



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L30-835-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.
 [ISSUEDATE] 18 DEC 2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6PR-TL-L30-835-DIM-UNV-LW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas
 [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	3293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	33.2
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	76519	76519	76519
55	37781	37781	37781
65	25592	25592	25592
75	19032	19032	19032
85	13180	13180	13180

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CANDELA TABULATION

	<u>0</u>
0.0	1743.441
0.5	1741.949
1.0	1740.458
1.5	1738.967
2.0	1735.984
2.5	1733.001
3.0	1728.527
3.5	1725.544
4.0	1721.070
4.5	1716.596
5.0	1712.121
5.5	1707.647
6.0	1703.173
6.5	1698.699
7.0	1694.225
7.5	1688.259
8.0	1683.785
8.5	1679.311
9.0	1673.345
9.5	1667.380
10.0	1662.905
10.5	1656.940
11.0	1650.974
11.5	1646.500
12.0	1640.534
12.5	1634.569
13.0	1628.603
13.5	1622.638
14.0	1616.672
14.5	1610.707
15.0	1603.250
15.5	1597.284
16.0	1591.318
16.5	1585.353
17.0	1577.896
17.5	1571.930
18.0	1567.456
18.5	1561.491
19.0	1555.525
19.5	1549.559
20.0	1543.594
20.5	1539.120
21.0	1533.154
21.5	1527.188
22.0	1519.732
22.5	1512.275
23.0	1506.309
23.5	1497.361
24.0	1490.351
24.5	1482.447
25.0	1474.393
25.5	1466.340
26.0	1458.286
26.5	1449.934

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CANDELA TABULATION - (Cont.)

27.0	1441.732
27.5	1433.529
28.0	1425.326
28.5	1417.273
29.0	1409.517
29.5	1401.613
30.0	1393.112
30.5	1384.611
31.0	1375.663
31.5	1366.416
32.0	1356.275
32.5	1345.537
33.0	1334.500
33.5	1322.569
34.0	1309.743
34.5	1296.022
35.0	1281.705
35.5	1266.194
36.0	1250.087
36.5	1233.085
37.0	1215.040
37.5	1196.546
38.0	1177.158
38.5	1156.577
39.0	1135.250
39.5	1112.879
40.0	1090.061
40.5	1066.198
41.0	1042.783
41.5	1018.325
42.0	993.418
42.5	967.468
43.0	941.070
43.5	913.778
44.0	886.187
44.5	857.850
45.0	828.917
45.5	799.089
46.0	768.367
46.5	737.346
47.0	706.026
47.5	675.005
48.0	644.133
48.5	613.560
49.0	584.179
49.5	555.097
50.0	527.954
50.5	501.556
51.0	477.097
51.5	454.130
52.0	432.654
52.5	412.669
53.0	393.877
53.5	376.428
54.0	360.619
54.5	345.705

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CANDELA TABULATION - (Cont.)

55.0	331.985
55.5	319.308
56.0	307.526
56.5	296.489
57.0	285.751
57.5	275.759
58.0	266.363
58.5	257.266
59.0	248.914
59.5	240.860
60.0	232.807
60.5	225.201
61.0	217.744
61.5	210.585
62.0	203.575
62.5	196.864
63.0	190.302
63.5	183.889
64.0	177.625
64.5	171.660
65.0	165.694
65.5	160.027
66.0	154.359
66.5	148.841
67.0	143.472
67.5	138.401
68.0	133.182
68.5	128.409
69.0	123.488
69.5	118.864
70.0	114.241
70.5	109.916
71.0	105.740
71.5	101.564
72.0	97.537
72.5	93.809
73.0	89.931
73.5	86.203
74.0	82.623
74.5	79.044
75.0	75.465
75.5	72.184
76.0	68.753
76.5	65.621
77.0	62.340
77.5	59.208
78.0	56.076
78.5	53.094
79.0	50.111
79.5	47.128
80.0	44.294
80.5	41.461
81.0	38.627
81.5	35.793
82.0	33.109
82.5	30.424

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CANDELA TABULATION - (Cont.)

83.0	27.740
83.5	25.205
84.0	22.520
84.5	20.134
85.0	17.598
85.5	15.212
86.0	12.826
86.5	10.589
87.0	8.501
87.5	6.711
88.0	5.220
88.5	3.878
89.0	2.834
89.5	1.939
90.0	1.193
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
128.0	0.000
128.5	0.000
129.0	0.000
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130.0	0.000
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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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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
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154.0	0.000
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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	614.58	N.A.	18.70
0-30	1294.01	N.A.	39.30
0-40	2086.58	N.A.	63.40
0-60	3025.33	N.A.	91.90
0-80	3272.52	N.A.	99.40
0-90	3293.35	N.A.	100.00
10-90	3131.49	N.A.	95.10
20-40	1472.01	N.A.	44.70
20-50	2100.9	N.A.	63.80
40-70	1105.00	N.A.	33.60
60-80	247.19	N.A.	7.50
70-80	80.94	N.A.	2.50
80-90	20.83	N.A.	0.60
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3293.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.86
10-20	452.72
20-30	679.43
30-40	792.57
40-50	628.90
50-60	309.85
60-70	166.25
70-80	80.94
80-90	20.83
90-100	0.03
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	353	353	353	353	345	345	345	345	329	329	329	315	315	315	302	302	302	296
1	329	318	308	299	322	312	303	294	299	292	285	288	282	277	278	273	268	263
2	306	286	270	256	298	281	266	253	270	258	247	261	251	242	252	244	236	231
3	283	258	238	222	277	253	235	220	245	229	216	237	224	212	230	219	209	203
4	263	233	211	194	257	229	209	193	222	205	190	216	200	188	210	197	186	180
5	245	212	189	172	239	209	187	171	203	184	169	197	181	168	192	178	166	160
6	228	193	170	153	223	191	169	153	186	166	152	181	164	150	176	161	149	144
7	213	177	154	138	208	175	153	138	171	151	137	167	149	136	163	147	135	130
8	199	163	140	125	195	161	140	125	157	138	124	154	136	123	151	135	123	118
9	187	151	129	114	183	149	128	114	146	127	113	143	125	112	140	124	112	107
10	176	140	118	104	172	138	118	104	136	117	104	133	115	103	130	114	103	98

