



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-840-DIM1-UNV-OM-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 05-21-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L10-840-DIM1-UNV-OM-OF-CS  
 [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	992
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	1790	1790	1790
55	659	659	659
65	259	259	259
75	116	116	116
85	94	94	94

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CANDELA TABULATION

	<u>0</u>
0.0	2007.147
0.5	2010.148
1.0	2016.150
1.5	2019.651
2.0	2028.154
2.5	2031.655
3.0	2037.657
3.5	2039.158
4.0	2034.656
4.5	2010.648
5.0	1986.641
5.5	1961.132
6.0	1920.119
6.5	1879.106
7.0	1835.592
7.5	1786.576
8.0	1729.558
8.5	1671.039
9.0	1610.519
9.5	1551.500
10.0	1496.983
10.5	1448.967
11.0	1407.454
11.5	1371.942
12.0	1336.931
12.5	1302.420
13.0	1269.409
13.5	1238.399
14.0	1210.390
14.5	1185.382
15.0	1162.875
15.5	1141.368
16.0	1120.361
16.5	1098.354
17.0	1075.847
17.5	1053.340
18.0	1032.833
18.5	1014.827
19.0	996.321
19.5	977.315
20.0	956.308
20.5	933.801
21.0	910.794
21.5	887.286
22.0	862.278
22.5	838.270
23.0	812.762
23.5	786.754
24.0	759.745
24.5	732.736
25.0	706.228
25.5	679.719
26.0	655.211
26.5	631.704

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**CANDELA TABULATION - (Cont.)**

27.0	609.697
27.5	588.690
28.0	569.684
28.5	552.678
29.0	536.673
29.5	521.168
30.0	501.662
30.5	477.254
31.0	449.245
31.5	418.435
32.0	387.175
32.5	355.715
33.0	324.255
33.5	291.244
34.0	257.733
34.5	227.173
35.0	197.814
35.5	170.105
36.0	143.446
36.5	119.589
37.0	100.032
37.5	86.278
38.0	78.875
38.5	73.874
39.0	68.872
39.5	63.570
40.0	57.919
40.5	51.917
41.0	46.165
41.5	40.813
42.0	36.262
42.5	32.661
43.0	29.860
43.5	27.709
44.0	25.908
44.5	24.458
45.0	23.107
45.5	21.957
46.0	20.857
46.5	19.856
47.0	18.856
47.5	17.906
48.0	16.955
48.5	16.005
49.0	15.055
49.5	14.205
50.0	13.404
50.5	12.604
51.0	11.854
51.5	11.104
52.0	10.353
52.5	9.703
53.0	9.053
53.5	8.453
54.0	7.903
54.5	7.402

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CANDELA TABULATION - (Cont.)

55.0	6.902
55.5	6.502
56.0	6.052
56.5	5.702
57.0	5.352
57.5	5.002
58.0	4.702
58.5	4.401
59.0	4.151
59.5	3.901
60.0	3.651
60.5	3.401
61.0	3.201
61.5	3.001
62.0	2.851
62.5	2.701
63.0	2.501
63.5	2.401
64.0	2.251
64.5	2.101
65.0	2.001
65.5	1.851
66.0	1.751
66.5	1.651
67.0	1.550
67.5	1.450
68.0	1.400
68.5	1.300
69.0	1.200
69.5	1.150
70.0	1.100
70.5	1.000
71.0	0.950
71.5	0.900
72.0	0.850
72.5	0.800
73.0	0.750
73.5	0.700
74.0	0.650
74.5	0.600
75.0	0.550
75.5	0.550
76.0	0.500
76.5	0.450
77.0	0.450
77.5	0.400
78.0	0.400
78.5	0.350
79.0	0.350
79.5	0.300
80.0	0.300
80.5	0.250
81.0	0.250
81.5	0.250
82.0	0.200
82.5	0.200

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CANDELA TABULATION - (Cont.)

83.0	0.200
83.5	0.150
84.0	0.150
84.5	0.150
85.0	0.150
85.5	0.100
86.0	0.100
86.5	0.100
87.0	0.100
87.5	0.100
88.0	0.050
88.5	0.050
89.0	0.050
89.5	0.050
90.0	0.050
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
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100.5	0.000
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102.5	0.000
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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
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120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
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125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
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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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PHOTOMETRIC FILENAME : 6DR-TL-L10-840-DIM1-UNV-OM-OF-CS\_.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
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151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
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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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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	500.54	N.A.	50.50
0-30	824.78	N.A.	83.20
0-40	961.98	N.A.	97.00
0-60	988.94	N.A.	99.70
0-80	991.65	N.A.	100.00
0-90	991.81	N.A.	100.00
10-90	818.87	N.A.	82.60
20-40	461.43	N.A.	46.50
20-50	481.77	N.A.	48.60
40-70	29.03	N.A.	2.90
60-80	2.71	N.A.	0.30
70-80	0.64	N.A.	0.10
80-90	0.15	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	991.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	172.94
10-20	327.60
20-30	324.23
30-40	137.20
40-50	20.34
50-60	6.62
60-70	2.07
70-80	0.64
80-90	0.15
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

