UNV-OM-CS-xx(EMERGENCY MODE)  
 [LUMINAIRE] 6" DIA SURFACE CYLINDER  
 [LAMP] One white LED  
 [BALLAST] Philips XI025C070V054DSM5  
 [OTHER] 25.3 C, 119.967 V, 0.166154 A, 19.8249 W, 0.994578 PF, 59.9698  
 [MORE] Hz  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1058
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 ft (Diameter)
Luminous Width (90-270)	0.38 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2627	2627	2627
55	763	763	763
65	268	268	268
75	119	119	119
85	59	59	59

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## CANDELA TABULATION

	<u>0</u>
0.0	2140.838
0.5	2142.424
1.0	2148.765
1.5	2154.578
2.0	2167.790
2.5	2176.246
3.0	2177.831
3.5	2178.360
4.0	2166.205
4.5	2149.822
5.0	2118.642
5.5	2079.007
6.0	2034.615
6.5	1984.939
7.0	1931.035
7.5	1875.017
8.0	1817.414
8.5	1760.339
9.0	1704.321
9.5	1649.888
10.0	1598.098
10.5	1549.479
11.0	1504.030
11.5	1461.224
12.0	1420.531
12.5	1382.482
13.0	1346.545
13.5	1312.195
14.0	1279.430
14.5	1249.307
15.0	1221.826
15.5	1197.516
16.0	1177.435
16.5	1159.467
17.0	1142.555
17.5	1127.758
18.0	1114.546
18.5	1103.449
19.0	1095.521
19.5	1088.651
20.0	1082.838
20.5	1075.968
21.0	1069.098
21.5	1061.699
22.0	1053.772
22.5	1043.731
23.0	1031.576
23.5	1016.779
24.0	998.283
24.5	973.973
25.0	945.964
25.5	916.370
26.0	887.304
26.5	855.067

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6CR-TL-L15-840-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX\_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

<b>27.0</b>	821.245
<b>27.5</b>	782.666
<b>28.0</b>	738.803
<b>28.5</b>	690.712
<b>29.0</b>	640.507
<b>29.5</b>	589.246
<b>30.0</b>	534.813
<b>30.5</b>	478.425
<b>31.0</b>	419.395
<b>31.5</b>	360.576
<b>32.0</b>	304.030
<b>32.5</b>	251.130
<b>33.0</b>	205.100
<b>33.5</b>	165.834
<b>34.0</b>	132.752
<b>34.5</b>	105.272
<b>35.0</b>	82.970
<b>35.5</b>	66.165
<b>36.0</b>	55.384
<b>36.5</b>	49.729
<b>37.0</b>	46.347
<b>37.5</b>	43.388
<b>38.0</b>	40.798
<b>38.5</b>	38.420
<b>39.0</b>	36.253
<b>39.5</b>	34.298
<b>40.0</b>	32.448
<b>40.5</b>	30.704
<b>41.0</b>	29.066
<b>41.5</b>	27.586
<b>42.0</b>	26.159
<b>42.5</b>	24.838
<b>43.0</b>	23.517
<b>43.5</b>	22.354
<b>44.0</b>	21.192
<b>44.5</b>	20.082
<b>45.0</b>	19.078
<b>45.5</b>	18.074
<b>46.0</b>	17.070
<b>46.5</b>	16.118
<b>47.0</b>	15.114
<b>47.5</b>	14.163
<b>48.0</b>	13.265
<b>48.5</b>	12.419
<b>49.0</b>	11.574
<b>49.5</b>	10.728
<b>50.0</b>	9.882
<b>50.5</b>	9.090
<b>51.0</b>	8.403
<b>51.5</b>	7.769
<b>52.0</b>	7.134
<b>52.5</b>	6.606
<b>53.0</b>	6.077
<b>53.5</b>	5.655
<b>54.0</b>	5.232
<b>54.5</b>	4.809

