



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4CR-XX-L7-830-XXX-DIM-UNV-OS-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13255206.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 02-21-2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4CR-xx-L7-830-xxx-DIM-UNV-OS-CS-xx
[LUMINAIRE] Aluminum housing and reflector, no enclosure
[LAMP] One white LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Pendant, Surface, Suspended, Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	11.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.14
Spacing Criterion (90-270)	0.14
Spacing Criterion (Diagonal)	0.16
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 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	2633	2633	2633
55	974	974	974
65	440	440	440
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	12282.353
0.5	12229.412
1.0	11894.118
1.5	11400.000
2.0	10629.412
2.5	9570.589
3.0	8494.118
3.5	7335.294
4.0	6164.706
4.5	5105.294
5.0	4181.177
5.5	3437.647
6.0	2860.588
6.5	2402.941
7.0	2036.471
7.5	1752.941
8.0	1526.471
8.5	1345.294
9.0	1201.765
9.5	1085.882
10.0	990.000
10.5	911.765
11.0	845.882
11.5	788.824
12.0	740.588
12.5	698.824
13.0	661.176
13.5	628.235
14.0	599.412
14.5	573.529
15.0	550.588
15.5	530.588
16.0	512.353
16.5	496.471
17.0	481.765
17.5	469.412
18.0	458.824
18.5	448.824
19.0	440.588
19.5	433.529
20.0	427.059
20.5	421.765
21.0	417.059
21.5	412.353
22.0	408.235
22.5	403.529
23.0	399.412
23.5	395.882
24.0	390.000
24.5	379.412
25.0	363.529
25.5	342.353
26.0	316.471
26.5	286.471

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CANDELA TABULATION - (Cont.)

27.0	251.176
27.5	210.588
28.0	168.824
28.5	131.176
29.0	100.000
29.5	74.118
30.0	52.941
30.5	37.059
31.0	26.471
31.5	21.765
32.0	19.412
32.5	18.235
33.0	17.059
33.5	15.882
34.0	14.706
34.5	14.118
35.0	13.529
35.5	12.941
36.0	12.353
36.5	12.353
37.0	11.765
37.5	11.176
38.0	10.588
38.5	10.588
39.0	10.000
39.5	9.412
40.0	8.824
40.5	8.824
41.0	8.235
41.5	7.647
42.0	7.647
42.5	7.059
43.0	7.059
43.5	6.471
44.0	6.471
44.5	5.882
45.0	5.882
45.5	5.294
46.0	4.706
46.5	4.706
47.0	4.118
47.5	4.118
48.0	3.529
48.5	3.529
49.0	2.941
49.5	2.941
50.0	2.941
50.5	2.941
51.0	2.353
51.5	2.353
52.0	2.353
52.5	2.353
53.0	1.765
53.5	1.765
54.0	1.765
54.5	1.765

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CANDELA TABULATION - (Cont.)

55.0	1.765
55.5	1.765
56.0	1.765
56.5	1.176
57.0	1.176
57.5	1.176
58.0	1.176
58.5	1.176
59.0	1.176
59.5	1.176
60.0	1.176
60.5	1.176
61.0	1.176
61.5	0.588
62.0	0.588
62.5	0.588
63.0	0.588
63.5	0.588
64.0	0.588
64.5	0.588
65.0	0.588
65.5	0.588
66.0	0.588
66.5	0.588
67.0	0.588
67.5	0.588
68.0	0.588
68.5	0.588
69.0	0.588
69.5	0.588
70.0	0.588
70.5	0.000
71.0	0.000
71.5	0.000
72.0	0.000
72.5	0.000
73.0	0.000
73.5	0.000
74.0	0.000
74.5	0.000
75.0	0.000
75.5	0.000
76.0	0.000
76.5	0.000
77.0	0.000
77.5	0.000
78.0	0.000
78.5	0.000
79.0	0.000
79.5	0.000
80.0	0.000
80.5	0.000
81.0	0.000
81.5	0.000
82.0	0.000
82.5	0.000

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CANDELA TABULATION - (Cont.)

