



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.12

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 10/28/2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6DR-TL-L40-935-DIM-UNV-RW-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear glas

[MORE] s patterned lens 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	2368
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	36.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.94
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	31976	31976	31976
55	26666	26666	26666
65	18813	18813	18813
75	11524	11524	11524
85	9089	9089	9089

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1751.828
0.5	1750.189
1.0	1748.551
1.5	1746.912
2.0	1743.634
2.5	1738.718
3.0	1733.802
3.5	1727.247
4.0	1720.692
4.5	1715.775
5.0	1709.220
5.5	1702.665
6.0	1696.110
6.5	1689.555
7.0	1683.000
7.5	1676.445
8.0	1668.252
8.5	1661.697
9.0	1655.142
9.5	1646.948
10.0	1640.393
10.5	1632.363
11.0	1624.497
11.5	1616.631
12.0	1608.765
12.5	1601.063
13.0	1593.197
13.5	1585.003
14.0	1576.973
14.5	1569.107
15.0	1561.733
15.5	1554.194
16.0	1546.820
16.5	1539.609
17.0	1532.891
17.5	1526.172
18.0	1519.617
18.5	1513.389
19.0	1507.162
19.5	1500.771
20.0	1494.216
20.5	1487.169
21.0	1479.139
21.5	1469.962
22.0	1459.638
22.5	1448.167
23.0	1435.712
23.5	1421.619
24.0	1406.215
24.5	1389.336
25.0	1370.654
25.5	1350.497
26.0	1328.046
26.5	1303.465

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	1277.245
27.5	1248.731
28.0	1218.414
28.5	1185.475
29.0	1150.733
29.5	1113.042
30.0	1073.056
30.5	1030.776
31.0	986.858
31.5	941.956
32.0	896.235
32.5	850.841
33.0	805.939
33.5	762.512
34.0	720.888
34.5	681.722
35.0	645.997
35.5	613.222
36.0	584.380
36.5	558.815
37.0	536.364
37.5	517.191
38.0	500.312
38.5	485.399
39.0	472.453
39.5	460.982
40.0	450.493
40.5	440.989
41.0	432.139
41.5	424.110
42.0	416.735
42.5	409.689
43.0	402.970
43.5	396.578
44.0	390.515
44.5	384.779
45.0	378.880
45.5	373.308
46.0	367.573
46.5	362.001
47.0	356.265
47.5	350.529
48.0	344.630
48.5	338.730
49.0	333.159
49.5	327.423
50.0	321.360
50.5	315.132
51.0	308.741
51.5	302.350
52.0	295.959
52.5	289.404
53.0	283.013
53.5	276.786
54.0	269.903
54.5	263.020

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	256.301
55.5	249.418
56.0	242.699
56.5	235.981
57.0	229.262
57.5	222.543
58.0	216.152
58.5	209.597
59.0	203.205
59.5	196.978
60.0	190.751
60.5	184.524
61.0	178.460
61.5	172.561
62.0	166.661
62.5	160.926
63.0	155.190
63.5	149.454
64.0	144.046
64.5	138.475
65.0	133.231
65.5	127.823
66.0	122.743
66.5	117.663
67.0	112.746
67.5	107.830
68.0	103.078
68.5	98.325
69.0	93.901
69.5	89.312
70.0	85.051
70.5	80.791
71.0	76.694
71.5	72.761
72.0	68.828
72.5	65.222
73.0	61.781
73.5	58.667
74.0	55.554
74.5	52.768
75.0	49.982
75.5	47.524
76.0	45.066
76.5	42.935
77.0	40.969
77.5	39.002
78.0	37.036
78.5	35.069
79.0	33.267
79.5	31.464
80.0	29.661
80.5	27.859
81.0	26.056
81.5	24.417
82.0	22.615
82.5	20.976

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	19.337
83.5	17.862
84.0	16.224
84.5	14.749
85.0	13.274
85.5	11.799
86.0	10.324
86.5	8.849
87.0	7.538
87.5	6.063
88.0	4.916
88.5	3.933
89.0	3.114
89.5	2.294
90.0	1.639
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-L40-935-DIM-UNV-RW-OF-WH_.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-L40-935-DIM-UNV-RW-OF-WH_.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-L40-935-DIM-UNV-RW-OF-WH_.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-L40-935-DIM-UNV-RW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	601.96	N.A.	25.40
0-30	1216.94	N.A.	51.40
0-40	1642.42	N.A.	69.40
0-60	2164.56	N.A.	91.40
0-80	2353.05	N.A.	99.40
0-90	2368.17	N.A.	100.00
10-90	2207.24	N.A.	93.20
20-40	1040.46	N.A.	43.90
20-50	1334.01	N.A.	56.30
40-70	655.17	N.A.	27.70
60-80	188.49	N.A.	8.00
70-80	55.46	N.A.	2.30
80-90	15.12	N.A.	0.60
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2368.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.92
10-20	441.04
20-30	614.98
30-40	425.48
40-50	293.56
50-60	228.58
60-70	133.03
70-80	55.46
80-90	15.12
90-100	0.04
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-L40-935-DIM-UNV-RW-OF-WH_.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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH_.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	20.8	22.2	21.2	22.5	22.8	20.8	22.2	21.2	22.5	22.8
	3H	21.8	23.0	22.2	23.3	23.7	21.8	23.0	22.2	23.3	23.7
	4H	22.1	23.2	22.5	23.5	23.9	22.1	23.2	22.5	23.5	23.9
	6H	22.2	23.3	22.7	23.6	24.0	22.2	23.3	22.7	23.6	24.0
	8H	22.3	23.3	22.7	23.6	24.1	22.3	23.3	22.7	23.6	24.1
	12H	22.3	23.2	22.8	23.6	24.1	22.3	23.2	22.8	23.6	24.1

