



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L10/8TW-ON-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

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	14.2
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1569	1569	1569
55	141	141	141
65	89	89	89
75	56	56	56
85	33	33	33

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CANDELA TABULATION

	<u>0</u>
0.0	1674.596
2.5	1692.487
5.0	1651.834
7.5	1590.009
10.0	1452.170
12.5	1300.993
15.0	1141.664
17.5	981.382
20.0	811.255
22.5	678.498
25.0	583.324
27.5	505.512
30.0	426.430
32.5	344.807
35.0	264.031
37.5	186.960
40.0	120.053
42.5	72.730
45.0	40.653
47.5	17.468
50.0	5.823
52.5	3.599
55.0	2.964
57.5	2.541
60.0	2.117
62.5	1.694
65.0	1.376
67.5	1.059
70.0	0.847
72.5	0.635
75.0	0.529
77.5	0.423
80.0	0.318
82.5	0.212
85.0	0.106
87.5	0.106
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	465.47	N.A.	49.40
0-30	736.58	N.A.	78.20
0-40	900.68	N.A.	95.60
0-60	939.91	N.A.	99.80
0-80	941.86	N.A.	100.00
0-90	942.02	N.A.	100.00
10-90	790.17	N.A.	83.90
20-40	435.21	N.A.	46.20
20-50	471.53	N.A.	50.10
40-70	40.61	N.A.	4.30
60-80	1.96	N.A.	0.20
70-80	0.57	N.A.	0.10
80-90	0.16	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	942.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.86
10-20	313.61
20-30	271.11
30-40	164.10
40-50	36.32
50-60	2.91
60-70	1.38
70-80	0.57
80-90	0.16
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	19	19	19	19	18	18	18	18	18	17	17	17	17	17	16
2	19	18	17	17	18	18	17	17	17	17	16	17	16	16	16	16	16	15
3	18	17	16	16	18	17	16	15	16	16	15	16	15	15	16	15	15	14
4	17	16	15	14	17	16	15	14	15	15	14	15	15	14	15	14	14	14
5	16	15	14	13	16	15	14	13	15	14	13	14	14	13	14	14	13	13
6	16	14	13	13	15	14	13	13	14	13	13	14	13	12	13	13	12	12
7	15	14	13	12	15	13	13	12	13	12	12	13	12	12	13	12	12	11
8	14	13	12	11	14	13	12	11	13	12	11	12	12	11	12	12	11	11
9	14	12	11	11	14	12	11	11	12	11	11	12	11	11	12	11	11	10
10	13	12	11	10	13	12	11	10	11	11	10	11	11	10	11	11	10	10

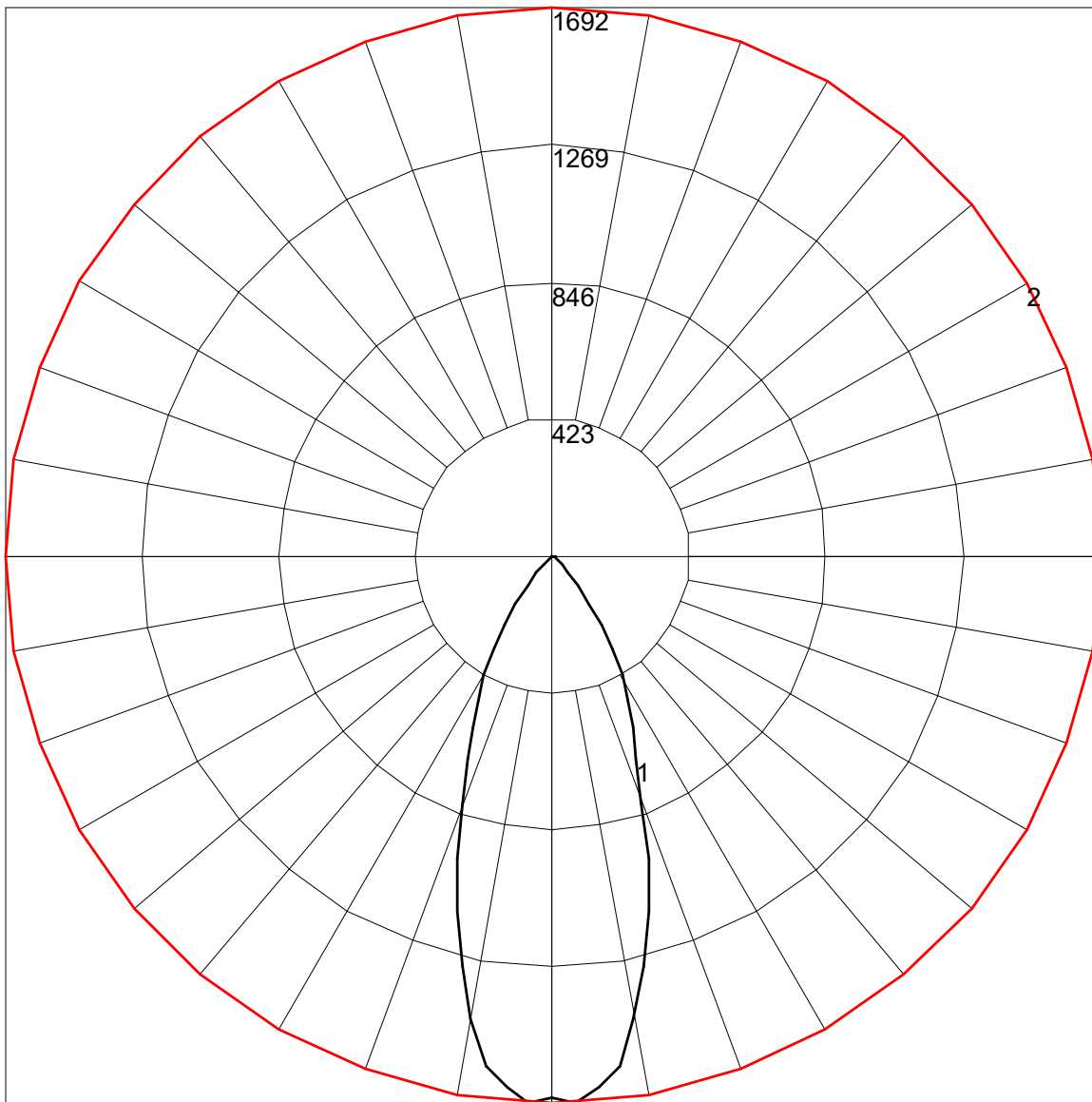
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UGR TABLE - CORRECTED

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	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 = 1692.487 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.)