



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.11
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 04-24-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl
 [MORE] astic 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	432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	4.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.02
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	7719	7719	7719
55	7035	7035	7035
65	6971	6971	6971
75	7280	7280	7280
85	5946	5946	5946

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CANDELA TABULATION

	<u>0</u>
0.0	243.046
0.5	242.981
1.0	242.818
1.5	242.525
2.0	242.101
2.5	241.580
3.0	240.961
3.5	240.276
4.0	239.494
4.5	238.679
5.0	237.865
5.5	236.952
6.0	235.975
6.5	234.964
7.0	233.856
7.5	232.716
8.0	231.510
8.5	230.239
9.0	228.935
9.5	227.567
10.0	226.165
10.5	224.699
11.0	223.167
11.5	221.538
12.0	219.876
12.5	218.116
13.0	216.324
13.5	214.434
14.0	212.478
14.5	210.490
15.0	208.405
15.5	206.286
16.0	204.135
16.5	201.952
17.0	199.769
17.5	197.553
18.0	195.337
18.5	193.088
19.0	190.872
19.5	188.623
20.0	186.342
20.5	184.093
21.0	181.780
21.5	179.433
22.0	177.054
22.5	174.610
23.0	172.133
23.5	169.624
24.0	167.082
24.5	164.508
25.0	161.933
25.5	159.359
26.0	156.784
26.5	154.242

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CANDELA TABULATION - (Cont.)

27.0	151.733
27.5	149.224
28.0	146.779
28.5	144.335
29.0	141.989
29.5	139.642
30.0	137.361
30.5	135.113
31.0	132.864
31.5	130.681
32.0	128.497
32.5	126.346
33.0	124.195
33.5	122.110
34.0	119.992
34.5	117.971
35.0	115.983
35.5	113.995
36.0	112.040
36.5	110.117
37.0	108.260
37.5	106.435
38.0	104.642
38.5	102.882
39.0	101.188
39.5	99.526
40.0	97.896
40.5	96.300
41.0	94.768
41.5	93.269
42.0	91.802
42.5	90.368
43.0	88.967
43.5	87.598
44.0	86.230
44.5	84.926
45.0	83.623
45.5	82.352
46.0	81.113
46.5	79.875
47.0	78.636
47.5	77.463
48.0	76.258
48.5	75.084
49.0	73.944
49.5	72.836
50.0	71.728
50.5	70.652
51.0	69.577
51.5	68.534
52.0	67.491
52.5	66.481
53.0	65.471
53.5	64.558
54.0	63.678
54.5	62.766

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CANDELA TABULATION - (Cont.)

55.0	61.821
55.5	60.876
56.0	59.963
56.5	59.083
57.0	58.334
57.5	57.486
58.0	56.607
58.5	55.759
59.0	54.912
59.5	54.065
60.0	53.217
60.5	52.403
61.0	51.588
61.5	50.773
62.0	49.958
62.5	49.144
63.0	48.329
63.5	47.547
64.0	46.732
64.5	45.917
65.0	45.135
65.5	44.321
66.0	43.506
66.5	42.691
67.0	41.876
67.5	41.094
68.0	40.280
68.5	39.497
69.0	38.683
69.5	37.901
70.0	37.086
70.5	36.304
71.0	35.522
71.5	34.707
72.0	33.925
72.5	33.110
73.0	32.292
73.5	31.458
74.0	30.607
74.5	29.740
75.0	28.864
75.5	27.974
76.0	27.065
76.5	26.139
77.0	25.194
77.5	24.233
78.0	23.249
78.5	22.248
79.0	21.238
79.5	20.205
80.0	19.159
80.5	18.100
81.0	17.024
81.5	15.933
82.0	14.825
82.5	13.700

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CANDELA TABULATION - (Cont.)

83.0	12.563
83.5	11.419
84.0	10.262
84.5	9.102
85.0	7.939
85.5	6.778
86.0	5.628
86.5	4.530
87.0	3.555
87.5	2.764
88.0	2.076
88.5	1.466
89.0	0.926
89.5	0.518
90.0	0.264
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-L10-835-(L5)-DIM1-UNV-SW-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
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129.0	0.000
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130.0	0.000
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132.5	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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L10-835-(L5)-DIM1-UNV-SW-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-L10-835-(L5)-DIM1-UNV-SW-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

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Zone	Lumens	%Lamp	%Fixt
0-20	80.58	N.A.	18.70
0-30	154.80	N.A.	35.80
0-40	227.48	N.A.	52.70
0-60	347.74	N.A.	80.50
0-80	422.62	N.A.	97.90
0-90	431.80	N.A.	100.00
10-90	409.46	N.A.	94.80
20-40	146.91	N.A.	34.00
20-50	211.68	N.A.	49.00
40-70	164.94	N.A.	38.20
60-80	74.88	N.A.	17.30
70-80	30.19	N.A.	7.00
80-90	9.18	N.A.	2.10
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	431.80	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.33
10-20	58.25
20-30	74.22
30-40	72.68
40-50	64.77
50-60	55.48
60-70	44.68
70-80	30.19
80-90	9.18
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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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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	17.5	19.0	17.8	19.3	19.6	17.5	19.0	17.8	19.3	19.6
	3H	19.6	21.0	20.0	21.3	21.7	19.6	21.0	20.0	21.3	21.7
	4H	20.5	21.8	20.9	22.2	22.5	20.5	21.8	20.9	22.2	22.5
	6H	21.2	22.5	21.6	22.8	23.2	21.2	22.5	21.6	22.8	23.2
	8H	21.5	22.7	21.9	23.1	23.5	21.5	22.7	21.9	23.1	23.5
	12H	21.7	22.8	22.1	23.2	23.6	21.7	22.8	22.1	23.2	23.6