83.0	0.000
83.5	0.000
84.0	0.000
84.5	0.000
85.0	0.000
85.5	0.000
86.0	0.000
86.5	0.000
87.0	0.000
87.5	0.000
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
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94.0	0.000
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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
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122.0	0.000
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123.0	0.000
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124.0	0.000
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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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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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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
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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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	477.59	N.A.	75.80
0-30	613.47	N.A.	97.40
0-40	623.54	N.A.	99.00
0-60	629.39	N.A.	99.90
0-80	630.06	N.A.	100.00
0-90	630.06	N.A.	100.00
10-90	314.50	N.A.	49.90
20-40	145.94	N.A.	23.20
20-50	150.25	N.A.	23.80
40-70	6.51	N.A.	1.00
60-80	0.67	N.A.	0.10
70-80	0.02	N.A.	0.00
80-90	0.00	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	630.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	315.56
10-20	162.03
20-30	135.88
30-40	10.06
40-50	4.30
50-60	1.55
60-70	0.65
70-80	0.02
80-90	0.00
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

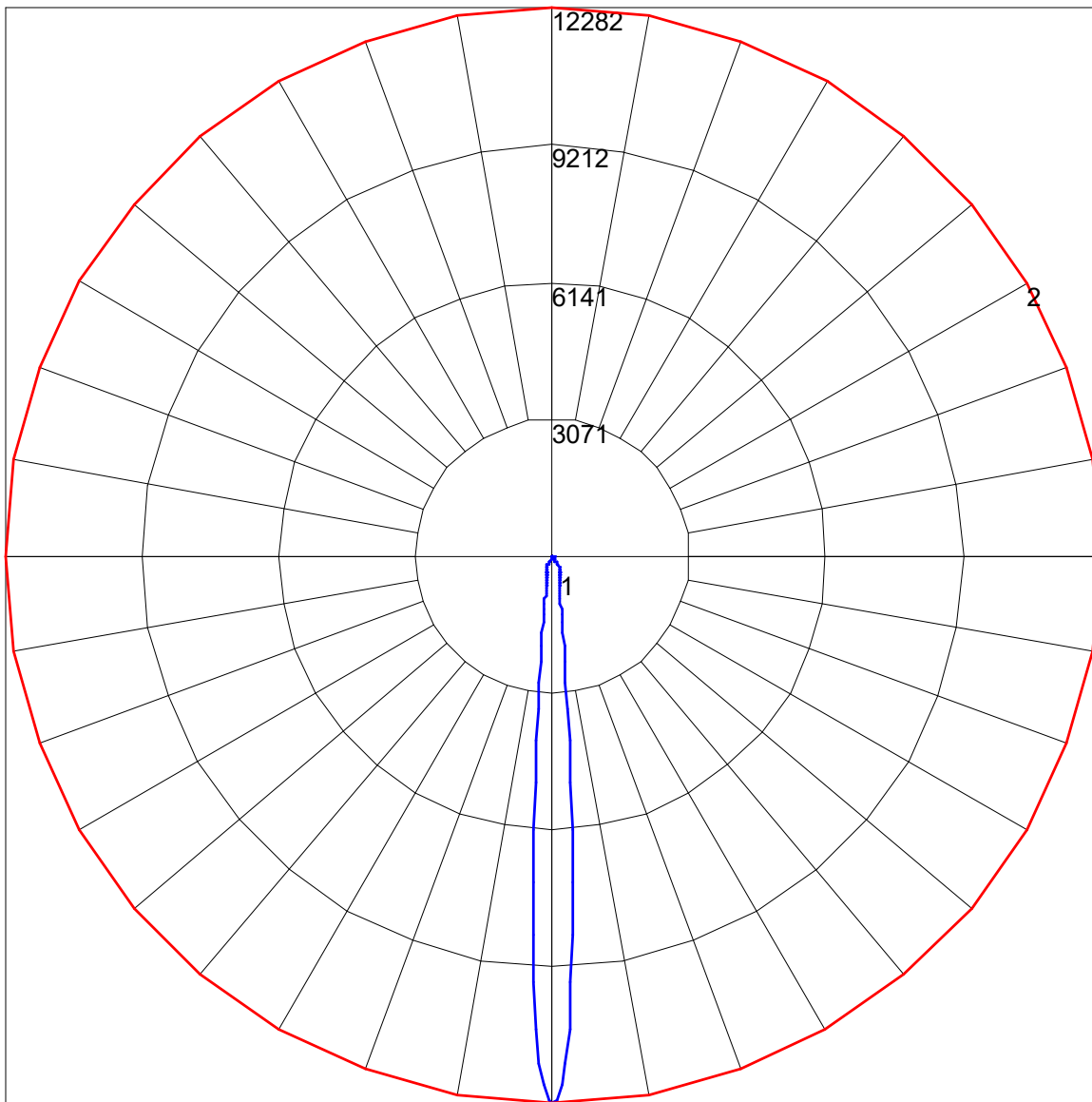
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94
3	109	104	101	98	107	103	100	97	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	93	92	94	92	91	89
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87
6	100	94	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83
8	96	90	86	83	95	89	85	83	88	85	83	87	84	82	87	84	82	81
9	93	87	84	81	93	87	83	81	86	83	81	85	83	81	85	82	80	79
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78

POLAR GRAPH



Maximum Candela = 12282.353 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)