



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L80-835-OW-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-OW-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	8007
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	95.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.96
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	18506	18506	18506
55	3074	3074	3074
65	2111	2111	2111
75	1642	1642	1642
85	1219	1219	1219

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CANDELA TABULATION

	<u>0</u>
0.0	7828.767
2.5	7838.886
5.0	7877.807
7.5	7727.569
10.0	7577.329
12.5	7480.802
15.0	7181.882
17.5	6914.877
20.0	6698.472
22.5	6480.508
25.0	6211.946
27.5	5740.213
30.0	4902.611
32.5	3986.389
35.0	3068.608
37.5	2207.654
40.0	1448.676
42.5	881.193
45.0	479.519
47.5	210.178
50.0	103.532
52.5	80.957
55.0	64.611
57.5	53.712
60.0	45.150
62.5	38.143
65.0	32.694
67.5	27.245
70.0	22.574
72.5	18.682
75.0	15.570
77.5	12.455
80.0	9.341
82.5	6.227
85.0	3.893
87.5	1.557
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2760.56	N.A.	34.50
0-30	5542.17	N.A.	69.20
0-40	7452.8	N.A.	93.10
0-60	7953.83	N.A.	99.30
0-80	8002.96	N.A.	99.90
0-90	8007.4	N.A.	100.00
10-90	7267.67	N.A.	90.80
20-40	4692.24	N.A.	58.60
20-50	5132.39	N.A.	64.10
40-70	533.63	N.A.	6.70
60-80	49.12	N.A.	0.60
70-80	16.52	N.A.	0.20
80-90	4.45	N.A.	0.10
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	8007.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	739.73
10-20	2020.83
20-30	2781.61
30-40	1910.63
40-50	440.15
50-60	60.88
60-70	32.60
70-80	16.52
80-90	4.45
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	151	148	144	141	148	145	142	139	139	137	135	134	132	131	130	128	127	124
2	144	137	132	127	141	135	130	126	130	126	123	126	123	120	123	120	118	115
3	136	128	121	115	134	126	120	115	122	117	113	119	115	111	116	112	109	107
4	129	119	111	106	127	117	110	105	115	109	104	112	107	103	109	105	101	99
5	122	111	103	97	120	110	102	97	107	101	96	105	100	95	103	98	94	92
6	116	104	96	90	114	103	95	90	101	94	89	99	93	89	97	92	88	86
7	110	98	89	84	108	97	89	83	95	88	83	93	87	83	92	86	82	80
8	105	92	84	78	103	91	83	78	89	82	77	88	82	77	87	81	77	75
9	99	86	78	73	98	86	78	73	84	77	72	83	77	72	82	76	72	70
10	95	81	74	68	93	81	73	68	80	73	68	79	72	68	78	72	68	66

