

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-17W-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-17W-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	1346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	14.24
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	21445	21445	21445
55	10039	10039	10039
65	1317	1317	1317
75	265	265	265
85	219	219	219

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CANDELA TABULATION

	<u>0</u>
0.0	1097.321
0.5	1097.321
1.0	1096.625
1.5	1095.929
2.0	1093.842
2.5	1092.450
3.0	1091.058
3.5	1088.275
4.0	1086.188
4.5	1082.708
5.0	1079.925
5.5	1076.446
6.0	1072.271
6.5	1068.096
7.0	1063.921
7.5	1059.050
8.0	1054.179
8.5	1049.309
9.0	1044.438
9.5	1038.871
10.0	1033.305
10.5	1027.042
11.0	1020.780
11.5	1014.517
12.0	1007.559
12.5	999.905
13.0	992.947
13.5	985.292
14.0	976.943
14.5	968.593
15.0	959.547
15.5	950.501
16.0	941.455
16.5	931.714
17.0	921.972
17.5	911.535
18.0	901.097
18.5	889.964
19.0	878.831
19.5	868.393
20.0	856.564
20.5	844.735
21.0	833.602
21.5	822.469
22.0	811.335
22.5	799.506
23.0	788.373
23.5	777.936
24.0	766.802
24.5	754.973
25.0	743.144
25.5	731.315
26.0	719.486
26.5	707.657

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CANDELA TABULATION - (Cont.)

27.0	695.550
27.5	683.234
28.0	670.917
28.5	658.532
29.0	646.215
29.5	634.108
30.0	622.001
30.5	609.685
31.0	597.299
31.5	585.052
32.0	572.458
32.5	560.281
33.0	548.173
33.5	536.135
34.0	523.471
34.5	511.364
35.0	499.117
35.5	487.010
36.0	474.763
36.5	462.726
37.0	450.618
37.5	438.650
38.0	426.751
38.5	415.688
39.0	404.972
39.5	393.769
40.0	382.497
40.5	371.224
41.0	360.091
41.5	349.167
42.0	338.381
42.5	327.944
43.0	317.576
43.5	307.138
44.0	296.910
44.5	286.820
45.0	276.870
45.5	267.059
46.0	257.456
46.5	248.063
47.0	238.669
47.5	229.345
48.0	220.299
48.5	211.184
49.0	202.208
49.5	193.440
50.0	184.812
50.5	176.323
51.0	167.903
51.5	159.553
52.0	151.343
52.5	143.271
53.0	135.408
53.5	127.684
54.0	120.100
54.5	112.515

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CANDELA TABULATION - (Cont.)

55.0	105.140
55.5	98.042
56.0	91.084
56.5	84.334
57.0	77.724
57.5	71.322
58.0	65.130
58.5	59.285
59.0	53.648
59.5	48.360
60.0	43.350
60.5	38.618
61.0	34.235
61.5	30.199
62.0	26.441
62.5	23.032
63.0	19.901
63.5	17.048
64.0	14.473
64.5	12.177
65.0	10.159
65.5	8.420
66.0	6.889
66.5	5.567
67.0	4.523
67.5	3.479
68.0	2.644
68.5	2.157
69.0	2.087
69.5	2.018
70.0	1.948
70.5	1.809
71.0	1.740
71.5	1.670
72.0	1.600
72.5	1.600
73.0	1.531
73.5	1.461
74.0	1.392
74.5	1.322
75.0	1.252
75.5	1.183
76.0	1.183
76.5	1.113
77.0	1.044
77.5	0.974
78.0	0.974
78.5	0.905
79.0	0.835
79.5	0.835
80.0	0.765
80.5	0.696
81.0	0.696
81.5	0.626
82.0	0.557
82.5	0.557

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CANDELA TABULATION - (Cont.)

83.0	0.487
83.5	0.487
84.0	0.417
84.5	0.417
85.0	0.348
85.5	0.278
86.0	0.278
86.5	0.209
87.0	0.209
87.5	0.139
88.0	0.139
88.5	0.070
89.0	0.070
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
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	369.46	N.A.	27.50
0-30	709.28	N.A.	52.70
0-40	1020.25	N.A.	75.80
0-60	1329.92	N.A.	98.80
0-80	1345.24	N.A.	100.00
0-90	1345.62	N.A.	100.00
10-90	1244.06	N.A.	92.50
20-40	650.79	N.A.	48.40
20-50	864.78	N.A.	64.30
40-70	323.63	N.A.	24.10
60-80	15.32	N.A.	1.10
70-80	1.36	N.A.	0.10
80-90	0.38	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	1345.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.56
10-20	267.90
20-30	339.82
30-40	310.97
40-50	213.99
50-60	95.69
60-70	13.96
70-80	1.36
80-90	0.38
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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70
1	79	77	75	73	78	76	74	72	73	71	70	70	69	68	68	67	66	65
2	75	71	67	65	73	69	66	64	67	65	62	65	63	61	63	61	60	59
3	70	65	61	57	68	64	60	57	62	59	56	60	57	55	58	56	54	53
4	66	59	55	51	64	59	54	51	57	53	50	56	52	50	54	51	49	48
5	62	55	50	46	60	54	50	46	53	49	46	51	48	45	50	47	45	44
6	58	51	46	42	57	50	45	42	49	45	42	48	44	41	47	44	41	40
7	54	47	42	39	53	46	42	38	45	41	38	45	41	38	44	40	38	37
8	51	44	39	35	50	43	39	35	42	38	35	42	38	35	41	37	35	34
9	48	41	36	33	48	40	36	33	40	35	33	39	35	32	38	35	32	31
10	46	38	33	30	45	38	33	30	37	33	30	37	33	30	36	33	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

