

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-17W-5000K\_.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-17W-5000k

[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	1476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	14.15
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	23523	23523	23523
55	11012	11012	11012
65	1444	1444	1444
75	291	291	291
85	240	240	240

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CANDELA TABULATION

	<u>0</u>
0.0	1203.635
0.5	1203.635
1.0	1202.872
1.5	1202.109
2.0	1199.819
2.5	1198.293
3.0	1196.766
3.5	1193.713
4.0	1191.423
4.5	1187.607
5.0	1184.554
5.5	1180.738
6.0	1176.159
6.5	1171.579
7.0	1167.000
7.5	1161.657
8.0	1156.314
8.5	1150.971
9.0	1145.629
9.5	1139.523
10.0	1133.417
10.5	1126.548
11.0	1119.678
11.5	1112.809
12.0	1105.177
12.5	1096.781
13.0	1089.149
13.5	1080.753
14.0	1071.594
14.5	1062.435
15.0	1052.513
15.5	1042.591
16.0	1032.669
16.5	1021.983
17.0	1011.298
17.5	999.849
18.0	988.401
18.5	976.189
19.0	963.977
19.5	952.528
20.0	939.553
20.5	926.578
21.0	914.366
21.5	902.154
22.0	889.942
22.5	876.967
23.0	864.755
23.5	853.306
24.0	841.095
24.5	828.119
25.0	815.144
25.5	802.169
26.0	789.194
26.5	776.219

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**CANDELA TABULATION - (Cont.)**

27.0	762.938
27.5	749.429
28.0	735.920
28.5	722.334
29.0	708.824
29.5	695.544
30.0	682.264
30.5	668.754
31.0	655.168
31.5	641.735
32.0	627.921
32.5	614.564
33.0	601.283
33.5	588.079
34.0	574.188
34.5	560.908
35.0	547.475
35.5	534.194
36.0	520.761
36.5	507.557
37.0	494.277
37.5	481.149
38.0	468.097
38.5	455.962
39.0	444.208
39.5	431.920
40.0	419.555
40.5	407.191
41.0	394.979
41.5	382.996
42.0	371.165
42.5	359.717
43.0	348.344
43.5	336.896
44.0	325.676
44.5	314.609
45.0	303.695
45.5	292.933
46.0	282.400
46.5	272.096
47.0	261.793
47.5	251.565
48.0	241.643
48.5	231.644
49.0	221.799
49.5	212.182
50.0	202.718
50.5	193.406
51.0	184.171
51.5	175.012
52.0	166.005
52.5	157.152
53.0	148.527
53.5	140.055
54.0	131.736
54.5	123.417

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CANDELA TABULATION - (Cont.)

55.0	115.326
55.5	107.541
56.0	99.909
56.5	92.505
57.0	85.254
57.5	78.232
58.0	71.440
58.5	65.028
59.0	58.846
59.5	53.045
60.0	47.550
60.5	42.360
61.0	37.552
61.5	33.125
62.0	29.003
62.5	25.263
63.0	21.829
63.5	18.699
64.0	15.875
64.5	13.357
65.0	11.143
65.5	9.235
66.0	7.556
66.5	6.106
67.0	4.961
67.5	3.816
68.0	2.900
68.5	2.366
69.0	2.290
69.5	2.213
70.0	2.137
70.5	1.984
71.0	1.908
71.5	1.832
72.0	1.755
72.5	1.755
73.0	1.679
73.5	1.603
74.0	1.526
74.5	1.450
75.0	1.374
75.5	1.298
76.0	1.298
76.5	1.221
77.0	1.145
77.5	1.069
78.0	1.069
78.5	0.992
79.0	0.916
79.5	0.916
80.0	0.840
80.5	0.763
81.0	0.763
81.5	0.687
82.0	0.611
82.5	0.611

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CANDELA TABULATION - (Cont.)

