



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-935-DIM-UNV-RW-OF-WH-AD\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.12

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 10-20-2023

[MANUFAC] WILLIAMS INDOOR

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

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

[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	2014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
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	27190	27190	27190
55	22675	22675	22675
65	15997	15997	15997
75	9800	9800	9800
85	7728	7728	7728

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CANDELA TABULATION

	<u>0</u>
0.0	1489.646
0.5	1488.253
1.0	1486.859
1.5	1485.466
2.0	1482.679
2.5	1478.498
3.0	1474.318
3.5	1468.744
4.0	1463.170
4.5	1458.989
5.0	1453.415
5.5	1447.841
6.0	1442.267
6.5	1436.693
7.0	1431.119
7.5	1425.545
8.0	1418.578
8.5	1413.004
9.0	1407.430
9.5	1400.462
10.0	1394.888
10.5	1388.060
11.0	1381.372
11.5	1374.683
12.0	1367.994
12.5	1361.445
13.0	1354.756
13.5	1347.788
14.0	1340.960
14.5	1334.271
15.0	1328.001
15.5	1321.591
16.0	1315.320
16.5	1309.189
17.0	1303.475
17.5	1297.762
18.0	1292.188
18.5	1286.893
19.0	1281.597
19.5	1276.163
20.0	1270.589
20.5	1264.597
21.0	1257.769
21.5	1249.965
22.0	1241.186
22.5	1231.431
23.0	1220.841
23.5	1208.857
24.0	1195.758
24.5	1181.405
25.0	1165.519
25.5	1148.379
26.0	1129.288
26.5	1108.386

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**CANDELA TABULATION - (Cont.)**

27.0	1086.090
27.5	1061.843
28.0	1036.064
28.5	1008.054
29.0	978.512
29.5	946.462
30.0	912.461
30.5	876.508
31.0	839.163
31.5	800.981
32.0	762.102
32.5	723.503
33.0	685.321
33.5	648.393
34.0	612.998
34.5	579.694
35.0	549.316
35.5	521.446
36.0	496.920
36.5	475.182
37.0	456.091
37.5	439.787
38.0	425.434
38.5	412.753
39.0	401.745
39.5	391.990
40.0	383.072
40.5	374.989
41.0	367.465
41.5	360.636
42.0	354.366
42.5	348.374
43.0	342.660
43.5	337.226
44.0	332.070
44.5	327.193
45.0	322.176
45.5	317.438
46.0	312.561
46.5	307.823
47.0	302.946
47.5	298.069
48.0	293.052
48.5	288.035
49.0	283.298
49.5	278.420
50.0	273.264
50.5	267.969
51.0	262.534
51.5	257.100
52.0	251.665
52.5	246.091
53.0	240.657
53.5	235.361
54.0	229.509
54.5	223.656

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**CANDELA TABULATION - (Cont.)**

55.0	217.943
55.5	212.090
56.0	206.377
56.5	200.663
57.0	194.950
57.5	189.237
58.0	183.802
58.5	178.228
59.0	172.793
59.5	167.498
60.0	162.203
60.5	156.908
61.0	151.752
61.5	146.735
62.0	141.718
62.5	136.841
63.0	131.964
63.5	127.087
64.0	122.488
64.5	117.750
65.0	113.291
65.5	108.693
66.0	104.373
66.5	100.053
67.0	95.872
67.5	91.692
68.0	87.651
68.5	83.610
69.0	79.847
69.5	75.945
70.0	72.322
70.5	68.699
71.0	65.216
71.5	61.871
72.0	58.527
72.5	55.461
73.0	52.535
73.5	49.887
74.0	47.239
74.5	44.871
75.0	42.502
75.5	40.411
76.0	38.321
76.5	36.510
77.0	34.837
77.5	33.165
78.0	31.493
78.5	29.821
79.0	28.288
79.5	26.755
80.0	25.222
80.5	23.689
81.0	22.157
81.5	20.763
82.0	19.230
82.5	17.837

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CANDELA TABULATION - (Cont.)

83.0	16.443
83.5	15.189
84.0	13.796
84.5	12.541
85.0	11.287
85.5	10.033
86.0	8.779
86.5	7.525
87.0	6.410
87.5	5.156
88.0	4.180
88.5	3.344
89.0	2.648
89.5	1.951
90.0	1.393
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

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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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122.0	0.000
122.5	0.000
123.0	0.000
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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

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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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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-AD\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	511.87	N.A.	25.40
0-30	1034.81	N.A.	51.40
0-40	1396.61	N.A.	69.40
0-60	1840.6	N.A.	91.40
0-80	2000.89	N.A.	99.40
0-90	2013.74	N.A.	100.00
10-90	1876.9	N.A.	93.20
20-40	884.74	N.A.	43.90
20-50	1134.36	N.A.	56.30
40-70	557.12	N.A.	27.70
60-80	160.28	N.A.	8.00
70-80	47.16	N.A.	2.30
80-90	12.85	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	2013.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.84
10-20	375.03
20-30	522.94
30-40	361.80
40-50	249.62
50-60	194.37
60-70	113.12
70-80	47.16
80-90	12.85
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

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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	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	61	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

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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	20.3	21.6	20.6	21.9	22.2	20.3	21.6	20.6	21.9	22.2
	3H	21.2	22.4	21.6	22.7	23.1	21.2	22.4	21.6	22.7	23.1
	4H	21.5	22.6	21.9	22.9	23.3	21.5	22.6	21.9	22.9	23.3
	6H	21.6	22.7	22.1	23.0	23.4	21.6	22.7	22.1	23.0	23.4
	8H	21.7	22.7	22.1	23.1	23.5	21.7	22.7	22.1	23.1	23.5
	12H	21.7	22.7	22.2	23.0	23.5	21.7	22.7	22.2	23.0	23.5

