



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13537338.03  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 06-23-2021  
 [MANUFAC] H E Williams Inc  
 [LUMCAT] 8CRDI-TL-L50-835U-L50-835D-xx-DIM-UNV-OW-RW-CS  
 [MORE] CM  
 [LUMINAIRE] White formed aluminum housing, wide distribution reflector  
 [MORE] trims, clear uplight glass lens enclosure, downlight enclosure  
 [LAMP] Two white LEDs (one up/one down)  
 [BALLAST] (2) Osram Optotronic OTi55W/120-277/2A0 DIM-1 Drivers  
 [OTHER] 24.5 C, 120.08 V, 0.464 A, 55.25 W, 0.99 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	7570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	4586	4586	4586
55	2840	2840	2840
65	1400	1400	1400
75	514	514	514
85	138	138	138

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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	2408.984	2408.984	2408.984	2408.984	2408.984	2408.984	2408.984	2408.984	2408.984
5	2350.393	2350.393	2350.393	2350.393	2350.393	2350.393	2350.393	2350.393	2350.393
10	2255.746	2255.746	2255.746	2255.746	2255.746	2255.746	2255.746	2255.746	2255.746
15	2147.579	2147.579	2147.579	2147.579	2147.579	2147.579	2147.579	2147.579	2147.579
20	2054.735	2054.735	2054.735	2054.735	2054.735	2054.735	2054.735	2054.735	2054.735
25	1884.821	1884.821	1884.821	1884.821	1884.821	1884.821	1884.821	1884.821	1884.821
30	1475.587	1475.587	1475.587	1475.587	1475.587	1475.587	1475.587	1475.587	1475.587
35	888.327	888.327	888.327	888.327	888.327	888.327	888.327	888.327	888.327
40	619.485	619.485	619.485	619.485	619.485	619.485	619.485	619.485	619.485
45	521.008	521.008	521.008	521.008	521.008	521.008	521.008	521.008	521.008
50	441.910	441.910	441.910	441.910	441.910	441.910	441.910	441.910	441.910
55	352.446	352.446	352.446	352.446	352.446	352.446	352.446	352.446	352.446
60	262.307	262.307	262.307	262.307	262.307	262.307	262.307	262.307	262.307
65	183.209	183.209	183.209	183.209	183.209	183.209	183.209	183.209	183.209
70	116.956	116.956	116.956	116.956	116.956	116.956	116.956	116.956	116.956
75	68.732	68.732	68.732	68.732	68.732	68.732	68.732	68.732	68.732
80	40.788	40.788	40.788	40.788	40.788	40.788	40.788	40.788	40.788
85	18.253	18.253	18.253	18.253	18.253	18.253	18.253	18.253	18.253
90	10.687	10.687	10.687	10.687	10.687	10.687	10.687	10.687	10.687
95	9.572	9.572	9.572	9.572	9.572	9.572	9.572	9.572	9.572
100	11.580	11.580	11.580	11.580	11.580	11.580	11.580	11.580	11.580
105	14.326	14.326	14.326	14.326	14.326	14.326	14.326	14.326	14.326
110	18.074	18.074	18.074	18.074	18.074	18.074	18.074	18.074	18.074
115	23.698	23.698	23.698	23.698	23.698	23.698	23.698	23.698	23.698
120	32.801	32.801	32.801	32.801	32.801	32.801	32.801	32.801	32.801
125	49.670	49.670	49.670	49.670	49.670	49.670	49.670	49.670	49.670
130	78.923	78.923	78.923	78.923	78.923	78.923	78.923	78.923	78.923
135	125.713	125.713	125.713	125.713	125.713	125.713	125.713	125.713	125.713
140	500.777	500.777	500.777	500.777	500.777	500.777	500.777	500.777	500.777
145	1779.934	1779.934	1779.934	1779.934	1779.934	1779.934	1779.934	1779.934	1779.934
150	3150.195	3150.195	3150.195	3150.195	3150.195	3150.195	3150.195	3150.195	3150.195
155	3735.920	3735.920	3735.920	3735.920	3735.920	3735.920	3735.920	3735.920	3735.920
160	3660.278	3660.278	3660.278	3660.278	3660.278	3660.278	3660.278	3660.278	3660.278
165	3464.144	3464.144	3464.144	3464.144	3464.144	3464.144	3464.144	3464.144	3464.144
170	3319.554	3319.554	3319.554	3319.554	3319.554	3319.554	3319.554	3319.554	3319.554
175	3029.704	3029.704	3029.704	3029.704	3029.704	3029.704	3029.704	3029.704	3029.704
180	2809.594	2809.594	2809.594	2809.594	2809.594	2809.594	2809.594	2809.594	2809.594