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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

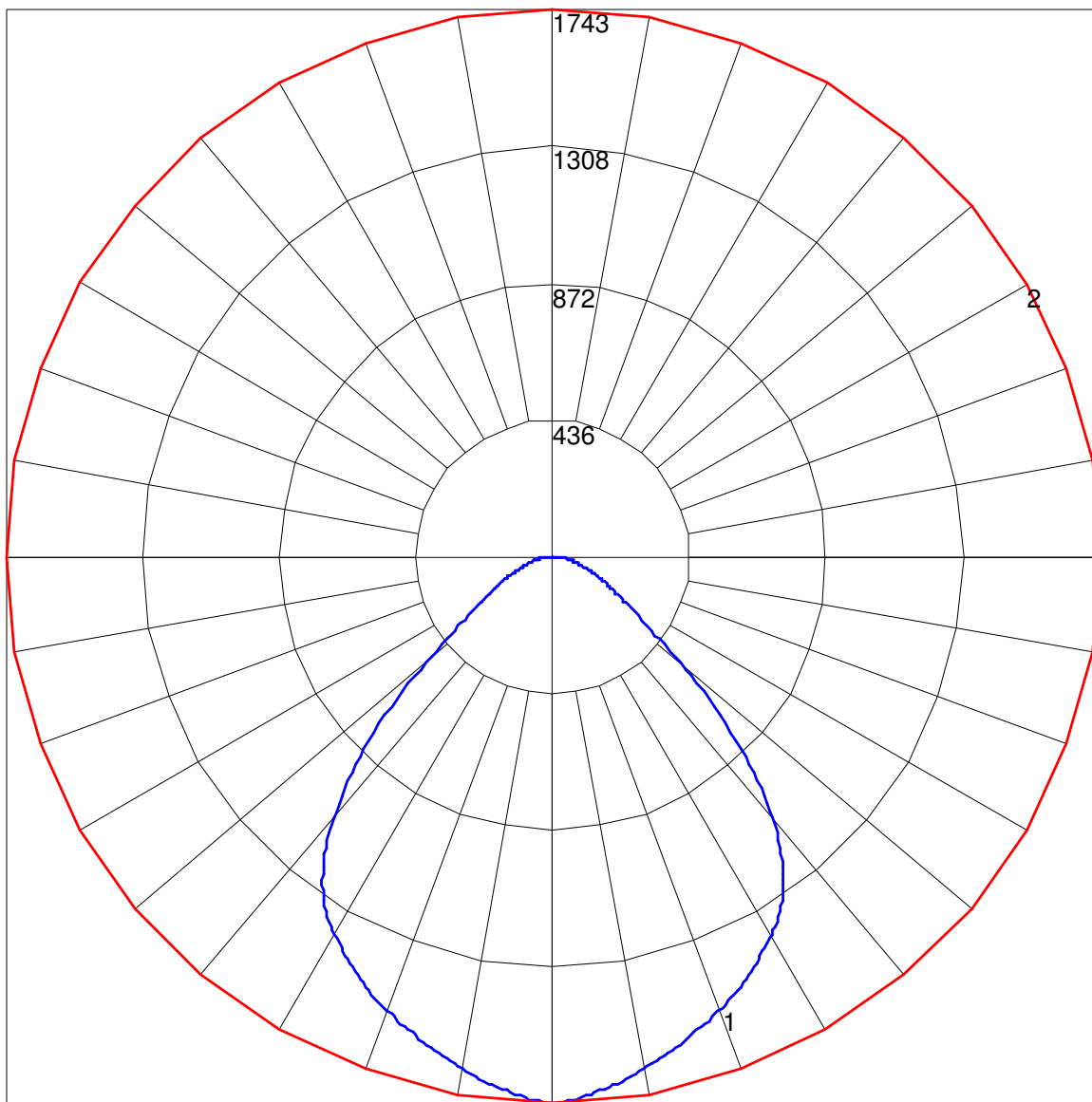
4H	2H	18.1	19.2	18.5	19.6	19.9	18.1	19.2	18.5	19.6	19.9
	3H	19.3	20.3	19.8	20.7	21.1	19.3	20.3	19.8	20.7	21.1
	4H	19.8	20.7	20.3	21.1	21.5	19.8	20.7	20.3	21.1	21.5
	6H	20.2	21.0	20.7	21.4	21.9	20.2	21.0	20.7	21.4	21.9
	8H	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.8	21.5	21.9
	12H	20.4	21.0	20.9	21.5	22.0	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 = 1743.441 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.)