

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6RCD-LS-9CS-SS-DIM-UNV-17W-3000K_.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-3000k

[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	1365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	14.1
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	21752	21752	21752
55	10183	10183	10183
65	1335	1335	1335
75	269	269	269
85	222	222	222

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CANDELA TABULATION

	<u>0</u>
0.0	1113.022
0.5	1113.022
1.0	1112.317
1.5	1111.611
2.0	1109.494
2.5	1108.082
3.0	1106.670
3.5	1103.847
4.0	1101.730
4.5	1098.201
5.0	1095.378
5.5	1091.849
6.0	1087.614
6.5	1083.379
7.0	1079.145
7.5	1074.204
8.0	1069.264
8.5	1064.323
9.0	1059.383
9.5	1053.737
10.0	1048.090
10.5	1041.738
11.0	1035.386
11.5	1029.034
12.0	1021.976
12.5	1014.213
13.0	1007.155
13.5	999.391
14.0	990.922
14.5	982.452
15.0	973.277
15.5	964.102
16.0	954.927
16.5	945.046
17.0	935.165
17.5	924.578
18.0	913.991
18.5	902.699
19.0	891.406
19.5	880.819
20.0	868.821
20.5	856.823
21.0	845.530
21.5	834.237
22.0	822.945
22.5	810.947
23.0	799.654
23.5	789.067
24.0	777.775
24.5	765.776
25.0	753.778
25.5	741.780
26.0	729.781
26.5	717.783

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CANDELA TABULATION - (Cont.)

27.0	705.502
27.5	693.010
28.0	680.518
28.5	667.955
29.0	655.462
29.5	643.182
30.0	630.901
30.5	618.409
31.0	605.846
31.5	593.424
32.0	580.649
32.5	568.298
33.0	556.017
33.5	543.807
34.0	530.962
34.5	518.681
35.0	506.259
35.5	493.979
36.0	481.557
36.5	469.347
37.0	457.066
37.5	444.927
38.0	432.858
38.5	421.636
39.0	410.767
39.5	399.404
40.0	387.970
40.5	376.536
41.0	365.244
41.5	354.163
42.0	343.223
42.5	332.636
43.0	322.120
43.5	311.533
44.0	301.158
44.5	290.924
45.0	280.832
45.5	270.880
46.0	261.140
46.5	251.612
47.0	242.084
47.5	232.627
48.0	223.451
48.5	214.206
49.0	205.101
49.5	196.208
50.0	187.456
50.5	178.846
51.0	170.306
51.5	161.836
52.0	153.508
52.5	145.321
53.0	137.346
53.5	129.511
54.0	121.818
54.5	114.125

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CANDELA TABULATION - (Cont.)

55.0	106.644
55.5	99.445
56.0	92.387
56.5	85.541
57.0	78.836
57.5	72.343
58.0	66.061
58.5	60.133
59.0	54.416
59.5	49.052
60.0	43.970
60.5	39.171
61.0	34.725
61.5	30.631
62.0	26.820
62.5	23.361
63.0	20.185
63.5	17.292
64.0	14.680
64.5	12.351
65.0	10.304
65.5	8.540
66.0	6.987
66.5	5.646
67.0	4.588
67.5	3.529
68.0	2.682
68.5	2.188
69.0	2.117
69.5	2.047
70.0	1.976
70.5	1.835
71.0	1.764
71.5	1.694
72.0	1.623
72.5	1.623
73.0	1.553
73.5	1.482
74.0	1.412
74.5	1.341
75.0	1.270
75.5	1.200
76.0	1.200
76.5	1.129
77.0	1.059
77.5	0.988
78.0	0.988
78.5	0.918
79.0	0.847
79.5	0.847
80.0	0.776
80.5	0.706
81.0	0.706
81.5	0.635
82.0	0.565
82.5	0.565

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CANDELA TABULATION - (Cont.)

83.0	0.494
83.5	0.494
84.0	0.423
84.5	0.423
85.0	0.353
85.5	0.282
86.0	0.282
86.5	0.212
87.0	0.212
87.5	0.141
88.0	0.141
88.5	0.071
89.0	0.071
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
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134.0	0.000
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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	374.75	N.A.	27.50
0-30	719.43	N.A.	52.70
0-40	1034.85	N.A.	75.80
0-60	1348.95	N.A.	98.80
0-80	1364.49	N.A.	100.00
0-90	1364.88	N.A.	100.00
10-90	1261.87	N.A.	92.50
20-40	660.10	N.A.	48.40
20-50	877.15	N.A.	64.30
40-70	328.26	N.A.	24.10
60-80	15.53	N.A.	1.10
70-80	1.38	N.A.	0.10
80-90	0.39	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	1364.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.01
10-20	271.73
20-30	344.69
30-40	315.41
40-50	217.05
50-60	97.06
60-70	14.16
70-80	1.38
80-90	0.39
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	80	78	76	74	79	77	75	73	74	72	71	71	70	69	69	68	67	65
2	76	72	68	65	74	70	67	65	68	65	63	66	64	62	64	62	61	59
3	71	66	62	58	69	65	61	58	63	59	57	61	58	56	59	57	55	54
4	67	60	56	52	65	59	55	52	58	54	51	56	53	51	55	52	50	49
5	62	56	51	47	61	55	50	47	53	49	46	52	49	46	51	48	46	44
6	59	51	46	43	58	51	46	43	50	45	42	48	45	42	47	44	42	41
7	55	48	43	39	54	47	42	39	46	42	39	45	41	39	44	41	38	37
8	52	44	39	36	51	44	39	36	43	39	36	42	38	36	41	38	35	34
9	49	41	36	33	48	41	36	33	40	36	33	39	36	33	39	35	33	32
10	46	39	34	31	46	38	34	31	38	34	31	37	33	31	36	33	30	29

