

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-940-DIM-UNV-RW-OF-BL_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L5-940-DIM-UNV-RW-OF-BL_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11657	11657	11657
55	9224	9224	9224
65	6895	6895	6895
75	3590	3590	3590
85	2175	2175	2175

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CANDELA TABULATION

	<u>0</u>
0.0	387.480
0.5	387.480
1.0	387.281
1.5	387.081
2.0	387.081
2.5	386.682
3.0	386.082
3.5	385.283
4.0	384.484
4.5	383.686
5.0	382.487
5.5	381.489
6.0	380.290
6.5	378.892
7.0	377.494
7.5	376.096
8.0	374.698
8.5	373.100
9.0	371.302
9.5	369.704
10.0	367.907
10.5	365.909
11.0	363.712
11.5	361.515
12.0	359.118
12.5	356.722
13.0	354.125
13.5	351.329
14.0	348.333
14.5	345.337
15.0	341.942
15.5	338.546
16.0	334.751
16.5	330.956
17.0	326.962
17.5	322.767
18.0	318.373
18.5	313.580
19.0	308.586
19.5	303.193
20.0	297.601
20.5	291.809
21.0	285.617
21.5	279.226
22.0	272.235
22.5	265.244
23.0	257.854
23.5	250.264
24.0	242.275
24.5	234.286
25.0	226.097
25.5	217.508
26.0	208.720
26.5	199.932

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CANDELA TABULATION - (Cont.)

27.0	191.204
27.5	182.435
28.0	173.587
28.5	164.779
29.0	155.771
29.5	146.703
30.0	137.715
30.5	128.867
31.0	120.139
31.5	111.710
32.0	103.601
32.5	95.931
33.0	88.821
33.5	82.230
34.0	76.098
34.5	70.485
35.0	65.392
35.5	60.719
36.0	56.484
36.5	52.689
37.0	49.314
37.5	46.298
38.0	43.562
38.5	41.125
39.0	38.988
39.5	37.110
40.0	35.432
40.5	33.974
41.0	32.676
41.5	31.518
42.0	30.479
42.5	29.560
43.0	28.721
43.5	27.982
44.0	27.283
44.5	26.644
45.0	26.045
45.5	25.466
46.0	24.927
46.5	24.387
47.0	23.888
47.5	23.389
48.0	22.889
48.5	22.410
49.0	21.931
49.5	21.451
50.0	20.992
50.5	20.552
51.0	20.093
51.5	19.654
52.0	19.234
52.5	18.795
53.0	18.375
53.5	17.956
54.0	17.536
54.5	17.117

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CANDELA TABULATION - (Cont.)

55.0	16.718
55.5	16.318
56.0	15.919
56.5	15.519
57.0	15.120
57.5	14.740
58.0	14.341
58.5	13.961
59.0	13.582
59.5	13.222
60.0	12.843
60.5	12.463
61.0	12.084
61.5	11.724
62.0	11.345
62.5	10.985
63.0	10.626
63.5	10.266
64.0	9.907
64.5	9.547
65.0	9.208
65.5	8.868
66.0	8.529
66.5	8.169
67.0	7.849
67.5	7.530
68.0	7.190
68.5	6.871
69.0	6.551
69.5	6.232
70.0	5.932
70.5	5.612
71.0	5.313
71.5	4.993
72.0	4.694
72.5	4.394
73.0	4.095
73.5	3.795
74.0	3.515
74.5	3.216
75.0	2.936
75.5	2.676
76.0	2.417
76.5	2.217
77.0	2.037
77.5	1.877
78.0	1.758
78.5	1.658
79.0	1.578
79.5	1.498
80.0	1.398
80.5	1.318
81.0	1.238
81.5	1.158
82.0	1.059
82.5	0.979

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CANDELA TABULATION - (Cont.)

83.0	0.919
83.5	0.839
84.0	0.759
84.5	0.679
85.0	0.599
85.5	0.539
86.0	0.459
86.5	0.399
87.0	0.320
87.5	0.260
88.0	0.200
88.5	0.140
89.0	0.080
89.5	0.060
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	131.06	N.A.	40.30
0-30	232.01	N.A.	71.40
0-40	276.42	N.A.	85.00
0-60	311.93	N.A.	95.90
0-80	324.44	N.A.	99.80
0-90	325.13	N.A.	100.00
10-90	289.09	N.A.	88.90
20-40	145.37	N.A.	44.70
20-50	165.89	N.A.	51.00
40-70	44.66	N.A.	13.70
60-80	12.51	N.A.	3.80
70-80	3.36	N.A.	1.00
80-90	0.69	N.A.	0.20
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	325.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.04
10-20	95.02
20-30	100.95
30-40	44.42
40-50	20.52
50-60	14.98
60-70	9.15
70-80	3.36
80-90	0.69
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	73	66	62	81	72	66	62	71	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	58	55	63	58	54	62	58	54	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

