



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OW-CSU-OW-CSD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] made from 13537338.06 and 20685.0

[TESTLAB]

[ISSUEDATE] 02/10/2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6CRDI-TL-L20-835U-L20-835D-xxx-DIM1-UNV-OW-CSU-OW-CSD-WM

[LUMINAIRE] White formed aluminum housing, wide distrib anodized aluminum reflector trim w/clear cover glass up,

[MORE] wide distrib anodized alum open reflector trim down

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

[BALLAST] (2) Osram Optotronic OTi25W/120-277/2A0 DIM-1 Drivers

[_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	3820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	38.8
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)	0.52 ft (Diameter)
Luminous Width (90-270)	0.52 ft (Diameter)
Luminous Height	1.92 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	552	552	552
55	126	126	126
65	11	11	11
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1810.000
5	1864.000
10	1920.000
15	1960.000
20	2047.000
25	2231.000
30	1748.000
35	307.000
40	80.000
45	44.000
50	23.000
55	11.000
60	5.000
65	1.000
70	1.000
75	0.000
80	0.000
85	0.000
90	3.260
95	3.651
100	4.368
105	5.379
110	6.716
115	8.802
120	12.095
125	18.158
130	30.448
135	58.061
140	214.801
145	607.664
150	1114.594
155	1473.520
160	1568.060
165	1528.288
170	1469.934
175	1389.412
180	1332.688

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Zone	Lumens	%Lamp	%Fixt
0-20	739.68	N.A.	19.40
0-30	1691.91	N.A.	44.30
0-40	2059.09	N.A.	53.90
0-60	2106.68	N.A.	55.20
0-80	2108.9	N.A.	55.20
0-90	2109.8	N.A.	55.20
10-90	1930.51	N.A.	50.50
20-40	1319.41	N.A.	34.50
20-50	1355.91	N.A.	35.50
40-70	49.55	N.A.	1.30
60-80	2.23	N.A.	0.10
70-80	0.26	N.A.	0.00
80-90	0.89	N.A.	0.00
90-110	9.84	N.A.	0.30
90-120	18.85	N.A.	0.50
90-130	36.41	N.A.	1.00
90-150	495.66	N.A.	13.00
90-180	1710.05	N.A.	44.80
110-180	1700.21	N.A.	44.50
0-180	3819.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.29
10-20	560.39
20-30	952.23
30-40	367.18
40-50	36.50
50-60	11.09
60-70	1.97
70-80	0.26
80-90	0.89
90-100	4.07
100-110	5.77
110-120	9.01
120-130	17.56
130-140	68.41
140-150	390.84
150-160	646.53
160-170	433.04
170-180	134.83

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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	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	102	98	95	93	94	92	89	87	80	78	76	68	67	66	58	57	57	52
2	95	89	85	81	89	84	80	77	73	71	68	64	62	60	55	54	53	48
3	89	82	76	72	83	77	72	68	68	64	61	60	57	55	52	50	49	45
4	83	75	69	64	78	71	65	61	63	59	56	56	53	51	49	47	45	42
5	78	69	63	58	73	65	60	56	59	54	51	52	49	47	46	44	42	39
6	73	64	57	53	69	61	55	51	55	50	47	49	46	43	44	41	39	37
7	69	59	53	48	65	56	51	46	51	46	43	46	43	40	41	39	37	35
8	65	55	49	44	61	52	47	43	48	43	40	43	40	37	39	36	34	32
9	61	51	45	41	58	49	43	40	45	40	37	41	37	35	37	34	32	31
10	58	48	42	38	55	46	40	37	42	38	35	38	35	32	35	32	30	29

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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	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
	4H	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
	8H	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

