



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P34-835-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-P34/835-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

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3382
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	34.9
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	7817	7817	7817
55	1298	1298	1298
65	892	892	892
75	693	693	693
85	515	515	515

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CANDELA TABULATION

	<u>0</u>
0.0	3306.717
2.5	3310.992
5.0	3327.431
7.5	3263.973
10.0	3200.515
12.5	3159.744
15.0	3033.486
17.5	2920.708
20.0	2829.303
22.5	2737.239
25.0	2623.804
27.5	2424.553
30.0	2070.767
32.5	1683.772
35.0	1296.120
37.5	932.470
40.0	611.892
42.5	372.199
45.0	202.539
47.5	88.775
50.0	43.730
52.5	34.195
55.0	27.290
57.5	22.687
60.0	19.071
62.5	16.111
65.0	13.809
67.5	11.508
70.0	9.535
72.5	7.891
75.0	6.576
77.5	5.261
80.0	3.946
82.5	2.630
85.0	1.644
87.5	0.658
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1166.01	N.A.	34.50
0-30	2340.9	N.A.	69.20
0-40	3147.92	N.A.	93.10
0-60	3359.54	N.A.	99.30
0-80	3380.29	N.A.	99.90
0-90	3382.17	N.A.	100.00
10-90	3069.72	N.A.	90.80
20-40	1981.91	N.A.	58.60
20-50	2167.82	N.A.	64.10
40-70	225.40	N.A.	6.70
60-80	20.75	N.A.	0.60
70-80	6.98	N.A.	0.20
80-90	1.88	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	3382.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	312.45
10-20	853.56
20-30	1174.9
30-40	807.01
40-50	185.91
50-60	25.72
60-70	13.77
70-80	6.98
80-90	1.88
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	58	57	56	58	57	56	55	55	54	53	53	52	52	51	51	50	49
2	57	54	52	50	56	53	51	50	51	50	48	50	49	47	48	47	46	46
3	54	50	48	46	53	50	47	45	48	46	44	47	45	44	46	44	43	42
4	51	47	44	42	50	46	44	41	45	43	41	44	42	41	43	41	40	39
5	48	44	41	38	47	43	40	38	42	40	38	42	39	38	41	39	37	36
6	46	41	38	36	45	41	38	35	40	37	35	39	37	35	38	36	35	34
7	43	39	35	33	43	38	35	33	37	35	33	37	34	33	36	34	32	32
8	41	36	33	31	41	36	33	31	35	33	31	35	32	30	34	32	30	30
9	39	34	31	29	39	34	31	29	33	31	29	33	30	28	32	30	28	28
10	37	32	29	27	37	32	29	27	31	29	27	31	29	27	31	28	27	26

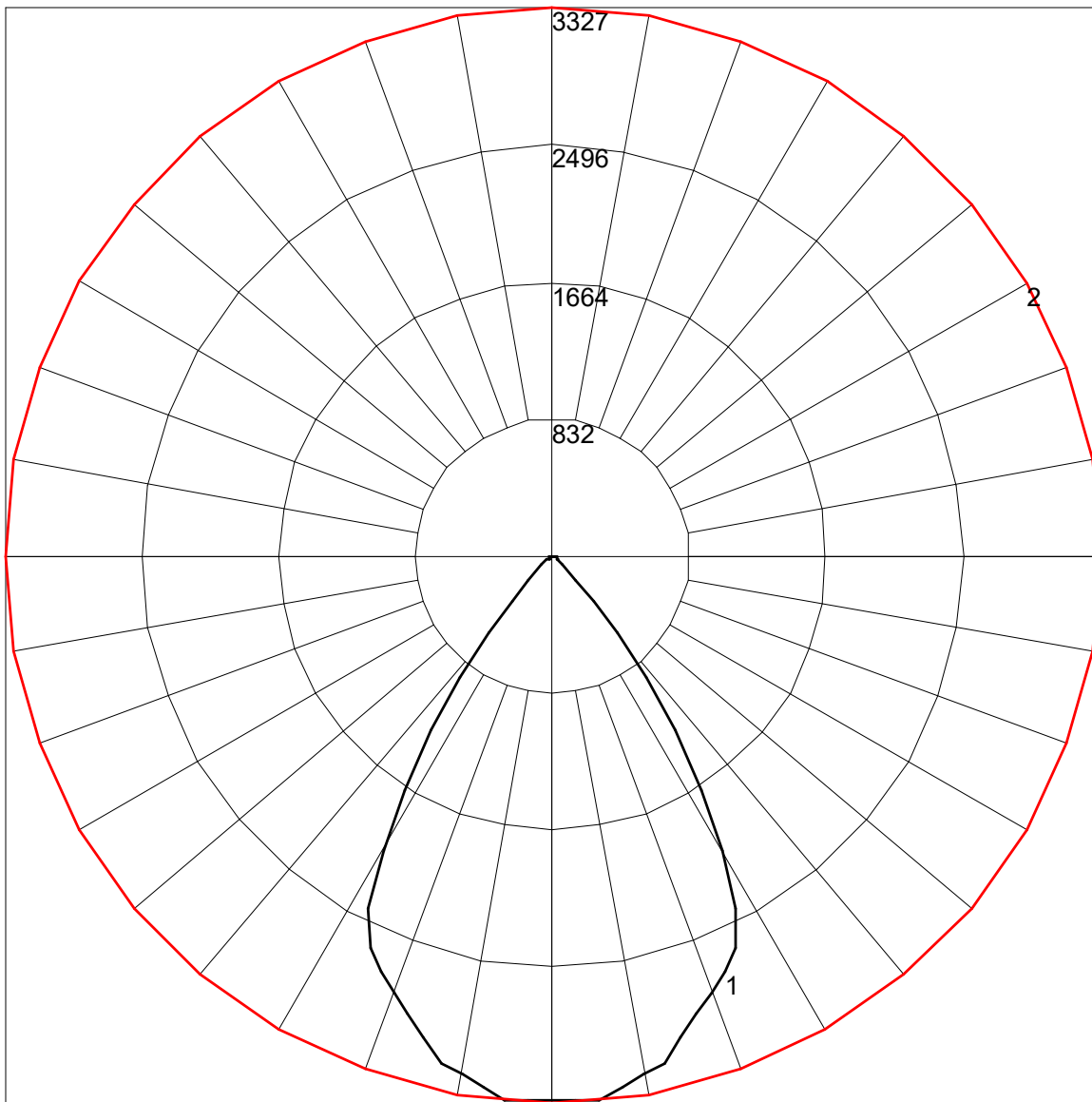
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UGR TABLE - CORRECTED

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 = 3327.431 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.)