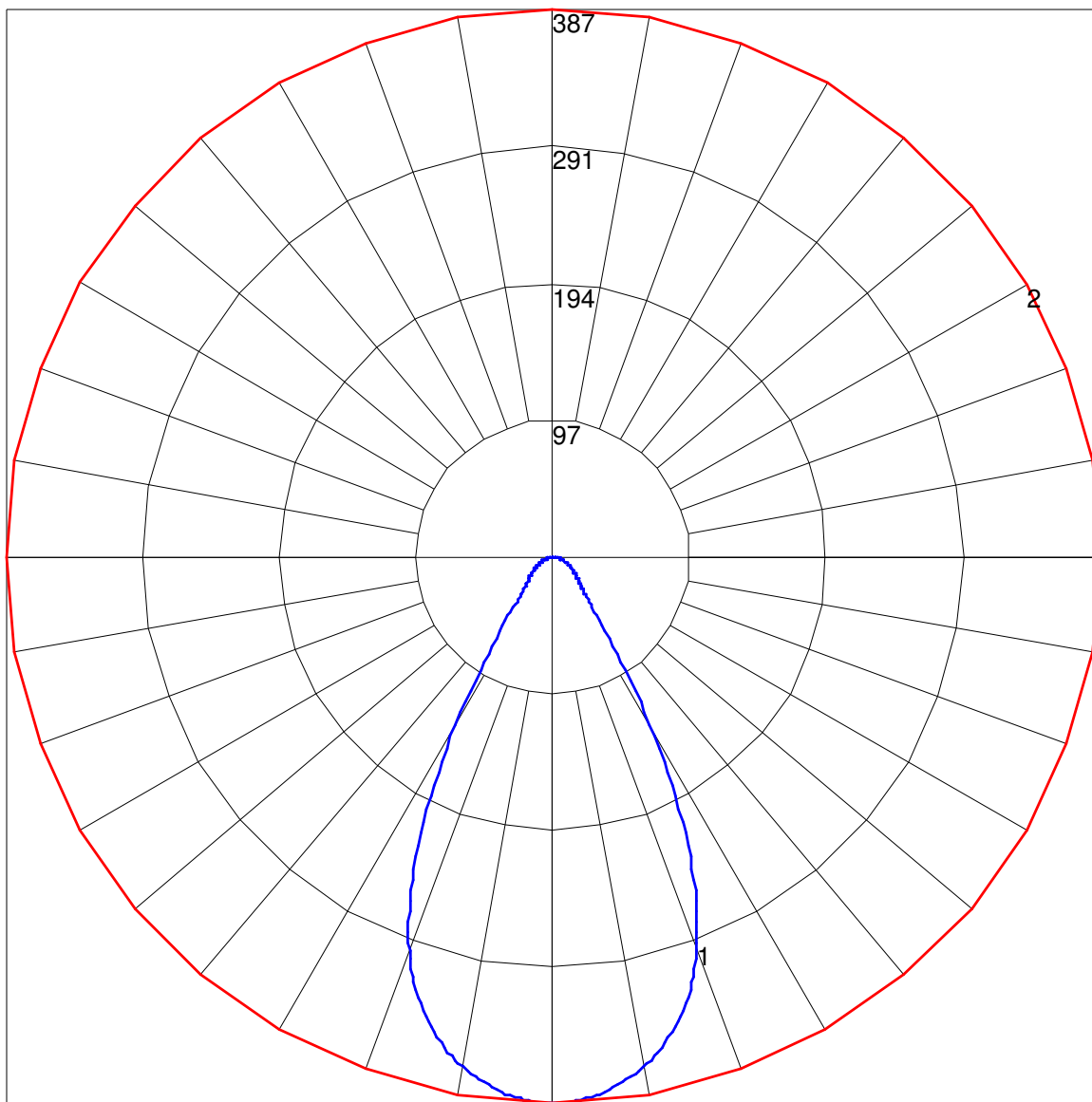
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UGR TABLE - CORRECTED

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	15.0	16.1	15.4	16.4	16.7	15.0	16.1	15.4	16.4	16.7
	3H	16.0	17.0	16.4	17.3	17.7	16.0	17.0	16.4	17.3	17.7
	4H	16.2	17.1	16.6	17.5	17.9	16.2	17.1	16.6	17.5	17.9
	6H	16.2	17.1	16.7	17.5	17.8	16.2	17.1	16.7	17.5	17.8
	8H	16.2	17.0	16.7	17.4	17.8	16.2	17.0	16.7	17.4	17.8
	12H	16.2	17.0	16.7	17.4	17.8	16.2	17.0	16.7	17.4	17.8
4H	2H	15.3	16.2	15.7	16.6	17.0	15.3	16.2	15.7	16.6	17.0
	3H	16.5	17.2	16.9	17.7	18.1	16.5	17.2	16.9	17.7	18.1
	4H	16.7	17.4	17.2	17.8	18.3	16.7	17.4	17.2	17.8	18.3
	6H	16.8	17.4	17.3	17.8	18.3	16.8	17.4	17.3	17.8	18.3
	8H	16.8	17.3	17.3	17.8	18.3	16.8	17.3	17.3	17.8	18.3
	12H	16.8	17.3	17.3	17.8	18.2	16.8	17.3	17.3	17.8	18.2
8H	4H	16.7	17.3	17.2	17.7	18.2	16.7	17.3	17.2	17.7	18.2
	6H	16.9	17.3	17.4	17.8	18.3	16.9	17.3	17.4	17.8	18.3
	8H	16.9	17.3	17.4	17.8	18.3	16.9	17.3	17.4	17.8	18.3
	12H	16.9	17.2	17.4	17.7	18.3	16.9	17.2	17.4	17.7	18.3
12H	4H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
	6H	16.8	17.2	17.4	17.7	18.2	16.8	17.2	17.4	17.7	18.2
	8H	16.9	17.2	17.4	17.7	18.3	16.9	17.2	17.4	17.7	18.3

Maximum UGR = 18.3

POLAR GRAPH



Maximum Candela = 387.48 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)