



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-835-(L12)-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 03-01-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L15-835-(L12)-DIM-UNV-LW-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	1216
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	11.3
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	20208	20208	20208
55	16824	16824	16824
65	12781	12781	12781
75	9269	9269	9269
85	6040	6040	6040

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CANDELA TABULATION

	<u>0</u>
0.0	773.273
0.5	773.118
1.0	772.495
1.5	771.561
2.0	770.393
2.5	768.836
3.0	767.279
3.5	765.488
4.0	763.854
4.5	762.219
5.0	761.051
5.5	759.961
6.0	758.949
6.5	757.937
7.0	756.847
7.5	755.835
8.0	754.823
8.5	753.889
9.0	752.955
9.5	752.176
10.0	751.398
10.5	750.775
11.0	750.230
11.5	749.919
12.0	749.374
12.5	748.829
13.0	748.050
13.5	747.038
14.0	745.793
14.5	744.391
15.0	742.912
15.5	741.044
16.0	739.020
16.5	736.996
17.0	734.972
17.5	732.870
18.0	730.612
18.5	728.043
19.0	725.163
19.5	721.971
20.0	718.312
20.5	714.342
21.0	709.437
21.5	703.598
22.0	696.981
22.5	689.508
23.0	681.334
23.5	672.459
24.0	662.650
24.5	652.062
25.0	640.619
25.5	628.708
26.0	616.018
26.5	602.784

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CANDELA TABULATION - (Cont.)

27.0	588.693
27.5	574.214
28.0	558.955
28.5	542.840
29.0	526.103
29.5	508.509
30.0	490.448
30.5	471.842
31.0	453.236
31.5	434.475
32.0	416.258
32.5	398.820
33.0	382.082
33.5	366.435
34.0	352.033
34.5	338.954
35.0	327.277
35.5	316.534
36.0	307.114
36.5	298.473
37.0	290.766
37.5	283.837
38.0	277.531
38.5	271.771
39.0	266.321
39.5	261.417
40.0	256.668
40.5	252.230
41.0	248.104
41.5	244.056
42.0	240.164
42.5	236.583
43.0	232.924
43.5	229.343
44.0	225.840
44.5	222.414
45.0	218.911
45.5	215.564
46.0	212.138
46.5	208.713
47.0	205.210
47.5	201.784
48.0	198.281
48.5	194.778
49.0	191.275
49.5	187.616
50.0	184.113
50.5	180.532
51.0	176.951
51.5	173.292
52.0	169.633
52.5	165.974
53.0	162.315
53.5	158.656
54.0	155.153
54.5	151.572

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CANDELA TABULATION - (Cont.)

55.0	147.835
55.5	144.176
56.0	140.517
56.5	137.092
57.0	133.667
57.5	130.086
58.0	126.504
58.5	123.001
59.0	119.576
59.5	116.151
60.0	112.881
60.5	109.611
61.0	106.419
61.5	103.228
62.0	100.192
62.5	97.155
63.0	94.197
63.5	91.239
64.0	88.359
64.5	85.556
65.0	82.753
65.5	80.029
66.0	77.312
66.5	74.642
67.0	72.002
67.5	69.418
68.0	66.880
68.5	64.334
69.0	61.867
69.5	59.422
70.0	57.048
70.5	54.751
71.0	52.501
71.5	50.322
72.0	48.220
72.5	46.180
73.0	44.195
73.5	42.249
74.0	40.380
74.5	38.551
75.0	36.752
75.5	35.016
76.0	33.312
76.5	31.638
77.0	30.011
77.5	28.415
78.0	26.866
78.5	25.348
79.0	23.861
79.5	22.428
80.0	21.004
80.5	19.626
81.0	18.263
81.5	16.909
82.0	15.585
82.5	14.270

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CANDELA TABULATION - (Cont.)

83.0	12.985
83.5	11.724
84.0	10.478
84.5	9.256
85.0	8.065
85.5	6.913
86.0	5.800
86.5	4.725
87.0	3.682
87.5	2.810
88.0	2.149
88.5	1.573
89.0	1.090
89.5	0.685
90.0	0.436
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
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127.0	0.000
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128.0	0.000
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129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
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131.5	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

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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
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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	281.68	N.A.	23.20
0-30	569.39	N.A.	46.80
0-40	782.72	N.A.	64.40
0-60	1083.95	N.A.	89.20
0-80	1205.97	N.A.	99.20
0-90	1215.61	N.A.	100.00
10-90	1143.25	N.A.	94.00
20-40	501.05	N.A.	41.20
20-50	670.10	N.A.	55.10
40-70	383.72	N.A.	31.60
60-80	122.01	N.A.	10.00
70-80	39.52	N.A.	3.30
80-90	9.64	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	1215.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.36
10-20	209.32
20-30	287.71
30-40	213.34
40-50	169.05
50-60	132.18
60-70	82.49
70-80	39.52
80-90	9.64
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	100	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	77	74	70	69
4	89	79	71	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