### UGR Viewed Endwise

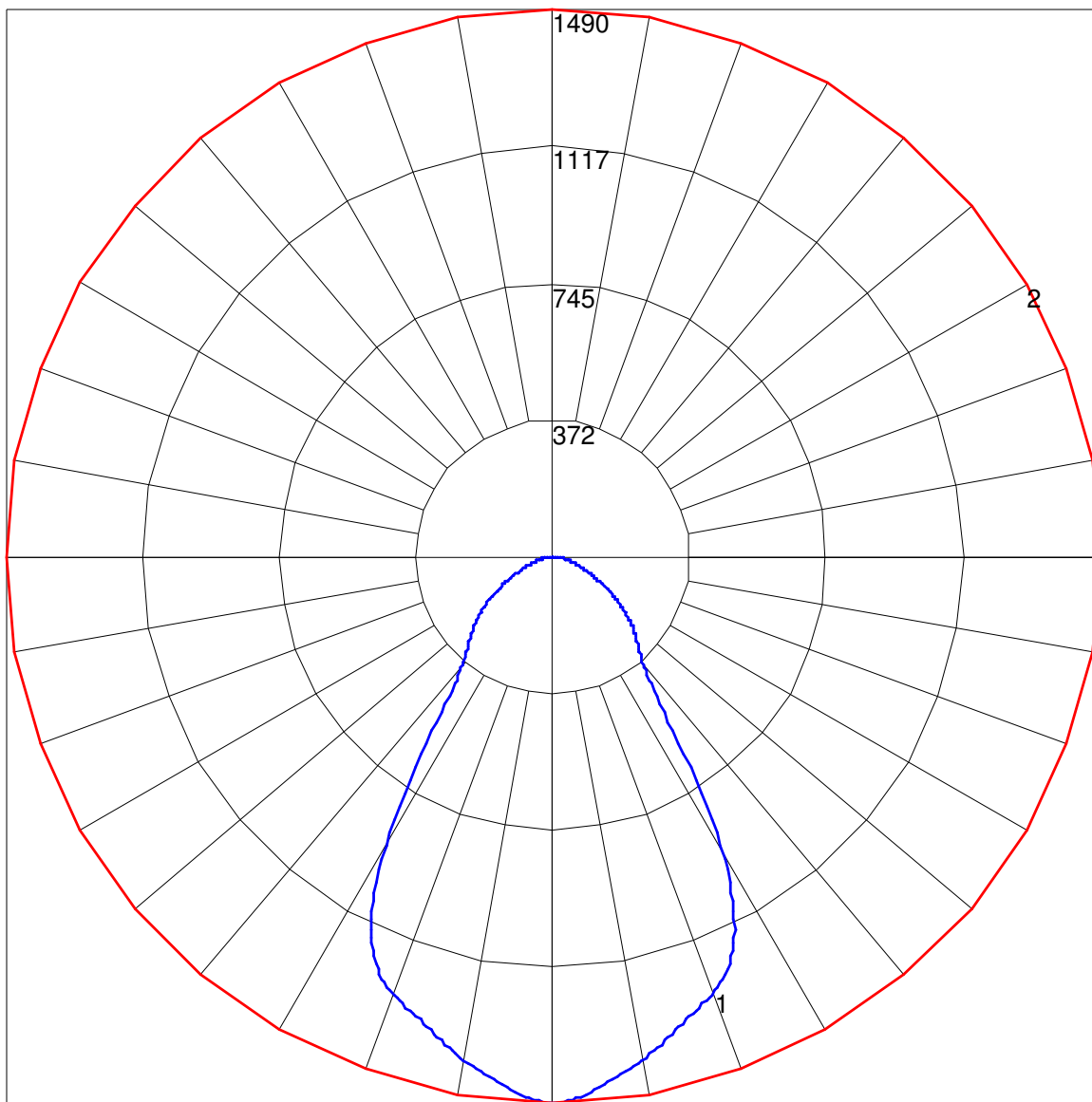
4H	2H	20.6	21.7	21.0	22.0	22.4	20.6	21.7	21.0	22.0	22.4
	3H	21.7	22.6	22.1	23.0	23.4	21.7	22.6	22.1	23.0	23.4
	4H	22.1	22.9	22.5	23.3	23.7	22.1	22.9	22.5	23.3	23.7
	6H	22.3	23.0	22.8	23.5	23.9	22.3	23.0	22.8	23.5	23.9
	8H	22.4	23.0	22.9	23.5	24.0	22.4	23.0	22.9	23.5	24.0
	12H	22.5	23.0	22.9	23.5	24.0	22.5	23.0	22.9	23.5	24.0

8H	4H	22.1	22.8	22.6	23.2	23.7	22.1	22.8	22.6	23.2	23.7
	6H	22.5	23.0	23.0	23.5	24.0	22.5	23.0	23.0	23.5	24.0
	8H	22.6	23.1	23.1	23.6	24.1	22.6	23.1	23.1	23.6	24.1
	12H	22.7	23.1	23.2	23.6	24.2	22.7	23.1	23.2	23.6	24.2

12H	4H	22.1	22.7	22.6	23.2	23.7	22.1	22.7	22.6	23.2	23.7
	6H	22.5	23.0	23.0	23.4	24.0	22.5	23.0	23.0	23.4	24.0
	8H	22.6	23.1	23.2	23.6	24.1	22.6	23.1	23.2	23.6	24.1

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1489.646 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.)