



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM 12326812.29  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 02/11/2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass  
 [MORE] s patterned lens enclosure  
 [LAMP] One white LED  
 [BALLAST] Philips XI025C070V054DSM5  
 [OTHER] 25 C, 119.956 V, 0.190022 A, 22.7 W, 0.995864 PF, 59.9698 Hz  
 [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	2827
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	65693	65693	65693
55	32435	32435	32435
65	21971	21971	21971
75	16340	16340	16340
85	11316	11316	11316

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## CANDELA TABULATION

	<u>0</u>
0.0	1496.776
0.5	1495.496
1.0	1494.215
1.5	1492.935
2.0	1490.374
2.5	1487.813
3.0	1483.972
3.5	1481.411
4.0	1477.570
4.5	1473.729
5.0	1469.888
5.5	1466.047
6.0	1462.205
6.5	1458.364
7.0	1454.523
7.5	1449.402
8.0	1445.560
8.5	1441.719
9.0	1436.598
9.5	1431.476
10.0	1427.635
10.5	1422.513
11.0	1417.392
11.5	1413.551
12.0	1408.429
12.5	1403.307
13.0	1398.186
13.5	1393.064
14.0	1387.943
14.5	1382.821
15.0	1376.419
15.5	1371.298
16.0	1366.176
16.5	1361.055
17.0	1354.653
17.5	1349.531
18.0	1345.690
18.5	1340.568
19.0	1335.447
19.5	1330.325
20.0	1325.204
20.5	1321.363
21.0	1316.241
21.5	1311.119
22.0	1304.717
22.5	1298.315
23.0	1293.194
23.5	1285.512
24.0	1279.494
24.5	1272.708
25.0	1265.794
25.5	1258.879
26.0	1251.965
26.5	1244.795

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES****CANDELA TABULATION - (Cont.)**

27.0	1237.753
27.5	1230.711
28.0	1223.669
28.5	1216.755
29.0	1210.097
29.5	1203.311
30.0	1196.012
30.5	1188.714
31.0	1181.032
31.5	1173.093
32.0	1164.387
32.5	1155.168
33.0	1145.693
33.5	1135.450
34.0	1124.439
34.5	1112.659
35.0	1100.367
35.5	1087.051
36.0	1073.223
36.5	1058.626
37.0	1043.134
37.5	1027.257
38.0	1010.612
38.5	992.942
39.0	974.633
39.5	955.427
40.0	935.837
40.5	915.351
41.0	895.249
41.5	874.250
42.0	852.868
42.5	830.589
43.0	807.926
43.5	784.495
44.0	760.808
44.5	736.480
45.0	711.641
45.5	686.033
46.0	659.657
46.5	633.025
47.0	606.137
47.5	579.505
48.0	553.000
48.5	526.752
49.0	501.529
49.5	476.561
50.0	453.258
50.5	430.595
51.0	409.597
51.5	389.879
52.0	371.441
52.5	354.284
53.0	338.151
53.5	323.170
54.0	309.598
54.5	296.794

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES****CANDELA TABULATION - (Cont.)**

55.0	285.015
55.5	274.132
56.0	264.016
56.5	254.542
57.0	245.323
57.5	236.744
58.0	228.678
58.5	220.867
59.0	213.697
59.5	206.783
60.0	199.869
60.5	193.339
61.0	186.937
61.5	180.791
62.0	174.773
62.5	169.011
63.0	163.378
63.5	157.872
64.0	152.494
64.5	147.373
65.0	142.251
65.5	137.386
66.0	132.520
66.5	127.783
67.0	123.174
67.5	118.820
68.0	114.339
68.5	110.242
69.0	106.016
69.5	102.047
70.0	98.078
70.5	94.365
71.0	90.780
71.5	87.195
72.0	83.738
72.5	80.537
73.0	77.208
73.5	74.007
74.0	70.934
74.5	67.861
75.0	64.788
75.5	61.971
76.0	59.026
76.5	56.337
77.0	53.520
77.5	50.831
78.0	48.143
78.5	45.582
79.0	43.021
79.5	40.460
80.0	38.028
80.5	35.595
81.0	33.162
81.5	30.729
82.0	28.425
82.5	26.120

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES****CANDELA TABULATION - (Cont.)**

83.0	23.815
83.5	21.639
84.0	19.334
84.5	17.285
85.0	15.109
85.5	13.060
86.0	11.011
86.5	9.091
87.0	7.298
87.5	5.762
88.0	4.481
88.5	3.329
89.0	2.433
89.5	1.665
90.0	1.024
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES****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
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES****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
158.0	0.000
158.5	0.000
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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L30-840-DIM-UNV-L-W-OF-WH-WET-CC\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	527.62	N.A.	18.70
0-30	1110.93	N.A.	39.30
0-40	1791.37	N.A.	63.40
0-60	2597.3	N.A.	91.90
0-80	2809.52	N.A.	99.40
0-90	2827.4	N.A.	100.00
10-90	2688.44	N.A.	95.10
20-40	1263.74	N.A.	44.70
20-50	1803.66	N.A.	63.80
40-70	948.66	N.A.	33.60
60-80	212.22	N.A.	7.50
70-80	69.49	N.A.	2.50
80-90	17.89	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	2827.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	138.96
10-20	388.67
20-30	583.31
30-40	680.44
40-50	539.92
50-60	266.01
60-70	142.73
70-80	69.49
80-90	17.89
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

