



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L50-835-DIM-UNV-ON-OFF-SG\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.05

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 15 MARCH 2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6DR-TL-L50-835-DIM-UNV-ON-OFF-SG

[LUMINAIRE] 6" ROUND RECESSED LED DOWNLIGHT

[MORE] WITH NARROW OPTIC AND OPEN SATIN GLOW TRIM

[LAMP] 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	4642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	43.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
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	2308	2308	2308
55	875	875	875
65	297	297	297
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	50417.576
0.5	49867.566
1.0	48080.034
1.5	45559.155
2.0	42694.520
2.5	39715.300
3.0	36529.825
3.5	33161.015
4.0	29585.950
4.5	25987.969
5.0	22527.490
5.5	19706.397
6.0	17444.481
6.5	15592.781
7.0	14022.961
7.5	12675.437
8.0	11497.499
8.5	10463.939
9.0	9556.422
9.5	8763.491
10.0	8080.562
10.5	7489.302
11.0	6969.084
11.5	6522.201
12.0	6132.611
12.5	5793.438
13.0	5500.099
13.5	5245.720
14.0	5023.424
14.5	4828.629
15.0	4656.751
15.5	4503.206
16.0	4363.412
16.5	4237.368
17.0	4122.783
17.5	4015.072
18.0	3921.112
18.5	3834.027
19.0	3746.943
19.5	3659.858
20.0	3570.481
20.5	3476.521
21.0	3377.978
21.5	3272.559
22.0	3153.390
22.5	3022.763
23.0	2878.385
23.5	2731.716
24.0	2591.922
24.5	2461.294
25.0	2339.834
25.5	2222.957
26.0	2117.538
26.5	2021.286

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**CANDELA TABULATION - (Cont.)**

27.0	1945.660
27.5	1886.076
28.0	1844.825
28.5	1812.741
29.0	1785.241
29.5	1760.032
30.0	1730.240
30.5	1668.363
31.0	1583.570
31.5	1478.152
32.0	1363.566
32.5	1242.106
33.0	1118.354
33.5	980.851
34.0	829.598
34.5	685.221
35.0	554.593
35.5	437.716
36.0	325.423
36.5	226.879
37.0	142.086
37.5	87.085
38.0	61.876
38.5	57.293
39.0	55.001
39.5	52.709
40.0	48.126
40.5	48.126
41.0	45.834
41.5	43.542
42.0	41.251
42.5	38.959
43.0	36.667
43.5	34.376
44.0	34.376
44.5	32.084
45.0	29.792
45.5	29.792
46.0	27.500
46.5	27.500
47.0	25.209
47.5	22.917
48.0	22.917
48.5	20.625
49.0	20.625
49.5	18.334
50.0	18.334
50.5	16.042
51.0	16.042
51.5	13.750
52.0	13.750
52.5	11.459
53.0	11.459
53.5	11.459
54.0	9.167
54.5	9.167

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CANDELA TABULATION - (Cont.)

55.0	9.167
55.5	9.167
56.0	9.167
56.5	6.875
57.0	6.875
57.5	6.875
58.0	6.875
58.5	6.875
59.0	4.583
59.5	4.583
60.0	4.583
60.5	4.583
61.0	4.583
61.5	4.583
62.0	4.583
62.5	4.583
63.0	4.583
63.5	2.292
64.0	2.292
64.5	2.292
65.0	2.292
65.5	2.292
66.0	2.292
66.5	2.292
67.0	2.292
67.5	2.292
68.0	2.292
68.5	2.292
69.0	2.292
69.5	2.292
70.0	2.292
70.5	2.292
71.0	2.292
71.5	2.292
72.0	2.292
72.5	2.292
73.0	2.292
73.5	2.292
74.0	0.000
74.5	0.000
75.0	0.000
75.5	0.000
76.0	0.000
76.5	0.000
77.0	0.000
77.5	0.000
78.0	0.000
78.5	0.000
79.0	0.000
79.5	0.000
80.0	0.000
80.5	0.000
81.0	0.000
81.5	0.000
82.0	0.000
82.5	0.000

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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
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96.5	0.000
97.0	0.000
97.5	0.000
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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  
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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
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125.0	0.000
125.5	0.000
126.0	0.000
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127.0	0.000
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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
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150.5	0.000
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152.0	0.000
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153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
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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	3083.91	N.A.	66.40
0-30	4196.7	N.A.	90.40
0-40	4605.59	N.A.	99.20
0-60	4638.39	N.A.	99.90
0-80	4642.28	N.A.	100.00
0-90	4642.28	N.A.	100.00
10-90	2919.79	N.A.	62.90
20-40	1521.67	N.A.	32.80
20-50	1545.85	N.A.	33.30
40-70	35.80	N.A.	0.80
60-80	3.89	N.A.	0.10
70-80	0.90	N.A.	0.00
80-90	0.00	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	4642.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1722.49
10-20	1361.42
20-30	1112.79
30-40	408.89
40-50	24.18
50-60	8.63
60-70	2.99
70-80	0.90
80-90	0.00
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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93
3	107	102	98	95	105	101	97	95	98	95	93	96	94	92	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	86	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	79	77	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70

