



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L10-9TC-ON-CS-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 18-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L10/9TC-ON-CS-DIM-UNV 4000k

[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	984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	27.5
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L10-9TC-ON-CS-DIM-UNV 4000K_.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1639	1639	1639
55	147	147	147
65	93	93	93
75	58	58	58
85	35	35	35

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L10-9TC-ON-CS-DIM-UNV 4000K_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1749.259
2.5	1767.948
5.0	1725.483
7.5	1660.901
10.0	1516.917
12.5	1358.999
15.0	1192.566
17.5	1025.138
20.0	847.425
22.5	708.750
25.0	609.332
27.5	528.051
30.0	445.443
32.5	360.181
35.0	275.803
37.5	195.296
40.0	125.405
42.5	75.973
45.0	42.465
47.5	18.247
50.0	6.082
52.5	3.760
55.0	3.096
57.5	2.654
60.0	2.212
62.5	1.769
65.0	1.438
67.5	1.106
70.0	0.885
72.5	0.664
75.0	0.553
77.5	0.442
80.0	0.332
82.5	0.221
85.0	0.111
87.5	0.111
90.0	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L10-9TC-ON-CS-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.22	N.A.	49.40
0-30	769.42	N.A.	78.20
0-40	940.83	N.A.	95.60
0-60	981.81	N.A.	99.80
0-80	983.86	N.A.	100.00
0-90	984.02	N.A.	100.00
10-90	825.40	N.A.	83.90
20-40	454.61	N.A.	46.20
20-50	492.56	N.A.	50.10
40-70	42.43	N.A.	4.30
60-80	2.04	N.A.	0.20
70-80	0.60	N.A.	0.10
80-90	0.17	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	984.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.63
10-20	327.59
20-30	283.20
30-40	171.41
40-50	37.94
50-60	3.04
60-70	1.45
70-80	0.60
80-90	0.17
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L10-9TC-ON-CS-DIM-UNV 4000K_.IES

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	22	22	22	22	21	21	21	21	20	20	20	19	19	19	18	18	18	18
1	21	20	20	19	20	20	19	19	19	19	18	18	18	18	18	18	17	17
2	20	19	18	18	19	19	18	17	18	17	17	17	17	17	17	17	16	16
3	19	18	17	16	18	17	17	16	17	16	16	17	16	16	16	16	15	15
4	18	17	16	15	18	17	16	15	16	15	15	16	15	15	15	15	14	14
5	17	16	15	14	17	16	15	14	15	15	14	15	14	14	15	14	14	13
6	16	15	14	13	16	15	14	13	15	14	13	14	14	13	14	13	13	13
7	16	14	13	12	15	14	13	12	14	13	12	14	13	12	13	13	12	12
8	15	13	12	12	15	13	12	12	13	12	12	13	12	12	13	12	12	11
9	14	13	12	11	14	13	12	11	13	12	11	12	12	11	12	12	11	11
10	14	12	11	11	14	12	11	11	12	11	11	12	11	11	12	11	11	10

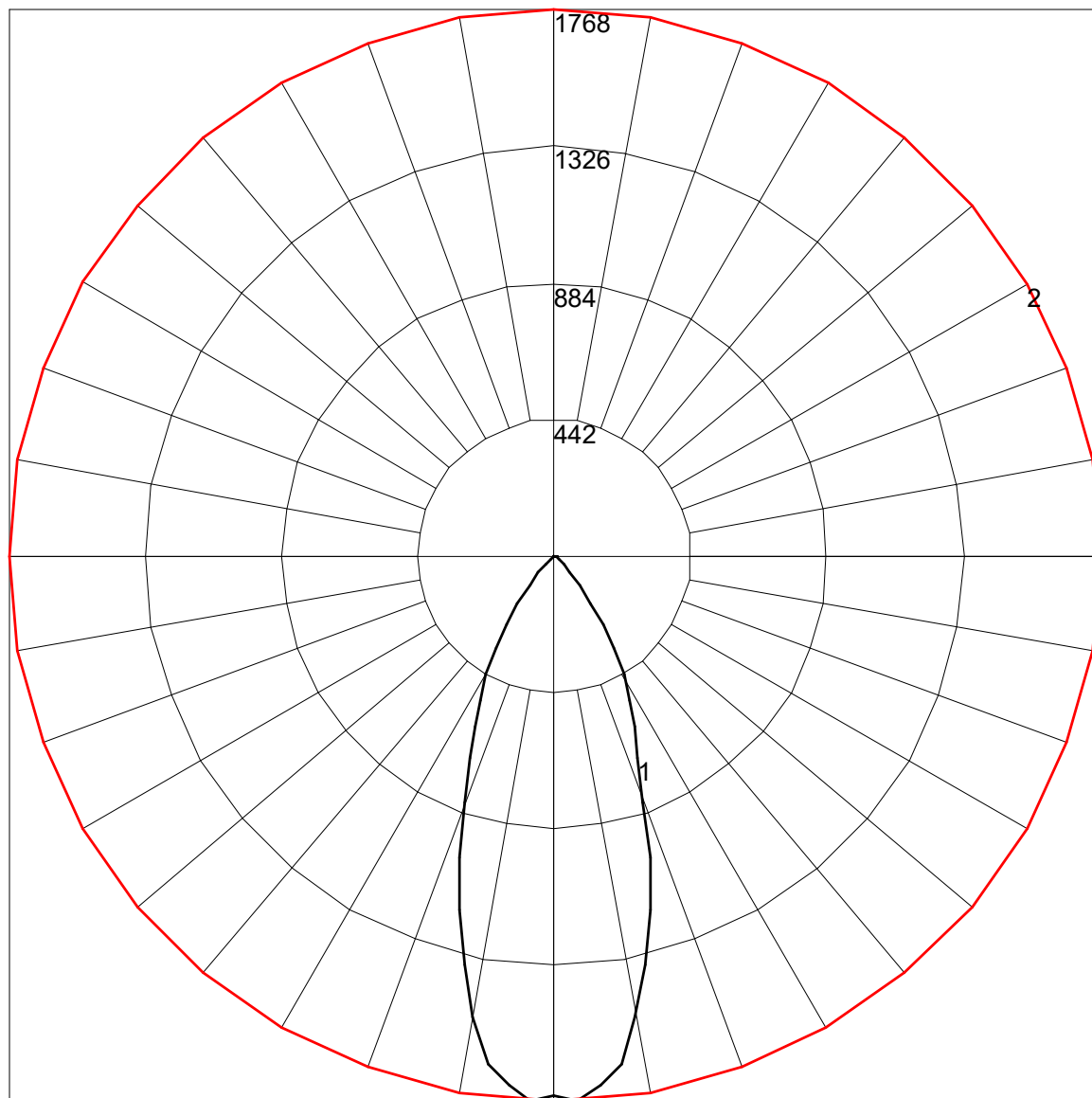
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L10-9TC-ON-CS-DIM-UNV 4000K_.IES

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 = 1767.948 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.)