



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CRDI-TL-L10-835U-L20-835D-XXX-DIM-UNV-OW-BLU-OW-BLD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13537338.06 & BALLABS #20685.0

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 05-04-2021

[MANUFAC] H E Williams Inc

[LUMCAT] 6CRDI-TL-L10U-835U-L20-835D-xx-DIM-UNV-OW-BLU-OW-BLD-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)

[BALLAST] (2) Osram Optotronic OTi55W/120-277/2A0 DIM-1 Drivers

[OTHER] 25.2 C, 120.1 V, 0.388 A, 46.27 W, 0.9909 PF, 60 Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1428
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	28.8
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	247	247	247
55	56	56	56
65	5	5	5
75	0	0	0
85	0	0	0

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	<u>0</u>
0	808.450
5	832.569
10	857.582
15	875.448
20	914.307
25	996.492
30	780.757
35	137.124
40	35.733
45	19.653
50	10.273
55	4.913
60	2.233
65	0.447
70	0.447
75	0.000
80	0.000
85	0.000
90	0.925
95	1.036
100	1.240
105	1.527
110	1.906
115	2.498
120	3.433
125	5.154
130	8.642
135	16.479
140	60.967
145	172.474
150	316.356
155	418.230
160	445.063
165	433.775
170	417.212
175	394.357
180	378.257

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Zone	Lumens	%Lamp	%Fixt
0-20	330.38	N.A.	23.10
0-30	755.70	N.A.	52.90
0-40	919.71	N.A.	64.40
0-60	940.96	N.A.	65.90
0-80	941.96	N.A.	66.00
0-90	942.21	N.A.	66.00
10-90	862.13	N.A.	60.40
20-40	589.32	N.A.	41.30
20-50	605.63	N.A.	42.40
40-70	22.13	N.A.	1.60
60-80	0.99	N.A.	0.10
70-80	0.12	N.A.	0.00
80-90	0.25	N.A.	0.00
90-110	2.79	N.A.	0.20
90-120	5.35	N.A.	0.40
90-130	10.33	N.A.	0.70
90-150	140.68	N.A.	9.90
90-180	485.37	N.A.	34.00
110-180	482.57	N.A.	33.80
0-180	1427.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.08
10-20	250.30
20-30	425.32
30-40	164.00
40-50	16.30
50-60	4.95
60-70	0.88
70-80	0.12
80-90	0.25
90-100	1.16
100-110	1.64
110-120	2.56
120-130	4.98
130-140	19.42
140-150	110.93
150-160	183.51
160-170	122.91
170-180	38.27

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	104	101	99	96	98	96	93	91	86	84	82	76	75	74	67	67	66	62
2	98	93	88	85	93	88	84	81	79	77	74	71	69	68	64	63	61	58
3	92	85	80	76	87	81	77	73	74	70	67	67	64	62	61	59	57	54
4	87	79	73	68	82	75	70	66	69	65	62	63	60	57	57	55	53	50
5	82	73	67	62	78	70	64	60	64	60	57	59	56	53	54	52	50	47
6	77	68	61	57	73	65	59	55	60	56	52	55	52	49	51	48	46	44
7	73	63	57	52	69	61	55	51	56	52	48	52	49	46	48	46	43	41
8	69	59	53	48	66	57	51	47	53	48	45	49	45	43	46	43	41	39
9	65	55	49	45	62	53	48	44	50	45	42	46	43	40	43	40	38	36
10	62	52	46	42	59	50	44	41	47	42	39	44	40	37	41	38	36	34

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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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	3H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	4H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	6H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	8H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	12H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

