



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 02-14-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT  
 [LUMINAIRE] Black formed aluminum housing, 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	825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	8.7
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	1489	1489	1489
55	548	548	548
65	216	216	216
75	97	97	97
85	79	79	79

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1669.554
0.5	1672.050
1.0	1677.042
1.5	1679.955
2.0	1687.027
2.5	1689.939
3.0	1694.932
3.5	1696.180
4.0	1692.436
4.5	1672.466
5.0	1652.496
5.5	1631.278
6.0	1597.163
6.5	1563.048
7.0	1526.853
7.5	1486.082
8.0	1438.654
8.5	1389.977
9.0	1339.637
9.5	1290.545
10.0	1245.197
10.5	1205.257
11.0	1170.726
11.5	1141.188
12.0	1112.065
12.5	1083.359
13.0	1055.900
13.5	1030.106
14.0	1006.808
14.5	986.006
15.0	967.284
15.5	949.395
16.0	931.921
16.5	913.616
17.0	894.894
17.5	876.172
18.0	859.115
18.5	844.138
19.0	828.744
19.5	812.935
20.0	795.461
20.5	776.740
21.0	757.602
21.5	738.048
22.0	717.247
22.5	697.277
23.0	676.059
23.5	654.425
24.0	631.959
24.5	609.493
25.0	587.443
25.5	565.393
26.0	545.008
26.5	525.454

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	507.148
27.5	489.675
28.0	473.865
28.5	459.720
29.0	446.407
29.5	433.510
30.0	417.284
30.5	396.982
31.0	373.684
31.5	348.056
32.0	322.054
32.5	295.885
33.0	269.716
33.5	242.258
34.0	214.384
34.5	188.964
35.0	164.542
35.5	141.494
36.0	119.319
36.5	99.474
37.0	83.207
37.5	71.766
38.0	65.609
38.5	61.449
39.0	57.288
39.5	52.878
40.0	48.177
40.5	43.185
41.0	38.400
41.5	33.949
42.0	30.163
42.5	27.167
43.0	24.837
43.5	23.048
44.0	21.551
44.5	20.344
45.0	19.221
45.5	18.264
46.0	17.349
46.5	16.517
47.0	15.685
47.5	14.894
48.0	14.104
48.5	13.313
49.0	12.523
49.5	11.815
50.0	11.150
50.5	10.484
51.0	9.860
51.5	9.236
52.0	8.612
52.5	8.071
53.0	7.530
53.5	7.031
54.0	6.573
54.5	6.157

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES

CANDELA TABULATION - (Cont.)

55.0	5.741
55.5	5.408
56.0	5.034
56.5	4.743
57.0	4.452
57.5	4.160
58.0	3.911
58.5	3.661
59.0	3.453
59.5	3.245
60.0	3.037
60.5	2.829
61.0	2.663
61.5	2.496
62.0	2.371
62.5	2.247
63.0	2.080
63.5	1.997
64.0	1.872
64.5	1.747
65.0	1.664
65.5	1.539
66.0	1.456
66.5	1.373
67.0	1.290
67.5	1.207
68.0	1.165
68.5	1.082
69.0	0.998
69.5	0.957
70.0	0.915
70.5	0.832
71.0	0.790
71.5	0.749
72.0	0.707
72.5	0.666
73.0	0.624
73.5	0.582
74.0	0.541
74.5	0.499
75.0	0.458
75.5	0.458
76.0	0.416
76.5	0.374
77.0	0.374
77.5	0.333
78.0	0.333
78.5	0.291
79.0	0.291
79.5	0.250
80.0	0.250
80.5	0.208
81.0	0.208
81.5	0.208
82.0	0.166
82.5	0.166

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES

CANDELA TABULATION - (Cont.)

83.0	0.166
83.5	0.125
84.0	0.125
84.5	0.125
85.0	0.125
85.5	0.083
86.0	0.083
86.5	0.083
87.0	0.083
87.5	0.083
88.0	0.042
88.5	0.042
89.0	0.042
89.5	0.042
90.0	0.042
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 : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES****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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES****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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	416.36	N.A.	50.50
0-30	686.05	N.A.	83.20
0-40	800.18	N.A.	97.00
0-60	822.60	N.A.	99.70
0-80	824.86	N.A.	100.00
0-90	824.99	N.A.	100.00
10-90	681.14	N.A.	82.60
20-40	383.82	N.A.	46.50
20-50	400.74	N.A.	48.60
40-70	24.15	N.A.	2.90
60-80	2.26	N.A.	0.30
70-80	0.53	N.A.	0.10
80-90	0.13	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	824.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	143.85
10-20	272.50
20-30	269.70
30-40	114.13
40-50	16.92
50-60	5.51
60-70	1.72
70-80	0.53
80-90	0.13
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

