



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P11-835-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-P11/835-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	1003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	11.6
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	1671	1671	1671
55	150	150	150
65	95	95	95
75	59	59	59
85	35	35	35

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CANDELA TABULATION

	<u>0</u>
0.0	1783.036
2.5	1802.086
5.0	1758.800
7.5	1692.971
10.0	1546.207
12.5	1385.240
15.0	1215.593
17.5	1044.932
20.0	863.788
22.5	722.435
25.0	621.098
27.5	538.247
30.0	454.044
32.5	367.135
35.0	281.128
37.5	199.067
40.0	127.827
42.5	77.440
45.0	43.285
47.5	18.599
50.0	6.200
52.5	3.833
55.0	3.156
57.5	2.705
60.0	2.254
62.5	1.804
65.0	1.465
67.5	1.127
70.0	0.902
72.5	0.676
75.0	0.564
77.5	0.451
80.0	0.338
82.5	0.226
85.0	0.113
87.5	0.113
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	495.61	N.A.	49.40
0-30	784.28	N.A.	78.20
0-40	959.00	N.A.	95.60
0-60	1000.77	N.A.	99.80
0-80	1002.86	N.A.	100.00
0-90	1003.02	N.A.	100.00
10-90	841.33	N.A.	83.90
20-40	463.39	N.A.	46.20
20-50	502.07	N.A.	50.10
40-70	43.24	N.A.	4.30
60-80	2.08	N.A.	0.20
70-80	0.61	N.A.	0.10
80-90	0.17	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	1003.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.69
10-20	333.92
20-30	288.67
30-40	174.72
40-50	38.68
50-60	3.09
60-70	1.47
70-80	0.61
80-90	0.17
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	20	20	20	20	20	20	20	20	19	19	19	18	18	18	18	18	18	17
1	20	19	19	18	19	19	18	18	18	18	18	17	17	17	17	17	17	16
2	19	18	17	17	18	18	17	17	17	17	16	17	16	16	16	16	16	15
3	18	17	16	15	18	17	16	15	16	16	15	16	15	15	15	15	15	14
4	17	16	15	14	17	16	15	14	15	15	14	15	14	14	15	14	14	14
5	16	15	14	13	16	15	14	13	15	14	13	14	14	13	14	13	13	13
6	16	14	13	13	15	14	13	13	14	13	12	14	13	12	13	13	12	12
7	15	13	13	12	15	13	12	12	13	12	12	13	12	12	13	12	12	11
8	14	13	12	11	14	13	12	11	13	12	11	12	12	11	12	12	11	11
9	14	12	11	11	14	12	11	11	12	11	11	12	11	11	12	11	11	10
10	13	12	11	10	13	12	11	10	11	11	10	11	11	10	11	10	10	10

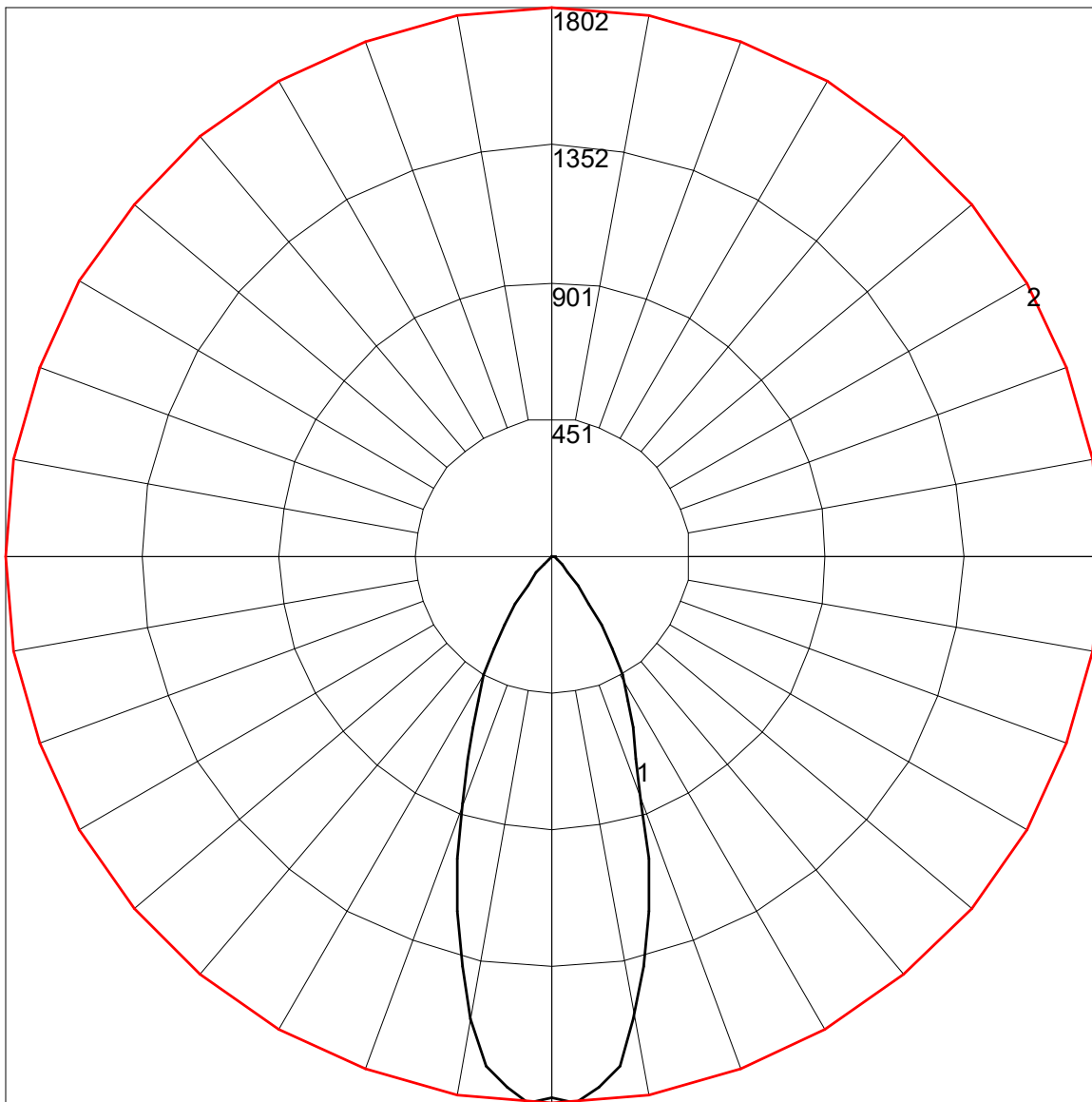
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**UGR TABLE - CORRECTED**

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 = 1802.086 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.)