



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-WH-DIM-UNV\_17W\_2700K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 14879730.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 2023-07-21  
 [TESTDATE] 7/10/2023  
 [MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6RCD-LS-9CS-WH-DIM-UNV\_17W\_2700K  
 [LUMINAIRE] 6 INCH DIAMETER LED DOWNLIGHT  
 [MORE] WHITE TRIM WITH FLAT DIFFUSED LENS  
 [LAMP] White LEDs  
 [BALLAST] 0-10V DIMMING DRIVER

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	17.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	30515	30515	30515
55	25471	25471	25471
65	18625	18625	18625
75	8875	8875	8875
85	5496	5496	5496

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CANDELA TABULATION

	<u>0</u>
0.0	692.543
0.5	692.682
1.0	692.543
1.5	692.612
2.0	692.264
2.5	692.055
3.0	691.638
3.5	691.011
4.0	690.315
4.5	689.549
5.0	688.504
5.5	687.390
6.0	686.137
6.5	685.023
7.0	683.909
7.5	682.864
8.0	681.820
8.5	680.845
9.0	679.661
9.5	678.617
10.0	677.294
10.5	675.901
11.0	674.300
11.5	672.489
12.0	670.679
12.5	668.590
13.0	666.501
13.5	664.342
14.0	662.254
14.5	659.886
15.0	657.728
15.5	655.151
16.0	652.853
16.5	650.208
17.0	647.840
17.5	645.194
18.0	642.548
18.5	639.693
19.0	636.978
19.5	633.984
20.0	630.990
20.5	627.995
21.0	624.792
21.5	621.589
22.0	618.038
22.5	614.487
23.0	610.588
23.5	606.549
24.0	602.441
24.5	598.472
25.0	594.294
25.5	590.395
26.0	586.496
26.5	582.666

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**CANDELA TABULATION - (Cont.)**

27.0	578.976
27.5	575.146
28.0	571.456
28.5	567.626
29.0	563.727
29.5	559.549
30.0	555.301
30.5	550.775
31.0	546.180
31.5	541.167
32.0	536.014
32.5	530.722
33.0	525.221
33.5	519.651
34.0	514.011
34.5	508.301
35.0	502.522
35.5	496.951
36.0	491.381
36.5	486.159
37.0	483.164
37.5	478.708
38.0	473.556
38.5	468.473
39.0	462.972
39.5	457.610
40.0	452.179
40.5	446.748
41.0	441.177
41.5	435.607
42.0	429.828
42.5	423.979
43.0	417.921
43.5	411.933
44.0	405.875
44.5	399.956
45.0	393.968
45.5	388.050
46.0	382.061
46.5	376.143
47.0	369.946
47.5	363.888
48.0	357.691
48.5	351.563
49.0	345.227
49.5	338.891
50.0	332.485
50.5	326.079
51.0	319.533
51.5	313.058
52.0	306.443
52.5	299.758
53.0	293.074
53.5	286.389
54.0	279.774
54.5	273.229

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CANDELA TABULATION - (Cont.)

55.0	266.754
55.5	260.348
56.0	253.942
56.5	247.605
57.0	241.408
57.5	235.072
58.0	228.805
58.5	222.538
59.0	216.341
59.5	210.005
60.0	203.738
60.5	197.471
61.0	191.274
61.5	185.008
62.0	178.811
62.5	172.683
63.0	166.625
63.5	160.707
64.0	154.927
64.5	149.357
65.0	143.717
65.5	138.146
66.0	132.506
66.5	126.797
67.0	121.017
67.5	115.168
68.0	109.250
68.5	103.331
69.0	97.413
69.5	91.564
70.0	85.854
70.5	80.284
71.0	74.992
71.5	69.978
72.0	65.167
72.5	60.641
73.0	56.373
73.5	52.369
74.0	48.658
74.5	45.190
75.0	41.938
75.5	38.895
76.0	36.055
76.5	33.423
77.0	30.972
77.5	28.716
78.0	26.613
78.5	24.684
79.0	22.922
79.5	21.342
80.0	19.949
80.5	18.689
81.0	17.582
81.5	16.558
82.0	15.458
82.5	14.288

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CANDELA TABULATION - (Cont.)

83.0	13.188
83.5	12.102
84.0	10.967
84.5	9.839
85.0	8.746
85.5	7.604
86.0	6.469
86.5	5.410
87.0	4.345
87.5	3.300
88.0	2.430
88.5	1.713
89.0	1.010
89.5	0.453
90.0	0.000
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
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
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



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	250.73	N.A.	15.80
0-30	524.76	N.A.	33.20
0-40	839.93	N.A.	53.10
0-60	1382.17	N.A.	87.40
0-80	1572.33	N.A.	99.40
0-90	1582.13	N.A.	100.00
10-90	1516.79	N.A.	95.90
20-40	589.20	N.A.	37.20
20-50	892.70	N.A.	56.40
40-70	684.42	N.A.	43.30
60-80	190.16	N.A.	12.00
70-80	47.98	N.A.	3.00
80-90	9.80	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1582.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.34
10-20	185.40
20-30	274.03
30-40	315.17
40-50	303.50
50-60	238.74
60-70	142.18
70-80	47.98
80-90	9.80
90-100	0.00
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

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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

