



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-P44-835-XXX-POE-SW-WH-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12316380.07  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 28-JAN-2021  
 [MANUFAC] WILLIAMS INDOOR - CARTHAGE, MO.  
 [LUMCAT] 6CR-TL-P44-835-xxx-POE-SW-WH-xx  
 [LUMINAIRE] 6" DIA. SURFACE CYLINDER  
 [LAMP] One white LED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3429
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 ft (Diameter)
Luminous Width (90-270)	0.35 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	94632	94632	94632
55	77759	77759	77759
65	56886	56886	56886
75	39381	39381	39381
85	21468	21468	21468

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CANDELA TABULATION

	<u>0</u>
0.0	2408.864
0.5	2408.103
1.0	2406.581
1.5	2404.552
2.0	2402.522
2.5	2400.239
3.0	2397.194
3.5	2395.418
4.0	2394.150
4.5	2393.389
5.0	2392.374
5.5	2391.359
6.0	2390.598
6.5	2389.583
7.0	2388.822
7.5	2388.315
8.0	2388.061
8.5	2387.300
9.0	2386.539
9.5	2385.017
10.0	2384.002
10.5	2382.226
11.0	2380.450
11.5	2378.167
12.0	2375.630
12.5	2372.586
13.0	2369.034
13.5	2364.975
14.0	2359.901
14.5	2353.812
15.0	2346.455
15.5	2337.575
16.0	2327.681
16.5	2316.011
17.0	2303.326
17.5	2289.119
18.0	2272.375
18.5	2255.123
19.0	2236.350
19.5	2215.293
20.0	2192.206
20.5	2167.090
21.0	2139.944
21.5	2110.769
22.0	2078.549
22.5	2044.300
23.0	2007.514
23.5	1967.937
24.0	1925.316
24.5	1879.904
25.0	1830.686
25.5	1779.186
26.0	1724.133
26.5	1665.782

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CANDELA TABULATION - (Cont.)

27.0	1605.402
27.5	1542.485
28.0	1478.553
28.5	1414.367
29.0	1351.450
29.5	1289.802
30.0	1230.436
30.5	1174.623
31.0	1122.361
31.5	1074.666
32.0	1031.283
32.5	992.214
33.0	957.457
33.5	926.506
34.0	898.853
34.5	874.498
35.0	852.426
35.5	832.384
36.0	814.625
36.5	797.881
37.0	782.659
37.5	768.452
38.0	755.260
38.5	742.575
39.0	730.905
39.5	719.488
40.0	708.833
40.5	698.177
41.0	688.030
41.5	678.135
42.0	668.748
42.5	659.362
43.0	649.975
43.5	640.588
44.0	631.201
44.5	621.814
45.0	612.427
45.5	603.041
46.0	593.654
46.5	584.267
47.0	574.373
47.5	564.479
48.0	554.584
48.5	544.436
49.0	534.035
49.5	523.633
50.0	513.485
50.5	503.084
51.0	492.682
51.5	482.280
52.0	472.132
52.5	461.984
53.0	451.583
53.5	440.927
54.0	430.018
54.5	419.109

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**CANDELA TABULATION - (Cont.)**

<b>55.0</b>	408.200
<b>55.5</b>	397.291
<b>56.0</b>	386.636
<b>56.5</b>	376.234
<b>57.0</b>	365.833
<b>57.5</b>	355.431
<b>58.0</b>	345.283
<b>58.5</b>	335.389
<b>59.0</b>	325.495
<b>59.5</b>	315.854
<b>60.0</b>	306.467
<b>60.5</b>	297.081
<b>61.0</b>	287.947
<b>61.5</b>	279.068
<b>62.0</b>	270.189
<b>62.5</b>	261.309
<b>63.0</b>	252.836
<b>63.5</b>	244.413
<b>64.0</b>	236.142
<b>64.5</b>	227.999
<b>65.0</b>	220.032
<b>65.5</b>	212.269
<b>66.0</b>	204.608
<b>66.5</b>	197.149
<b>67.0</b>	189.868
<b>67.5</b>	182.713
<b>68.0</b>	175.787
<b>68.5</b>	169.014
<b>69.0</b>	162.240
<b>69.5</b>	155.695
<b>70.0</b>	149.327
<b>70.5</b>	143.060
<b>71.0</b>	136.946
<b>71.5</b>	130.984
<b>72.0</b>	125.225
<b>72.5</b>	119.543
<b>73.0</b>	114.012
<b>73.5</b>	108.634
<b>74.0</b>	103.357
<b>74.5</b>	98.257
<b>75.0</b>	93.285
<b>75.5</b>	88.465
<b>76.0</b>	83.746
<b>76.5</b>	79.154
<b>77.0</b>	74.765
<b>77.5</b>	70.401
<b>78.0</b>	66.190
<b>78.5</b>	62.105
<b>79.0</b>	58.097
<b>79.5</b>	54.241
<b>80.0</b>	50.461
<b>80.5</b>	46.782
<b>81.0</b>	43.154
<b>81.5</b>	39.628
<b>82.0</b>	36.177
<b>82.5</b>	32.829

