



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L25-9DW-XXX-DIM-UNV-ON-CS-XX_3000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.05
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 29-JAN-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMCAT] 8CR-TL-L25-9DW-xxx-DIM-UNV-ON-CS-xx
 [LUMINAIRE] 8" DIA. SURFACE CYLINDER
 [LAMP] One white LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	37.7
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	1252	1252	1252
55	475	475	475
65	161	161	161
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	27346.001
0.5	27047.681
1.0	26078.141
1.5	24710.841
2.0	23157.091
2.5	21541.191
3.0	19813.420
3.5	17986.210
4.0	16047.130
4.5	14095.620
5.0	12218.690
5.5	10688.557
6.0	9461.716
6.5	8457.372
7.0	7605.917
7.5	6875.033
8.0	6236.131
8.5	5675.538
9.0	5183.310
9.5	4753.232
10.0	4382.818
10.5	4062.124
11.0	3779.963
11.5	3537.578
12.0	3326.268
12.5	3142.304
13.0	2983.200
13.5	2845.227
14.0	2724.656
14.5	2619.001
15.0	2525.776
15.5	2442.495
16.0	2366.672
16.5	2298.307
17.0	2236.157
17.5	2177.736
18.0	2126.773
18.5	2079.539
19.0	2032.305
19.5	1985.071
20.0	1936.594
20.5	1885.631
21.0	1832.182
21.5	1775.004
22.0	1710.368
22.5	1639.517
23.0	1561.208
23.5	1481.656
24.0	1405.833
24.5	1334.982
25.0	1269.103
25.5	1205.710
26.0	1148.532
26.5	1096.326

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L25-9DW-XXX-DIM-UNV-ON-CS-XX_3000K.IES****CANDELA TABULATION - (Cont.)**

27.0	1055.307
27.5	1022.989
28.0	1000.615
28.5	983.213
29.0	968.297
29.5	954.624
30.0	938.465
30.5	904.904
31.0	858.913
31.5	801.735
32.0	739.585
32.5	673.706
33.0	606.584
33.5	532.004
34.0	449.966
34.5	371.657
35.0	300.806
35.5	237.413
36.0	176.506
36.5	123.057
37.0	77.066
37.5	47.234
38.0	33.561
38.5	31.075
39.0	29.832
39.5	28.589
40.0	26.103
40.5	26.103
41.0	24.860
41.5	23.617
42.0	22.374
42.5	21.131
43.0	19.888
43.5	18.645
44.0	18.645
44.5	17.402
45.0	16.159
45.5	16.159
46.0	14.916
46.5	14.916
47.0	13.673
47.5	12.430
48.0	12.430
48.5	11.187
49.0	11.187
49.5	9.944
50.0	9.944
50.5	8.701
51.0	8.701
51.5	7.458
52.0	7.458
52.5	6.215
53.0	6.215
53.5	6.215
54.0	4.972
54.5	4.972

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55.0	4.972
55.5	4.972
56.0	4.972
56.5	3.729
57.0	3.729
57.5	3.729
58.0	3.729
58.5	3.729
59.0	2.486
59.5	2.486
60.0	2.486
60.5	2.486
61.0	2.486
61.5	2.486
62.0	2.486
62.5	2.486
63.0	2.486
63.5	1.243
64.0	1.243
64.5	1.243
65.0	1.243
65.5	1.243
66.0	1.243
66.5	1.243
67.0	1.243
67.5	1.243
68.0	1.243
68.5	1.243
69.0	1.243
69.5	1.243
70.0	1.243
70.5	1.243
71.0	1.243
71.5	1.243
72.0	1.243
72.5	1.243
73.0	1.243
73.5	1.243
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L25-9DW-XXX-DIM-UNV-ON-CS-XX_3000K.IES****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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CR-TL-L25-9DW-XXX-DIM-UNV-ON-CS-XX_3000K.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	1672.68	N.A.	66.40
0-30	2276.25	N.A.	90.40
0-40	2498.02	N.A.	99.20
0-60	2515.82	N.A.	99.90
0-80	2517.93	N.A.	100.00
0-90	2517.93	N.A.	100.00
10-90	1583.67	N.A.	62.90
20-40	825.34	N.A.	32.80
20-50	838.46	N.A.	33.30
40-70	19.42	N.A.	0.80
60-80	2.11	N.A.	0.10
70-80	0.49	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	2517.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	934.26
10-20	738.42
20-30	603.56
30-40	221.78
40-50	13.12
50-60	4.68
60-70	1.62
70-80	0.49
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	111	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	93
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

