



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-840-DIM-277-OW-CS-MWT-WETCC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
IESNA:LM-63-2002[TEST][TESTLAB]
[ISSUEDATE] 1-02-2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 8DR-L40-840-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
[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	4045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L40-840-DIM-277-OW-CS-MWT-WETCC_.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9349	9349	9349
55	1553	1553	1553
65	1067	1067	1067
75	829	829	829
85	616	616	616

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	<u>0</u>
0.0	3955.009
2.5	3960.121
5.0	3979.783
7.5	3903.885
10.0	3827.985
12.5	3779.221
15.0	3628.210
17.5	3493.322
20.0	3383.996
22.5	3273.883
25.0	3138.209
27.5	2899.894
30.0	2476.746
32.5	2013.881
35.0	1550.228
37.5	1115.283
40.0	731.855
42.5	445.169
45.0	242.248
47.5	106.180
50.0	52.303
52.5	40.899
55.0	32.641
57.5	27.135
60.0	22.809
62.5	19.269
65.0	16.517
67.5	13.764
70.0	11.404
72.5	9.438
75.0	7.866
77.5	6.292
80.0	4.719
82.5	3.146
85.0	1.967
87.5	0.787
90.0	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1394.6	N.A.	34.50
0-30	2799.84	N.A.	69.20
0-40	3765.07	N.A.	93.10
0-60	4018.19	N.A.	99.30
0-80	4043.01	N.A.	99.90
0-90	4045.25	N.A.	100.00
10-90	3671.55	N.A.	90.80
20-40	2370.47	N.A.	58.60
20-50	2592.83	N.A.	64.10
40-70	269.59	N.A.	6.70
60-80	24.82	N.A.	0.60
70-80	8.35	N.A.	0.20
80-90	2.25	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	4045.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	373.70
10-20	1020.9
20-30	1405.24
30-40	965.23
40-50	222.36
50-60	30.76
60-70	16.47
70-80	8.35
80-90	2.25
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

