



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 21-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L11/9DW-ON-CS-DIM-UNV 3000k

[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

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

[ ABSOLUTELUMENS] 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	1023
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	23.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.68
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	1704	1704	1704
55	153	153	153
65	97	97	97
75	61	61	61
85	36	36	36

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CANDELA TABULATION

	<u>0</u>
0.0	1818.589
2.5	1838.019
5.0	1793.870
7.5	1726.729
10.0	1577.038
12.5	1412.861
15.0	1239.832
17.5	1065.768
20.0	881.012
22.5	736.840
25.0	633.482
27.5	548.980
30.0	463.098
32.5	374.456
35.0	286.734
37.5	203.036
40.0	130.376
42.5	78.984
45.0	44.148
47.5	18.970
50.0	6.323
52.5	3.909
55.0	3.219
57.5	2.759
60.0	2.299
62.5	1.839
65.0	1.495
67.5	1.150
70.0	0.920
72.5	0.690
75.0	0.575
77.5	0.460
80.0	0.345
82.5	0.230
85.0	0.115
87.5	0.115
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	505.49	N.A.	49.40
0-30	799.92	N.A.	78.20
0-40	978.12	N.A.	95.60
0-60	1020.73	N.A.	99.80
0-80	1022.85	N.A.	100.00
0-90	1023.02	N.A.	100.00
10-90	858.11	N.A.	83.90
20-40	472.63	N.A.	46.20
20-50	512.08	N.A.	50.10
40-70	44.11	N.A.	4.30
60-80	2.12	N.A.	0.20
70-80	0.62	N.A.	0.10
80-90	0.17	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	1023.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	164.91
10-20	340.58
20-30	294.43
30-40	178.21
40-50	39.45
50-60	3.16
60-70	1.50
70-80	0.62
80-90	0.17
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	67	65	68	67	65	64	64	63	62	62	61	60	60	59	59	58
2	66	64	61	60	65	63	61	59	61	59	58	59	58	56	57	56	55	54
3	63	60	57	55	62	59	57	54	57	55	54	56	54	53	55	53	52	51
4	61	56	53	51	60	56	53	51	54	52	50	53	51	50	52	50	49	48
5	58	53	50	48	57	53	50	47	52	49	47	51	48	47	50	48	46	45
6	55	50	47	45	55	50	47	45	49	46	44	48	46	44	47	45	44	43
7	53	48	44	42	52	47	44	42	47	44	42	46	43	42	45	43	41	41
8	51	45	42	40	50	45	42	40	44	42	40	44	41	39	43	41	39	38
9	49	43	40	38	48	43	40	38	42	40	38	42	39	37	41	39	37	37
10	47	41	38	36	46	41	38	36	40	38	36	40	37	36	40	37	35	35

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**UGR TABLE - CORRECTED**

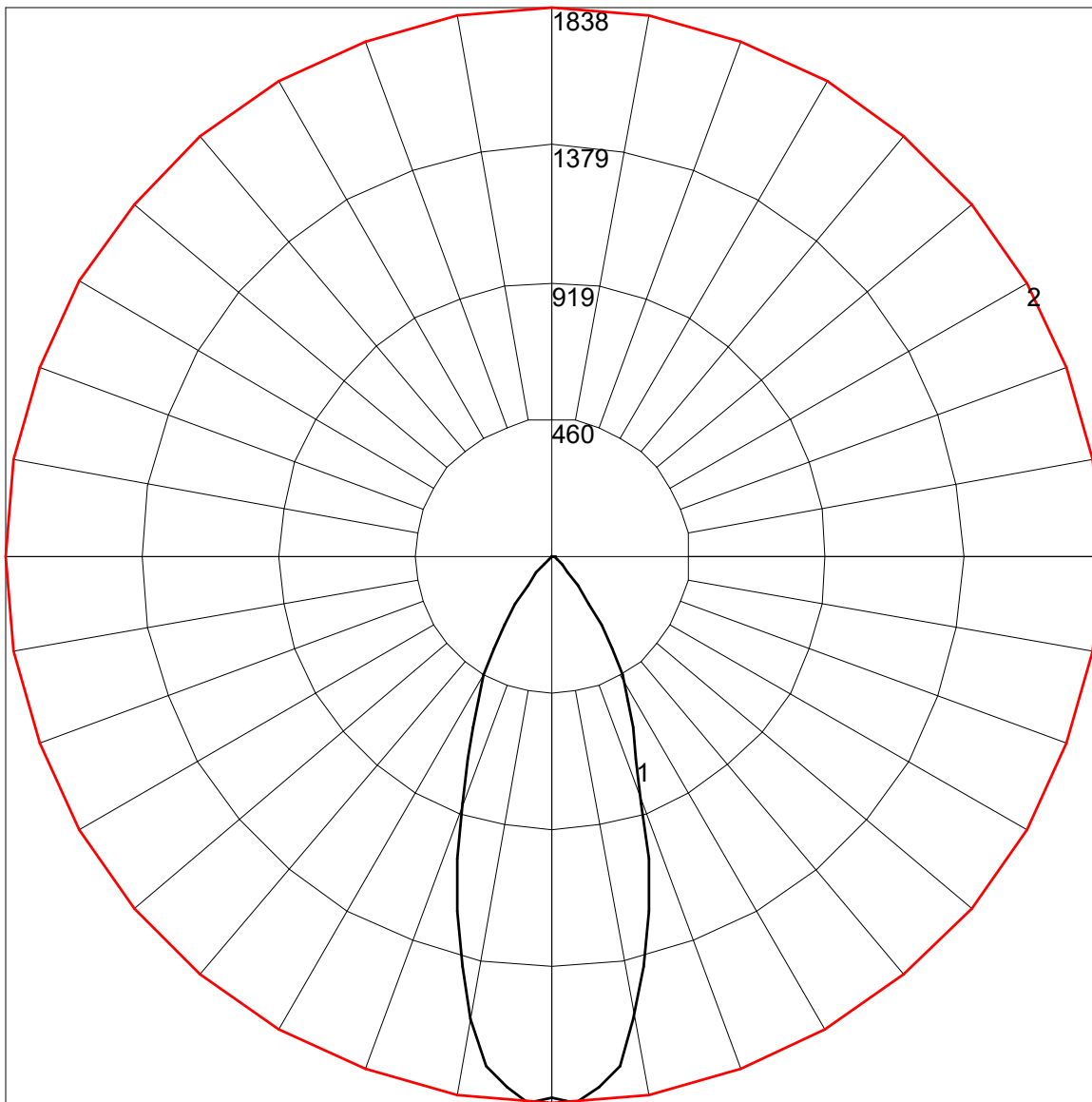
Reflectances

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	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	3H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4H	2H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	3H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
8H	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
12H	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

Maximum UGR = 1.8

POLAR GRAPH



Maximum Candela = 1838.019 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.)