



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-940-DIM-UNV-OW-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011607  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 10-18-2022  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMCAT] 8DR-L40-940-DIM-UNV-OW-CS  
[LUMINAIRE] RECESSED LED DOWNLIGHT WITH OPEN, CLEAR  
[MORE] SPECULAR TRIM  
[LAMPCAT] 90 CRI 4000K CCT LED COB  
[LAMP] LED  
[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	3364
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
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	6992	6992	6992
55	295	295	295
65	180	180	180
75	131	131	131
85	97	97	97

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 8DR-L40-940-DIM-UNV-OW-CS\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	3337.567
2.5	3347.167
5.0	3353.980
7.5	3247.136
10.0	3148.654
12.5	3131.930
15.0	3020.131
17.5	2917.932
20.0	2846.393
22.5	2771.447
25.0	2674.513
27.5	2482.193
30.0	2124.188
32.5	1727.470
35.0	1324.869
37.5	940.849
40.0	612.574
42.5	363.580
45.0	181.171
47.5	59.461
50.0	14.865
52.5	9.600
55.0	6.194
57.5	4.955
60.0	4.026
62.5	3.407
65.0	2.787
67.5	2.478
70.0	2.168
72.5	1.548
75.0	1.239
77.5	1.239
80.0	0.929
82.5	0.619
85.0	0.310
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 8DR-L40-940-DIM-UNV-OW-CS\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 8DR-L40-940-DIM-UNV-OW-CS\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1162.02	N.A.	34.50
0-30	2358.04	N.A.	70.10
0-40	3181.27	N.A.	94.60
0-60	3359.29	N.A.	99.90
0-80	3363.67	N.A.	100.00
0-90	3364.05	N.A.	100.00
10-90	3052.12	N.A.	90.70
20-40	2019.25	N.A.	60.00
20-50	2190.58	N.A.	65.10
40-70	180.93	N.A.	5.40
60-80	4.38	N.A.	0.10
70-80	1.47	N.A.	0.00
80-90	0.38	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	3364.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	311.92
10-20	850.10
20-30	1196.02
30-40	823.22
40-50	171.34
50-60	6.68
60-70	2.91
70-80	1.47
80-90	0.38
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 : 8DR-L40-940-DIM-UNV-OW-CS\_.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	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

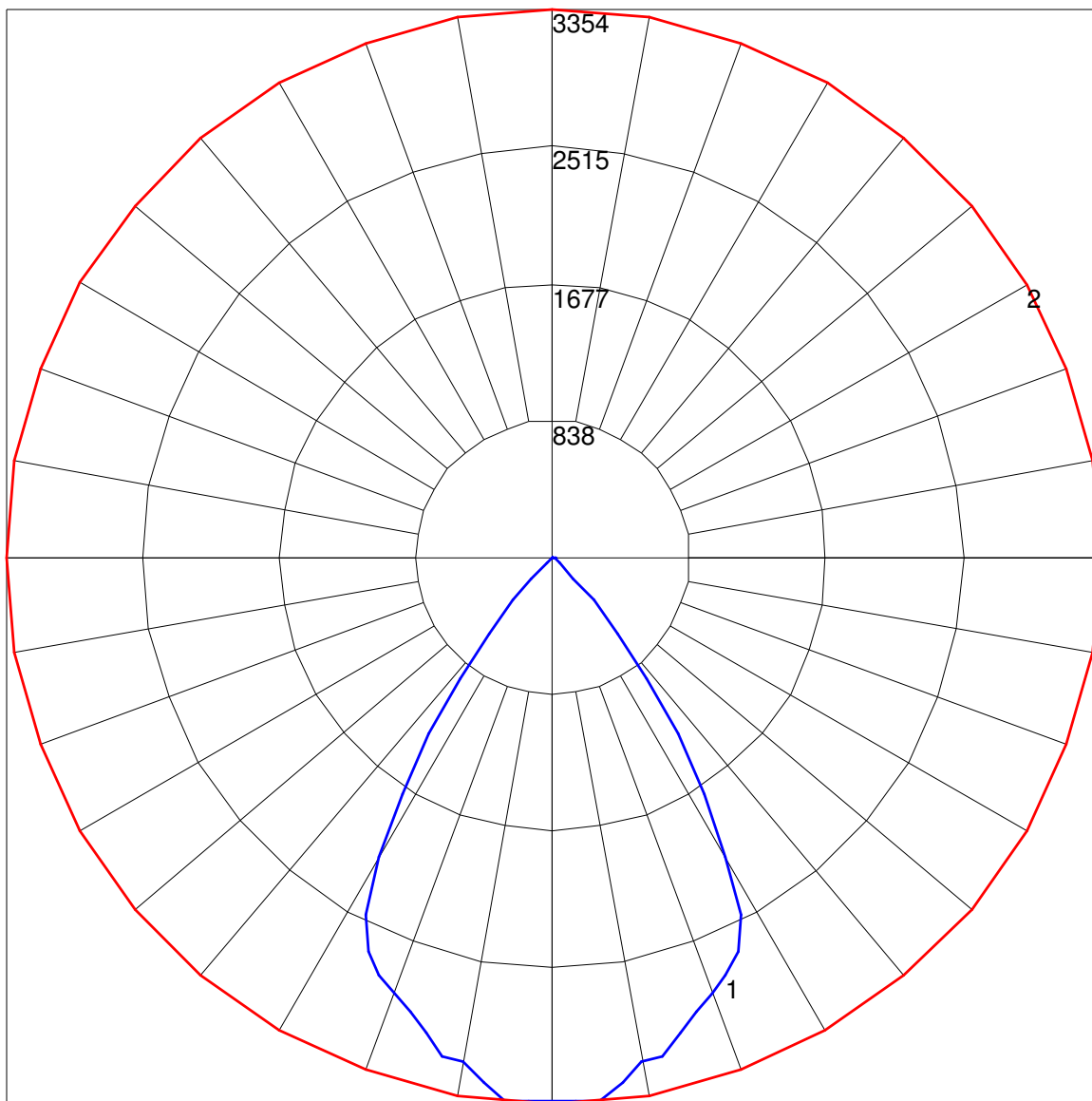
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 8DR-L40-940-DIM-UNV-OW-CS\_.IES**

**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	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	3H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	4H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	6H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	8H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	12H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
4H	2H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	3H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	4H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	6H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	8H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	12H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
8H	4H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	6H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	8H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	12H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
12H	4H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	6H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	8H	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2

Maximum UGR = 4.2

POLAR GRAPH



Maximum Candela = 3353.98 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.)