



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-P29-835-XXX-POE-LM-WH-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.09
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 29-JAN-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 8CR-TL-P29-835-xxx-DIM-PoE-LM-WH-xx
 [LUMINAIRE] 8" DIA. SURFACE CYLINDER
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 24.9 C, 119.972 V, 0.160241 A, 19.1105 W, 0.994073 PF, 59.9701
 [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	2646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	11816	11816	11816
55	8652	8652	8652
65	7050	7050	7050
75	5738	5738	5738
85	3774	3774	3774

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CANDELA TABULATION

	<u>0</u>
0.0	6246.056
0.5	6243.177
1.0	6234.537
1.5	6221.579
2.0	6204.301
2.5	6179.823
3.0	6152.466
3.5	6120.790
4.0	6083.354
4.5	6044.478
5.0	6001.282
5.5	5952.327
6.0	5899.053
6.5	5840.019
7.0	5776.666
7.5	5707.553
8.0	5631.242
8.5	5549.170
9.0	5462.779
9.5	5370.629
10.0	5271.280
10.5	5166.171
11.0	5053.863
11.5	4932.916
12.0	4807.649
12.5	4675.183
13.0	4536.958
13.5	4391.533
14.0	4241.789
14.5	4086.286
15.0	3927.903
15.5	3766.640
16.0	3605.377
16.5	3442.674
17.0	3284.291
17.5	3125.908
18.0	2966.085
18.5	2809.141
19.0	2653.638
19.5	2503.894
20.0	2358.469
20.5	2218.804
21.0	2087.778
21.5	1962.511
22.0	1837.245
22.5	1719.177
23.0	1606.869
23.5	1500.321
24.0	1401.115
24.5	1307.237
25.0	1219.550
25.5	1136.903
26.0	1060.303
26.5	988.599

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CANDELA TABULATION - (Cont.)

27.0	921.934
27.5	860.165
28.0	802.571
28.5	749.296
29.0	699.910
29.5	653.835
30.0	611.215
30.5	571.475
31.0	534.615
31.5	500.347
32.0	468.382
32.5	438.721
33.0	411.076
33.5	385.303
34.0	361.546
34.5	339.516
35.0	318.926
35.5	300.064
36.0	282.498
36.5	266.516
37.0	251.685
37.5	238.151
38.0	225.912
38.5	214.537
39.0	204.170
39.5	194.667
40.0	186.028
40.5	177.965
41.0	170.622
41.5	163.855
42.0	157.519
42.5	151.760
43.0	146.288
43.5	141.249
44.0	136.641
44.5	132.178
45.0	128.002
45.5	124.115
46.0	120.515
46.5	117.060
47.0	113.748
47.5	110.580
48.0	107.701
48.5	104.821
49.0	102.085
49.5	99.493
50.0	97.046
50.5	94.598
51.0	92.294
51.5	89.990
52.0	87.831
52.5	85.815
53.0	83.655
53.5	81.639
54.0	79.768
54.5	77.896

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CANDELA TABULATION - (Cont.)

55.0	76.024
55.5	74.152
56.0	72.424
56.5	70.696
57.0	68.969
57.5	67.241
58.0	65.657
58.5	64.073
59.0	62.489
59.5	61.050
60.0	59.610
60.5	58.026
61.0	56.586
61.5	55.146
62.0	53.706
62.5	52.410
63.0	50.971
63.5	49.675
64.0	48.379
64.5	47.083
65.0	45.643
65.5	44.347
66.0	43.051
66.5	41.900
67.0	40.604
67.5	39.308
68.0	38.156
68.5	37.004
69.0	35.708
69.5	34.556
70.0	33.404
70.5	32.253
71.0	31.245
71.5	30.093
72.0	28.941
72.5	27.933
73.0	26.781
73.5	25.773
74.0	24.765
74.5	23.757
75.0	22.750
75.5	21.742
76.0	20.734
76.5	19.726
77.0	18.718
77.5	17.854
78.0	16.846
78.5	15.982
79.0	15.118
79.5	14.111
80.0	13.247
80.5	12.383
81.0	11.519
81.5	10.655
82.0	9.791
82.5	8.927

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CANDELA TABULATION - (Cont.)

83.0	8.207
83.5	7.343
84.0	6.623
84.5	5.759
85.0	5.039
85.5	4.320
86.0	3.600
86.5	3.024
87.0	2.448
87.5	2.016
88.0	1.584
88.5	1.296
89.0	1.008
89.5	0.720
90.0	0.432
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	1606.4	N.A.	60.70
0-30	2188.19	N.A.	82.70
0-40	2399.74	N.A.	90.70
0-60	2569.8	N.A.	97.10
0-80	2639.39	N.A.	99.80
0-90	2645.54	N.A.	100.00
10-90	2095.51	N.A.	79.20
20-40	793.34	N.A.	30.00
20-50	894.91	N.A.	33.80
40-70	215.49	N.A.	8.10
60-80	69.59	N.A.	2.60
70-80	24.17	N.A.	0.90
80-90	6.15	N.A.	0.20
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2645.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	550.04
10-20	1056.36
20-30	581.79
30-40	211.56
40-50	101.56
50-60	68.50
60-70	45.42
70-80	24.17
80-90	6.15
90-100	0.01
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	83	88	84	82	86	83	81	79
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

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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

