



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P19-835-POE-OW-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-OW-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	1938
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	22.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.96
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	4479	4479	4479
55	744	744	744
65	511	511	511
75	397	397	397
85	295	295	295

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CANDELA TABULATION

	<u>0</u>
0.0	1894.861
2.5	1897.310
5.0	1906.730
7.5	1870.367
10.0	1834.003
12.5	1810.640
15.0	1738.290
17.5	1673.665
20.0	1621.286
22.5	1568.531
25.0	1503.529
27.5	1389.351
30.0	1186.619
32.5	964.859
35.0	742.720
37.5	534.337
40.0	350.635
42.5	213.282
45.0	116.062
47.5	50.871
50.0	25.059
52.5	19.595
55.0	15.638
57.5	13.000
60.0	10.928
62.5	9.232
65.0	7.913
67.5	6.594
70.0	5.464
72.5	4.522
75.0	3.768
77.5	3.015
80.0	2.261
82.5	1.507
85.0	0.942
87.5	0.377
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	668.16	N.A.	34.50
0-30	1341.42	N.A.	69.20
0-40	1803.86	N.A.	93.10
0-60	1925.13	N.A.	99.30
0-80	1937.02	N.A.	99.90
0-90	1938.1	N.A.	100.00
10-90	1759.05	N.A.	90.80
20-40	1135.7	N.A.	58.60
20-50	1242.24	N.A.	64.10
40-70	129.16	N.A.	6.70
60-80	11.89	N.A.	0.60
70-80	4.00	N.A.	0.20
80-90	1.08	N.A.	0.10
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	1938.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.04
10-20	489.12
20-30	673.26
30-40	462.45
40-50	106.53
50-60	14.74
60-70	7.89
70-80	4.00
80-90	1.08
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	36	36	36	36	35	35	35	35	34	34	34	32	32	32	31	31	31	30
1	34	33	33	32	33	33	32	31	31	31	30	30	30	30	29	29	29	28
2	32	31	30	29	32	30	29	28	30	29	28	29	28	27	28	27	27	26
3	31	29	27	26	30	28	27	26	28	26	25	27	26	25	26	25	25	24
4	29	27	25	24	29	27	25	24	26	25	23	25	24	23	25	24	23	22
5	28	25	23	22	27	25	23	22	24	23	22	24	23	22	23	22	21	21
6	26	24	22	20	26	23	22	20	23	21	20	22	21	20	22	21	20	19
7	25	22	20	19	25	22	20	19	21	20	19	21	20	19	21	20	19	18
8	24	21	19	18	23	21	19	18	20	19	18	20	18	17	20	18	17	17
9	22	20	18	16	22	19	18	16	19	17	16	19	17	16	19	17	16	16
10	21	18	17	15	21	18	17	15	18	16	15	18	16	15	18	16	15	15

