



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.14
 [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-RM-WH-xx
 [LUMINAIRE] 8" DIA. SURFACE CYLINDER
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 24.9 C, 119.97 V, 0.160076 A, 19.0904 W, 0.994063 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	2573
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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)	0.56
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 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	9249	9249	9249
55	6219	6219	6219
65	4628	4628	4628
75	3196	3196	3196
85	2669	2669	2669

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CANDELA TABULATION

	<u>0</u>
0.0	6227.467
0.5	6224.579
1.0	6215.916
1.5	6201.477
2.0	6181.263
2.5	6156.717
3.0	6126.395
3.5	6091.742
4.0	6054.201
4.5	6010.885
5.0	5964.680
5.5	5914.145
6.0	5857.833
6.5	5795.746
7.0	5729.328
7.5	5657.133
8.0	5579.164
8.5	5495.418
9.0	5405.898
9.5	5309.158
10.0	5208.086
10.5	5099.795
11.0	4984.284
11.5	4862.998
12.0	4735.936
12.5	4600.211
13.0	4461.598
13.5	4315.766
14.0	4165.602
14.5	4012.551
15.0	3853.724
15.5	3694.896
16.0	3533.182
16.5	3371.467
17.0	3212.640
17.5	3061.032
18.0	2905.092
18.5	2750.597
19.0	2598.989
19.5	2454.601
20.0	2317.432
20.5	2184.595
21.0	2054.645
21.5	1930.471
22.0	1810.629
22.5	1698.006
23.0	1591.159
23.5	1490.087
24.0	1395.080
24.5	1305.992
25.0	1222.103
25.5	1143.411
26.0	1069.917
26.5	1000.900

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CANDELA TABULATION - (Cont.)

27.0	936.647
27.5	876.581
28.0	820.270
28.5	768.001
29.0	718.909
29.5	672.994
30.0	629.822
30.5	589.537
31.0	551.852
31.5	516.477
32.0	483.412
32.5	452.369
33.0	423.202
33.5	395.913
34.0	370.212
34.5	346.388
35.0	324.152
35.5	303.360
36.0	284.012
36.5	266.108
37.0	249.503
37.5	234.198
38.0	220.048
38.5	207.053
39.0	195.069
39.5	184.095
40.0	174.132
40.5	165.036
41.0	156.661
41.5	149.009
42.0	141.934
42.5	135.436
43.0	129.372
43.5	123.885
44.0	118.687
44.5	114.067
45.0	109.591
45.5	105.548
46.0	101.649
46.5	98.040
47.0	94.719
47.5	91.687
48.0	88.799
48.5	86.055
49.0	83.456
49.5	80.857
50.0	78.547
50.5	76.381
51.0	74.216
51.5	72.194
52.0	70.317
52.5	68.296
53.0	66.563
53.5	64.830
54.0	63.098
54.5	61.365

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CANDELA TABULATION - (Cont.)

55.0	59.777
55.5	58.188
56.0	56.745
56.5	55.156
57.0	53.712
57.5	52.269
58.0	50.825
58.5	49.381
59.0	48.081
59.5	46.637
60.0	45.338
60.5	44.038
61.0	42.739
61.5	41.439
62.0	40.140
62.5	38.840
63.0	37.685
63.5	36.386
64.0	35.231
64.5	33.931
65.0	32.776
65.5	31.621
66.0	30.466
66.5	29.311
67.0	28.156
67.5	27.145
68.0	25.990
68.5	24.979
69.0	23.968
69.5	22.813
70.0	21.947
70.5	20.936
71.0	20.070
71.5	19.059
72.0	18.193
72.5	17.327
73.0	16.605
73.5	15.883
74.0	15.161
74.5	14.439
75.0	13.861
75.5	13.139
76.0	12.562
76.5	12.129
77.0	11.551
77.5	10.974
78.0	10.540
78.5	9.963
79.0	9.530
79.5	9.096
80.0	8.519
80.5	8.086
81.0	7.508
81.5	7.075
82.0	6.642
82.5	6.209

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CANDELA TABULATION - (Cont.)

83.0	5.776
83.5	5.198
84.0	4.765
84.5	4.332
85.0	3.898
85.5	3.465
86.0	3.177
86.5	2.743
87.0	2.310
87.5	1.877
88.0	1.444
88.5	1.155
89.0	1.011
89.5	0.722
90.0	0.578
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
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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
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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	1583.15	N.A.	61.50
0-30	2164.63	N.A.	84.10
0-40	2378.65	N.A.	92.40
0-60	2520.69	N.A.	98.00
0-80	2568.44	N.A.	99.80
0-90	2572.9	N.A.	100.00
10-90	2027.18	N.A.	78.80
20-40	795.50	N.A.	30.90
20-50	883.56	N.A.	34.30
40-70	174.70	N.A.	6.80
60-80	47.75	N.A.	1.90
70-80	15.09	N.A.	0.60
80-90	4.46	N.A.	0.20
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	2572.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	545.72
10-20	1037.43
20-30	581.48
30-40	214.02
40-50	88.06
50-60	53.98
60-70	32.66
70-80	15.09
80-90	4.46
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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
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	94	89	85	98	92	88	84	90	86	83	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70
8	86	77	72	69	85	77	72	69	76	72	68	75	71	68	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	71	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

