

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-12W-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-12W-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	985
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	10.63
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	15691	15691	15691
55	7346	7346	7346
65	963	963	963
75	194	194	194
85	160	160	160

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CANDELA TABULATION

	<u>0</u>
0.0	802.895
0.5	802.895
1.0	802.386
1.5	801.877
2.0	800.350
2.5	799.331
3.0	798.313
3.5	796.277
4.0	794.749
4.5	792.203
5.0	790.167
5.5	787.621
6.0	784.567
6.5	781.512
7.0	778.457
7.5	774.893
8.0	771.329
8.5	767.765
9.0	764.201
9.5	760.128
10.0	756.055
10.5	751.473
11.0	746.891
11.5	742.309
12.0	737.218
12.5	731.617
13.0	726.526
13.5	720.926
14.0	714.816
14.5	708.706
15.0	702.088
15.5	695.469
16.0	688.850
16.5	681.723
17.0	674.595
17.5	666.958
18.0	659.321
18.5	651.175
19.0	643.029
19.5	635.392
20.0	626.737
20.5	618.082
21.0	609.936
21.5	601.790
22.0	593.643
22.5	584.988
23.0	576.842
23.5	569.205
24.0	561.059
24.5	552.404
25.0	543.749
25.5	535.094
26.0	526.439
26.5	517.783

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	508.925
<b>27.5</b>	499.913
<b>28.0</b>	490.901
<b>28.5</b>	481.839
<b>29.0</b>	472.827
<b>29.5</b>	463.969
<b>30.0</b>	455.110
<b>30.5</b>	446.098
<b>31.0</b>	437.036
<b>31.5</b>	428.075
<b>32.0</b>	418.860
<b>32.5</b>	409.950
<b>33.0</b>	401.091
<b>33.5</b>	392.283
<b>34.0</b>	383.017
<b>34.5</b>	374.158
<b>35.0</b>	365.198
<b>35.5</b>	356.339
<b>36.0</b>	347.378
<b>36.5</b>	338.570
<b>37.0</b>	329.711
<b>37.5</b>	320.954
<b>38.0</b>	312.248
<b>38.5</b>	304.153
<b>39.0</b>	296.313
<b>39.5</b>	288.116
<b>40.0</b>	279.868
<b>40.5</b>	271.620
<b>41.0</b>	263.474
<b>41.5</b>	255.481
<b>42.0</b>	247.589
<b>42.5</b>	239.952
<b>43.0</b>	232.366
<b>43.5</b>	224.729
<b>44.0</b>	217.245
<b>44.5</b>	209.863
<b>45.0</b>	202.582
<b>45.5</b>	195.403
<b>46.0</b>	188.377
<b>46.5</b>	181.504
<b>47.0</b>	174.631
<b>47.5</b>	167.809
<b>48.0</b>	161.190
<b>48.5</b>	154.520
<b>49.0</b>	147.953
<b>49.5</b>	141.538
<b>50.0</b>	135.224
<b>50.5</b>	129.013
<b>51.0</b>	122.853
<b>51.5</b>	116.743
<b>52.0</b>	110.735
<b>52.5</b>	104.829
<b>53.0</b>	99.076
<b>53.5</b>	93.425
<b>54.0</b>	87.876
<b>54.5</b>	82.326

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CANDELA TABULATION - (Cont.)

55.0	76.929
55.5	71.736
56.0	66.645
56.5	61.706
57.0	56.870
57.5	52.186
58.0	47.654
58.5	43.378
59.0	39.254
59.5	35.384
60.0	31.719
60.5	28.257
61.0	25.049
61.5	22.096
62.0	19.347
62.5	16.852
63.0	14.561
63.5	12.474
64.0	10.590
64.5	8.910
65.0	7.433
65.5	6.160
66.0	5.040
66.5	4.073
67.0	3.309
67.5	2.546
68.0	1.935
68.5	1.578
69.0	1.527
69.5	1.476
70.0	1.426
70.5	1.324
71.0	1.273
71.5	1.222
72.0	1.171
72.5	1.171
73.0	1.120
73.5	1.069
74.0	1.018
74.5	0.967
75.0	0.916
75.5	0.866
76.0	0.866
76.5	0.815
77.0	0.764
77.5	0.713
78.0	0.713
78.5	0.662
79.0	0.611
79.5	0.611
80.0	0.560
80.5	0.509
81.0	0.509
81.5	0.458
82.0	0.407
82.5	0.407

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CANDELA TABULATION - (Cont.)

83.0	0.356
83.5	0.356
84.0	0.305
84.5	0.305
85.0	0.255
85.5	0.204
86.0	0.204
86.5	0.153
87.0	0.153
87.5	0.102
88.0	0.102
88.5	0.051
89.0	0.051
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

