

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-22W-2700K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15006535.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 17 NOV, 2023

[TEST DATE] 10/18/2023

[MANUFAC] H E Williams Inc

[LUMCAT] 6RCD-LS-9CS-SS-DIM-UNV-22W-2700k

[LUMINAIRE] Round housing with semi-specular reflector and frosted lens

[LAMP] White LEDs

[BALLAST] LED Driver

[OTHER] 24.7 C, 119.991 V, 0.1494 A, 17.765 W, 0.99098 PF, 59.971 Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[OTHER] The reported results were measured in a facility that meets th

[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de

[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1788
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	18.94
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.00
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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28501	28501	28501
55	13343	13343	13343
65	1750	1750	1750
75	352	352	352
85	290	290	290

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CANDELA TABULATION

	<u>0</u>
0.0	1458.354
0.5	1458.354
1.0	1457.429
1.5	1456.505
2.0	1453.730
2.5	1451.881
3.0	1450.031
3.5	1446.332
4.0	1443.558
4.5	1438.934
5.0	1435.235
5.5	1430.611
6.0	1425.063
6.5	1419.514
7.0	1413.965
7.5	1407.492
8.0	1401.019
8.5	1394.545
9.0	1388.072
9.5	1380.674
10.0	1373.276
10.5	1364.953
11.0	1356.630
11.5	1348.307
12.0	1339.060
12.5	1328.887
13.0	1319.639
13.5	1309.467
14.0	1298.370
14.5	1287.273
15.0	1275.251
15.5	1263.229
16.0	1251.207
16.5	1238.260
17.0	1225.313
17.5	1211.442
18.0	1197.571
18.5	1182.774
19.0	1167.978
19.5	1154.107
20.0	1138.386
20.5	1122.665
21.0	1107.868
21.5	1093.072
22.0	1078.276
22.5	1062.555
23.0	1047.759
23.5	1033.887
24.0	1019.091
24.5	1003.370
25.0	987.649
25.5	971.928
26.0	956.207
26.5	940.486

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CANDELA TABULATION - (Cont.)

27.0	924.395
27.5	908.027
28.0	891.658
28.5	875.197
29.0	858.829
29.5	842.738
30.0	826.647
30.5	810.279
31.0	793.818
31.5	777.542
32.0	760.804
32.5	744.621
33.0	728.530
33.5	712.531
34.0	695.701
34.5	679.610
35.0	663.334
35.5	647.243
36.0	630.967
36.5	614.969
37.0	598.878
37.5	582.972
38.0	567.158
38.5	552.455
39.0	538.213
39.5	523.324
40.0	508.343
40.5	493.362
41.0	478.566
41.5	464.047
42.0	449.713
42.5	435.842
43.0	422.063
43.5	408.191
44.0	394.597
44.5	381.188
45.0	367.964
45.5	354.925
46.0	342.163
46.5	329.679
47.0	317.194
47.5	304.803
48.0	292.781
48.5	280.666
49.0	268.737
49.5	257.085
50.0	245.618
50.5	234.335
51.0	223.146
51.5	212.049
52.0	201.136
52.5	190.409
53.0	179.959
53.5	169.694
54.0	159.614
54.5	149.534

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CANDELA TABULATION - (Cont.)

55.0	139.732
55.5	130.299
56.0	121.052
56.5	112.082
57.0	103.296
57.5	94.788
58.0	86.558
58.5	78.790
59.0	71.299
59.5	64.271
60.0	57.613
60.5	51.324
61.0	45.498
61.5	40.135
62.0	35.141
62.5	30.610
63.0	26.448
63.5	22.657
64.0	19.235
64.5	16.183
65.0	13.502
65.5	11.190
66.0	9.155
66.5	7.398
67.0	6.011
67.5	4.624
68.0	3.514
68.5	2.867
69.0	2.774
69.5	2.682
70.0	2.589
70.5	2.404
71.0	2.312
71.5	2.219
72.0	2.127
72.5	2.127
73.0	2.034
73.5	1.942
74.0	1.850
74.5	1.757
75.0	1.665
75.5	1.572
76.0	1.572
76.5	1.480
77.0	1.387
77.5	1.295
78.0	1.295
78.5	1.202
79.0	1.110
79.5	1.110
80.0	1.017
80.5	0.925
81.0	0.925
81.5	0.832
82.0	0.740
82.5	0.740

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CANDELA TABULATION - (Cont.)

