



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P19-835-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-P19/835-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	1758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	22.8
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	2928	2928	2928
55	263	263	263
65	166	166	166
75	104	104	104
85	62	62	62

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CANDELA TABULATION

	<u>0</u>
0.0	3125.201
2.5	3158.591
5.0	3082.723
7.5	2967.341
10.0	2710.102
12.5	2427.968
15.0	2130.622
17.5	1831.497
20.0	1513.998
22.5	1266.242
25.0	1088.624
27.5	943.408
30.0	795.822
32.5	643.493
35.0	492.746
37.5	348.913
40.0	224.047
42.5	135.732
45.0	75.868
47.5	32.600
50.0	10.866
52.5	6.717
55.0	5.532
57.5	4.742
60.0	3.951
62.5	3.161
65.0	2.569
67.5	1.976
70.0	1.581
72.5	1.185
75.0	0.988
77.5	0.790
80.0	0.593
82.5	0.395
85.0	0.198
87.5	0.198
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	868.67	N.A.	49.40
0-30	1374.64	N.A.	78.20
0-40	1680.88	N.A.	95.60
0-60	1754.1	N.A.	99.80
0-80	1757.75	N.A.	100.00
0-90	1758.04	N.A.	100.00
10-90	1474.64	N.A.	83.90
20-40	812.21	N.A.	46.20
20-50	880.00	N.A.	50.10
40-70	75.80	N.A.	4.30
60-80	3.65	N.A.	0.20
70-80	1.07	N.A.	0.10
80-90	0.30	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	1758.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	283.40
10-20	585.27
20-30	505.97
30-40	306.24
40-50	67.79
50-60	5.42
60-70	2.58
70-80	1.07
80-90	0.30
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	36	36	36	36	35	35	35	35	34	34	34	32	32	32	31	31	31	30
1	34	34	33	32	34	33	32	32	32	31	31	31	30	30	30	29	29	28
2	33	31	30	29	32	31	30	29	30	29	28	29	28	28	28	28	27	27
3	31	30	28	27	31	29	28	27	28	27	26	28	27	26	27	26	26	25
4	30	28	26	25	29	28	26	25	27	26	25	26	25	24	26	25	24	24
5	29	26	25	24	28	26	25	23	26	24	23	25	24	23	25	24	23	22
6	27	25	23	22	27	25	23	22	24	23	22	24	23	22	23	22	22	21
7	26	24	22	21	26	23	22	21	23	22	21	23	21	21	22	21	20	20
8	25	22	21	20	25	22	21	20	22	21	20	22	20	19	21	20	19	19
9	24	21	20	19	24	21	20	19	21	20	19	21	19	18	20	19	18	18
10	23	20	19	18	23	20	19	18	20	19	18	20	19	18	20	18	18	17

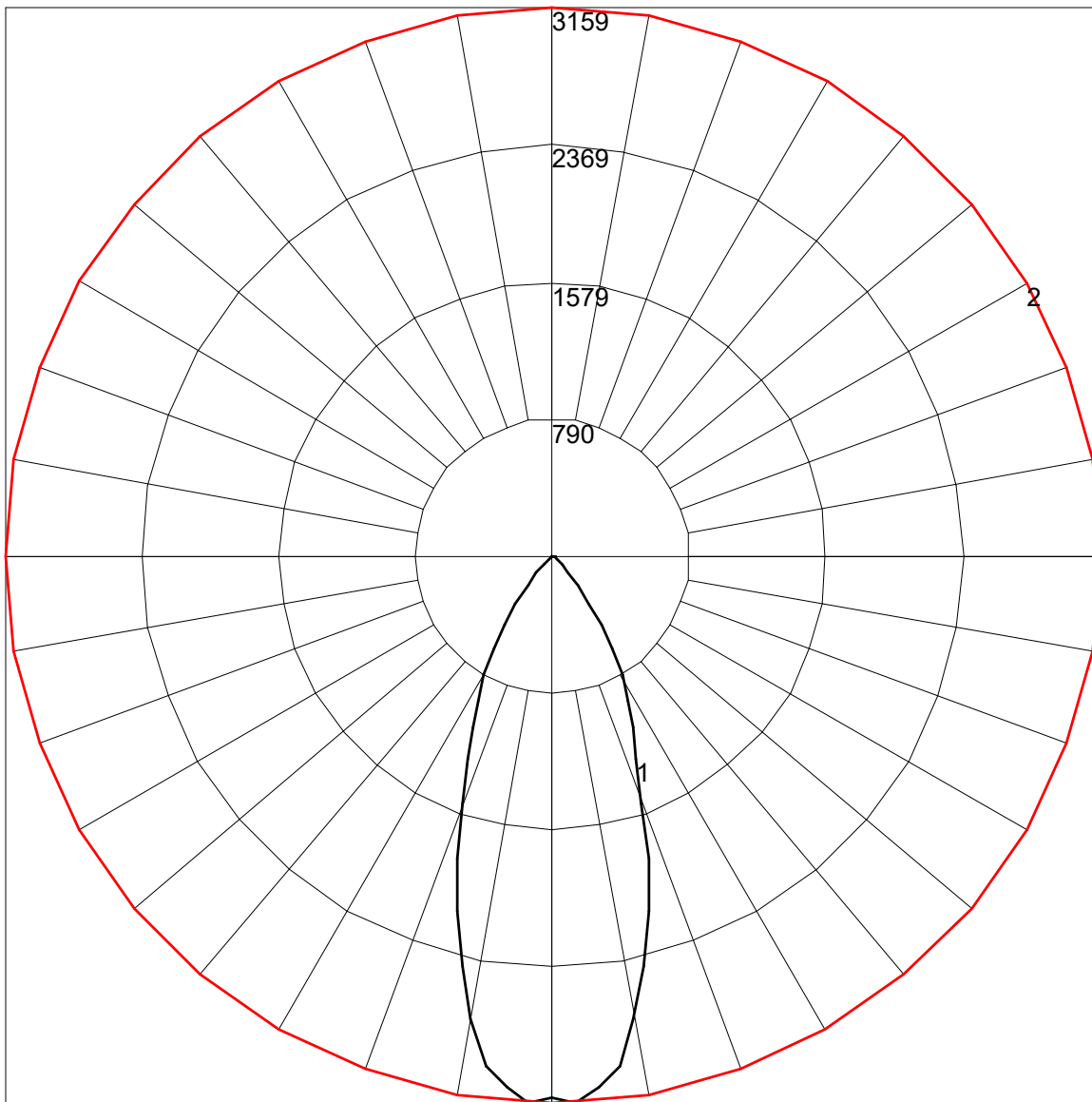
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UGR TABLE - CORRECTED

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 = 3158.591 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.)