



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L15-940-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX_EM MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12316380.04
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 26-JAN-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6CR-TL-L15-940-EM10W-xxx-DIM-UNV-OM-CS-xx (EMERGENCY MODE)
 [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	1062
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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)	0.76
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	2637	2637	2637
55	765	765	765
65	269	269	269
75	120	120	120
85	59	59	59

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CANDELA TABULATION

	<u>0</u>
0.0	2148.932
0.5	2150.523
1.0	2156.889
1.5	2162.724
2.0	2175.986
2.5	2184.473
3.0	2186.065
3.5	2186.595
4.0	2174.394
4.5	2157.950
5.0	2126.652
5.5	2086.867
6.0	2042.307
6.5	1992.443
7.0	1938.335
7.5	1882.106
8.0	1824.285
8.5	1766.994
9.0	1710.764
9.5	1656.126
10.0	1604.140
10.5	1555.337
11.0	1509.716
11.5	1466.748
12.0	1425.902
12.5	1387.708
13.0	1351.636
13.5	1317.156
14.0	1284.267
14.5	1254.030
15.0	1226.445
15.5	1202.044
16.0	1181.886
16.5	1163.850
17.0	1146.875
17.5	1132.022
18.0	1118.760
18.5	1107.620
19.0	1099.663
19.5	1092.767
20.0	1086.932
20.5	1080.036
21.0	1073.140
21.5	1065.713
22.0	1057.756
22.5	1047.677
23.0	1035.476
23.5	1020.623
24.0	1002.057
24.5	977.655
25.0	949.540
25.5	919.834
26.0	890.658
26.5	858.300

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6CR-TL-L15-940-EM10W-REMOTE-XXX-DIM-UNV-OM-CS-XX_EM MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

27.0	824.350
27.5	785.625
28.0	741.596
28.5	693.324
29.0	642.929
29.5	591.473
30.0	536.835
30.5	480.234
31.0	420.981
31.5	361.939
32.0	305.179
32.5	252.079
33.0	205.875
33.5	166.461
34.0	133.254
34.5	105.670
35.0	83.284
35.5	66.415
36.0	55.593
36.5	49.917
37.0	46.522
37.5	43.552
38.0	40.952
38.5	38.565
39.0	36.390
39.5	34.427
40.0	32.571
40.5	30.820
41.0	29.176
41.5	27.691
42.0	26.258
42.5	24.932
43.0	23.606
43.5	22.439
44.0	21.272
44.5	20.158
45.0	19.150
45.5	18.142
46.0	17.134
46.5	16.179
47.0	15.171
47.5	14.217
48.0	13.315
48.5	12.466
49.0	11.617
49.5	10.769
50.0	9.920
50.5	9.124
51.0	8.434
51.5	7.798
52.0	7.161
52.5	6.631
53.0	6.100
53.5	5.676
54.0	5.252
54.5	4.827

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55.0	4.509
55.5	4.191
56.0	3.872
56.5	3.607
57.0	3.342
57.5	3.130
58.0	2.918
58.5	2.705
59.0	2.546
59.5	2.387
60.0	2.228
60.5	2.069
61.0	1.963
61.5	1.804
62.0	1.698
62.5	1.591
63.0	1.485
63.5	1.432
64.0	1.326
64.5	1.220
65.0	1.167
65.5	1.114
66.0	1.008
66.5	0.955
67.0	0.902
67.5	0.849
68.0	0.796
68.5	0.743
69.0	0.690
69.5	0.637
70.0	0.584
70.5	0.584
71.0	0.530
71.5	0.477
72.0	0.424
72.5	0.424
73.0	0.371
73.5	0.371
74.0	0.318
74.5	0.318
75.0	0.318
75.5	0.265
76.0	0.265
76.5	0.212
77.0	0.212
77.5	0.212
78.0	0.159
78.5	0.159
79.0	0.159
79.5	0.159
80.0	0.106
80.5	0.106
81.0	0.106
81.5	0.106
82.0	0.106
82.5	0.106

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83.0	0.106
83.5	0.053
84.0	0.053
84.5	0.053
85.0	0.053
85.5	0.053
86.0	0.053
86.5	0.053
87.0	0.053
87.5	0.053
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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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	535.69	N.A.	50.40
0-30	946.16	N.A.	89.10
0-40	1040.91	N.A.	98.00
0-60	1060.42	N.A.	99.80
0-80	1061.97	N.A.	100.00
0-90	1062.03	N.A.	100.00
10-90	878.02	N.A.	82.70
20-40	505.22	N.A.	47.60
20-50	520.29	N.A.	49.00
40-70	20.73	N.A.	2.00
60-80	1.55	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	1062.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	184.01
10-20	351.68
20-30	410.47
30-40	94.75
40-50	15.08
50-60	4.43
60-70	1.22
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	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

