



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P44-835-POE-OW-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-OW-CS

[LUMINAIRE] 8.5 INCH RECESSED LED PoE DOWNLIGHT 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	4411
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)	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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10195	10195	10195
55	1693	1693	1693
65	1163	1163	1163
75	904	904	904
85	671	671	671

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CANDELA TABULATION

	<u>0</u>
0.0	4312.812
2.5	4318.387
5.0	4339.828
7.5	4257.063
10.0	4174.297
12.5	4121.121
15.0	3956.448
17.5	3809.357
20.0	3690.141
22.5	3570.066
25.0	3422.117
27.5	3162.243
30.0	2700.814
32.5	2196.074
35.0	1690.474
37.5	1216.181
40.0	798.065
42.5	485.443
45.0	264.164
47.5	115.786
50.0	57.035
52.5	44.599
55.0	35.594
57.5	29.590
60.0	24.873
62.5	21.013
65.0	18.011
67.5	15.009
70.0	12.436
72.5	10.292
75.0	8.577
77.5	6.861
80.0	5.146
82.5	3.430
85.0	2.144
87.5	0.858
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1520.77	N.A.	34.50
0-30	3053.14	N.A.	69.20
0-40	4105.69	N.A.	93.10
0-60	4381.71	N.A.	99.30
0-80	4408.77	N.A.	99.90
0-90	4411.22	N.A.	100.00
10-90	4003.71	N.A.	90.80
20-40	2584.92	N.A.	58.60
20-50	2827.4	N.A.	64.10
40-70	293.98	N.A.	6.70
60-80	27.06	N.A.	0.60
70-80	9.10	N.A.	0.20
80-90	2.45	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	4411.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	407.51
10-20	1113.26
20-30	1532.37
30-40	1052.55
40-50	242.48
50-60	33.54
60-70	17.96
70-80	9.10
80-90	2.45
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	78	76	74	73	76	74	73	72	72	70	69	69	68	67	67	66	65	64
2	74	71	68	65	72	69	67	65	67	65	63	65	63	62	63	62	61	59
3	70	66	62	59	69	65	62	59	63	60	58	61	59	57	60	58	56	55
4	67	61	57	54	65	60	57	54	59	56	53	58	55	53	56	54	52	51
5	63	57	53	50	62	57	53	50	55	52	49	54	51	49	53	51	49	48
6	60	54	49	46	59	53	49	46	52	48	46	51	48	46	50	47	45	44
7	57	50	46	43	56	50	46	43	49	45	43	48	45	42	47	44	42	41
8	54	47	43	40	53	47	43	40	46	42	40	45	42	40	45	42	40	39
9	51	44	40	38	50	44	40	37	43	40	37	43	40	37	42	39	37	36
10	49	42	38	35	48	42	38	35	41	37	35	40	37	35	40	37	35	34

