



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P34-835-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-P34/835-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	3068
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	34.9
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	5110	5110	5110
55	459	459	459
65	289	289	289
75	182	182	182
85	108	108	108

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CANDELA TABULATION

	<u>0</u>
0.0	5453.992
2.5	5512.263
5.0	5379.861
7.5	5178.500
10.0	4729.575
12.5	4237.205
15.0	3718.286
17.5	3196.264
20.0	2642.176
22.5	2209.801
25.0	1899.829
27.5	1646.403
30.0	1388.841
32.5	1123.002
35.0	859.923
37.5	608.911
40.0	391.000
42.5	236.875
45.0	132.402
47.5	56.892
50.0	18.964
52.5	11.723
55.0	9.654
57.5	8.275
60.0	6.896
62.5	5.517
65.0	4.483
67.5	3.448
70.0	2.759
72.5	2.069
75.0	1.724
77.5	1.379
80.0	1.034
82.5	0.690
85.0	0.345
87.5	0.345
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1515.98	N.A.	49.40
0-30	2398.97	N.A.	78.20
0-40	2933.42	N.A.	95.60
0-60	3061.19	N.A.	99.80
0-80	3067.56	N.A.	100.00
0-90	3068.07	N.A.	100.00
10-90	2573.49	N.A.	83.90
20-40	1417.44	N.A.	46.20
20-50	1535.74	N.A.	50.10
40-70	132.28	N.A.	4.30
60-80	6.37	N.A.	0.20
70-80	1.86	N.A.	0.10
80-90	0.52	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	3068.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	494.58
10-20	1021.4
20-30	882.99
30-40	534.44
40-50	118.30
50-60	9.46
60-70	4.51
70-80	1.86
80-90	0.52
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	63	63	63	63	61	61	61	61	59	59	59	56	56	56	54	54	54	53
1	60	59	57	56	59	58	56	55	55	55	54	53	53	52	52	51	51	50
2	57	55	53	51	56	54	52	51	52	51	50	51	50	49	49	48	48	47
3	55	52	49	47	54	51	49	47	50	48	46	48	47	46	47	46	45	44
4	52	49	46	44	51	48	46	44	47	45	43	46	44	43	45	43	42	41
5	50	46	43	41	49	45	43	41	45	42	41	44	42	40	43	41	40	39
6	48	43	41	39	47	43	40	38	42	40	38	42	40	38	41	39	38	37
7	46	41	38	36	45	41	38	36	40	38	36	40	37	36	39	37	36	35
8	44	39	36	34	43	39	36	34	38	36	34	38	36	34	37	35	34	33
9	42	37	34	33	41	37	34	32	37	34	32	36	34	32	36	34	32	32
10	40	36	33	31	40	35	33	31	35	32	31	35	32	31	34	32	31	30

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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

X=2H	Y=2H	6.2	6.2	6.2	6.2	6.2	UGR Viewed Endwise	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	6.2
	4H	6.2	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	6.2
	8H	6.2	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	6.2

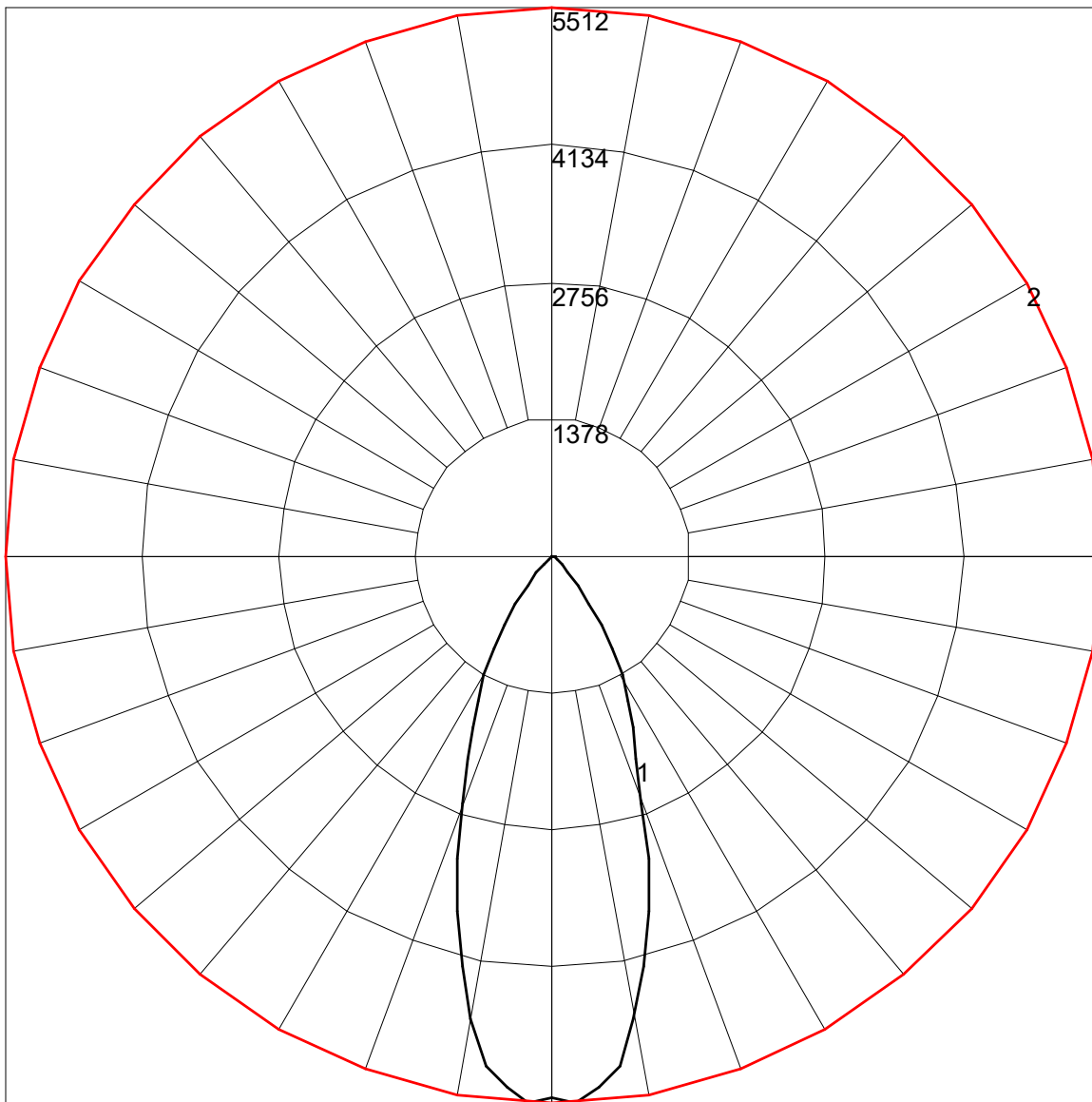
4H	2H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

8H	4H	6.2	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	6.2
	8H	6.2	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	6.2

12H	4H	6.2	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	6.2
	8H	6.2	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 = 5512.263 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.)