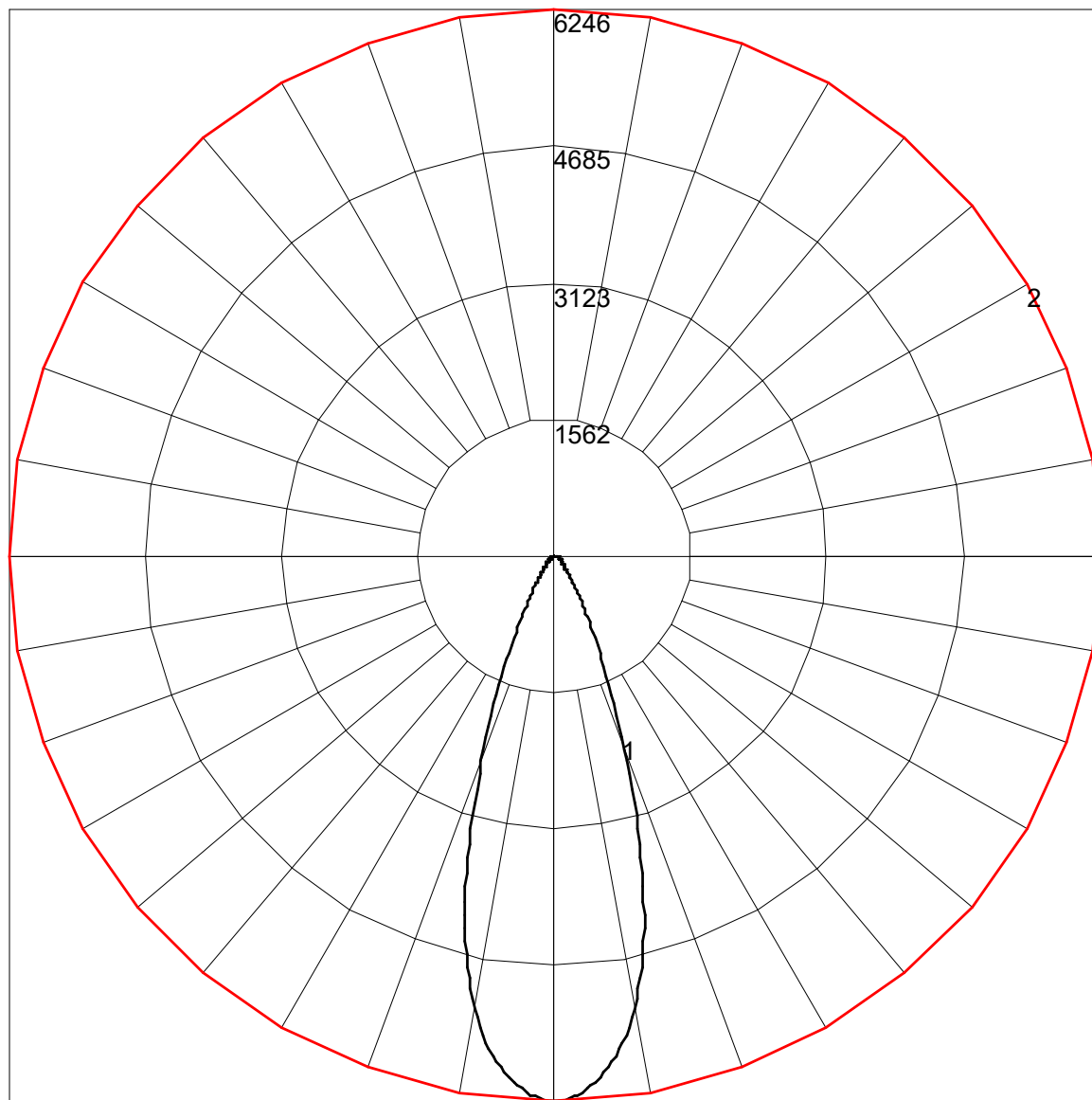
X=2H	Y=2H	12.9	13.9	13.2	14.2	14.5	12.9	13.9	13.2	14.2	14.5
	3H	14.3	15.2	14.7	15.5	15.9	14.3	15.2	14.7	15.5	15.9
	4H	14.8	15.6	15.2	16.0	16.4	14.8	15.6	15.2	16.0	16.4
	6H	15.1	15.9	15.6	16.3	16.7	15.1	15.9	15.6	16.3	16.7
	8H	15.2	15.9	15.7	16.3	16.7	15.2	15.9	15.7	16.3	16.7
	12H	15.3	15.9	15.7	16.3	16.8	15.3	15.9	15.7	16.3	16.8

UGR Viewed Endwise

4H	2H	13.3	14.1	13.7	14.5	14.9	13.3	14.1	13.7	14.5	14.9
	3H	14.9	15.6	15.3	16.0	16.4	14.9	15.6	15.3	16.0	16.4
	4H	15.5	16.1	15.9	16.5	17.0	15.5	16.1	15.9	16.5	17.0
	6H	16.0	16.5	16.4	16.9	17.4	16.0	16.5	16.4	16.9	17.4
	8H	16.1	16.6	16.6	17.0	17.5	16.1	16.6	16.6	17.0	17.5
	12H	16.2	16.6	16.6	17.1	17.5	16.2	16.6	16.6	17.1	17.5
8H	4H	15.7	16.2	16.2	16.6	17.1	15.7	16.2	16.2	16.6	17.1
	6H	16.2	16.6	16.8	17.1	17.6	16.2	16.6	16.8	17.1	17.6
	8H	16.4	16.8	17.0	17.3	17.8	16.4	16.8	17.0	17.3	17.8
	12H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9
12H	4H	15.7	16.1	16.2	16.6	17.0	15.7	16.1	16.2	16.6	17.0
	6H	16.3	16.6	16.8	17.1	17.6	16.3	16.6	16.8	17.1	17.6
	8H	16.5	16.8	17.0	17.3	17.9	16.5	16.8	17.0	17.3	17.9

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 6246.056 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.)