

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.19

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 6-16-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 6DR-L30-935-DIM-UNV-OW-OF-BL (BLACK)

[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens

[MORE] enclosure

[LAMP] One white LED

[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	1180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	36.4646
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	0.96
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	2948	2948	2948
55	1434	1434	1434
65	506	506	506
75	138	138	138
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1302.153
0.5	1299.493
1.0	1293.583
1.5	1280.579
2.0	1263.437
2.5	1237.725
3.0	1207.285
3.5	1177.730
4.0	1149.359
4.5	1124.533
5.0	1096.457
5.5	1070.449
6.0	1051.830
6.5	1039.713
7.0	1032.915
7.5	1029.664
8.0	1029.369
8.5	1030.847
9.0	1033.211
9.5	1036.462
10.0	1040.008
10.5	1042.373
11.0	1043.555
11.5	1043.555
12.0	1042.077
12.5	1039.417
13.0	1035.280
13.5	1030.551
14.0	1025.231
14.5	1019.616
15.0	1014.001
15.5	1009.272
16.0	1005.430
16.5	1002.179
17.0	999.519
17.5	998.042
18.0	998.042
18.5	998.633
19.0	1000.110
19.5	1001.588
20.0	1002.770
20.5	1004.248
21.0	1005.430
21.5	1006.908
22.0	1008.386
22.5	1010.159
23.0	1013.114
23.5	1016.365
24.0	1020.207
24.5	1024.640
25.0	1029.960
25.5	1035.280
26.0	1040.008
26.5	1042.964

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES****CANDELA TABULATION - (Cont.)**

27.0	1044.737
27.5	1044.442
28.0	1041.486
28.5	1036.757
29.0	1026.709
29.5	1008.977
30.0	983.265
30.5	949.868
31.0	909.970
31.5	861.502
32.0	803.280
32.5	737.079
33.0	665.854
33.5	592.560
34.0	519.561
34.5	448.040
35.0	380.952
35.5	319.480
36.0	265.366
36.5	217.961
37.0	177.147
37.5	145.731
38.0	122.502
38.5	104.533
39.0	89.283
39.5	77.018
40.0	68.181
40.5	61.857
41.0	57.246
41.5	53.670
42.0	50.656
42.5	47.996
43.0	45.632
43.5	43.474
44.0	41.523
44.5	39.721
45.0	38.066
45.5	36.499
46.0	35.022
46.5	33.633
47.0	32.303
47.5	31.032
48.0	29.820
48.5	28.608
49.0	27.485
49.5	26.362
50.0	25.210
50.5	24.116
51.0	23.023
51.5	21.929
52.0	20.865
52.5	19.801
53.0	18.796
53.5	17.792
54.0	16.816
54.5	15.900

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES****CANDELA TABULATION - (Cont.)**

55.0	15.013
55.5	14.127
56.0	13.299
56.5	12.501
57.0	11.763
57.5	11.053
58.0	10.373
58.5	9.723
59.0	9.103
59.5	8.512
60.0	7.950
60.5	7.448
61.0	6.945
61.5	6.472
62.0	6.029
62.5	5.615
63.0	5.231
63.5	4.876
64.0	4.522
64.5	4.197
65.0	3.901
65.5	3.606
66.0	3.340
66.5	3.103
67.0	2.867
67.5	2.660
68.0	2.453
68.5	2.276
69.0	2.069
69.5	1.921
70.0	1.773
70.5	1.625
71.0	1.478
71.5	1.359
72.0	1.241
72.5	1.123
73.0	1.005
73.5	0.916
74.0	0.828
74.5	0.739
75.0	0.650
75.5	0.591
76.0	0.502
76.5	0.443
77.0	0.384
77.5	0.325
78.0	0.296
78.5	0.236
79.0	0.207
79.5	0.148
80.0	0.118
80.5	0.089
81.0	0.059
81.5	0.030
82.0	0.030
82.5	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES****CANDELA TABULATION - (Cont.)**

83.0	0.000
83.5	0.000
84.0	0.000
84.5	0.000
85.0	0.000
85.5	0.000
86.0	0.000
86.5	0.000
87.0	0.000
87.5	0.000
88.0	0.000
88.5	0.000
89.0	0.000
89.5	0.000
90.0	0.000
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-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.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-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.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-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.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-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	390.57	N.A.	33.10
0-30	864.36	N.A.	73.20
0-40	1130.66	N.A.	95.80
0-60	1175.29	N.A.	99.60
0-80	1180.23	N.A.	100.00
0-90	1180.24	N.A.	100.00
10-90	1077.47	N.A.	91.30
20-40	740.08	N.A.	62.70
20-50	770.92	N.A.	65.30
40-70	48.78	N.A.	4.10
60-80	4.94	N.A.	0.40
70-80	0.79	N.A.	0.10
80-90	0.01	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	1180.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.77
10-20	287.81
20-30	473.79
30-40	266.30
40-50	30.84
50-60	13.80
60-70	4.15
70-80	0.79
80-90	0.01
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-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	79	73	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	71	62	56	52	70	61	55	52	60	55	52	60	55	51	59	54	51	50

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-935-DIM-UNV-OW-OF-BL (BLACK)_.IES

