



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L30-935-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 12326812.29
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 04/14/2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6PR-TL-L30-935-DIM-UNV-LW-OF-WH
[LUMINAIRE] Black formed aluminum housing, white reflector, clear glas
[MORE] s patterned lens enclosure
[LAMP] One white LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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	62739	62739	62739
55	30977	30977	30977
65	20983	20983	20983
75	15605	15605	15605
85	10806	10806	10806

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CANDELA TABULATION

	<u>0</u>
0.0	1429.484
0.5	1428.261
1.0	1427.038
1.5	1425.815
2.0	1423.369
2.5	1420.924
3.0	1417.255
3.5	1414.810
4.0	1411.141
4.5	1407.473
5.0	1403.804
5.5	1400.136
6.0	1396.467
6.5	1392.799
7.0	1389.130
7.5	1384.239
8.0	1380.571
8.5	1376.902
9.0	1372.011
9.5	1367.119
10.0	1363.451
10.5	1358.560
11.0	1353.668
11.5	1350.000
12.0	1345.109
12.5	1340.217
13.0	1335.326
13.5	1330.435
14.0	1325.543
14.5	1320.652
15.0	1314.538
15.5	1309.647
16.0	1304.755
16.5	1299.864
17.0	1293.750
17.5	1288.859
18.0	1285.190
18.5	1280.299
19.0	1275.408
19.5	1270.516
20.0	1265.625
20.5	1261.956
21.0	1257.065
21.5	1252.174
22.0	1246.060
22.5	1239.946
23.0	1235.054
23.5	1227.717
24.0	1221.970
24.5	1215.489
25.0	1208.886
25.5	1202.283
26.0	1195.679
26.5	1188.831

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CANDELA TABULATION - (Cont.)

27.0	1182.106
27.5	1175.380
28.0	1168.655
28.5	1162.052
29.0	1155.693
29.5	1149.212
30.0	1142.242
30.5	1135.272
31.0	1127.935
31.5	1120.353
32.0	1112.038
32.5	1103.234
33.0	1094.185
33.5	1084.402
34.0	1073.886
34.5	1062.636
35.0	1050.897
35.5	1038.179
36.0	1024.973
36.5	1011.033
37.0	996.236
37.5	981.073
38.0	965.177
38.5	948.302
39.0	930.815
39.5	912.473
40.0	893.764
40.5	874.198
41.0	855.000
41.5	834.946
42.0	814.524
42.5	793.247
43.0	771.603
43.5	749.225
44.0	726.603
44.5	703.370
45.0	679.647
45.5	655.190
46.0	630.000
46.5	604.565
47.0	578.886
47.5	553.451
48.0	528.139
48.5	503.071
49.0	478.981
49.5	455.136
50.0	432.880
50.5	411.236
51.0	391.182
51.5	372.351
52.0	354.742
52.5	338.356
53.0	322.948
53.5	308.641
54.0	295.679
54.5	283.451

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CANDELA TABULATION - (Cont.)

55.0	272.201
55.5	261.807
56.0	252.147
56.5	243.098
57.0	234.293
57.5	226.101
58.0	218.397
58.5	210.937
59.0	204.090
59.5	197.486
60.0	190.883
60.5	184.647
61.0	178.533
61.5	172.663
62.0	166.916
62.5	161.413
63.0	156.033
63.5	150.774
64.0	145.639
64.5	140.747
65.0	135.856
65.5	131.209
66.0	126.562
66.5	122.038
67.0	117.636
67.5	113.478
68.0	109.198
68.5	105.285
69.0	101.250
69.5	97.459
70.0	93.668
70.5	90.122
71.0	86.698
71.5	83.274
72.0	79.973
72.5	76.916
73.0	73.736
73.5	70.679
74.0	67.745
74.5	64.810
75.0	61.875
75.5	59.185
76.0	56.372
76.5	53.804
77.0	51.114
77.5	48.546
78.0	45.978
78.5	43.533
79.0	41.087
79.5	38.641
80.0	36.318
80.5	33.995
81.0	31.671
81.5	29.348
82.0	27.147
82.5	24.946

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CANDELA TABULATION - (Cont.)

83.0	22.745
83.5	20.666
84.0	18.465
84.5	16.508
85.0	14.429
85.5	12.473
86.0	10.516
86.5	8.682
87.0	6.970
87.5	5.503
88.0	4.280
88.5	3.179
89.0	2.323
89.5	1.590
90.0	0.978
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
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118.5	0.000
119.0	0.000
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121.0	0.000
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122.0	0.000
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123.0	0.000
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125.5	0.000
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126.5	0.000
127.0	0.000
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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
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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	503.90	N.A.	18.70
0-30	1060.99	N.A.	39.30
0-40	1710.83	N.A.	63.40
0-60	2480.53	N.A.	91.90
0-80	2683.2	N.A.	99.40
0-90	2700.29	N.A.	100.00
10-90	2567.57	N.A.	95.10
20-40	1206.93	N.A.	44.70
20-50	1722.57	N.A.	63.80
40-70	906.01	N.A.	33.60
60-80	202.68	N.A.	7.50
70-80	66.36	N.A.	2.50
80-90	17.08	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	2700.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.71
10-20	371.19
20-30	557.08
30-40	649.85
40-50	515.65
50-60	254.05
60-70	136.31
70-80	66.36
80-90	17.08
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

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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	20.8	22.2	21.2	22.5	22.8	20.8	22.2	21.2	22.5	22.8
	3H	21.9	23.1	22.3	23.4	23.8	21.9	23.1	22.3	23.4	23.8
	4H	22.3	23.4	22.7	23.8	24.1	22.3	23.4	22.7	23.8	24.1
	6H	22.5	23.6	22.9	24.0	24.4	22.5	23.6	22.9	24.0	24.4
	8H	22.6	23.6	23.0	24.0	24.4	22.6	23.6	23.0	24.0	24.4
	12H	22.7	23.6	23.1	24.0	24.4	22.7	23.6	23.1	24.0	24.4

