



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P11-8TW-POE-ON-CS 3000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 2-JUL-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P11/8TW-PoE-ON-CS 3000k

[LUMINAIRE] 8.5 INCH RECESSED LED PoE DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM

[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	864
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	11.9
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	1439	1439	1439
55	129	129	129
65	81	81	81
75	51	51	51
85	30	30	30

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CANDELA TABULATION

	<u>0</u>
0.0	1535.935
2.5	1552.345
5.0	1515.058
7.5	1458.352
10.0	1331.927
12.5	1193.267
15.0	1047.131
17.5	900.121
20.0	744.081
22.5	622.317
25.0	535.023
27.5	463.655
30.0	391.121
32.5	316.256
35.0	242.168
37.5	171.480
40.0	110.112
42.5	66.708
45.0	37.287
47.5	16.022
50.0	5.340
52.5	3.301
55.0	2.719
57.5	2.330
60.0	1.942
62.5	1.554
65.0	1.262
67.5	0.971
70.0	0.777
72.5	0.583
75.0	0.485
77.5	0.388
80.0	0.291
82.5	0.194
85.0	0.097
87.5	0.097
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	426.93	N.A.	49.40
0-30	675.59	N.A.	78.20
0-40	826.10	N.A.	95.60
0-60	862.08	N.A.	99.80
0-80	863.88	N.A.	100.00
0-90	864.02	N.A.	100.00
10-90	724.74	N.A.	83.90
20-40	399.17	N.A.	46.20
20-50	432.49	N.A.	50.10
40-70	37.25	N.A.	4.30
60-80	1.79	N.A.	0.20
70-80	0.52	N.A.	0.10
80-90	0.15	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	864.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.28
10-20	287.64
20-30	248.67
30-40	150.51
40-50	33.32
50-60	2.67
60-70	1.27
70-80	0.52
80-90	0.15
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	33	33	33	33	32	32	32	32	30	30	30	29	29	29	28	28	28	27
1	31	30	30	29	31	30	29	29	29	28	28	28	27	27	27	27	26	26
2	30	29	28	27	29	28	27	26	27	26	26	26	26	25	26	25	25	24
3	28	27	26	25	28	26	25	24	26	25	24	25	24	24	25	24	23	23
4	27	25	24	23	27	25	24	23	24	23	22	24	23	22	23	23	22	22
5	26	24	22	21	26	24	22	21	23	22	21	23	22	21	22	21	21	20
6	25	23	21	20	24	22	21	20	22	21	20	22	21	20	21	20	20	19
7	24	21	20	19	23	21	20	19	21	20	19	21	19	19	20	19	19	18
8	23	20	19	18	22	20	19	18	20	19	18	20	18	18	19	18	18	17
9	22	19	18	17	21	19	18	17	19	18	17	19	18	17	19	17	17	16
10	21	18	17	16	21	18	17	16	18	17	16	18	17	16	18	17	16	16

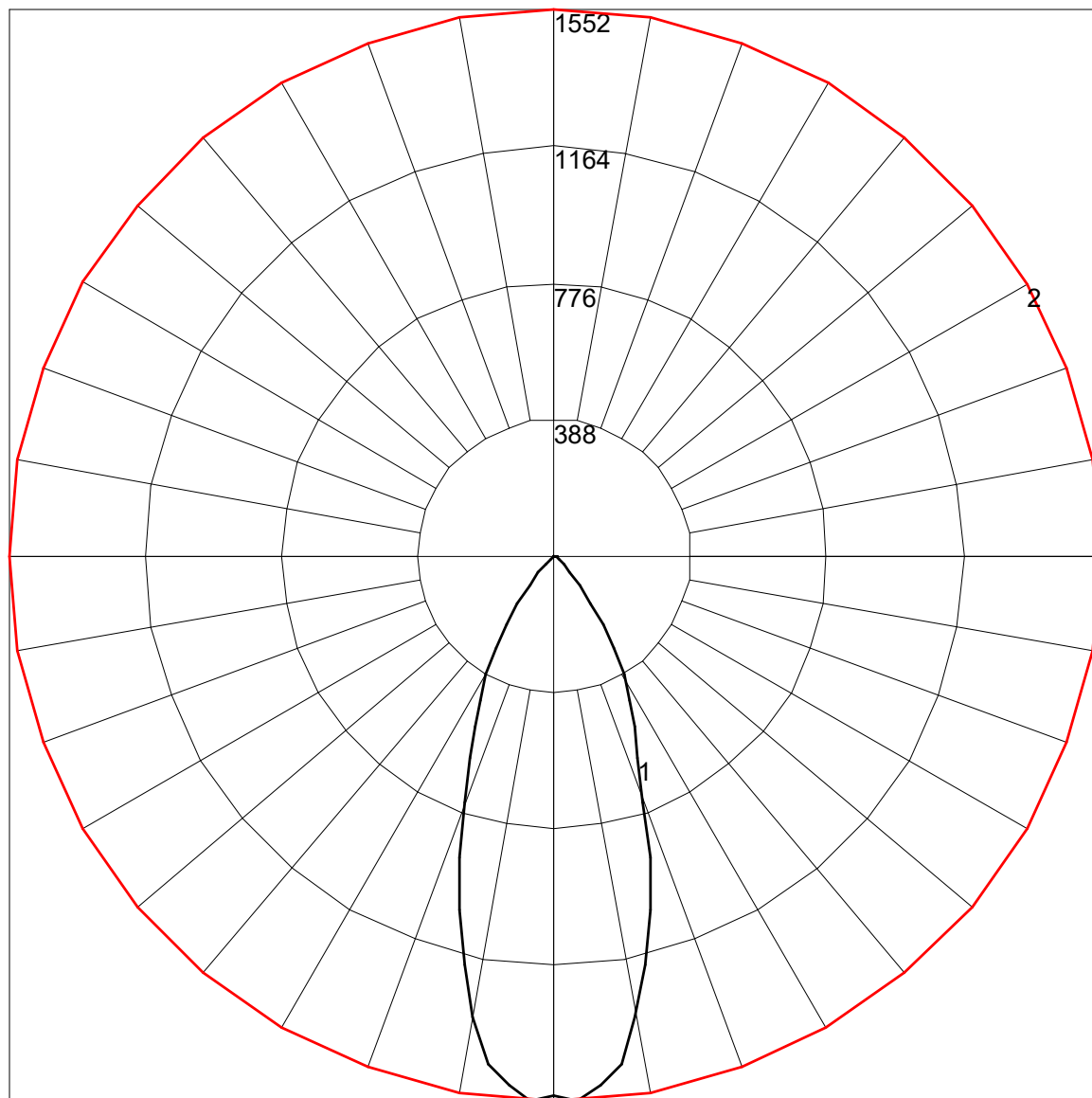
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UGR TABLE - CORRECTED

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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
4H	2H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
8H	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
12H	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Maximum UGR = 4.0

POLAR GRAPH



Maximum Candela = 1552.345 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.)