83.0	0.534
83.5	0.534
84.0	0.458
84.5	0.458
85.0	0.382
85.5	0.305
86.0	0.305
86.5	0.229
87.0	0.229
87.5	0.153
88.0	0.153
88.5	0.076
89.0	0.076
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  
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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
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132.0	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

IES INDOOR REPORT  
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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	405.25	N.A.	27.50
0-30	778.00	N.A.	52.70
0-40	1119.09	N.A.	75.80
0-60	1458.77	N.A.	98.80
0-80	1475.57	N.A.	100.00
0-90	1475.99	N.A.	100.00
10-90	1364.6	N.A.	92.50
20-40	713.84	N.A.	48.40
20-50	948.56	N.A.	64.30
40-70	354.99	N.A.	24.10
60-80	16.80	N.A.	1.10
70-80	1.49	N.A.	0.10
80-90	0.42	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	1475.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.40
10-20	293.86
20-30	372.75
30-40	341.09
40-50	234.72
50-60	104.96
60-70	15.31
70-80	1.49
80-90	0.42
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	89	89	89	89	87	87	87	87	83	83	83	80	80	80	76	76	76	75
1	84	82	80	78	82	80	78	77	77	76	74	74	73	72	72	71	70	69
2	79	75	71	69	77	74	70	68	71	69	66	69	67	65	67	65	63	62
3	74	69	64	61	73	68	64	60	66	62	59	64	61	58	62	60	58	56
4	70	63	58	55	68	62	58	54	61	57	54	59	56	53	57	55	52	51
5	65	58	53	49	64	57	53	49	56	52	49	55	51	48	53	50	48	46
6	61	54	49	45	60	53	48	45	52	48	44	51	47	44	50	46	44	42
7	58	50	45	41	57	49	44	41	48	44	41	47	43	40	46	43	40	39
8	54	46	41	38	53	46	41	38	45	41	37	44	40	37	43	40	37	36
9	51	43	38	35	50	43	38	35	42	38	35	41	37	34	41	37	34	33
10	49	40	36	32	48	40	35	32	39	35	32	39	35	32	38	35	32	31