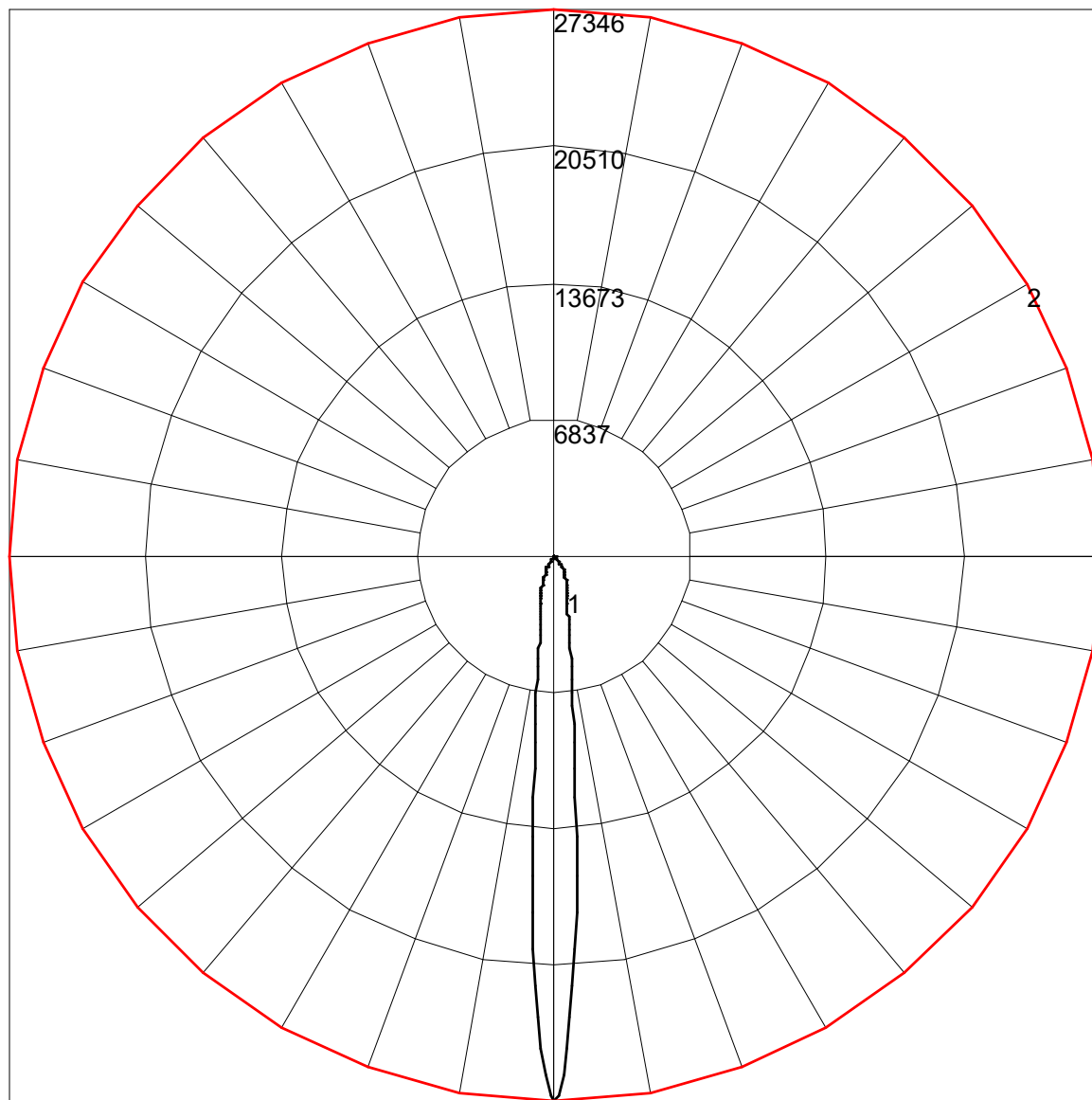
X=2H	Y=2H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	3H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	12H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

UGR Viewed Endwise

4H	2H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	3H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	12H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
8H	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	12H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
12H	4H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	6H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	8H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Maximum UGR = 3.5

POLAR GRAPH



Maximum Candela = 27346.001 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.)