



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 16-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L60/835-OM-CS-DIM-UNV

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

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

[MORE] 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

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5943
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)	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	9368	9368	9368
55	1497	1497	1497
65	1035	1035	1035
75	688	688	688
85	372	372	372

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CANDELA TABULATION

	<u>0</u>
0.0	8484.233
2.5	8526.963
5.0	8509.753
7.5	8243.285
10.0	8209.457
12.5	7715.691
15.0	7153.676
17.5	6512.729
20.0	5770.893
22.5	4976.832
25.0	4151.315
27.5	3454.583
30.0	2744.795
32.5	2084.263
35.0	1548.954
37.5	1093.764
40.0	711.569
42.5	431.452
45.0	242.729
47.5	112.166
50.0	52.819
52.5	39.169
55.0	31.454
57.5	26.706
60.0	22.552
62.5	18.991
65.0	16.023
67.5	13.057
70.0	10.683
72.5	8.902
75.0	6.528
77.5	4.748
80.0	2.968
82.5	2.374
85.0	1.187
87.5	0.594
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2772.29	N.A.	46.60
0-30	4679.93	N.A.	78.70
0-40	5669.05	N.A.	95.40
0-60	5918.44	N.A.	99.60
0-80	5941.52	N.A.	100.00
0-90	5943.06	N.A.	100.00
10-90	5146.42	N.A.	86.60
20-40	2896.76	N.A.	48.70
20-50	3116.1	N.A.	52.40
40-70	265.36	N.A.	4.50
60-80	23.09	N.A.	0.40
70-80	7.11	N.A.	0.10
80-90	1.53	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	5943.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	796.64
10-20	1975.65
20-30	1907.64
30-40	989.12
40-50	219.34
50-60	30.04
60-70	15.98
70-80	7.11
80-90	1.53
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56

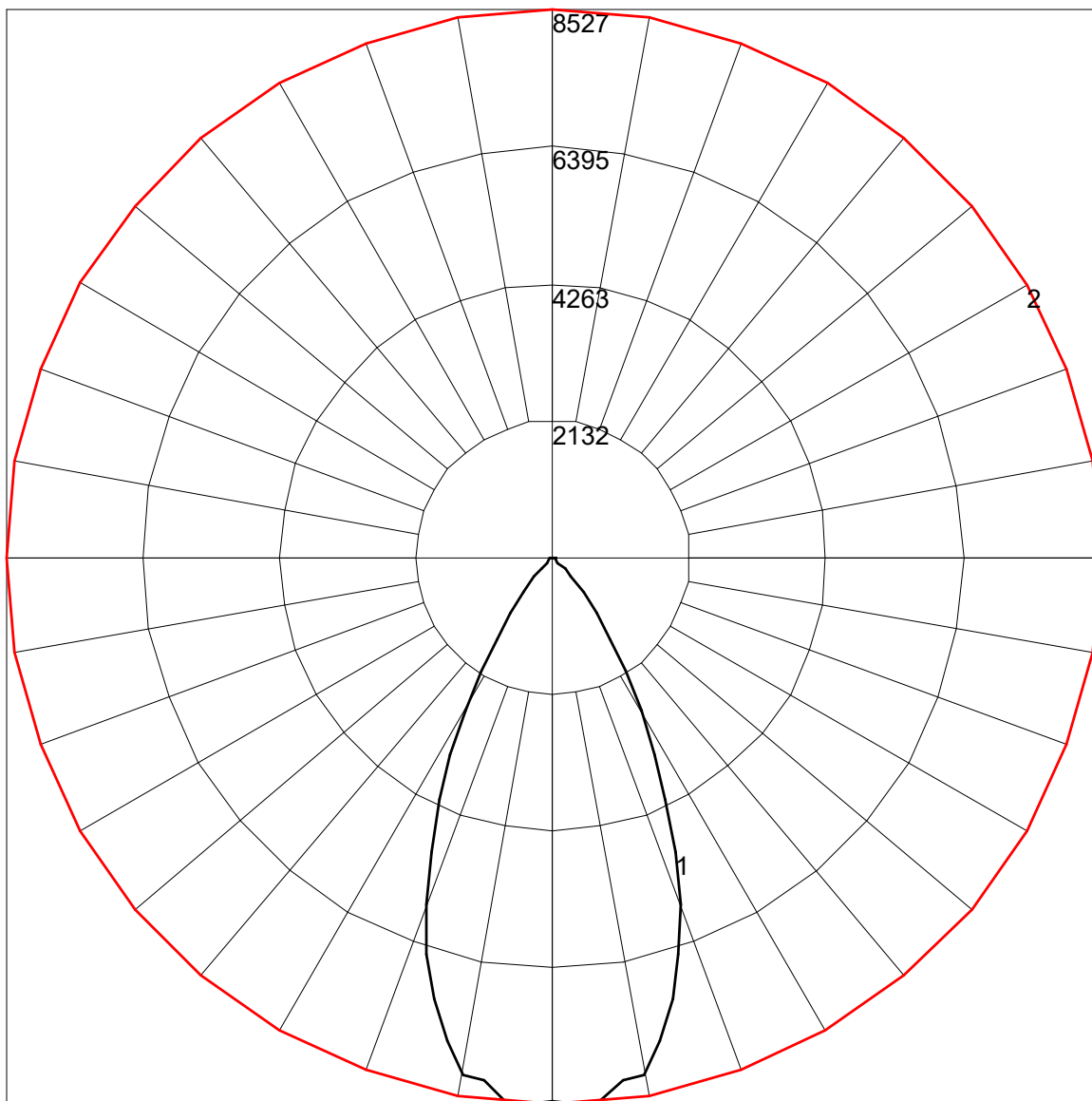
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UGR TABLE - CORRECTED

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 = 8526.963 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.)