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55.0	4.492
55.5	4.175
56.0	3.858
56.5	3.594
57.0	3.329
57.5	3.118
58.0	2.907
58.5	2.695
59.0	2.537
59.5	2.378
60.0	2.220
60.5	2.061
61.0	1.955
61.5	1.797
62.0	1.691
62.5	1.585
63.0	1.480
63.5	1.427
64.0	1.321
64.5	1.215
65.0	1.163
65.5	1.110
66.0	1.004
66.5	0.951
67.0	0.898
67.5	0.846
68.0	0.793
68.5	0.740
69.0	0.687
69.5	0.634
70.0	0.581
70.5	0.581
71.0	0.528
71.5	0.476
72.0	0.423
72.5	0.423
73.0	0.370
73.5	0.370
74.0	0.317
74.5	0.317
75.0	0.317
75.5	0.264
76.0	0.264
76.5	0.211
77.0	0.211
77.5	0.211
78.0	0.159
78.5	0.159
79.0	0.159
79.5	0.159
80.0	0.106
80.5	0.106
81.0	0.106
81.5	0.106
82.0	0.106
82.5	0.106

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6CR-TL-L15-840-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX\_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

83.0	0.106
83.5	0.053
84.0	0.053
84.5	0.053
85.0	0.053
85.5	0.053
86.0	0.053
86.5	0.053
87.0	0.053
87.5	0.053
88.0	0.000
88.5	0.000
89.0	0.000
89.5	0.000
90.0	0.000
90.5	0.000
91.0	0.000
91.5	0.000
92.0	0.000
92.5	0.000
93.0	0.000
93.5	0.000
94.0	0.000
94.5	0.000
95.0	0.000
95.5	0.000
96.0	0.000
96.5	0.000
97.0	0.000
97.5	0.000
98.0	0.000
98.5	0.000
99.0	0.000
99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
102.0	0.000
102.5	0.000
103.0	0.000
103.5	0.000
104.0	0.000
104.5	0.000
105.0	0.000
105.5	0.000
106.0	0.000
106.5	0.000
107.0	0.000
107.5	0.000
108.0	0.000
108.5	0.000
109.0	0.000
109.5	0.000
110.0	0.000
110.5	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6CR-TL-L15-840-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX\_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

111.0	0.000
111.5	0.000
112.0	0.000
112.5	0.000
113.0	0.000
113.5	0.000
114.0	0.000
114.5	0.000
115.0	0.000
115.5	0.000
116.0	0.000
116.5	0.000
117.0	0.000
117.5	0.000
118.0	0.000
118.5	0.000
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
134.0	0.000
134.5	0.000
135.0	0.000
135.5	0.000
136.0	0.000
136.5	0.000
137.0	0.000
137.5	0.000
138.0	0.000
138.5	0.000

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139.0	0.000
139.5	0.000
140.0	0.000
140.5	0.000
141.0	0.000
141.5	0.000
142.0	0.000
142.5	0.000
143.0	0.000
143.5	0.000
144.0	0.000
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
160.5	0.000
161.0	0.000
161.5	0.000
162.0	0.000
162.5	0.000
163.0	0.000
163.5	0.000
164.0	0.000
164.5	0.000
165.0	0.000
165.5	0.000
166.0	0.000
166.5	0.000

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**CANDELA TABULATION - (Cont.)**

167.0	0.000
167.5	0.000
168.0	0.000
168.5	0.000
169.0	0.000
169.5	0.000
170.0	0.000
170.5	0.000
171.0	0.000
171.5	0.000
172.0	0.000
172.5	0.000
173.0	0.000
173.5	0.000
174.0	0.000
174.5	0.000
175.0	0.000
175.5	0.000
176.0	0.000
176.5	0.000
177.0	0.000
177.5	0.000
178.0	0.000
178.5	0.000
179.0	0.000
179.5	0.000
180.0	0.000



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Zone	Lumens	%Lamp	%Fixt
0-20	533.67	N.A.	50.40
0-30	942.59	N.A.	89.10
0-40	1036.99	N.A.	98.00
0-60	1056.42	N.A.	99.80
0-80	1057.97	N.A.	100.00
0-90	1058.03	N.A.	100.00
10-90	874.72	N.A.	82.70
20-40	503.31	N.A.	47.60
20-50	518.33	N.A.	49.00
40-70	20.65	N.A.	2.00
60-80	1.55	N.A.	0.10
70-80	0.33	N.A.	0.00
80-90	0.06	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1058.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	183.32
10-20	350.36
20-30	408.92
30-40	94.39
40-50	15.02
50-60	4.41
60-70	1.22
70-80	0.33
80-90	0.06
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	87	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	67	64	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	67	64	61	60