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

Zone	Lumens	%Lamp	%Fixt
0-20	829.20	N.A.	11.00
0-30	1667.65	N.A.	22.00
0-40	2267.32	N.A.	30.00
0-60	2987.89	N.A.	39.50
0-80	3250.04	N.A.	42.90
0-90	3274.00	N.A.	43.30
10-90	3052.33	N.A.	40.30
20-40	1438.12	N.A.	19.00
20-50	1843.86	N.A.	24.40
40-70	904.87	N.A.	12.00
60-80	262.15	N.A.	3.50
70-80	77.84	N.A.	1.00
80-90	23.97	N.A.	0.30
90-110	26.70	N.A.	0.40
90-120	51.01	N.A.	0.70
90-130	98.03	N.A.	1.30
90-150	1361.9	N.A.	18.00
90-180	4295.56	N.A.	56.70
110-180	4268.87	N.A.	56.40
0-180	7569.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	221.67
10-20	607.53
20-30	838.45
30-40	599.67
40-50	405.74
50-60	314.82
60-70	184.31
70-80	77.84
80-90	23.97
90-100	11.29
100-110	15.40
110-120	24.31
120-130	47.02
130-140	157.35
140-150	1106.52
150-160	1647.17
160-170	989.56
170-180	296.94

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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	97	93	90	87	89	86	83	80	71	69	67	58	57	56	46	45	44	39
2	90	83	78	73	82	76	72	68	64	61	58	52	50	48	42	40	39	34
3	83	74	68	62	76	68	63	58	58	53	50	47	45	42	38	36	35	31
4	76	66	59	54	70	61	55	51	52	47	44	43	40	37	35	33	31	27
5	71	60	53	47	65	56	49	44	47	43	39	40	36	33	32	30	28	25
6	65	54	47	42	60	51	44	39	43	38	35	36	33	30	30	27	26	23
7	61	50	42	37	56	46	40	35	40	35	31	34	30	27	28	25	23	21
8	57	45	38	33	52	42	36	32	37	32	28	31	27	25	26	23	21	19
9	53	42	35	30	49	39	33	29	34	29	26	29	25	23	24	22	20	18
10	50	39	32	28	46	36	30	26	31	27	24	27	23	21	23	20	18	16

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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	8.0	8.8	9.1	9.8	11.2	8.0	8.8	9.1	9.8	11.2
	3H	8.7	9.3	9.7	10.4	11.7	8.7	9.3	9.7	10.4	11.7
	4H	8.8	9.4	9.8	10.4	11.8	8.8	9.4	9.8	10.4	11.8
	6H	8.8	9.3	9.8	10.4	11.8	8.8	9.3	9.8	10.4	11.8
	8H	8.8	9.3	9.8	10.4	11.8	8.8	9.3	9.8	10.4	11.8
	12H	8.7	9.2	9.8	10.3	11.7	8.7	9.2	9.8	10.3	11.7

### UGR Viewed Endwise

4H	2H	8.2	8.8	9.2	9.8	11.2	8.2	8.8	9.2	9.8	11.2
	3H	8.9	9.4	9.9	10.5	11.9	8.9	9.4	9.9	10.5	11.9
	4H	9.0	9.5	10.1	10.5	12.0	9.0	9.5	10.1	10.5	12.0
	6H	9.1	9.5	10.2	10.6	12.0	9.1	9.5	10.2	10.6	12.0
	8H	9.1	9.4	10.2	10.5	12.0	9.1	9.4	10.2	10.5	12.0
	12H	9.0	9.4	10.1	10.5	11.9	9.0	9.4	10.1	10.5	11.9

8H	4H	9.0	9.3	10.1	10.4	11.9	9.0	9.3	10.1	10.4	11.9
	6H	9.1	9.4	10.2	10.5	11.9	9.1	9.4	10.2	10.5	11.9
	8H	9.1	9.3	10.2	10.4	11.9	9.1	9.3	10.2	10.4	11.9
	12H	9.1	9.3	10.2	10.4	11.9	9.1	9.3	10.2	10.4	11.9

