



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC_EMER MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 IESNA:LM-63-2002[TESTLAB]
 [ISSUEDATE] 01-02-2025
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 8DR-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC
 [LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH
 [MORE]SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) ELECTRONIC DRIVER
 [LAMPCAT] X1-4000K LED
 [LAMP] (1) 4000K LED MODULE
 [MOUNTING]RECESSED
 [ABSOLUTE] TEST ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS
 [MORE] CREATED USING A 1000 WATT, NIST TRACEABLE, OMNIDIRECTIONAL
 [MORE] LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH A TEST
 [MORE] DISTANCE OF 28 FEET

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	870
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
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	2011	2011	2011
55	334	334	334
65	229	229	229
75	178	178	178
85	132	132	132

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC_EMER MODE ONLY.IES****CANDELA TABULATION**

	<u>0</u>
0.0	850.634
2.5	851.734
5.0	855.963
7.5	839.638
10.0	823.314
12.5	812.826
15.0	780.347
17.5	751.335
20.0	727.822
22.5	704.139
25.0	674.959
27.5	623.702
30.0	532.693
32.5	433.141
35.0	333.419
37.5	239.872
40.0	157.406
42.5	95.746
45.0	52.102
47.5	22.837
50.0	11.249
52.5	8.796
55.0	7.020
57.5	5.836
60.0	4.906
62.5	4.144
65.0	3.552
67.5	2.960
70.0	2.453
72.5	2.030
75.0	1.692
77.5	1.353
80.0	1.015
82.5	0.677
85.0	0.423
87.5	0.169
90.0	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	299.95	N.A.	34.50
0-30	602.18	N.A.	69.20
0-40	809.78	N.A.	93.10
0-60	864.22	N.A.	99.30
0-80	869.56	N.A.	99.90
0-90	870.04	N.A.	100.00
10-90	789.67	N.A.	90.80
20-40	509.83	N.A.	58.60
20-50	557.66	N.A.	64.10
40-70	57.98	N.A.	6.70
60-80	5.34	N.A.	0.60
70-80	1.80	N.A.	0.20
80-90	0.48	N.A.	0.10
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	870.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.38
10-20	219.57
20-30	302.24
30-40	207.60
40-50	47.82
50-60	6.61
60-70	3.54
70-80	1.80
80-90	0.48
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-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC_EMER MODE ONLY.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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC_EMER MODE ONLY.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

X=2H	Y=2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

UGR Viewed Endwise

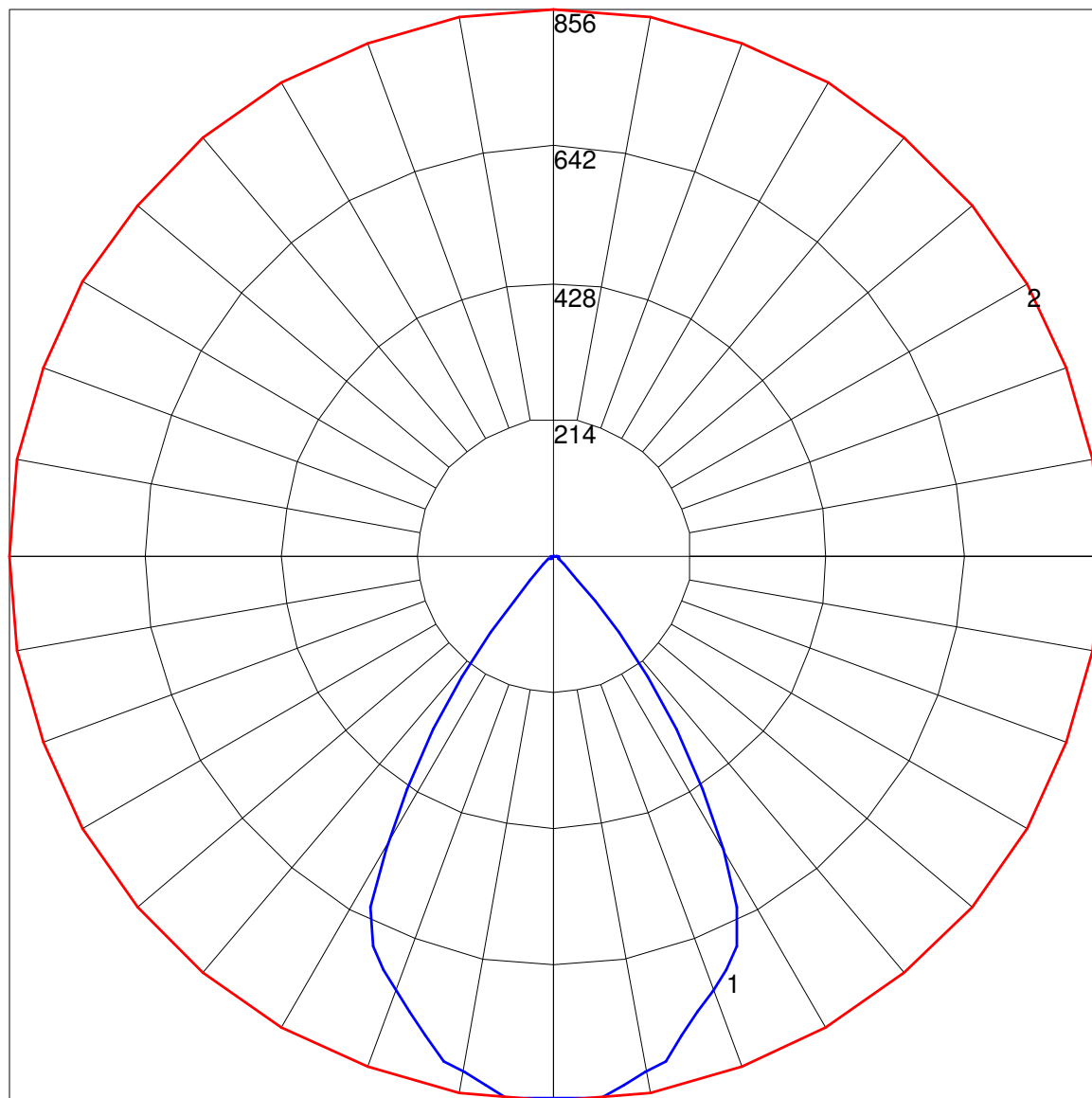
4H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
	6H	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.1
	8H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2
	12H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2
8H	4H	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
	6H	0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.3
	8H	0.0	0.0	0.1	0.4	0.9	0.0	0.0	0.1	0.4
	12H	0.0	0.0	0.2	0.5	1.1	0.0	0.0	0.2	0.5
12H	4H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
	6H	0.0	0.0	0.0	0.2	0.8	0.0	0.0	0.0	0.2
	8H	0.0	0.0	0.1	0.4	1.0	0.0	0.0	0.1	0.4

Maximum UGR = 1.1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-840-EM10W-DIM-277-OW-CS-MWT-WETCC_EMER MODE ONLY.IES

POLAR GRAPH



Maximum Candela = 855.963 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.)