



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L18-9DW-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

[LUMINAIRE] 8DR-TL-L18/9DW-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

[ABSOLUTE NOTE] 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	1676
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	37
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	2791	2791	2791
55	251	251	251
65	158	158	158
75	99	99	99
85	59	59	59

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CANDELA TABULATION

	<u>0</u>
0.0	2979.429
2.5	3011.262
5.0	2938.933
7.5	2828.933
10.0	2583.692
12.5	2314.718
15.0	2031.241
17.5	1746.068
20.0	1443.379
22.5	1207.179
25.0	1037.846
27.5	899.404
30.0	758.702
32.5	613.478
35.0	469.762
37.5	332.639
40.0	213.597
42.5	129.401
45.0	72.329
47.5	31.079
50.0	10.360
52.5	6.404
55.0	5.274
57.5	4.521
60.0	3.767
62.5	3.014
65.0	2.449
67.5	1.883
70.0	1.507
72.5	1.130
75.0	0.942
77.5	0.753
80.0	0.565
82.5	0.377
85.0	0.188
87.5	0.188
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	828.16	N.A.	49.40
0-30	1310.52	N.A.	78.20
0-40	1602.48	N.A.	95.60
0-60	1672.28	N.A.	99.80
0-80	1675.76	N.A.	100.00
0-90	1676.04	N.A.	100.00
10-90	1405.86	N.A.	83.90
20-40	774.32	N.A.	46.20
20-50	838.95	N.A.	50.10
40-70	72.26	N.A.	4.30
60-80	3.48	N.A.	0.20
70-80	1.02	N.A.	0.10
80-90	0.28	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	1676.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.18
10-20	557.97
20-30	482.37
30-40	291.96
40-50	64.63
50-60	5.17
60-70	2.46
70-80	1.02
80-90	0.28
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	37	37	37	37	36	36	36	36	34	34	34	33	33	33	31	31	31	31
1	35	34	34	33	34	34	33	32	32	32	31	31	31	30	30	30	30	29
2	34	32	31	30	33	32	31	30	31	30	29	30	29	28	29	28	28	27
3	32	30	29	28	31	30	28	27	29	28	27	28	27	27	28	27	26	26
4	31	28	27	26	30	28	27	26	27	26	25	27	26	25	26	25	25	24
5	29	27	25	24	29	27	25	24	26	25	24	26	24	23	25	24	23	23
6	28	25	24	23	27	25	24	22	25	23	22	24	23	22	24	23	22	22
7	27	24	22	21	26	24	22	21	24	22	21	23	22	21	23	22	21	20
8	26	23	21	20	25	23	21	20	22	21	20	22	21	20	22	21	20	19
9	25	22	20	19	24	22	20	19	21	20	19	21	20	19	21	20	19	18
10	24	21	19	18	23	21	19	18	20	19	18	20	19	18	20	19	18	18

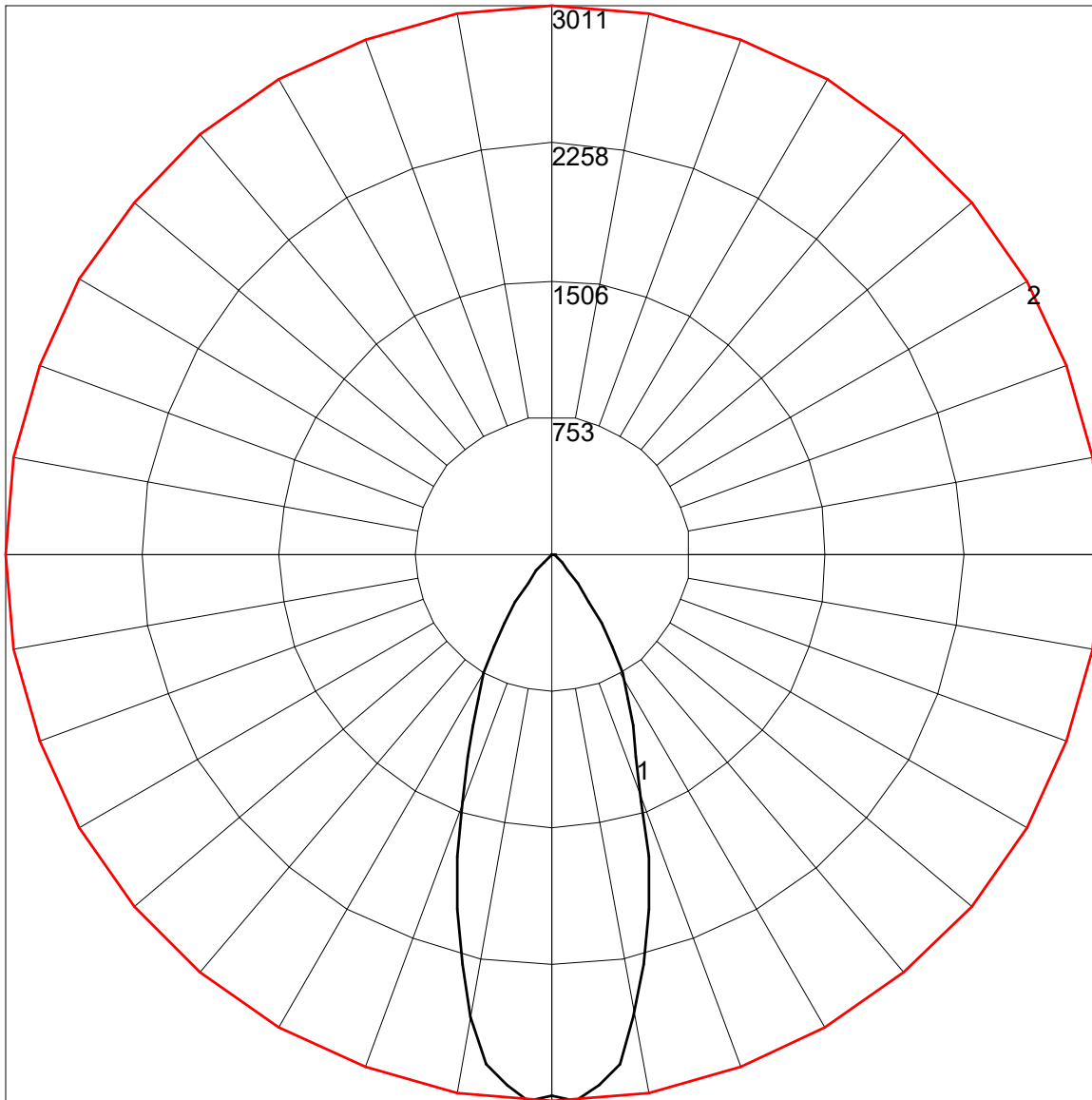
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UGR TABLE - CORRECTED

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	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
4H	2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
8H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
12H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 3011.262 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.)