



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L15-835-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL 12326812.29
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 18 DEC 2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6PR-TL-L15-835-DIM-UNV-LW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass
 [MORE] s patterned lens enclosure
 [LAMP] One white LED
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	16.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.26
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	39410	39410	39410
55	19458	19458	19458
65	13181	13181	13181
75	9802	9802	9802
85	6788	6788	6788

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CANDELA TABULATION

	<u>0</u>
0.0	897.927
0.5	897.159
1.0	896.391
1.5	895.623
2.0	894.087
2.5	892.551
3.0	890.246
3.5	888.710
4.0	886.406
4.5	884.101
5.0	881.797
5.5	879.493
6.0	877.188
6.5	874.884
7.0	872.580
7.5	869.507
8.0	867.203
8.5	864.898
9.0	861.826
9.5	858.754
10.0	856.449
10.5	853.377
11.0	850.304
11.5	848.000
12.0	844.927
12.5	841.855
13.0	838.783
13.5	835.710
14.0	832.638
14.5	829.565
15.0	825.725
15.5	822.652
16.0	819.580
16.5	816.507
17.0	812.667
17.5	809.594
18.0	807.290
18.5	804.217
19.0	801.145
19.5	798.072
20.0	795.000
20.5	792.696
21.0	789.623
21.5	786.551
22.0	782.710
22.5	778.870
23.0	775.797
23.5	771.188
24.0	767.578
24.5	763.507
25.0	759.359
25.5	755.212
26.0	751.064
26.5	746.762

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CANDELA TABULATION - (Cont.)

27.0	742.538
27.5	738.313
28.0	734.088
28.5	729.941
29.0	725.946
29.5	721.875
30.0	717.497
30.5	713.119
31.0	708.510
31.5	703.748
32.0	698.525
32.5	692.994
33.0	687.310
33.5	681.165
34.0	674.559
34.5	667.493
35.0	660.119
35.5	652.130
36.0	643.835
36.5	635.078
37.0	625.784
37.5	616.259
38.0	606.274
38.5	595.674
39.0	584.690
39.5	573.168
40.0	561.416
40.5	549.126
41.0	537.067
41.5	524.470
42.0	511.642
42.5	498.277
43.0	484.681
43.5	470.625
44.0	456.414
44.5	441.820
45.0	426.919
45.5	411.556
46.0	395.733
46.5	379.756
47.0	363.626
47.5	347.649
48.0	331.749
48.5	316.003
49.0	300.871
49.5	285.893
50.0	271.913
50.5	258.317
51.0	245.720
51.5	233.891
52.0	222.830
52.5	212.538
53.0	202.859
53.5	193.872
54.0	185.730
54.5	178.049

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CANDELA TABULATION - (Cont.)

55.0	170.983
55.5	164.454
56.0	158.385
56.5	152.701
57.0	147.171
57.5	142.025
58.0	137.185
58.5	132.500
59.0	128.199
59.5	124.051
60.0	119.903
60.5	115.985
61.0	112.145
61.5	108.458
62.0	104.848
62.5	101.391
63.0	98.012
63.5	94.709
64.0	91.483
64.5	88.410
65.0	85.338
65.5	82.419
66.0	79.500
66.5	76.658
67.0	73.893
67.5	71.281
68.0	68.593
68.5	66.135
69.0	63.600
69.5	61.219
70.0	58.838
70.5	56.610
71.0	54.459
71.5	52.309
72.0	50.235
72.5	48.314
73.0	46.317
73.5	44.397
74.0	42.554
74.5	40.710
75.0	38.867
75.5	37.177
76.0	35.410
76.5	33.797
77.0	32.107
77.5	30.494
78.0	28.881
78.5	27.345
79.0	25.809
79.5	24.272
80.0	22.813
80.5	21.354
81.0	19.894
81.5	18.435
82.0	17.052
82.5	15.670

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CANDELA TABULATION - (Cont.)