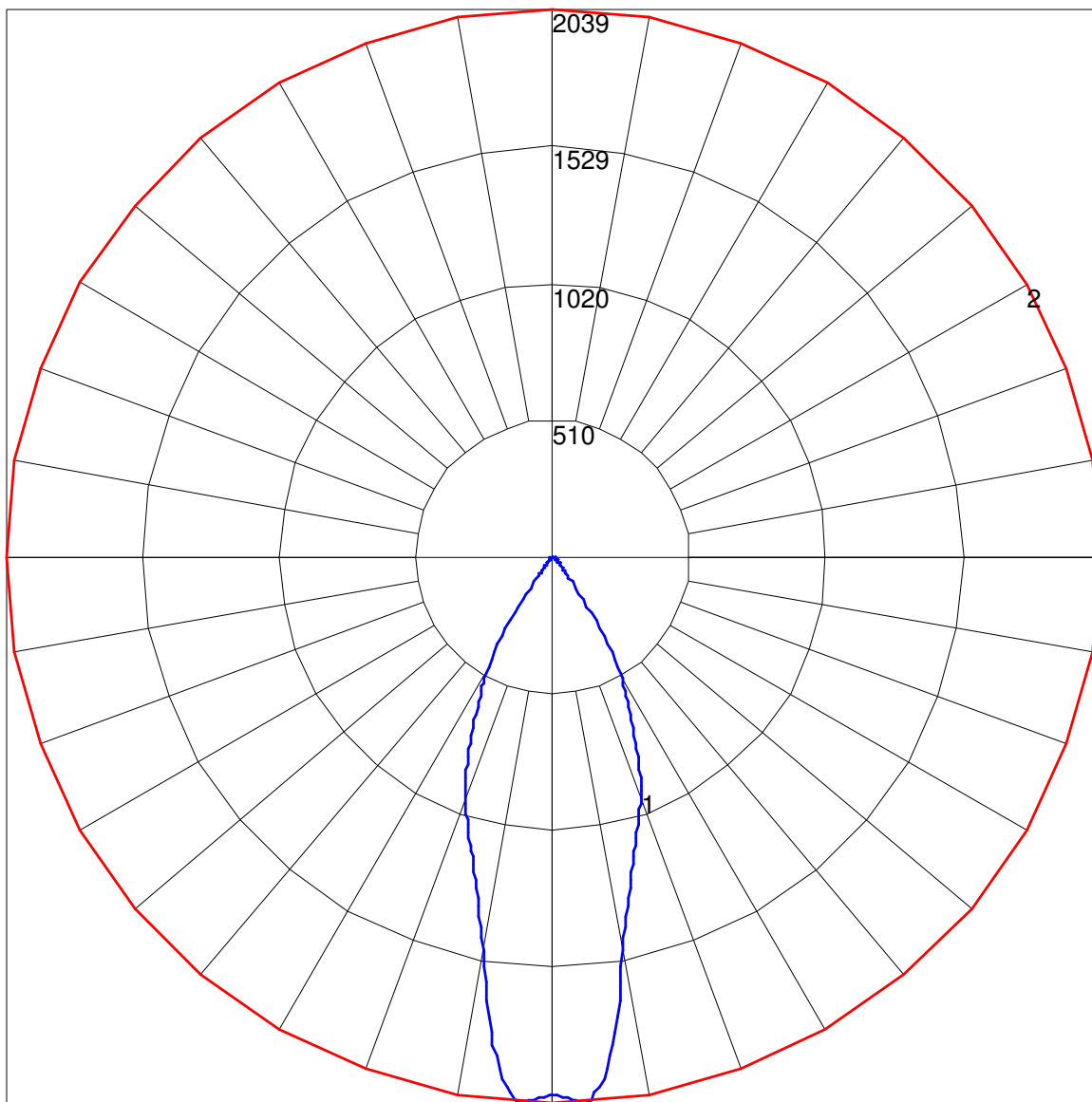
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92	91	89
3	104	99	94	91	102	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	84	98	92	87	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	79	74	70	86	79	74	70	78	73	70	77	72	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	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

POLAR GRAPH



Maximum Candela = 2039.158 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.)