



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.05
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 29-JAN-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMCAT] 8CR-TL-P20-835-xxx-DIM-PoE-ON-CS-xx
 [LUMINAIRE] 8" DIA. SURFACE CYLINDER
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 25 C, 119.973 V, 0.160074 A, 19.0907 W, 0.994073 PF, 59.9705 H
 [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	2731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
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	1357	1357	1357
55	515	515	515
65	175	175	175
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	29655.471
0.5	29331.957
1.0	28280.536
1.5	26797.762
2.0	25112.792
2.5	23360.424
3.0	21486.737
3.5	19505.212
4.0	17402.370
4.5	15286.047
5.0	13250.604
5.5	11591.245
6.0	10260.793
6.5	9171.628
7.0	8248.265
7.5	7455.655
8.0	6762.795
8.5	6154.858
9.0	5621.060
9.5	5154.660
10.0	4752.963
10.5	4405.185
11.0	4099.195
11.5	3836.340
12.0	3607.184
12.5	3407.683
13.0	3235.142
13.5	3085.517
14.0	2954.763
14.5	2840.185
15.0	2739.087
15.5	2648.773
16.0	2566.546
16.5	2492.408
17.0	2425.009
17.5	2361.654
18.0	2306.387
18.5	2255.164
19.0	2203.941
19.5	2152.718
20.0	2100.147
20.5	2044.880
21.0	1986.917
21.5	1924.910
22.0	1854.815
22.5	1777.980
23.0	1693.058
23.5	1606.787
24.0	1524.561
24.5	1447.726
25.0	1376.283
25.5	1307.537
26.0	1245.530
26.5	1188.915

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CANDELA TABULATION - (Cont.)

27.0	1144.432
27.5	1109.384
28.0	1085.121
28.5	1066.249
29.0	1050.073
29.5	1035.246
30.0	1017.722
30.5	981.327
31.0	931.451
31.5	869.445
32.0	802.046
32.5	730.603
33.0	657.812
33.5	576.934
34.0	487.967
34.5	403.045
35.0	326.210
35.5	257.463
36.0	191.413
36.5	133.450
37.0	83.575
37.5	51.223
38.0	36.395
38.5	33.699
39.0	32.351
39.5	31.003
40.0	28.307
40.5	28.307
41.0	26.960
41.5	25.612
42.0	24.264
42.5	22.916
43.0	21.568
43.5	20.220
44.0	20.220
44.5	18.872
45.0	17.524
45.5	17.524
46.0	16.176
46.5	16.176
47.0	14.828
47.5	13.480
48.0	13.480
48.5	12.132
49.0	12.132
49.5	10.784
50.0	10.784
50.5	9.436
51.0	9.436
51.5	8.088
52.0	8.088
52.5	6.740
53.0	6.740
53.5	6.740
54.0	5.392
54.5	5.392

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CANDELA TABULATION - (Cont.)

55.0	5.392
55.5	5.392
56.0	5.392
56.5	4.044
57.0	4.044
57.5	4.044
58.0	4.044
58.5	4.044
59.0	2.696
59.5	2.696
60.0	2.696
60.5	2.696
61.0	2.696
61.5	2.696
62.0	2.696
62.5	2.696
63.0	2.696
63.5	1.348
64.0	1.348
64.5	1.348
65.0	1.348
65.5	1.348
66.0	1.348
66.5	1.348
67.0	1.348
67.5	1.348
68.0	1.348
68.5	1.348
69.0	1.348
69.5	1.348
70.0	1.348
70.5	1.348
71.0	1.348
71.5	1.348
72.0	1.348
72.5	1.348
73.0	1.348
73.5	1.348
74.0	0.000
74.5	0.000
75.0	0.000
75.5	0.000
76.0	0.000
76.5	0.000
77.0	0.000
77.5	0.000
78.0	0.000
78.5	0.000
79.0	0.000
79.5	0.000
80.0	0.000
80.5	0.000
81.0	0.000
81.5	0.000
82.0	0.000
82.5	0.000

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CANDELA TABULATION - (Cont.)

