



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-XX-L15-835-XXX-DIM-UNV-FM-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12316380.04
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 05-30-2025
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6CR-TL-L15-835-xxx-DIM-UNV-FM-CS
 [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	1103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	13.9
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	2739	2739	2739
55	795	795	795
65	279	279	279
75	125	125	125
85	61	61	61

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CANDELA TABULATION

	<u>0</u>
0.0	2231.894
0.5	2233.547
1.0	2240.159
1.5	2246.219
2.0	2259.993
2.5	2268.808
3.0	2270.461
3.5	2271.012
4.0	2258.340
4.5	2241.260
5.0	2208.754
5.5	2167.433
6.0	2121.154
6.5	2069.364
7.0	2013.168
7.5	1954.767
8.0	1894.714
8.5	1835.211
9.0	1776.810
9.5	1720.063
10.0	1666.070
10.5	1615.382
11.0	1568.001
11.5	1523.374
12.0	1480.951
12.5	1441.283
13.0	1403.818
13.5	1368.006
14.0	1333.847
14.5	1302.443
15.0	1273.794
15.5	1248.450
16.0	1227.514
16.5	1208.782
17.0	1191.152
17.5	1175.725
18.0	1161.951
18.5	1150.381
19.0	1142.117
19.5	1134.955
20.0	1128.894
20.5	1121.732
21.0	1114.570
21.5	1106.856
22.0	1098.592
22.5	1088.124
23.0	1075.452
23.5	1060.026
24.0	1040.743
24.5	1015.399
25.0	986.199
25.5	955.346
26.0	925.043
26.5	891.435

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CANDELA TABULATION - (Cont.)

27.0	856.175
27.5	815.955
28.0	770.227
28.5	720.090
29.0	667.750
29.5	614.308
30.0	557.560
30.5	498.774
31.0	437.233
31.5	375.912
32.0	316.961
32.5	261.811
33.0	213.823
33.5	172.888
34.0	138.398
34.5	109.749
35.0	86.499
35.5	68.979
36.0	57.739
36.5	51.844
37.0	48.318
37.5	45.233
38.0	42.533
38.5	40.054
39.0	37.795
39.5	35.757
40.0	33.828
40.5	32.010
41.0	30.302
41.5	28.760
42.0	27.272
42.5	25.895
43.0	24.517
43.5	23.305
44.0	22.093
44.5	20.936
45.0	19.889
45.5	18.842
46.0	17.796
46.5	16.804
47.0	15.757
47.5	14.765
48.0	13.829
48.5	12.947
49.0	12.066
49.5	11.184
50.0	10.303
50.5	9.476
51.0	8.760
51.5	8.099
52.0	7.438
52.5	6.887
53.0	6.336
53.5	5.895
54.0	5.454
54.5	5.014

CANDELA TABULATION - (Cont.)

55.0	4.683
55.5	4.352
56.0	4.022
56.5	3.746
57.0	3.471
57.5	3.251
58.0	3.030
58.5	2.810
59.0	2.645
59.5	2.479
60.0	2.314
60.5	2.149
61.0	2.039
61.5	1.873
62.0	1.763
62.5	1.653
63.0	1.543
63.5	1.488
64.0	1.377
64.5	1.267
65.0	1.212
65.5	1.157
66.0	1.047
66.5	0.992
67.0	0.937
67.5	0.882
68.0	0.826
68.5	0.771
69.0	0.716
69.5	0.661
70.0	0.606
70.5	0.606
71.0	0.551
71.5	0.496
72.0	0.441
72.5	0.441
73.0	0.386
73.5	0.386
74.0	0.331
74.5	0.331
75.0	0.331
75.5	0.275
76.0	0.275
76.5	0.220
77.0	0.220
77.5	0.220
78.0	0.165
78.5	0.165
79.0	0.165
79.5	0.165
80.0	0.110
80.5	0.110
81.0	0.110
81.5	0.110
82.0	0.110
82.5	0.110

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CANDELA TABULATION - (Cont.)

