



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L30-835-EM10W-REMOTE-XXX-DIM-UNV-OM-WH-XX\_EM MODE ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12316380.22  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 26-JAN-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6CR-TL-L30-835-EM10W-xxx-DIM-UNV-OM-WH-xx (EM MODE)  
 [LUMINAIRE] 6" DIA. SURFACE CYLINDER  
 [LAMP] One white LED  
 [BALLAST] Philips XI036C100V054DSM5  
 [OTHER] 25.4 C, 120.085 V, 0.314041 A, 37.6223 W, 0.99763 PF, 59.9694  
 [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	1042
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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)	0.74
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	2554	2554	2554
55	746	746	746
65	267	267	267
75	122	122	122
85	90	90	90

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	<u>0</u>
<b>0.0</b>	2185.369
<b>0.5</b>	2189.144
<b>1.0</b>	2190.761
<b>1.5</b>	2189.683
<b>2.0</b>	2185.909
<b>2.5</b>	2180.517
<b>3.0</b>	2168.924
<b>3.5</b>	2155.444
<b>4.0</b>	2136.572
<b>4.5</b>	2111.769
<b>5.0</b>	2080.226
<b>5.5</b>	2041.943
<b>6.0</b>	2002.851
<b>6.5</b>	1956.749
<b>7.0</b>	1907.952
<b>7.5</b>	1856.459
<b>8.0</b>	1803.348
<b>8.5</b>	1750.237
<b>9.0</b>	1697.395
<b>9.5</b>	1645.363
<b>10.0</b>	1595.217
<b>10.5</b>	1547.768
<b>11.0</b>	1502.475
<b>11.5</b>	1460.418
<b>12.0</b>	1421.865
<b>12.5</b>	1385.469
<b>13.0</b>	1352.309
<b>13.5</b>	1321.844
<b>14.0</b>	1294.075
<b>14.5</b>	1267.654
<b>15.0</b>	1243.121
<b>15.5</b>	1219.935
<b>16.0</b>	1199.176
<b>16.5</b>	1180.844
<b>17.0</b>	1163.859
<b>17.5</b>	1147.953
<b>18.0</b>	1132.855
<b>18.5</b>	1117.757
<b>19.0</b>	1103.738
<b>19.5</b>	1090.258
<b>20.0</b>	1077.857
<b>20.5</b>	1065.725
<b>21.0</b>	1053.323
<b>21.5</b>	1040.652
<b>22.0</b>	1026.633
<b>22.5</b>	1011.535
<b>23.0</b>	995.090
<b>23.5</b>	977.296
<b>24.0</b>	957.616
<b>24.5</b>	935.508
<b>25.0</b>	911.245
<b>25.5</b>	884.285
<b>26.0</b>	854.090
<b>26.5</b>	820.120

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27.0	782.915
27.5	742.476
28.0	699.340
28.5	652.969
29.0	602.823
29.5	551.060
30.0	497.949
30.5	444.569
31.0	391.997
31.5	341.582
32.0	293.054
32.5	248.328
33.0	207.483
33.5	170.306
34.0	138.520
34.5	111.857
35.0	90.477
35.5	74.005
36.0	61.496
36.5	52.410
37.0	46.506
37.5	42.758
38.0	40.089
38.5	37.717
39.0	35.587
39.5	33.646
40.0	31.813
40.5	30.114
41.0	28.524
41.5	27.014
42.0	25.639
42.5	24.291
43.0	23.024
43.5	21.811
44.0	20.651
44.5	19.573
45.0	18.548
45.5	17.551
46.0	16.580
46.5	15.610
47.0	14.666
47.5	13.723
48.0	12.806
48.5	11.970
49.0	11.161
49.5	10.353
50.0	9.571
50.5	8.789
51.0	8.142
51.5	7.522
52.0	6.956
52.5	6.443
53.0	5.958
53.5	5.527
54.0	5.095
54.5	4.745

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55.0	4.394
55.5	4.071
56.0	3.828
56.5	3.532
57.0	3.289
57.5	3.073
58.0	2.885
58.5	2.696
59.0	2.507
59.5	2.372
60.0	2.211
60.5	2.076
61.0	1.941
61.5	1.806
62.0	1.725
62.5	1.591
63.0	1.510
63.5	1.402
64.0	1.321
64.5	1.240
65.0	1.159
65.5	1.105
66.0	1.024
66.5	0.998
67.0	0.917
67.5	0.863
68.0	0.809
68.5	0.755
69.0	0.701
69.5	0.674
70.0	0.647
70.5	0.593
71.0	0.539
71.5	0.539
72.0	0.485
72.5	0.458
73.0	0.404
73.5	0.377
74.0	0.350
74.5	0.350
75.0	0.324
75.5	0.297
76.0	0.297
76.5	0.270
77.0	0.243
77.5	0.243
78.0	0.216
78.5	0.189
79.0	0.189
79.5	0.189
80.0	0.162
80.5	0.135
81.0	0.162
81.5	0.135
82.0	0.135
82.5	0.135