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UGR TABLE - CORRECTED

Reflectances

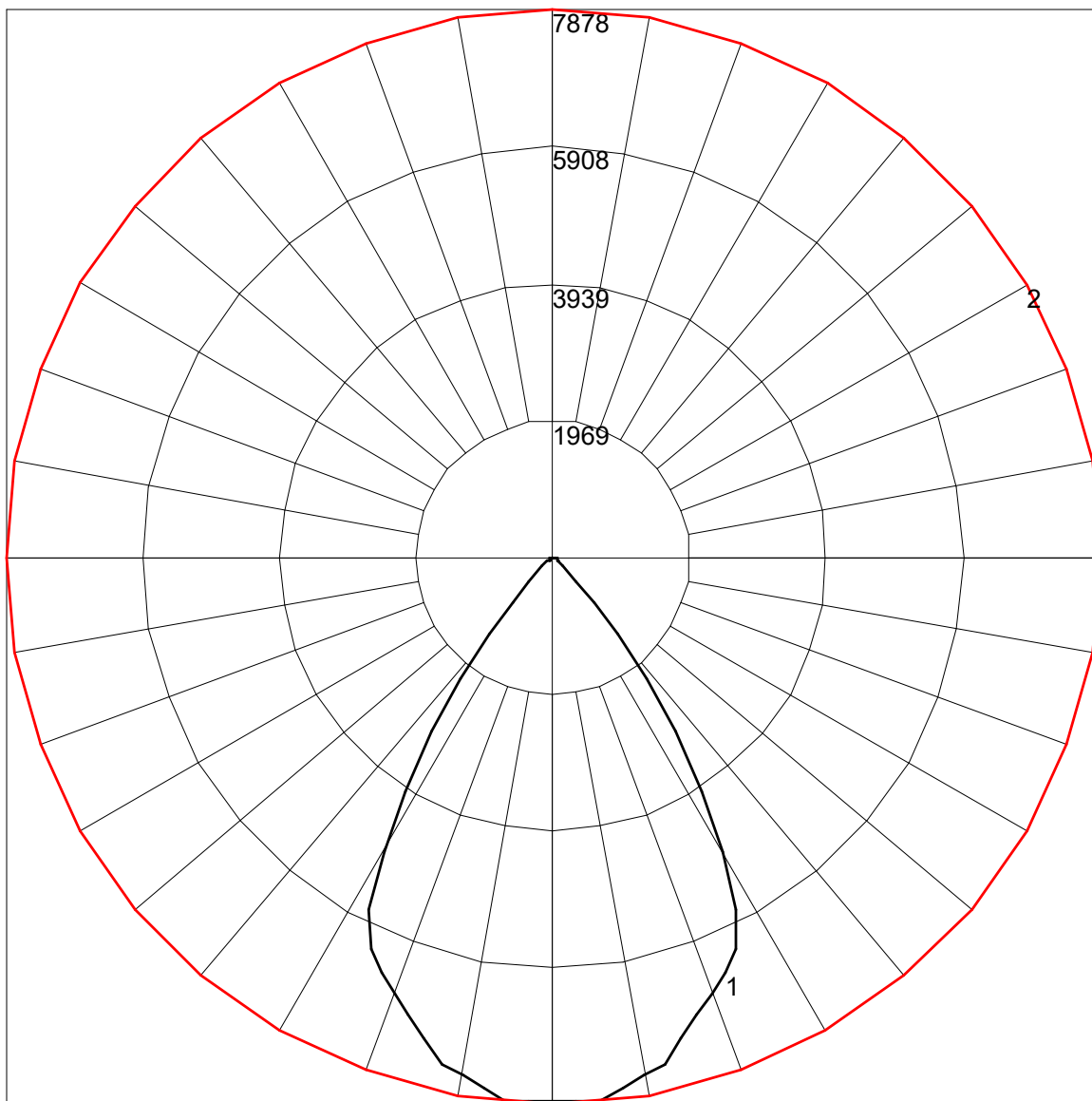
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	6.2	6.2	6.2	6.2	6.2	UGR Viewed Endwise				
	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	6.4	6.2	6.2	6.2	6.2	6.4
	6H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
	8H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
	12H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
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	6.4	6.2	6.2	6.2	6.2	6.4
	4H	6.2	6.2	6.2	6.5	6.9	6.2	6.2	6.2	6.5	6.9
	6H	6.2	6.4	6.3	6.8	7.3	6.2	6.4	6.3	6.8	7.3
	8H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	7.4
	12H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	7.4
8H	4H	6.2	6.2	6.2	6.5	7.0	6.2	6.2	6.2	6.5	7.0
	6H	6.2	6.5	6.6	7.0	7.5	6.2	6.5	6.6	7.0	7.5
	8H	6.3	6.6	6.8	7.1	7.6	6.3	6.6	6.8	7.1	7.6
	12H	6.4	6.7	6.9	7.2	7.8	6.4	6.7	6.9	7.2	7.8
12H	4H	6.2	6.2	6.2	6.4	6.9	6.2	6.2	6.2	6.4	6.9
	6H	6.2	6.4	6.7	6.9	7.5	6.2	6.4	6.7	6.9	7.5
	8H	6.3	6.6	6.8	7.1	7.7	6.3	6.6	6.8	7.1	7.7

Maximum UGR = 7.8

POLAR GRAPH



Maximum Candela = 7877.807 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)