83.0	0.000
83.5	0.000
84.0	0.000
84.5	0.000
85.0	0.000
85.5	0.000
86.0	0.000
86.5	0.000
87.0	0.000
87.5	0.000
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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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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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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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	1813.95	N.A.	66.40
0-30	2468.49	N.A.	90.40
0-40	2708.99	N.A.	99.20
0-60	2728.29	N.A.	99.90
0-80	2730.58	N.A.	100.00
0-90	2730.58	N.A.	100.00
10-90	1717.41	N.A.	62.90
20-40	895.04	N.A.	32.80
20-50	909.27	N.A.	33.30
40-70	21.06	N.A.	0.80
60-80	2.29	N.A.	0.10
70-80	0.53	N.A.	0.00
80-90	0.00	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	2730.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1013.17
10-20	800.78
20-30	654.54
30-40	240.51
40-50	14.22
50-60	5.07
60-70	1.76
70-80	0.53
80-90	0.00
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	115	113	111	109	112	110	109	107	107	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	92
3	107	102	98	95	105	101	97	95	98	95	93	96	94	92	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	86	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	79	77	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70

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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

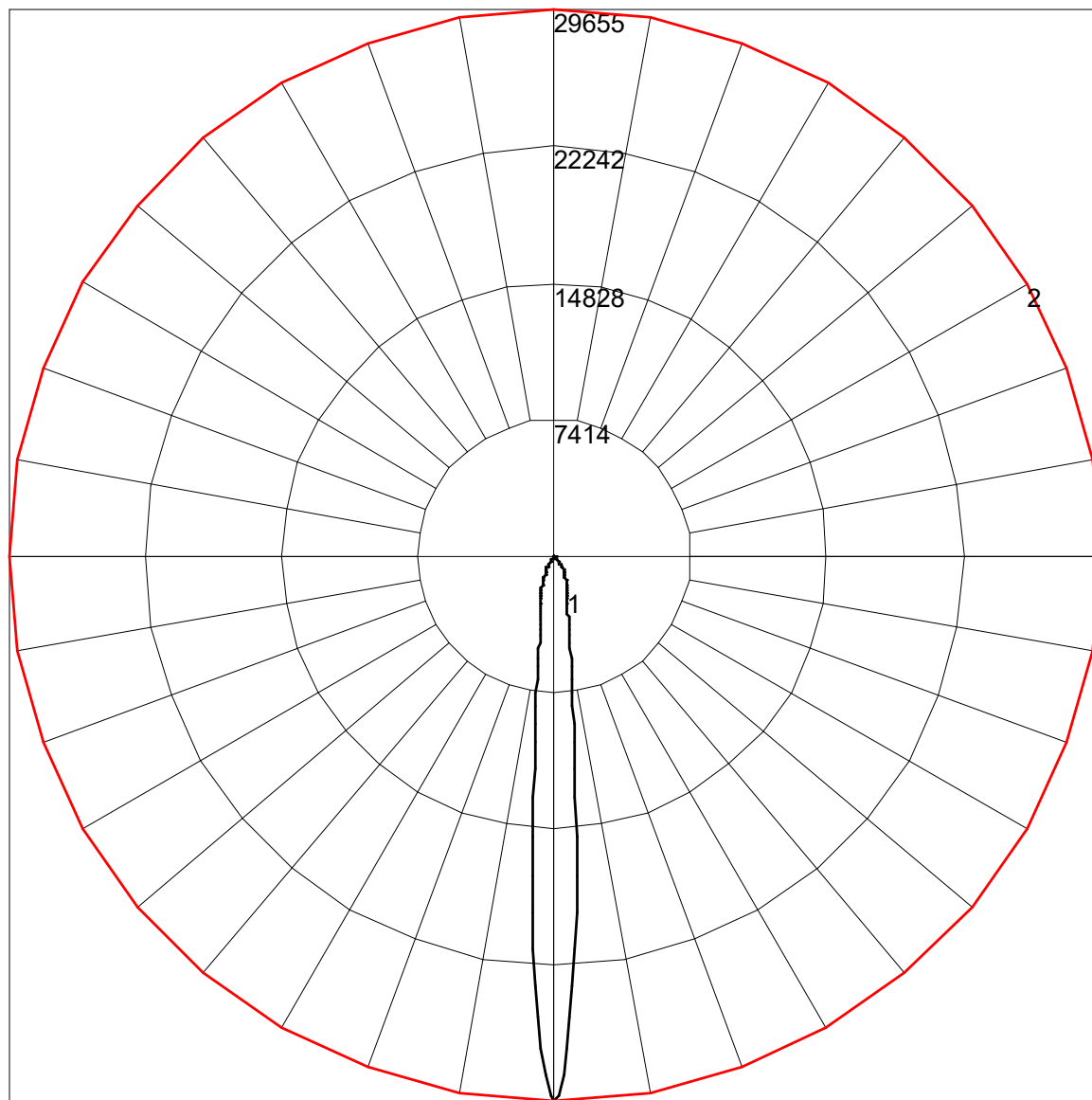
X=2H	Y=2H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	3H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	4H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	6H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	8H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	12H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

UGR Viewed Endwise

4H	2H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	3H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	4H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	6H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	8H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	12H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
8H	4H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	6H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	8H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	12H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
12H	4H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	6H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	8H	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8

Maximum UGR = 3.8

POLAR GRAPH



Maximum Candela = 29655.471 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.)