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83.0	0.108
83.5	0.108
84.0	0.081
84.5	0.081
85.0	0.081
85.5	0.081
86.0	0.081
86.5	0.054
87.0	0.054
87.5	0.054
88.0	0.054
88.5	0.054
89.0	0.054
89.5	0.054
90.0	0.027
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

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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	535.42	N.A.	51.40
0-30	928.98	N.A.	89.10
0-40	1021.44	N.A.	98.00
0-60	1040.4	N.A.	99.80
0-80	1042.00	N.A.	100.00
0-90	1042.1	N.A.	100.00
10-90	860.32	N.A.	82.60
20-40	486.02	N.A.	46.60
20-50	500.66	N.A.	48.00
40-70	20.19	N.A.	1.90
60-80	1.60	N.A.	0.20
70-80	0.37	N.A.	0.00
80-90	0.10	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	1042.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	181.77
10-20	353.65
20-30	393.56
30-40	92.46
40-50	14.64
50-60	4.32
60-70	1.23
70-80	0.37
80-90	0.10
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	98	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	89	87	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	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	68	65	71	67	64	71	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	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

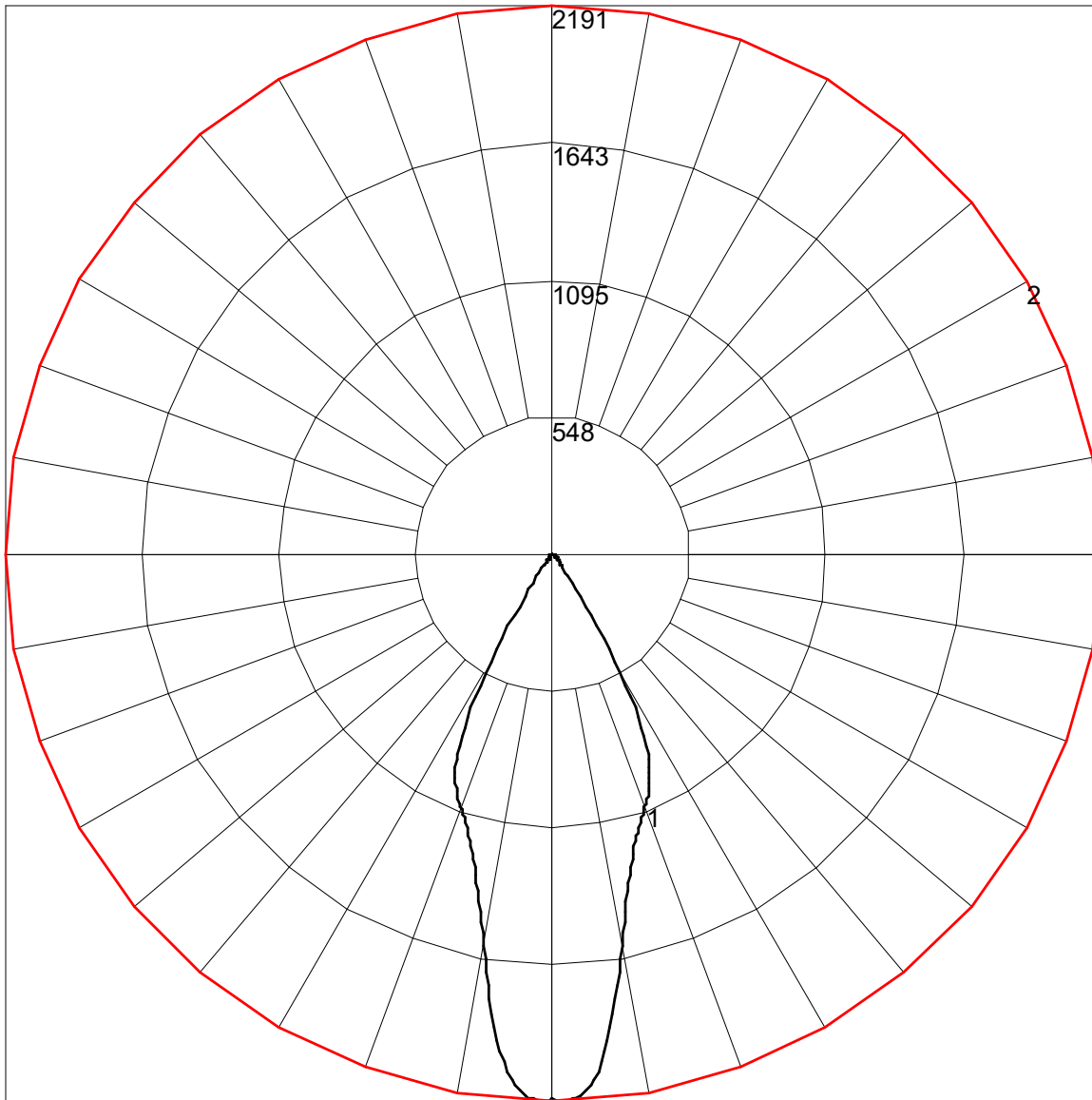
4H	2H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	3H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8H	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	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 = 2190.761 Located At Horizontal Angle = 0, Vertical Angle = 1

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

# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)