UGR Viewed Endwise

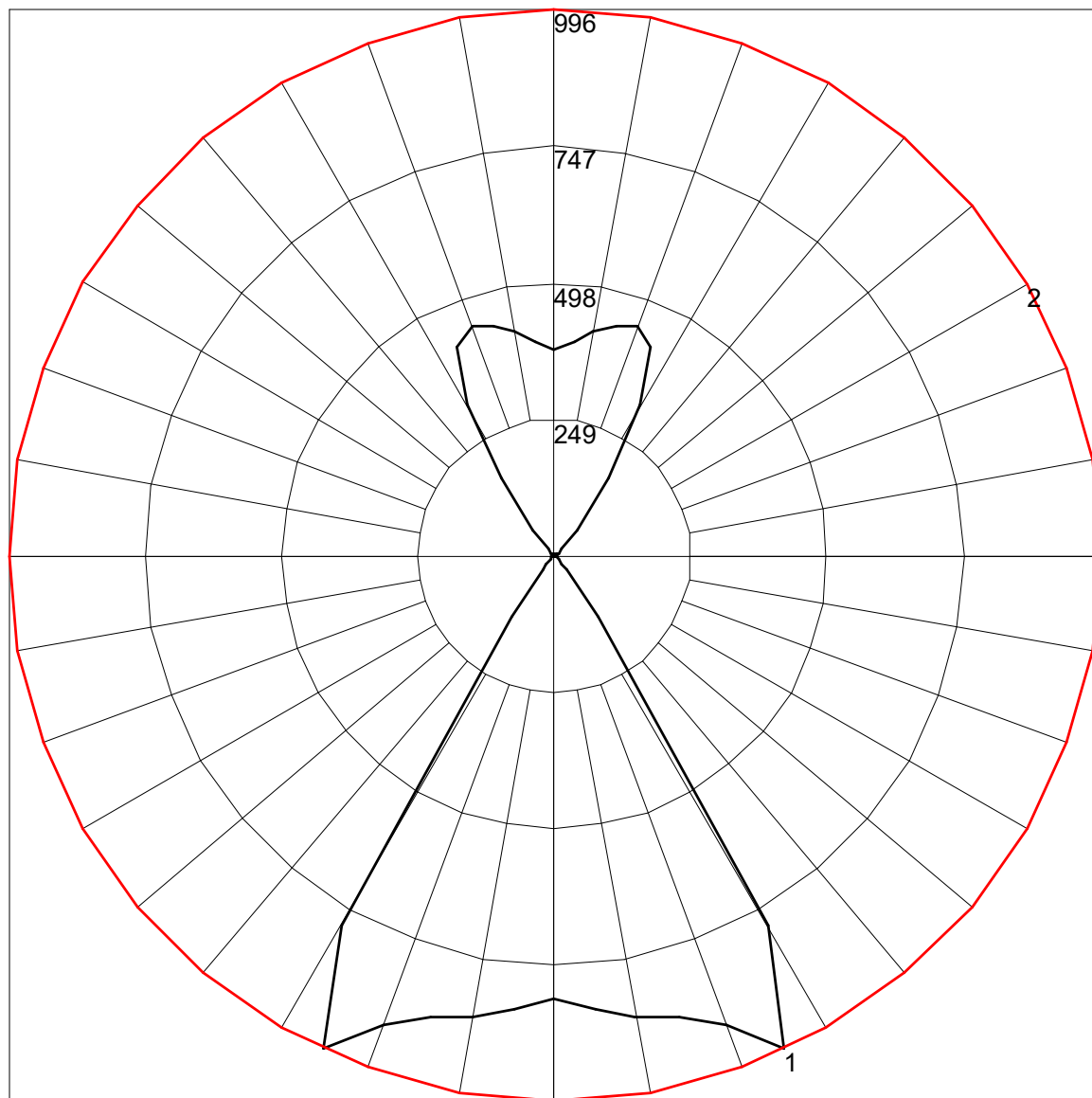
4H	2H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	3H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	4H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	6H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	8H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	12H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
8H	4H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	6H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	8H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	12H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
12H	4H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	6H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	8H	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Maximum UGR = 1.2

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POLAR GRAPH



Maximum Candela = 996.492 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.)