



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L11-9DW-OW-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-L11/9DW-OW-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

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1128
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	23.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.96
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	2607	2607	2607
55	433	433	433
65	297	297	297
75	231	231	231
85	172	172	172

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CANDELA TABULATION

	<u>0</u>
0.0	1102.891
2.5	1104.317
5.0	1109.800
7.5	1088.635
10.0	1067.469
12.5	1053.871
15.0	1011.760
17.5	974.145
20.0	943.659
22.5	912.953
25.0	875.119
27.5	808.662
30.0	690.664
32.5	561.589
35.0	432.295
37.5	311.007
40.0	204.085
42.5	124.140
45.0	67.553
47.5	29.609
50.0	14.585
52.5	11.405
55.0	9.102
57.5	7.567
60.0	6.361
62.5	5.373
65.0	4.606
67.5	3.838
70.0	3.180
72.5	2.632
75.0	2.193
77.5	1.755
80.0	1.316
82.5	0.877
85.0	0.548
87.5	0.219
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	388.90	N.A.	34.50
0-30	780.76	N.A.	69.20
0-40	1049.93	N.A.	93.10
0-60	1120.51	N.A.	99.30
0-80	1127.43	N.A.	99.90
0-90	1128.06	N.A.	100.00
10-90	1023.85	N.A.	90.80
20-40	661.03	N.A.	58.60
20-50	723.03	N.A.	64.10
40-70	75.18	N.A.	6.70
60-80	6.92	N.A.	0.60
70-80	2.33	N.A.	0.20
80-90	0.63	N.A.	0.10
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	1128.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.21
10-20	284.69
20-30	391.86
30-40	269.16
40-50	62.01
50-60	8.58
60-70	4.59
70-80	2.33
80-90	0.63
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	80				70				50			30			10			0
RW	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	69	68	66	65	68	66	65	64	64	63	62	61	61	60	59	59	58	57
2	66	63	60	58	64	62	59	57	60	58	56	58	56	55	56	55	54	53
3	62	58	55	53	61	58	55	52	56	54	52	54	52	51	53	51	50	49
4	59	54	51	48	58	54	51	48	52	50	48	51	49	47	50	48	46	45
5	56	51	47	45	55	50	47	44	49	46	44	48	46	44	47	45	43	42
6	53	48	44	41	52	47	44	41	46	43	41	45	43	41	45	42	40	39
7	50	45	41	38	50	44	41	38	43	40	38	43	40	38	42	39	38	37
8	48	42	38	36	47	42	38	36	41	38	35	40	37	35	40	37	35	34
9	46	40	36	33	45	39	36	33	39	35	33	38	35	33	38	35	33	32
10	43	37	34	31	43	37	34	31	36	33	31	36	33	31	36	33	31	30