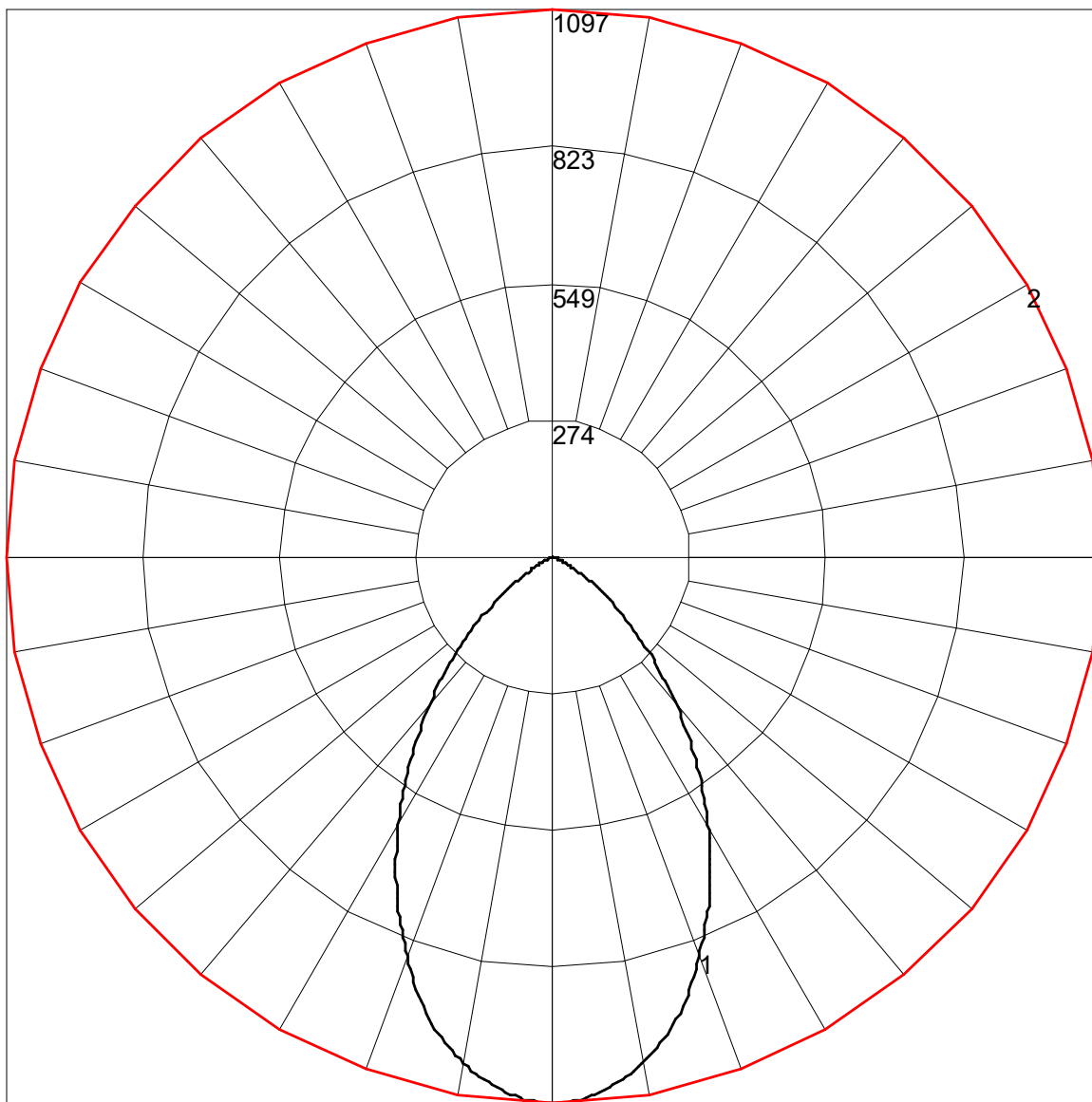
X=2H	Y=2H	15.9	17.1	16.3	17.4	17.7	15.9	17.1	16.3	17.4	17.7
	3H	15.8	16.8	16.1	17.1	17.5	15.8	16.8	16.1	17.1	17.5
	4H	15.7	16.7	16.1	17.0	17.4	15.7	16.7	16.1	17.0	17.4
	6H	15.6	16.5	16.0	16.9	17.3	15.6	16.5	16.0	16.9	17.3
	8H	15.6	16.4	16.0	16.8	17.2	15.6	16.4	16.0	16.8	17.2
	12H	15.5	16.3	15.9	16.7	17.1	15.5	16.3	15.9	16.7	17.1

UGR Viewed Endwise

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 = 1097.321 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.)