



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-LW-CSU-OW-CSD-WM\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] made from 13537338.07 and 20685.0

[TESTLAB]

[ISSUEDATE] 02/09/2021

[MANUFAC] WILLIAMS INDOOR

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

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

[LUMINAIRE] White formed aluminum housing, wide distrib white painted flush prismatic lens trim 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	3480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	38.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	0.94
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	3.240
95	8.383
100	22.011
105	38.343
110	58.884
115	84.836
120	116.967
125	156.512
130	201.936
135	247.026
140	295.891
145	368.736
150	498.662
155	675.348
160	842.348
165	936.536
170	969.602
175	978.620
180	976.950

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-LW-CSU-OW-CSD-WM\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	739.68	N.A.	21.30
0-30	1691.91	N.A.	48.60
0-40	2059.09	N.A.	59.20
0-60	2106.68	N.A.	60.50
0-80	2108.9	N.A.	60.60
0-90	2109.79	N.A.	60.60
10-90	1930.5	N.A.	55.50
20-40	1319.41	N.A.	37.90
20-50	1355.91	N.A.	39.00
40-70	49.55	N.A.	1.40
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	53.00	N.A.	1.50
90-120	138.45	N.A.	4.00
90-130	279.61	N.A.	8.00
90-150	709.47	N.A.	20.40
90-180	1369.97	N.A.	39.40
110-180	1316.96	N.A.	37.80
0-180	3479.76	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	11.44
100-110	41.56
110-120	85.45
120-130	141.15
130-140	191.24
140-150	238.62
150-160	307.75
160-170	259.68
170-180	93.07

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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	103	100	97	94	97	94	91	89	83	81	79	72	71	70	63	62	61	57
2	97	91	87	83	91	86	82	79	76	74	71	68	66	64	59	58	57	53
3	91	84	78	74	85	79	74	70	71	67	64	63	61	59	56	54	53	50
4	85	77	71	66	80	73	68	64	66	62	59	59	56	54	53	51	49	46
5	80	71	65	60	76	68	62	58	61	57	54	56	52	50	50	48	46	43
6	75	66	59	55	71	63	57	53	57	53	50	52	49	46	47	45	43	41
7	71	61	55	50	67	58	53	49	54	49	46	49	46	43	45	42	40	38
8	67	57	51	46	63	55	49	45	50	46	42	46	43	40	42	40	38	36
9	63	53	47	43	60	51	45	42	47	43	39	44	40	37	40	37	35	33
10	60	50	44	40	57	48	42	39	44	40	37	41	38	35	38	35	33	31

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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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

### UGR Viewed Endwise

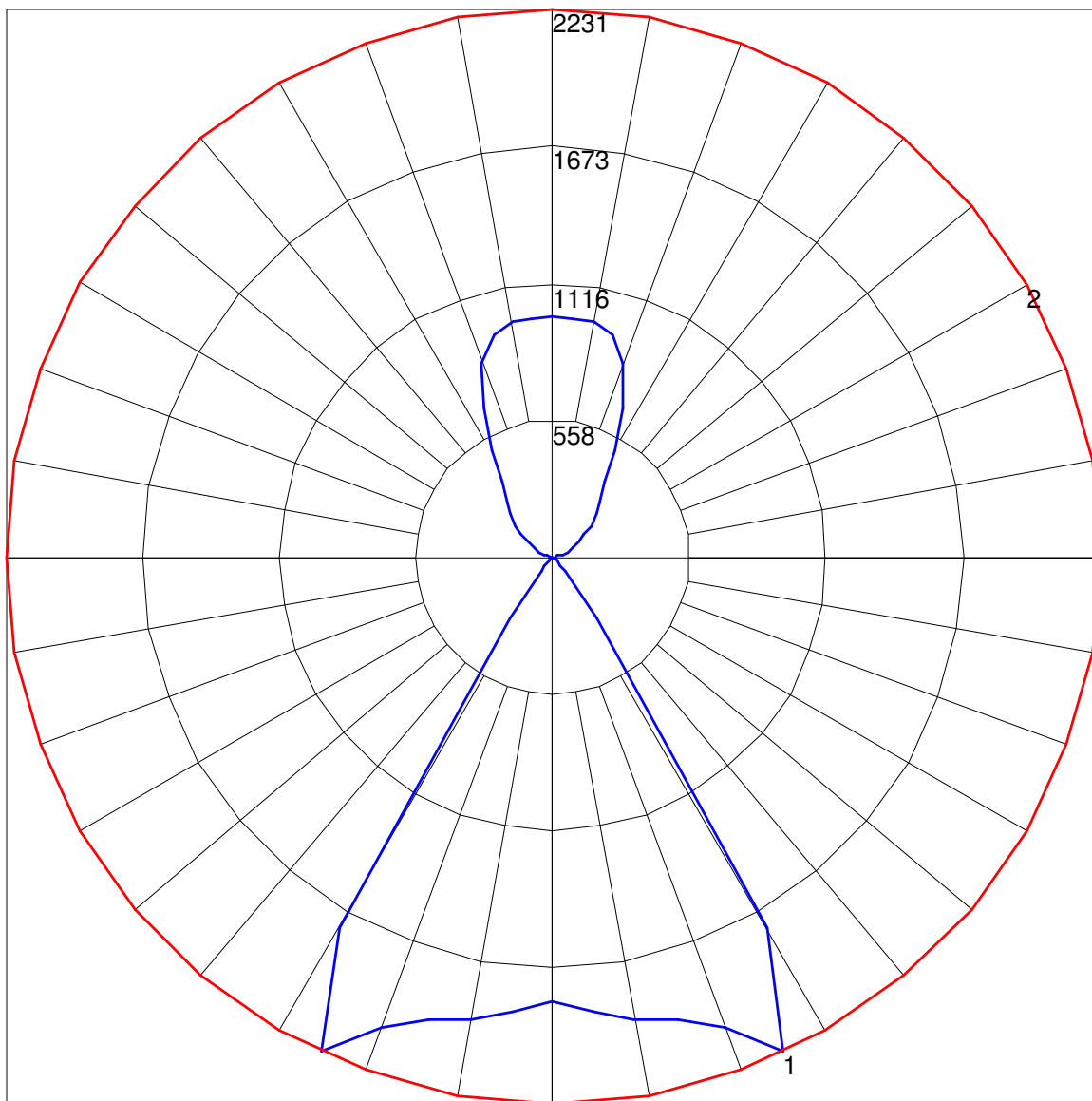
4H	2H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
8H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
12H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

Maximum UGR = 4.3

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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.)