



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L40-835-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-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] 25-JAN-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6CR-TL-L40-835-EM10W-xxx-DIM-UNV-OM-CS-xx (EMERGENCY 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	1017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	2493	2493	2493
55	728	728	728
65	261	261	261
75	119	119	119
85	88	88	88

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CANDELA TABULATION

	<u>0</u>
0.0	2133.158
0.5	2136.842
1.0	2138.421
1.5	2137.368
2.0	2133.684
2.5	2128.421
3.0	2117.105
3.5	2103.947
4.0	2085.526
4.5	2061.316
5.0	2030.526
5.5	1993.158
6.0	1955.000
6.5	1910.000
7.0	1862.368
7.5	1812.105
8.0	1760.263
8.5	1708.421
9.0	1656.842
9.5	1606.053
10.0	1557.105
10.5	1510.790
11.0	1466.579
11.5	1425.526
12.0	1387.895
12.5	1352.368
13.0	1320.000
13.5	1290.263
14.0	1263.158
14.5	1237.368
15.0	1213.421
15.5	1190.790
16.0	1170.526
16.5	1152.632
17.0	1136.053
17.5	1120.526
18.0	1105.790
18.5	1091.053
19.0	1077.368
19.5	1064.211
20.0	1052.105
20.5	1040.263
21.0	1028.158
21.5	1015.790
22.0	1002.105
22.5	987.368
23.0	971.316
23.5	953.947
24.0	934.737
24.5	913.158
25.0	889.474
25.5	863.158
26.0	833.684
26.5	800.526

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6CR-TL-L40-835-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

27.0	764.211
27.5	724.737
28.0	682.632
28.5	637.368
29.0	588.421
29.5	537.895
30.0	486.053
30.5	433.947
31.0	382.632
31.5	333.421
32.0	286.053
32.5	242.395
33.0	202.526
33.5	166.237
34.0	135.211
34.5	109.184
35.0	88.316
35.5	72.237
36.0	60.026
36.5	51.158
37.0	45.395
37.5	41.737
38.0	39.132
38.5	36.816
39.0	34.737
39.5	32.842
40.0	31.053
40.5	29.395
41.0	27.842
41.5	26.368
42.0	25.026
42.5	23.711
43.0	22.474
43.5	21.289
44.0	20.158
44.5	19.105
45.0	18.105
45.5	17.132
46.0	16.184
46.5	15.237
47.0	14.316
47.5	13.395
48.0	12.500
48.5	11.684
49.0	10.895
49.5	10.105
50.0	9.342
50.5	8.579
51.0	7.947
51.5	7.342
52.0	6.789
52.5	6.289
53.0	5.816
53.5	5.395
54.0	4.974
54.5	4.632

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6CR-TL-L40-835-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

55.0	4.289
55.5	3.974
56.0	3.737
56.5	3.447
57.0	3.211
57.5	3.000
58.0	2.816
58.5	2.632
59.0	2.447
59.5	2.316
60.0	2.158
60.5	2.026
61.0	1.895
61.5	1.763
62.0	1.684
62.5	1.553
63.0	1.474
63.5	1.368
64.0	1.289
64.5	1.211
65.0	1.132
65.5	1.079
66.0	1.000
66.5	0.974
67.0	0.895
67.5	0.842
68.0	0.789
68.5	0.737
69.0	0.684
69.5	0.658
70.0	0.632
70.5	0.579
71.0	0.526
71.5	0.526
72.0	0.474
72.5	0.447
73.0	0.395
73.5	0.368
74.0	0.342
74.5	0.342
75.0	0.316
75.5	0.289
76.0	0.289
76.5	0.263
77.0	0.237
77.5	0.237
78.0	0.211
78.5	0.184
79.0	0.184
79.5	0.184
80.0	0.158
80.5	0.132
81.0	0.158
81.5	0.132
82.0	0.132
82.5	0.132

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83.0	0.105
83.5	0.105
84.0	0.079
84.5	0.079
85.0	0.079
85.5	0.079
86.0	0.079
86.5	0.053
87.0	0.053
87.5	0.053
88.0	0.053
88.5	0.053
89.0	0.053
89.5	0.053
90.0	0.026
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**PHOTOMETRIC FILENAME : 6CR-TL-L40-835-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX_EM MODE ONLY.IES****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
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	522.63	N.A.	51.40
0-30	906.79	N.A.	89.10
0-40	997.04	N.A.	98.00
0-60	1015.54	N.A.	99.80
0-80	1017.1	N.A.	100.00
0-90	1017.2	N.A.	100.00
10-90	839.77	N.A.	82.60
20-40	474.41	N.A.	46.60
20-50	488.70	N.A.	48.00
40-70	19.71	N.A.	1.90
60-80	1.56	N.A.	0.20
70-80	0.36	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	1017.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	177.43
10-20	345.20
20-30	384.16
30-40	90.25
40-50	14.29
50-60	4.22
60-70	1.20
70-80	0.36
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	99	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	68	74	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