X=2H	Y=2H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	3H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	12H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

UGR Viewed Endwise

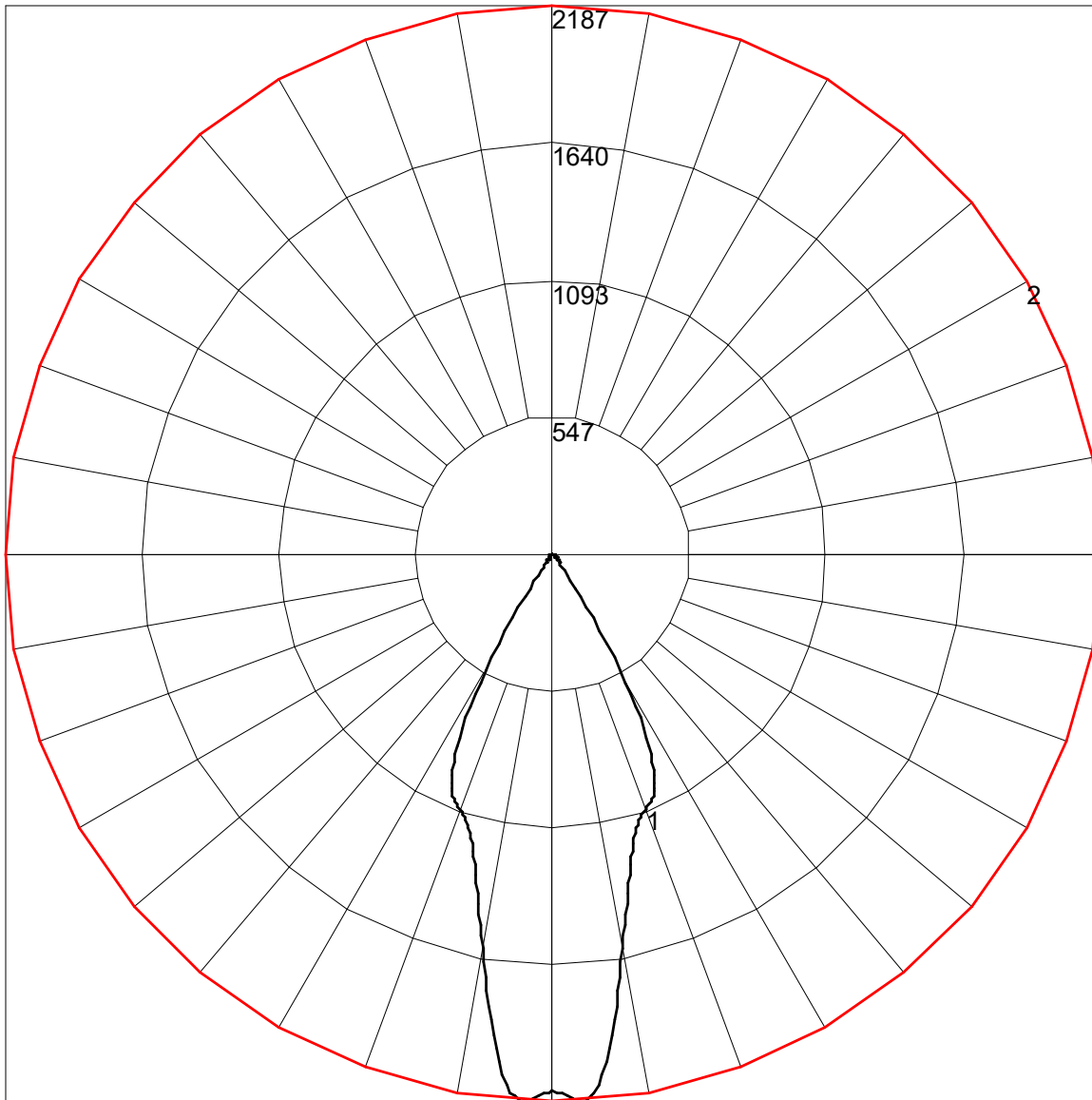
4H	2H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	3H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	12H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
8H	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	12H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
12H	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Maximum UGR = 0.3

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POLAR GRAPH



Maximum Candela = 2186.595 Located At Horizontal Angle = 0, Vertical Angle = 3.5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)