



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L40-835-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-L40/835-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	4005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	46.4
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	9257	9257	9257
55	1538	1538	1538
65	1056	1056	1056
75	821	821	821
85	610	610	610

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CANDELA TABULATION

	<u>0</u>
0.0	3915.850
2.5	3920.912
5.0	3940.379
7.5	3865.232
10.0	3790.084
12.5	3741.803
15.0	3592.287
17.5	3458.734
20.0	3350.491
22.5	3241.468
25.0	3107.137
27.5	2871.182
30.0	2452.224
32.5	1993.941
35.0	1534.879
37.5	1104.241
40.0	724.609
42.5	440.762
45.0	239.849
47.5	105.129
50.0	51.785
52.5	40.494
55.0	32.318
57.5	26.866
60.0	22.584
62.5	19.078
65.0	16.353
67.5	13.628
70.0	11.291
72.5	9.344
75.0	7.788
77.5	6.230
80.0	4.673
82.5	3.115
85.0	1.947
87.5	0.779
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1380.8	N.A.	34.50
0-30	2772.12	N.A.	69.20
0-40	3727.8	N.A.	93.10
0-60	3978.41	N.A.	99.30
0-80	4002.98	N.A.	99.90
0-90	4005.2	N.A.	100.00
10-90	3635.2	N.A.	90.80
20-40	2347.00	N.A.	58.60
20-50	2567.16	N.A.	64.10
40-70	266.92	N.A.	6.70
60-80	24.57	N.A.	0.60
70-80	8.26	N.A.	0.20
80-90	2.22	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	4005.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	370.00
10-20	1010.79
20-30	1391.33
30-40	955.67
40-50	220.16
50-60	30.45
60-70	16.31
70-80	8.26
80-90	2.22
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	79	79	79	79	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	76	74	72	71	74	72	71	70	70	68	67	67	66	65	65	64	63	62
2	72	69	66	64	70	67	65	63	65	63	61	63	62	60	61	60	59	58
3	68	64	60	58	67	63	60	57	61	59	56	60	57	55	58	56	55	54
4	65	60	56	53	63	59	55	53	57	54	52	56	53	51	55	53	51	50
5	61	56	52	49	60	55	51	48	54	51	48	53	50	48	52	49	47	46
6	58	52	48	45	57	52	48	45	50	47	45	50	47	44	49	46	44	43
7	55	49	45	42	54	48	44	42	47	44	42	47	44	41	46	43	41	40
8	52	46	42	39	52	45	42	39	45	41	39	44	41	39	43	41	38	37
9	50	43	39	36	49	43	39	36	42	39	36	42	38	36	41	38	36	35
10	47	41	37	34	47	40	37	34	40	36	34	39	36	34	39	36	34	33

