

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-850-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-L5-850-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	395
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
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	14155	14155	14155
55	11201	11201	11201
65	8373	8373	8373
75	4359	4359	4359
85	2644	2644	2644

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-850-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION

	<u>0</u>
0.0	470.512
0.5	470.512
1.0	470.269
1.5	470.027
2.0	470.027
2.5	469.542
3.0	468.814
3.5	467.844
4.0	466.874
4.5	465.904
5.0	464.449
5.5	463.236
6.0	461.781
6.5	460.083
7.0	458.385
7.5	456.688
8.0	454.990
8.5	453.050
9.0	450.867
9.5	448.927
10.0	446.744
10.5	444.318
11.0	441.651
11.5	438.983
12.0	436.072
12.5	433.162
13.0	430.009
13.5	426.614
14.0	422.976
14.5	419.338
15.0	415.215
15.5	411.092
16.0	406.483
16.5	401.875
17.0	397.025
17.5	391.932
18.0	386.596
18.5	380.775
19.0	374.712
19.5	368.163
20.0	361.373
20.5	354.339
21.0	346.821
21.5	339.060
22.0	330.571
22.5	322.082
23.0	313.109
23.5	303.892
24.0	294.191
24.5	284.490
25.0	274.546
25.5	264.117
26.0	253.446
26.5	242.774

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-850-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION - (Cont.)

27.0	232.176
27.5	221.529
28.0	210.784
28.5	200.089
29.0	189.151
29.5	178.140
30.0	167.226
30.5	156.482
31.0	145.883
31.5	135.648
32.0	125.801
32.5	116.488
33.0	107.854
33.5	99.850
34.0	92.405
34.5	85.590
35.0	79.405
35.5	73.730
36.0	68.588
36.5	63.980
37.0	59.881
37.5	56.219
38.0	52.896
38.5	49.937
39.0	47.342
39.5	45.062
40.0	43.025
40.5	41.255
41.0	39.678
41.5	38.272
42.0	37.010
42.5	35.895
43.0	34.876
43.5	33.979
44.0	33.130
44.5	32.354
45.0	31.626
45.5	30.923
46.0	30.268
46.5	29.613
47.0	29.007
47.5	28.400
48.0	27.794
48.5	27.212
49.0	26.630
49.5	26.048
50.0	25.490
50.5	24.957
51.0	24.399
51.5	23.865
52.0	23.356
52.5	22.822
53.0	22.313
53.5	21.804
54.0	21.294
54.5	20.785

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-850-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION - (Cont.)

55.0	20.300
55.5	19.815
56.0	19.330
56.5	18.845
57.0	18.360
57.5	17.899
58.0	17.414
58.5	16.953
59.0	16.492
59.5	16.056
60.0	15.595
60.5	15.134
61.0	14.673
61.5	14.237
62.0	13.776
62.5	13.339
63.0	12.903
63.5	12.466
64.0	12.030
64.5	11.593
65.0	11.181
65.5	10.768
66.0	10.356
66.5	9.920
67.0	9.532
67.5	9.143
68.0	8.731
68.5	8.343
69.0	7.955
69.5	7.567
70.0	7.203
70.5	6.815
71.0	6.451
71.5	6.063
72.0	5.699
72.5	5.336
73.0	4.972
73.5	4.608
74.0	4.269
74.5	3.905
75.0	3.565
75.5	3.250
76.0	2.935
76.5	2.692
77.0	2.474
77.5	2.280
78.0	2.134
78.5	2.013
79.0	1.916
79.5	1.819
80.0	1.698
80.5	1.601
81.0	1.504
81.5	1.407
82.0	1.285
82.5	1.188

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-850-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION - (Cont.)

83.0	1.116
83.5	1.019
84.0	0.922
84.5	0.825
85.0	0.728
85.5	0.655
86.0	0.558
86.5	0.485
87.0	0.388
87.5	0.315
88.0	0.243
88.5	0.170
89.0	0.097
89.5	0.073
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-L5-850-DIM-UNV-RW-OF-BL_.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-L5-850-DIM-UNV-RW-OF-BL_.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-L5-850-DIM-UNV-RW-OF-BL_.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-L5-850-DIM-UNV-RW-OF-BL_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	159.14	N.A.	40.30
0-30	281.72	N.A.	71.40
0-40	335.66	N.A.	85.00
0-60	378.77	N.A.	95.90
0-80	393.97	N.A.	99.80
0-90	394.80	N.A.	100.00
10-90	351.04	N.A.	88.90
20-40	176.52	N.A.	44.70
20-50	201.43	N.A.	51.00
40-70	54.22	N.A.	13.70
60-80	15.20	N.A.	3.90
70-80	4.08	N.A.	1.00
80-90	0.84	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	394.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.77
10-20	115.38
20-30	122.58
30-40	53.94
40-50	24.92
50-60	18.19
60-70	11.11
70-80	4.08
80-90	0.84
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-L5-850-DIM-UNV-RW-OF-BL_.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	96	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	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	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	70	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	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	51	59	54	51	50

