



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L6-9DW-OW-CS-DIM-UNV 3000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 21-JUN-2021

[MANUFACT] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L6/9DW-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

[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	643
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)	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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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1486	1486	1486
55	247	247	247
65	170	170	170
75	132	132	132
85	98	98	98

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CANDELA TABULATION

	<u>0</u>
0.0	628.687
2.5	629.499
5.0	632.625
7.5	620.560
10.0	608.495
12.5	600.744
15.0	576.739
17.5	555.297
20.0	537.919
22.5	520.415
25.0	498.848
27.5	460.966
30.0	393.703
32.5	320.126
35.0	246.424
37.5	177.285
40.0	116.335
42.5	70.764
45.0	38.508
47.5	16.878
50.0	8.314
52.5	6.501
55.0	5.189
57.5	4.313
60.0	3.626
62.5	3.063
65.0	2.625
67.5	2.188
70.0	1.813
72.5	1.500
75.0	1.250
77.5	1.000
80.0	0.750
82.5	0.500
85.0	0.313
87.5	0.125
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	221.69	N.A.	34.50
0-30	445.06	N.A.	69.20
0-40	598.49	N.A.	93.10
0-60	638.73	N.A.	99.30
0-80	642.67	N.A.	99.90
0-90	643.03	N.A.	100.00
10-90	583.63	N.A.	90.80
20-40	376.81	N.A.	58.60
20-50	412.16	N.A.	64.10
40-70	42.85	N.A.	6.70
60-80	3.94	N.A.	0.60
70-80	1.33	N.A.	0.20
80-90	0.36	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	643.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.40
10-20	162.28
20-30	223.38
30-40	153.43
40-50	35.35
50-60	4.89
60-70	2.62
70-80	1.33
80-90	0.36
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	41	41	41	41	40	40	40	40	39	39	39	37	37	37	36	36	36	35
1	39	39	38	37	39	38	37	36	36	36	35	35	35	34	34	33	33	32
2	37	36	34	33	37	35	34	33	34	33	32	33	32	31	32	31	31	30
3	36	33	32	30	35	33	31	30	32	31	29	31	30	29	30	29	28	28
4	34	31	29	28	33	31	29	27	30	28	27	29	28	27	29	27	26	26
5	32	29	27	25	31	29	27	25	28	26	25	27	26	25	27	26	25	24
6	30	27	25	24	30	27	25	23	26	25	23	26	24	23	25	24	23	22
7	29	25	23	22	28	25	23	22	25	23	22	24	23	22	24	23	21	21
8	27	24	22	20	27	24	22	20	23	22	20	23	21	20	23	21	20	20
9	26	23	20	19	26	22	20	19	22	20	19	22	20	19	21	20	19	18
10	25	21	19	18	24	21	19	18	21	19	18	21	19	18	20	19	18	17

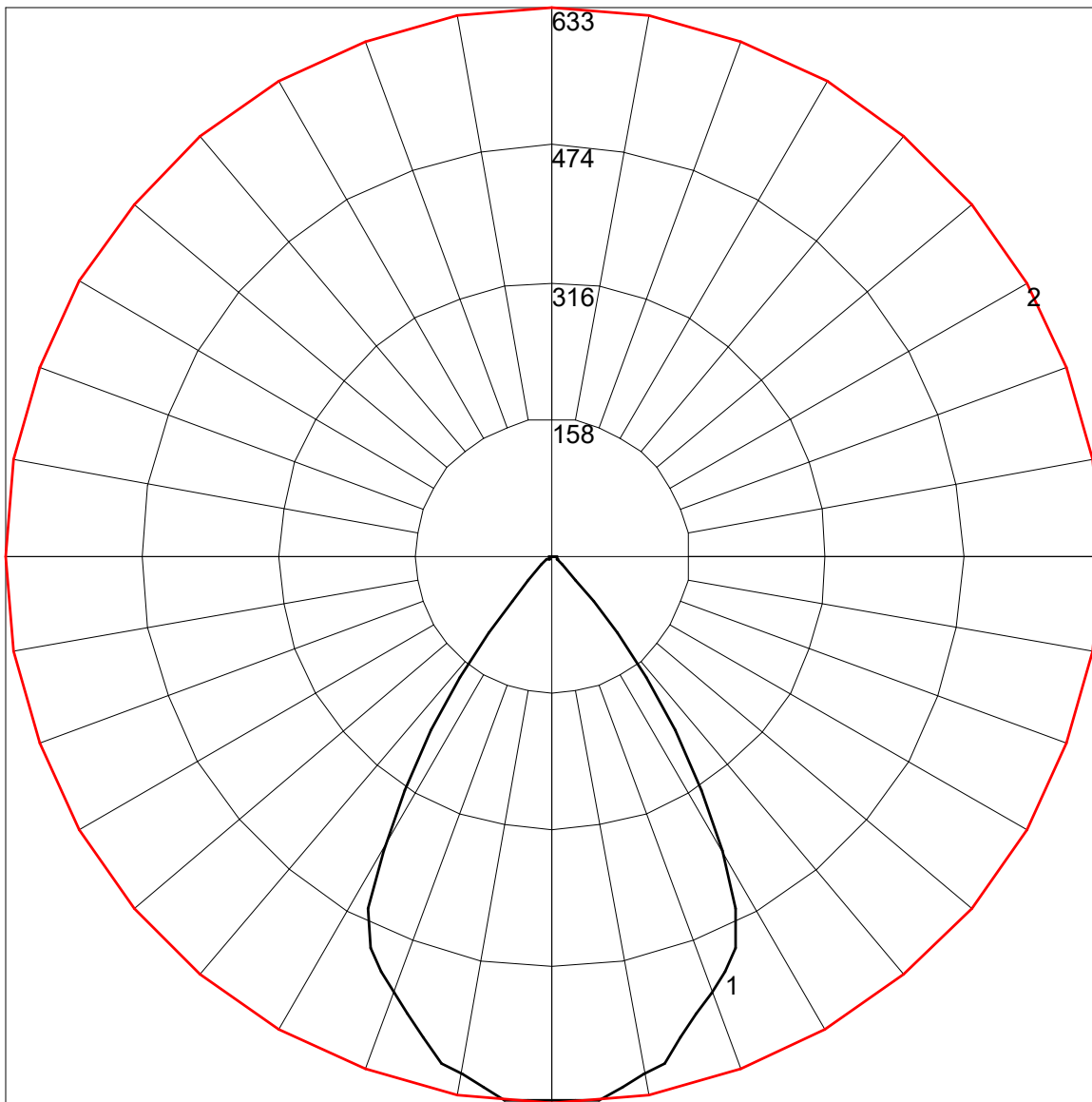
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UGR TABLE - CORRECTED

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	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 = 632.625 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.)