

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.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-L8-840-DIM-UNV-RW-OF-WH_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod 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	806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	10.7
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	28894	28894	28894
55	22864	22864	22864
65	17091	17091	17091
75	8899	8899	8899
85	5392	5392	5392

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	960.443
0.5	960.443
1.0	959.948
1.5	959.453
2.0	959.453
2.5	958.463
3.0	956.977
3.5	954.997
4.0	953.017
4.5	951.037
5.0	948.066
5.5	945.591
6.0	942.620
6.5	939.155
7.0	935.689
7.5	932.224
8.0	928.758
8.5	924.798
9.0	920.342
9.5	916.381
10.0	911.926
10.5	906.975
11.0	901.529
11.5	896.083
12.0	890.143
12.5	884.202
13.0	877.766
13.5	870.835
14.0	863.409
14.5	855.982
15.0	847.566
15.5	839.150
16.0	829.744
16.5	820.337
17.0	810.436
17.5	800.039
18.0	789.147
18.5	777.266
19.0	764.889
19.5	751.522
20.0	737.660
20.5	723.303
21.0	707.955
21.5	692.113
22.0	674.785
22.5	657.458
23.0	639.140
23.5	620.327
24.0	600.524
24.5	580.721
25.0	560.423
25.5	539.135
26.0	517.352
26.5	495.569

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	473.934
27.5	452.200
28.0	430.269
28.5	408.436
29.0	386.108
29.5	363.632
30.0	341.353
30.5	319.422
31.0	297.787
31.5	276.895
32.0	256.795
32.5	237.784
33.0	220.159
33.5	203.822
34.0	188.623
34.5	174.712
35.0	162.087
35.5	150.502
36.0	140.007
36.5	130.600
37.0	122.234
37.5	114.758
38.0	107.976
38.5	101.936
39.0	96.638
39.5	91.985
40.0	87.826
40.5	84.212
41.0	80.994
41.5	78.123
42.0	75.548
42.5	73.271
43.0	71.192
43.5	69.360
44.0	67.627
44.5	66.043
45.0	64.558
45.5	63.122
46.0	61.785
46.5	60.448
47.0	59.211
47.5	57.973
48.0	56.735
48.5	55.547
49.0	54.359
49.5	53.171
50.0	52.032
50.5	50.943
51.0	49.804
51.5	48.715
52.0	47.676
52.5	46.586
53.0	45.547
53.5	44.507
54.0	43.467
54.5	42.428

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	41.438
55.5	40.448
56.0	39.457
56.5	38.467
57.0	37.477
57.5	36.536
58.0	35.546
58.5	34.606
59.0	33.665
59.5	32.774
60.0	31.833
60.5	30.893
61.0	29.952
61.5	29.061
62.0	28.120
62.5	27.229
63.0	26.338
63.5	25.447
64.0	24.556
64.5	23.665
65.0	22.823
65.5	21.981
66.0	21.140
66.5	20.249
67.0	19.456
67.5	18.664
68.0	17.823
68.5	17.031
69.0	16.238
69.5	15.446
70.0	14.704
70.5	13.912
71.0	13.169
71.5	12.377
72.0	11.634
72.5	10.892
73.0	10.149
73.5	9.406
74.0	8.713
74.5	7.971
75.0	7.278
75.5	6.634
76.0	5.990
76.5	5.495
77.0	5.050
77.5	4.654
78.0	4.357
78.5	4.109
79.0	3.911
79.5	3.713
80.0	3.466
80.5	3.267
81.0	3.069
81.5	2.871
82.0	2.624
82.5	2.426

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	2.277
83.5	2.079
84.0	1.881
84.5	1.683
85.0	1.485
85.5	1.337
86.0	1.139
86.5	0.990
87.0	0.792
87.5	0.644
88.0	0.495
88.5	0.347
89.0	0.198
89.5	0.149
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
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	324.85	N.A.	40.30
0-30	575.07	N.A.	71.40
0-40	685.17	N.A.	85.00
0-60	773.17	N.A.	95.90
0-80	804.19	N.A.	99.80
0-90	805.90	N.A.	100.00
10-90	716.57	N.A.	88.90
20-40	360.32	N.A.	44.70
20-50	411.18	N.A.	51.00
40-70	110.69	N.A.	13.70
60-80	31.02	N.A.	3.80
70-80	8.33	N.A.	1.00
80-90	1.71	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	805.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.34
10-20	235.52
20-30	250.22
30-40	110.10
40-50	50.86
50-60	37.14
60-70	22.68
70-80	8.33
80-90	1.71
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

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	110	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	85	83	80	79
4	96	88	82	78	94	87	81	77	84	80	76	82	78	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	72	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	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