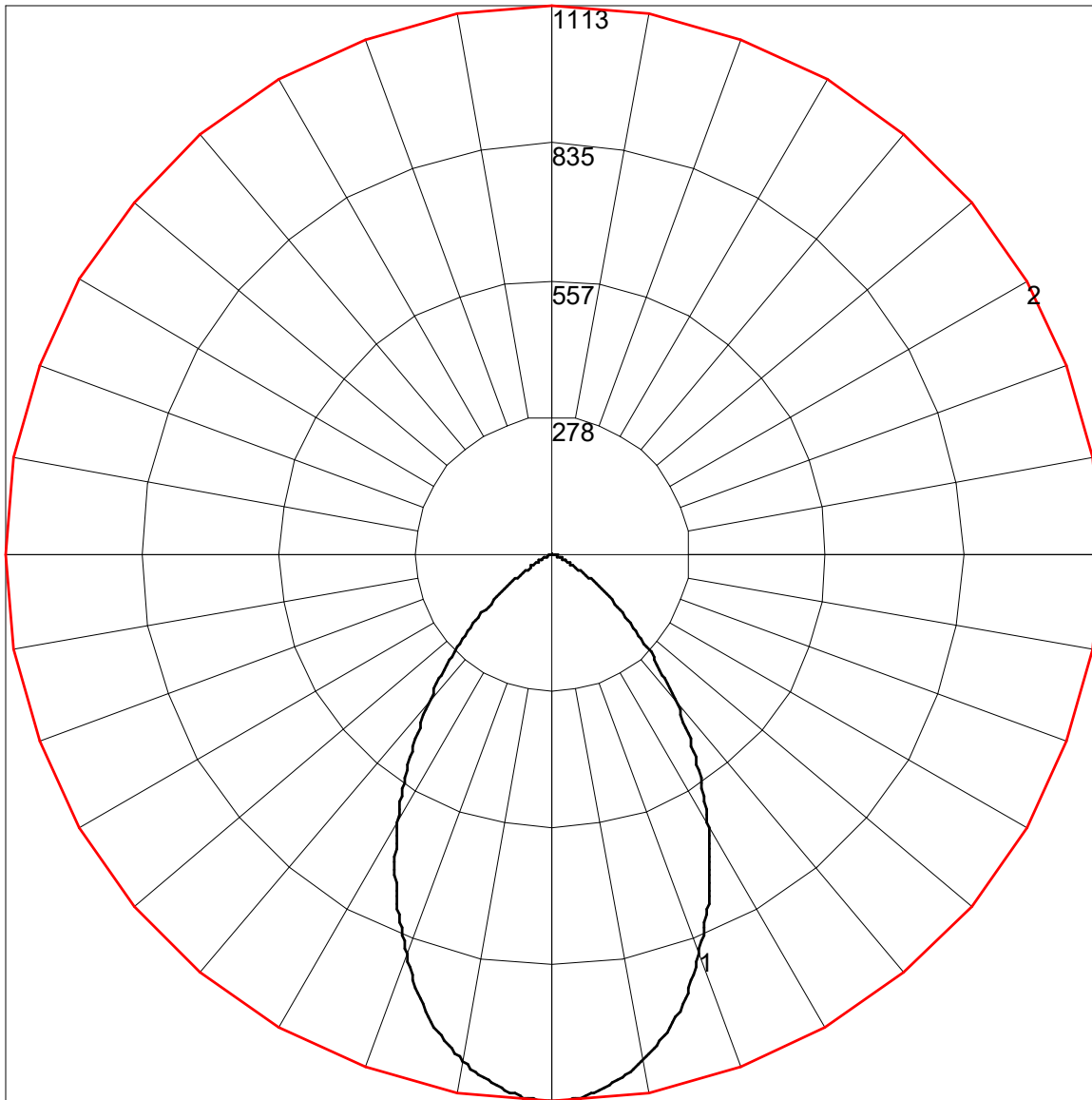
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UGR TABLE - CORRECTED

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					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 = 1113.022 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.)