



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L11-9DW-OM-CS-DIM-UNV 3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 21-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMEN CATEGORY] 8DR-TL-L11/9DW-OM-CS-DIM-UNV

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

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

[MORE] 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

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

[ ABSOLUTE LUMENS] 10287

[ CONVERT] Photometric web converted from original test data

[ CONVERT] Photometric web converted from original test data

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1117
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	23.2
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	1761	1761	1761
55	281	281	281
65	194	194	194
75	129	129	129
85	70	70	70

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CANDELA TABULATION

	<u>0</u>
0.0	1594.630
2.5	1602.662
5.0	1599.427
7.5	1549.344
10.0	1542.986
12.5	1450.181
15.0	1344.549
17.5	1224.082
20.0	1084.652
22.5	935.407
25.0	780.249
27.5	649.296
30.0	515.890
32.5	391.742
35.0	291.129
37.5	205.575
40.0	133.741
42.5	81.092
45.0	45.621
47.5	21.082
50.0	9.927
52.5	7.362
55.0	5.912
57.5	5.019
60.0	4.239
62.5	3.569
65.0	3.012
67.5	2.454
70.0	2.008
72.5	1.673
75.0	1.227
77.5	0.892
80.0	0.558
82.5	0.446
85.0	0.223
87.5	0.112
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	521.06	N.A.	46.60
0-30	879.60	N.A.	78.70
0-40	1065.51	N.A.	95.40
0-60	1112.38	N.A.	99.60
0-80	1116.72	N.A.	100.00
0-90	1117.01	N.A.	100.00
10-90	967.28	N.A.	86.60
20-40	544.45	N.A.	48.70
20-50	585.68	N.A.	52.40
40-70	49.87	N.A.	4.50
60-80	4.34	N.A.	0.40
70-80	1.34	N.A.	0.10
80-90	0.29	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	1117.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.73
10-20	371.33
20-30	358.54
30-40	185.91
40-50	41.23
50-60	5.65
60-70	3.00
70-80	1.34
80-90	0.29
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62	61
1	70	68	66	65	68	67	65	64	64	63	62	62	61	60	60	59	59	58
2	66	64	61	59	65	63	60	59	61	59	57	59	57	56	57	56	55	54
3	63	60	57	55	62	59	56	54	57	55	53	56	54	52	54	53	52	51
4	60	56	53	51	59	55	52	50	54	52	50	53	51	49	52	50	49	48
5	58	53	50	47	57	52	49	47	51	49	46	50	48	46	49	47	46	45
6	55	50	47	44	54	49	46	44	49	46	44	48	45	43	47	45	43	42
7	53	47	44	41	52	47	44	41	46	43	41	45	43	41	45	42	41	40
8	50	45	41	39	50	44	41	39	44	41	39	43	41	39	43	40	38	38
9	48	43	39	37	47	42	39	37	42	39	37	41	39	37	41	38	36	36
10	46	40	37	35	45	40	37	35	40	37	35	39	37	35	39	36	35	34

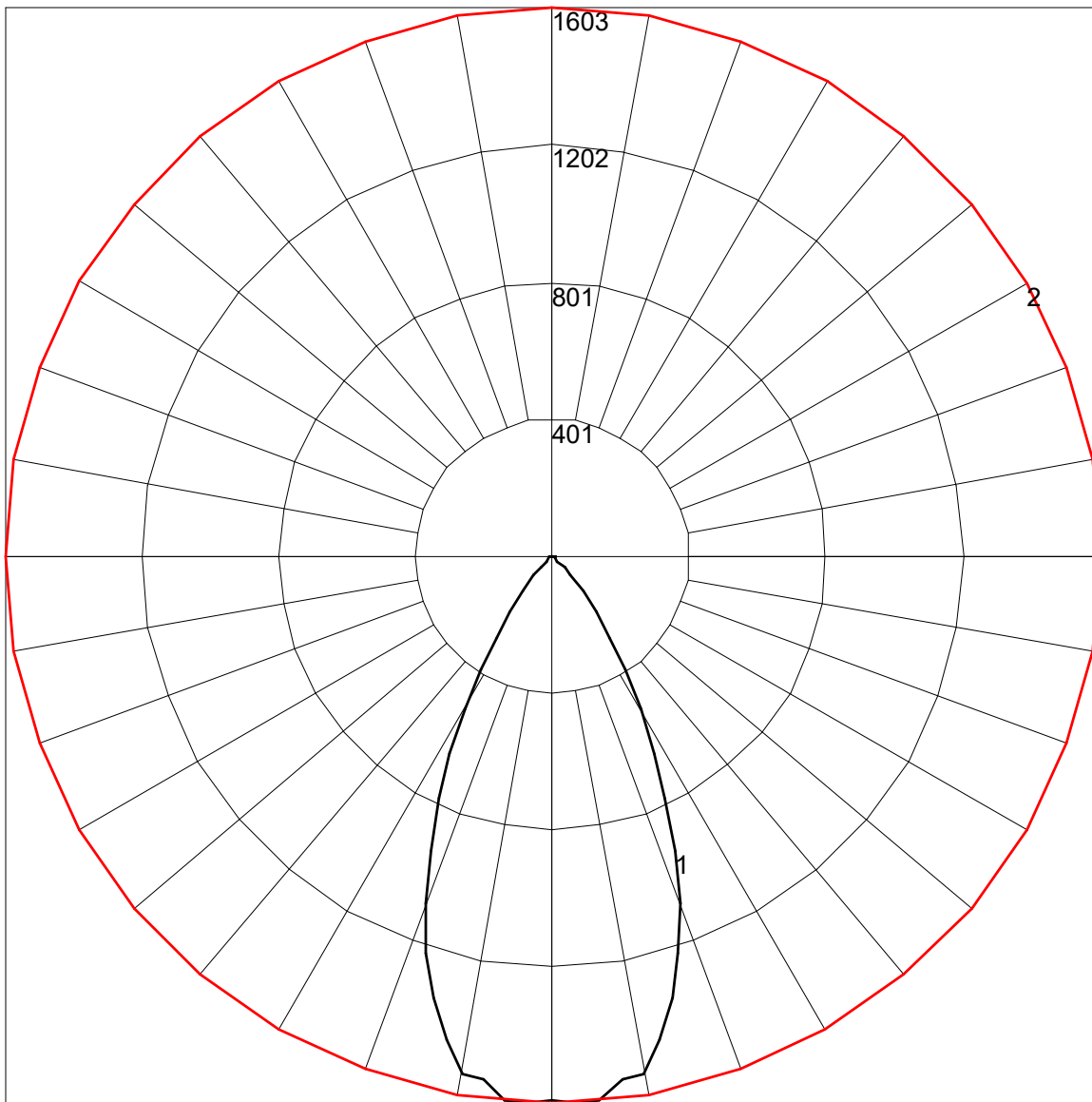
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**UGR TABLE - CORRECTED**

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	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	3H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	12H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
4H	2H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	3H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	12H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
8H	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	12H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12H	4H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	6H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	8H	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

Maximum UGR = 2.1

POLAR GRAPH



Maximum Candela = 1602.662 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.)