



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L6-9DW-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-L6/9DW-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.

[ 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	637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	13.6
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	1004	1004	1004
55	160	160	160
65	111	111	111
75	74	74	74
85	40	40	40

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CANDELA TABULATION

	<u>0</u>
0.0	909.382
2.5	913.962
5.0	912.117
7.5	883.556
10.0	879.930
12.5	827.006
15.0	766.766
17.5	698.066
20.0	618.553
22.5	533.441
25.0	444.958
27.5	370.279
30.0	294.201
32.5	223.402
35.0	166.024
37.5	117.235
40.0	76.269
42.5	46.245
45.0	26.017
47.5	12.023
50.0	5.661
52.5	4.198
55.0	3.371
57.5	2.862
60.0	2.417
62.5	2.036
65.0	1.717
67.5	1.400
70.0	1.145
72.5	0.954
75.0	0.700
77.5	0.509
80.0	0.318
82.5	0.254
85.0	0.127
87.5	0.064
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	297.15	N.A.	46.60
0-30	501.62	N.A.	78.70
0-40	607.64	N.A.	95.40
0-60	634.37	N.A.	99.60
0-80	636.84	N.A.	100.00
0-90	637.01	N.A.	100.00
10-90	551.62	N.A.	86.60
20-40	310.49	N.A.	48.70
20-50	334.00	N.A.	52.40
40-70	28.44	N.A.	4.50
60-80	2.47	N.A.	0.40
70-80	0.76	N.A.	0.10
80-90	0.16	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	637.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	85.39
10-20	211.76
20-30	204.47
30-40	106.02
40-50	23.51
50-60	3.22
60-70	1.71
70-80	0.76
80-90	0.16
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	41	41	41	41	40	40	40	40	39	39	39	37	37	37	36	36	36	35
1	40	39	38	37	39	38	37	37	37	36	35	35	35	34	34	34	33	33
2	38	36	35	34	37	36	34	33	35	34	33	34	33	32	33	32	31	31
3	36	34	32	31	35	34	32	31	33	31	30	32	31	30	31	30	29	29
4	34	32	30	29	34	32	30	29	31	29	28	30	29	28	30	29	28	27
5	33	30	28	27	32	30	28	27	29	28	26	29	27	26	28	27	26	26
6	31	28	27	25	31	28	26	25	28	26	25	27	26	25	27	26	25	24
7	30	27	25	24	30	27	25	24	26	25	23	26	24	23	26	24	23	23
8	29	26	24	22	28	25	24	22	25	23	22	25	23	22	24	23	22	21
9	27	24	22	21	27	24	22	21	24	22	21	23	22	21	23	22	21	20
10	26	23	21	20	26	23	21	20	23	21	20	22	21	20	22	21	20	19

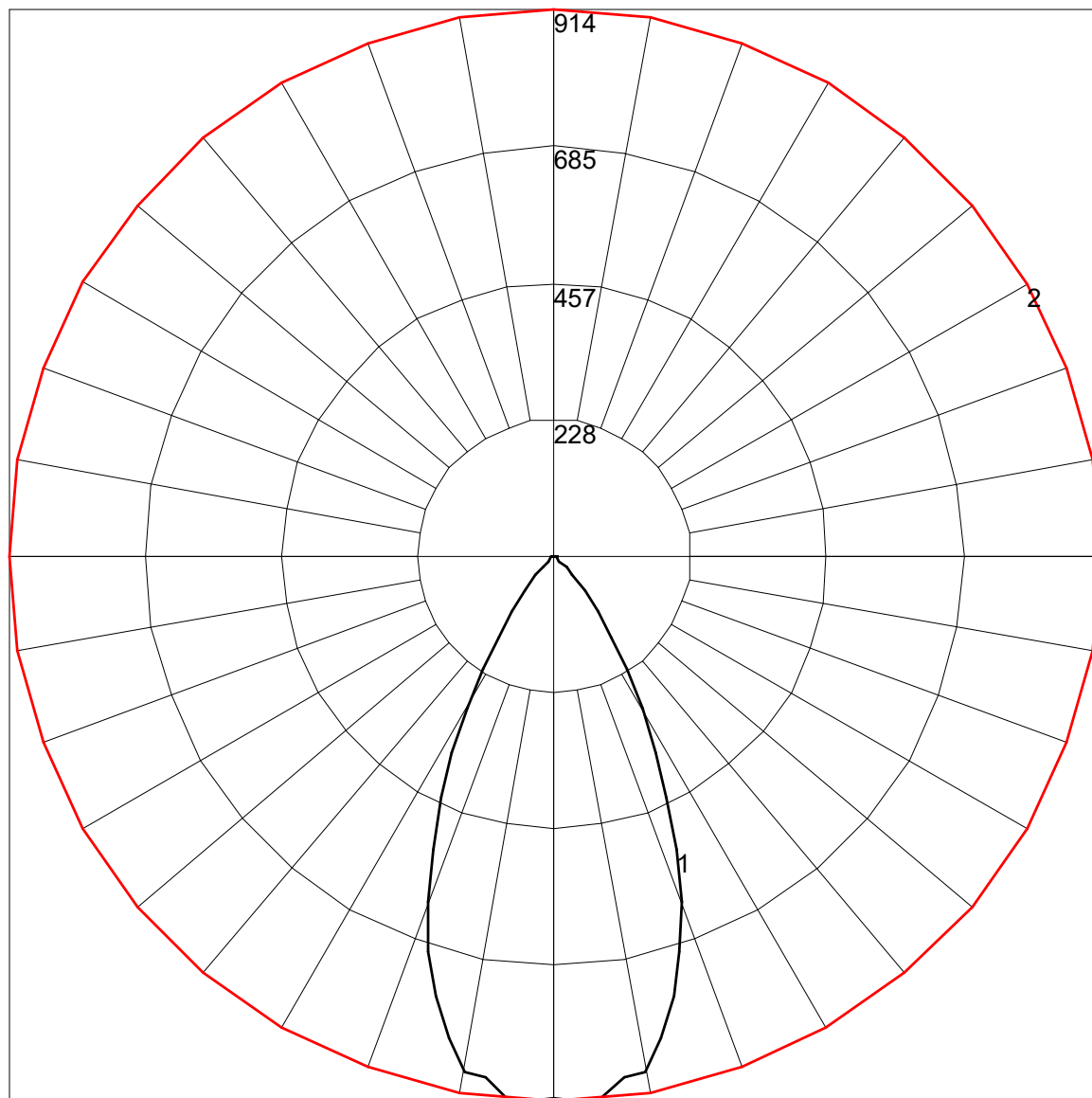
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**UGR TABLE - CORRECTED**

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 = 913.962 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.)