



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L50-835U-L50-835D-XXX-DIM-UNV-OW-OW-CS-CM\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GENERATED FROM 13537338.03  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 03-19-2024  
 [MANUFACT] H E Williams Inc  
 [LUMCAT] 8CRDI-TL-L50-835U-L50-835D-xxx-DIM-UNV-OW-OW-CS-CM  
 [LUMINAIRE] White formed aluminum housing, wide distribution reflector  
 [MORE] trims, clear upright glass lens enclosure, downlight enclosure  
 [LAMP] white LED  
 [BALLAST] Osram Optotronic OTi55W/120-277/2A0 DIM- Drivers  
 [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	9358
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	89.1
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	969	969	969
55	251	251	251
65	37	37	37
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	3999.718	3999.718	3999.718	3999.718	3999.718	3999.718	3999.718	3999.718	3999.718
5	3777.246	3777.246	3777.246	3777.246	3777.246	3777.246	3777.246	3777.246	3777.246
10	4157.602	4157.602	4157.602	4157.602	4157.602	4157.602	4157.602	4157.602	4157.602
15	4150.425	4150.425	4150.425	4150.425	4150.425	4150.425	4150.425	4150.425	4150.425
20	4334.623	4334.623	4334.623	4334.623	4334.623	4334.623	4334.623	4334.623	4334.623
25	4741.293	4741.293	4741.293	4741.293	4741.293	4741.293	4741.293	4741.293	4741.293
30	4657.567	4657.567	4657.567	4657.567	4657.567	4657.567	4657.567	4657.567	4657.567
35	1444.874	1444.874	1444.874	1444.874	1444.874	1444.874	1444.874	1444.874	1444.874
40	198.551	198.551	198.551	198.551	198.551	198.551	198.551	198.551	198.551
45	110.040	110.040	110.040	110.040	110.040	110.040	110.040	110.040	110.040
50	64.589	64.589	64.589	64.589	64.589	64.589	64.589	64.589	64.589
55	31.098	31.098	31.098	31.098	31.098	31.098	31.098	31.098	31.098
60	16.745	16.745	16.745	16.745	16.745	16.745	16.745	16.745	16.745
65	4.784	4.784	4.784	4.784	4.784	4.784	4.784	4.784	4.784
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	8.526	8.526	8.526	8.526	8.526	8.526	8.526	8.526	8.526
95	9.677	9.677	9.677	9.677	9.677	9.677	9.677	9.677	9.677
100	11.707	11.707	11.707	11.707	11.707	11.707	11.707	11.707	11.707
105	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483
110	18.272	18.272	18.272	18.272	18.272	18.272	18.272	18.272	18.272
115	23.957	23.957	23.957	23.957	23.957	23.957	23.957	23.957	23.957
120	33.160	33.160	33.160	33.160	33.160	33.160	33.160	33.160	33.160
125	50.215	50.215	50.215	50.215	50.215	50.215	50.215	50.215	50.215
130	79.788	79.788	79.788	79.788	79.788	79.788	79.788	79.788	79.788
135	127.091	127.091	127.091	127.091	127.091	127.091	127.091	127.091	127.091
140	506.268	506.268	506.268	506.268	506.268	506.268	506.268	506.268	506.268
145	1799.450	1799.450	1799.450	1799.450	1799.450	1799.450	1799.450	1799.450	1799.450
150	3184.735	3184.735	3184.735	3184.735	3184.735	3184.735	3184.735	3184.735	3184.735
155	3776.882	3776.882	3776.882	3776.882	3776.882	3776.882	3776.882	3776.882	3776.882
160	3700.411	3700.411	3700.411	3700.411	3700.411	3700.411	3700.411	3700.411	3700.411
165	3502.126	3502.126	3502.126	3502.126	3502.126	3502.126	3502.126	3502.126	3502.126
170	3355.950	3355.950	3355.950	3355.950	3355.950	3355.950	3355.950	3355.950	3355.950
175	3062.922	3062.922	3062.922	3062.922	3062.922	3062.922	3062.922	3062.922	3062.922
180	2840.399	2840.399	2840.399	2840.399	2840.399	2840.399	2840.399	2840.399	2840.399

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CRDI-TL-L50-835U-L50-835D-XXX-DIM-UNV-OW-OW-CS-CM\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1568.94	N.A.	16.80
0-30	3710.27	N.A.	39.60
0-40	4883.09	N.A.	52.20
0-60	5007.38	N.A.	53.50
0-80	5013.82	N.A.	53.60
0-90	5016.16	N.A.	53.60
10-90	4639.33	N.A.	49.60
20-40	3314.15	N.A.	35.40
20-50	3406.57	N.A.	36.40
40-70	130.73	N.A.	1.40
60-80	6.45	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	2.33	N.A.	0.00
90-110	26.36	N.A.	0.30
90-120	50.94	N.A.	0.50
90-130	98.48	N.A.	1.10
90-150	1376.2	N.A.	14.70
90-180	4342.03	N.A.	46.40
110-180	4315.67	N.A.	46.10
0-180	9358.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	376.83
10-20	1192.11
20-30	2141.33
30-40	1172.82
40-50	92.42
50-60	31.86
60-70	6.45
70-80	0.00
80-90	2.33
90-100	10.79
100-110	15.57
110-120	24.58
120-130	47.54
130-140	159.07
140-150	1118.65
150-160	1665.23
160-170	1000.41
170-180	300.20