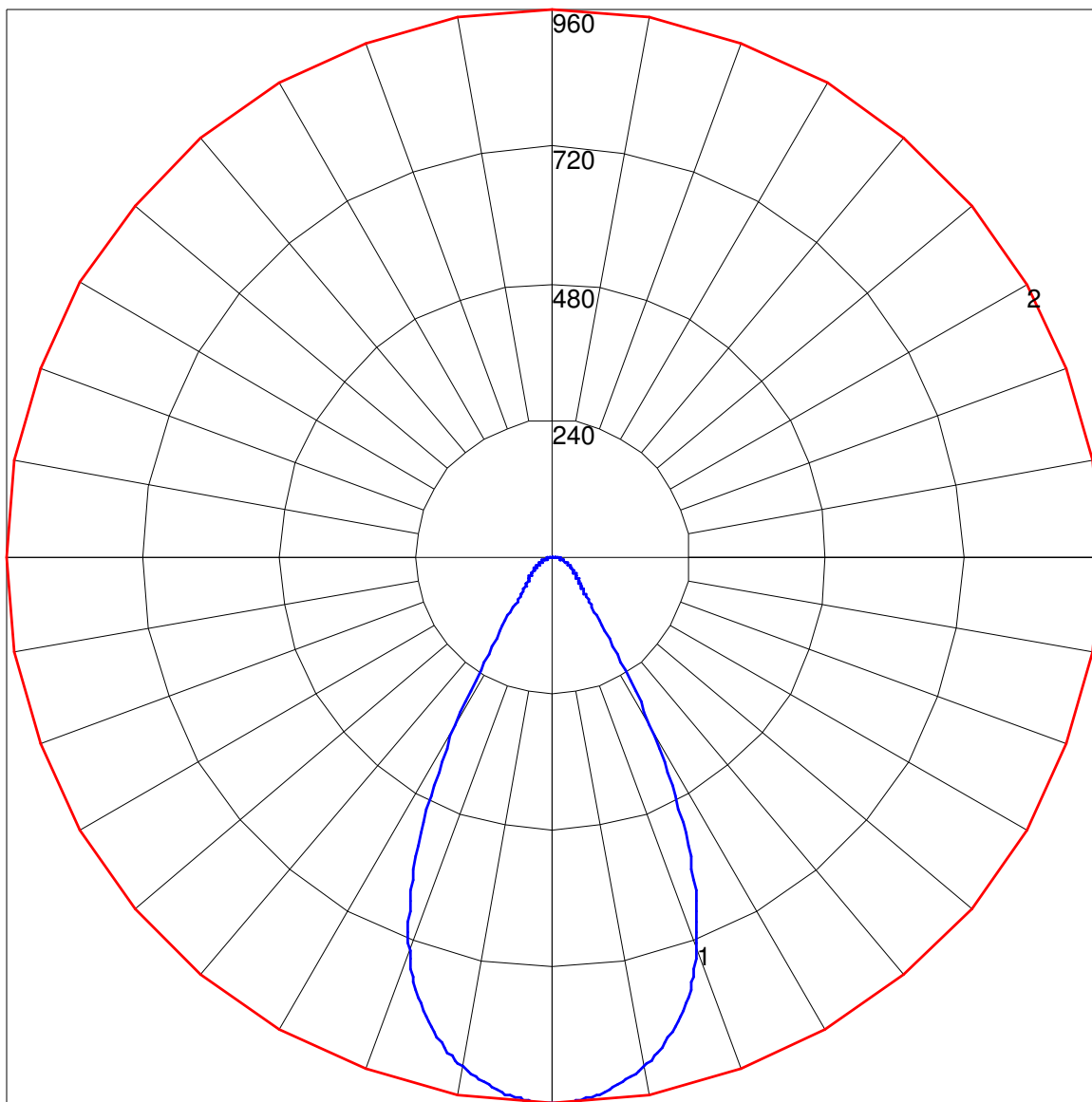
IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-WH_.IES

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	18.2	19.3	18.6	19.6	19.9	18.2	19.3	18.6	19.6	19.9
	3H	19.2	20.2	19.6	20.5	20.9	19.2	20.2	19.6	20.5	20.9
	4H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	6H	19.4	20.3	19.9	20.7	21.0	19.4	20.3	19.9	20.7	21.0
	8H	19.4	20.2	19.9	20.6	21.0	19.4	20.2	19.9	20.6	21.0
	12H	19.4	20.2	19.9	20.6	21.0	19.4	20.2	19.9	20.6	21.0
4H	2H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.2
	3H	19.7	20.4	20.1	20.9	21.3	19.7	20.4	20.1	20.9	21.3
	4H	19.9	20.6	20.4	21.0	21.5	19.9	20.6	20.4	21.0	21.5
	6H	20.0	20.6	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.5
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.0	20.5	20.5	21.0	21.4	20.0	20.5	20.5	21.0	21.4
8H	4H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
	6H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	8H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	12H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5
12H	4H	19.9	20.3	20.4	20.8	21.3	19.9	20.3	20.4	20.8	21.3
	6H	20.0	20.4	20.6	20.9	21.4	20.0	20.4	20.6	20.9	21.4
	8H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 960.443 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.)