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

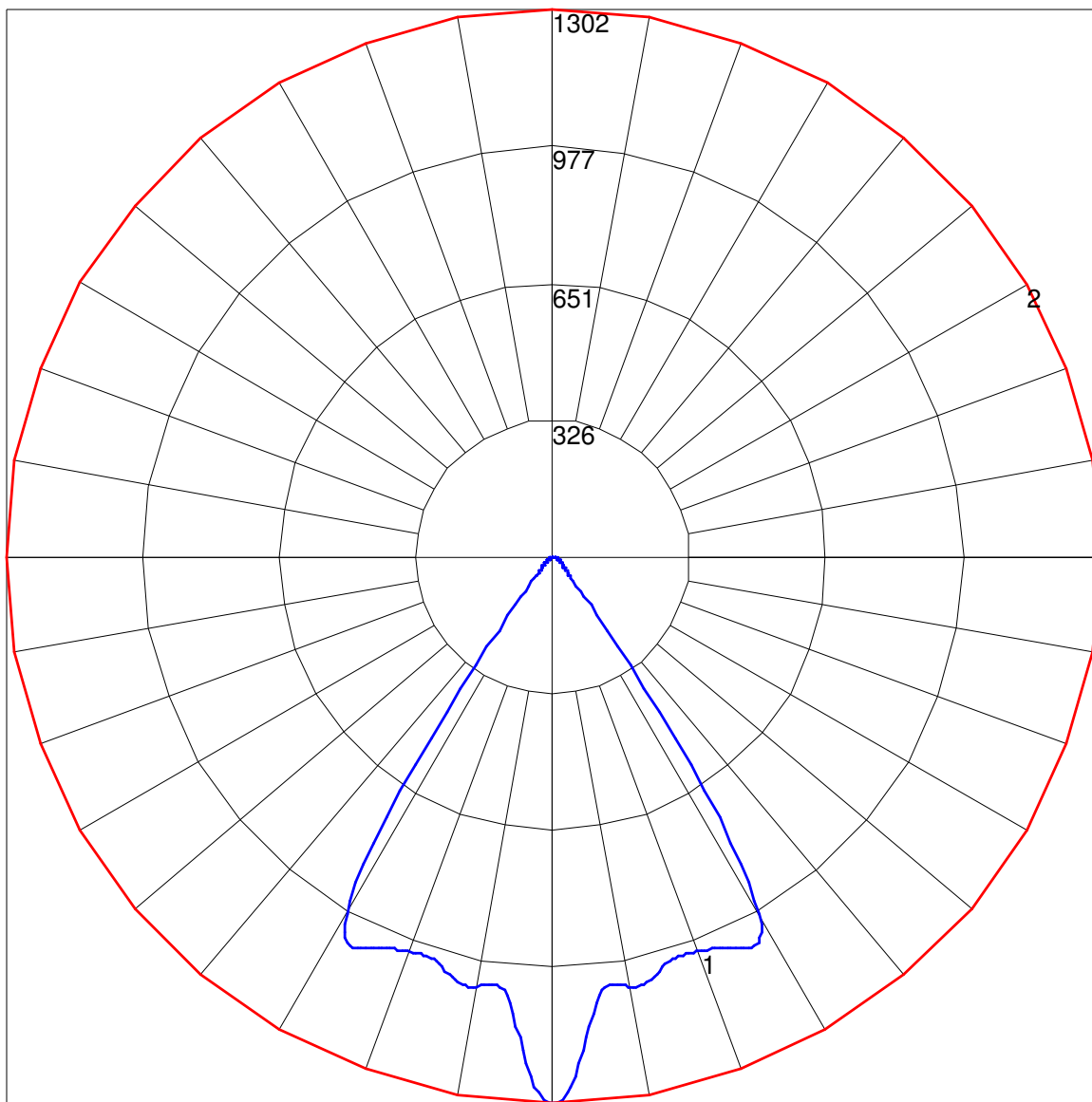
X=2H	Y=2H	2.5	3.5	2.9	3.8	4.1	2.5	3.5	2.9	3.8	4.1
	3H	2.6	3.5	3.0	3.8	4.2	2.6	3.5	3.0	3.8	4.2
	4H	2.6	3.3	3.0	3.7	4.1	2.6	3.3	3.0	3.7	4.1
	6H	2.4	3.1	2.9	3.5	3.9	2.4	3.1	2.9	3.5	3.9
	8H	2.4	3.0	2.8	3.4	3.8	2.4	3.0	2.8	3.4	3.8
	12H	2.3	3.0	2.8	3.3	3.8	2.3	3.0	2.8	3.3	3.8

UGR Viewed Endwise

4H	2H	2.5	3.2	2.9	3.6	4.0	2.5	3.2	2.9	3.6	4.0
	3H	2.6	3.2	3.0	3.6	4.0	2.6	3.2	3.0	3.6	4.0
	4H	2.5	3.0	2.9	3.5	3.9	2.5	3.0	2.9	3.5	3.9
	6H	2.4	2.9	2.9	3.3	3.8	2.4	2.9	2.9	3.3	3.8
	8H	2.3	2.8	2.8	3.2	3.7	2.3	2.8	2.8	3.2	3.7
	12H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6
8H	4H	2.3	2.8	2.8	3.2	3.7	2.3	2.8	2.8	3.2	3.7
	6H	2.2	2.6	2.7	3.1	3.6	2.2	2.6	2.7	3.1	3.6
	8H	2.2	2.4	2.7	3.0	3.5	2.2	2.4	2.7	3.0	3.5
	12H	2.1	2.3	2.6	2.8	3.4	2.1	2.3	2.6	2.8	3.4
12H	4H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6
	6H	2.2	2.4	2.7	2.9	3.5	2.2	2.4	2.7	2.9	3.5
	8H	2.1	2.3	2.6	2.8	3.4	2.1	2.3	2.6	2.8	3.4

Maximum UGR = 4.2

POLAR GRAPH



Maximum Candela = 1302.153 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)