



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OW-CSU-OW-CSD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 and BALLABS #20687

[TESTLAB]

[ISSUE DATE] 17-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-L20-835U-L20-835D-xxx-DIM1-UNV-OW-CSU-OW-CSD-WM

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, clear uplight glass lens enclosure, no downlight enclosure

[LAMP] Two white LEDs (one up/one down)

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	36.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.65 ft (Diameter)
Luminous Width (90-270)	0.65 ft (Diameter)
Luminous Height	2.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	405	405	405
55	105	105	105
65	15	15	15
75	0	0	0
85	0	0	0

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	<u>0</u>
0	1672.000
5	1579.000
10	1738.000
15	1735.000
20	1812.000
25	1982.000
30	1947.000
35	604.000
40	83.000
45	46.000
50	27.000
55	13.000
60	7.000
65	2.000
70	0.000
75	0.000
80	0.000
85	0.000
90	3.578
95	4.061
100	4.913
105	6.078
110	7.668
115	10.054
120	13.916
125	21.073
130	33.484
135	53.335
140	212.460
145	755.156
150	1336.504
155	1585.004
160	1552.912
165	1469.700
170	1408.356
175	1285.384
180	1192.516

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Zone	Lumens	%Lamp	%Fixt
0-20	655.86	N.A.	16.70
0-30	1551.00	N.A.	39.60
0-40	2041.28	N.A.	52.10
0-60	2093.23	N.A.	53.40
0-80	2095.93	N.A.	53.50
0-90	2096.91	N.A.	53.50
10-90	1939.38	N.A.	49.50
20-40	1385.41	N.A.	35.40
20-50	1424.05	N.A.	36.30
40-70	54.65	N.A.	1.40
60-80	2.69	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	0.98	N.A.	0.00
90-110	11.06	N.A.	0.30
90-120	21.38	N.A.	0.50
90-130	41.33	N.A.	1.10
90-150	577.54	N.A.	14.70
90-180	1822.18	N.A.	46.50
110-180	1811.12	N.A.	46.20
0-180	3919.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.52
10-20	498.34
20-30	895.14
30-40	490.27
40-50	38.64
50-60	13.32
60-70	2.69
70-80	0.00
80-90	0.98
90-100	4.53
100-110	6.53
110-120	10.31
120-130	19.95
130-140	66.76
140-150	469.45
150-160	698.83
160-170	419.83
170-180	125.99

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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	101	98	95	92	94	91	88	86	78	77	75	67	66	65	56	56	55	50
2	94	89	84	80	88	83	79	75	72	69	67	62	60	59	53	52	51	47
3	88	81	75	70	82	76	71	67	67	63	60	58	55	53	50	48	47	43
4	82	74	68	63	77	70	64	60	61	57	54	54	51	49	47	45	43	40
5	77	68	61	56	72	64	58	54	57	53	49	50	47	45	44	42	40	37
6	72	62	56	51	68	59	53	49	53	48	45	47	44	41	42	39	37	35
7	68	58	51	46	64	55	49	45	49	45	41	44	41	38	39	37	35	32
8	64	53	47	42	60	51	45	41	46	41	38	41	38	35	37	34	32	30
9	60	50	43	39	56	47	42	38	43	38	35	39	35	33	35	32	30	28
10	57	46	40	36	53	44	39	35	40	36	33	36	33	30	33	30	28	27

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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	4.7	4.7	4.7	4.7	4.7	UGR Viewed Endwise				
	3H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	4H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	6H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	8H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	12H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

4H	2H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	3H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	4H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	6H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	8H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	12H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

8H	4H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	6H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	8H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	12H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

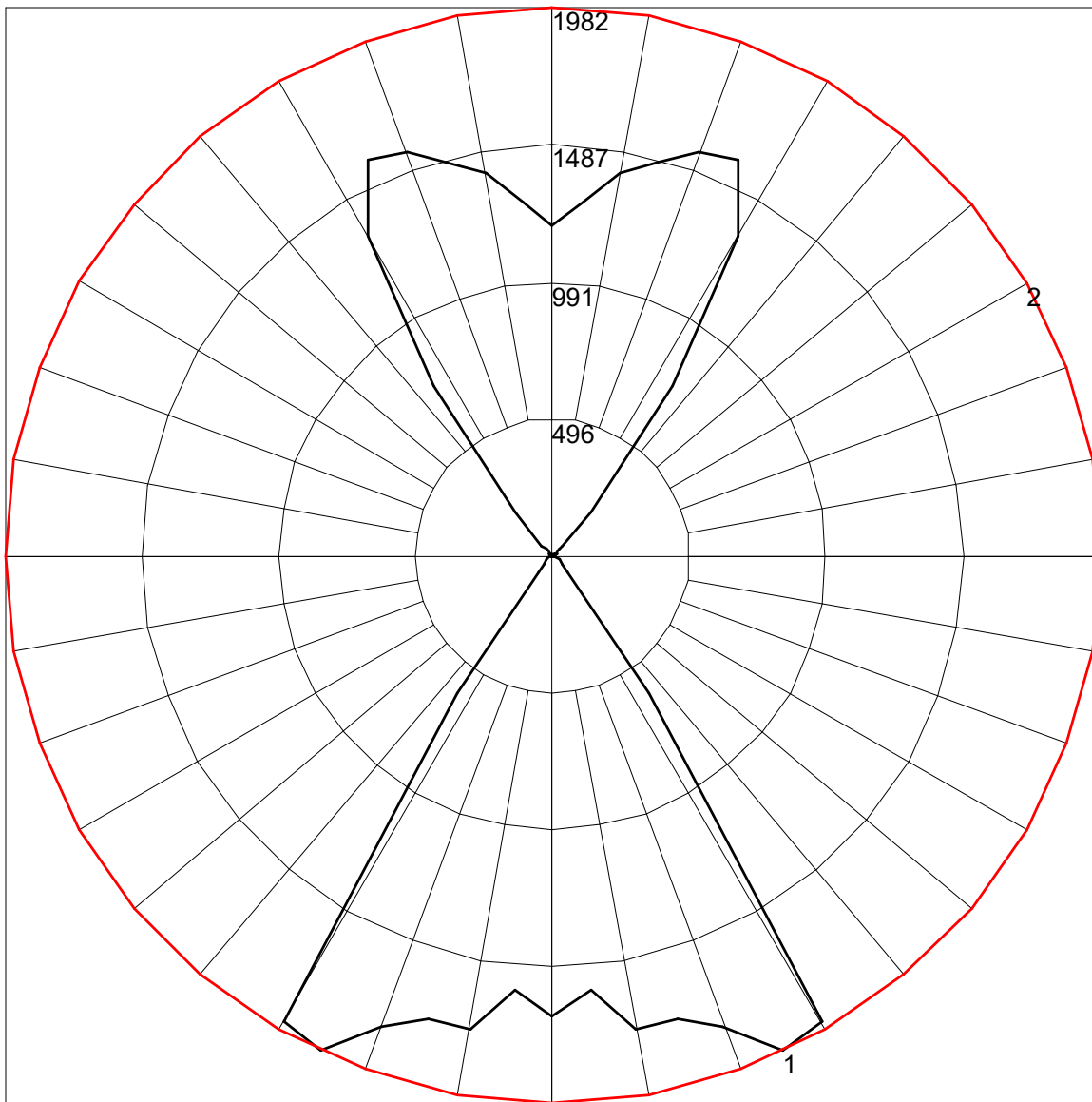
12H	4H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	6H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	8H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

Maximum UGR = 4.7

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POLAR GRAPH



Maximum Candela = 1982 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)