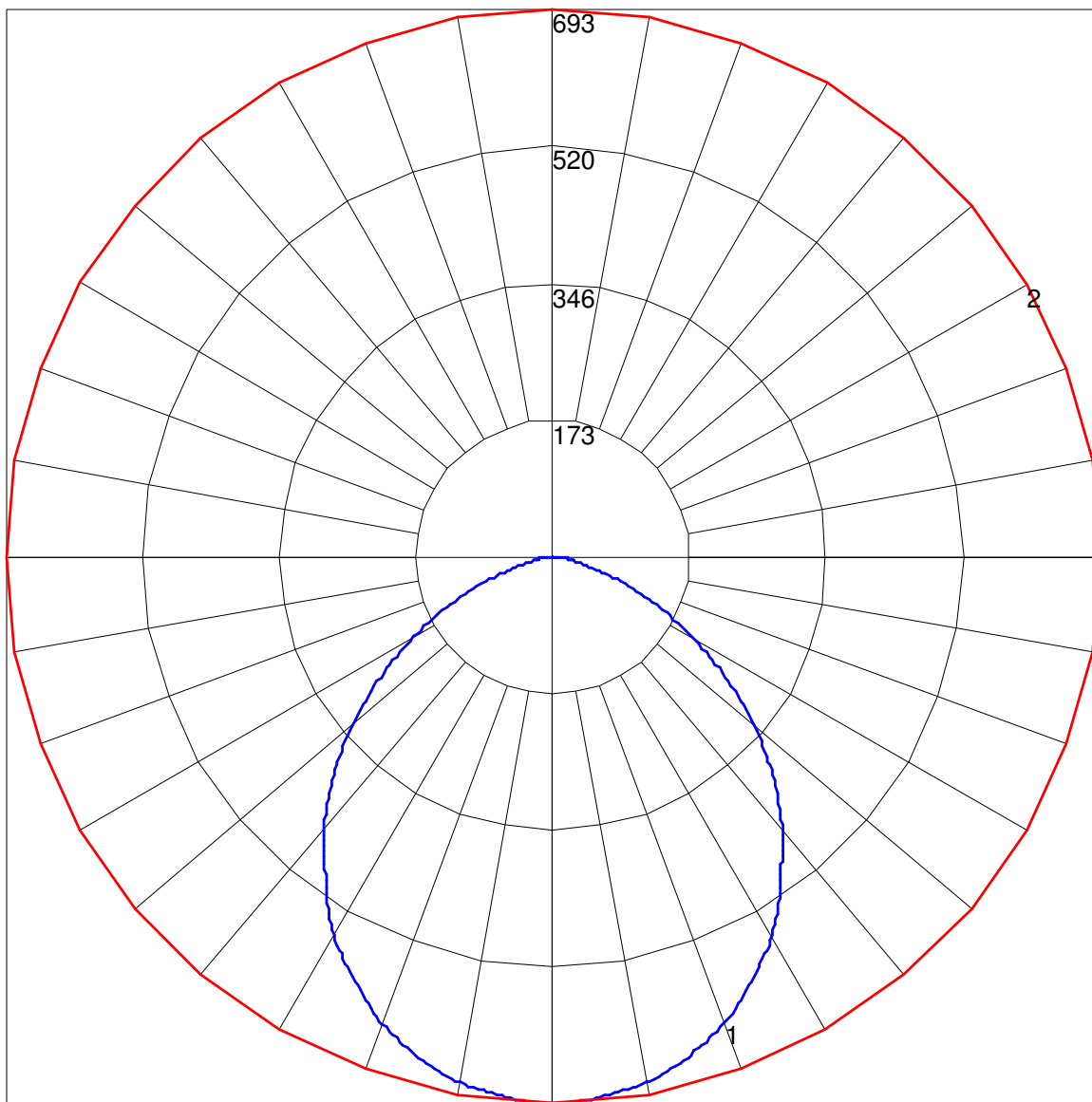
X=2H	Y=2H	22.1	23.6	22.5	24.0	24.3	22.1	23.6	22.5	24.0	24.3
	3H	23.1	24.5	23.5	24.8	25.2	23.1	24.5	23.5	24.8	25.2
	4H	23.3	24.5	23.7	24.9	25.3	23.3	24.5	23.7	24.9	25.3
	6H	23.3	24.5	23.7	24.9	25.3	23.3	24.5	23.7	24.9	25.3
	8H	23.3	24.4	23.8	24.8	25.2	23.3	24.4	23.8	24.8	25.2
	12H	23.3	24.4	23.8	24.8	25.2	23.3	24.4	23.8	24.8	25.2

### UGR Viewed Endwise

4H	2H	22.5	23.8	22.9	24.1	24.5	22.5	23.8	22.9	24.1	24.5
	3H	23.6	24.7	24.0	25.1	25.5	23.6	24.7	24.0	25.1	25.5
	4H	23.8	24.8	24.3	25.2	25.6	23.8	24.8	24.3	25.2	25.6
	6H	23.9	24.8	24.4	25.2	25.7	23.9	24.8	24.4	25.2	25.7
	8H	23.9	24.7	24.4	25.2	25.6	23.9	24.7	24.4	25.2	25.6
	12H	24.0	24.6	24.4	25.1	25.6	24.0	24.6	24.4	25.1	25.6
8H	4H	23.9	24.6	24.3	25.1	25.5	23.9	24.6	24.3	25.1	25.5
	6H	24.0	24.6	24.5	25.1	25.6	24.0	24.6	24.5	25.1	25.6
	8H	24.1	24.6	24.6	25.1	25.6	24.1	24.6	24.6	25.1	25.6
	12H	24.1	24.6	24.6	25.1	25.6	24.1	24.6	24.6	25.1	25.6
12H	4H	23.8	24.5	24.3	25.0	25.5	23.8	24.5	24.3	25.0	25.5
	6H	24.0	24.6	24.5	25.0	25.6	24.0	24.6	24.5	25.0	25.6
	8H	24.1	24.6	24.6	25.0	25.6	24.1	24.6	24.6	25.0	25.6

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 692.682 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)