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UGR TABLE - CORRECTED

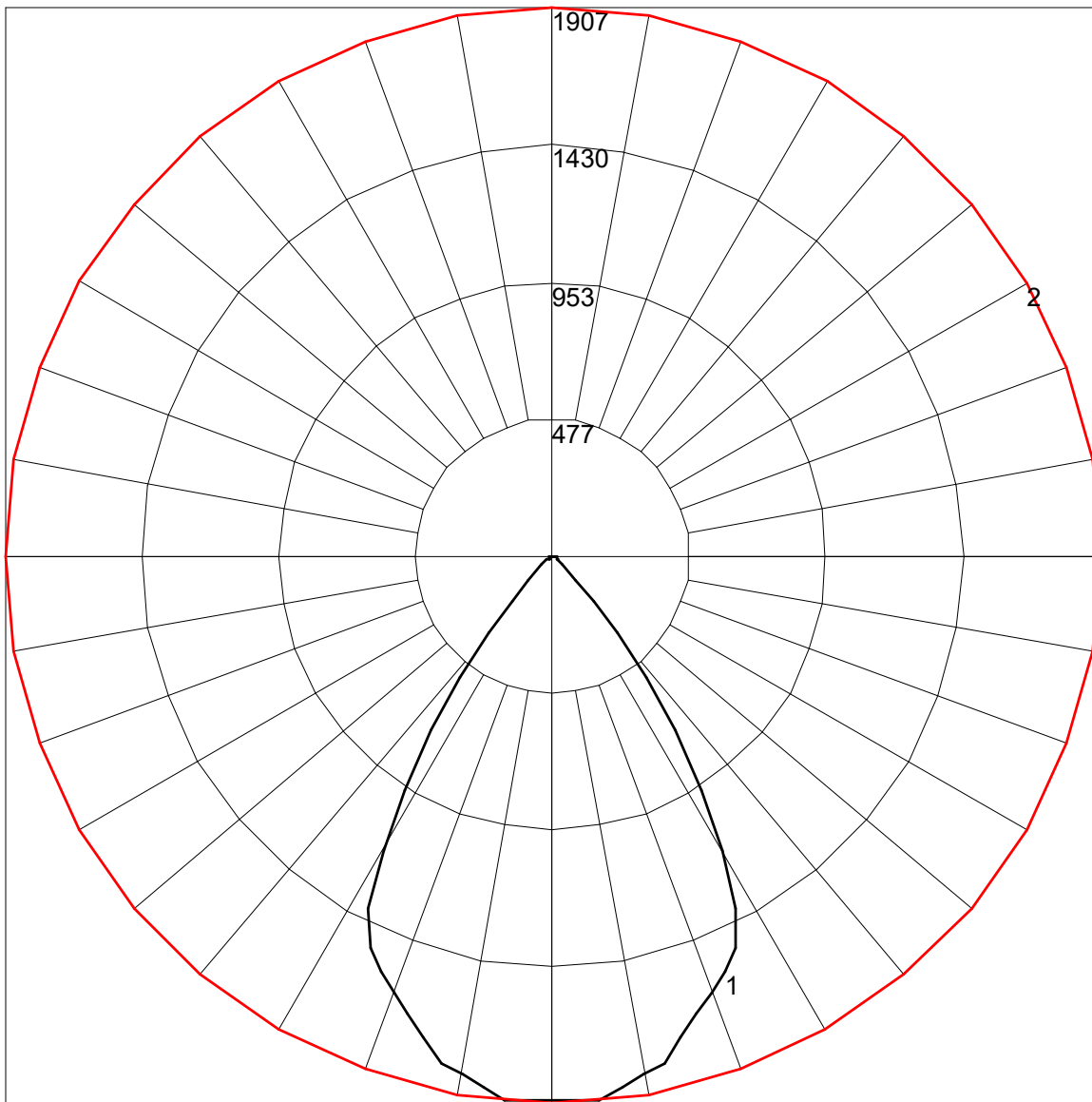
Reflectances

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	6.7	6.5	6.5	6.5	6.5	6.7
	6H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
	8H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
	12H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
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	6.7	6.5	6.5	6.5	6.5	6.7
	4H	6.5	6.5	6.5	6.8	7.2	6.5	6.5	6.5	6.8	7.2
	6H	6.5	6.7	6.6	7.1	7.6	6.5	6.7	6.6	7.1	7.6
	8H	6.5	6.7	6.8	7.2	7.7	6.5	6.7	6.8	7.2	7.7
	12H	6.5	6.7	6.8	7.2	7.7	6.5	6.7	6.8	7.2	7.7
8H	4H	6.5	6.5	6.5	6.8	7.3	6.5	6.5	6.5	6.8	7.3
	6H	6.5	6.8	6.9	7.3	7.8	6.5	6.8	6.9	7.3	7.8
	8H	6.6	6.9	7.1	7.4	7.9	6.6	6.9	7.1	7.4	7.9
	12H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1
12H	4H	6.5	6.5	6.5	6.7	7.2	6.5	6.5	6.5	6.7	7.2
	6H	6.5	6.7	7.0	7.2	7.8	6.5	6.7	7.0	7.2	7.8
	8H	6.6	6.9	7.1	7.4	8.0	6.6	6.9	7.1	7.4	8.0

Maximum UGR = 8.1

POLAR GRAPH



Maximum Candela = 1906.73 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)