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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	62	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	33
8	64	53	47	42	60	51	45	41	46	41	38	41	38	35	37	34	32	30
9	60	50	43	39	57	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	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	3H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	4H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	6H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	8H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	12H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8

### UGR Viewed Endwise

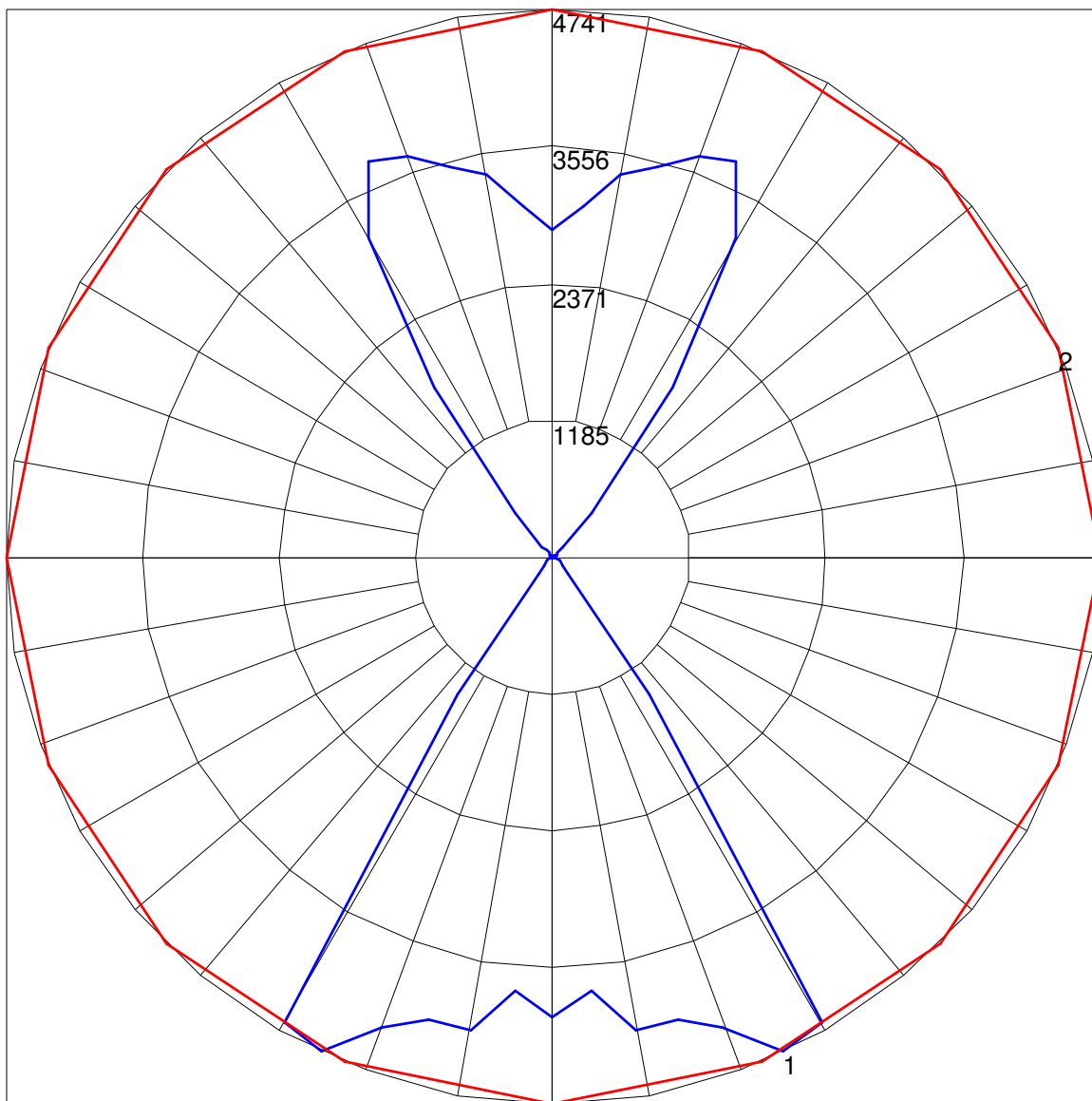
4H	2H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	3H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	4H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	6H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	8H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	12H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
8H	4H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	6H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	8H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	12H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
12H	4H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	6H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	8H	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8

Maximum UGR = 7.8

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## POLAR GRAPH



Maximum Candela = 4741.293 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.)