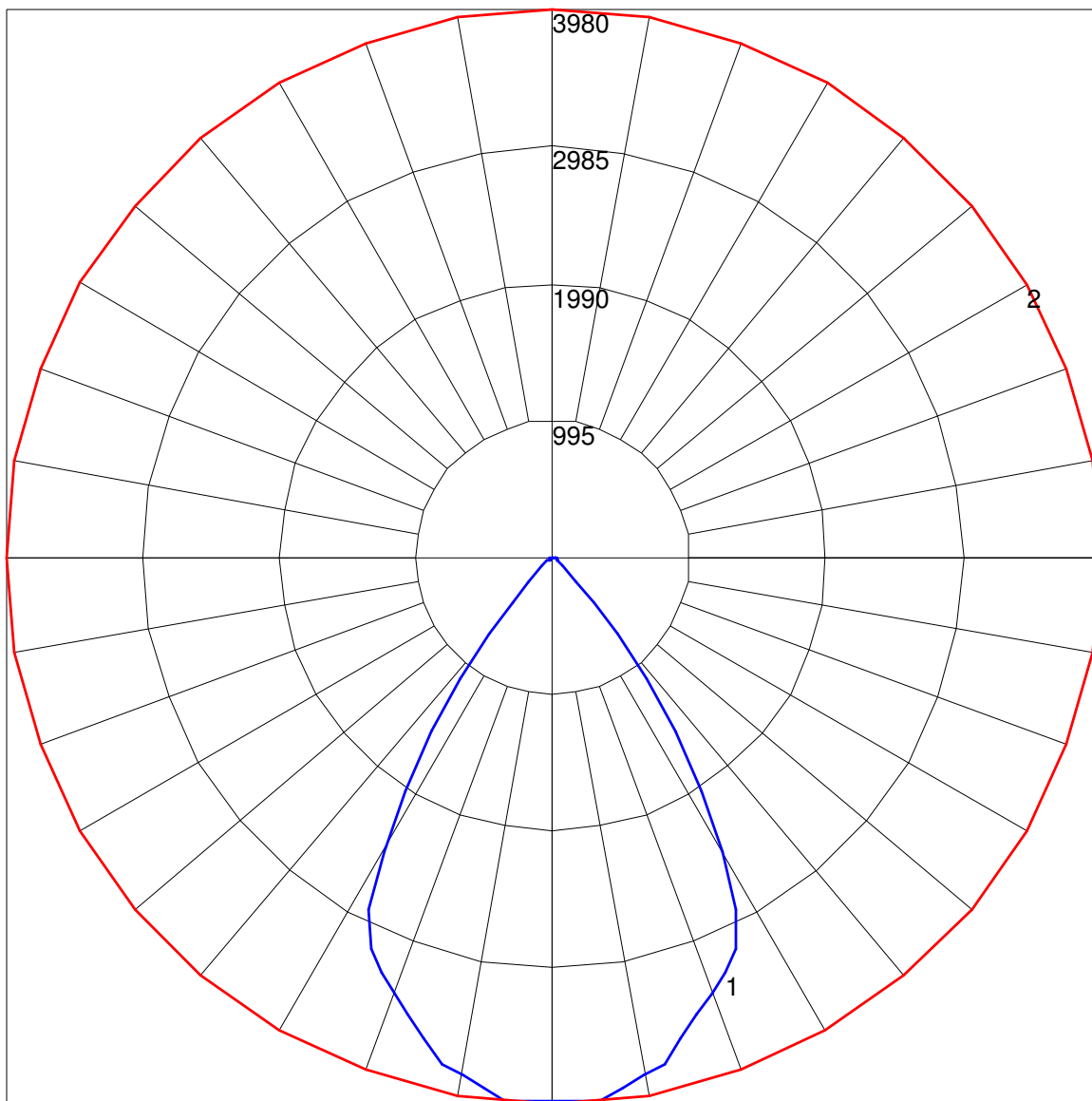
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	3H	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	4H	4.9	4.9	4.9	4.9	5.1	4.9	4.9	4.9	4.9	5.1
	6H	4.9	4.9	4.9	5.0	5.4	4.9	4.9	4.9	5.0	5.4
	8H	4.9	4.9	4.9	5.0	5.4	4.9	4.9	4.9	5.0	5.4
	12H	4.9	4.9	4.9	5.0	5.4	4.9	4.9	4.9	5.0	5.4
4H	2H	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	3H	4.9	4.9	4.9	4.9	5.1	4.9	4.9	4.9	4.9	5.1
	4H	4.9	4.9	4.9	5.2	5.6	4.9	4.9	4.9	5.2	5.6
	6H	4.9	5.1	5.0	5.5	6.0	4.9	5.1	5.0	5.5	6.0
	8H	4.9	5.1	5.2	5.6	6.1	4.9	5.1	5.2	5.6	6.1
	12H	4.9	5.1	5.2	5.6	6.1	4.9	5.1	5.2	5.6	6.1
8H	4H	4.9	4.9	4.9	5.2	5.7	4.9	4.9	4.9	5.2	5.7
	6H	4.9	5.2	5.3	5.7	6.2	4.9	5.2	5.3	5.7	6.2
	8H	5.0	5.3	5.5	5.8	6.3	5.0	5.3	5.5	5.8	6.3
	12H	5.1	5.4	5.6	5.9	6.5	5.1	5.4	5.6	5.9	6.5
12H	4H	4.9	4.9	4.9	5.1	5.6	4.9	4.9	4.9	5.1	5.6
	6H	4.9	5.1	5.4	5.6	6.2	4.9	5.1	5.4	5.6	6.2
	8H	5.0	5.3	5.5	5.8	6.4	5.0	5.3	5.5	5.8	6.4

Maximum UGR = 6.5

POLAR GRAPH



Maximum Candela = 3979.783 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.)