



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L10-8TW-OW-CS-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L10/8TW-OW-CS-DIM-UNV 4000k

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) TUNABLE WHITE

[MORE] 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

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	14.2
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	2399	2399	2399
55	399	399	399
65	274	274	274
75	213	213	213
85	158	158	158

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CANDELA TABULATION

	<u>0</u>
0.0	1014.894
2.5	1016.206
5.0	1021.252
7.5	1001.775
10.0	982.299
12.5	969.786
15.0	931.035
17.5	896.421
20.0	868.367
22.5	840.111
25.0	805.295
27.5	744.141
30.0	635.558
32.5	516.782
35.0	397.804
37.5	286.193
40.0	187.801
42.5	114.235
45.0	62.163
47.5	27.247
50.0	13.422
52.5	10.495
55.0	8.376
57.5	6.963
60.0	5.853
62.5	4.945
65.0	4.238
67.5	3.532
70.0	2.926
72.5	2.422
75.0	2.018
77.5	1.615
80.0	1.211
82.5	0.807
85.0	0.505
87.5	0.202
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	357.87	N.A.	34.50
0-30	718.47	N.A.	69.20
0-40	966.16	N.A.	93.10
0-60	1031.11	N.A.	99.30
0-80	1037.48	N.A.	99.90
0-90	1038.05	N.A.	100.00
10-90	942.16	N.A.	90.80
20-40	608.29	N.A.	58.60
20-50	665.35	N.A.	64.10
40-70	69.18	N.A.	6.70
60-80	6.37	N.A.	0.60
70-80	2.14	N.A.	0.20
80-90	0.58	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	1038.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.90
10-20	261.97
20-30	360.60
30-40	247.69
40-50	57.06
50-60	7.89
60-70	4.23
70-80	2.14
80-90	0.58
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	21	21	21	21	20	20	20	20	19	19	19	18	18	18	18	18	18	17
1	20	19	19	18	19	19	18	18	18	18	17	17	17	17	17	17	16	16
2	19	18	17	16	18	17	17	16	17	16	16	16	16	16	16	16	15	15
3	18	17	16	15	17	16	15	15	16	15	15	15	15	14	15	15	14	14
4	17	15	14	14	16	15	14	14	15	14	13	15	14	13	14	14	13	13
5	16	14	13	13	16	14	13	13	14	13	12	14	13	12	13	13	12	12
6	15	13	12	12	15	13	12	12	13	12	12	13	12	11	13	12	11	11
7	14	13	12	11	14	13	12	11	12	11	11	12	11	11	12	11	11	10
8	14	12	11	10	13	12	11	10	12	11	10	11	11	10	11	11	10	10
9	13	11	10	9	13	11	10	9	11	10	9	11	10	9	11	10	9	9
10	12	11	10	9	12	10	9	9	10	9	9	10	9	9	10	9	9	9