UGR Viewed Endwise

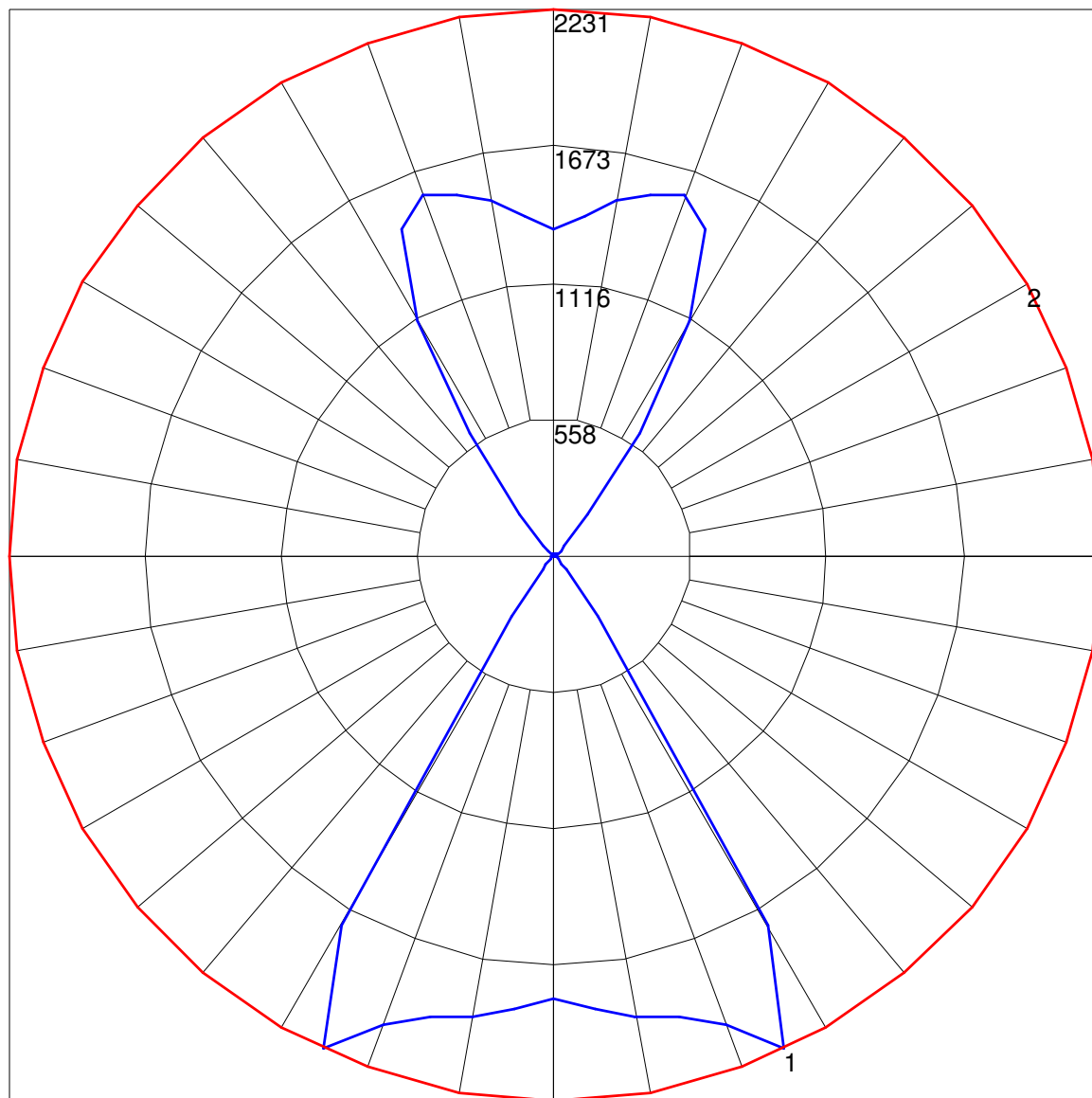
4H	2H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	3H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	4H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	6H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	8H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	12H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
8H	4H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	6H	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	8H	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
12H	4H	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
	8H	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 = 2231 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

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