



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L80-835-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-L80/835-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

[ 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	7931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	95.1
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	12501	12501	12501
55	1997	1997	1997
65	1381	1381	1381
75	919	919	919
85	496	496	496

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CANDELA TABULATION

	<u>0</u>
0.0	11322.303
2.5	11379.326
5.0	11356.359
7.5	11000.755
10.0	10955.611
12.5	10296.675
15.0	9546.660
17.5	8691.309
20.0	7701.320
22.5	6641.637
25.0	5539.976
27.5	4610.179
30.0	3662.959
32.5	2781.472
35.0	2067.096
37.5	1459.640
40.0	949.597
42.5	575.777
45.0	323.925
47.5	149.687
50.0	70.488
52.5	52.271
55.0	41.976
57.5	35.639
60.0	30.096
62.5	25.344
65.0	21.383
67.5	17.425
70.0	14.257
72.5	11.880
75.0	8.712
77.5	6.336
80.0	3.961
82.5	3.168
85.0	1.584
87.5	0.793
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3699.66	N.A.	46.60
0-30	6245.42	N.A.	78.70
0-40	7565.41	N.A.	95.40
0-60	7898.22	N.A.	99.60
0-80	7929.03	N.A.	100.00
0-90	7931.08	N.A.	100.00
10-90	6867.95	N.A.	86.60
20-40	3865.76	N.A.	48.70
20-50	4158.47	N.A.	52.40
40-70	354.13	N.A.	4.50
60-80	30.81	N.A.	0.40
70-80	9.49	N.A.	0.10
80-90	2.05	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	7931.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1063.12
10-20	2636.53
20-30	2545.76
30-40	1320.00
40-50	292.71
50-60	40.09
60-70	21.32
70-80	9.49
80-90	2.05
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	159	159	159	159	155	155	155	155	148	148	148	142	142	142	136	136	136	133
1	152	148	145	142	149	146	143	140	140	138	136	135	133	132	131	129	128	126
2	145	139	134	130	142	137	132	128	132	129	125	128	125	123	125	122	120	118
3	138	130	124	119	136	128	123	118	125	120	116	122	118	115	119	116	113	111
4	132	123	116	110	130	121	115	110	118	113	108	116	111	107	113	109	106	104
5	126	116	108	103	124	114	108	102	112	106	102	110	105	101	108	103	100	98
6	120	109	102	96	118	108	101	96	106	100	95	104	99	95	103	98	94	92
7	115	103	96	91	113	102	95	90	101	94	90	99	94	89	98	93	89	87
8	110	98	90	85	108	97	90	85	96	89	85	94	89	84	93	88	84	82
9	105	93	86	81	104	92	85	81	91	85	80	90	84	80	89	84	80	78
10	101	88	81	76	99	88	81	76	87	80	76	86	80	76	85	80	76	74

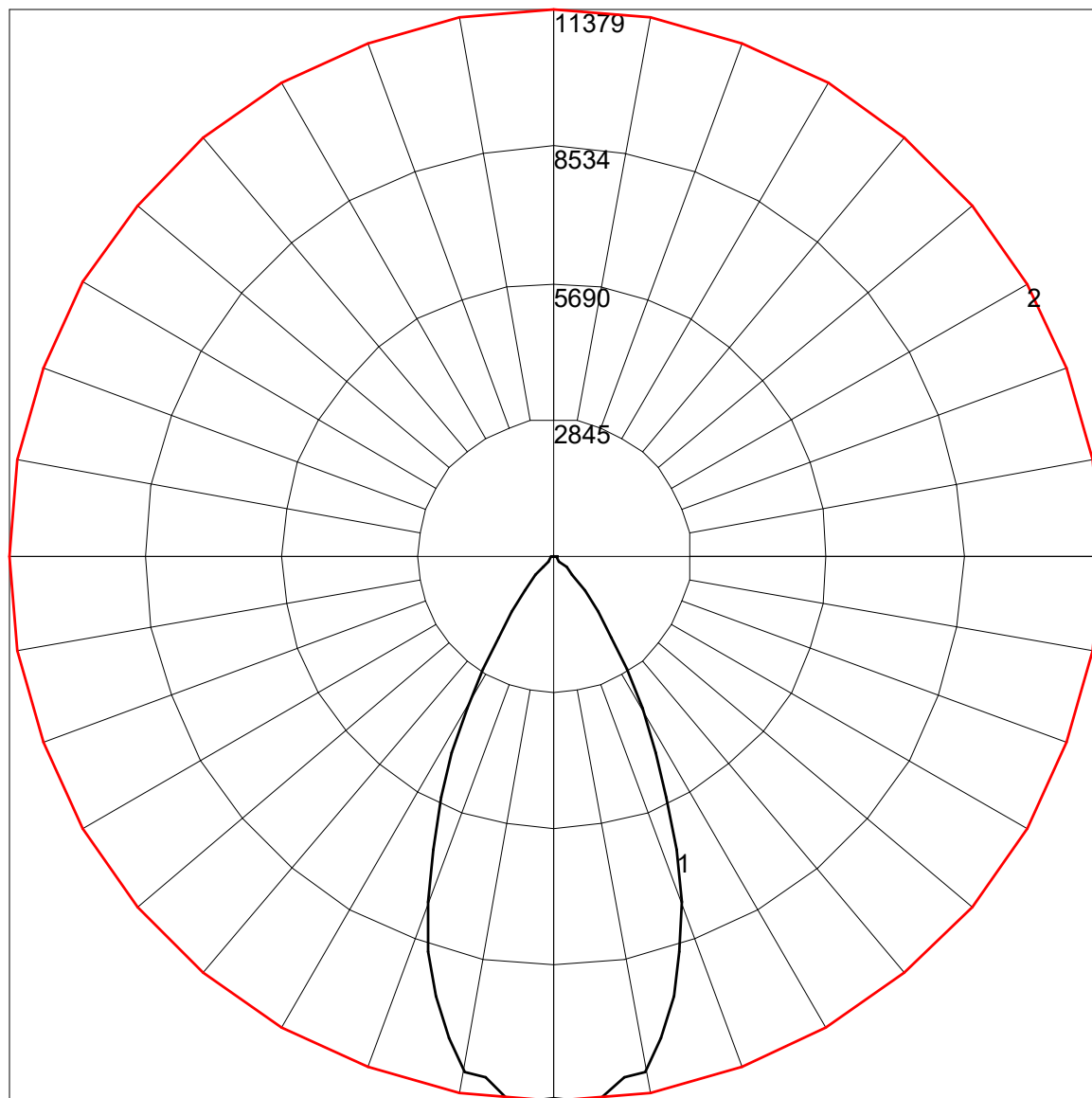
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**UGR TABLE - CORRECTED**

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 = 11379.326 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.)