



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L60-835-OW-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L60/835-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	6000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	71.9
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L60-835-OW-CS-DIM-UNV_.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13868	13868	13868
55	2304	2304	2304
65	1582	1582	1582
75	1230	1230	1230
85	913	913	913

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L60-835-OW-CS-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	5866.442
2.5	5874.025
5.0	5903.190
7.5	5790.610
10.0	5678.029
12.5	5605.697
15.0	5381.703
17.5	5181.624
20.0	5019.462
22.5	4856.132
25.0	4654.887
27.5	4301.396
30.0	3673.744
32.5	2987.178
35.0	2299.444
37.5	1654.293
40.0	1085.557
42.5	660.317
45.0	359.325
47.5	157.496
50.0	77.581
52.5	60.665
55.0	48.416
57.5	40.249
60.0	33.833
62.5	28.582
65.0	24.499
67.5	20.416
70.0	16.916
72.5	13.999
75.0	11.667
77.5	9.333
80.0	7.000
82.5	4.666
85.0	2.917
87.5	1.167
90.0	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L60-835-OW-CS-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2068.61	N.A.	34.50
0-30	4152.99	N.A.	69.20
0-40	5584.71	N.A.	93.10
0-60	5960.16	N.A.	99.30
0-80	5996.97	N.A.	99.90
0-90	6000.3	N.A.	100.00
10-90	5445.99	N.A.	90.80
20-40	3516.1	N.A.	58.60
20-50	3845.93	N.A.	64.10
40-70	399.88	N.A.	6.70
60-80	36.81	N.A.	0.60
70-80	12.38	N.A.	0.20
80-90	3.33	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	6000.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	554.31
10-20	1514.3
20-30	2084.38
30-40	1431.72
40-50	329.82
50-60	45.62
60-70	24.43
70-80	12.38
80-90	3.33
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L60-835-OW-CS-DIM-UNV_.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L60-835-OW-CS-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

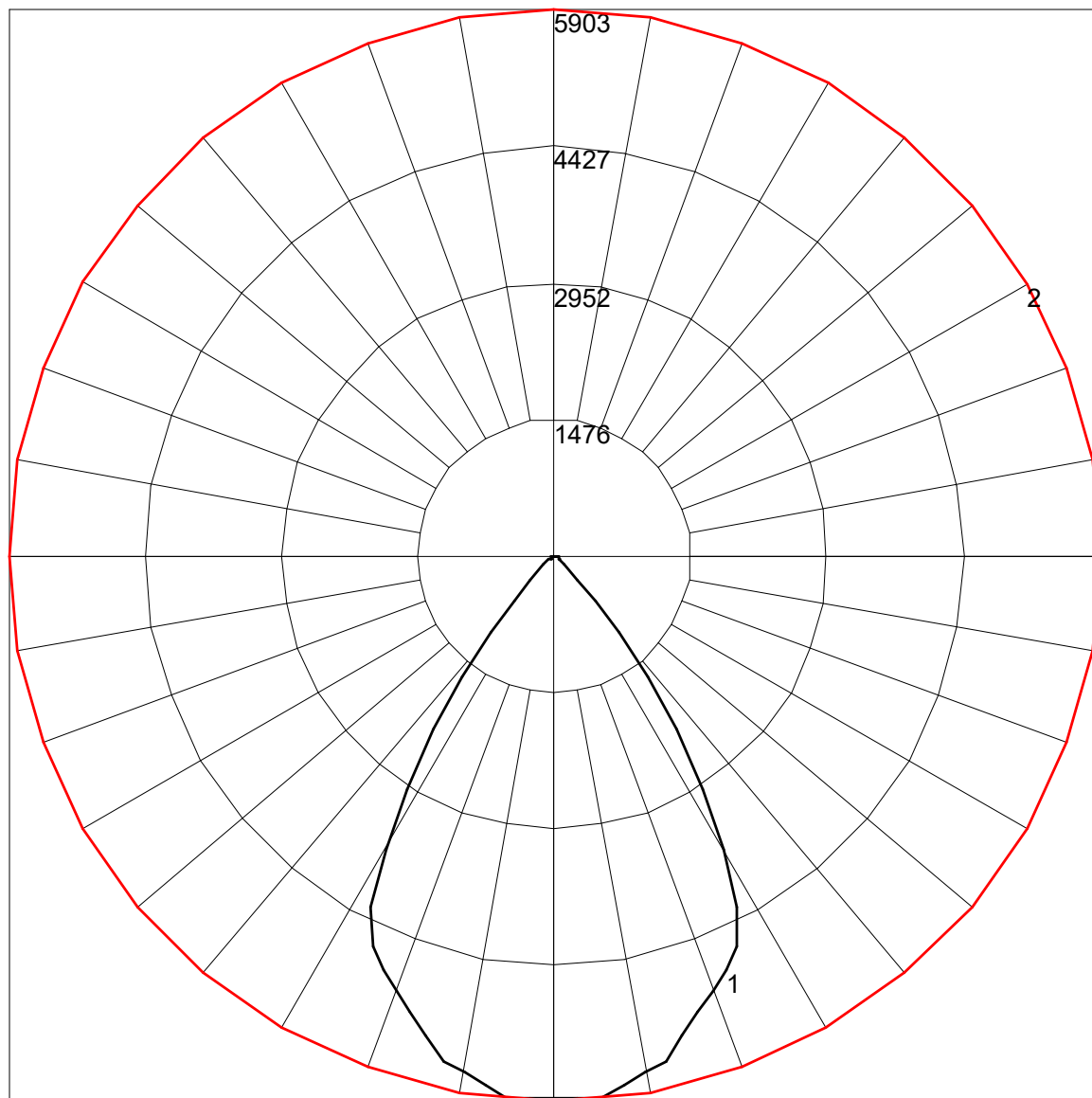
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

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 = 5903.19 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.)