



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L30-835-XXX-DIM-UNV-OM-SG-XX\_.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-xxx-DIM-UNV-OM-SG-xx  
 [LUMINAIRE] 6" DIA. SURFACE CYLINDER  
 [LAMP] One white LED  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight  
 [SEARCH\_MOUNTING] Surface

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	27.8
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	6540	6540	6540
55	1910	1910	1910
65	684	684	684
75	311	311	311
85	231	231	231

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CANDELA TABULATION

	<u>0</u>
0.0	5595.551
0.5	5605.216
1.0	5609.357
1.5	5606.596
2.0	5596.932
2.5	5583.126
3.0	5553.443
3.5	5518.928
4.0	5470.608
4.5	5407.100
5.0	5326.335
5.5	5228.313
6.0	5128.220
6.5	5010.179
7.0	4885.235
7.5	4753.388
8.0	4617.400
8.5	4481.411
9.0	4346.113
9.5	4212.886
10.0	4084.490
10.5	3962.998
11.0	3847.028
11.5	3739.341
12.0	3640.629
12.5	3547.439
13.0	3462.532
13.5	3384.529
14.0	3313.428
14.5	3245.779
15.0	3182.962
15.5	3123.596
16.0	3070.443
16.5	3023.503
17.0	2980.014
17.5	2939.287
18.0	2900.630
18.5	2861.973
19.0	2826.078
19.5	2791.563
20.0	2759.809
20.5	2728.746
21.0	2696.992
21.5	2664.548
22.0	2628.653
22.5	2589.996
23.0	2547.888
23.5	2502.328
24.0	2451.937
24.5	2395.332
25.0	2333.205
25.5	2264.176
26.0	2186.862
26.5	2099.885

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CANDELA TABULATION - (Cont.)

27.0	2004.624
27.5	1901.079
28.0	1790.632
28.5	1671.901
29.0	1543.505
29.5	1410.968
30.0	1274.979
30.5	1138.301
31.0	1003.693
31.5	874.607
32.0	750.353
32.5	635.833
33.0	531.253
33.5	436.061
34.0	354.675
34.5	286.404
35.0	231.664
35.5	189.487
36.0	157.457
36.5	134.194
37.0	119.076
37.5	109.481
38.0	102.647
38.5	96.573
39.0	91.119
39.5	86.149
40.0	81.455
40.5	77.106
41.0	73.033
41.5	69.168
42.0	65.647
42.5	62.196
43.0	58.951
43.5	55.845
44.0	52.877
44.5	50.116
45.0	47.492
45.5	44.938
46.0	42.453
46.5	39.968
47.0	37.552
47.5	35.136
48.0	32.789
48.5	30.649
49.0	28.578
49.5	26.507
50.0	24.506
50.5	22.504
51.0	20.847
51.5	19.259
52.0	17.810
52.5	16.498
53.0	15.256
53.5	14.151
54.0	13.047
54.5	12.149

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CANDELA TABULATION - (Cont.)

55.0	11.252
55.5	10.423
56.0	9.802
56.5	9.043
57.0	8.422
57.5	7.869
58.0	7.386
58.5	6.903
59.0	6.420
59.5	6.075
60.0	5.660
60.5	5.315
61.0	4.970
61.5	4.625
62.0	4.418
62.5	4.073
63.0	3.866
63.5	3.590
64.0	3.382
64.5	3.175
65.0	2.968
65.5	2.830
66.0	2.623
66.5	2.554
67.0	2.347
67.5	2.209
68.0	2.071
68.5	1.933
69.0	1.795
69.5	1.726
70.0	1.657
70.5	1.519
71.0	1.381
71.5	1.381
72.0	1.243
72.5	1.174
73.0	1.035
73.5	0.966
74.0	0.897
74.5	0.897
75.0	0.828
75.5	0.759
76.0	0.759
76.5	0.690
77.0	0.621
77.5	0.621
78.0	0.552
78.5	0.483
79.0	0.483
79.5	0.483
80.0	0.414
80.5	0.345
81.0	0.414
81.5	0.345
82.0	0.345
82.5	0.345

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CANDELA TABULATION - (Cont.)