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	3H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

### UGR Viewed Endwise

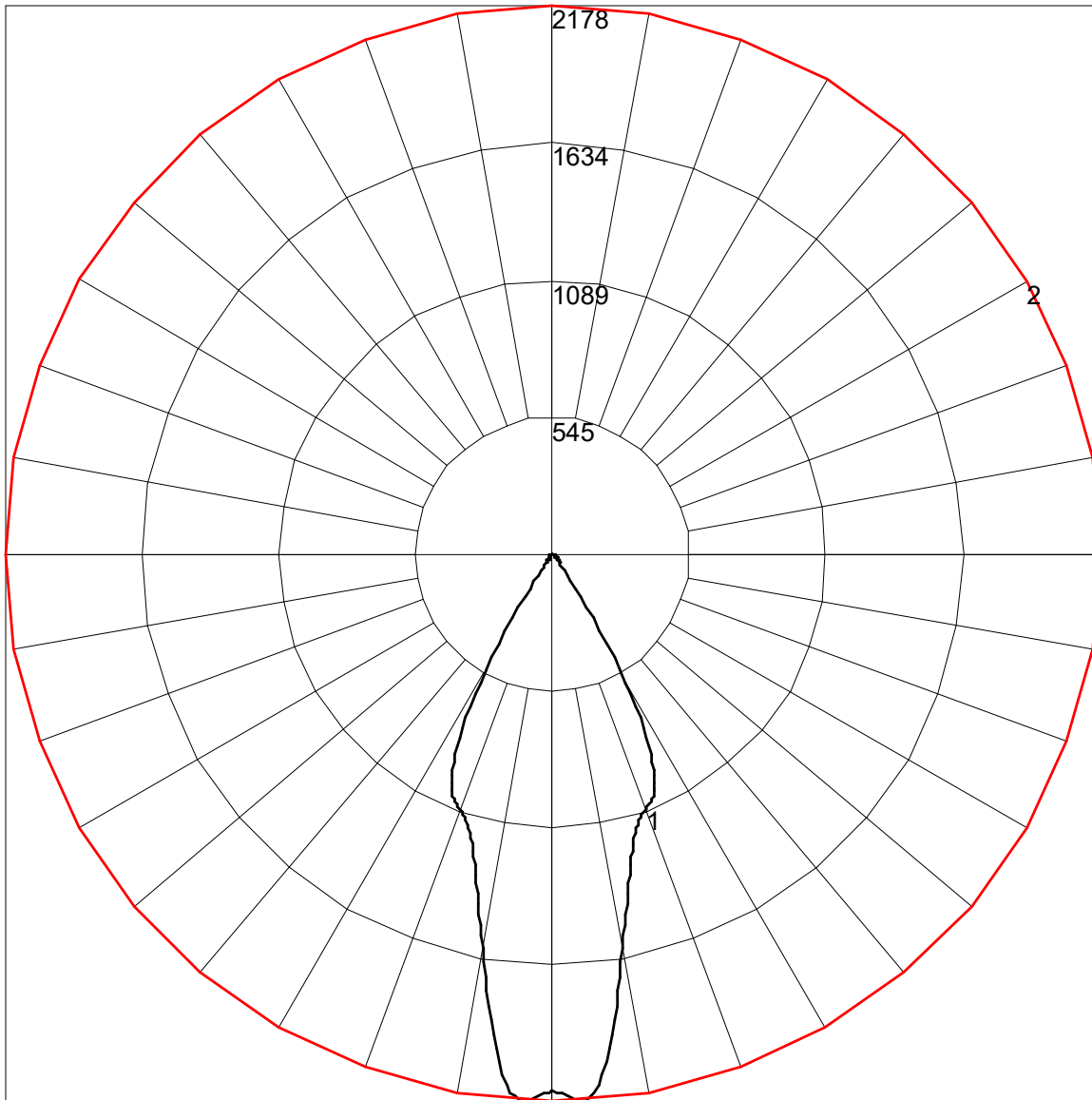
4H	2H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	3H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8H	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12H	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Maximum UGR = 0.2

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POLAR GRAPH



Maximum Candela = 2178.36 Located At Horizontal Angle = 0, Vertical Angle = 3.5

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)