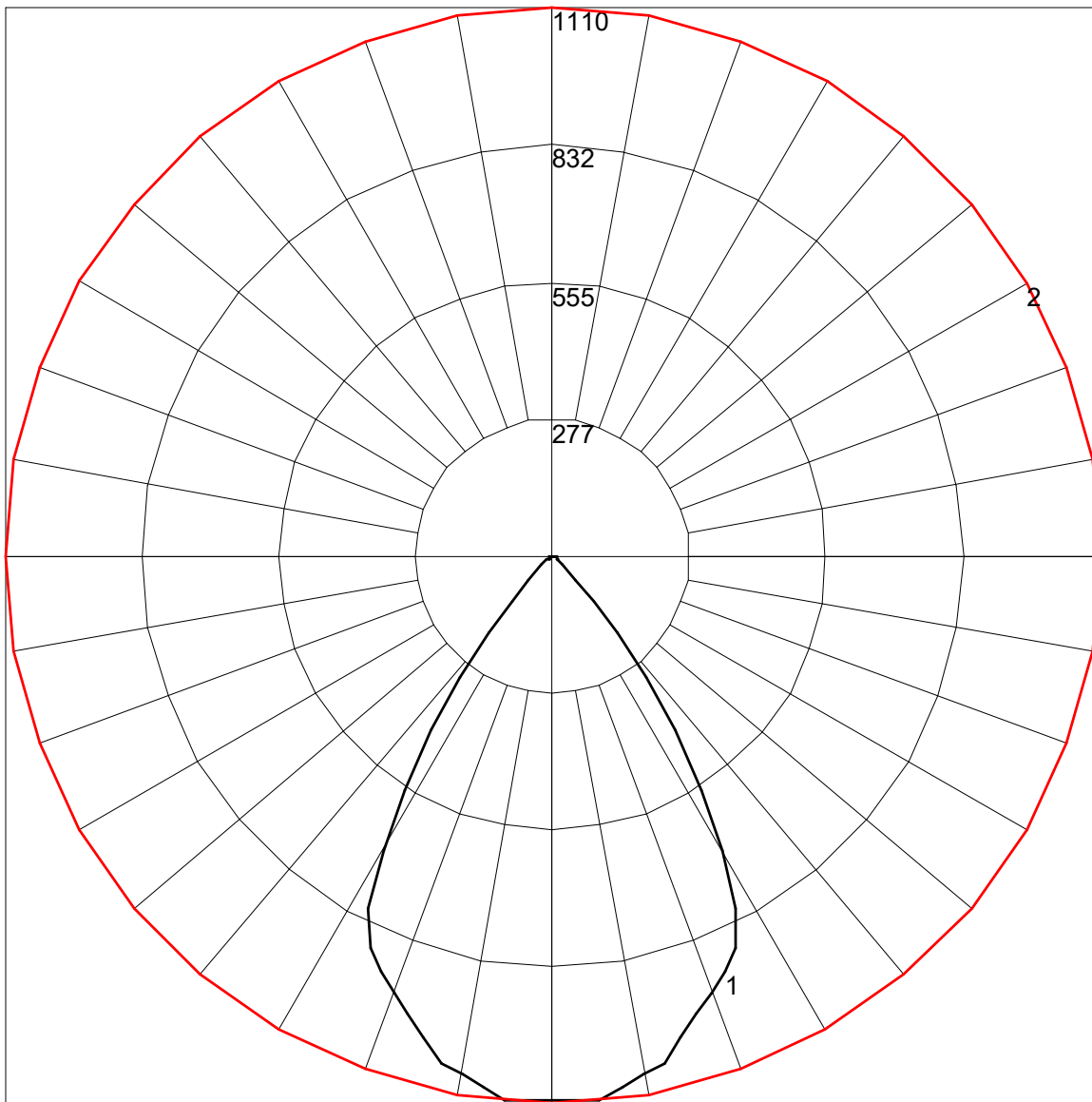
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UGR TABLE - CORRECTED

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	2.3	2.1	2.1	2.1	2.1	2.3
	6H	2.1	2.1	2.1	2.2	2.6	2.1	2.1	2.1	2.2	2.6
	8H	2.1	2.1	2.1	2.2	2.6	2.1	2.1	2.1	2.2	2.6
	12H	2.1	2.1	2.1	2.2	2.6	2.1	2.1	2.1	2.2	2.6
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	2.3	2.1	2.1	2.1	2.1	2.3
	4H	2.1	2.1	2.1	2.4	2.8	2.1	2.1	2.1	2.4	2.8
	6H	2.1	2.3	2.2	2.7	3.2	2.1	2.3	2.2	2.7	3.2
	8H	2.1	2.3	2.4	2.8	3.3	2.1	2.3	2.4	2.8	3.3
	12H	2.1	2.3	2.4	2.8	3.3	2.1	2.3	2.4	2.8	3.3
8H	4H	2.1	2.1	2.1	2.4	2.9	2.1	2.1	2.1	2.4	2.9
	6H	2.1	2.4	2.5	2.9	3.4	2.1	2.4	2.5	2.9	3.4
	8H	2.2	2.5	2.7	3.0	3.5	2.2	2.5	2.7	3.0	3.5
	12H	2.3	2.6	2.8	3.1	3.7	2.3	2.6	2.8	3.1	3.7
12H	4H	2.1	2.1	2.1	2.3	2.8	2.1	2.1	2.1	2.3	2.8
	6H	2.1	2.3	2.6	2.8	3.4	2.1	2.3	2.6	2.8	3.4
	8H	2.2	2.5	2.7	3.0	3.6	2.2	2.5	2.7	3.0	3.6

Maximum UGR = 3.7

POLAR GRAPH



Maximum Candela = 1109.8 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)