



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P44-835-POE-ON-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-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

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	47.7
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	6665	6665	6665
55	599	599	599
65	378	378	378
75	237	237	237
85	141	141	141

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CANDELA TABULATION

	<u>0</u>
0.0	7114.366
2.5	7190.376
5.0	7017.667
7.5	6755.006
10.0	6169.413
12.5	5527.149
15.0	4850.255
17.5	4169.312
20.0	3446.541
22.5	2882.537
25.0	2478.199
27.5	2147.623
30.0	1811.650
32.5	1464.881
35.0	1121.711
37.5	794.284
40.0	510.033
42.5	308.988
45.0	172.709
47.5	74.211
50.0	24.737
52.5	15.292
55.0	12.593
57.5	10.795
60.0	8.995
62.5	7.196
65.0	5.847
67.5	4.497
70.0	3.598
72.5	2.699
75.0	2.249
77.5	1.799
80.0	1.349
82.5	0.900
85.0	0.450
87.5	0.450
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1977.5	N.A.	49.40
0-30	3129.3	N.A.	78.20
0-40	3826.45	N.A.	95.60
0-60	3993.11	N.A.	99.80
0-80	4001.42	N.A.	100.00
0-90	4002.1	N.A.	100.00
10-90	3356.95	N.A.	83.90
20-40	1848.95	N.A.	46.20
20-50	2003.27	N.A.	50.10
40-70	172.55	N.A.	4.30
60-80	8.31	N.A.	0.20
70-80	2.43	N.A.	0.10
80-90	0.67	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	4002.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	645.15
10-20	1332.35
20-30	1151.81
30-40	697.14
40-50	154.32
50-60	12.35
60-70	5.88
70-80	2.43
80-90	0.67
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	77	75	73	77	75	74	72	72	71	70	70	69	68	67	67	66	65
2	75	72	69	67	73	71	68	66	68	66	65	66	65	63	64	63	62	61
3	71	67	64	62	70	66	64	61	65	62	60	63	61	59	62	60	58	57
4	68	63	60	57	67	63	60	57	61	59	56	60	58	56	59	57	55	54
5	65	60	56	54	64	59	56	53	58	55	53	57	54	52	56	54	52	51
6	62	57	53	50	61	56	53	50	55	52	50	54	52	49	53	51	49	48
7	60	54	50	47	59	53	50	47	52	49	47	52	49	47	51	48	47	46
8	57	51	47	45	56	51	47	45	50	47	44	49	46	44	49	46	44	43
9	55	49	45	42	54	48	45	42	48	44	42	47	44	42	47	44	42	41
10	52	46	43	40	52	46	43	40	46	42	40	45	42	40	45	42	40	39

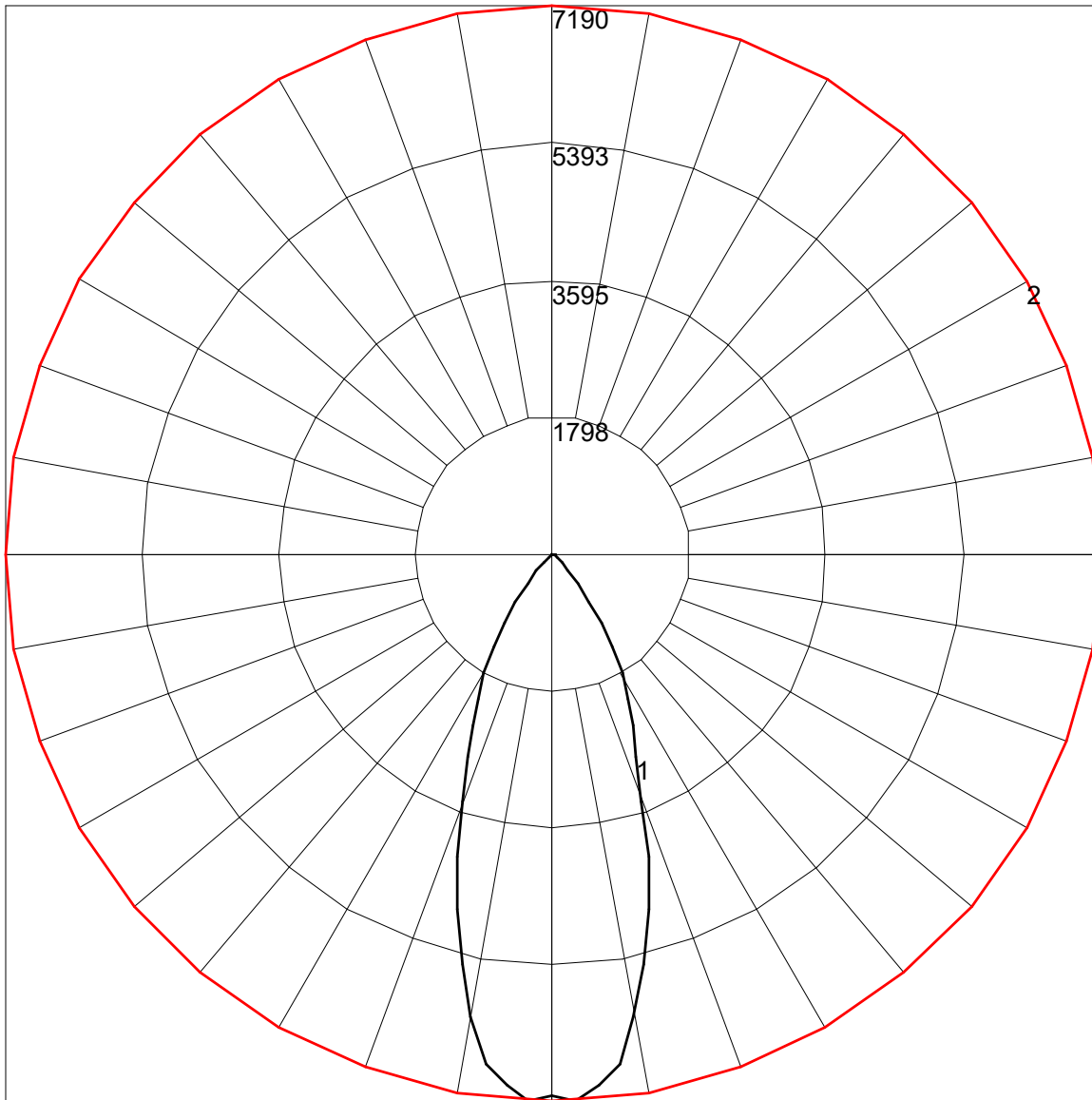
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UGR TABLE - CORRECTED

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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
4H	2H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
8H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

Maximum UGR = 6.2

POLAR GRAPH



Maximum Candela = 7190.376 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.)