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**UGR TABLE - CORRECTED**

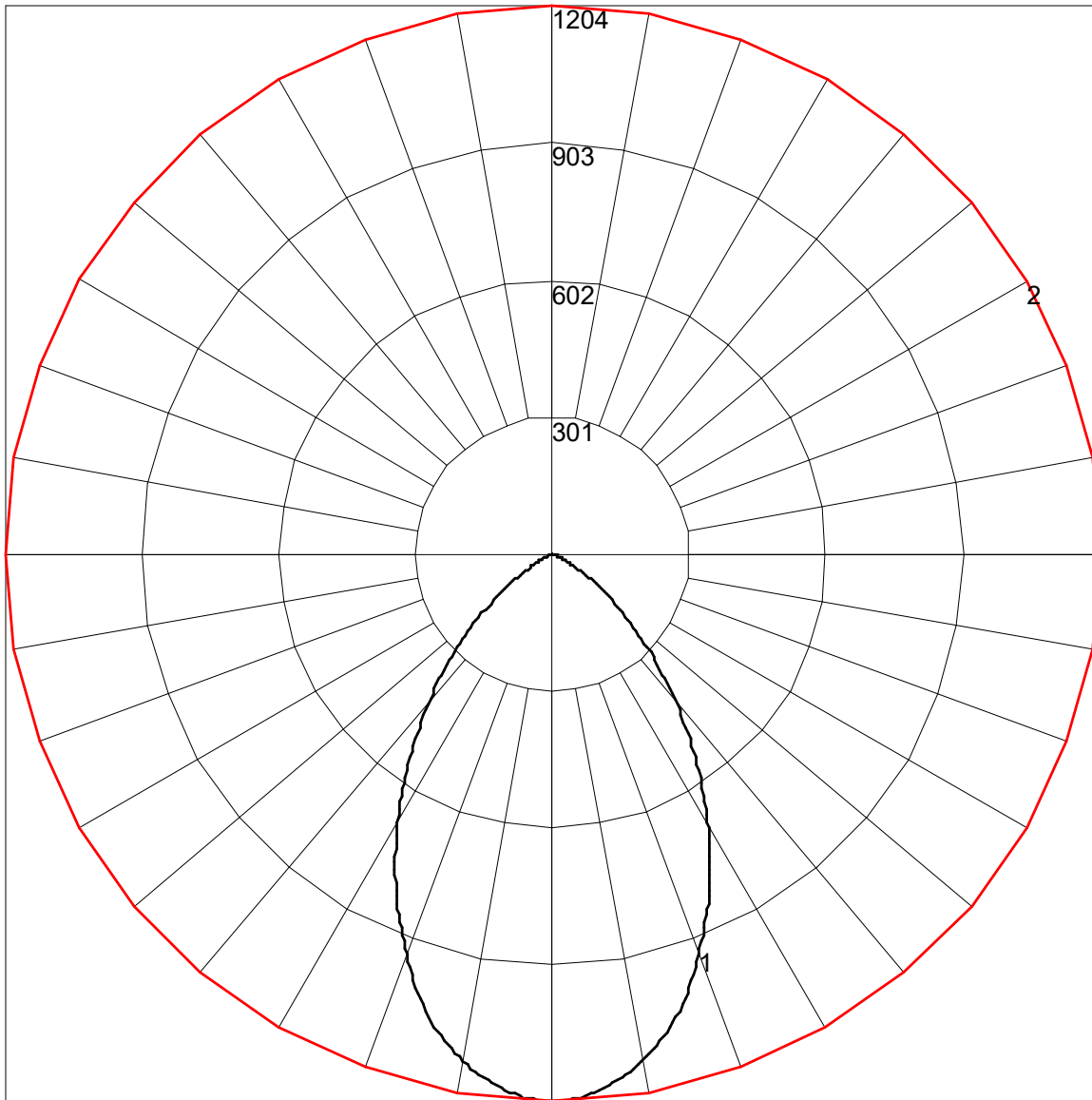
Reflectances

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	16.0	17.2	16.4	17.5	17.8	16.0	17.2	16.4	17.5	17.8
	3H	15.9	16.9	16.2	17.2	17.6	15.9	16.9	16.2	17.2	17.6
	4H	15.8	16.8	16.2	17.1	17.5	15.8	16.8	16.2	17.1	17.5
	6H	15.7	16.6	16.1	17.0	17.4	15.7	16.6	16.1	17.0	17.4
	8H	15.7	16.5	16.1	16.9	17.3	15.7	16.5	16.1	16.9	17.3
	12H	15.6	16.4	16.0	16.8	17.2	15.6	16.4	16.0	16.8	17.2
4H	2H	15.8	16.8	16.2	17.1	17.5	15.8	16.8	16.2	17.1	17.5
	3H	15.7	16.4	16.1	16.8	17.3	15.7	16.4	16.1	16.8	17.3
	4H	15.6	16.3	16.0	16.7	17.1	15.6	16.3	16.0	16.7	17.1
	6H	15.5	16.1	15.9	16.5	17.0	15.5	16.1	15.9	16.5	17.0
	8H	15.4	16.0	15.9	16.4	16.9	15.4	16.0	15.9	16.4	16.9
	12H	15.4	15.8	15.8	16.3	16.8	15.4	15.8	15.8	16.3	16.8
8H	4H	15.4	16.0	15.9	16.4	16.9	15.4	16.0	15.9	16.4	16.9
	6H	15.3	15.7	15.8	16.2	16.7	15.3	15.7	15.8	16.2	16.7
	8H	15.2	15.6	15.8	16.2	16.7	15.2	15.6	15.8	16.2	16.7
	12H	15.2	15.5	15.7	16.0	16.6	15.2	15.5	15.7	16.0	16.6
12H	4H	15.4	15.8	15.8	16.3	16.8	15.4	15.8	15.8	16.3	16.8
	6H	15.2	15.6	15.8	16.1	16.7	15.2	15.6	15.8	16.1	16.7
	8H	15.2	15.5	15.7	16.0	16.6	15.2	15.5	15.7	16.0	16.6

Maximum UGR = 17.8

POLAR GRAPH



Maximum Candela = 1203.635 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.)