



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L10-9TC-OM-CS-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 18-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMEN CATEGORY] 8DR-TL-L10/9TC-OM-CS-DIM-UNV 4000k

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) ELECTRONIC DRIVER

[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

[ABSOLUTE NOTE] DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[ABSOLUTE LUMENS] 10287

[CONVERT] Photometric web converted from original test data

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1074
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	27.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.78
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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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1693	1693	1693
55	270	270	270
65	187	187	187
75	124	124	124
85	67	67	67

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CANDELA TABULATION

	<u>0</u>
0.0	1533.243
2.5	1540.965
5.0	1537.855
7.5	1489.700
10.0	1483.587
12.5	1394.355
15.0	1292.789
17.5	1176.960
20.0	1042.897
22.5	899.397
25.0	750.212
27.5	624.301
30.0	496.031
32.5	376.661
35.0	279.922
37.5	197.662
40.0	128.592
42.5	77.971
45.0	43.865
47.5	20.270
50.0	9.545
52.5	7.078
55.0	5.684
57.5	4.826
60.0	4.076
62.5	3.432
65.0	2.896
67.5	2.360
70.0	1.931
72.5	1.609
75.0	1.180
77.5	0.858
80.0	0.536
82.5	0.429
85.0	0.215
87.5	0.107
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.00	N.A.	46.60
0-30	845.74	N.A.	78.70
0-40	1024.49	N.A.	95.40
0-60	1069.56	N.A.	99.60
0-80	1073.73	N.A.	100.00
0-90	1074.01	N.A.	100.00
10-90	930.04	N.A.	86.60
20-40	523.49	N.A.	48.70
20-50	563.13	N.A.	52.40
40-70	47.96	N.A.	4.50
60-80	4.17	N.A.	0.40
70-80	1.29	N.A.	0.10
80-90	0.28	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	1074.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.97
10-20	357.03
20-30	344.74
30-40	178.75
40-50	39.64
50-60	5.43
60-70	2.89
70-80	1.29
80-90	0.28
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	22	22	22	22	21	21	21	21	20	20	20	19	19	19	18	18	18	18
1	21	20	20	19	20	20	19	19	19	19	18	18	18	18	18	18	17	17
2	20	19	18	18	19	19	18	17	18	17	17	17	17	17	17	17	16	16
3	19	18	17	16	18	17	17	16	17	16	16	17	16	16	16	16	15	15
4	18	17	16	15	18	16	16	15	16	15	15	16	15	15	15	15	14	14
5	17	16	15	14	17	15	15	14	15	14	14	15	14	14	15	14	14	13
6	16	15	14	13	16	15	14	13	14	14	13	14	13	13	14	13	13	12
7	16	14	13	12	15	14	13	12	14	13	12	13	13	12	13	13	12	12
8	15	13	12	12	15	13	12	12	13	12	11	13	12	11	13	12	11	11
9	14	13	12	11	14	13	12	11	12	11	11	12	11	11	12	11	11	11
10	14	12	11	10	13	12	11	10	12	11	10	12	11	10	11	11	10	10

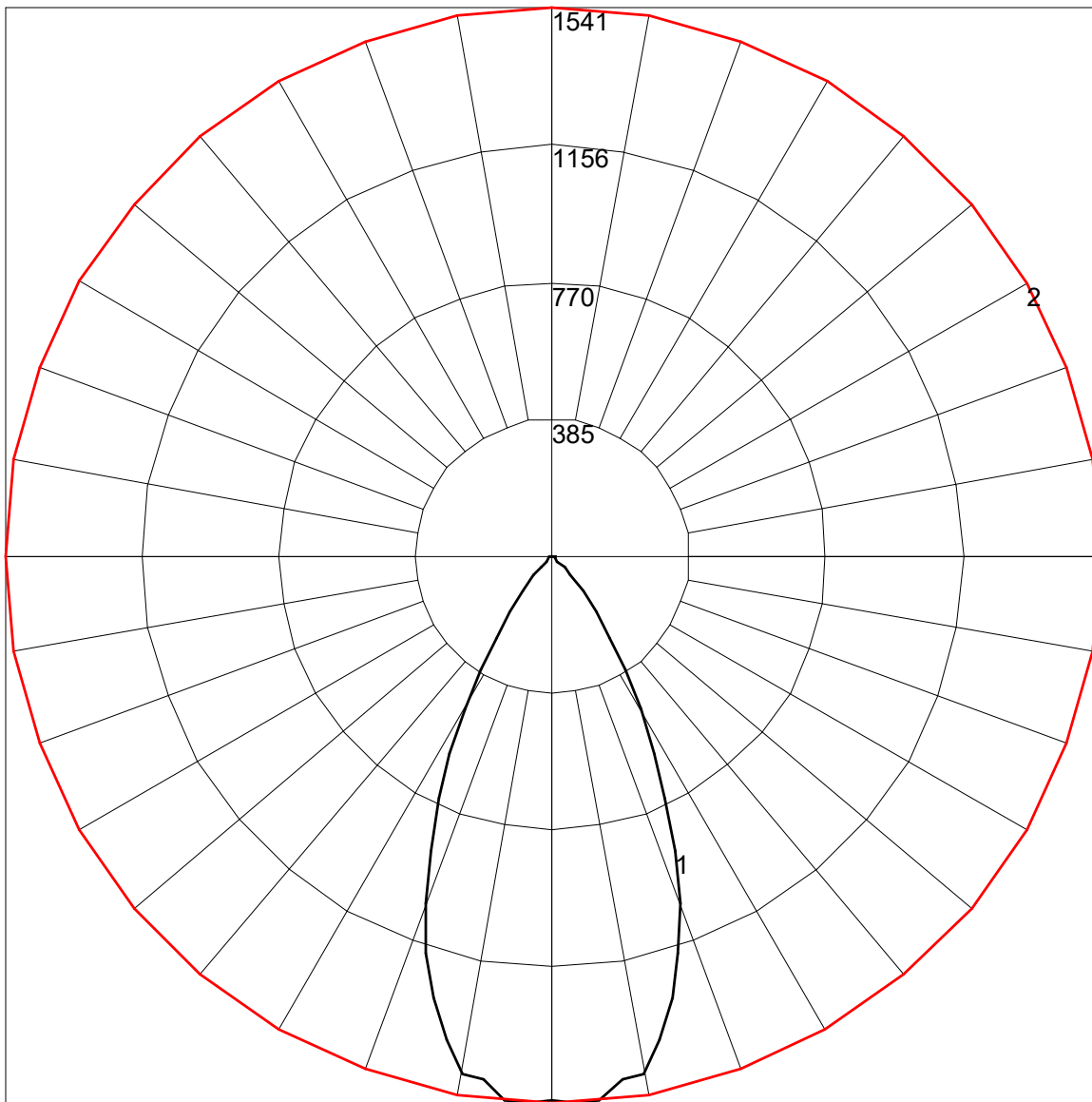
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UGR TABLE - CORRECTED

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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
4H	2H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
8H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

Maximum UGR = 6.2

POLAR GRAPH



Maximum Candela = 1540.965 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)