# IES INDOOR REPORT

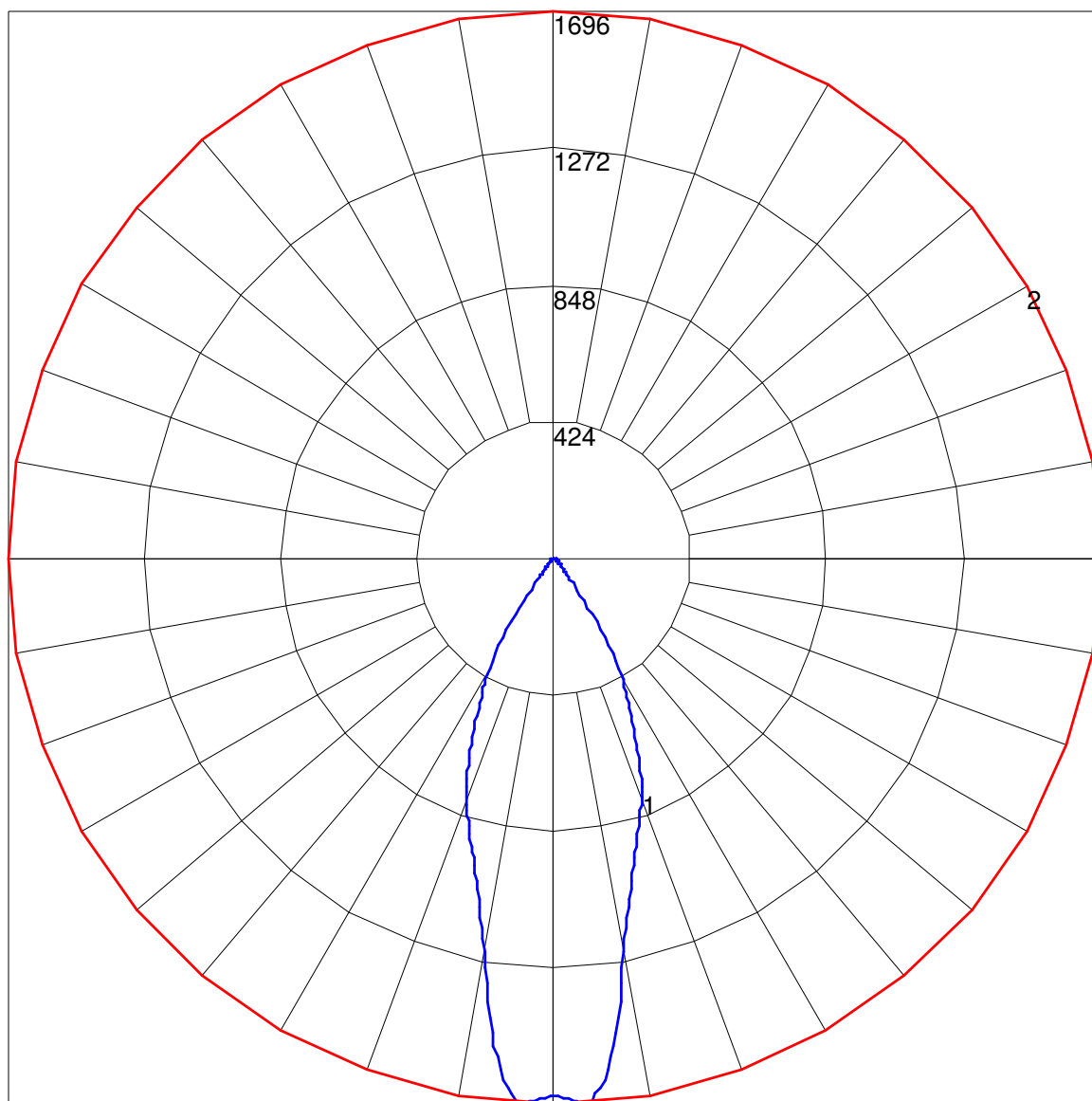
PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM1-UNV-OM-OF-CS-MWT\_.IES

## 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	92	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	84	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

POLAR GRAPH



Maximum Candela = 1696.18 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.)