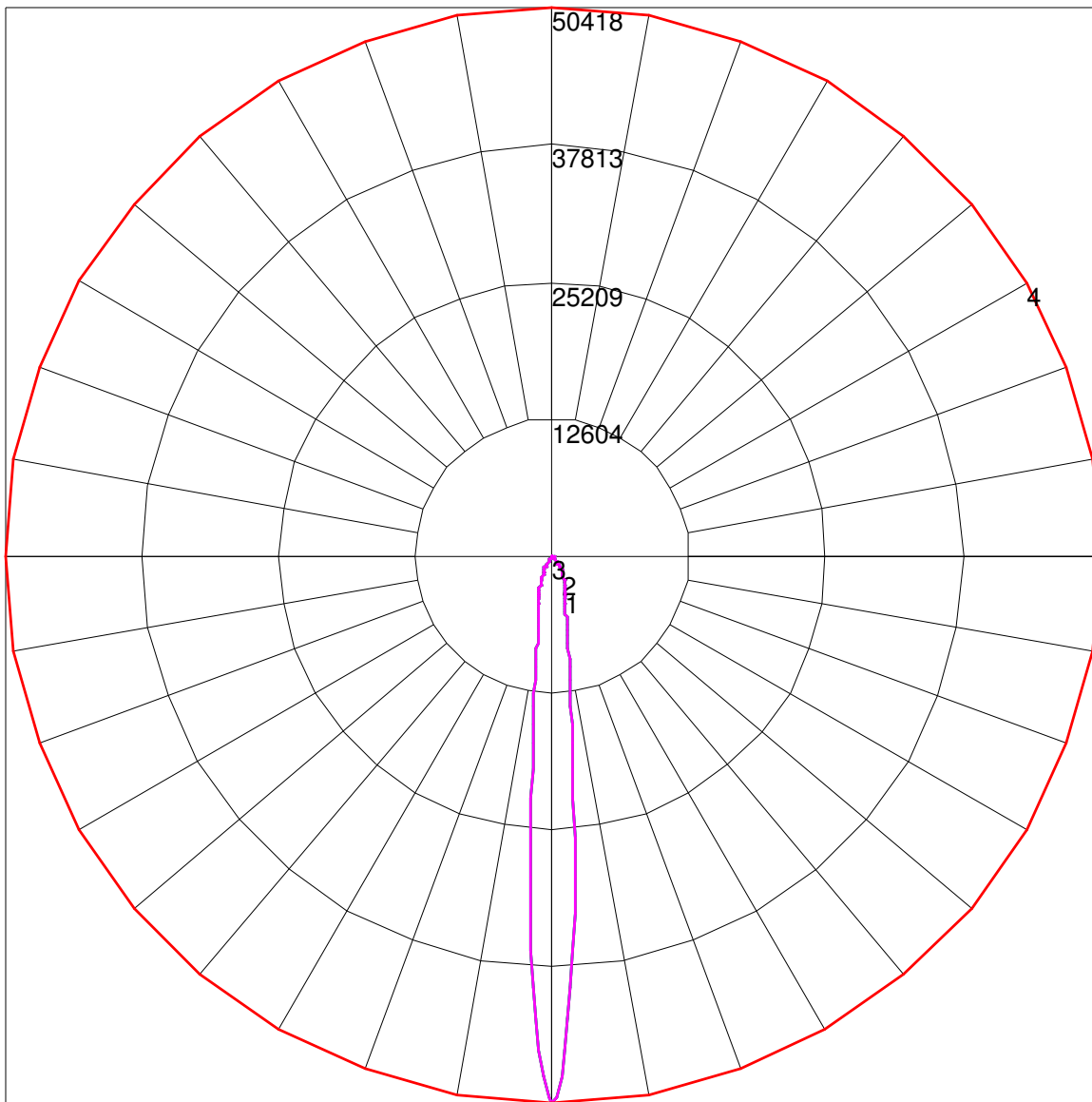
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
4H	2H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
8H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
12H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

Maximum UGR = 5.6

POLAR GRAPH



Maximum Candela = 50417.576 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (5 - 185)

# 3 - Vertical Plane Through Horizontal Angles (10 - 190)

# 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)