



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P64-835-POE-OM-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 21-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P64/835-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.

[ABSOLUTE LUMENS]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	6361
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	69
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	10027	10027	10027
55	1602	1602	1602
65	1107	1107	1107
75	737	737	737
85	398	398	398

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CANDELA TABULATION

	<u>0</u>
0.0	9080.972
2.5	9126.707
5.0	9108.287
7.5	8823.077
10.0	8786.869
12.5	8258.374
15.0	7656.830
17.5	6970.802
20.0	6176.789
22.5	5326.878
25.0	4443.298
27.5	3697.561
30.0	2937.850
32.5	2230.860
35.0	1657.900
37.5	1170.694
40.0	761.617
42.5	461.798
45.0	259.801
47.5	120.055
50.0	56.534
52.5	41.924
55.0	33.666
57.5	28.584
60.0	24.138
62.5	20.327
65.0	17.150
67.5	13.975
70.0	11.434
72.5	9.528
75.0	6.987
77.5	5.082
80.0	3.177
82.5	2.541
85.0	1.270
87.5	0.636
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2967.28	N.A.	46.60
0-30	5009.09	N.A.	78.70
0-40	6067.79	N.A.	95.40
0-60	6334.71	N.A.	99.60
0-80	6359.42	N.A.	100.00
0-90	6361.06	N.A.	100.00
10-90	5508.39	N.A.	86.60
20-40	3100.5	N.A.	48.70
20-50	3335.27	N.A.	52.40
40-70	284.02	N.A.	4.50
60-80	24.71	N.A.	0.40
70-80	7.61	N.A.	0.10
80-90	1.64	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	6361.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	852.67
10-20	2114.61
20-30	2041.81
30-40	1058.69
40-50	234.77
50-60	32.15
60-70	17.10
70-80	7.61
80-90	1.64
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	127	127	127	127	124	124	124	124	119	119	119	114	114	114	109	109	109	107
1	122	119	117	114	119	117	114	112	112	111	109	108	107	106	105	104	103	101
2	116	111	107	104	114	110	106	103	106	103	101	103	101	98	100	98	96	95
3	111	105	100	96	109	103	98	95	100	96	93	98	95	92	95	93	90	89
4	106	98	93	89	104	97	92	88	95	90	87	93	89	86	91	88	85	83
5	101	93	87	83	99	92	86	82	90	85	81	88	84	81	86	83	80	79
6	96	88	82	77	95	87	81	77	85	80	76	84	79	76	82	78	75	74
7	92	83	77	73	91	82	76	72	81	76	72	80	75	72	78	74	71	70
8	88	79	73	68	87	78	72	68	77	72	68	76	71	68	75	71	67	66
9	84	75	69	65	83	74	68	65	73	68	64	72	67	64	71	67	64	63
10	81	71	65	61	80	71	65	61	70	65	61	69	64	61	68	64	61	59

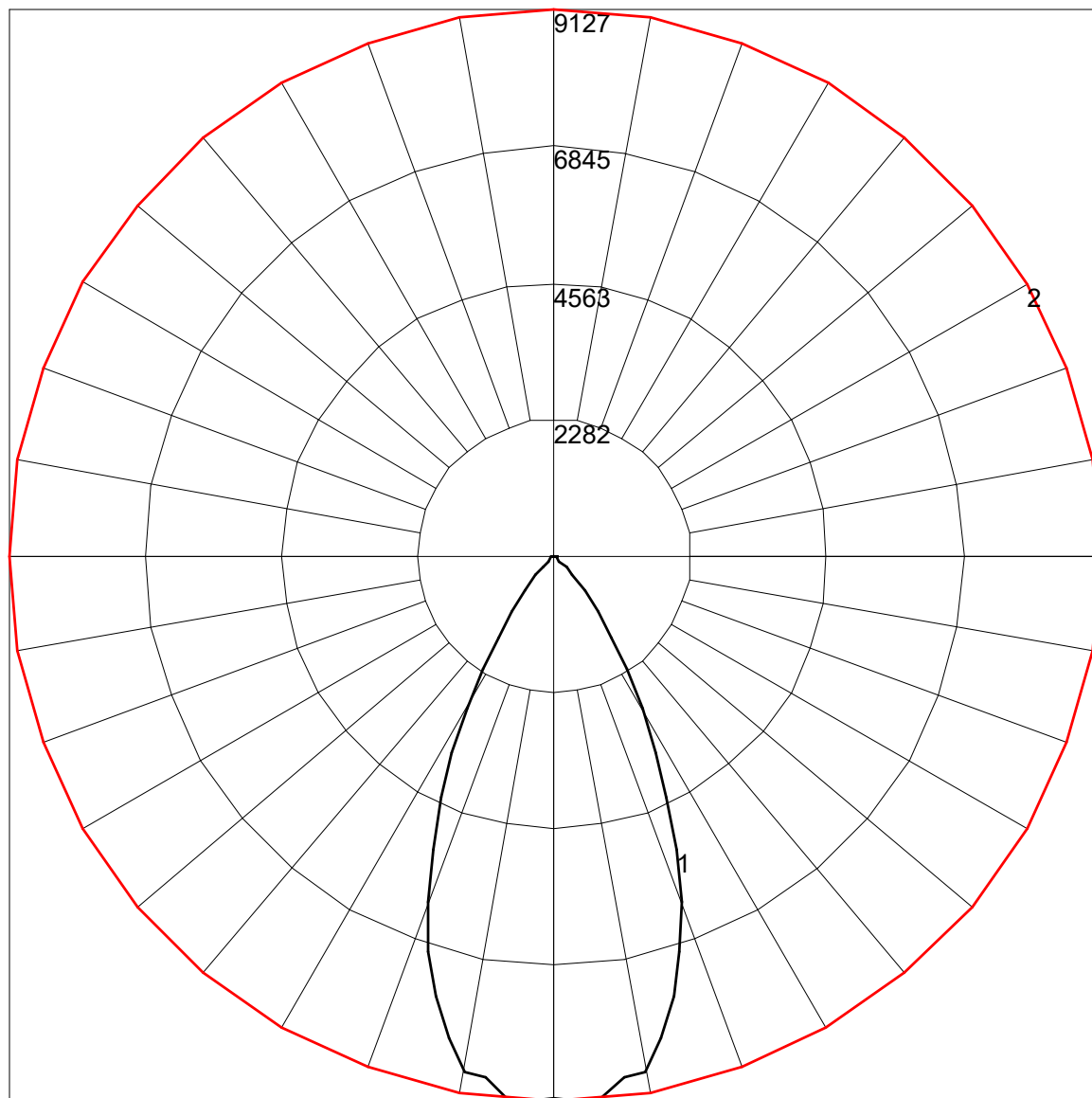
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UGR TABLE - CORRECTED

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 = 9126.707 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.)