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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
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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
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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
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161.0	0.000
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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
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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	270.33	N.A.	27.50
0-30	518.97	N.A.	52.70
0-40	746.50	N.A.	75.80
0-60	973.09	N.A.	98.80
0-80	984.29	N.A.	100.00
0-90	984.57	N.A.	100.00
10-90	910.27	N.A.	92.50
20-40	476.17	N.A.	48.40
20-50	632.74	N.A.	64.30
40-70	236.80	N.A.	24.10
60-80	11.21	N.A.	1.10
70-80	0.99	N.A.	0.10
80-90	0.28	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	984.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.31
10-20	196.02
20-30	248.64
30-40	227.53
40-50	156.57
50-60	70.01
60-70	10.21
70-80	0.99
80-90	0.28
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	61	61	61	61	60	60	60	60	57	57	57	55	55	55	53	53	53	52
1	58	56	55	54	57	55	54	53	53	52	51	51	50	50	49	49	48	47
2	55	52	49	47	53	51	49	47	49	47	46	47	46	45	46	45	44	43
3	51	47	44	42	50	47	44	42	45	43	41	44	42	40	43	41	40	39
4	48	43	40	38	47	43	40	37	42	39	37	41	38	37	40	38	36	35
5	45	40	37	34	44	40	36	34	39	36	34	38	35	33	37	35	33	32
6	42	37	33	31	41	37	33	31	36	33	31	35	32	30	34	32	30	29
7	40	34	31	28	39	34	31	28	33	30	28	33	30	28	32	30	28	27
8	38	32	28	26	37	32	28	26	31	28	26	30	28	26	30	27	26	25
9	35	30	26	24	35	29	26	24	29	26	24	28	26	24	28	25	24	23
10	34	28	24	22	33	28	24	22	27	24	22	27	24	22	26	24	22	21

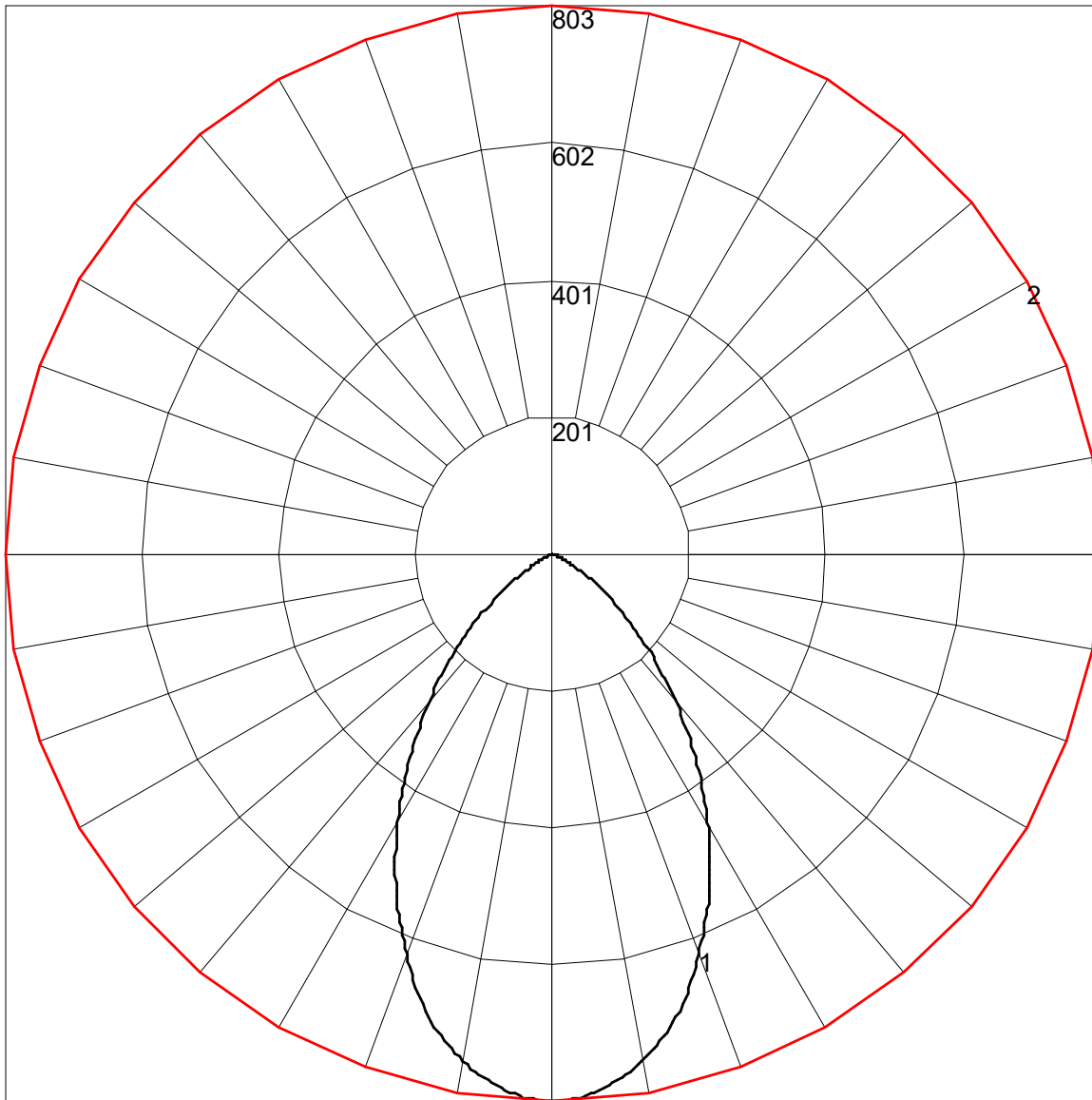
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**UGR TABLE - CORRECTED**

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 = 802.895 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.)