



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L60-940-(L50)-EM10W-DIM-UNV-OW-CS_EMER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM ATAL011607
[TESTLAB]ATAL-LABS
[ISSUE DATE]10-11-2021
[MANUFACT]WILLIAMS INDOOR
[OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.
[LUMCAT]8DR-L60-940-(L50)-EM10W-DIM-UNV-OW-C_EM MODE
[LUMINAIRE]LED RECESSED DOWNLIGHT WITH 8.5 INCH WIDE ALZAK TRIM, (1) LED
[MORE]MODULE AND (5) ELECTRONIC DRIVERS.
[LAMPCAT]X1-3500K LED
[LAMP](1) 3500K LED MODULE
[BALLASTCAT]X5-OT40W-PRG1400C-UNV-DIM
[BALLAST](5) OSRAM ELECTRONIC DRIVERS
[OTHER]INPUT WATTS: 180.13, AMPS: 1.507, VAC: 120.02, TEMP: 25.8 C,
[MORE]POWER FACTOR: 0.9984, THDI: 6.15%,
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Indoor, Downlight
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	720
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.96
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1496	1496	1496
55	63	63	63
65	39	39	39
75	28	28	28
85	21	21	21

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CANDELA TABULATION

	<u>0</u>
0.0	714.300
2.5	716.354
5.0	717.812
7.5	694.946
10.0	673.869
12.5	670.290
15.0	646.363
17.5	624.490
20.0	609.179
22.5	593.140
25.0	572.394
27.5	531.234
30.0	454.615
32.5	369.710
35.0	283.546
37.5	201.359
40.0	131.102
42.5	77.813
45.0	38.774
47.5	12.726
50.0	3.181
52.5	2.055
55.0	1.326
57.5	1.060
60.0	0.862
62.5	0.729
65.0	0.597
67.5	0.530
70.0	0.464
72.5	0.331
75.0	0.265
77.5	0.265
80.0	0.199
82.5	0.133
85.0	0.066
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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Zone	Lumens	%Lamp	%Fixt
0-20	248.69	N.A.	34.50
0-30	504.66	N.A.	70.10
0-40	680.85	N.A.	94.60
0-60	718.95	N.A.	99.90
0-80	719.89	N.A.	100.00
0-90	719.97	N.A.	100.00
10-90	653.21	N.A.	90.70
20-40	432.16	N.A.	60.00
20-50	468.82	N.A.	65.10
40-70	38.72	N.A.	5.40
60-80	0.94	N.A.	0.10
70-80	0.31	N.A.	0.00
80-90	0.08	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	719.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.76
10-20	181.94
20-30	255.97
30-40	176.18
40-50	36.67
50-60	1.43
60-70	0.62
70-80	0.31
80-90	0.08
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

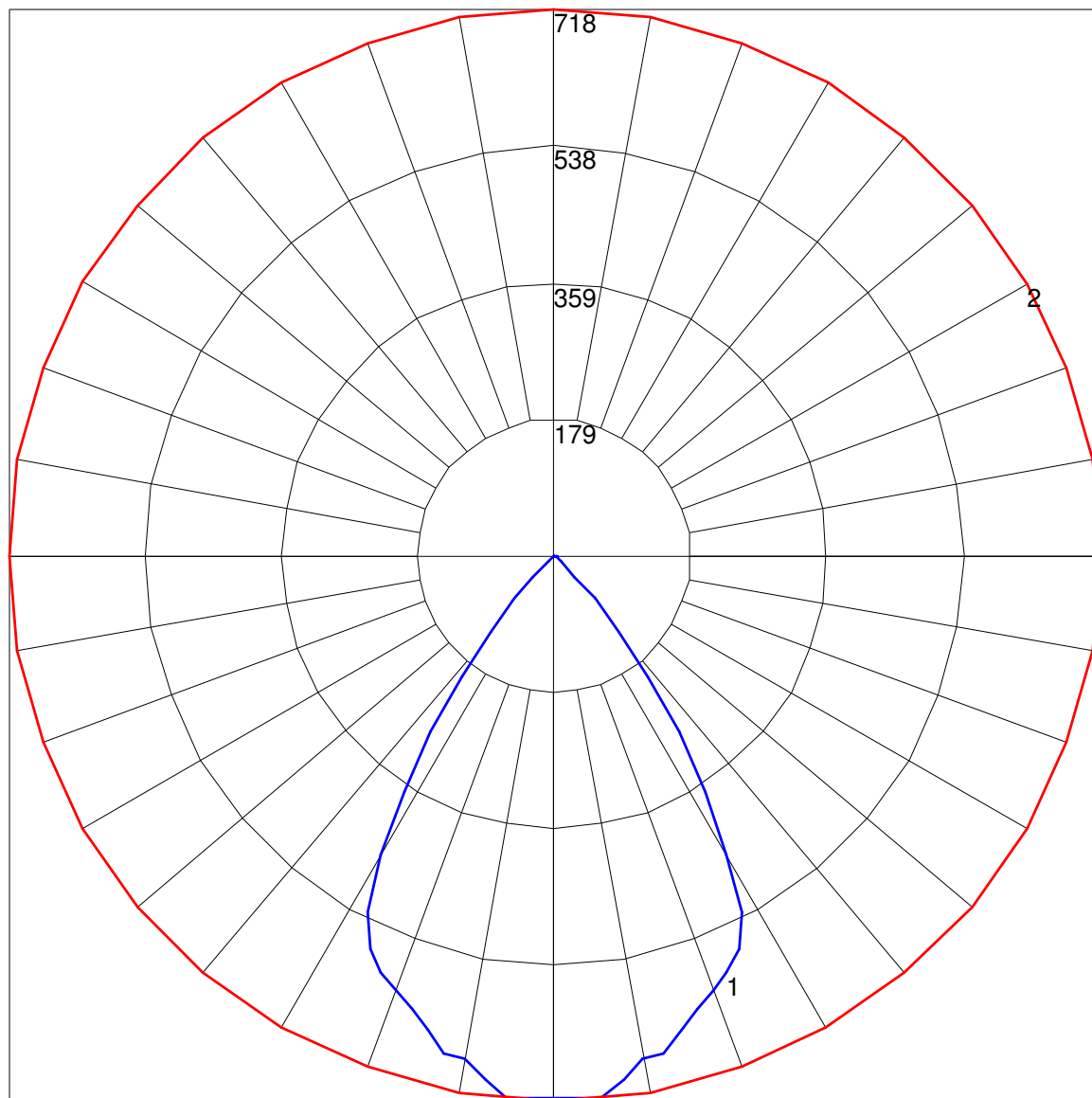
Effective Floor Cavity Reflectance 0.20

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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

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POLAR GRAPH



Maximum Candela = 717.812 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)