



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-WH-DIM-UNV\_17W\_5000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 14879730.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-07-21  
[TEST DATE] 7/10/2023  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6RCD-LS-9CS-WH-DIM-UNV\_17W\_5000K  
[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	1769
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	34122	34122	34122
55	28482	28482	28482
65	20826	20826	20826
75	9924	9924	9924
85	6145	6145	6145

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CANDELA TABULATION

	<u>0</u>
0.0	774.405
0.5	774.560
1.0	774.405
1.5	774.483
2.0	774.093
2.5	773.860
3.0	773.393
3.5	772.692
4.0	771.913
4.5	771.057
5.0	769.889
5.5	768.643
6.0	767.242
6.5	765.996
7.0	764.750
7.5	763.582
8.0	762.414
8.5	761.324
9.0	760.000
9.5	758.833
10.0	757.353
10.5	755.796
11.0	754.005
11.5	751.981
12.0	749.956
12.5	747.621
13.0	745.285
13.5	742.871
14.0	740.535
14.5	737.888
15.0	735.474
15.5	732.593
16.0	730.024
16.5	727.065
17.0	724.418
17.5	721.459
18.0	718.501
18.5	715.308
19.0	712.272
19.5	708.924
20.0	705.576
20.5	702.228
21.0	698.646
21.5	695.064
22.0	691.094
22.5	687.123
23.0	682.762
23.5	678.246
24.0	673.653
24.5	669.215
25.0	664.543
25.5	660.183
26.0	655.823
26.5	651.540

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CANDELA TABULATION - (Cont.)

27.0	647.414
27.5	643.131
28.0	639.005
28.5	634.722
29.0	630.362
29.5	625.690
30.0	620.941
30.5	615.880
31.0	610.741
31.5	605.135
32.0	599.373
32.5	593.456
33.0	587.305
33.5	581.076
34.0	574.769
34.5	568.385
35.0	561.922
35.5	555.693
36.0	549.465
36.5	543.625
37.0	540.277
37.5	535.294
38.0	529.532
38.5	523.848
39.0	517.697
39.5	511.702
40.0	505.629
40.5	499.556
41.0	493.327
41.5	487.098
42.0	480.635
42.5	474.095
43.0	467.321
43.5	460.625
44.0	453.851
44.5	447.233
45.0	440.537
45.5	433.919
46.0	427.223
46.5	420.605
47.0	413.675
47.5	406.901
48.0	399.972
48.5	393.120
49.0	386.034
49.5	378.949
50.0	371.786
50.5	364.623
51.0	357.304
51.5	350.063
52.0	342.666
52.5	335.191
53.0	327.717
53.5	320.242
54.0	312.845
54.5	305.526

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CANDELA TABULATION - (Cont.)

55.0	298.285
55.5	291.122
56.0	283.959
56.5	276.873
57.0	269.944
57.5	262.858
58.0	255.851
58.5	248.844
59.0	241.914
59.5	234.829
60.0	227.821
60.5	220.814
61.0	213.884
61.5	206.876
62.0	199.947
62.5	193.095
63.0	186.321
63.5	179.703
64.0	173.241
64.5	167.012
65.0	160.705
65.5	154.476
66.0	148.169
66.5	141.785
67.0	135.322
67.5	128.782
68.0	122.164
68.5	115.546
69.0	108.927
69.5	102.387
70.0	96.003
70.5	89.774
71.0	83.856
71.5	78.250
72.0	72.870
72.5	67.809
73.0	63.036
73.5	58.559
74.0	54.409
74.5	50.532
75.0	46.896
75.5	43.493
76.0	40.316
76.5	37.373
77.0	34.633
77.5	32.110
78.0	29.758
78.5	27.602
79.0	25.632
79.5	23.864
80.0	22.307
80.5	20.898
81.0	19.660
81.5	18.515
82.0	17.285
82.5	15.977

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CANDELA TABULATION - (Cont.)

83.0	14.747
83.5	13.532
84.0	12.263
84.5	11.002
85.0	9.779
85.5	8.502
86.0	7.233
86.5	6.050
87.0	4.859
87.5	3.691
88.0	2.717
88.5	1.915
89.0	1.129
89.5	0.506
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
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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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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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6RCD-LS-9CS-WH-DIM-UNV\_17W\_5000K.IES****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	280.37	N.A.	15.80
0-30	586.79	N.A.	33.20
0-40	939.22	N.A.	53.10
0-60	1545.55	N.A.	87.40
0-80	1758.19	N.A.	99.40
0-90	1769.14	N.A.	100.00
10-90	1696.08	N.A.	95.90
20-40	658.85	N.A.	37.20
20-50	998.23	N.A.	56.40
40-70	765.32	N.A.	43.30
60-80	212.63	N.A.	12.00
70-80	53.65	N.A.	3.00
80-90	10.95	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	1769.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.06
10-20	207.31
20-30	306.42
30-40	352.42
40-50	339.38
50-60	266.96
60-70	158.99
70-80	53.65
80-90	10.95
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	22.5	24.0	22.9	24.4	24.7	UGR Viewed Endwise	22.5	24.0	22.9	24.4	24.7
	3H	23.5	24.9	23.9	25.2	25.6		23.5	24.9	23.9	25.2	25.6
	4H	23.7	24.9	24.1	25.3	25.7		23.7	24.9	24.1	25.3	25.7
	6H	23.7	24.9	24.1	25.3	25.7		23.7	24.9	24.1	25.3	25.7
	8H	23.7	24.8	24.2	25.2	25.6		23.7	24.8	24.2	25.2	25.6
	12H	23.7	24.8	24.2	25.2	25.6		23.7	24.8	24.2	25.2	25.6

