



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P44-835-POE-OM-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 22-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P44/835-PoE-OM-CS

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT PoE FIXTURE WITH

[MORE]SEMI-SPECULAR TRIM

[LAMPCAT] X1-3500K LED

[LAMP] (1) 3500K LED MODULE

[ 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	4369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	47.7
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	6887	6887	6887
55	1100	1100	1100
65	761	761	761
75	506	506	506
85	273	273	273

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CANDELA TABULATION

	<u>0</u>
0.0	6237.188
2.5	6268.601
5.0	6255.949
7.5	6060.055
10.0	6035.187
12.5	5672.194
15.0	5259.029
17.5	4787.836
20.0	4242.475
22.5	3658.721
25.0	3051.841
27.5	2539.638
30.0	2017.837
32.5	1532.247
35.0	1138.714
37.5	804.081
40.0	523.110
42.5	317.182
45.0	178.442
47.5	82.459
50.0	38.830
52.5	28.795
55.0	23.123
57.5	19.633
60.0	16.579
62.5	13.961
65.0	11.779
67.5	9.599
70.0	7.854
72.5	6.544
75.0	4.799
77.5	3.490
80.0	2.182
82.5	1.745
85.0	0.873
87.5	0.437
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2038.05	N.A.	46.60
0-30	3440.45	N.A.	78.70
0-40	4167.61	N.A.	95.40
0-60	4350.94	N.A.	99.60
0-80	4367.91	N.A.	100.00
0-90	4369.04	N.A.	100.00
10-90	3783.39	N.A.	86.60
20-40	2129.55	N.A.	48.70
20-50	2290.8	N.A.	52.40
40-70	195.08	N.A.	4.50
60-80	16.97	N.A.	0.40
70-80	5.23	N.A.	0.10
80-90	1.13	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	4369.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	585.65
10-20	1452.4
20-30	1402.4
30-40	727.16
40-50	161.25
50-60	22.08
60-70	11.75
70-80	5.23
80-90	1.13
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	78	76	75	73	77	75	73	72	72	71	70	70	69	68	67	67	66	65
2	75	71	69	67	73	70	68	66	68	66	65	66	65	63	64	63	62	61
3	71	67	64	61	70	66	63	61	64	62	60	63	61	59	61	59	58	57
4	68	63	60	57	67	62	59	56	61	58	56	60	57	55	58	56	55	54
5	65	59	56	53	64	59	55	53	58	55	52	56	54	52	55	53	51	50
6	62	56	52	50	61	56	52	49	55	51	49	54	51	49	53	50	48	47
7	59	53	49	47	58	53	49	46	52	49	46	51	48	46	50	48	46	45
8	56	50	47	44	56	50	46	44	49	46	44	49	46	43	48	45	43	42
9	54	48	44	42	53	48	44	41	47	44	41	46	43	41	46	43	41	40
10	52	46	42	39	51	45	42	39	45	41	39	44	41	39	44	41	39	38

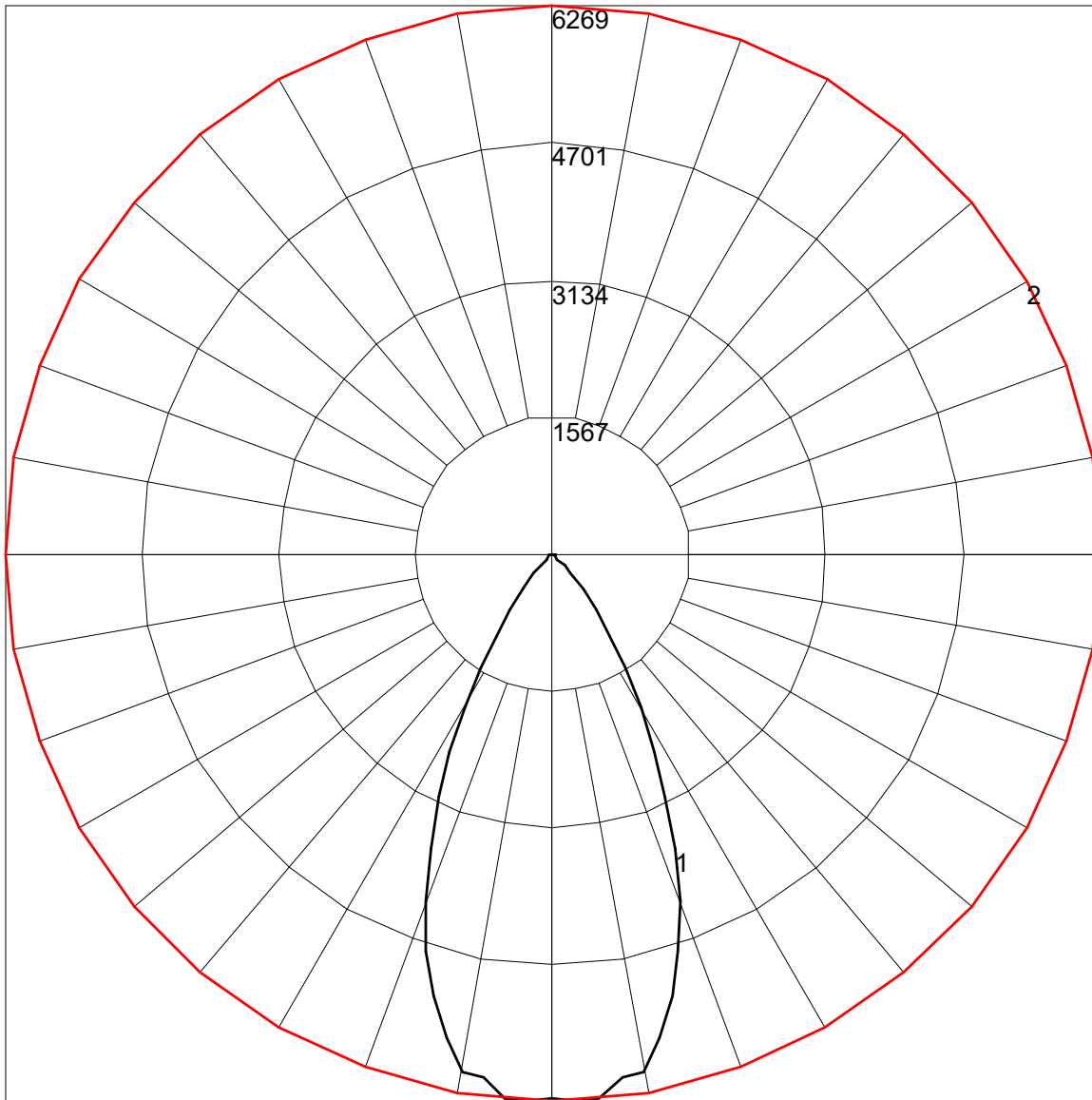
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**UGR TABLE - CORRECTED**

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	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	3H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
4H	2H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	3H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
8H	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
12H	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

Maximum UGR = 6.5

POLAR GRAPH



Maximum Candela = 6268.601 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.)