83.0	14.287
83.5	12.981
84.0	11.599
84.5	10.370
85.0	9.064
85.5	7.835
86.0	6.606
86.5	5.454
87.0	4.378
87.5	3.457
88.0	2.688
88.5	1.997
89.0	1.459
89.5	0.999
90.0	0.614
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
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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
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
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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
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154.5	0.000
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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	316.53	N.A.	18.70
0-30	666.46	N.A.	39.30
0-40	1074.66	N.A.	63.40
0-60	1558.14	N.A.	91.90
0-80	1685.45	N.A.	99.40
0-90	1696.18	N.A.	100.00
10-90	1612.82	N.A.	95.10
20-40	758.13	N.A.	44.70
20-50	1082.03	N.A.	63.80
40-70	569.11	N.A.	33.60
60-80	127.31	N.A.	7.50
70-80	41.69	N.A.	2.50
80-90	10.73	N.A.	0.60
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1696.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.36
10-20	233.16
20-30	349.93
30-40	408.20
40-50	323.90
50-60	159.58
60-70	85.62
70-80	41.69
80-90	10.73
90-100	0.02
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	182	182	182	182	178	178	178	178	170	170	170	162	162	162	156	156	156	153
1	170	164	159	154	166	161	156	152	154	150	147	148	145	142	143	141	138	135
2	157	147	139	132	154	144	137	130	139	133	127	134	129	124	130	126	122	119
3	146	133	122	114	143	130	121	113	126	118	111	122	115	109	118	113	108	105
4	135	120	109	100	132	118	108	99	114	105	98	111	103	97	108	101	96	93
5	126	109	97	89	123	107	96	88	104	95	87	102	93	86	99	91	85	83
6	117	100	88	79	115	98	87	79	96	86	78	93	84	77	91	83	77	74
7	110	91	79	71	107	90	79	71	88	78	70	86	77	70	84	76	69	67
8	102	84	72	64	100	83	72	64	81	71	64	79	70	63	78	69	63	61
9	96	78	66	59	94	77	66	58	75	65	58	74	64	58	72	64	58	55
10	90	72	61	54	89	71	61	54	70	60	53	68	59	53	67	59	53	50

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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	17.7	19.1	18.1	19.4	19.7	17.7	19.1	18.1	19.4	19.7
	3H	18.8	20.0	19.2	20.3	20.7	18.8	20.0	19.2	20.3	20.7
	4H	19.2	20.3	19.6	20.7	21.1	19.2	20.3	19.6	20.7	21.1
	6H	19.4	20.5	19.9	20.9	21.3	19.4	20.5	19.9	20.9	21.3
	8H	19.5	20.5	19.9	20.9	21.3	19.5	20.5	19.9	20.9	21.3
	12H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3