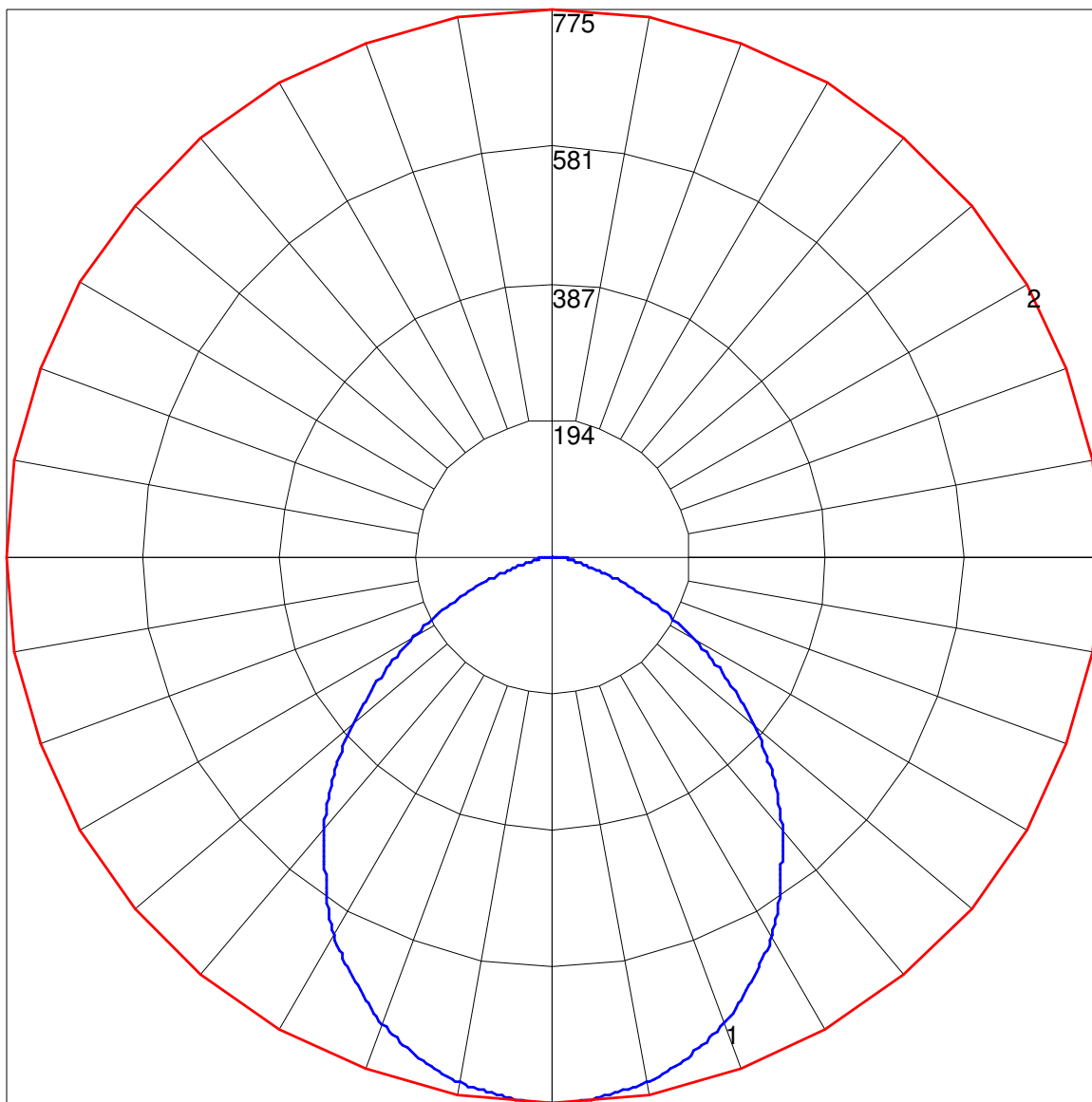
4H	2H	22.9	24.2	23.3	24.5	24.9	22.9	24.2	23.3	24.5	24.9
	3H	24.0	25.1	24.4	25.5	25.9	24.0	25.1	24.4	25.5	25.9
	4H	24.2	25.2	24.7	25.6	26.0	24.2	25.2	24.7	25.6	26.0
	6H	24.3	25.2	24.8	25.6	26.1	24.3	25.2	24.8	25.6	26.1
	8H	24.3	25.1	24.8	25.6	26.0	24.3	25.1	24.8	25.6	26.0
	12H	24.4	25.0	24.8	25.5	26.0	24.4	25.0	24.8	25.5	26.0

8H	4H	24.3	25.0	24.7	25.5	25.9	24.3	25.0	24.7	25.5	25.9
	6H	24.4	25.0	24.9	25.5	26.0	24.4	25.0	24.9	25.5	26.0
	8H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	12H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0

12H	4H	24.2	24.9	24.7	25.4	25.9	24.2	24.9	24.7	25.4	25.9
	6H	24.4	25.0	24.9	25.4	26.0	24.4	25.0	24.9	25.4	26.0
	8H	24.5	25.0	25.0	25.4	26.0	24.5	25.0	25.0	25.4	26.0

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 774.56 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.)