



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L25-835-XXX-DIM-UNV-ON-CS-AD-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 13131414.10
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 01/25/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMCAT] 4CR-xx-L25-835-xxx-DIM-UNV-ON-CS-AD-xx
 [LUMINAIRE] Aluminum housing and reflector, frosted lens 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	1354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	30.025
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.56
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	13472	13472	13472
55	1876	1876	1876
65	749	749	749
75	367	367	367
85	363	363	363

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CANDELA TABULATION

	<u>0</u>
0.0	3890.0
0.5	3884.0
1.0	3867.0
1.5	3838.0
2.0	3799.0
2.5	3749.0
3.0	3690.0
3.5	3623.0
4.0	3549.0
4.5	3468.0
5.0	3383.0
5.5	3294.0
6.0	3201.0
6.5	3106.0
7.0	3009.0
7.5	2911.0
8.0	2814.0
8.5	2718.0
9.0	2624.0
9.5	2532.0
10.0	2443.0
10.5	2358.0
11.0	2278.0
11.5	2199.0
12.0	2124.0
12.5	2053.0
13.0	1986.0
13.5	1922.0
14.0	1862.0
14.5	1805.0
15.0	1750.0
15.5	1698.0
16.0	1649.0
16.5	1601.0
17.0	1556.0
17.5	1513.0
18.0	1468.0
18.5	1423.0
19.0	1379.0
19.5	1335.0
20.0	1292.0
20.5	1248.0
21.0	1205.0
21.5	1162.0
22.0	1118.0
22.5	1074.0
23.0	1030.0
23.5	985.6
24.0	941.2
24.5	897.0
25.0	852.8
25.5	809.3
26.0	766.4
26.5	724.2

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CANDELA TABULATION - (Cont.)

27.0	683.2
27.5	643.2
28.0	604.8
28.5	567.9
29.0	532.5
29.5	498.7
30.0	466.7
30.5	436.2
31.0	407.5
31.5	380.4
32.0	355.1
32.5	331.2
33.0	308.8
33.5	287.8
34.0	267.8
34.5	249.2
35.0	231.8
35.5	215.6
36.0	200.2
36.5	185.7
37.0	172.2
37.5	159.3
38.0	147.0
38.5	135.3
39.0	124.1
39.5	113.4
40.0	103.0
40.5	93.2
41.0	83.8
41.5	75.0
42.0	66.8
42.5	59.2
43.0	52.2
43.5	45.8
44.0	40.0
44.5	34.8
45.0	30.1
45.5	25.9
46.0	22.1
46.5	18.8
47.0	16.0
47.5	13.8
48.0	12.1
48.5	10.6
49.0	9.4
49.5	8.5
50.0	7.7
50.5	7.0
51.0	6.4
51.5	5.8
52.0	5.4
52.5	5.0
53.0	4.6
53.5	4.2
54.0	3.9
54.5	3.7

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CANDELA TABULATION - (Cont.)

55.0	3.4
55.5	3.2
56.0	3.0
56.5	2.8
57.0	2.6
57.5	2.5
58.0	2.3
58.5	2.2
59.0	2.0
59.5	1.9
60.0	1.8
60.5	1.7
61.0	1.6
61.5	1.5
62.0	1.4
62.5	1.3
63.0	1.3
63.5	1.2
64.0	1.1
64.5	1.1
65.0	1.0
65.5	1.0
66.0	0.9
66.5	0.9
67.0	0.8
67.5	0.8
68.0	0.7
68.5	0.7
69.0	0.6
69.5	0.6
70.0	0.6
70.5	0.5
71.0	0.5
71.5	0.5
72.0	0.4
72.5	0.4
73.0	0.4
73.5	0.4
74.0	0.3
74.5	0.3
75.0	0.3
75.5	0.3
76.0	0.3
76.5	0.2
77.0	0.2
77.5	0.2
78.0	0.2
78.5	0.2
79.0	0.2
79.5	0.2
80.0	0.1
80.5	0.1
81.0	0.1
81.5	0.1
82.0	0.1
82.5	0.1

CANDELA TABULATION - (Cont.)

