



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L20-835-(L15)-DIM-120-OW-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 06-12-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 8DR-L20-835-(L15)-DIM-120-OW-CS

[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.

[_ ABSOLUTELUMENS] 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	1505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	19.5
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	3478	3478	3478
55	578	578	578
65	397	397	397
75	309	309	309
85	229	229	229

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CANDELA TABULATION

	<u>0</u>
0.0	1471.499
2.5	1473.401
5.0	1480.717
7.5	1452.478
10.0	1424.239
12.5	1406.095
15.0	1349.910
17.5	1299.724
20.0	1259.048
22.5	1218.080
25.0	1167.601
27.5	1078.933
30.0	921.497
32.5	749.284
35.0	576.777
37.5	414.952
40.0	272.294
42.5	165.629
45.0	90.131
47.5	39.505
50.0	19.460
52.5	15.217
55.0	12.144
57.5	10.096
60.0	8.486
62.5	7.169
65.0	6.145
67.5	5.121
70.0	4.243
72.5	3.511
75.0	2.926
77.5	2.341
80.0	1.756
82.5	1.170
85.0	0.732
87.5	0.293
90.0	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L20-835-(L15)-DIM-120-OW-CS_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	518.88	N.A.	34.50
0-30	1041.71	N.A.	69.20
0-40	1400.83	N.A.	93.10
0-60	1495.01	N.A.	99.30
0-80	1504.24	N.A.	99.90
0-90	1505.08	N.A.	100.00
10-90	1366.04	N.A.	90.80
20-40	881.96	N.A.	58.60
20-50	964.69	N.A.	64.10
40-70	100.30	N.A.	6.70
60-80	9.23	N.A.	0.60
70-80	3.11	N.A.	0.20
80-90	0.84	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	1505.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.04
10-20	379.84
20-30	522.83
30-40	359.12
40-50	82.73
50-60	11.44
60-70	6.13
70-80	3.11
80-90	0.84
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	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

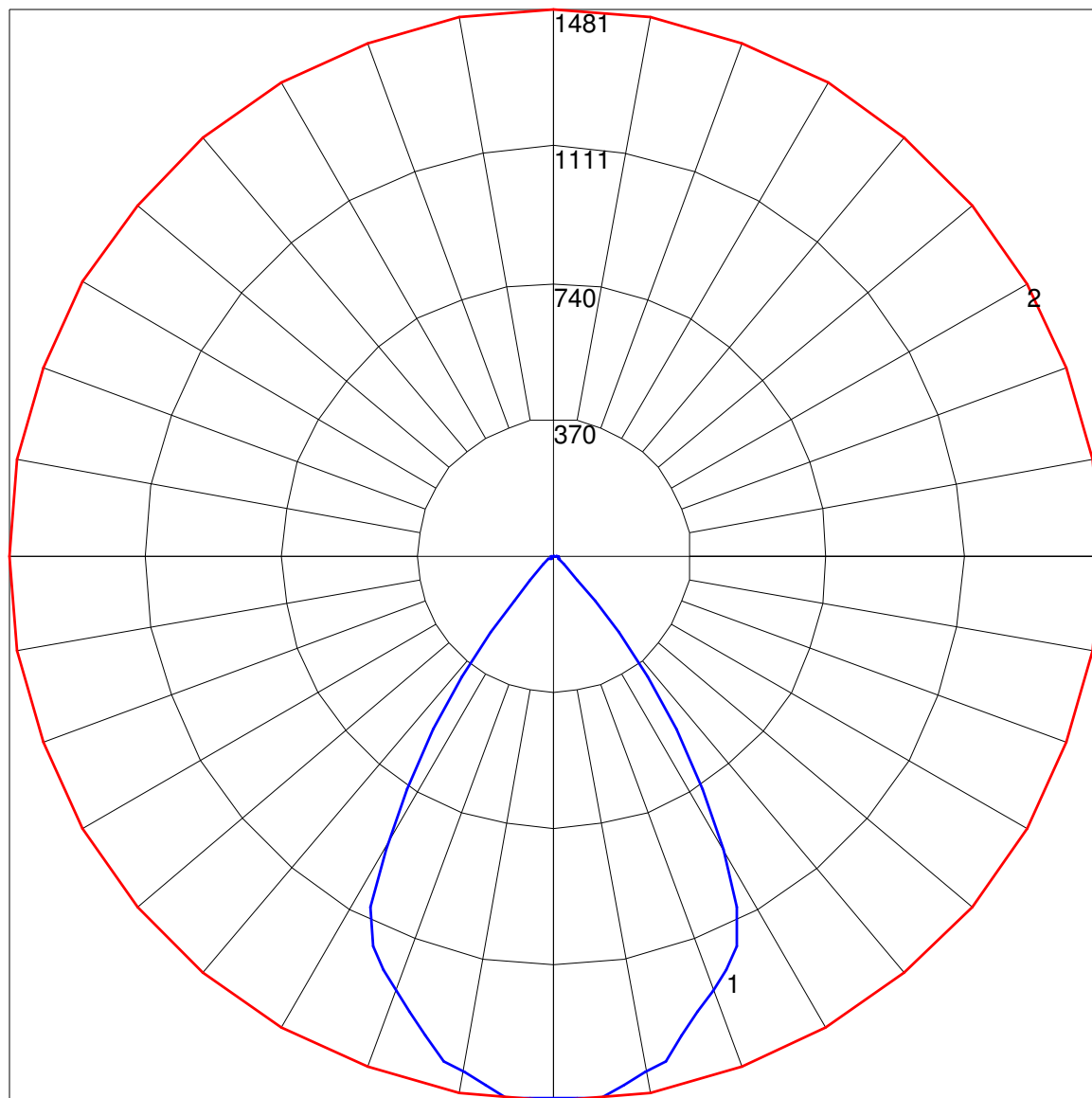
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UGR TABLE - CORRECTED

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	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	3H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	4H	1.4	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.4	1.6
	6H	1.4	1.4	1.4	1.5	1.9	1.4	1.4	1.4	1.5	1.9
	8H	1.4	1.4	1.4	1.5	1.9	1.4	1.4	1.4	1.5	1.9
	12H	1.4	1.4	1.4	1.5	1.9	1.4	1.4	1.4	1.5	1.9
4H	2H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	3H	1.4	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.4	1.6
	4H	1.4	1.4	1.4	1.7	2.1	1.4	1.4	1.4	1.7	2.1
	6H	1.4	1.6	1.5	2.0	2.5	1.4	1.6	1.5	2.0	2.5
	8H	1.4	1.6	1.7	2.1	2.6	1.4	1.6	1.7	2.1	2.6
	12H	1.4	1.6	1.7	2.1	2.6	1.4	1.6	1.7	2.1	2.6
8H	4H	1.4	1.4	1.4	1.7	2.2	1.4	1.4	1.4	1.7	2.2
	6H	1.4	1.7	1.8	2.2	2.7	1.4	1.7	1.8	2.2	2.7
	8H	1.5	1.8	2.0	2.3	2.8	1.5	1.8	2.0	2.3	2.8
	12H	1.6	1.9	2.1	2.4	3.0	1.6	1.9	2.1	2.4	3.0
12H	4H	1.4	1.4	1.4	1.6	2.1	1.4	1.4	1.4	1.6	2.1
	6H	1.4	1.6	1.9	2.1	2.7	1.4	1.6	1.9	2.1	2.7
	8H	1.5	1.8	2.0	2.3	2.9	1.5	1.8	2.0	2.3	2.9

Maximum UGR = 3.0

POLAR GRAPH



Maximum Candela = 1480.717 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)