



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-P29-835-XXX-POE-OM-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN From 12326812.04
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 29-JAN-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 8CR-TL-P29-835-xxx-DIM-PoE-OM-CS-xx
 [LUMINAIRE] 8" DIA. SURFACE CYLINDER
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 25.5 C, 120.067 V, 0.160092 A, 19.1077 W, 0.994065 PF, 59.9709
 [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	2855
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	5152	5152	5152
55	1897	1897	1897
65	746	746	746
75	335	335	335
85	271	271	271

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CANDELA TABULATION

	<u>0</u>
0.0	5777.669
0.5	5786.307
1.0	5803.584
1.5	5813.662
2.0	5838.138
2.5	5848.216
3.0	5865.493
3.5	5869.812
4.0	5856.854
4.5	5787.747
5.0	5718.639
5.5	5645.213
6.0	5527.154
6.5	5409.096
7.0	5283.839
7.5	5142.744
8.0	4978.614
8.5	4810.165
9.0	4635.956
9.5	4466.067
10.0	4309.136
10.5	4170.921
11.0	4051.423
11.5	3949.201
12.0	3848.420
12.5	3749.078
13.0	3654.055
13.5	3564.791
14.0	3484.166
14.5	3412.179
15.0	3347.391
15.5	3285.482
16.0	3225.013
16.5	3161.665
17.0	3096.877
17.5	3032.088
18.0	2973.059
18.5	2921.228
19.0	2867.958
19.5	2813.248
20.0	2752.779
20.5	2687.991
21.0	2621.763
21.5	2554.095
22.0	2482.108
22.5	2413.001
23.0	2339.574
23.5	2264.708
24.0	2186.962
24.5	2109.216
25.0	2032.910
25.5	1956.604
26.0	1886.057
26.5	1818.389

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CANDELA TABULATION - (Cont.)

27.0	1755.041
27.5	1694.572
28.0	1639.862
28.5	1590.911
29.0	1544.839
29.5	1500.207
30.0	1444.057
30.5	1373.798
31.0	1293.173
31.5	1204.485
32.0	1114.501
32.5	1023.942
33.0	933.382
33.5	838.359
34.0	741.897
34.5	653.929
35.0	569.416
35.5	489.655
36.0	412.917
36.5	344.241
37.0	287.948
37.5	248.355
38.0	227.047
38.5	212.649
39.0	198.252
39.5	182.991
40.0	166.722
40.5	149.445
41.0	132.888
41.5	117.483
42.0	104.381
42.5	94.015
43.0	85.952
43.5	79.761
44.0	74.578
44.5	70.403
45.0	66.516
45.5	63.204
46.0	60.037
46.5	57.158
47.0	54.278
47.5	51.543
48.0	48.807
48.5	46.072
49.0	43.336
49.5	40.889
50.0	38.585
50.5	36.281
51.0	34.122
51.5	31.962
52.0	29.803
52.5	27.931
53.0	26.059
53.5	24.332
54.0	22.748
54.5	21.308

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CANDELA TABULATION - (Cont.)

55.0	19.868
55.5	18.717
56.0	17.421
56.5	16.413
57.0	15.405
57.5	14.397
58.0	13.534
58.5	12.670
59.0	11.950
59.5	11.230
60.0	10.510
60.5	9.790
61.0	9.214
61.5	8.638
62.0	8.207
62.5	7.775
63.0	7.199
63.5	6.911
64.0	6.479
64.5	6.047
65.0	5.759
65.5	5.327
66.0	5.039
66.5	4.751
67.0	4.463
67.5	4.175
68.0	4.031
68.5	3.743
69.0	3.455
69.5	3.311
70.0	3.167
70.5	2.879
71.0	2.736
71.5	2.592
72.0	2.448
72.5	2.304
73.0	2.160
73.5	2.016
74.0	1.872
74.5	1.728
75.0	1.584
75.5	1.584
76.0	1.440
76.5	1.296
77.0	1.296
77.5	1.152
78.0	1.152
78.5	1.008
79.0	1.008
79.5	0.864
80.0	0.864
80.5	0.720
81.0	0.720
81.5	0.720
82.0	0.576
82.5	0.576

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CANDELA TABULATION - (Cont.)

