



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-830-DIM-277-OW-CS-MWT-WETCC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
IESNA:LM-63-2002
[TESTLAB]
[ISSUEDATE] 12-APR-2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 8DR-L40-830-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] X1-3000K LED
[LAMP] (1) 3000K LED MODULE
[BALLASTCAT]
[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	3925
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	46.4
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	9071	9071	9071
55	1507	1507	1507
65	1035	1035	1035
75	805	805	805
85	597	597	597

CANDELA TABULATION

	<u>0</u>
0.0	3837.533
2.5	3842.493
5.0	3861.572
7.5	3787.927
10.0	3714.283
12.5	3666.967
15.0	3520.441
17.5	3389.559
20.0	3283.481
22.5	3176.639
25.0	3044.995
27.5	2813.758
30.0	2403.180
32.5	1954.063
35.0	1504.181
37.5	1082.156
40.0	710.117
42.5	431.946
45.0	235.052
47.5	103.026
50.0	50.750
52.5	39.684
55.0	31.671
57.5	26.329
60.0	22.132
62.5	18.697
65.0	16.026
67.5	13.355
70.0	11.066
72.5	9.157
75.0	7.632
77.5	6.105
80.0	4.579
82.5	3.052
85.0	1.908
87.5	0.763
90.0	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L40-830-DIM-277-OW-CS-MWT-WETCC_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1353.18	N.A.	34.50
0-30	2716.68	N.A.	69.20
0-40	3653.24	N.A.	93.10
0-60	3898.84	N.A.	99.30
0-80	3922.92	N.A.	99.90
0-90	3925.1	N.A.	100.00
10-90	3562.49	N.A.	90.80
20-40	2300.06	N.A.	58.60
20-50	2515.81	N.A.	64.10
40-70	261.58	N.A.	6.70
60-80	24.08	N.A.	0.60
70-80	8.10	N.A.	0.20
80-90	2.18	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	3925.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	362.60
10-20	990.58
20-30	1363.5
30-40	936.56
40-50	215.75
50-60	29.84
60-70	15.98
70-80	8.10
80-90	2.18
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