83.0	0.647
83.5	0.647
84.0	0.555
84.5	0.555
85.0	0.462
85.5	0.370
86.0	0.370
86.5	0.277
87.0	0.277
87.5	0.185
88.0	0.185
88.5	0.092
89.0	0.092
89.5	0.000
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-22W-2700K\_.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
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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
148.0	0.000
148.5	0.000
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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
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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	491.02	N.A.	27.50
0-30	942.65	N.A.	52.70
0-40	1355.92	N.A.	75.80
0-60	1767.49	N.A.	98.80
0-80	1787.84	N.A.	100.00
0-90	1788.35	N.A.	100.00
10-90	1653.38	N.A.	92.50
20-40	864.91	N.A.	48.40
20-50	1149.3	N.A.	64.30
40-70	430.11	N.A.	24.10
60-80	20.35	N.A.	1.10
70-80	1.81	N.A.	0.10
80-90	0.51	N.A.	0.00
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	1788.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.97
10-20	356.04
20-30	451.63
30-40	413.28
40-50	284.39
50-60	127.17
60-70	18.55
70-80	1.81
80-90	0.51
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	111	111	111	111	109	109	109	109	104	104	104	100	100	100	95	95	95	94
1	105	102	100	97	103	100	98	96	97	95	93	93	92	90	90	89	88	86
2	99	94	89	86	97	92	88	85	89	86	83	86	84	81	84	81	79	78
3	93	86	81	76	91	85	80	76	82	78	74	80	76	73	78	75	72	70
4	87	79	73	68	85	78	72	68	76	71	67	74	70	66	72	68	66	64
5	82	73	66	62	80	72	66	61	70	65	61	68	64	60	67	63	60	58
6	77	67	61	56	75	66	60	56	65	60	55	64	59	55	62	58	55	53
7	72	62	56	51	71	62	56	51	60	55	51	59	54	51	58	54	50	49
8	68	58	52	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45
9	64	54	48	44	63	54	48	43	53	47	43	52	47	43	51	46	43	42
10	61	51	44	40	60	50	44	40	49	44	40	49	44	40	48	43	40	39