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PHOTOMETRIC FILENAME : 6CR-TL-P44-835-XXX-POE-SW-WH-XX\_.IES

CANDELA TABULATION - (Cont.)

83.0	29.505
83.5	26.283
84.0	23.137
84.5	20.068
85.0	17.125
85.5	14.283
86.0	11.569
86.5	9.006
87.0	6.748
87.5	4.871
88.0	3.400
88.5	2.156
89.0	1.345
89.5	0.913
90.0	0.634
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  
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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
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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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PHOTOMETRIC FILENAME : 6CR-TL-P44-835-XXX-POE-SW-WH-XX\_.IES

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
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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

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
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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	884.82	N.A.	25.80
0-30	1697.19	N.A.	49.50
0-40	2250.54	N.A.	65.60
0-60	3087.02	N.A.	90.00
0-80	3407.67	N.A.	99.40
0-90	3429.11	N.A.	100.00
10-90	3200.95	N.A.	93.30
20-40	1365.72	N.A.	39.80
20-50	1837.37	N.A.	53.60
40-70	1056.48	N.A.	30.80
60-80	320.65	N.A.	9.40
70-80	100.64	N.A.	2.90
80-90	21.45	N.A.	0.60
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3429.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	228.16
10-20	656.66
20-30	812.37
30-40	553.36
40-50	471.65
50-60	364.82
60-70	220.01
70-80	100.64
80-90	21.45
90-100	0.02
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

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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	24.9	26.3	25.3	26.6	26.9	24.9	26.3	25.3	26.6	26.9
	3H	26.0	27.2	26.4	27.6	27.9	26.0	27.2	26.4	27.6	27.9
	4H	26.4	27.5	26.8	27.9	28.2	26.4	27.5	26.8	27.9	28.2
	6H	26.6	27.6	27.0	28.0	28.4	26.6	27.6	27.0	28.0	28.4
	8H	26.6	27.6	27.1	28.0	28.4	26.6	27.6	27.1	28.0	28.4
	12H	26.6	27.6	27.1	28.0	28.4	26.6	27.6	27.1	28.0	28.4