83.0	0.1
83.5	0.1
84.0	0.1
84.5	0.1
85.0	0.1
85.5	0.1
86.0	0.0
86.5	0.0
87.0	0.0
87.5	0.0
88.0	0.0
88.5	0.0
89.0	0.0
89.5	0.0
90.0	0.0
90.5	0.0
91.0	0.0
91.5	0.0
92.0	0.0
92.5	0.0
93.0	0.0
93.5	0.0
94.0	0.0
94.5	0.0
95.0	0.0
95.5	0.0
96.0	0.0
96.5	0.0
97.0	0.0
97.5	0.0
98.0	0.0
98.5	0.0
99.0	0.0
99.5	0.0
100.0	0.0
100.5	0.0
101.0	0.0
101.5	0.0
102.0	0.0
102.5	0.0
103.0	0.0
103.5	0.0
104.0	0.0
104.5	0.0
105.0	0.0
105.5	0.0
106.0	0.0
106.5	0.0
107.0	0.0
107.5	0.0
108.0	0.0
108.5	0.0
109.0	0.0
109.5	0.0
110.0	0.0
110.5	0.0

CANDELA TABULATION - (Cont.)

111.0	0.0
111.5	0.0
112.0	0.0
112.5	0.0
113.0	0.0
113.5	0.0
114.0	0.0
114.5	0.0
115.0	0.0
115.5	0.0
116.0	0.0
116.5	0.0
117.0	0.0
117.5	0.0
118.0	0.0
118.5	0.0
119.0	0.0
119.5	0.0
120.0	0.0
120.5	0.0
121.0	0.0
121.5	0.0
122.0	0.0
122.5	0.0
123.0	0.0
123.5	0.0
124.0	0.0
124.5	0.0
125.0	0.0
125.5	0.0
126.0	0.0
126.5	0.0
127.0	0.0
127.5	0.0
128.0	0.0
128.5	0.0
129.0	0.0
129.5	0.0
130.0	0.0
130.5	0.0
131.0	0.0
131.5	0.0
132.0	0.0
132.5	0.0
133.0	0.0
133.5	0.0
134.0	0.0
134.5	0.0
135.0	0.0
135.5	0.0
136.0	0.0
136.5	0.0
137.0	0.0
137.5	0.0
138.0	0.0
138.5	0.0

CANDELA TABULATION - (Cont.)

139.0	0.0
139.5	0.0
140.0	0.0
140.5	0.0
141.0	0.0
141.5	0.0
142.0	0.0
142.5	0.0
143.0	0.0
143.5	0.0
144.0	0.0
144.5	0.0
145.0	0.0
145.5	0.0
146.0	0.0
146.5	0.0
147.0	0.0
147.5	0.0
148.0	0.0
148.5	0.0
149.0	0.0
149.5	0.0
150.0	0.0
150.5	0.0
151.0	0.0
151.5	0.0
152.0	0.0
152.5	0.0
153.0	0.0
153.5	0.0
154.0	0.0
154.5	0.0
155.0	0.0
155.5	0.0
156.0	0.0
156.5	0.0
157.0	0.0
157.5	0.0
158.0	0.0
158.5	0.0
159.0	0.0
159.5	0.0
160.0	0.0
160.5	0.0
161.0	0.0
161.5	0.0
162.0	0.0
162.5	0.0
163.0	0.0
163.5	0.0
164.0	0.0
164.5	0.0
165.0	0.0
165.5	0.0
166.0	0.0
166.5	0.0

CANDELA TABULATION - (Cont.)

167.0	0.0
167.5	0.0
168.0	0.0
168.5	0.0
169.0	0.0
169.5	0.0
170.0	0.0
170.5	0.0
171.0	0.0
171.5	0.0
172.0	0.0
172.5	0.0
173.0	0.0
173.5	0.0
174.0	0.0
174.5	0.0
175.0	0.0
175.5	0.0
176.0	0.0
176.5	0.0
177.0	0.0
177.5	0.0
178.0	0.0
178.5	0.0
179.0	0.0
179.5	0.0
180.0	0.0

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Zone	Lumens	%Lamp	%Fixt
0-20	781.90	N.A.	57.70
0-30	1168.34	N.A.	86.30
0-40	1320.57	N.A.	97.50
0-60	1352.86	N.A.	99.90
0-80	1354.25	N.A.	100.00
0-90	1354.31	N.A.	100.00
10-90	1063.03	N.A.	78.50
20-40	538.68	N.A.	39.80
20-50	567.58	N.A.	41.90
40-70	33.34	N.A.	2.50
60-80	1.39	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	1354.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	291.29
10-20	490.61
20-30	386.44
30-40	152.23
40-50	28.90
50-60	3.39
60-70	1.05
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	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	86	99	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	90	85	82	96	89	85	81	87	84	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	80	77	84	80	76	82	79	76	81	78	75	74
7	90	82	77	73	89	81	77	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62

