



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-940-DIM-UNV-LW-OF-WH-WETCC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 04-04-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L10-940-DIM-UNV-LW-OF-WH-WETCC
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass
 [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	650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	8.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	10805	10805	10805
55	8995	8995	8995
65	6834	6834	6834
75	4956	4956	4956
85	3229	3229	3229

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CANDELA TABULATION

	<u>0</u>
0.0	413.447
0.5	413.364
1.0	413.031
1.5	412.531
2.0	411.907
2.5	411.074
3.0	410.242
3.5	409.284
4.0	408.410
4.5	407.536
5.0	406.912
5.5	406.329
6.0	405.788
6.5	405.247
7.0	404.664
7.5	404.123
8.0	403.582
8.5	403.083
9.0	402.583
9.5	402.167
10.0	401.751
10.5	401.418
11.0	401.126
11.5	400.960
12.0	400.668
12.5	400.377
13.0	399.961
13.5	399.420
14.0	398.754
14.5	398.004
15.0	397.214
15.5	396.215
16.0	395.132
16.5	394.050
17.0	392.968
17.5	391.844
18.0	390.637
18.5	389.264
19.0	387.723
19.5	386.017
20.0	384.061
20.5	381.938
21.0	379.315
21.5	376.194
22.0	372.656
22.5	368.660
23.0	364.289
23.5	359.544
24.0	354.300
24.5	348.639
25.0	342.520
25.5	336.152
26.0	329.367
26.5	322.291

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CANDELA TABULATION - (Cont.)

27.0	314.757
27.5	307.015
28.0	298.857
28.5	290.241
29.0	281.292
29.5	271.885
30.0	262.228
30.5	252.280
31.0	242.332
31.5	232.301
32.0	222.561
32.5	213.237
33.0	204.288
33.5	195.922
34.0	188.222
34.5	181.229
35.0	174.985
35.5	169.241
36.0	164.205
36.5	159.585
37.0	155.464
37.5	151.759
38.0	148.388
38.5	145.308
39.0	142.394
39.5	139.772
40.0	137.233
40.5	134.860
41.0	132.654
41.5	130.490
42.0	128.409
42.5	126.494
43.0	124.538
43.5	122.623
44.0	120.750
44.5	118.919
45.0	117.045
45.5	115.256
46.0	113.424
46.5	111.593
47.0	109.720
47.5	107.888
48.0	106.015
48.5	104.142
49.0	102.269
49.5	100.313
50.0	98.440
50.5	96.525
51.0	94.610
51.5	92.654
52.0	90.698
52.5	88.741
53.0	86.785
53.5	84.829
54.0	82.956
54.5	81.041

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CANDELA TABULATION - (Cont.)

55.0	79.043
55.5	77.087
56.0	75.131
56.5	73.299
57.0	71.468
57.5	69.553
58.0	67.638
58.5	65.765
59.0	63.934
59.5	62.102
60.0	60.354
60.5	58.606
61.0	56.899
61.5	55.193
62.0	53.570
62.5	51.946
63.0	50.365
63.5	48.783
64.0	47.243
64.5	45.744
65.0	44.246
65.5	42.789
66.0	41.336
66.5	39.909
67.0	38.498
67.5	37.116
68.0	35.759
68.5	34.398
69.0	33.078
69.5	31.771
70.0	30.502
70.5	29.274
71.0	28.071
71.5	26.905
72.0	25.782
72.5	24.691
73.0	23.630
73.5	22.589
74.0	21.590
74.5	20.612
75.0	19.650
75.5	18.722
76.0	17.811
76.5	16.916
77.0	16.046
77.5	15.193
78.0	14.364
78.5	13.553
79.0	12.758
79.5	11.992
80.0	11.230
80.5	10.493
81.0	9.765
81.5	9.041
82.0	8.333
82.5	7.630

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CANDELA TABULATION - (Cont.)

83.0	6.943
83.5	6.269
84.0	5.603
84.5	4.949
85.0	4.312
85.5	3.696
86.0	3.101
86.5	2.527
87.0	1.969
87.5	1.503
88.0	1.149
88.5	0.841
89.0	0.583
89.5	0.366
90.0	0.233
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
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
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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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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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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

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Zone	Lumens	%Lamp	%Fixt
0-20	150.61	N.A.	23.20
0-30	304.43	N.A.	46.80
0-40	418.50	N.A.	64.40
0-60	579.56	N.A.	89.20
0-80	644.80	N.A.	99.20
0-90	649.95	N.A.	100.00
10-90	611.26	N.A.	94.00
20-40	267.89	N.A.	41.20
20-50	358.28	N.A.	55.10
40-70	205.16	N.A.	31.60
60-80	65.24	N.A.	10.00
70-80	21.13	N.A.	3.30
80-90	5.16	N.A.	0.80
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	649.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.69
10-20	111.92
20-30	153.83
30-40	114.07
40-50	90.39
50-60	70.67
60-70	44.10
70-80	21.13
80-90	5.16
90-100	0.01
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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

