



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L40-935-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-L40-935-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	3603
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	44.1
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	83722	83722	83722
55	41337	41337	41337
65	28001	28001	28001
75	20824	20824	20824
85	14421	14421	14421

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CANDELA TABULATION

	<u>0</u>
0.0	1907.563
0.5	1905.931
1.0	1904.299
1.5	1902.667
2.0	1899.404
2.5	1896.140
3.0	1891.245
3.5	1887.981
4.0	1883.086
4.5	1878.190
5.0	1873.295
5.5	1868.400
6.0	1863.504
6.5	1858.609
7.0	1853.713
7.5	1847.186
8.0	1842.291
8.5	1837.396
9.0	1830.868
9.5	1824.341
10.0	1819.446
10.5	1812.919
11.0	1806.392
11.5	1801.496
12.0	1794.969
12.5	1788.442
13.0	1781.915
13.5	1775.388
14.0	1768.860
14.5	1762.333
15.0	1754.174
15.5	1747.647
16.0	1741.120
16.5	1734.593
17.0	1726.434
17.5	1719.907
18.0	1715.011
18.5	1708.484
19.0	1701.957
19.5	1695.430
20.0	1688.903
20.5	1684.007
21.0	1677.480
21.5	1670.953
22.0	1662.794
22.5	1654.635
23.0	1648.108
23.5	1638.317
24.0	1630.648
24.5	1621.999
25.0	1613.188
25.5	1604.376
26.0	1595.564
26.5	1586.426

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CANDELA TABULATION - (Cont.)

27.0	1577.451
27.5	1568.477
28.0	1559.502
28.5	1550.690
29.0	1542.205
29.5	1533.556
30.0	1524.255
30.5	1514.954
31.0	1505.163
31.5	1495.046
32.0	1483.950
32.5	1472.201
33.0	1460.126
33.5	1447.071
34.0	1433.038
34.5	1418.026
35.0	1402.360
35.5	1385.390
36.0	1367.766
36.5	1349.164
37.0	1329.419
37.5	1309.185
38.0	1287.972
38.5	1265.453
39.0	1242.119
39.5	1217.642
40.0	1192.675
40.5	1166.567
41.0	1140.948
41.5	1114.186
42.0	1086.935
42.5	1058.542
43.0	1029.660
43.5	999.798
44.0	969.610
44.5	938.606
45.0	906.949
45.5	874.313
46.0	840.698
46.5	806.757
47.0	772.489
47.5	738.548
48.0	704.770
48.5	671.318
49.0	639.172
49.5	607.352
50.0	577.654
50.5	548.771
51.0	522.010
51.5	496.880
52.0	473.382
52.5	451.516
53.0	430.956
53.5	411.864
54.0	394.567
54.5	378.249

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CANDELA TABULATION - (Cont.)

55.0	363.236
55.5	349.366
56.0	336.475
56.5	324.400
57.0	312.651
57.5	301.718
58.0	291.438
58.5	281.484
59.0	272.346
59.5	263.534
60.0	254.722
60.5	246.400
61.0	238.241
61.5	230.409
62.0	222.739
62.5	215.396
63.0	208.216
63.5	201.200
64.0	194.346
64.5	187.819
65.0	181.292
65.5	175.091
66.0	168.890
66.5	162.853
67.0	156.978
67.5	151.430
68.0	145.719
68.5	140.497
69.0	135.112
69.5	130.054
70.0	124.995
70.5	120.263
71.0	115.694
71.5	111.125
72.0	106.719
72.5	102.640
73.0	98.397
73.5	94.317
74.0	90.401
74.5	86.485
75.0	82.569
75.5	78.979
76.0	75.226
76.5	71.799
77.0	68.209
77.5	64.782
78.0	61.355
78.5	58.092
79.0	54.828
79.5	51.565
80.0	48.464
80.5	45.364
81.0	42.263
81.5	39.163
82.0	36.226
82.5	33.289

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CANDELA TABULATION - (Cont.)

83.0	30.351
83.5	27.577
84.0	24.640
84.5	22.029
85.0	19.255
85.5	16.644
86.0	14.033
86.5	11.586
87.0	9.301
87.5	7.343
88.0	5.711
88.5	4.243
89.0	3.100
89.5	2.121
90.0	1.305
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
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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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151.0	0.000
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152.0	0.000
152.5	0.000
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153.5	0.000
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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	672.43	N.A.	18.70
0-30	1415.82	N.A.	39.30
0-40	2283.01	N.A.	63.40
0-60	3310.12	N.A.	91.90
0-80	3580.58	N.A.	99.40
0-90	3603.37	N.A.	100.00
10-90	3426.28	N.A.	95.10
20-40	1610.58	N.A.	44.70
20-50	2298.68	N.A.	63.80
40-70	1209.02	N.A.	33.60
60-80	270.46	N.A.	7.50
70-80	88.56	N.A.	2.50
80-90	22.79	N.A.	0.60
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3603.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	177.10
10-20	495.33
20-30	743.39
30-40	867.18
40-50	688.10
50-60	339.02
60-70	181.90
70-80	88.56
80-90	22.79
90-100	0.04
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