UGR Viewed Endwise

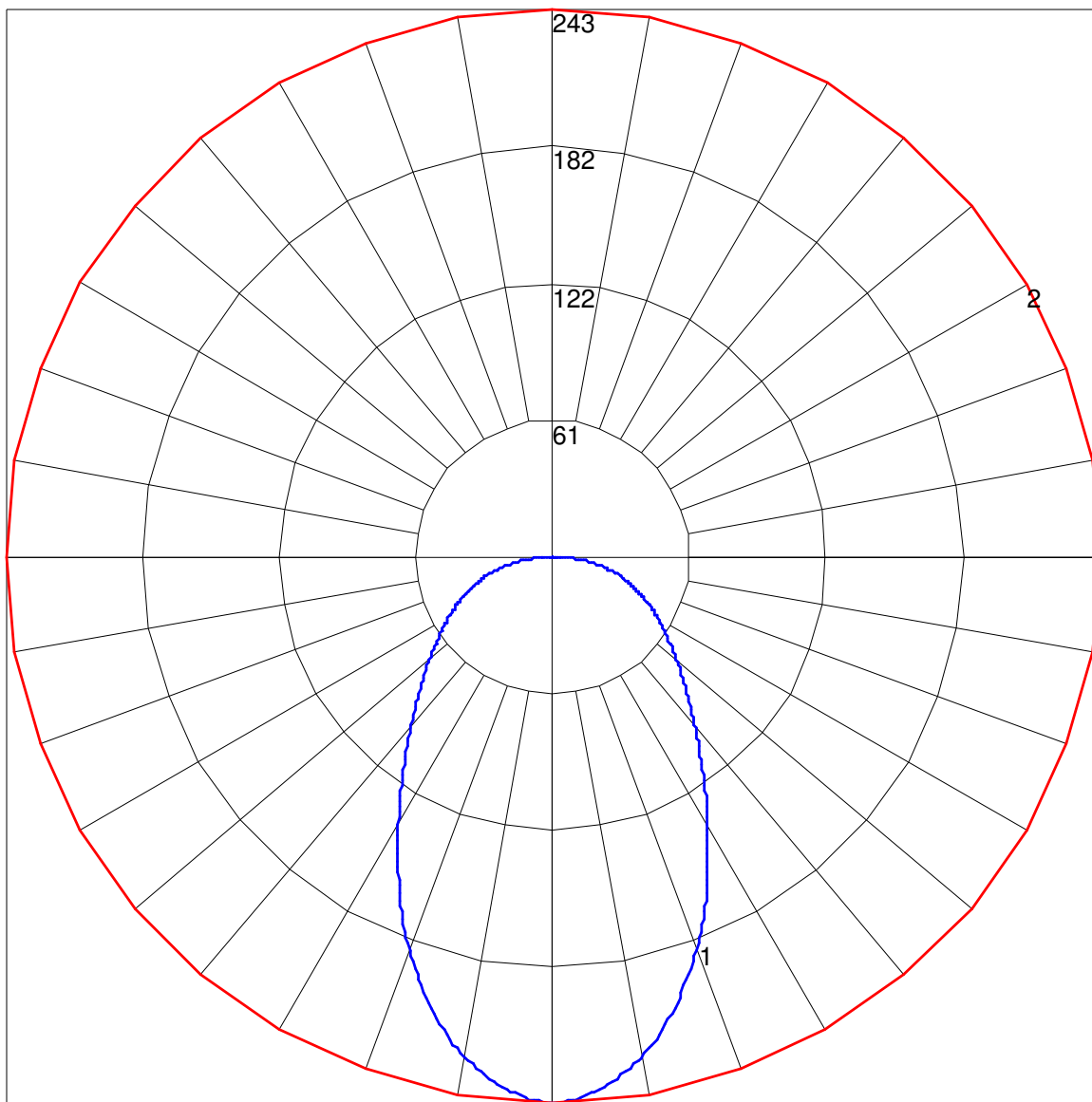
4H	2H	18.2	19.5	18.6	19.8	20.2	18.2	19.5	18.6	19.8	20.2
	3H	20.5	21.6	20.9	22.0	22.4	20.5	21.6	20.9	22.0	22.4
	4H	21.6	22.6	22.0	23.0	23.4	21.6	22.6	22.0	23.0	23.4
	6H	22.5	23.4	22.9	23.8	24.3	22.5	23.4	22.9	23.8	24.3
	8H	22.8	23.6	23.3	24.1	24.5	22.8	23.6	23.3	24.1	24.5
	12H	23.0	23.8	23.5	24.2	24.7	23.0	23.8	23.5	24.2	24.7

8H	4H	22.0	22.8	22.5	23.3	23.7	22.0	22.8	22.5	23.3	23.7
	6H	23.1	23.8	23.6	24.2	24.7	23.1	23.8	23.6	24.2	24.7
	8H	23.5	24.1	24.0	24.6	25.1	23.5	24.1	24.0	24.6	25.1
	12H	23.8	24.3	24.3	24.8	25.4	23.8	24.3	24.3	24.8	25.4

12H	4H	22.1	22.8	22.5	23.3	23.7	22.1	22.8	22.5	23.3	23.7
	6H	23.2	23.8	23.7	24.2	24.8	23.2	23.8	23.7	24.2	24.8
	8H	23.6	24.2	24.1	24.7	25.2	23.6	24.2	24.1	24.7	25.2

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 243.046 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.)