



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 AND #BAL20687

[TESTLAB]

[ISSUE DATE] 16-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

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

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, flush upright frosted 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	3662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	3.704
95	9.967
100	25.166
105	43.189
110	66.032
115	95.491
120	132.623
125	178.546
130	231.025
135	284.798
140	345.156
145	442.470
150	604.464
155	792.918
160	943.740
165	1013.418
170	1034.586
175	1045.170
180	1047.816

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Zone	Lumens	%Lamp	%Fixt
0-20	655.86	N.A.	17.90
0-30	1551.00	N.A.	42.40
0-40	2041.28	N.A.	55.70
0-60	2093.23	N.A.	57.20
0-80	2095.93	N.A.	57.20
0-90	2096.94	N.A.	57.30
10-90	1939.42	N.A.	53.00
20-40	1385.41	N.A.	37.80
20-50	1424.05	N.A.	38.90
40-70	54.65	N.A.	1.50
60-80	2.69	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	1.01	N.A.	0.00
90-110	60.13	N.A.	1.60
90-120	156.48	N.A.	4.30
90-130	317.46	N.A.	8.70
90-150	823.91	N.A.	22.50
90-180	1565.1	N.A.	42.70
110-180	1504.97	N.A.	41.10
0-180	3662.04	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	1.01
90-100	13.29
100-110	46.84
110-120	96.35
120-130	160.98
130-140	220.87
140-150	285.58
150-160	358.98
160-170	282.78
170-180	99.42

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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	102	99	96	93	95	92	90	88	81	79	77	70	68	67	60	59	58	54
2	95	90	85	81	89	84	80	77	74	71	69	65	63	61	56	55	54	50
3	89	82	76	72	84	77	72	68	69	65	62	60	58	56	53	51	50	46
4	84	75	69	64	78	71	66	61	63	59	56	56	53	51	50	48	46	43
5	78	69	63	58	74	66	60	56	59	55	51	53	49	47	47	45	43	40
6	74	64	57	52	69	61	55	50	55	50	47	49	46	43	44	42	40	37
7	69	59	52	48	65	56	50	46	51	46	43	46	43	40	42	39	37	35
8	65	55	48	44	61	52	46	42	48	43	40	43	40	37	39	36	34	32
9	61	51	45	40	58	49	43	39	45	40	37	41	37	34	37	34	32	30
10	58	47	41	37	55	46	40	36	42	37	34	38	35	32	35	32	30	28

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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	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	3H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	12H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

UGR Viewed Endwise

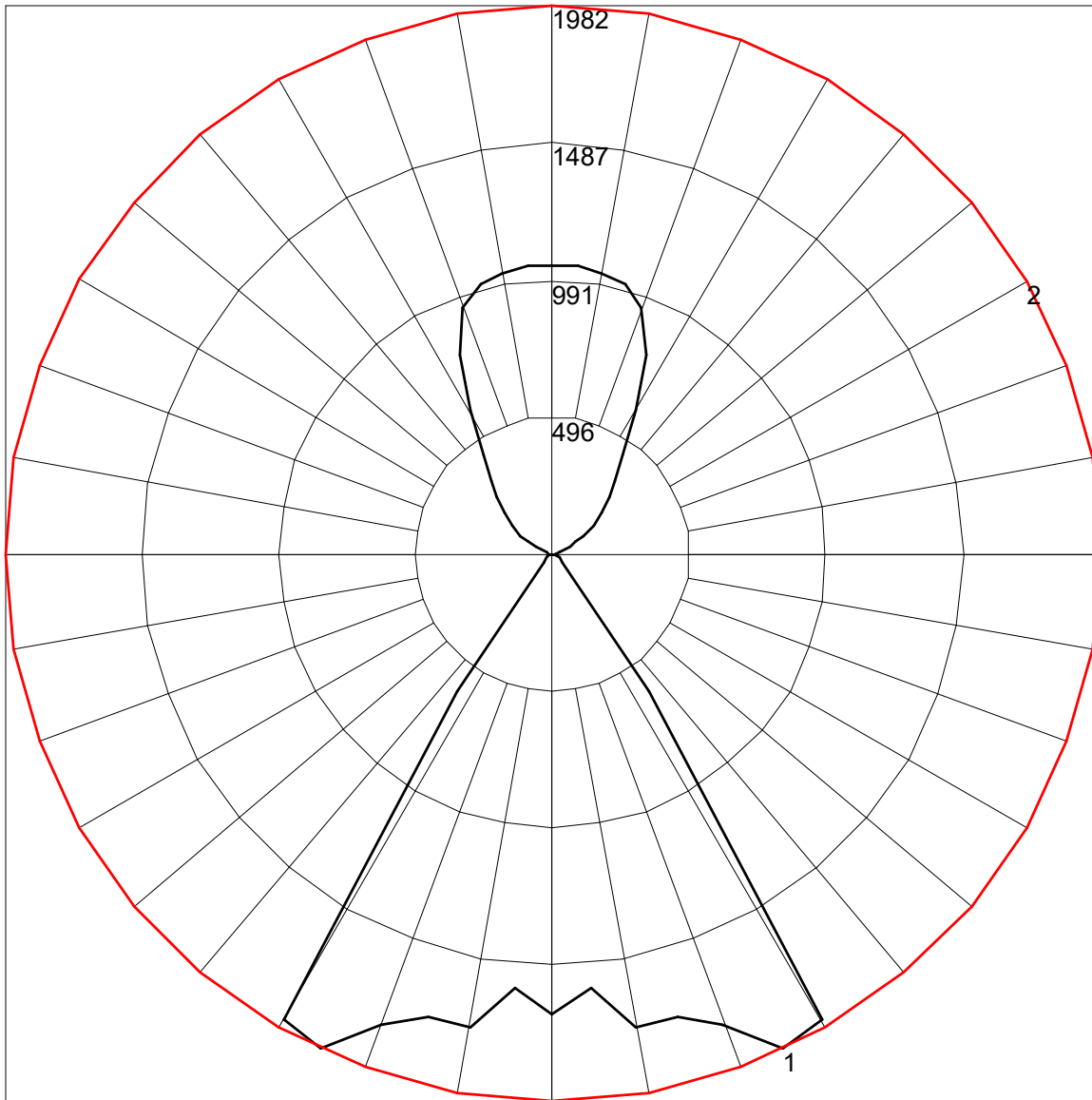
4H	2H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	3H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	12H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
8H	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	12H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
12H	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5

Maximum UGR = 4.5

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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.)