UGR Viewed Endwise

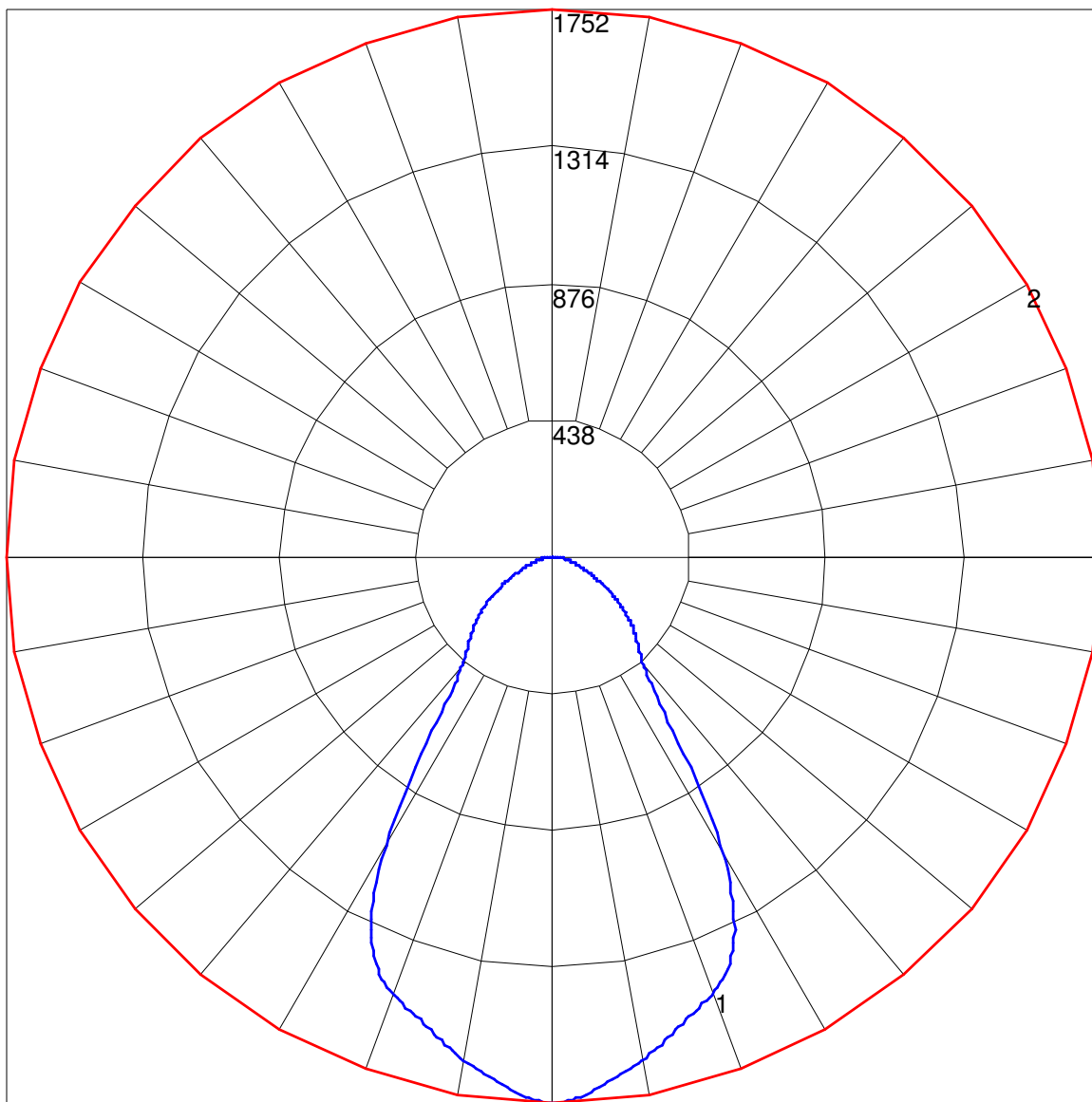
4H	2H	21.2	22.3	21.6	22.6	23.0	21.2	22.3	21.6	22.6	23.0
	3H	22.3	23.2	22.7	23.6	24.0	22.3	23.2	22.7	23.6	24.0
	4H	22.7	23.5	23.1	23.9	24.3	22.7	23.5	23.1	23.9	24.3
	6H	22.9	23.6	23.4	24.1	24.5	22.9	23.6	23.4	24.1	24.5
	8H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6
	12H	23.1	23.6	23.5	24.1	24.6	23.1	23.6	23.5	24.1	24.6

8H	4H	22.7	23.4	23.2	23.8	24.3	22.7	23.4	23.2	23.8	24.3
	6H	23.1	23.6	23.6	24.1	24.6	23.1	23.6	23.6	24.1	24.6
	8H	23.2	23.7	23.7	24.2	24.7	23.2	23.7	23.7	24.2	24.7
	12H	23.3	23.7	23.8	24.2	24.8	23.3	23.7	23.8	24.2	24.8

12H	4H	22.7	23.3	23.2	23.8	24.3	22.7	23.3	23.2	23.8	24.3
	6H	23.1	23.6	23.6	24.0	24.6	23.1	23.6	23.6	24.0	24.6
	8H	23.2	23.7	23.8	24.2	24.7	23.2	23.7	23.8	24.2	24.7

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 1751.828 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.)