



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L80-835-ON-CS-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L80/835-ON-CS-DIM-UNV

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

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

[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

[ CONVERT] Photometric web converted from original test data

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7265
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	95.1
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	12100	12100	12100
55	1088	1088	1088
65	685	685	685
75	430	430	430
85	256	256	256

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CANDELA TABULATION

	<u>0</u>
0.0	12915.014
2.5	13052.998
5.0	12739.471
7.5	12262.651
10.0	11199.599
12.5	10033.670
15.0	8804.875
17.5	7568.730
20.0	6256.654
22.5	5232.794
25.0	4498.781
27.5	3898.672
30.0	3288.765
32.5	2659.261
35.0	2036.290
37.5	1441.897
40.0	925.885
42.5	560.918
45.0	313.527
47.5	134.719
50.0	44.906
52.5	27.760
55.0	22.861
57.5	19.596
60.0	16.329
62.5	13.063
65.0	10.615
67.5	8.164
70.0	6.532
72.5	4.899
75.0	4.082
77.5	3.266
80.0	2.449
82.5	1.633
85.0	0.817
87.5	0.817
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3589.83	N.A.	49.40
0-30	5680.75	N.A.	78.20
0-40	6946.31	N.A.	95.60
0-60	7248.87	N.A.	99.80
0-80	7263.95	N.A.	100.00
0-90	7265.18	N.A.	100.00
10-90	6094.01	N.A.	83.90
20-40	3356.48	N.A.	46.20
20-50	3636.62	N.A.	50.10
40-70	313.23	N.A.	4.30
60-80	15.09	N.A.	0.20
70-80	4.41	N.A.	0.10
80-90	1.22	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	7265.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1171.16
10-20	2418.67
20-30	2090.92
30-40	1265.56
40-50	280.14
50-60	22.41
60-70	10.68
70-80	4.41
80-90	1.22
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	149	146	143	149	146	143	141	140	138	136	135	134	132	131	130	128	126
2	145	139	134	130	142	137	133	129	133	129	126	129	126	123	125	123	121	119
3	139	131	125	120	136	129	124	119	126	121	117	123	119	115	120	116	114	112
4	133	123	117	111	130	122	116	111	119	114	109	116	112	108	114	110	107	105
5	127	116	109	104	125	115	109	104	113	107	103	111	106	102	109	104	101	99
6	121	110	103	98	119	109	102	97	107	101	97	105	100	96	104	99	95	94
7	116	105	97	92	114	104	97	92	102	96	91	100	95	91	99	94	90	89
8	111	99	92	87	109	99	92	87	97	91	86	96	90	86	95	90	86	84
9	106	95	87	82	105	94	87	82	93	86	82	92	86	82	90	85	81	80
10	102	90	83	78	101	90	83	78	89	82	78	88	82	78	87	81	78	76

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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

X=2H	Y=2H	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
	4H	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
	8H	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

UGR Viewed Endwise

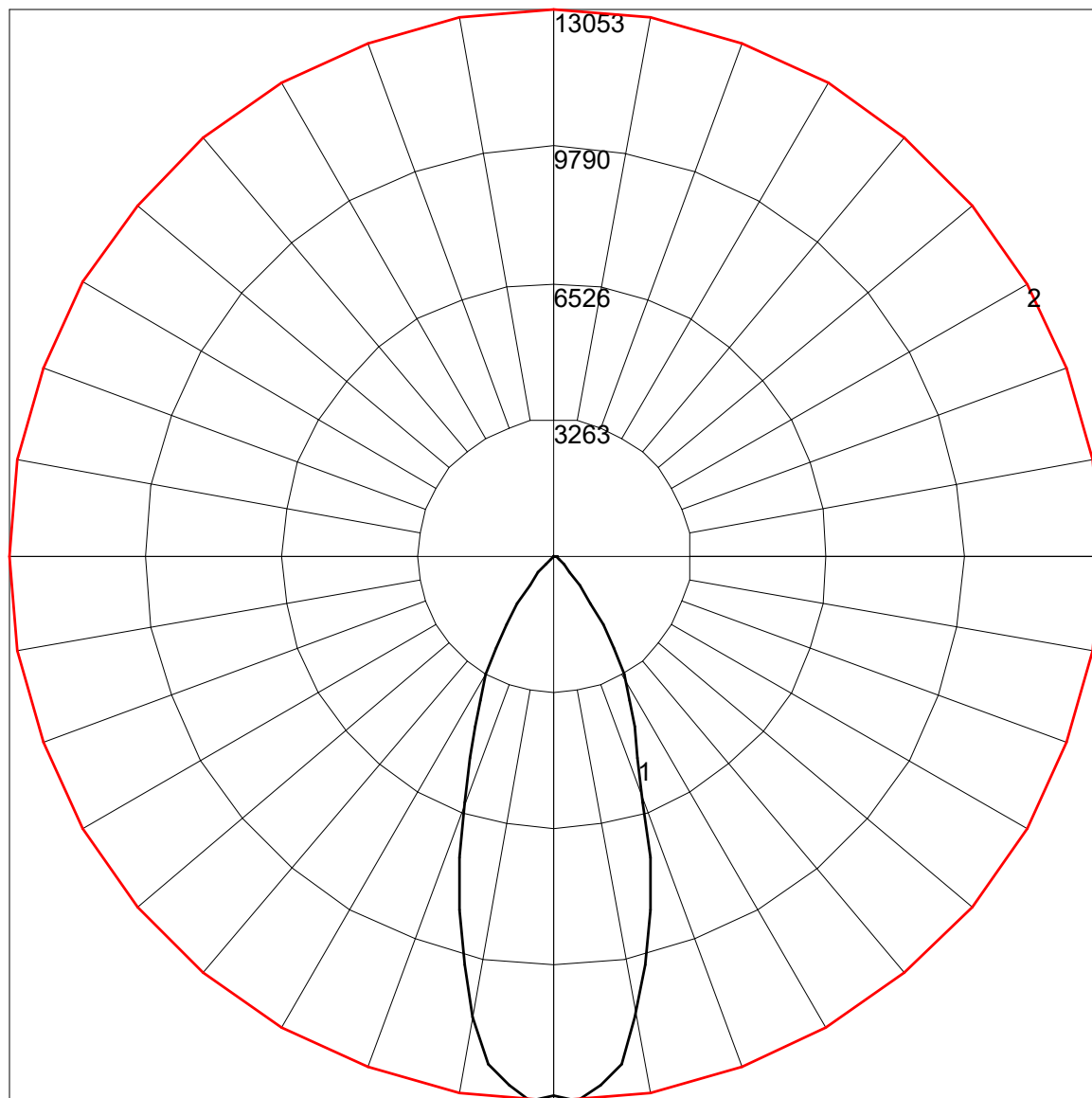
4H	2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

8H	4H	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
	8H	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

12H	4H	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
	8H	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 = 13052.998 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.)