



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L18-9DW-OM-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-L18/9DW-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

[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	1829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	37
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	2883	2883	2883
55	461	461	461
65	318	318	318
75	212	212	212
85	114	114	114

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CANDELA TABULATION

	<u>0</u>
0.0	2611.082
2.5	2624.232
5.0	2618.936
7.5	2536.929
10.0	2526.518
12.5	2374.558
15.0	2201.594
17.5	2004.338
20.0	1776.033
22.5	1531.655
25.0	1277.596
27.5	1063.172
30.0	844.730
32.5	641.447
35.0	476.701
37.5	336.614
40.0	218.990
42.5	132.782
45.0	74.702
47.5	34.520
50.0	16.255
52.5	12.055
55.0	9.680
57.5	8.219
60.0	6.941
62.5	5.845
65.0	4.931
67.5	4.018
70.0	3.288
72.5	2.740
75.0	2.009
77.5	1.461
80.0	0.913
82.5	0.731
85.0	0.365
87.5	0.183
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	853.19	N.A.	46.60
0-30	1440.28	N.A.	78.70
0-40	1744.69	N.A.	95.40
0-60	1821.44	N.A.	99.60
0-80	1828.55	N.A.	100.00
0-90	1829.02	N.A.	100.00
10-90	1583.85	N.A.	86.60
20-40	891.50	N.A.	48.70
20-50	959.00	N.A.	52.40
40-70	81.67	N.A.	4.50
60-80	7.11	N.A.	0.40
70-80	2.19	N.A.	0.10
80-90	0.47	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	1829.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	245.17
10-20	608.02
20-30	587.09
30-40	304.41
40-50	67.50
50-60	9.25
60-70	4.92
70-80	2.19
80-90	0.47
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	33	32	31	30	33	32	30	30	31	30	29	30	29	28	29	28	28	27
3	32	30	29	27	31	30	28	27	29	28	27	28	27	26	27	27	26	26
4	30	28	27	25	30	28	26	25	27	26	25	27	26	25	26	25	24	24
5	29	27	25	24	29	26	25	24	26	24	23	25	24	23	25	24	23	23
6	28	25	23	22	27	25	23	22	24	23	22	24	23	22	24	23	22	21
7	26	24	22	21	26	24	22	21	23	22	21	23	22	21	23	21	20	20
8	25	23	21	20	25	22	21	20	22	21	20	22	20	19	21	20	19	19
9	24	21	20	19	24	21	20	19	21	20	19	21	19	18	20	19	18	18
10	23	20	19	18	23	20	19	18	20	19	18	20	18	18	20	18	17	17

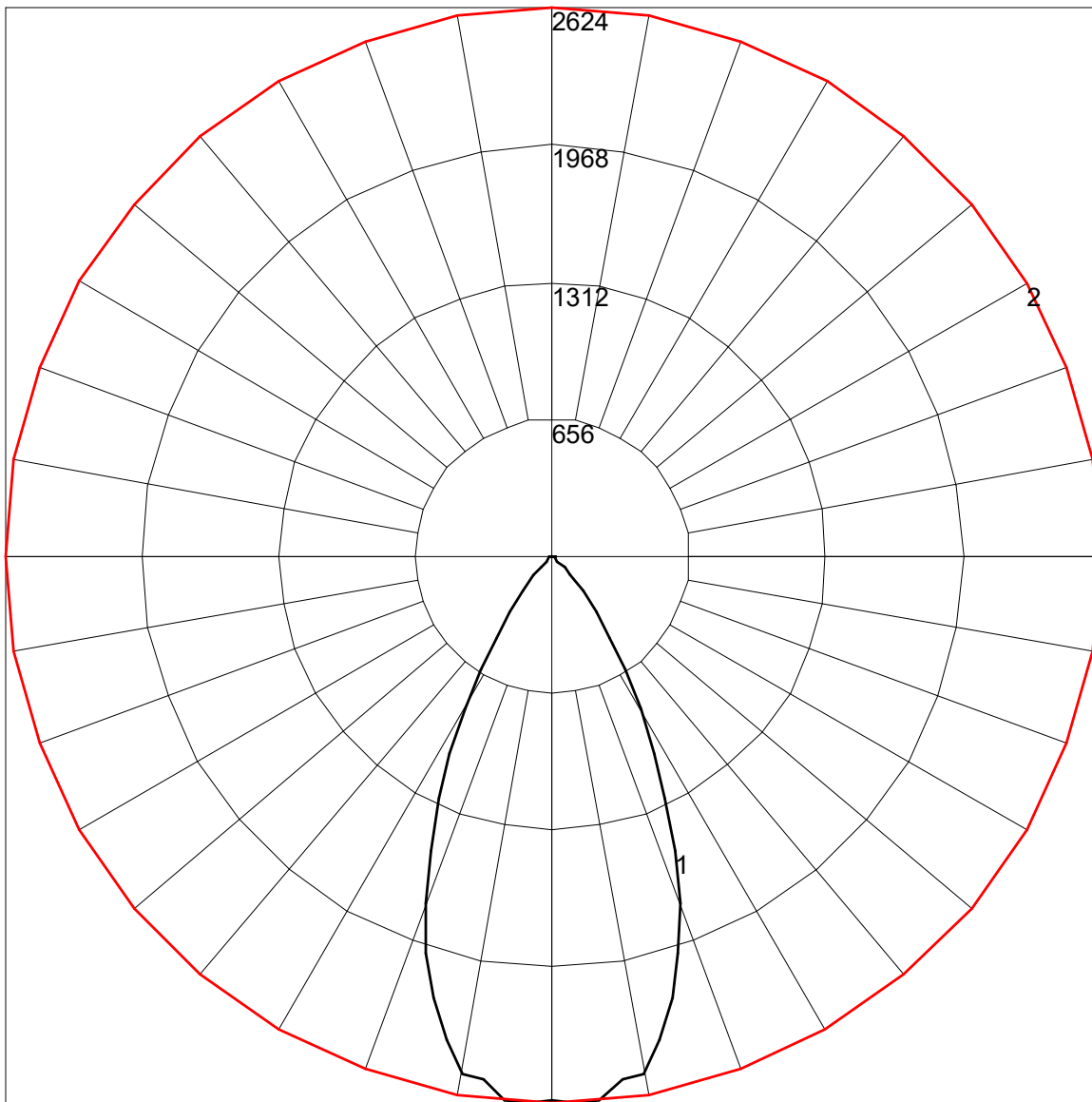
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UGR TABLE - CORRECTED

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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
4H	2H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
8H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

Maximum UGR = 6.2

POLAR GRAPH



Maximum Candela = 2624.232 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.)