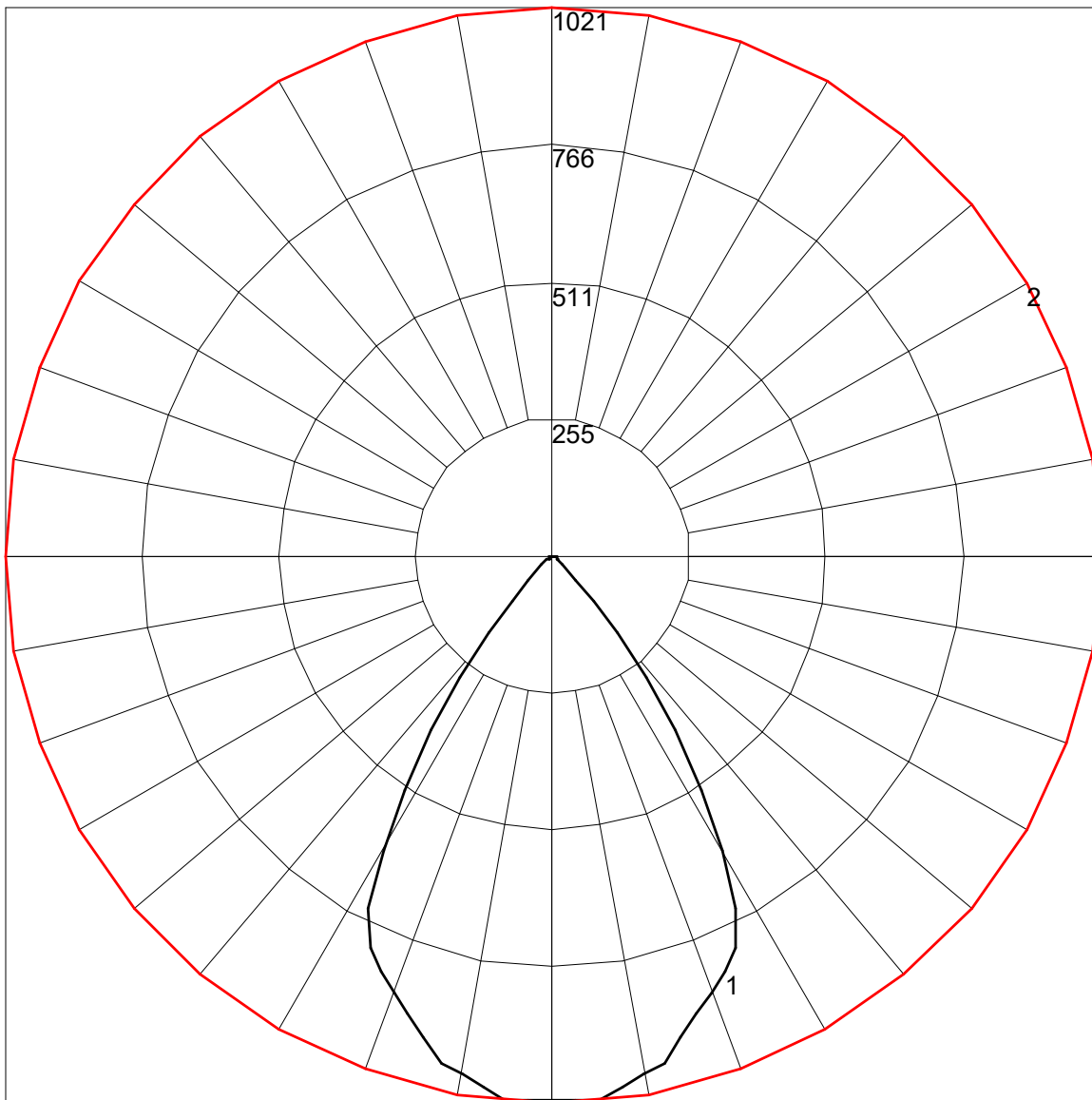
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UGR TABLE - CORRECTED

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	6.4	6.2	6.2	6.2	6.2	6.4
	6H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
	8H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
	12H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
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	6.4	6.2	6.2	6.2	6.2	6.4
	4H	6.2	6.2	6.2	6.5	6.9	6.2	6.2	6.2	6.5	6.9
	6H	6.2	6.4	6.3	6.8	7.3	6.2	6.4	6.3	6.8	7.3
	8H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	7.4
	12H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	7.4
8H	4H	6.2	6.2	6.2	6.5	7.0	6.2	6.2	6.2	6.5	7.0
	6H	6.2	6.5	6.6	7.0	7.5	6.2	6.5	6.6	7.0	7.5
	8H	6.3	6.6	6.8	7.1	7.6	6.3	6.6	6.8	7.1	7.6
	12H	6.4	6.7	6.9	7.2	7.8	6.4	6.7	6.9	7.2	7.8
12H	4H	6.2	6.2	6.2	6.4	6.9	6.2	6.2	6.2	6.4	6.9
	6H	6.2	6.4	6.7	6.9	7.5	6.2	6.4	6.7	6.9	7.5
	8H	6.3	6.6	6.8	7.1	7.7	6.3	6.6	6.8	7.1	7.7

Maximum UGR = 7.8

POLAR GRAPH



Maximum Candela = 1021.252 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.)