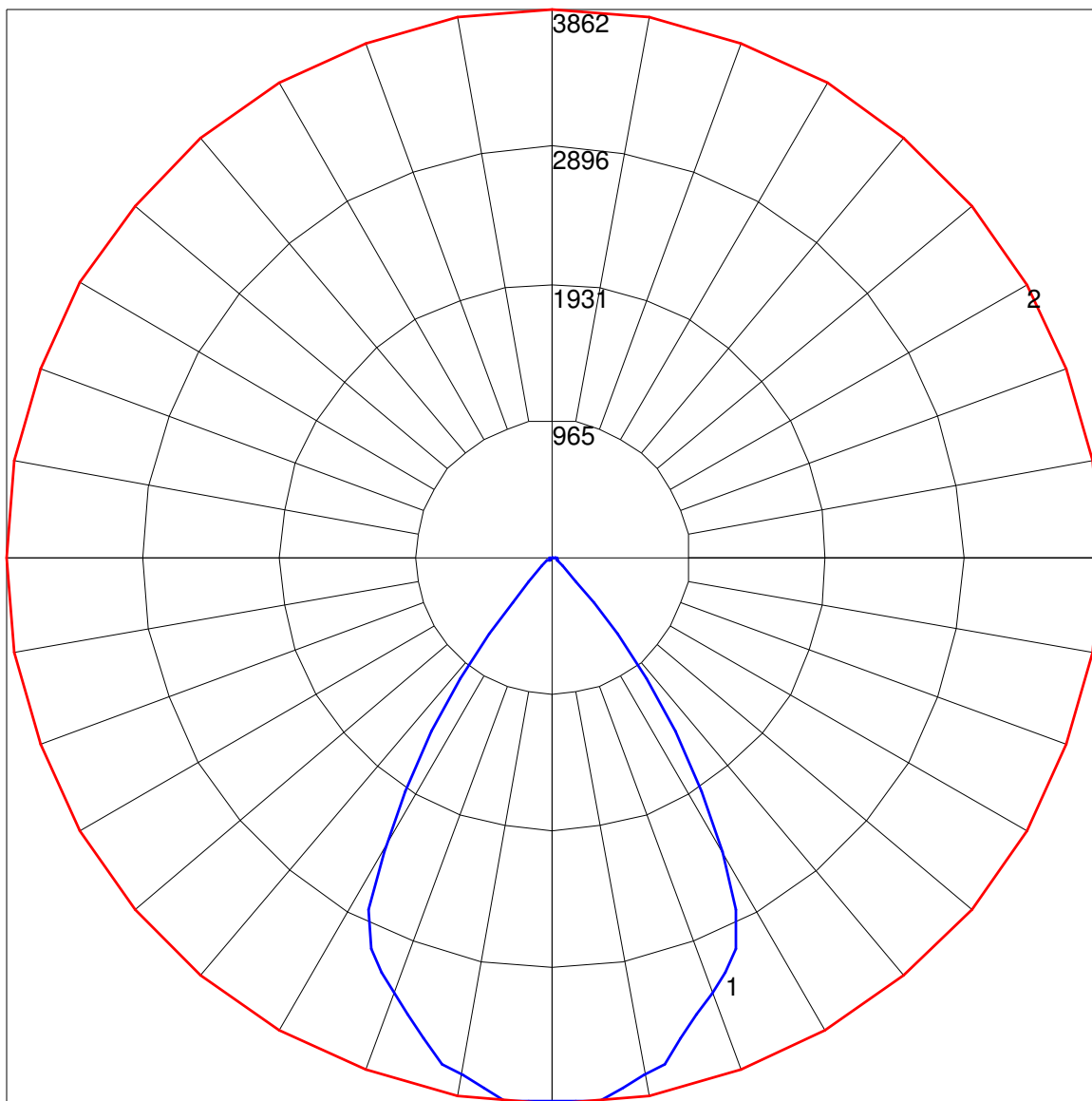
X=2H	Y=2H	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	3H	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	4H	4.8	4.8	4.8	4.8	5.0	4.8	4.8	4.8	5.0
	6H	4.8	4.8	4.8	4.9	5.3	4.8	4.8	4.8	5.3
	8H	4.8	4.8	4.8	4.9	5.3	4.8	4.8	4.8	5.3
	12H	4.8	4.8	4.8	4.9	5.3	4.8	4.8	4.8	5.3

UGR Viewed Endwise

4H	2H	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	3H	4.8	4.8	4.8	4.8	5.0	4.8	4.8	4.8	5.0
	4H	4.8	4.8	4.8	5.1	5.5	4.8	4.8	4.8	5.5
	6H	4.8	5.0	4.9	5.4	5.9	4.8	5.0	4.9	5.9
	8H	4.8	5.0	5.1	5.5	6.0	4.8	5.0	5.1	6.0
	12H	4.8	5.0	5.1	5.5	6.0	4.8	5.0	5.1	6.0
8H	4H	4.8	4.8	4.8	5.1	5.6	4.8	4.8	4.8	5.6
	6H	4.8	5.1	5.2	5.6	6.1	4.8	5.1	5.2	6.1
	8H	4.9	5.2	5.4	5.7	6.2	4.9	5.2	5.4	6.2
	12H	5.0	5.3	5.5	5.8	6.4	5.0	5.3	5.5	6.4
12H	4H	4.8	4.8	4.8	5.0	5.5	4.8	4.8	4.8	5.5
	6H	4.8	5.0	5.2	5.5	6.1	4.8	5.0	5.2	6.1
	8H	4.9	5.2	5.4	5.7	6.3	4.9	5.2	5.4	6.3

Maximum UGR = 6.4

POLAR GRAPH



Maximum Candela = 3861.572 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.)