



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-830-EM10W-DIM-277-OW-CS-MWT-WETCC_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
TESTLAB:IESNA:LM-63-2002
[ISSUE DATE] 12-APR-2024
[MANUFACTURER] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMINAIRE] 8DR-L40-830-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
[LAMP] X1-3000K LED
[LAMP] (1) 3000K LED MODULE
[BALLAST] CAT
[BALLAST]
[OTHER]
[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	850
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1965	1965	1965
55	326	326	326
65	224	224	224
75	174	174	174
85	129	129	129

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	<u>0</u>
0.0	831.079
2.5	832.154
5.0	836.285
7.5	820.337
10.0	804.388
12.5	794.141
15.0	762.408
17.5	734.064
20.0	711.091
22.5	687.952
25.0	659.442
27.5	609.365
30.0	520.447
32.5	423.184
35.0	325.755
37.5	234.358
40.0	153.787
42.5	93.545
45.0	50.904
47.5	22.312
50.0	10.991
52.5	8.594
55.0	6.859
57.5	5.702
60.0	4.793
62.5	4.049
65.0	3.471
67.5	2.892
70.0	2.396
72.5	1.983
75.0	1.653
77.5	1.322
80.0	0.992
82.5	0.661
85.0	0.413
87.5	0.165
90.0	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	293.05	N.A.	34.50
0-30	588.34	N.A.	69.20
0-40	791.17	N.A.	93.10
0-60	844.36	N.A.	99.30
0-80	849.57	N.A.	99.90
0-90	850.04	N.A.	100.00
10-90	771.52	N.A.	90.80
20-40	498.11	N.A.	58.60
20-50	544.84	N.A.	64.10
40-70	56.65	N.A.	6.70
60-80	5.21	N.A.	0.60
70-80	1.75	N.A.	0.20
80-90	0.47	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	850.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	78.53
10-20	214.53
20-30	295.29
30-40	202.83
40-50	46.73
50-60	6.46
60-70	3.46
70-80	1.75
80-90	0.47
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	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

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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

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

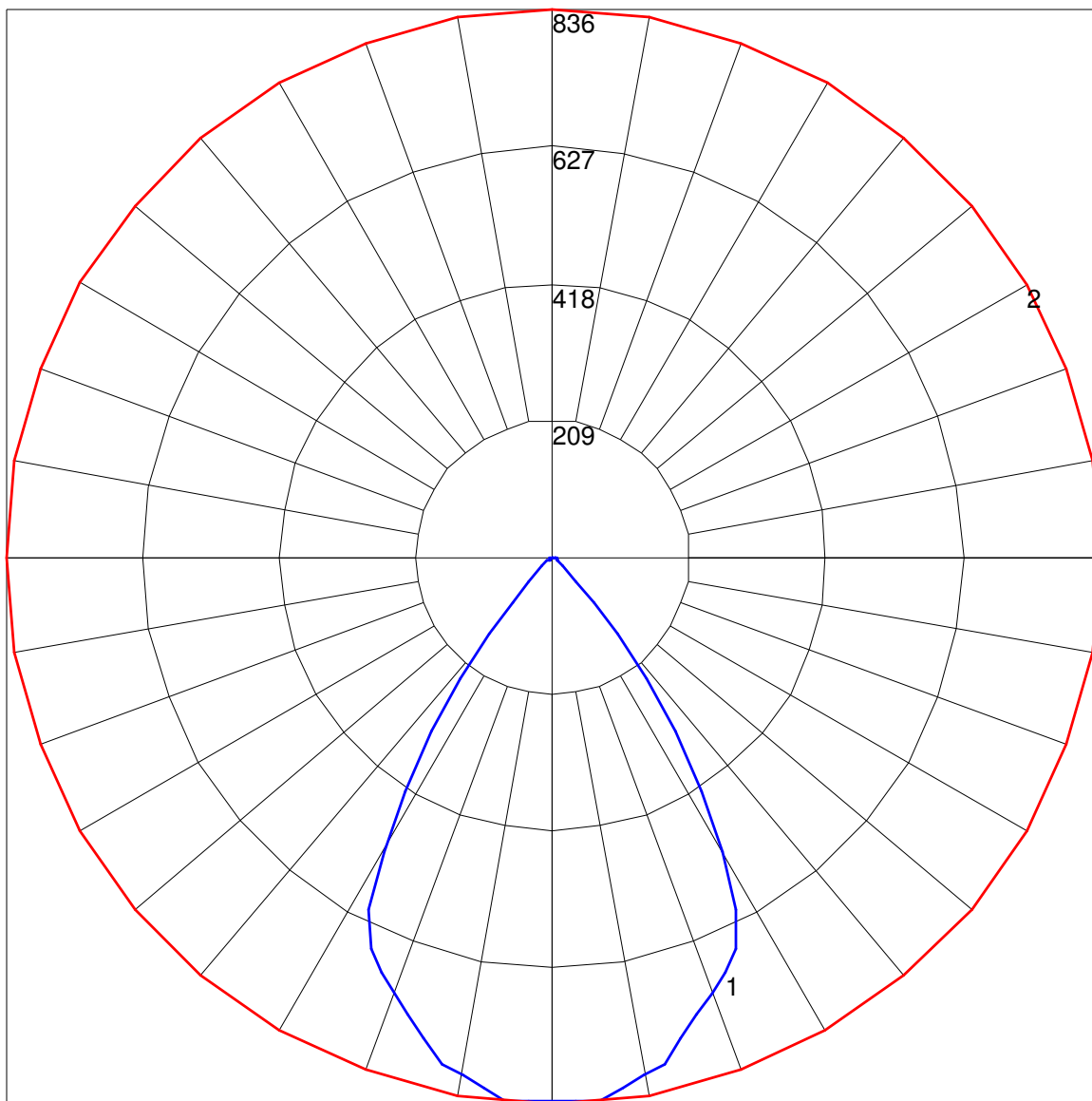
4H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
	6H	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5
	8H	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.6
	12H	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.6
8H	4H	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
	6H	0.0	0.0	0.0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

Maximum UGR = 1.0

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POLAR GRAPH



Maximum Candela = 836.285 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.)