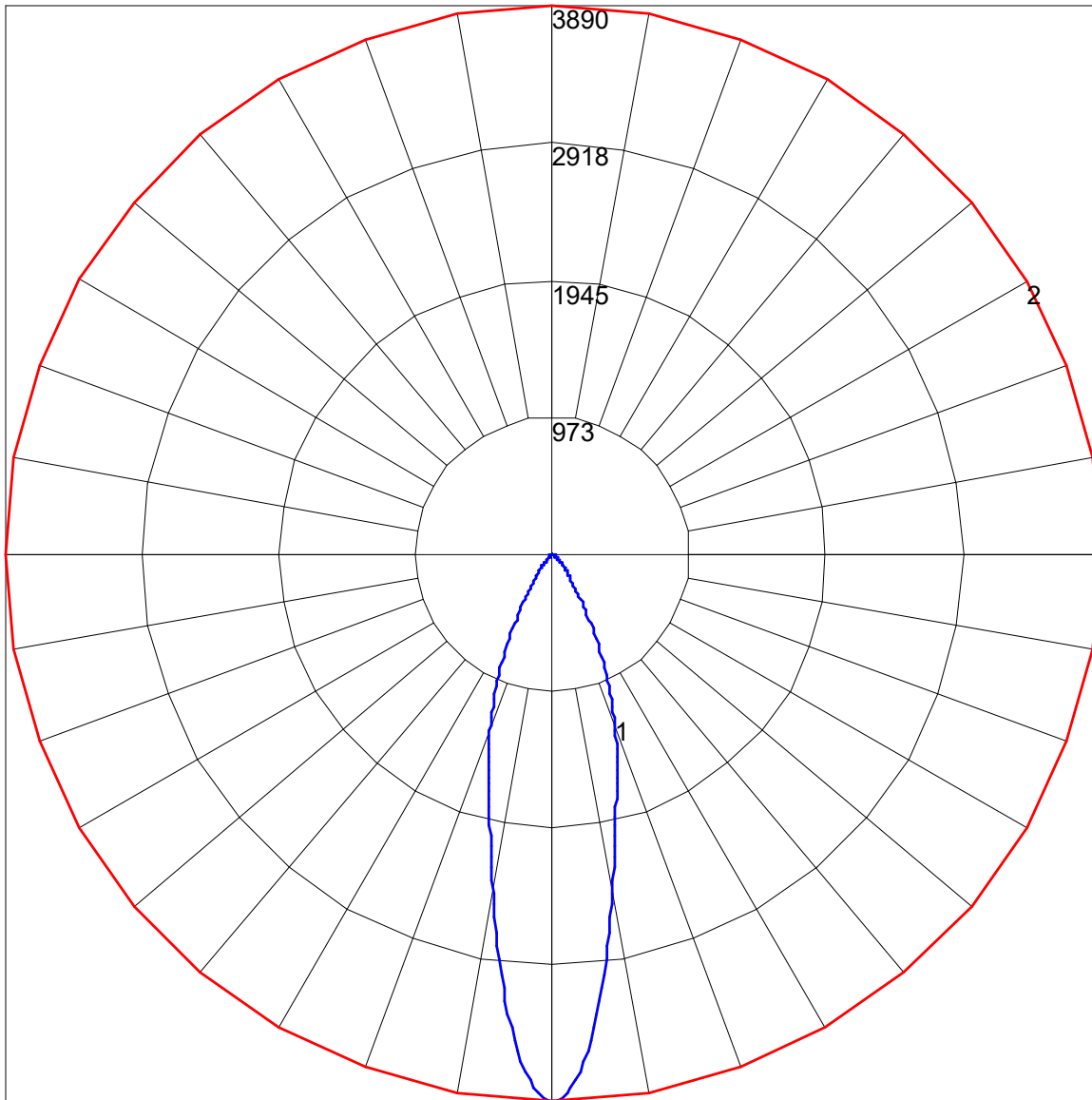
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UGR TABLE - CORRECTED

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	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	3H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	4H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	6H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	8H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	12H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
4H	2H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	3H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	4H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	6H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	8H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	12H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
8H	4H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	6H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	8H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	12H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
12H	4H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	6H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	8H	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

Maximum UGR = 1.1

POLAR GRAPH



Maximum Candela = 3890 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.)