



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-935-DIM-UNV-OM-OF-SPC-MWT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE]07-01-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMCAT] 6DR-TL-L15-935-DIM-UNV-OM-OF-SPC-MWT  
 [LUMINAIRE] Black formed aluminum housing, clear specular reflector, no lens  
 [MORE] enclosure  
 [LAMP] One white LED  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1250
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	13.8
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	2256	2256	2256
55	831	831	831
65	327	327	327
75	147	147	147
85	119	119	119

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CANDELA TABULATION

	<u>0</u>
0.0	2530.473
0.5	2534.256
1.0	2541.823
1.5	2546.237
2.0	2556.957
2.5	2561.371
3.0	2568.938
3.5	2570.829
4.0	2565.154
4.5	2534.887
5.0	2504.620
5.5	2472.461
6.0	2420.754
6.5	2369.047
7.0	2314.188
7.5	2252.392
8.0	2180.507
8.5	2106.731
9.0	2030.432
9.5	1956.025
10.0	1887.293
10.5	1826.758
11.0	1774.421
11.5	1729.651
12.0	1685.511
12.5	1642.001
13.0	1600.384
13.5	1561.289
14.0	1525.977
14.5	1494.448
15.0	1466.073
15.5	1438.958
16.0	1412.474
16.5	1384.729
17.0	1356.354
17.5	1327.978
18.0	1302.125
18.5	1279.424
19.0	1256.093
19.5	1232.132
20.0	1205.648
20.5	1177.272
21.0	1148.266
21.5	1118.629
22.0	1087.101
22.5	1056.834
23.0	1024.674
23.5	991.885
24.0	957.834
24.5	923.783
25.0	890.363
25.5	856.943
26.0	826.045
26.5	796.409

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L15-935-DIM-UNV-OM-OF-SPC-MWT\_.IES****CANDELA TABULATION - (Cont.)**

27.0	768.664
27.5	742.180
28.0	718.218
28.5	696.779
29.0	676.600
29.5	657.053
30.0	632.461
30.5	601.689
31.0	566.377
31.5	527.534
32.0	488.123
32.5	448.461
33.0	408.798
33.5	367.180
34.0	324.932
34.5	286.404
35.0	249.390
35.5	214.456
36.0	180.847
36.5	150.769
37.0	126.114
37.5	108.773
38.0	99.441
38.5	93.135
39.0	86.829
39.5	80.145
40.0	73.020
40.5	65.453
41.0	58.202
41.5	51.454
42.0	45.716
42.5	41.176
43.0	37.645
43.5	34.934
44.0	32.663
44.5	30.835
45.0	29.132
45.5	27.682
46.0	26.295
46.5	25.034
47.0	23.772
47.5	22.574
48.0	21.376
48.5	20.178
49.0	18.980
49.5	17.908
50.0	16.899
50.5	15.890
51.0	14.944
51.5	13.999
52.0	13.053
52.5	12.233
53.0	11.413
53.5	10.657
54.0	9.963
54.5	9.332

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**CANDELA TABULATION - (Cont.)**

55.0	8.702
55.5	8.197
56.0	7.630
56.5	7.188
57.0	6.747
57.5	6.306
58.0	5.927
58.5	5.549
59.0	5.234
59.5	4.918
60.0	4.603
60.5	4.288
61.0	4.036
61.5	3.783
62.0	3.594
62.5	3.405
63.0	3.153
63.5	3.027
64.0	2.838
64.5	2.648
65.0	2.522
65.5	2.333
66.0	2.207
66.5	2.081
67.0	1.955
67.5	1.829
68.0	1.766
68.5	1.639
69.0	1.513
69.5	1.450
70.0	1.387
70.5	1.261
71.0	1.198
71.5	1.135
72.0	1.072
72.5	1.009
73.0	0.946
73.5	0.883
74.0	0.820
74.5	0.757
75.0	0.694
75.5	0.694
76.0	0.631
76.5	0.568
77.0	0.568
77.5	0.504
78.0	0.504
78.5	0.441
79.0	0.441
79.5	0.378
80.0	0.378
80.5	0.315
81.0	0.315
81.5	0.315
82.0	0.252
82.5	0.252

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CANDELA TABULATION - (Cont.)