83.0	0.276
83.5	0.276
84.0	0.207
84.5	0.207
85.0	0.207
85.5	0.207
86.0	0.207
86.5	0.138
87.0	0.138
87.5	0.138
88.0	0.138
88.5	0.138
89.0	0.138
89.5	0.138
90.0	0.069
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  
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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
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123.0	0.000
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126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
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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

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

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

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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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1370.93	N.A.	51.40
0-30	2378.62	N.A.	89.10
0-40	2615.36	N.A.	98.00
0-60	2663.9	N.A.	99.80
0-80	2667.99	N.A.	100.00
0-90	2668.24	N.A.	100.00
10-90	2202.82	N.A.	82.60
20-40	1244.43	N.A.	46.60
20-50	1281.91	N.A.	48.00
40-70	51.69	N.A.	1.90
60-80	4.09	N.A.	0.20
70-80	0.94	N.A.	0.00
80-90	0.25	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	2668.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	465.43
10-20	905.50
20-30	1007.69
30-40	236.74
40-50	37.48
50-60	11.06
60-70	3.16
70-80	0.94
80-90	0.25
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

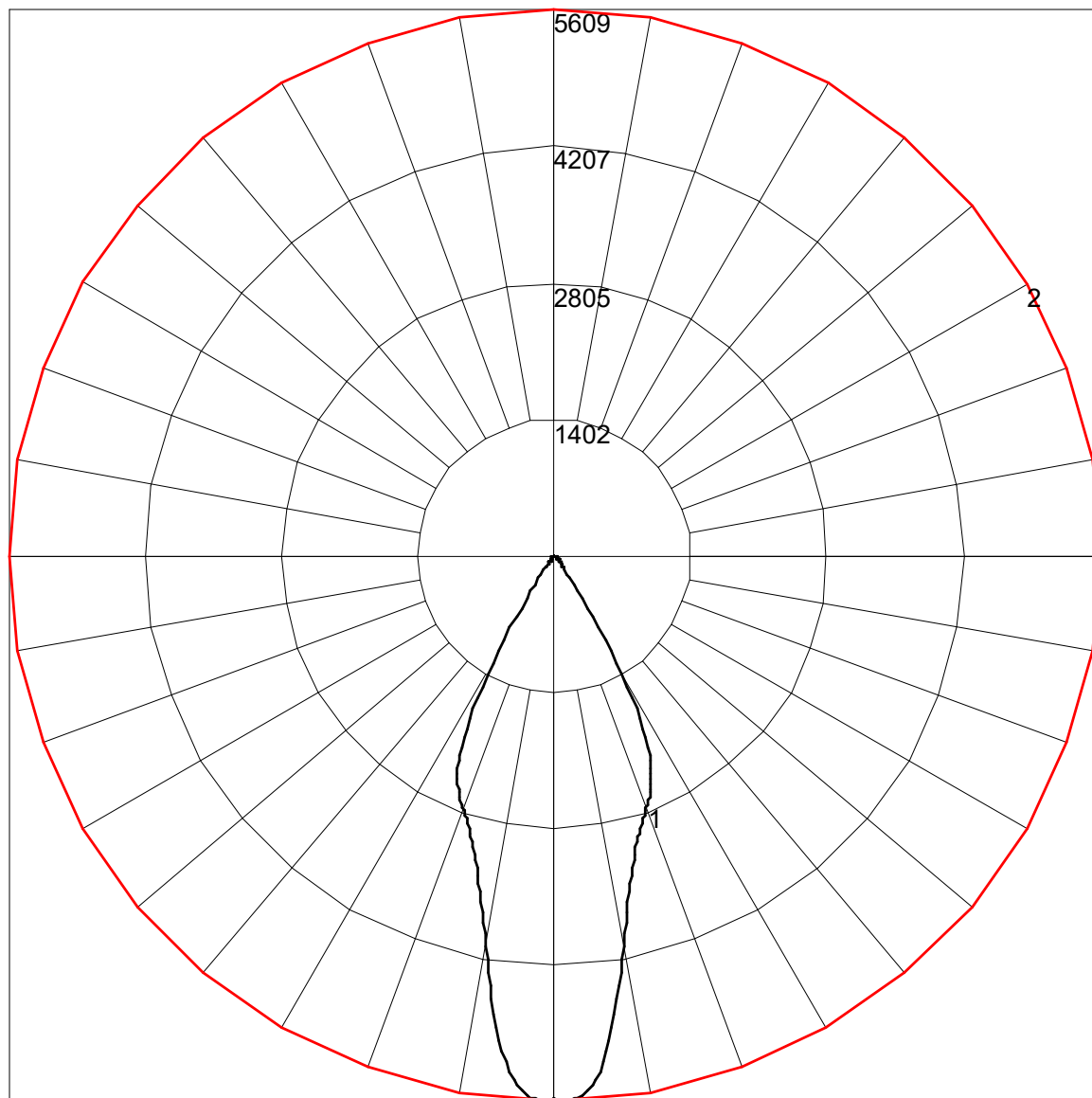
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	3H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	12H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
4H	2H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	3H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	12H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
8H	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	12H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
12H	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Maximum UGR = 3.5

POLAR GRAPH



Maximum Candela = 5609.357 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.)