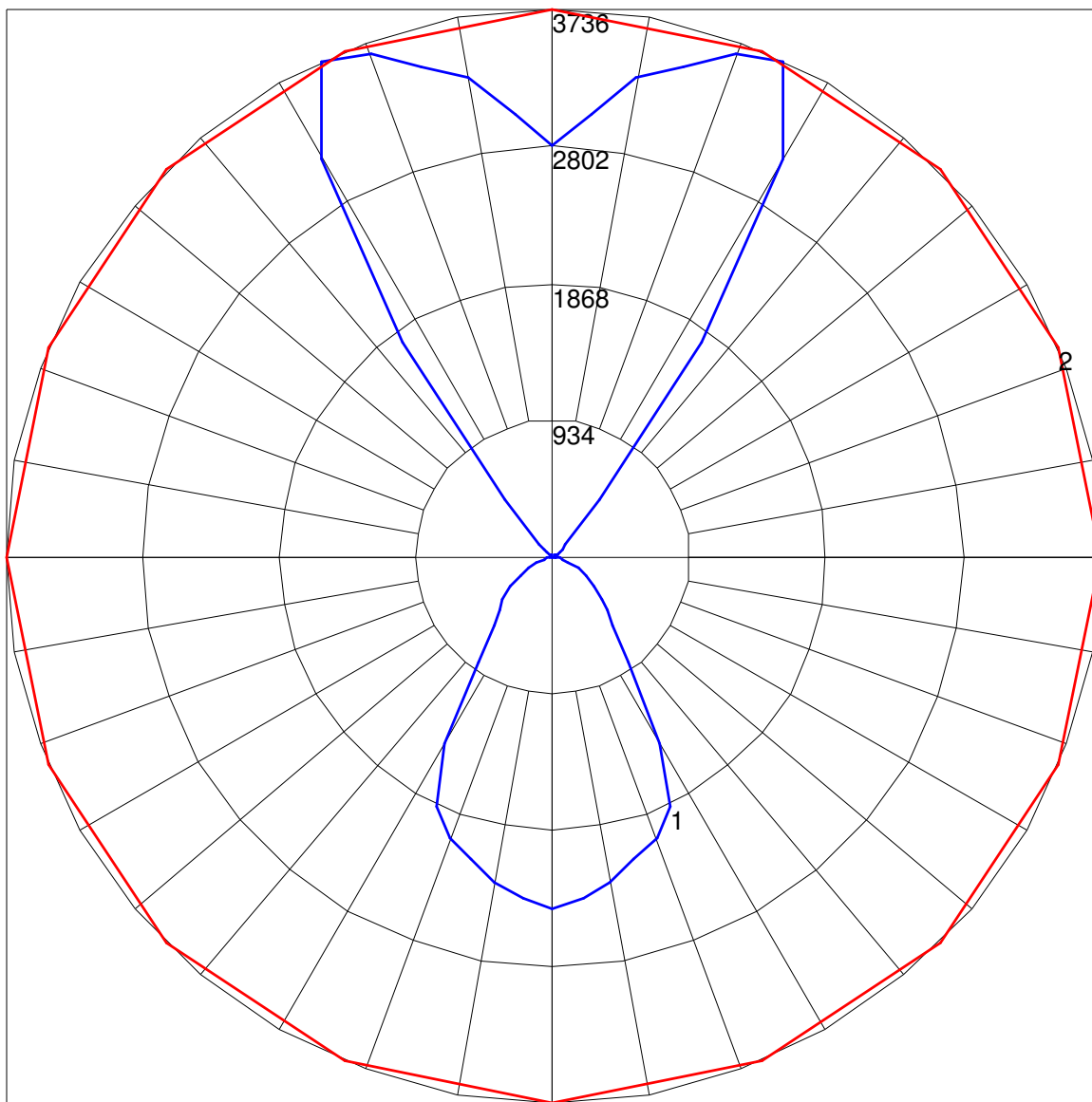
12H	4H	8.9	9.2	10.0	10.3	11.8	8.9	9.2	10.0	10.3	11.8
	6H	9.0	9.3	10.1	10.4	11.9	9.0	9.3	10.1	10.4	11.9
	8H	9.0	9.3	10.2	10.4	11.9	9.0	9.3	10.2	10.4	11.9

Maximum UGR = 12.0

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## POLAR GRAPH



Maximum Candela = 3735.92 Located At Horizontal Angle = 0, Vertical Angle = 155

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

# 2 - Horizontal Cone Through Vertical Angle (155) (Through Max. Cd.)