



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P44-8TW-POE-OM-CS 3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 2-JUL-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P44/8TW-PoE-OM-CS 3000k

[LUMINAIRE] 8.5 INCH RECESSED LED TUNABLE WHITE DOWNLIGHT PoE FIXTURE WITH 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	2758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	34.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.78
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	4347	4347	4347
55	694	694	694
65	480	480	480
75	319	319	319
85	173	173	173

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CANDELA TABULATION

	<u>0</u>
0.0	3937.323
2.5	3957.153
5.0	3949.166
7.5	3825.505
10.0	3809.806
12.5	3580.662
15.0	3319.844
17.5	3022.397
20.0	2678.129
22.5	2309.625
25.0	1926.523
27.5	1603.187
30.0	1273.792
32.5	967.255
35.0	718.831
37.5	507.589
40.0	330.222
42.5	200.226
45.0	112.645
47.5	52.053
50.0	24.512
52.5	18.177
55.0	14.597
57.5	12.394
60.0	10.466
62.5	8.813
65.0	7.436
67.5	6.059
70.0	4.958
72.5	4.131
75.0	3.029
77.5	2.203
80.0	1.377
82.5	1.102
85.0	0.551
87.5	0.276
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1286.55	N.A.	46.60
0-30	2171.84	N.A.	78.70
0-40	2630.87	N.A.	95.40
0-60	2746.6	N.A.	99.60
0-80	2757.31	N.A.	100.00
0-90	2758.03	N.A.	100.00
10-90	2388.33	N.A.	86.60
20-40	1344.32	N.A.	48.70
20-50	1446.11	N.A.	52.40
40-70	123.15	N.A.	4.50
60-80	10.71	N.A.	0.40
70-80	3.30	N.A.	0.10
80-90	0.71	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	2758.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	369.70
10-20	916.85
20-30	885.29
30-40	459.03
40-50	101.79
50-60	13.94
60-70	7.41
70-80	3.30
80-90	0.71
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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	82	82	82	80
1	91	89	87	85	89	87	86	84	84	83	81	81	80	79	78	78	77	75
2	87	83	80	78	85	82	79	77	79	77	75	77	75	74	75	73	72	71
3	83	78	74	71	81	77	74	71	75	72	70	73	71	69	71	69	68	66
4	79	73	69	66	78	73	69	66	71	68	65	69	67	64	68	65	64	62
5	75	69	65	62	74	68	64	61	67	64	61	66	63	60	65	62	60	59
6	72	65	61	58	71	65	61	58	64	60	57	63	59	57	61	59	56	55
7	69	62	57	54	68	61	57	54	60	57	54	59	56	54	59	56	53	52
8	66	59	54	51	65	58	54	51	57	54	51	57	53	51	56	53	50	49
9	63	56	51	48	62	55	51	48	55	51	48	54	50	48	53	50	48	47
10	60	53	49	46	59	53	49	46	52	48	46	51	48	45	51	48	45	44

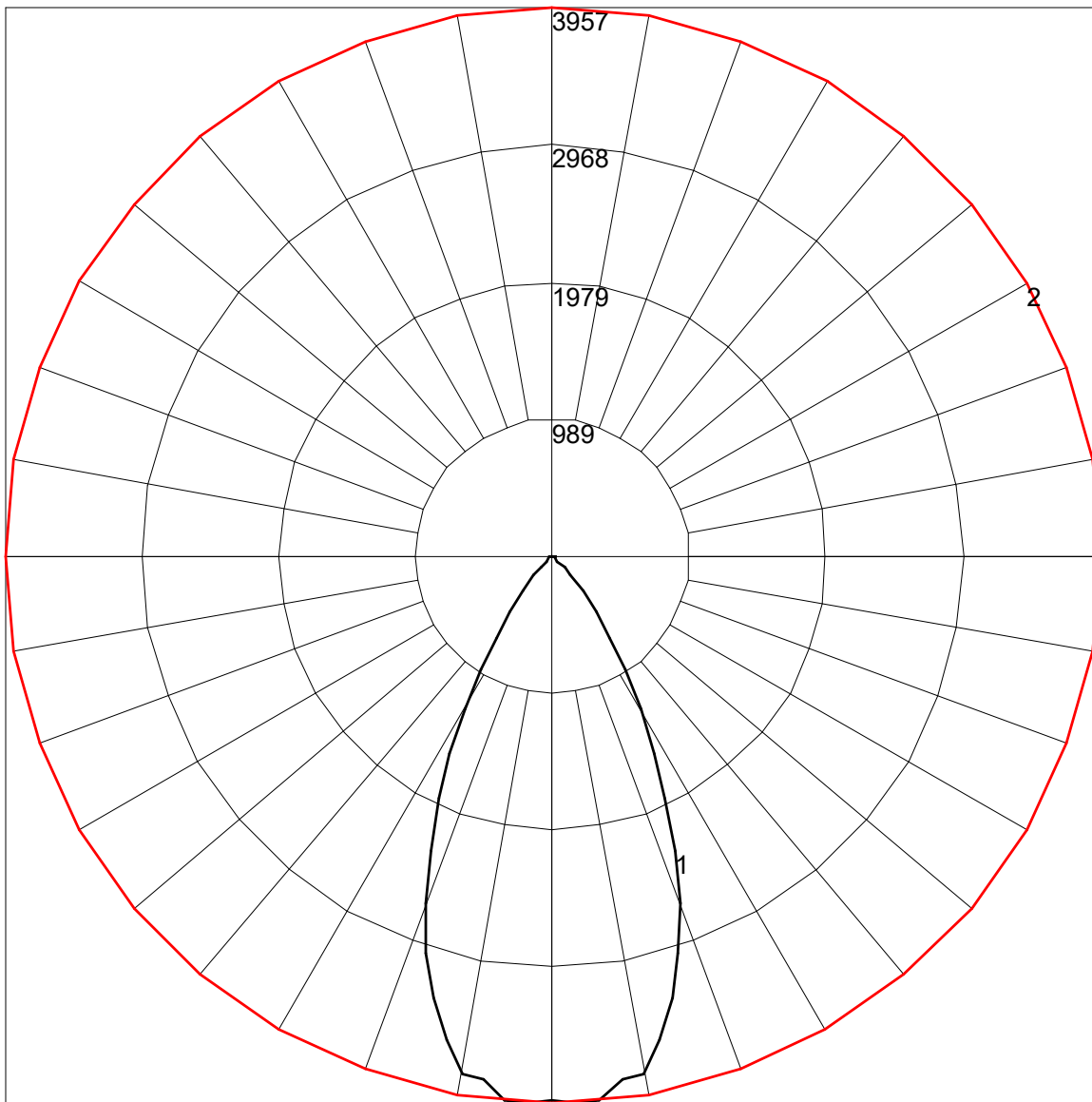
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**UGR TABLE - CORRECTED**

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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
4H	2H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
8H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
12H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

Maximum UGR = 4.3

POLAR GRAPH



Maximum Candela = 3957.153 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.)