



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L6-9DW-ON-CS-DIM-UNV 3000K\_.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-L6/9DW-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	584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	13.6
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	973	973	973
55	87	87	87
65	55	55	55
75	35	35	35
85	21	21	21

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CANDELA TABULATION

	<u>0</u>
0.0	1038.178
2.5	1049.270
5.0	1024.067
7.5	985.737
10.0	900.284
12.5	806.560
15.0	707.783
17.5	608.415
20.0	502.943
22.5	420.640
25.0	361.636
27.5	313.396
30.0	264.369
32.5	213.766
35.0	163.688
37.5	115.907
40.0	74.428
42.5	45.090
45.0	25.203
47.5	10.829
50.0	3.610
52.5	2.232
55.0	1.838
57.5	1.575
60.0	1.313
62.5	1.050
65.0	0.853
67.5	0.656
70.0	0.525
72.5	0.394
75.0	0.328
77.5	0.262
80.0	0.197
82.5	0.131
85.0	0.066
87.5	0.066
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	288.57	N.A.	49.40
0-30	456.65	N.A.	78.20
0-40	558.38	N.A.	95.60
0-60	582.70	N.A.	99.80
0-80	583.92	N.A.	100.00
0-90	584.01	N.A.	100.00
10-90	489.87	N.A.	83.90
20-40	269.81	N.A.	46.20
20-50	292.33	N.A.	50.10
40-70	25.18	N.A.	4.30
60-80	1.21	N.A.	0.20
70-80	0.35	N.A.	0.10
80-90	0.10	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	584.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.14
10-20	194.43
20-30	168.08
30-40	101.73
40-50	22.52
50-60	1.80
60-70	0.86
70-80	0.35
80-90	0.10
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	41	41	41	41	39	39	39	37	37	37	36	36	36	35
1	40	39	38	37	39	38	37	37	37	36	36	35	35	35	34	34	34	33
2	38	36	35	34	37	36	35	34	35	34	33	34	33	32	33	32	32	31
3	36	34	33	31	36	34	32	31	33	32	31	32	31	30	31	30	30	29
4	35	32	30	29	34	32	30	29	31	30	29	30	29	28	30	29	28	27
5	33	30	29	27	33	30	28	27	29	28	27	29	28	27	28	27	26	26
6	32	29	27	26	31	29	27	25	28	26	25	28	26	25	27	26	25	24
7	30	27	25	24	30	27	25	24	27	25	24	26	25	24	26	25	24	23
8	29	26	24	23	29	26	24	23	25	24	23	25	24	22	25	23	22	22
9	28	25	23	22	27	25	23	21	24	23	21	24	22	21	24	22	21	21
10	27	24	22	20	26	23	22	20	23	21	20	23	21	20	23	21	20	20

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**UGR TABLE - CORRECTED**

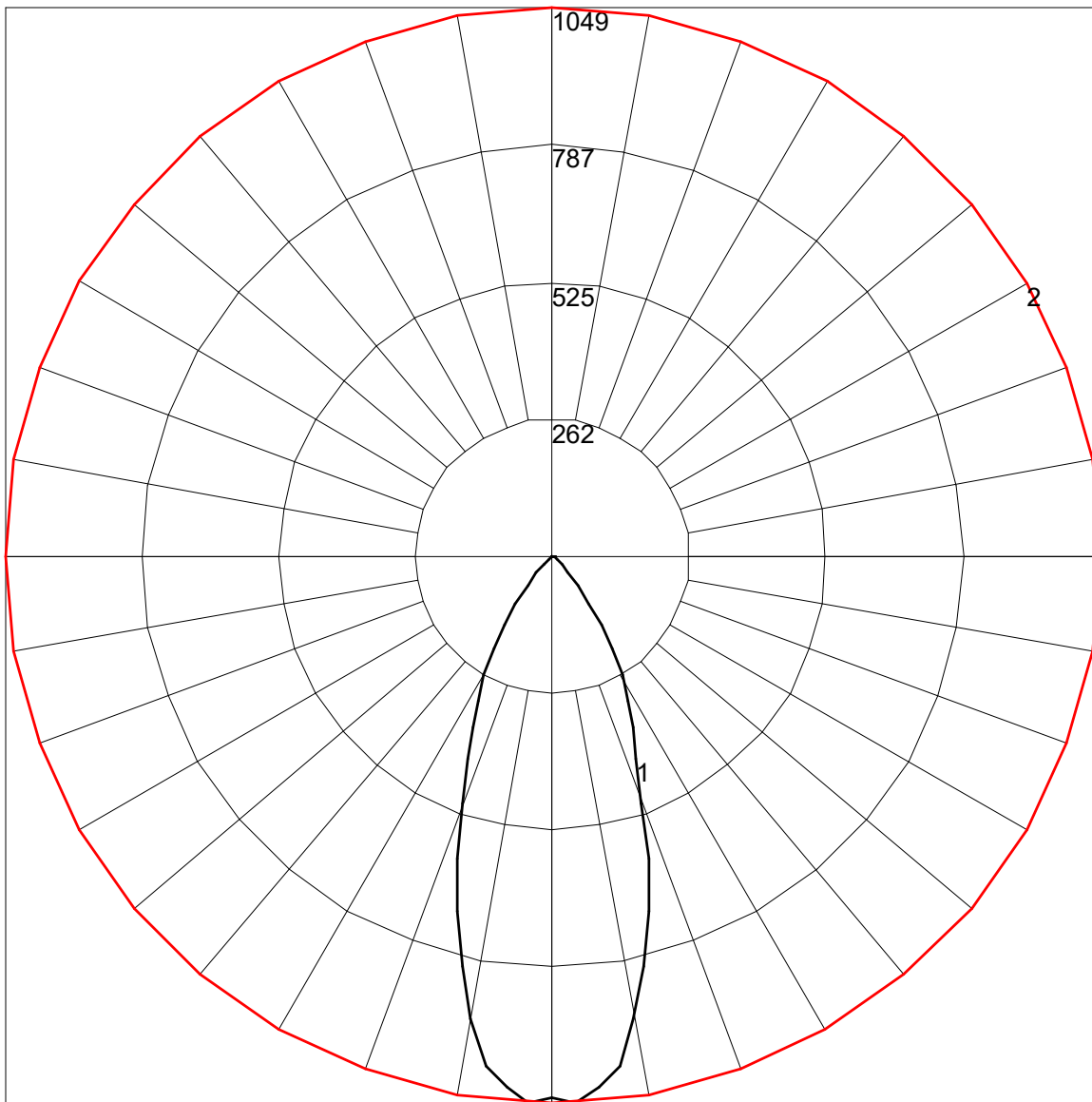
Reflectances

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 = 1049.27 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.)