



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L80-830-DIM-UNV-OM-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011609
[TESTLAB] ATAL-LABS
[ISSUE DATE] 08 OCT 2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 8DR-L80-830-DIM-UNV-OM-CS
[LUMINAIRE] 8.5 INCH ROUND, RECESSED LED DOWNLIGHT
[MORE] W/CLEAR SEMI-SPECULAR REFLECTOR
[LAMPCAT] BRIDGELUX VERO COB
[LAMP] 3000K LED MODULE
[_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	7772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	95.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.71 ft (Diameter)
Luminous Width (90-270)	0.71 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	9290	9290	9290
55	310	310	310
65	233	233	233
75	152	152	152
85	226	226	226

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CANDELA TABULATION

	<u>0</u>
0.0	12125.679
2.5	12158.207
5.0	12143.750
7.5	11580.656
10.0	11685.468
12.5	10871.548
15.0	10023.654
17.5	9063.719
20.0	7920.183
22.5	6733.276
25.0	5398.186
27.5	4291.515
30.0	3364.831
32.5	2458.387
35.0	1761.567
37.5	1231.000
40.0	787.175
42.5	458.282
45.0	240.706
47.5	89.632
50.0	22.408
52.5	10.843
55.0	6.506
57.5	5.783
60.0	5.060
62.5	4.337
65.0	3.614
67.5	2.891
70.0	2.169
72.5	2.169
75.0	1.446
77.5	1.446
80.0	0.723
82.5	0.723
85.0	0.723
87.5	0.000
90.0	0.000
92.5	0.000
95.0	0.000
97.5	0.000
100.0	0.000
102.5	0.000
105.0	0.000
107.5	0.000
110.0	0.000
112.5	0.000
115.0	0.000
117.5	0.000
120.0	0.000
122.5	0.000
125.0	0.000
127.5	0.000
130.0	0.000
132.5	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000
137.5	0.000
140.0	0.000
142.5	0.000
145.0	0.000
147.5	0.000
150.0	0.000
152.5	0.000
155.0	0.000
157.5	0.000
160.0	0.000
162.5	0.000
165.0	0.000
167.5	0.000
170.0	0.000
172.5	0.000
175.0	0.000
177.5	0.000
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3893.93	N.A.	50.10
0-30	6383.77	N.A.	82.10
0-40	7534.88	N.A.	97.00
0-60	7766.09	N.A.	99.90
0-80	7771.37	N.A.	100.00
0-90	7771.86	N.A.	100.00
10-90	6642.25	N.A.	85.50
20-40	3640.95	N.A.	46.80
20-50	3864.02	N.A.	49.70
40-70	234.78	N.A.	3.00
60-80	5.28	N.A.	0.10
70-80	1.72	N.A.	0.00
80-90	0.49	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	7771.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1129.61
10-20	2764.32
20-30	2489.84
30-40	1151.11
40-50	223.06
50-60	8.14
60-70	3.57
70-80	1.72
80-90	0.49
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	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58

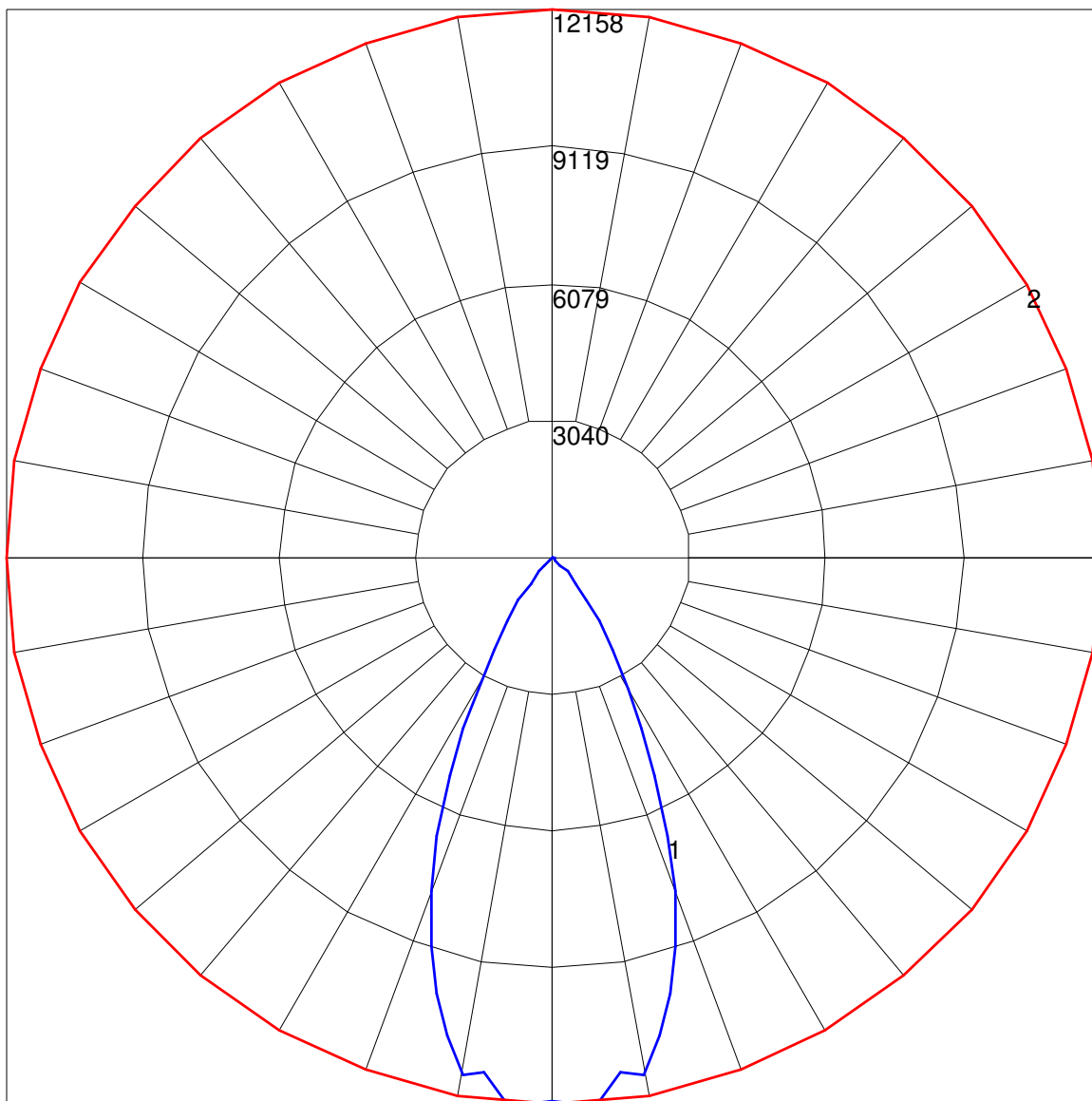
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UGR TABLE - CORRECTED

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	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	3H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	4H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	6H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	8H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	12H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
4H	2H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	3H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	4H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	6H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	8H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	12H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
8H	4H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	6H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	8H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	12H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
12H	4H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	6H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	8H	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2

Maximum UGR = 7.2

POLAR GRAPH



Maximum Candela = 12158.207 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)