

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-840-DIM-UNV-OW-OF-SG\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]GEN FROM ATAL011607  
[TESTLAB]ATAL-LABS  
[ISSUE DATE] 07/12/2023  
[MANUFACTURER]WILLIAMS INDOOR  
[OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMINANCE]8DR-L40-840-DIM-UNV-OW-OF-SG  
[LUMINAIRE]LED RECESSED DOWNLIGHT WITH 8.5 INCH WIDE ALZAK TRIM, (1) LED  
[MODULE]MODULE AND (5) ELECTRONIC DRIVERS.  
[LAMP]X1-3500K LED  
[LAMP](1) 3500K LED MODULE  
[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	3721
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	46.4
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

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7734	7734	7734
55	326	326	326
65	199	199	199
75	144	144	144
85	107	107	107

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CANDELA TABULATION

	<u>0</u>
0.0	3691.985
2.5	3702.605
5.0	3710.141
7.5	3591.951
10.0	3483.011
12.5	3464.511
15.0	3340.840
17.5	3227.789
20.0	3148.653
22.5	3065.748
25.0	2958.521
27.5	2745.779
30.0	2349.756
32.5	1910.911
35.0	1465.557
37.5	1040.758
40.0	677.623
42.5	402.189
45.0	200.409
47.5	65.775
50.0	16.444
52.5	10.620
55.0	6.852
57.5	5.481
60.0	4.454
62.5	3.768
65.0	3.083
67.5	2.741
70.0	2.398
72.5	1.713
75.0	1.370
77.5	1.370
80.0	1.028
82.5	0.685
85.0	0.343
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	1285.42	N.A.	34.50
0-30	2608.45	N.A.	70.10
0-40	3519.09	N.A.	94.60
0-60	3716.01	N.A.	99.90
0-80	3720.86	N.A.	100.00
0-90	3721.28	N.A.	100.00
10-90	3376.23	N.A.	90.70
20-40	2233.67	N.A.	60.00
20-50	2423.2	N.A.	65.10
40-70	200.14	N.A.	5.40
60-80	4.84	N.A.	0.10
70-80	1.63	N.A.	0.00
80-90	0.42	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	3721.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	345.05
10-20	940.37
20-30	1323.03
30-40	910.64
40-50	189.53
50-60	7.39
60-70	3.22
70-80	1.63
80-90	0.42
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	91	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	67	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	66	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

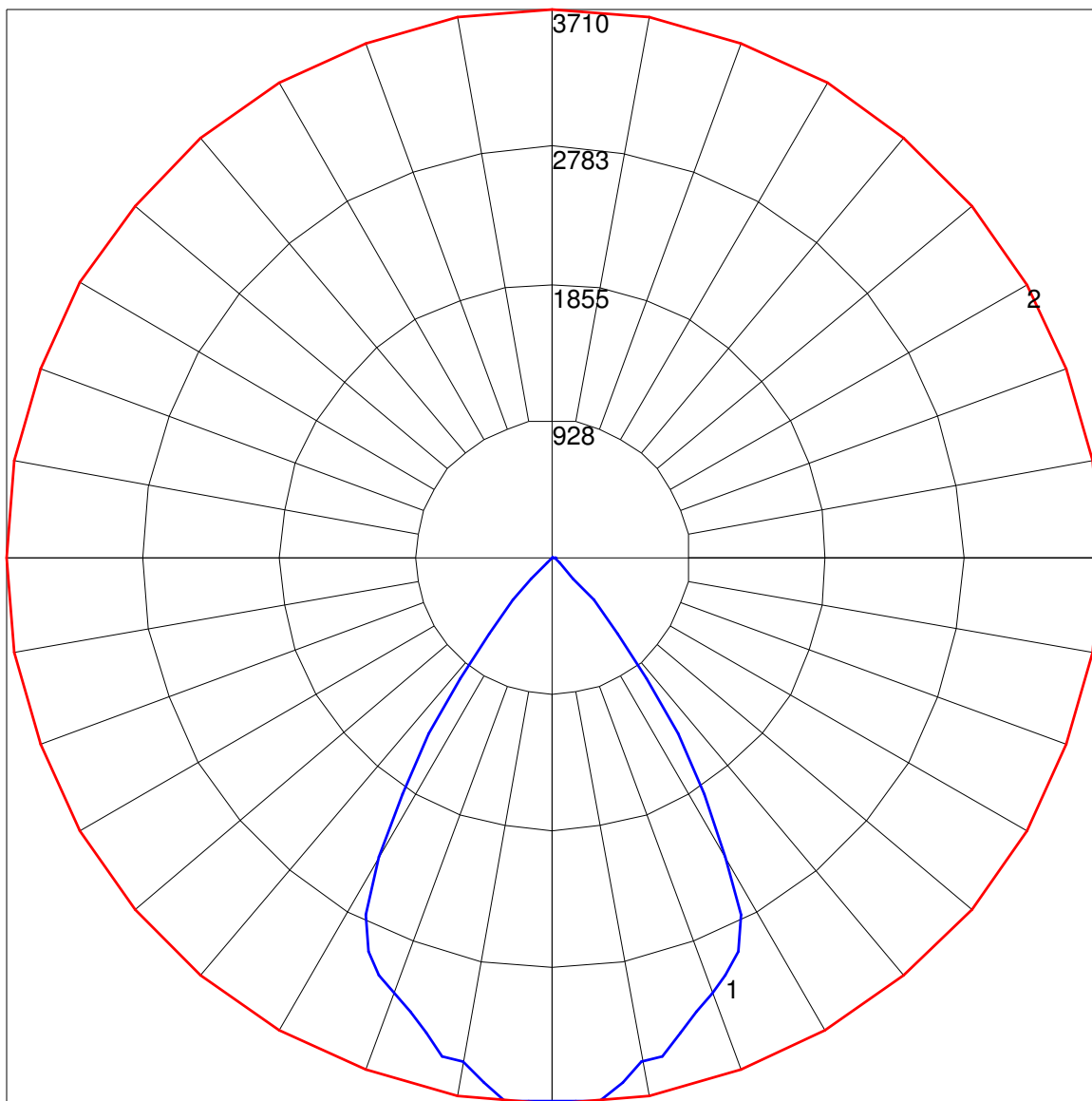
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**UGR TABLE - CORRECTED**

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	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
4H	2H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
8H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
12H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6

Maximum UGR = 4.6

POLAR GRAPH



Maximum Candela = 3710.141 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.)