83.0	0.110
83.5	0.055
84.0	0.055
84.5	0.055
85.0	0.055
85.5	0.055
86.0	0.055
86.5	0.055
87.0	0.055
87.5	0.055
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

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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
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
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130.5	0.000
131.0	0.000
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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

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
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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
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154.5	0.000
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156.0	0.000
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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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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	556.37	N.A.	50.40
0-30	982.68	N.A.	89.10
0-40	1081.09	N.A.	98.00
0-60	1101.36	N.A.	99.80
0-80	1102.97	N.A.	100.00
0-90	1103.03	N.A.	100.00
10-90	911.92	N.A.	82.70
20-40	524.72	N.A.	47.60
20-50	540.38	N.A.	49.00
40-70	21.53	N.A.	2.00
60-80	1.61	N.A.	0.10
70-80	0.34	N.A.	0.00
80-90	0.07	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	1103.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.11
10-20	365.26
20-30	426.31
30-40	98.41
40-50	15.66
50-60	4.60
60-70	1.27
70-80	0.34
80-90	0.07
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

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

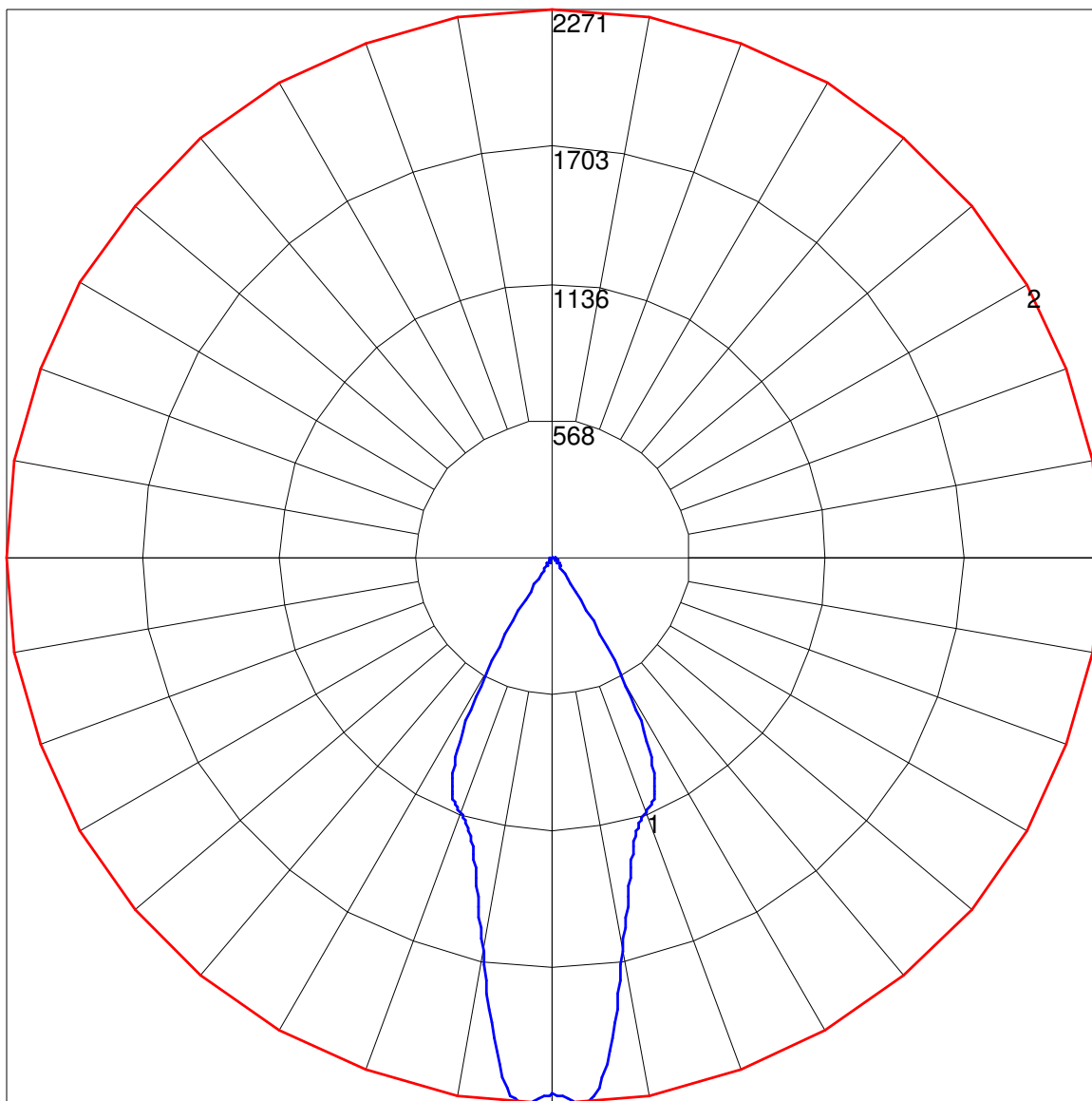
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	3H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	12H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
4H	2H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	3H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	12H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
8H	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	12H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
12H	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Maximum UGR = 0.4

POLAR GRAPH



Maximum Candela = 2271.012 Located At Horizontal Angle = 0, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)