



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P19-835-POE-OM-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-OM-CS

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT PoE 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	1919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	22.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.78
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	3025	3025	3025
55	483	483	483
65	334	334	334
75	222	222	222
85	120	120	120

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CANDELA TABULATION

	<u>0</u>
0.0	2739.566
2.5	2753.363
5.0	2747.806
7.5	2661.763
10.0	2650.840
12.5	2491.403
15.0	2309.928
17.5	2102.965
20.0	1863.426
22.5	1607.023
25.0	1340.463
27.5	1115.488
30.0	886.297
32.5	673.010
35.0	500.158
37.5	353.177
40.0	229.766
42.5	139.316
45.0	78.377
47.5	36.218
50.0	17.055
52.5	12.648
55.0	10.157
57.5	8.623
60.0	7.282
62.5	6.132
65.0	5.174
67.5	4.216
70.0	3.450
72.5	2.874
75.0	2.108
77.5	1.533
80.0	0.958
82.5	0.767
85.0	0.383
87.5	0.192
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	895.18	N.A.	46.60
0-30	1511.15	N.A.	78.70
0-40	1830.54	N.A.	95.40
0-60	1911.07	N.A.	99.60
0-80	1918.52	N.A.	100.00
0-90	1919.02	N.A.	100.00
10-90	1661.78	N.A.	86.60
20-40	935.37	N.A.	48.70
20-50	1006.19	N.A.	52.40
40-70	85.68	N.A.	4.50
60-80	7.46	N.A.	0.40
70-80	2.30	N.A.	0.10
80-90	0.50	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	1919.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	257.24
10-20	637.94
20-30	615.98
30-40	319.39
40-50	70.83
50-60	9.70
60-70	5.16
70-80	2.30
80-90	0.50
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	29	28	27	31	29	28	27	28	27	26	28	27	26	27	26	25	25
4	30	28	26	25	29	27	26	25	27	25	25	26	25	24	26	25	24	24
5	28	26	24	23	28	26	24	23	25	24	23	25	24	23	24	23	23	22
6	27	25	23	22	27	24	23	22	24	23	22	24	22	21	23	22	21	21
7	26	23	22	20	26	23	22	20	23	21	20	22	21	20	22	21	20	20
8	25	22	20	19	24	22	20	19	22	20	19	21	20	19	21	20	19	19
9	24	21	19	18	23	21	19	18	21	19	18	20	19	18	20	19	18	18
10	23	20	18	17	22	20	18	17	20	18	17	19	18	17	19	18	17	17

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UGR TABLE - CORRECTED

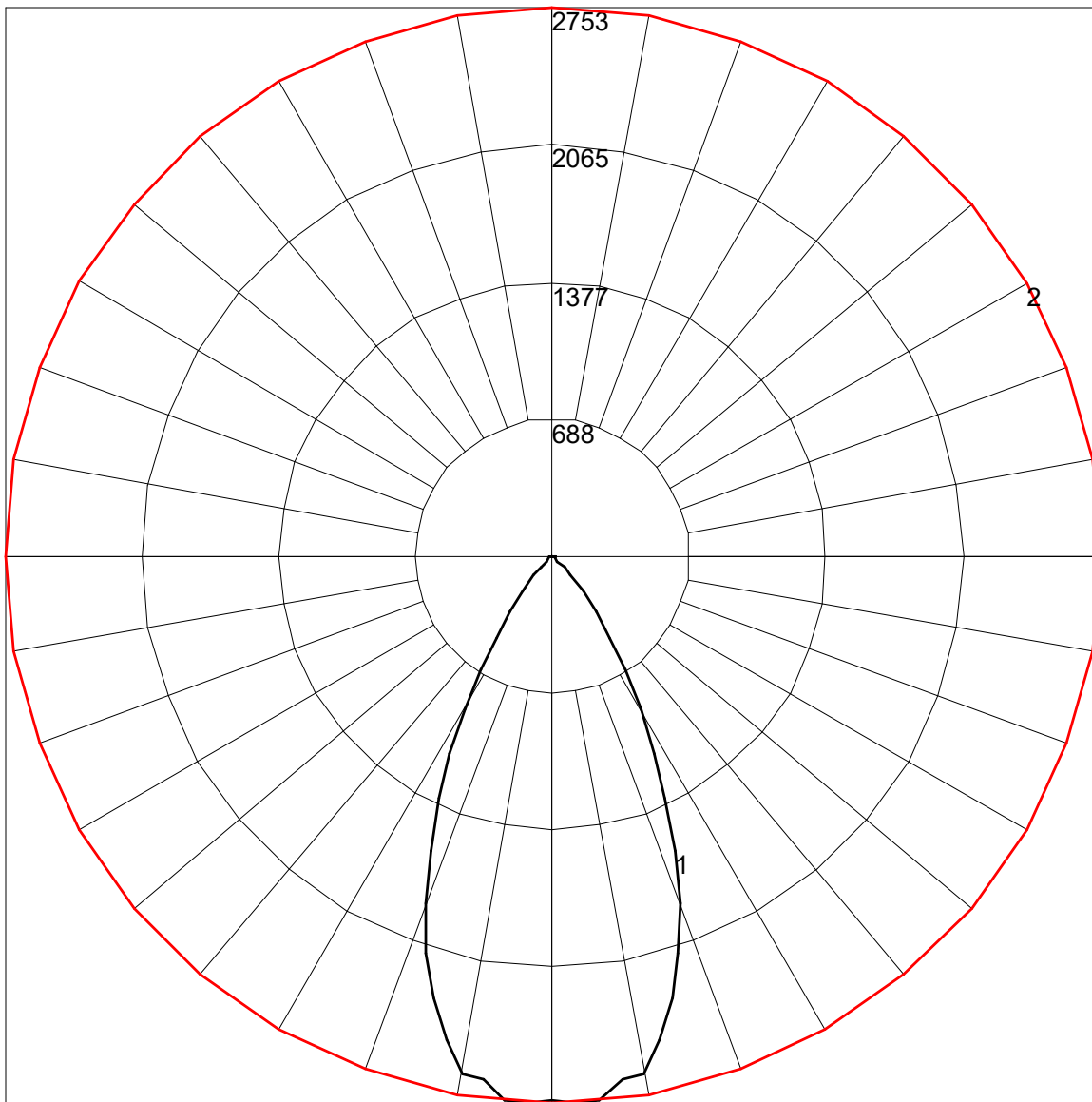
Reflectances

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	6.5	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	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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	6.5	6.5	6.5	6.5	6.5	6.5
	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
8H	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
12H	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

Maximum UGR = 6.5

POLAR GRAPH



Maximum Candela = 2753.363 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.)