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UGR TABLE - CORRECTED

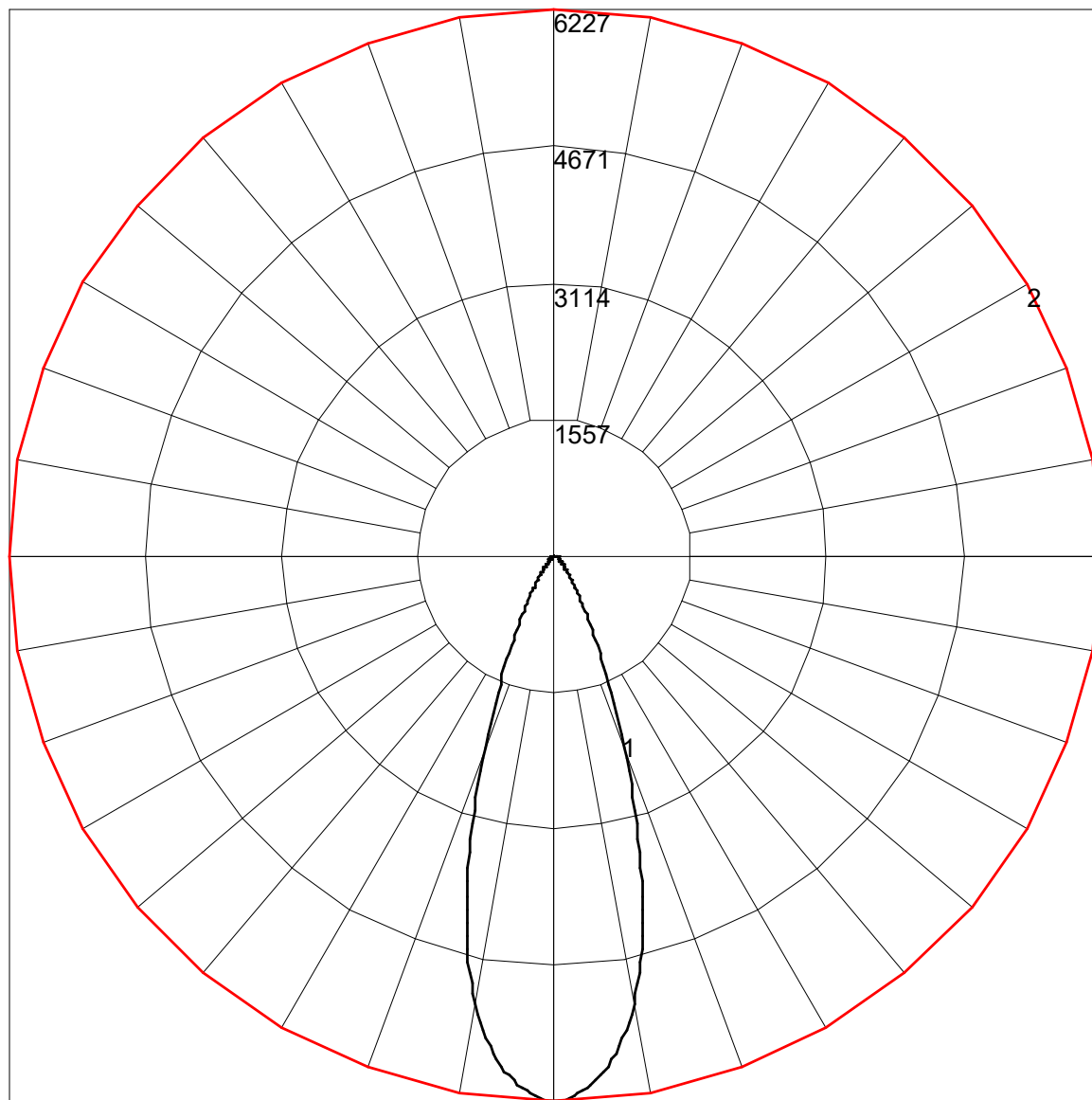
Reflectances

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	10.9	11.9	11.3	12.2	12.5	10.9	11.9	11.3	12.2	12.5
	3H	12.0	12.9	12.4	13.2	13.6	12.0	12.9	12.4	13.2	13.6
	4H	12.3	13.1	12.7	13.5	13.9	12.3	13.1	12.7	13.5	13.9
	6H	12.5	13.3	13.0	13.7	14.1	12.5	13.3	13.0	13.7	14.1
	8H	12.6	13.3	13.1	13.7	14.1	12.6	13.3	13.1	13.7	14.1
	12H	12.7	13.3	13.1	13.7	14.1	12.7	13.3	13.1	13.7	14.1
4H	2H	11.2	12.0	11.6	12.4	12.8	11.2	12.0	11.6	12.4	12.8
	3H	12.5	13.1	12.9	13.6	14.0	12.5	13.1	12.9	13.6	14.0
	4H	12.9	13.5	13.3	13.9	14.3	12.9	13.5	13.3	13.9	14.3
	6H	13.2	13.7	13.7	14.2	14.7	13.2	13.7	13.7	14.2	14.7
	8H	13.4	13.8	13.8	14.3	14.7	13.4	13.8	13.8	14.3	14.7
	12H	13.4	13.8	13.9	14.3	14.8	13.4	13.8	13.9	14.3	14.8
8H	4H	13.0	13.4	13.5	13.9	14.4	13.0	13.4	13.5	13.9	14.4
	6H	13.4	13.8	14.0	14.3	14.8	13.4	13.8	14.0	14.3	14.8
	8H	13.6	13.9	14.2	14.5	15.0	13.6	13.9	14.2	14.5	15.0
	12H	13.8	14.0	14.3	14.5	15.1	13.8	14.0	14.3	14.5	15.1
12H	4H	13.0	13.4	13.5	13.8	14.3	13.0	13.4	13.5	13.8	14.3
	6H	13.4	13.8	14.0	14.2	14.8	13.4	13.8	14.0	14.2	14.8
	8H	13.7	13.9	14.2	14.4	15.0	13.7	13.9	14.2	14.4	15.0

Maximum UGR = 15.1

POLAR GRAPH



Maximum Candela = 6227.467 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.)