



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2DR-L5-840-DIM-UNV-OM-OF-CS-MWT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]GEN FROM 13131414.06  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 07-19-2021  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
[LUMCAT] 2DR-L5-840-DIM-UNV-OM-OF-CS-MWT  
[LUMINAIRE] Aluminum housing and reflector, no lens enclosure  
[LAMP] One white LED  
[BALLAST] Philips Advance XI036C100V054DSM1  
[OTHER] 24.5 C, 120.025 V, 0.251315 A, 30.0558 W, 0.996408 PF, 59.9699  
[MORE] Hz  
[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	504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.66
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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3475	3475	3475
55	1045	1045	1045
65	347	347	347
75	154	154	154
85	76	76	76

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CANDELA TABULATION

	<u>0</u>
0.0	1137.397
0.5	1137.397
1.0	1137.186
1.5	1136.976
2.0	1136.976
2.5	1135.293
3.0	1132.346
3.5	1129.400
4.0	1125.823
4.5	1122.246
5.0	1118.037
5.5	1112.145
6.0	1104.780
6.5	1093.837
7.0	1081.000
7.5	1067.743
8.0	1053.434
8.5	1037.441
9.0	1020.185
9.5	1002.088
10.0	982.938
10.5	962.947
11.0	942.324
11.5	921.491
12.0	900.448
12.5	878.984
13.0	857.730
13.5	836.686
14.0	816.274
14.5	796.283
15.0	776.502
15.5	756.932
16.0	737.361
16.5	717.791
17.0	698.431
17.5	679.282
18.0	660.343
18.5	641.614
19.0	622.254
19.5	602.684
20.0	582.482
20.5	562.070
21.0	541.237
21.5	519.983
22.0	498.308
22.5	475.581
23.0	452.223
23.5	428.234
24.0	403.402
24.5	378.150
25.0	352.477
25.5	326.383
26.0	300.290
26.5	273.985

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**CANDELA TABULATION - (Cont.)**

27.0	248.102
27.5	222.850
28.0	198.839
28.5	175.755
29.0	154.522
29.5	134.972
30.0	117.338
30.5	101.156
31.0	86.594
31.5	73.568
32.0	62.520
32.5	53.135
33.0	45.391
33.5	38.972
34.0	33.733
34.5	29.377
35.0	26.010
35.5	23.484
36.0	21.548
36.5	20.012
37.0	18.623
37.5	17.361
38.0	16.246
38.5	15.299
39.0	14.436
39.5	13.657
40.0	12.942
40.5	12.289
41.0	11.679
41.5	11.090
42.0	10.543
42.5	10.038
43.0	9.554
43.5	9.091
44.0	8.649
44.5	8.228
45.0	7.765
45.5	7.302
46.0	6.881
46.5	6.481
47.0	6.124
47.5	5.745
48.0	5.408
48.5	5.071
49.0	4.756
49.5	4.461
50.0	4.146
50.5	3.851
51.0	3.556
51.5	3.262
52.0	2.988
52.5	2.778
53.0	2.588
53.5	2.399
54.0	2.210
54.5	2.062

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CANDELA TABULATION - (Cont.)

55.0	1.894
55.5	1.747
56.0	1.620
56.5	1.473
57.0	1.347
57.5	1.263
58.0	1.178
58.5	1.094
59.0	1.010
59.5	0.947
60.0	0.884
60.5	0.842
61.0	0.779
61.5	0.737
62.0	0.694
62.5	0.652
63.0	0.610
63.5	0.568
64.0	0.526
64.5	0.505
65.0	0.463
65.5	0.442
66.0	0.421
66.5	0.400
67.0	0.358
67.5	0.337
68.0	0.316
68.5	0.295
69.0	0.295
69.5	0.274
70.0	0.253
70.5	0.231
71.0	0.210
71.5	0.210
72.0	0.189
72.5	0.189
73.0	0.168
73.5	0.147
74.0	0.147
74.5	0.126
75.0	0.126
75.5	0.126
76.0	0.105
76.5	0.105
77.0	0.105
77.5	0.084
78.0	0.084
78.5	0.084
79.0	0.063
79.5	0.063
80.0	0.063
80.5	0.063
81.0	0.042
81.5	0.042
82.0	0.042
82.5	0.042

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CANDELA TABULATION - (Cont.)

