



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P64-835-POE-ON-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 21-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P64/835-PoE-ON-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	5827
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	69
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	9705	9705	9705
55	872	872	872
65	550	550	550
75	345	345	345
85	205	205	205

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CANDELA TABULATION

	<u>0</u>
0.0	10358.678
2.5	10469.350
5.0	10217.881
7.5	9835.441
10.0	8982.804
12.5	8047.654
15.0	7062.080
17.5	6070.612
20.0	5018.242
22.5	4197.039
25.0	3608.314
27.5	3126.987
30.0	2637.803
32.5	2132.900
35.0	1633.237
37.5	1156.495
40.0	742.619
42.5	449.893
45.0	251.469
47.5	108.053
50.0	36.017
52.5	22.265
55.0	18.336
57.5	15.717
60.0	13.097
62.5	10.478
65.0	8.514
67.5	6.548
70.0	5.239
72.5	3.929
75.0	3.274
77.5	2.619
80.0	1.964
82.5	1.310
85.0	0.655
87.5	0.655
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2879.28	N.A.	49.40
0-30	4556.33	N.A.	78.20
0-40	5571.39	N.A.	95.60
0-60	5814.06	N.A.	99.80
0-80	5826.16	N.A.	100.00
0-90	5827.14	N.A.	100.00
10-90	4887.79	N.A.	83.90
20-40	2692.11	N.A.	46.20
20-50	2916.81	N.A.	50.10
40-70	251.23	N.A.	4.30
60-80	12.10	N.A.	0.20
70-80	3.54	N.A.	0.10
80-90	0.98	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	5827.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	939.35
10-20	1939.93
20-30	1677.05
30-40	1015.06
40-50	224.69
50-60	17.98
60-70	8.56
70-80	3.54
80-90	0.98
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	127	127	127	127	124	124	124	124	119	119	119	114	114	114	109	109	109	107
1	122	119	117	115	119	117	115	113	113	111	109	109	107	106	105	104	103	101
2	117	112	108	104	114	110	106	103	107	104	101	103	101	99	100	99	97	95
3	111	105	100	96	109	104	99	95	101	97	94	98	95	93	96	93	91	90
4	106	99	94	89	104	98	93	89	95	91	88	93	90	87	91	88	86	84
5	102	93	88	84	100	92	87	83	91	86	82	89	85	82	87	84	81	80
6	97	88	83	78	96	88	82	78	86	81	78	85	80	77	83	79	77	75
7	93	84	78	74	92	83	78	74	82	77	73	81	76	73	79	75	72	71
8	89	80	74	70	88	79	73	70	78	73	69	77	72	69	76	72	69	67
9	85	76	70	66	84	75	70	66	74	69	66	73	69	66	73	68	65	64
10	82	72	67	63	81	72	66	63	71	66	63	70	66	62	69	65	62	61

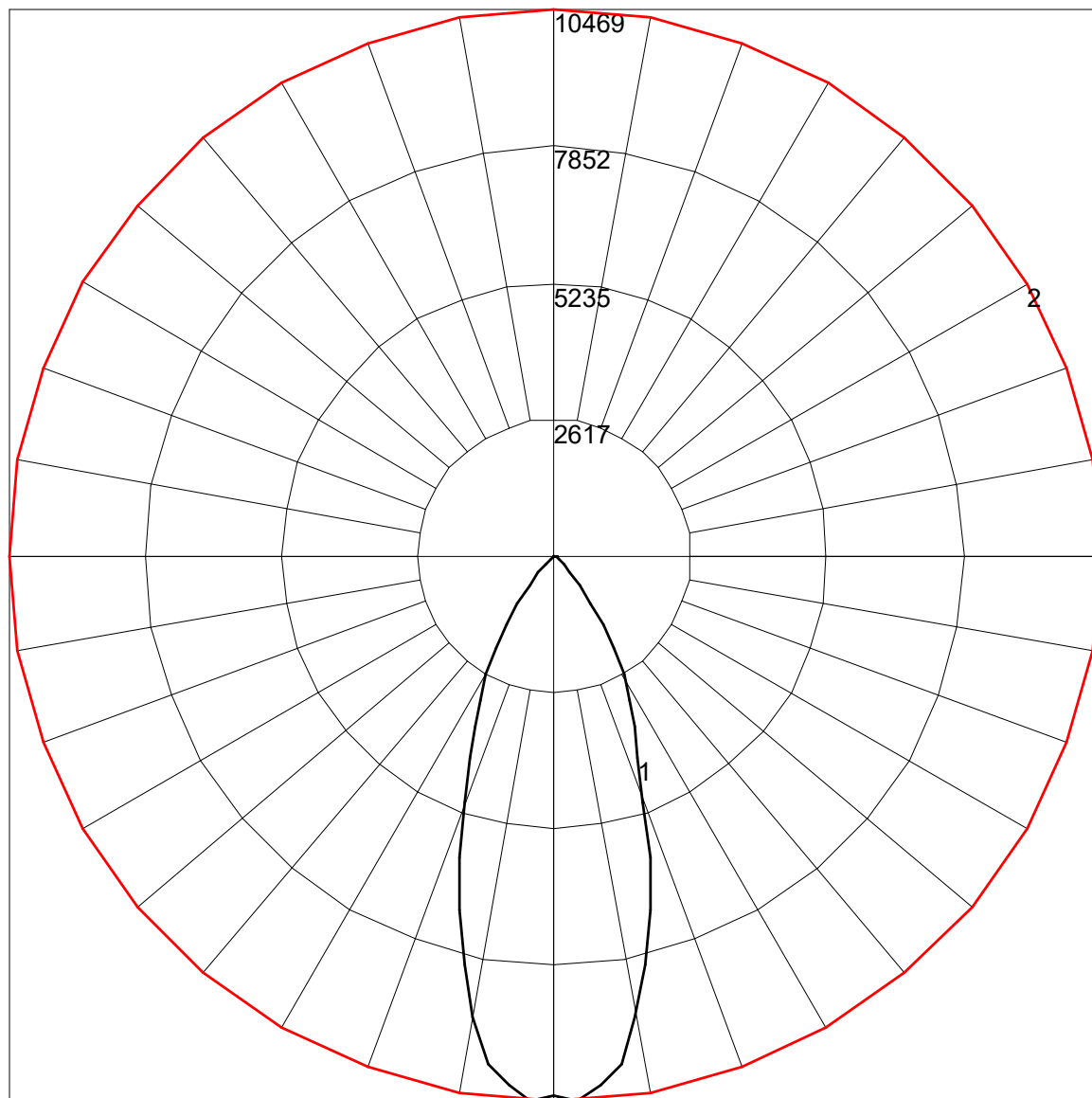
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**UGR TABLE - CORRECTED**

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 = 10469.35 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.)