UGR Viewed Endwise

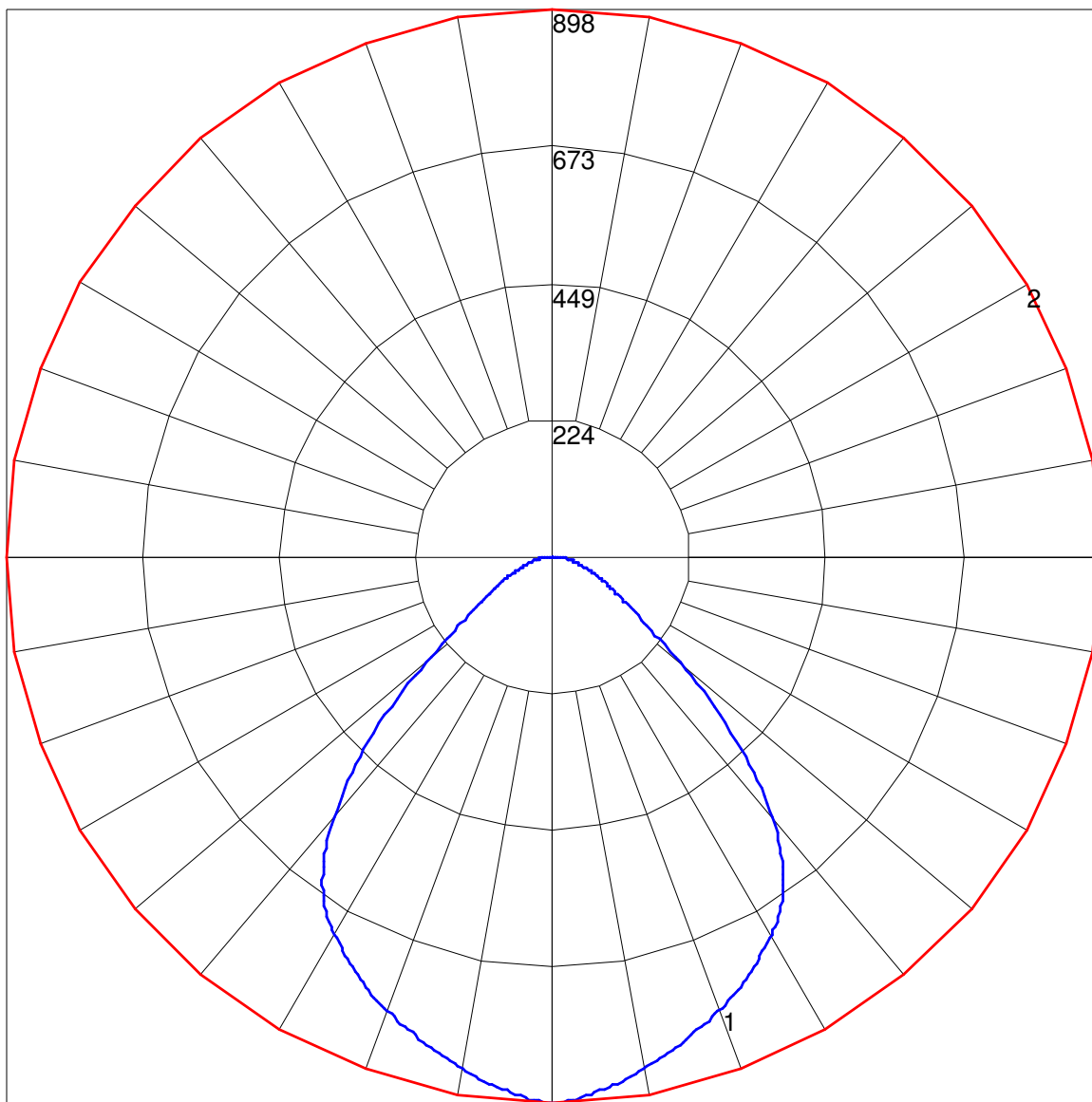
4H	2H	18.1	19.2	18.5	19.6	19.9	18.1	19.2	18.5	19.6	19.9
	3H	19.3	20.3	19.8	20.7	21.1	19.3	20.3	19.8	20.7	21.1
	4H	19.8	20.7	20.3	21.1	21.5	19.8	20.7	20.3	21.1	21.5
	6H	20.2	21.0	20.7	21.4	21.9	20.2	21.0	20.7	21.4	21.9
	8H	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.8	21.5	21.9
	12H	20.4	21.0	20.9	21.5	22.0	20.4	21.0	20.9	21.5	22.0

8H	4H	20.0	20.7	20.5	21.1	21.6	20.0	20.7	20.5	21.1	21.6
	6H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0
	8H	20.6	21.1	21.2	21.7	22.1	20.6	21.1	21.2	21.7	22.1
	12H	20.8	21.2	21.3	21.7	22.3	20.8	21.2	21.3	21.7	22.3

12H	4H	20.0	20.6	20.5	21.1	21.6	20.0	20.6	20.5	21.1	21.6
	6H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	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 = 22.3

POLAR GRAPH



Maximum Candela = 897.927 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.)