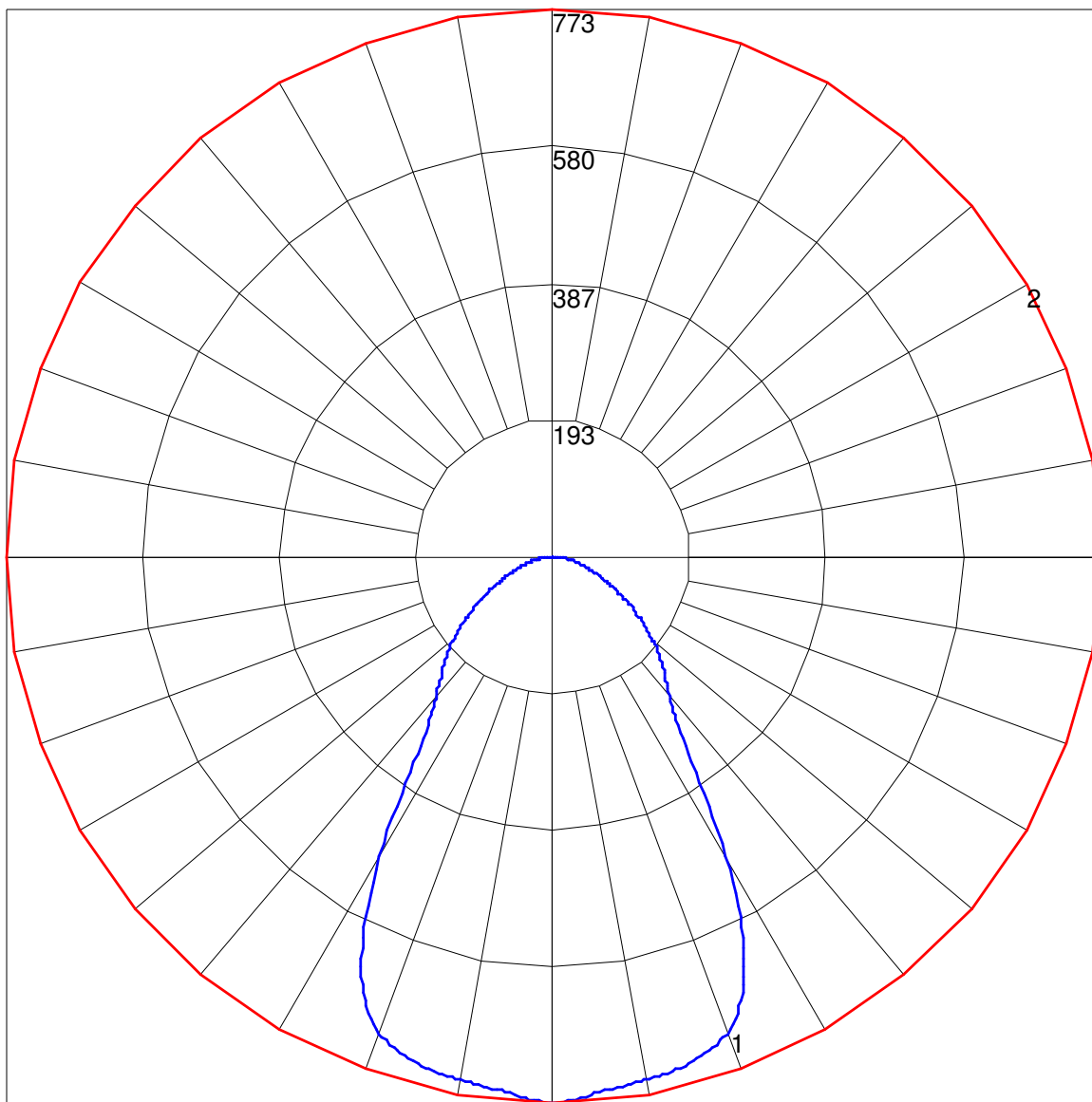
X=2H	Y=2H	19.7	21.1	20.1	21.4	21.7	19.7	21.1	20.1	21.4	21.7
	3H	20.9	22.2	21.3	22.5	22.8	20.9	22.2	21.3	22.5	22.8
	4H	21.3	22.5	21.7	22.8	23.2	21.3	22.5	21.7	22.8	23.2
	6H	21.6	22.6	22.0	23.0	23.4	21.6	22.6	22.0	23.0	23.4
	8H	21.7	22.7	22.1	23.1	23.5	21.7	22.7	22.1	23.1	23.5
	12H	21.7	22.7	22.1	23.0	23.5	21.7	22.7	22.1	23.0	23.5

UGR Viewed Endwise

4H	2H	20.1	21.3	20.5	21.6	22.0	20.1	21.3	20.5	21.6	22.0
	3H	21.5	22.5	21.9	22.9	23.3	21.5	22.5	21.9	22.9	23.3
	4H	22.0	22.9	22.5	23.3	23.7	22.0	22.9	22.5	23.3	23.7
	6H	22.4	23.1	22.9	23.6	24.0	22.4	23.1	22.9	23.6	24.0
	8H	22.5	23.2	22.9	23.6	24.1	22.5	23.2	22.9	23.6	24.1
	12H	22.6	23.2	23.0	23.7	24.1	22.6	23.2	23.0	23.7	24.1
8H	4H	22.2	22.9	22.6	23.3	23.8	22.2	22.9	22.6	23.3	23.8
	6H	22.6	23.2	23.1	23.7	24.2	22.6	23.2	23.1	23.7	24.2
	8H	22.8	23.3	23.3	23.8	24.3	22.8	23.3	23.3	23.8	24.3
	12H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
12H	4H	22.2	22.8	22.7	23.3	23.7	22.2	22.8	22.7	23.3	23.7
	6H	22.7	23.2	23.2	23.6	24.2	22.7	23.2	23.2	23.6	24.2
	8H	22.9	23.3	23.4	23.8	24.4	22.9	23.3	23.4	23.8	24.4

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 773.273 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.)