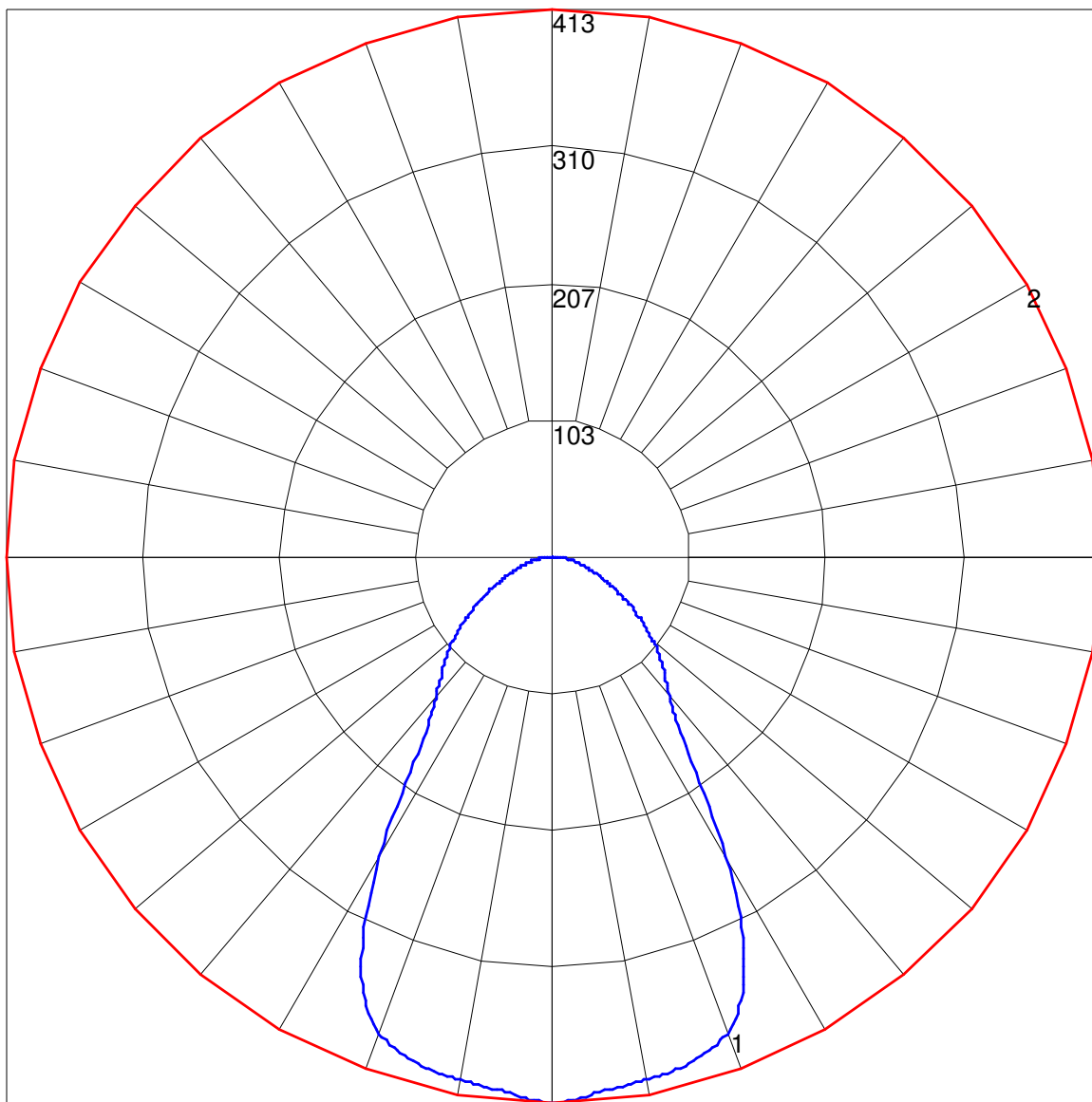
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UGR TABLE - CORRECTED

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	17.5	18.9	17.9	19.2	19.5	17.5	18.9	17.9	19.2	19.5
	3H	18.7	20.0	19.1	20.3	20.7	18.7	20.0	19.1	20.3	20.7
	4H	19.1	20.3	19.5	20.6	21.0	19.1	20.3	19.5	20.6	21.0
	6H	19.4	20.4	19.8	20.8	21.2	19.4	20.4	19.8	20.8	21.2
	8H	19.5	20.5	19.9	20.9	21.3	19.5	20.5	19.9	20.9	21.3
	12H	19.5	20.5	19.9	20.8	21.3	19.5	20.5	19.9	20.8	21.3
4H	2H	17.9	19.1	18.3	19.4	19.8	17.9	19.1	18.3	19.4	19.8
	3H	19.3	20.3	19.7	20.7	21.1	19.3	20.3	19.7	20.7	21.1
	4H	19.8	20.7	20.3	21.1	21.5	19.8	20.7	20.3	21.1	21.5
	6H	20.2	20.9	20.7	21.4	21.8	20.2	20.9	20.7	21.4	21.8
	8H	20.3	21.0	20.8	21.4	21.9	20.3	21.0	20.8	21.4	21.9
	12H	20.4	21.0	20.8	21.5	21.9	20.4	21.0	20.8	21.5	21.9
8H	4H	20.0	20.7	20.4	21.1	21.6	20.0	20.7	20.4	21.1	21.6
	6H	20.4	21.0	20.9	21.5	22.0	20.4	21.0	20.9	21.5	22.0
	8H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	12H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
12H	4H	20.0	20.6	20.5	21.1	21.5	20.0	20.6	20.5	21.1	21.5
	6H	20.5	21.0	21.0	21.4	22.0	20.5	21.0	21.0	21.4	22.0
	8H	20.7	21.1	21.2	21.6	22.2	20.7	21.1	21.2	21.6	22.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 413.447 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.)