UGR Viewed Endwise

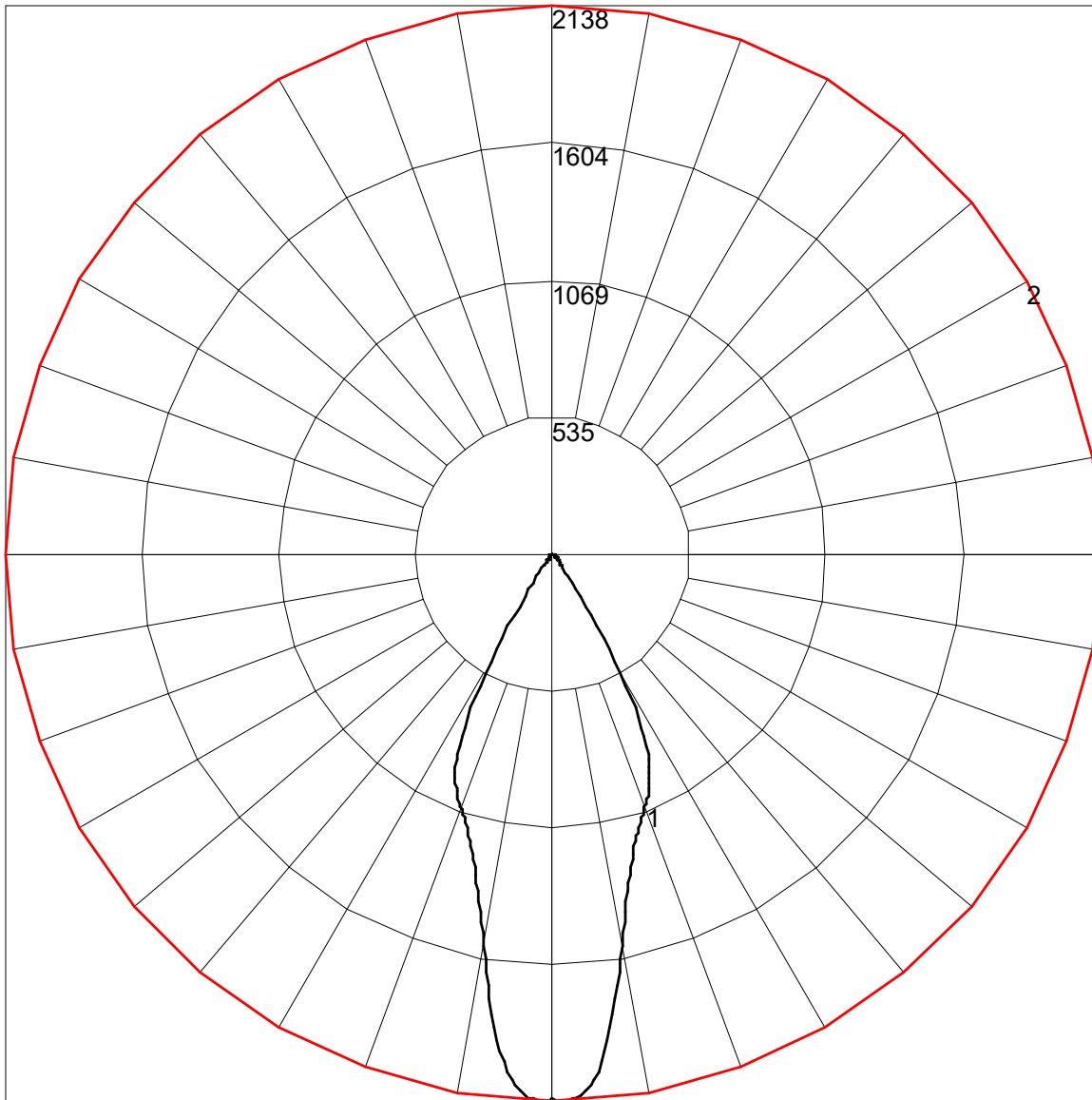
4H	2H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8H	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12H	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Maximum UGR = 0.1

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POLAR GRAPH



Maximum Candela = 2138.421 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.)