83.0	0.042
83.5	0.021
84.0	0.021
84.5	0.021
85.0	0.021
85.5	0.021
86.0	0.021
86.5	0.021
87.0	0.021
87.5	0.021
88.0	0.021
88.5	0.021
89.0	0.000
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 2DR-L5-840-DIM-UNV-OM-OF-CS-MWT\_.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  
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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	317.27	N.A.	62.90
0-30	472.21	N.A.	93.70
0-40	495.44	N.A.	98.30
0-60	503.37	N.A.	99.90
0-80	504.01	N.A.	100.00
0-90	504.04	N.A.	100.00
10-90	401.58	N.A.	79.70
20-40	178.17	N.A.	35.30
20-50	184.26	N.A.	36.60
40-70	8.43	N.A.	1.70
60-80	0.64	N.A.	0.10
70-80	0.14	N.A.	0.00
80-90	0.03	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	504.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.46
10-20	214.81
20-30	154.94
30-40	23.23
40-50	6.09
50-60	1.85
60-70	0.50
70-80	0.14
80-90	0.03
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

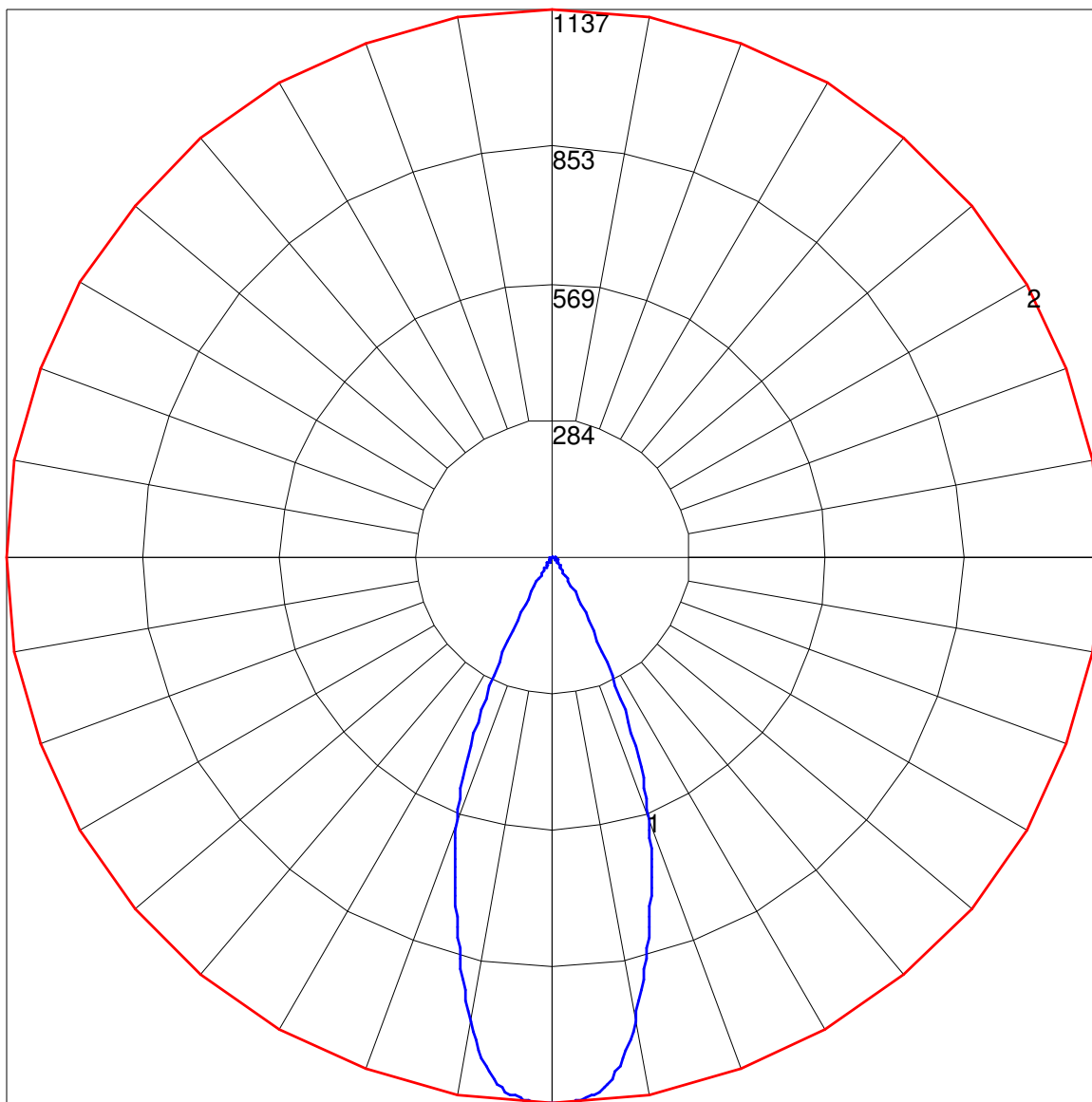
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	68	74	71	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65

POLAR GRAPH



Maximum Candela = 1137.397 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.)