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-850-DIM-UNV-RW-OF-BL_.IES

UGR TABLE - CORRECTED

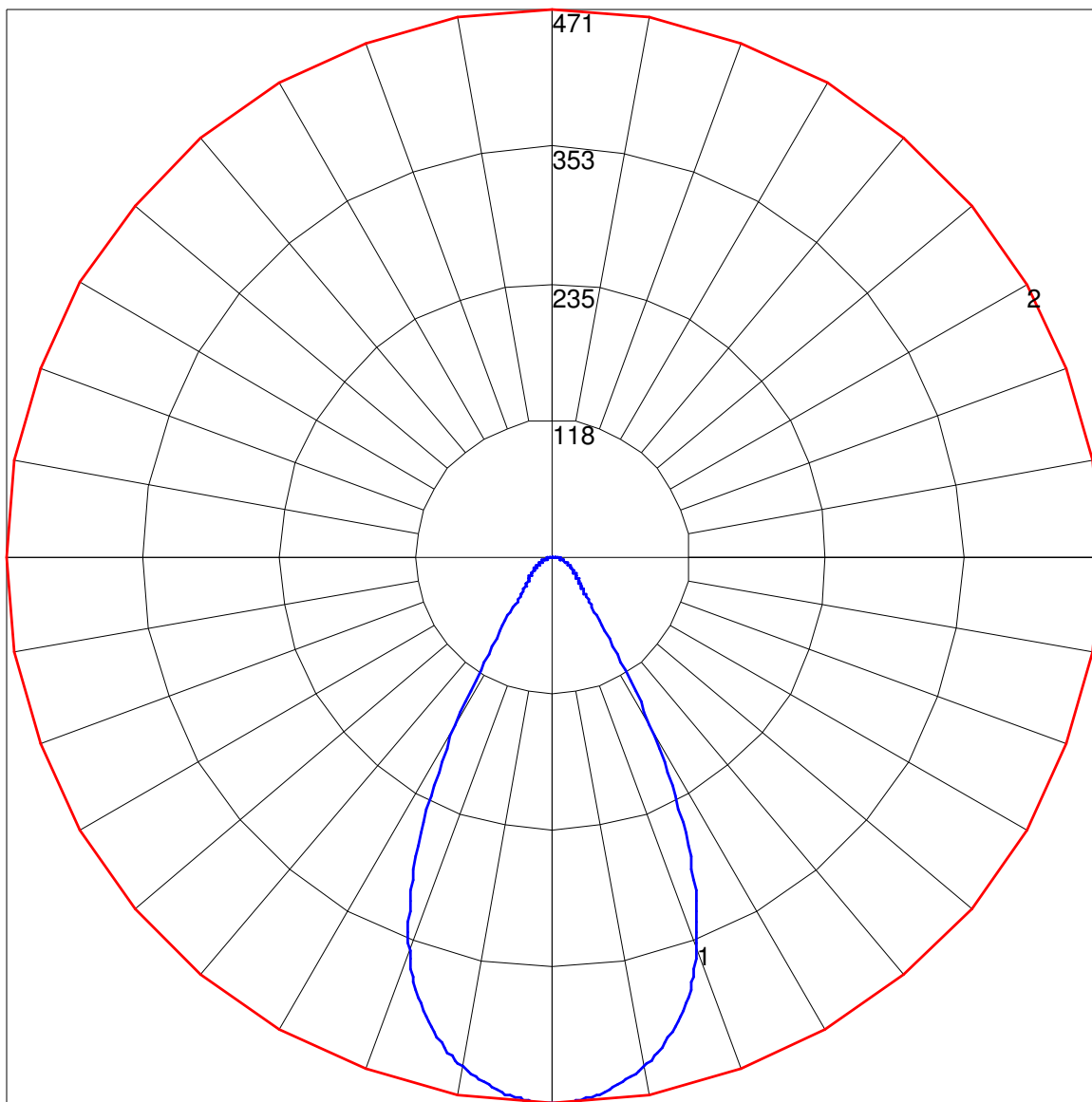
Reflectances

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	15.7	16.8	16.1	17.1	17.4	15.7	16.8	16.1	17.1	17.4
	3H	16.7	17.7	17.1	18.0	18.4	16.7	17.7	17.1	18.0	18.4
	4H	16.9	17.8	17.3	18.2	18.6	16.9	17.8	17.3	18.2	18.6
	6H	17.0	17.8	17.4	18.2	18.6	17.0	17.8	17.4	18.2	18.6
	8H	17.0	17.7	17.4	18.1	18.5	17.0	17.7	17.4	18.1	18.5
	12H	16.9	17.7	17.4	18.1	18.5	16.9	17.7	17.4	18.1	18.5
4H	2H	16.0	16.9	16.4	17.3	17.7	16.0	16.9	16.4	17.3	17.7
	3H	17.2	17.9	17.6	18.4	18.8	17.2	17.9	17.6	18.4	18.8
	4H	17.4	18.1	17.9	18.5	19.0	17.4	18.1	17.9	18.5	19.0
	6H	17.5	18.1	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.0
	8H	17.5	18.0	18.0	18.5	19.0	17.5	18.0	18.0	18.5	19.0
	12H	17.5	18.0	18.0	18.5	18.9	17.5	18.0	18.0	18.5	18.9
8H	4H	17.4	18.0	17.9	18.4	18.9	17.4	18.0	17.9	18.4	18.9
	6H	17.6	18.0	18.1	18.5	19.0	17.6	18.0	18.1	18.5	19.0
	8H	17.6	18.0	18.1	18.5	19.0	17.6	18.0	18.1	18.5	19.0
	12H	17.6	17.9	18.1	18.4	19.0	17.6	17.9	18.1	18.4	19.0
12H	4H	17.4	17.9	17.9	18.3	18.8	17.4	17.9	17.9	18.3	18.8
	6H	17.5	17.9	18.1	18.4	18.9	17.5	17.9	18.1	18.4	18.9
	8H	17.6	17.9	18.1	18.4	19.0	17.6	17.9	18.1	18.4	19.0

Maximum UGR = 19.0

POLAR GRAPH



Maximum Candela = 470.512 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.)