



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L10-9TC-OW-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-OW-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	1084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	27.5
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

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

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2505	2505	2505
55	416	416	416
65	286	286	286
75	222	222	222
85	165	165	165

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

CANDELA TABULATION

	<u>0</u>
0.0	1059.870
2.5	1061.240
5.0	1066.509
7.5	1046.170
10.0	1025.830
12.5	1012.762
15.0	972.294
17.5	936.146
20.0	906.849
22.5	877.341
25.0	840.983
27.5	777.119
30.0	663.723
32.5	539.683
35.0	415.433
37.5	298.875
40.0	196.124
42.5	119.297
45.0	64.918
47.5	28.454
50.0	14.016
52.5	10.960
55.0	8.747
57.5	7.272
60.0	6.112
62.5	5.164
65.0	4.426
67.5	3.688
70.0	3.056
72.5	2.529
75.0	2.108
77.5	1.686
80.0	1.265
82.5	0.843
85.0	0.527
87.5	0.211
90.0	0.000

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	373.73	N.A.	34.50
0-30	750.31	N.A.	69.20
0-40	1008.97	N.A.	93.10
0-60	1076.8	N.A.	99.30
0-80	1083.45	N.A.	99.90
0-90	1084.05	N.A.	100.00
10-90	983.91	N.A.	90.80
20-40	635.24	N.A.	58.60
20-50	694.83	N.A.	64.10
40-70	72.24	N.A.	6.70
60-80	6.65	N.A.	0.60
70-80	2.24	N.A.	0.20
80-90	0.60	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	1084.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.15
10-20	273.58
20-30	376.58
30-40	258.66
40-50	59.59
50-60	8.24
60-70	4.41
70-80	2.24
80-90	0.60
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-OW-CS-DIM-UNV 4000K_.IES

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

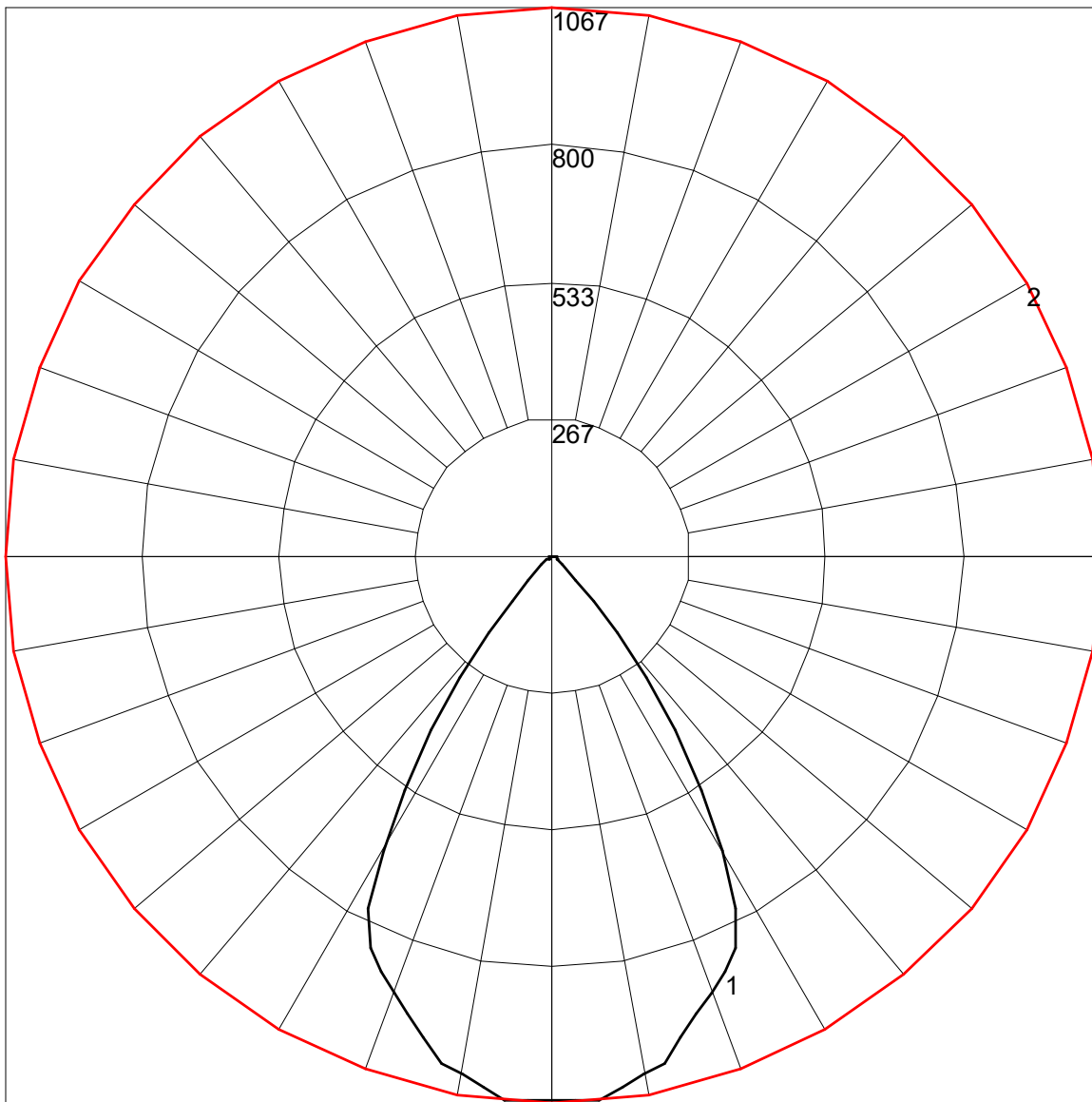
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L10-9TC-OW-CS-DIM-UNV 4000K_.IES

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	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 = 1066.509 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.)