



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L40/835-OM-CS-DIM-UNV

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

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

[LAMPCAT] X1-3500K LED

[LAMP] (1) 3500K LED MODULE

[BALLASTCAT]

[BALLAST]

[OTHER]

[ 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	3966
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	46.4
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	6251	6251	6251
55	999	999	999
65	690	690	690
75	459	459	459
85	248	248	248

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CANDELA TABULATION

	<u>0</u>
0.0	5661.865
2.5	5690.381
5.0	5678.896
7.5	5501.071
10.0	5478.496
12.5	5148.987
15.0	4773.932
17.5	4346.203
20.0	3851.146
22.5	3321.237
25.0	2770.337
27.5	2305.380
30.0	1831.711
32.5	1390.911
35.0	1033.678
37.5	729.912
40.0	474.858
42.5	287.925
45.0	161.983
47.5	74.853
50.0	35.248
52.5	26.139
55.0	20.991
57.5	17.822
60.0	15.050
62.5	12.673
65.0	10.693
67.5	8.713
70.0	7.129
72.5	5.941
75.0	4.356
77.5	3.169
80.0	1.981
82.5	1.584
85.0	0.792
87.5	0.396
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1850.06	N.A.	46.60
0-30	3123.1	N.A.	78.70
0-40	3783.18	N.A.	95.40
0-60	3949.61	N.A.	99.60
0-80	3965.01	N.A.	100.00
0-90	3966.04	N.A.	100.00
10-90	3434.41	N.A.	86.60
20-40	1933.12	N.A.	48.70
20-50	2079.5	N.A.	52.40
40-70	177.09	N.A.	4.50
60-80	15.41	N.A.	0.40
70-80	4.75	N.A.	0.10
80-90	1.02	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	3966.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	531.63
10-20	1318.43
20-30	1273.04
30-40	660.08
40-50	146.38
50-60	20.05
60-70	10.66
70-80	4.75
80-90	1.02
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 RW	80				70				50			30			10			0
	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	71	70	70	69	68	68	67	66	65	65	64	63
2	73	69	67	65	71	68	66	64	66	64	63	64	63	61	62	61	60	59
3	69	65	62	60	68	64	61	59	63	60	58	61	59	57	59	58	56	55
4	66	61	58	55	65	61	57	55	59	56	54	58	55	54	57	55	53	52
5	63	58	54	51	62	57	54	51	56	53	51	55	52	50	54	52	50	49
6	60	55	51	48	59	54	51	48	53	50	48	52	49	47	51	49	47	46
7	57	52	48	45	57	51	48	45	50	47	45	50	47	45	49	46	44	44
8	55	49	45	43	54	49	45	43	48	45	42	47	44	42	47	44	42	41
9	52	46	43	40	52	46	43	40	46	42	40	45	42	40	44	42	40	39
10	50	44	41	38	50	44	40	38	43	40	38	43	40	38	42	40	38	37

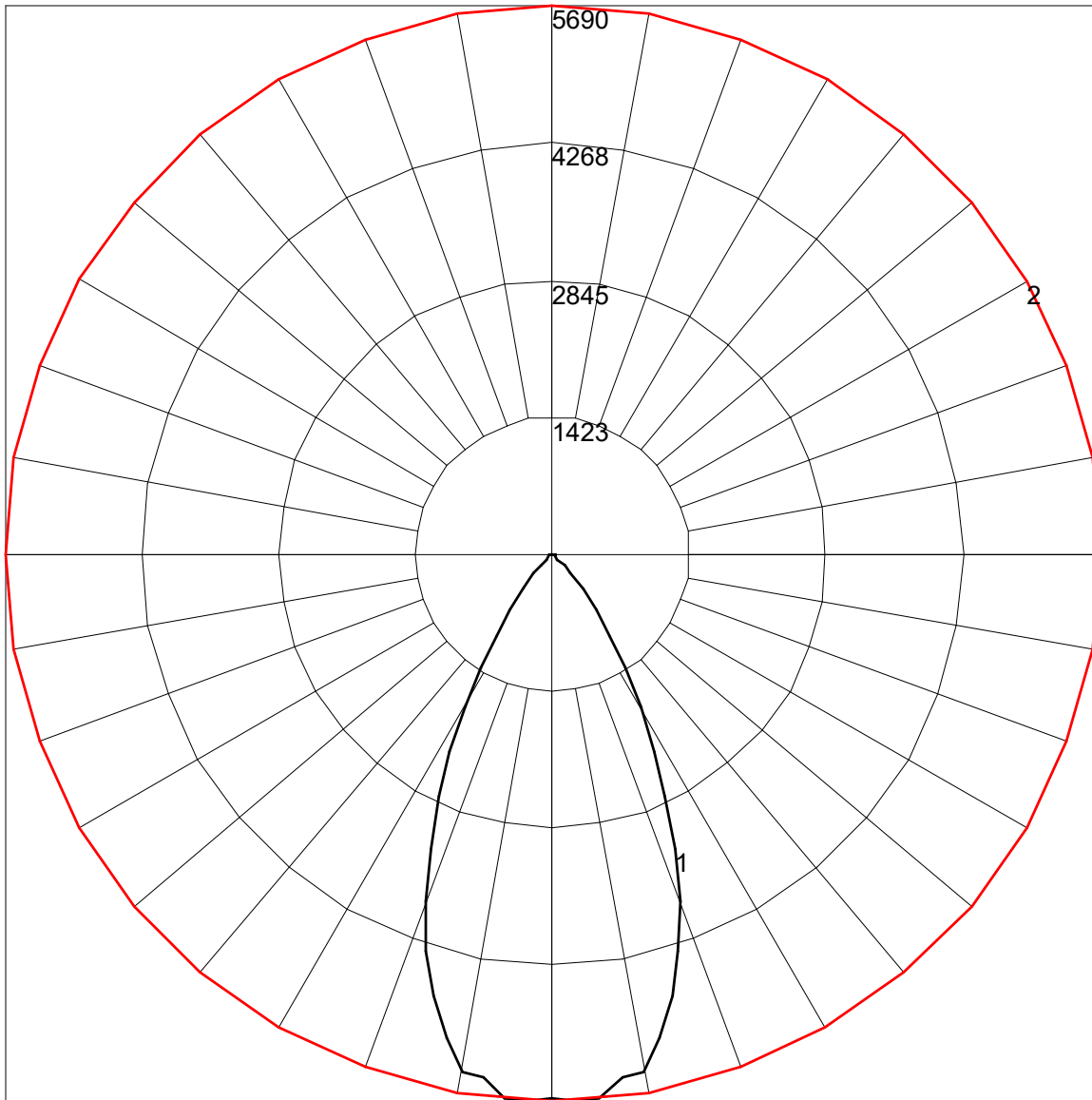
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**UGR TABLE - CORRECTED**

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 = 5690.381 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.)