83.0	0.576
83.5	0.432
84.0	0.432
84.5	0.432
85.0	0.432
85.5	0.288
86.0	0.288
86.5	0.288
87.0	0.288
87.5	0.288
88.0	0.144
88.5	0.144
89.0	0.144
89.5	0.144
90.0	0.144
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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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
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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
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1440.84	N.A.	50.50
0-30	2374.16	N.A.	83.20
0-40	2769.1	N.A.	97.00
0-60	2846.71	N.A.	99.70
0-80	2854.53	N.A.	100.00
0-90	2854.97	N.A.	100.00
10-90	2357.15	N.A.	82.60
20-40	1328.26	N.A.	46.50
20-50	1386.8	N.A.	48.60
40-70	83.58	N.A.	2.90
60-80	7.81	N.A.	0.30
70-80	1.85	N.A.	0.10
80-90	0.44	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	2854.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	497.82
10-20	943.02
20-30	933.32
30-40	394.94
40-50	58.54
50-60	19.07
60-70	5.96
70-80	1.85
80-90	0.44
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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	84	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	75	73	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	75	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	62
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

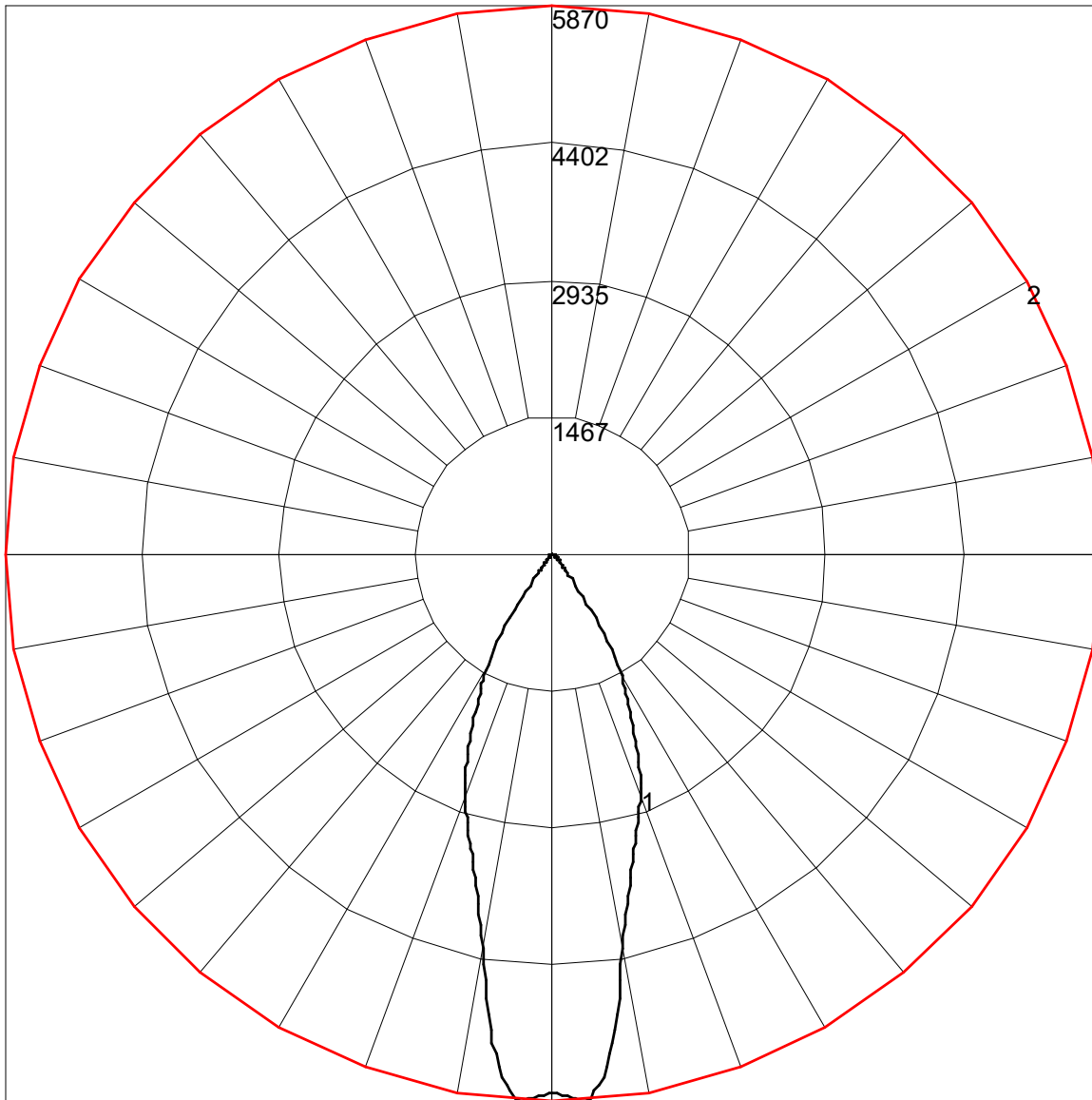
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UGR TABLE - CORRECTED

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	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	3H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	12H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
4H	2H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	3H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	12H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
8H	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	12H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
12H	4H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	6H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	8H	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7

Maximum UGR = 3.7

POLAR GRAPH



Maximum Candela = 5869.812 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.)