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UGR TABLE - CORRECTED

Reflectances

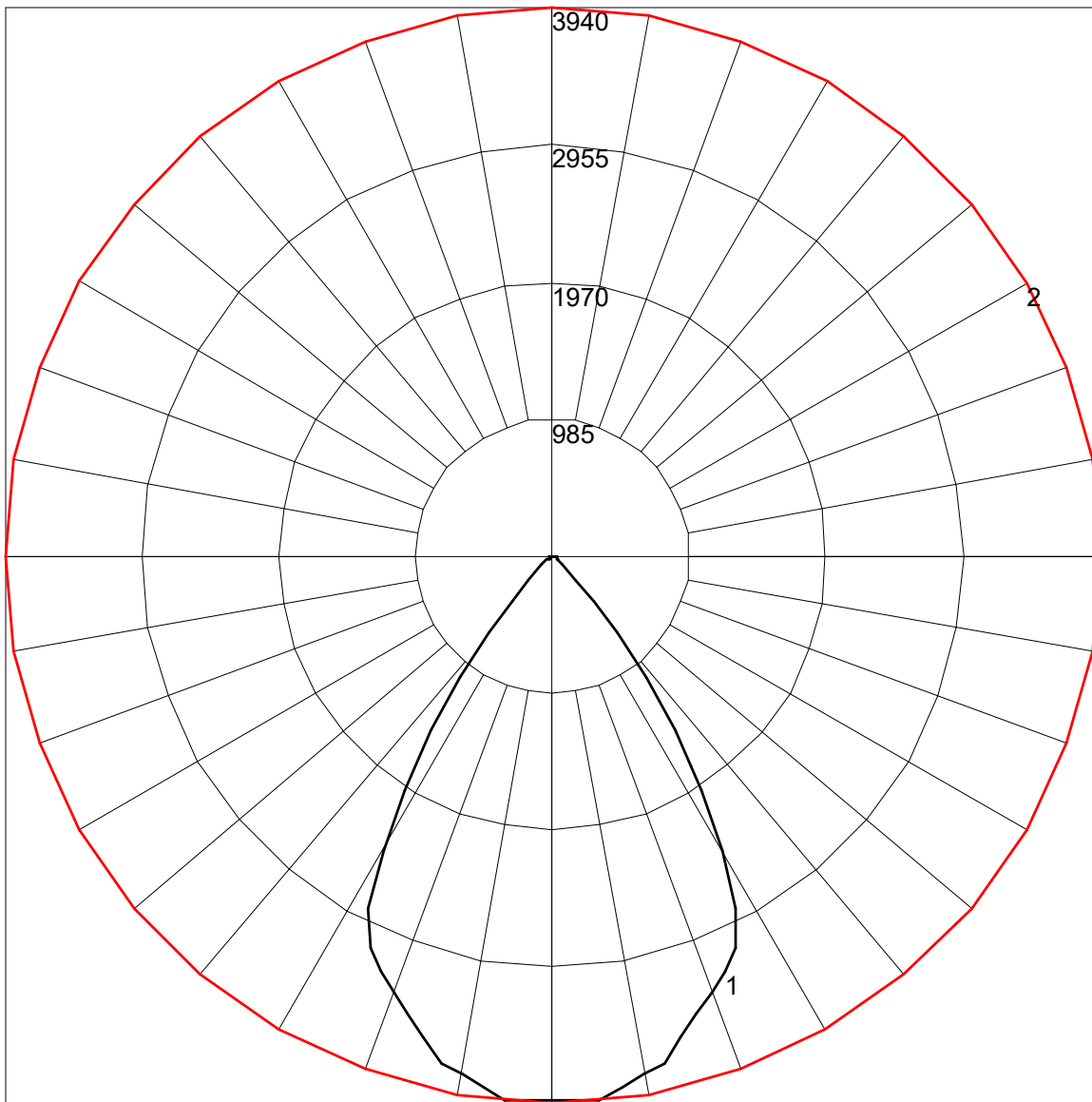
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	6.2	6.2	6.2	6.2	6.2	UGR Viewed Endwise	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	6.2
	4H	6.2	6.2	6.2	6.2	6.4	6.2	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	6.3	6.7
	8H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.3	6.7
	12H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	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	6.2
	3H	6.2	6.2	6.2	6.2	6.4	6.2	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	6.5	6.9
	6H	6.2	6.4	6.3	6.8	7.3	6.2	6.4	6.3	6.8	6.8	7.3
	8H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	6.9	7.4
	12H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	6.9	7.4
8H	4H	6.2	6.2	6.2	6.5	7.0	6.2	6.2	6.2	6.5	6.5	7.0
	6H	6.2	6.5	6.6	7.0	7.5	6.2	6.5	6.6	7.0	7.0	7.5
	8H	6.3	6.6	6.8	7.1	7.6	6.3	6.6	6.8	7.1	7.1	7.6
	12H	6.4	6.7	6.9	7.2	7.8	6.4	6.7	6.9	7.2	7.2	7.8
12H	4H	6.2	6.2	6.2	6.4	6.9	6.2	6.2	6.2	6.4	6.4	6.9
	6H	6.2	6.4	6.7	6.9	7.5	6.2	6.4	6.7	6.9	6.9	7.5
	8H	6.3	6.6	6.8	7.1	7.7	6.3	6.6	6.8	7.1	7.1	7.7

Maximum UGR = 7.8

POLAR GRAPH



Maximum Candela = 3940.379 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.)