



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L10-8TW-OM-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

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

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) TUNABLE WHITE 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	1028
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	14.2
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	1620	1620	1620
55	259	259	259
65	179	179	179
75	119	119	119
85	64	64	64

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CANDELA TABULATION

	<u>0</u>
0.0	1467.574
2.5	1474.965
5.0	1471.988
7.5	1425.895
10.0	1420.044
12.5	1334.634
15.0	1237.419
17.5	1126.550
20.0	998.229
22.5	860.875
25.0	718.080
27.5	597.562
30.0	474.785
32.5	360.529
35.0	267.933
37.5	189.196
40.0	123.085
42.5	74.631
45.0	41.986
47.5	19.402
50.0	9.136
52.5	6.775
55.0	5.441
57.5	4.620
60.0	3.901
62.5	3.285
65.0	2.772
67.5	2.259
70.0	1.848
72.5	1.540
75.0	1.129
77.5	0.821
80.0	0.513
82.5	0.411
85.0	0.205
87.5	0.103
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	479.54	N.A.	46.60
0-30	809.52	N.A.	78.70
0-40	980.61	N.A.	95.40
0-60	1023.75	N.A.	99.60
0-80	1027.74	N.A.	100.00
0-90	1028.01	N.A.	100.00
10-90	890.21	N.A.	86.60
20-40	501.07	N.A.	48.70
20-50	539.01	N.A.	52.40
40-70	45.90	N.A.	4.50
60-80	3.99	N.A.	0.40
70-80	1.23	N.A.	0.10
80-90	0.27	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	1028.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.80
10-20	341.74
20-30	329.98
30-40	171.10
40-50	37.94
50-60	5.20
60-70	2.76
70-80	1.23
80-90	0.27
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	21	21	21	21	20	20	20	20	19	19	19	18	18	18	18	18	18	17
1	20	19	19	18	19	19	19	18	18	18	18	18	17	17	17	17	17	16
2	19	18	17	17	18	18	17	17	17	17	16	17	16	16	16	16	16	15
3	18	17	16	15	18	17	16	15	16	16	15	16	15	15	15	15	15	14
4	17	16	15	14	17	16	15	14	15	15	14	15	14	14	15	14	14	13
5	16	15	14	13	16	15	14	13	15	14	13	14	14	13	14	13	13	13
6	16	14	13	12	15	14	13	12	14	13	12	14	13	12	13	13	12	12
7	15	13	12	12	15	13	12	12	13	12	12	13	12	12	13	12	12	11
8	14	13	12	11	14	13	12	11	12	12	11	12	11	11	12	11	11	11
9	14	12	11	10	13	12	11	10	12	11	10	12	11	10	12	11	10	10
10	13	11	11	10	13	11	10	10	11	10	10	11	10	10	11	10	10	10

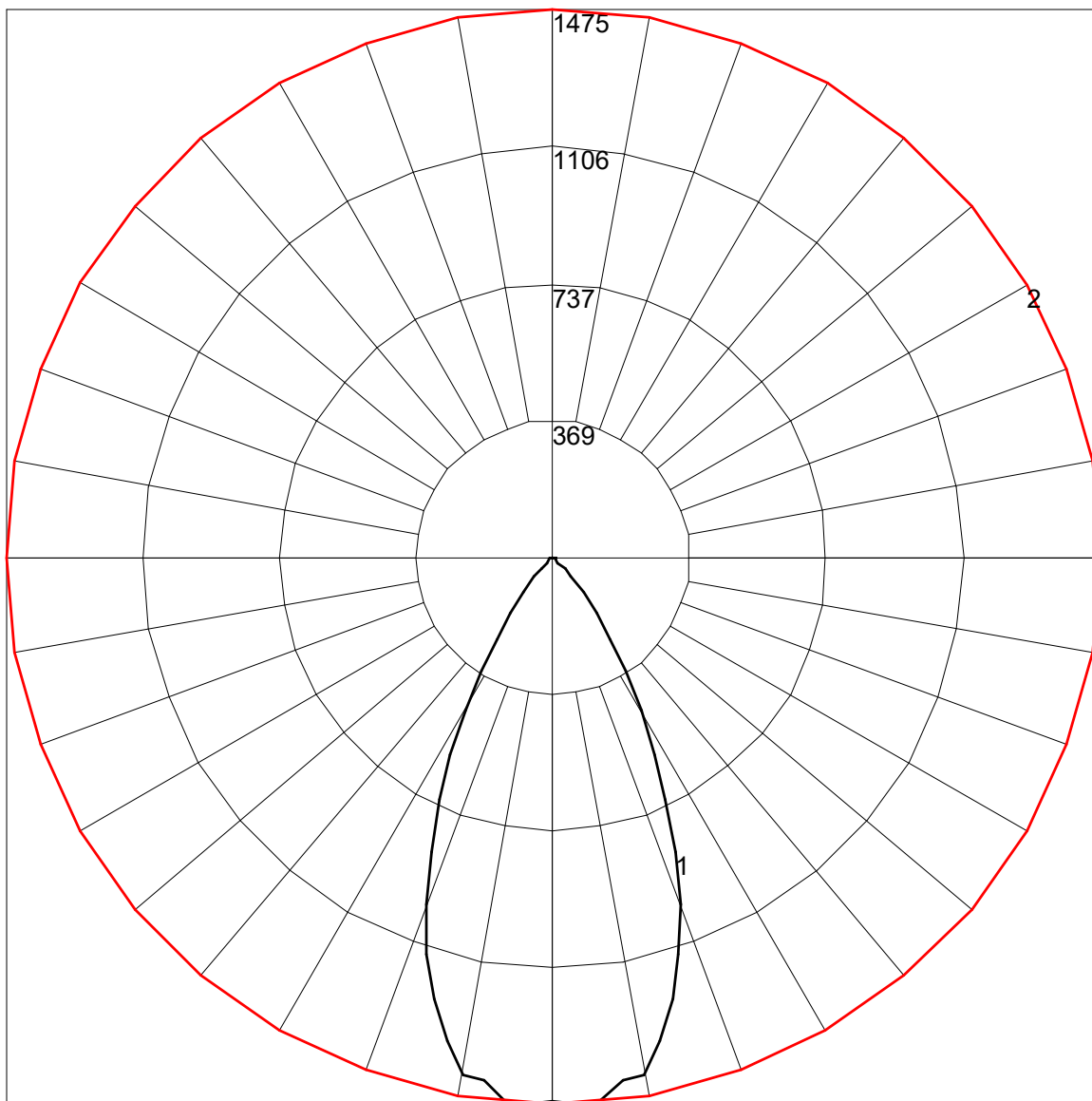
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UGR TABLE - CORRECTED

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 = 1474.965 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.)