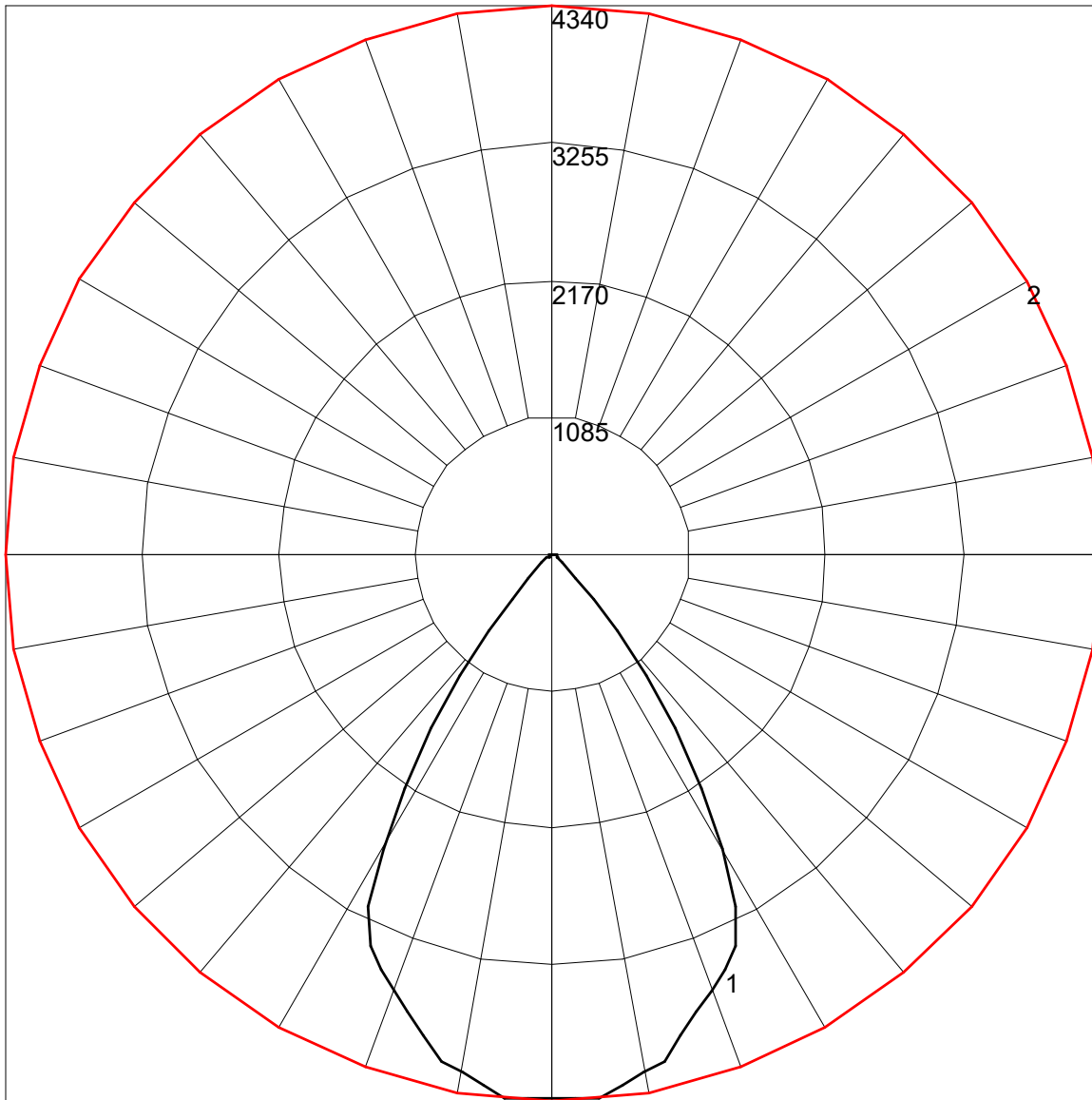
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**UGR TABLE - CORRECTED**

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	6.7	6.5	6.5	6.5	6.5	6.7
	6H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
	8H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
	12H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
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	6.7	6.5	6.5	6.5	6.5	6.7
	4H	6.5	6.5	6.5	6.8	7.2	6.5	6.5	6.5	6.8	7.2
	6H	6.5	6.7	6.6	7.1	7.6	6.5	6.7	6.6	7.1	7.6
	8H	6.5	6.7	6.8	7.2	7.7	6.5	6.7	6.8	7.2	7.7
	12H	6.5	6.7	6.8	7.2	7.7	6.5	6.7	6.8	7.2	7.7
8H	4H	6.5	6.5	6.5	6.8	7.3	6.5	6.5	6.5	6.8	7.3
	6H	6.5	6.8	6.9	7.3	7.8	6.5	6.8	6.9	7.3	7.8
	8H	6.6	6.9	7.1	7.4	7.9	6.6	6.9	7.1	7.4	7.9
	12H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1
12H	4H	6.5	6.5	6.5	6.7	7.2	6.5	6.5	6.5	6.7	7.2
	6H	6.5	6.7	7.0	7.2	7.8	6.5	6.7	7.0	7.2	7.8
	8H	6.6	6.9	7.1	7.4	8.0	6.6	6.9	7.1	7.4	8.0

Maximum UGR = 8.1

POLAR GRAPH



Maximum Candela = 4339.828 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.)