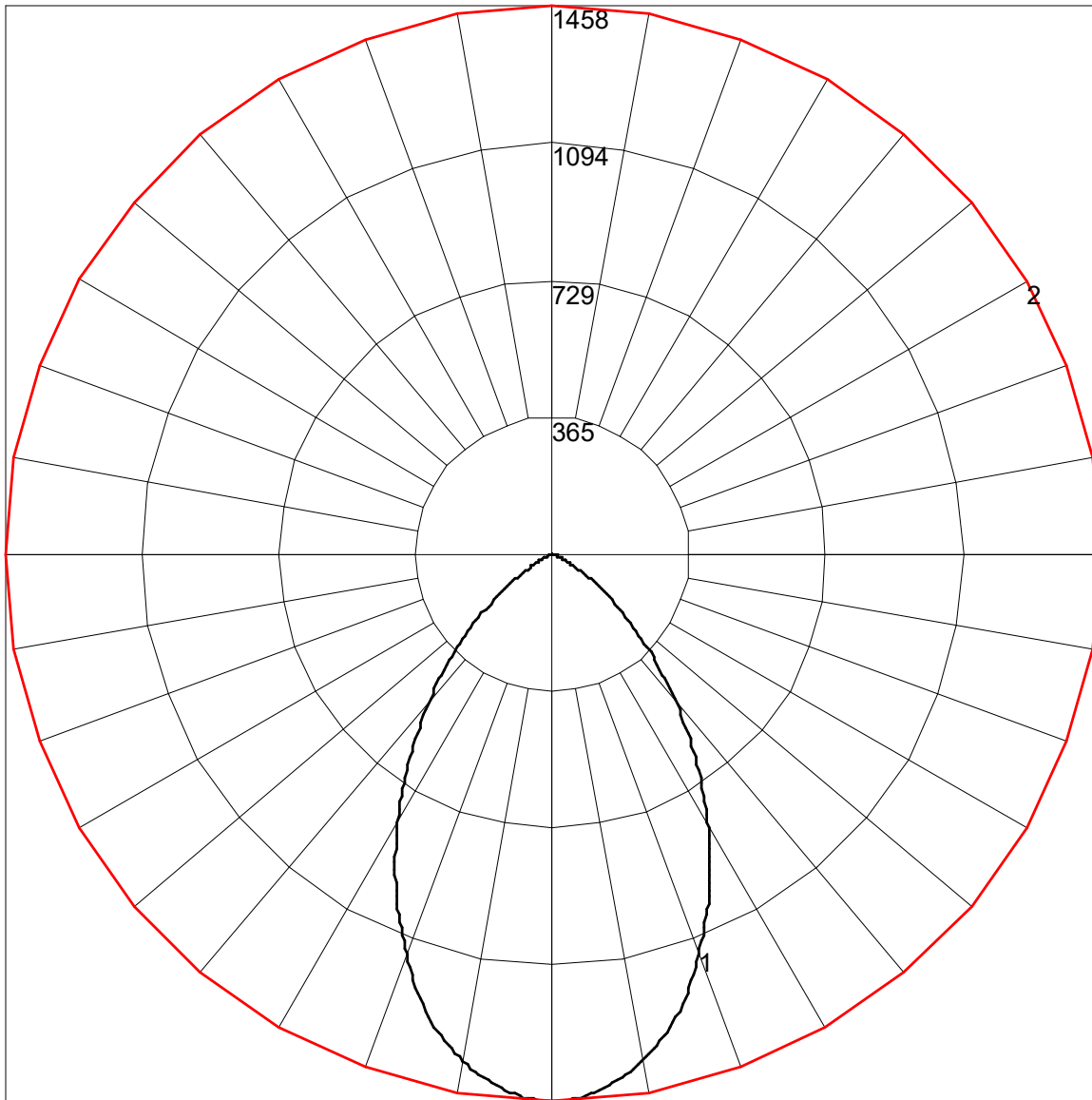
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**UGR TABLE - CORRECTED**

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	15.9	17.1	16.3	17.4	17.7	15.9	17.1	16.3	17.4	17.7
	3H	15.8	16.8	16.1	17.1	17.5	15.8	16.8	16.1	17.1	17.5
	4H	15.7	16.7	16.1	17.0	17.4	15.7	16.7	16.1	17.0	17.4
	6H	15.6	16.5	16.0	16.9	17.3	15.6	16.5	16.0	16.9	17.3
	8H	15.6	16.4	16.0	16.8	17.2	15.6	16.4	16.0	16.8	17.2
	12H	15.5	16.3	15.9	16.7	17.1	15.5	16.3	15.9	16.7	17.1
4H	2H	15.7	16.7	16.1	17.0	17.4	15.7	16.7	16.1	17.0	17.4
	3H	15.6	16.3	16.0	16.8	17.2	15.6	16.3	16.0	16.8	17.2
	4H	15.5	16.2	15.9	16.6	17.0	15.5	16.2	15.9	16.6	17.0
	6H	15.4	16.0	15.9	16.4	16.9	15.4	16.0	15.9	16.4	16.9
	8H	15.3	15.9	15.8	16.3	16.8	15.3	15.9	15.8	16.3	16.8
	12H	15.3	15.7	15.7	16.2	16.7	15.3	15.7	15.7	16.2	16.7
8H	4H	15.3	15.9	15.8	16.3	16.8	15.3	15.9	15.8	16.3	16.8
	6H	15.2	15.7	15.7	16.2	16.6	15.2	15.7	15.7	16.2	16.6
	8H	15.1	15.5	15.7	16.1	16.6	15.1	15.5	15.7	16.1	16.6
	12H	15.1	15.4	15.6	15.9	16.5	15.1	15.4	15.6	15.9	16.5
12H	4H	15.3	15.7	15.7	16.2	16.7	15.3	15.7	15.7	16.2	16.7
	6H	15.2	15.5	15.7	16.0	16.6	15.2	15.5	15.7	16.0	16.6
	8H	15.1	15.4	15.6	15.9	16.5	15.1	15.4	15.6	15.9	16.5

Maximum UGR = 17.7

POLAR GRAPH



Maximum Candela = 1458.354 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)