UGR Viewed Endwise

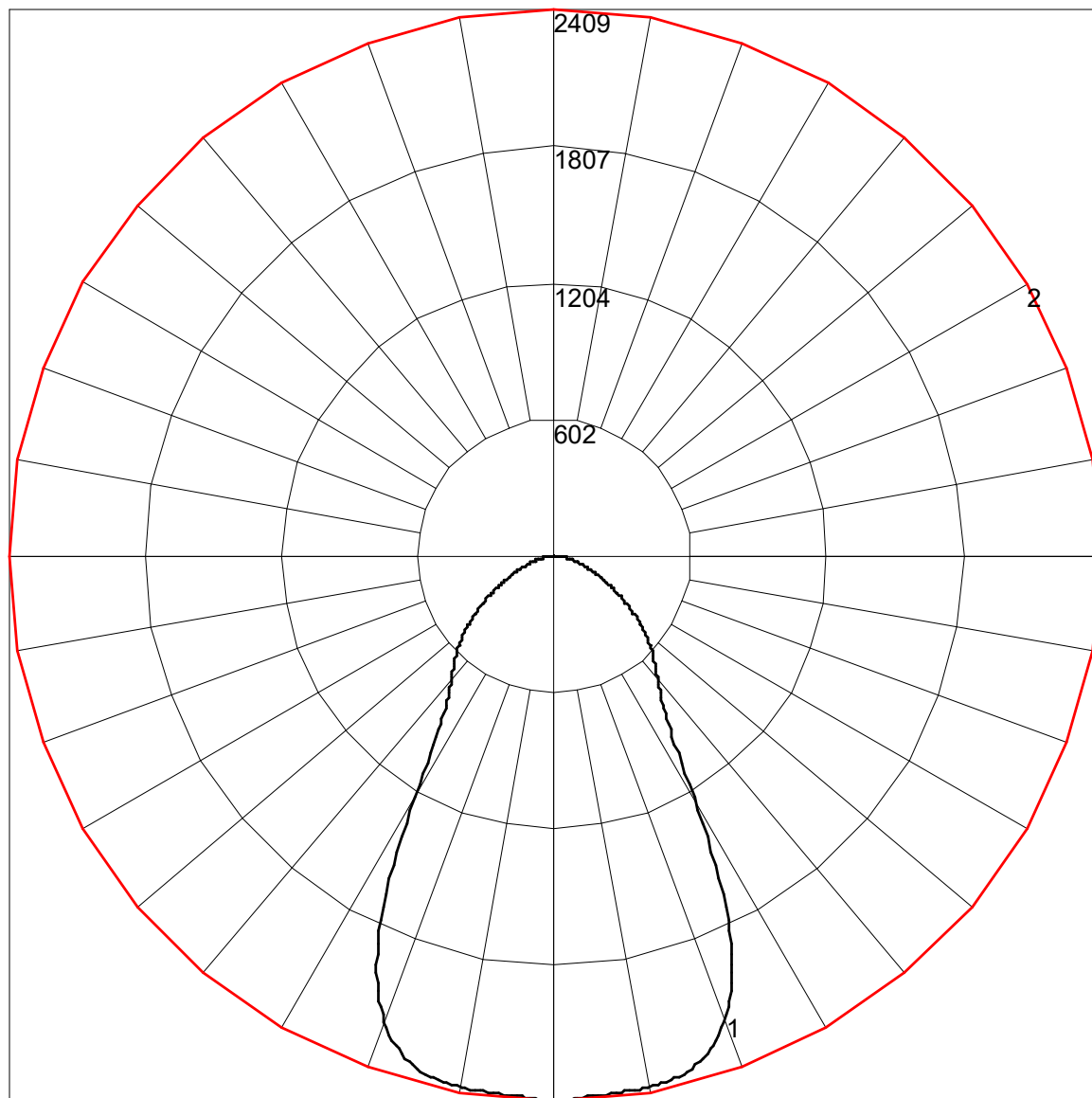
4H	2H	25.3	26.4	25.7	26.8	27.1	25.3	26.4	25.7	26.8	27.1
	3H	26.6	27.5	27.0	27.9	28.3	26.6	27.5	27.0	27.9	28.3
	4H	27.0	27.9	27.4	28.3	28.7	27.0	27.9	27.4	28.3	28.7
	6H	27.3	28.1	27.8	28.5	29.0	27.3	28.1	27.8	28.5	29.0
	8H	27.4	28.1	27.9	28.5	29.0	27.4	28.1	27.9	28.5	29.0
	12H	27.4	28.0	27.9	28.5	29.0	27.4	28.0	27.9	28.5	29.0

8H	4H	27.1	27.8	27.6	28.3	28.7	27.1	27.8	27.6	28.3	28.7
	6H	27.5	28.1	28.0	28.6	29.1	27.5	28.1	28.0	28.6	29.1
	8H	27.6	28.1	28.2	28.7	29.1	27.6	28.1	28.2	28.7	29.1
	12H	27.7	28.2	28.2	28.6	29.2	27.7	28.2	28.2	28.6	29.2

12H	4H	27.1	27.7	27.6	28.2	28.7	27.1	27.7	27.6	28.2	28.7
	6H	27.5	28.0	28.1	28.5	29.0	27.5	28.0	28.1	28.5	29.0
	8H	27.7	28.1	28.2	28.6	29.2	27.7	28.1	28.2	28.6	29.2

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 2408.864 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)