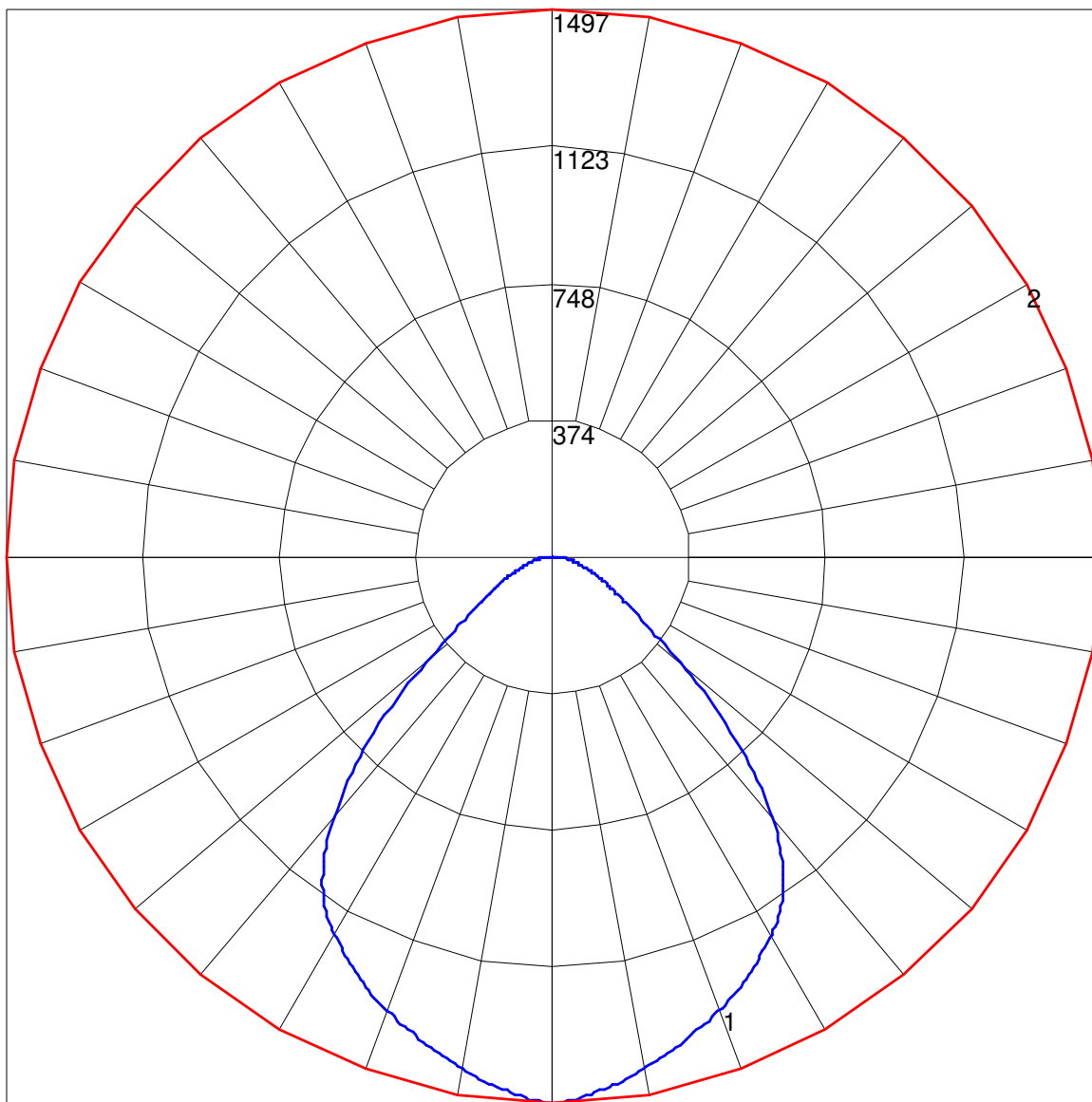
X=2H	Y=2H	20.9	22.3	21.3	22.6	22.9	20.9	22.3	21.3	22.6	22.9
	3H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
	4H	22.4	23.5	22.8	23.9	24.2	22.4	23.5	22.8	23.9	24.2
	6H	22.6	23.7	23.0	24.1	24.5	22.6	23.7	23.0	24.1	24.5
	8H	22.7	23.7	23.1	24.1	24.5	22.7	23.7	23.1	24.1	24.5
	12H	22.8	23.7	23.2	24.1	24.5	22.8	23.7	23.2	24.1	24.5

### UGR Viewed Endwise

4H	2H	21.3	22.4	21.7	22.7	23.1	21.3	22.4	21.7	22.7	23.1
	3H	22.5	23.5	22.9	23.9	24.3	22.5	23.5	22.9	23.9	24.3
	4H	23.0	23.9	23.5	24.3	24.7	23.0	23.9	23.5	24.3	24.7
	6H	23.4	24.1	23.9	24.6	25.1	23.4	24.1	23.9	24.6	25.1
	8H	23.5	24.2	24.0	24.7	25.1	23.5	24.2	24.0	24.7	25.1
	12H	23.6	24.2	24.1	24.7	25.2	23.6	24.2	24.1	24.7	25.2
8H	4H	23.2	23.9	23.7	24.3	24.8	23.2	23.9	23.7	24.3	24.8
	6H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.2
	8H	23.8	24.3	24.4	24.9	25.3	23.8	24.3	24.4	24.9	25.3
	12H	24.0	24.4	24.5	24.9	25.5	24.0	24.4	24.5	24.9	25.5
12H	4H	23.2	23.8	23.7	24.3	24.7	23.2	23.8	23.7	24.3	24.7
	6H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.2
	8H	23.9	24.3	24.4	24.8	25.4	23.9	24.3	24.4	24.8	25.4

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 1496.776 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.)