83.0	0.252
83.5	0.189
84.0	0.189
84.5	0.189
85.0	0.189
85.5	0.126
86.0	0.126
86.5	0.126
87.0	0.126
87.5	0.126
88.0	0.063
88.5	0.063
89.0	0.063
89.5	0.063
90.0	0.063
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  
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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

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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L15-935-DIM-UNV-OM-OF-SPC-MWT\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	631.05	N.A.	50.50
0-30	1039.82	N.A.	83.20
0-40	1212.8	N.A.	97.00
0-60	1246.79	N.A.	99.70
0-80	1250.21	N.A.	100.00
0-90	1250.4	N.A.	100.00
10-90	1032.37	N.A.	82.60
20-40	581.74	N.A.	46.50
20-50	607.38	N.A.	48.60
40-70	36.60	N.A.	2.90
60-80	3.42	N.A.	0.30
70-80	0.81	N.A.	0.10
80-90	0.19	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	1250.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	218.03
10-20	413.02
20-30	408.77
30-40	172.97
40-50	25.64
50-60	8.35
60-70	2.61
70-80	0.81
80-90	0.19
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	93	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	85	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

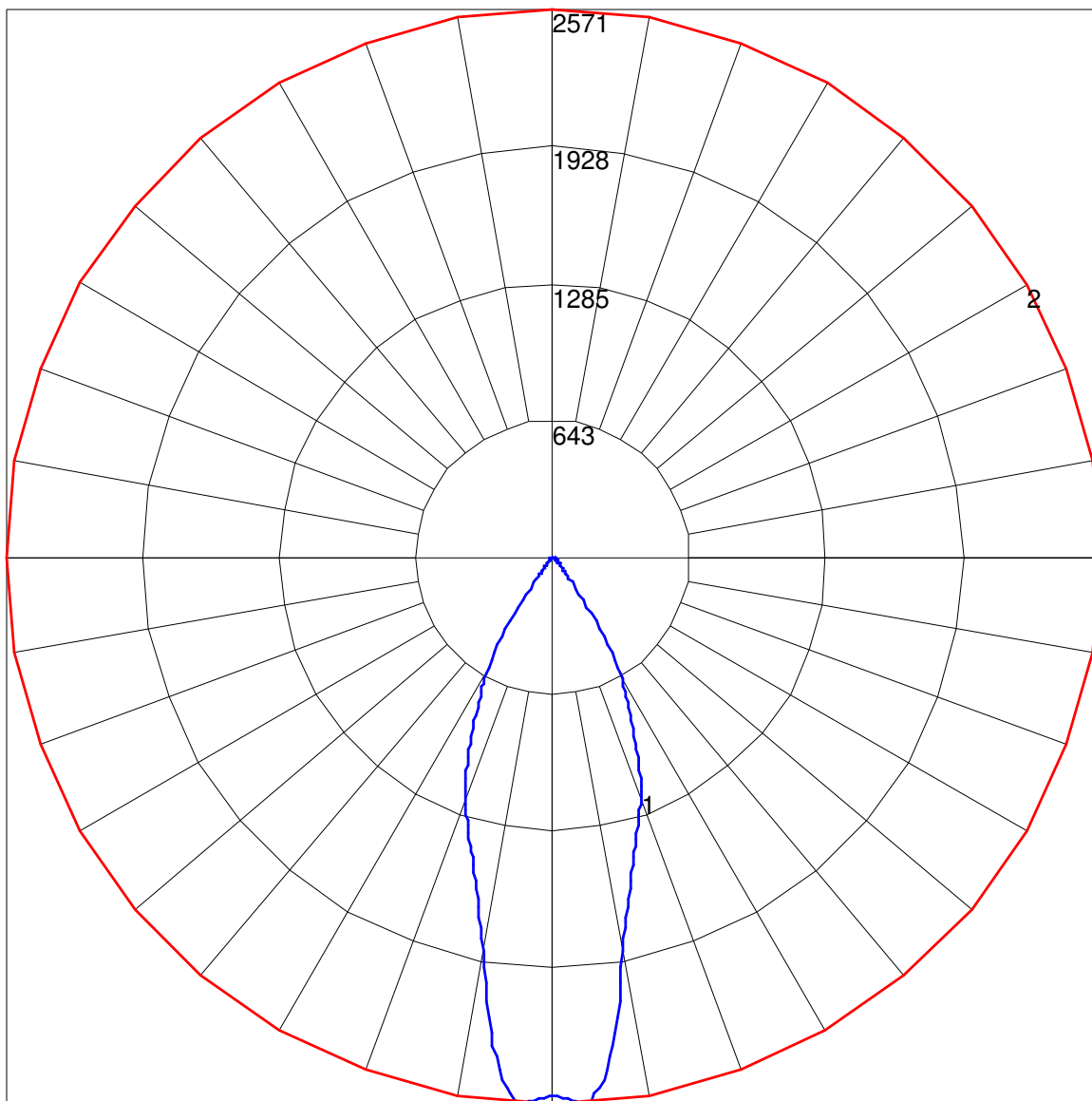
X=2H	Y=2H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	3H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	4H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	6H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	8H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	12H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

### UGR Viewed Endwise

4H	2H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	3H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	4H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	6H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	8H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	12H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
8H	4H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	6H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	8H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	12H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
12H	4H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	6H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	8H	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Maximum UGR = 0.8

POLAR GRAPH



Maximum Candela = 2570.829 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)