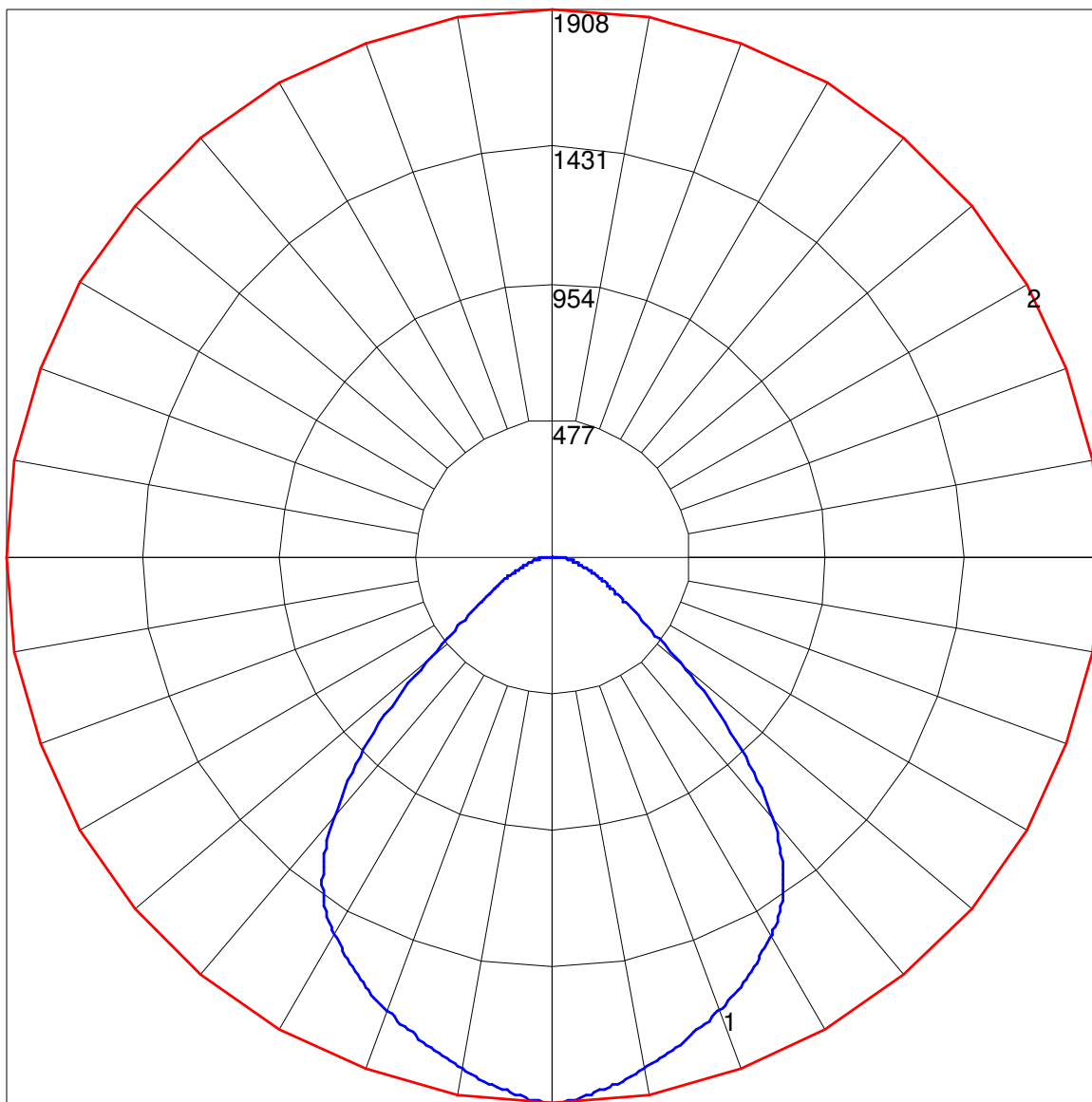
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	21.8	23.2	22.2	23.5	23.8	21.8	23.2	22.2	23.5	23.8
	3H	22.9	24.1	23.3	24.4	24.8	22.9	24.1	23.3	24.4	24.8
	4H	23.3	24.4	23.7	24.8	25.1	23.3	24.4	23.7	24.8	25.1
	6H	23.5	24.6	23.9	25.0	25.4	23.5	24.6	23.9	25.0	25.4
	8H	23.6	24.6	24.0	25.0	25.4	23.6	24.6	24.0	25.0	25.4
	12H	23.7	24.6	24.1	25.0	25.4	23.7	24.6	24.1	25.0	25.4
4H	2H	22.2	23.3	22.6	23.7	24.0	22.2	23.3	22.6	23.7	24.0
	3H	23.4	24.4	23.8	24.8	25.2	23.4	24.4	23.8	24.8	25.2
	4H	23.9	24.8	24.4	25.2	25.6	23.9	24.8	24.4	25.2	25.6
	6H	24.3	25.1	24.8	25.5	26.0	24.3	25.1	24.8	25.5	26.0
	8H	24.4	25.1	24.9	25.6	26.0	24.4	25.1	24.9	25.6	26.0
	12H	24.5	25.1	25.0	25.6	26.1	24.5	25.1	25.0	25.6	26.1
8H	4H	24.1	24.8	24.6	25.2	25.7	24.1	24.8	24.6	25.2	25.7
	6H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
	8H	24.7	25.2	25.3	25.8	26.2	24.7	25.2	25.3	25.8	26.2
	12H	24.9	25.3	25.4	25.8	26.4	24.9	25.3	25.4	25.8	26.4
12H	4H	24.1	24.7	24.6	25.2	25.6	24.1	24.7	24.6	25.2	25.6
	6H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
	8H	24.8	25.2	25.3	25.7	26.3	24.8	25.2	25.3	25.7	26.3

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1907.563 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.)