



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-835-ON-CS-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMEN CATEGORY] 8DR-TL-L40/835-ON-CS-DIM-UNV

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) ELECTRONIC DRIVER

[LAMP CATEGORY] 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

[ CONVERT] Photometric web converted from original test data

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3634
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	46.4
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	6053	6053	6053
55	544	544	544
65	343	343	343
75	215	215	215
85	128	128	128

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CANDELA TABULATION

	<u>0</u>
0.0	6460.171
2.5	6529.192
5.0	6372.364
7.5	6133.856
10.0	5602.110
12.5	5018.905
15.0	4404.254
17.5	3785.927
20.0	3129.618
22.5	2617.476
25.0	2250.319
27.5	1950.140
30.0	1645.061
32.5	1330.179
35.0	1018.565
37.5	721.246
40.0	463.133
42.5	280.575
45.0	156.828
47.5	67.387
50.0	22.462
52.5	13.886
55.0	11.435
57.5	9.802
60.0	8.168
62.5	6.534
65.0	5.309
67.5	4.084
70.0	3.268
72.5	2.450
75.0	2.042
77.5	1.633
80.0	1.225
82.5	0.817
85.0	0.409
87.5	0.409
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1795.66	N.A.	49.40
0-30	2841.55	N.A.	78.20
0-40	3474.59	N.A.	95.60
0-60	3625.93	N.A.	99.80
0-80	3633.48	N.A.	100.00
0-90	3634.09	N.A.	100.00
10-90	3048.26	N.A.	83.90
20-40	1678.93	N.A.	46.20
20-50	1819.06	N.A.	50.10
40-70	156.68	N.A.	4.30
60-80	7.55	N.A.	0.20
70-80	2.21	N.A.	0.10
80-90	0.61	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	3634.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	585.82
10-20	1209.83
20-30	1045.89
30-40	633.04
40-50	140.13
50-60	11.21
60-70	5.34
70-80	2.21
80-90	0.61
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	79	79	79	79	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	76	74	73	71	74	73	72	70	70	69	68	68	67	66	65	65	64	63
2	73	70	67	65	71	69	66	64	66	65	63	64	63	62	63	61	60	59
3	69	65	62	60	68	65	62	60	63	61	59	61	59	58	60	58	57	56
4	66	62	58	56	65	61	58	55	60	57	55	58	56	54	57	55	54	53
5	63	58	55	52	62	58	54	52	56	54	51	55	53	51	54	52	51	50
6	61	55	51	49	60	55	51	49	54	51	48	53	50	48	52	50	48	47
7	58	52	49	46	57	52	48	46	51	48	46	50	48	45	50	47	45	44
8	55	50	46	44	55	49	46	43	49	45	43	48	45	43	47	45	43	42
9	53	47	44	41	52	47	44	41	46	43	41	46	43	41	45	43	41	40
10	51	45	42	39	50	45	41	39	44	41	39	44	41	39	43	41	39	38

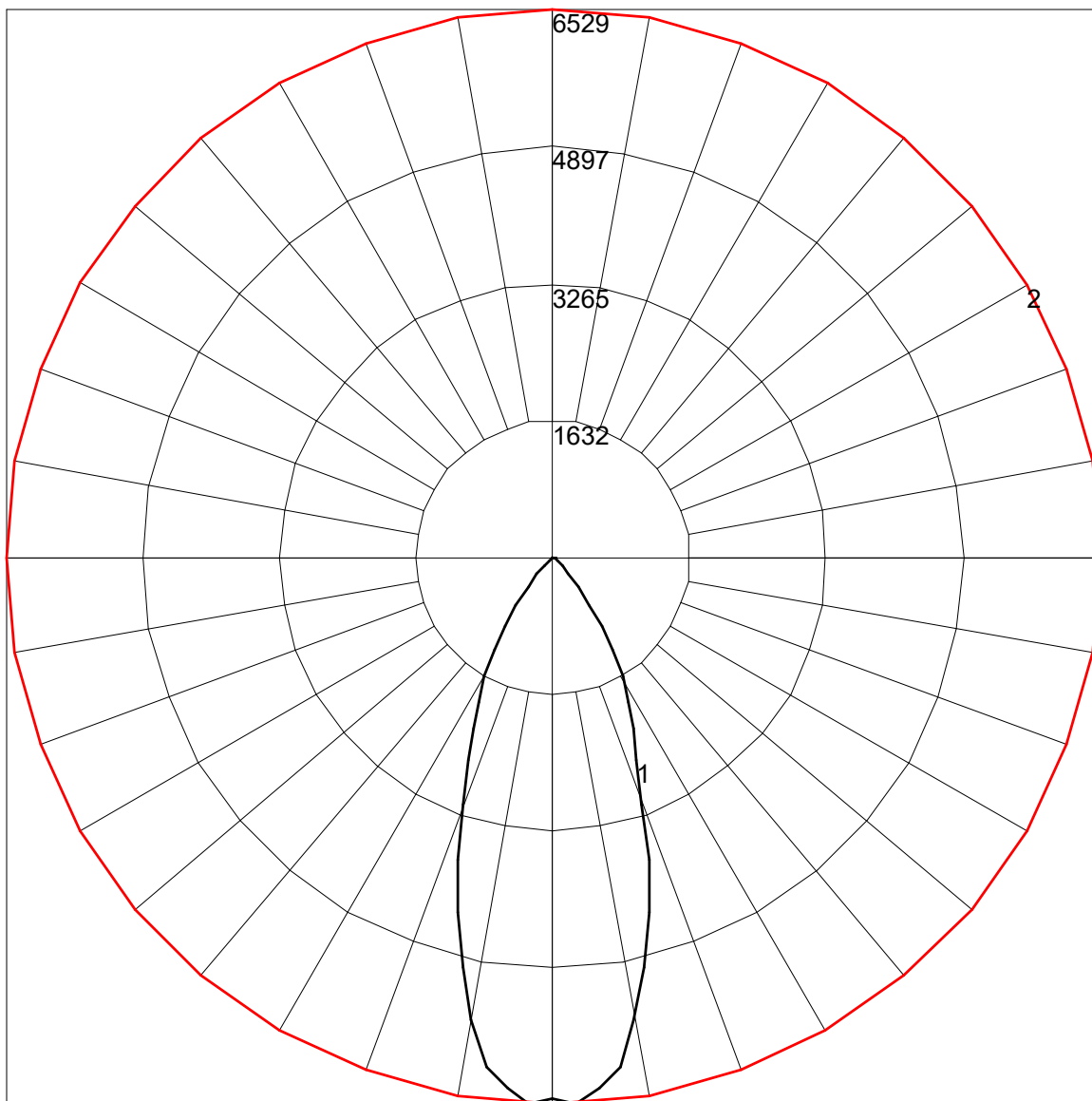
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**UGR TABLE - CORRECTED**

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	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
4H	2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
8H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
12H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 6529.192 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.)