UGR Viewed Endwise

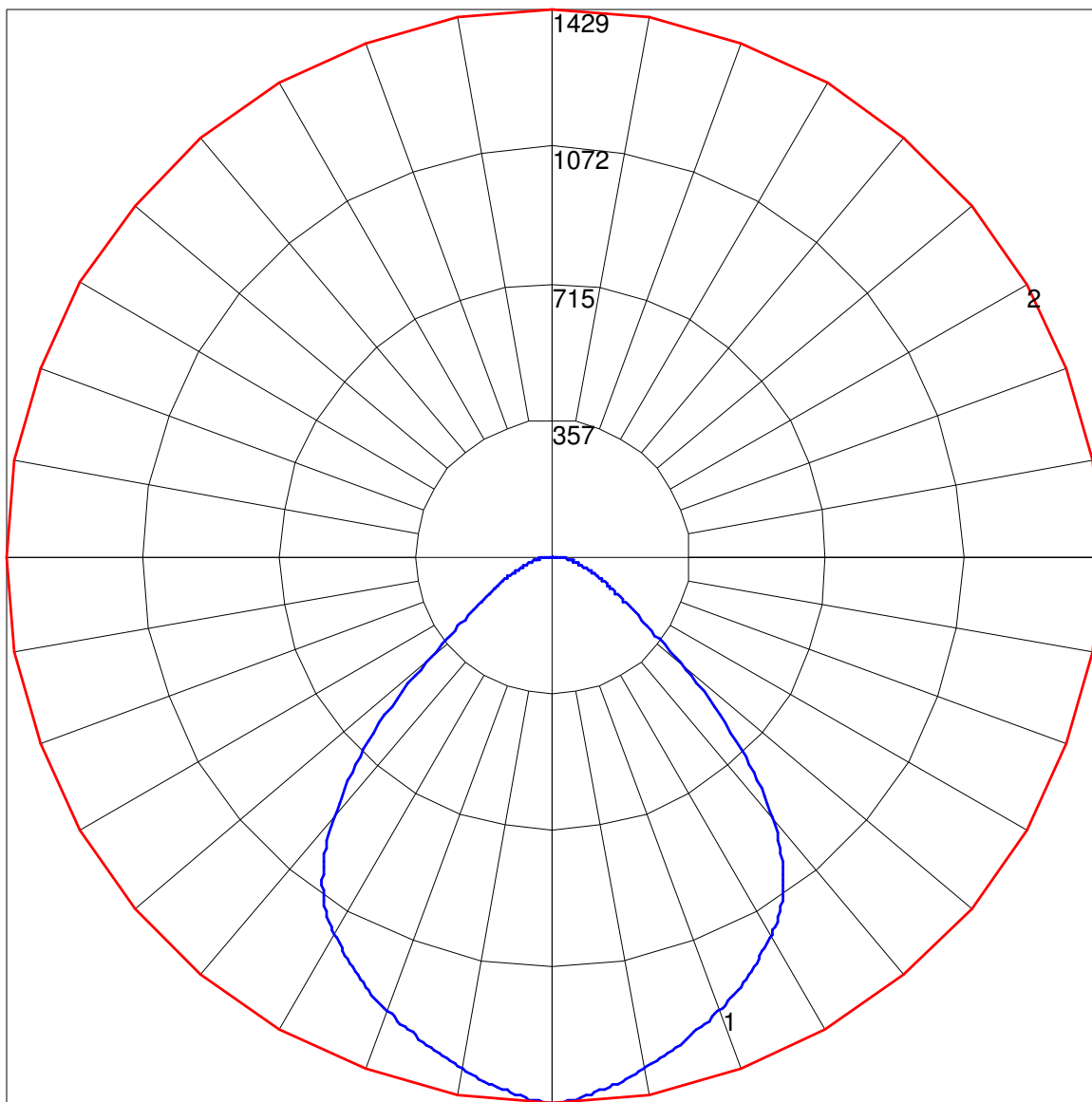
4H	2H	21.2	22.3	21.6	22.7	23.0	21.2	22.3	21.6	22.7	23.0
	3H	22.4	23.4	22.9	23.8	24.2	22.4	23.4	22.9	23.8	24.2
	4H	22.9	23.8	23.4	24.2	24.6	22.9	23.8	23.4	24.2	24.6
	6H	23.3	24.1	23.8	24.5	25.0	23.3	24.1	23.8	24.5	25.0
	8H	23.4	24.1	23.9	24.6	25.0	23.4	24.1	23.9	24.6	25.0
	12H	23.5	24.1	24.0	24.6	25.1	23.5	24.1	24.0	24.6	25.1

8H	4H	23.1	23.8	23.6	24.2	24.7	23.1	23.8	23.6	24.2	24.7
	6H	23.6	24.1	24.1	24.6	25.1	23.6	24.1	24.1	24.6	25.1
	8H	23.7	24.2	24.3	24.8	25.2	23.7	24.2	24.3	24.8	25.2
	12H	23.9	24.3	24.4	24.8	25.4	23.9	24.3	24.4	24.8	25.4

12H	4H	23.1	23.7	23.6	24.2	24.6	23.1	23.7	23.6	24.2	24.6
	6H	23.6	24.1	24.1	24.6	25.1	23.6	24.1	24.1	24.6	25.1
	8H	23.8	24.2	24.3	24.7	25.3	23.8	24.2	24.3	24.7	25.3

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 1429.484 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.)