



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L60-835D-XXX-DIM-UNV-OW-OW-CS-CM\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13537338.03  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 2023-06-20  
 [MANUFAC] H E Williams Inc  
 [LUMCAT] 8CRDI-TL-L60-835U-L60-835D-xxx-DIM-UNV-OW-CSU-OW-CSD-CM  
 [LUMINAIRE] 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 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	11263
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	100.3
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	1167	1167	1167
55	302	302	302
65	44	44	44
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	4820.562	4820.562	4820.562	4820.562	4820.562	4820.562	4820.562	4820.562	4820.562
5	4552.432	4552.432	4552.432	4552.432	4552.432	4552.432	4552.432	4552.432	4552.432
10	5010.847	5010.847	5010.847	5010.847	5010.847	5010.847	5010.847	5010.847	5010.847
15	5002.198	5002.198	5002.198	5002.198	5002.198	5002.198	5002.198	5002.198	5002.198
20	5224.197	5224.197	5224.197	5224.197	5224.197	5224.197	5224.197	5224.197	5224.197
25	5714.326	5714.326	5714.326	5714.326	5714.326	5714.326	5714.326	5714.326	5714.326
30	5613.417	5613.417	5613.417	5613.417	5613.417	5613.417	5613.417	5613.417	5613.417
35	1741.399	1741.399	1741.399	1741.399	1741.399	1741.399	1741.399	1741.399	1741.399
40	239.298	239.298	239.298	239.298	239.298	239.298	239.298	239.298	239.298
45	132.623	132.623	132.623	132.623	132.623	132.623	132.623	132.623	132.623
50	77.844	77.844	77.844	77.844	77.844	77.844	77.844	77.844	77.844
55	37.480	37.480	37.480	37.480	37.480	37.480	37.480	37.480	37.480
60	20.182	20.182	20.182	20.182	20.182	20.182	20.182	20.182	20.182
65	5.766	5.766	5.766	5.766	5.766	5.766	5.766	5.766	5.766
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	10.245	10.245	10.245	10.245	10.245	10.245	10.245	10.245	10.245
95	11.628	11.628	11.628	11.628	11.628	11.628	11.628	11.628	11.628
100	14.068	14.068	14.068	14.068	14.068	14.068	14.068	14.068	14.068
105	17.404	17.404	17.404	17.404	17.404	17.404	17.404	17.404	17.404
110	21.957	21.957	21.957	21.957	21.957	21.957	21.957	21.957	21.957
115	28.789	28.789	28.789	28.789	28.789	28.789	28.789	28.789	28.789
120	39.847	39.847	39.847	39.847	39.847	39.847	39.847	39.847	39.847
125	60.341	60.341	60.341	60.341	60.341	60.341	60.341	60.341	60.341
130	95.878	95.878	95.878	95.878	95.878	95.878	95.878	95.878	95.878
135	152.720	152.720	152.720	152.720	152.720	152.720	152.720	152.720	152.720
140	608.361	608.361	608.361	608.361	608.361	608.361	608.361	608.361	608.361
145	2162.323	2162.323	2162.323	2162.323	2162.323	2162.323	2162.323	2162.323	2162.323
150	3826.962	3826.962	3826.962	3826.962	3826.962	3826.962	3826.962	3826.962	3826.962
155	4538.519	4538.519	4538.519	4538.519	4538.519	4538.519	4538.519	4538.519	4538.519
160	4446.627	4446.627	4446.627	4446.627	4446.627	4446.627	4446.627	4446.627	4446.627
165	4208.357	4208.357	4208.357	4208.357	4208.357	4208.357	4208.357	4208.357	4208.357
170	4032.703	4032.703	4032.703	4032.703	4032.703	4032.703	4032.703	4032.703	4032.703
175	3680.584	3680.584	3680.584	3680.584	3680.584	3680.584	3680.584	3680.584	3680.584
180	3413.187	3413.187	3413.187	3413.187	3413.187	3413.187	3413.187	3413.187	3413.187

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L60-835D-XXX-DIM-UNV-OW-OW-CS-CM\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1890.93	N.A.	16.80
0-30	4471.71	N.A.	39.70
0-40	5885.22	N.A.	52.30
0-60	6035.02	N.A.	53.60
0-80	6042.79	N.A.	53.70
0-90	6045.59	N.A.	53.70
10-90	5591.43	N.A.	49.60
20-40	3994.3	N.A.	35.50
20-50	4105.69	N.A.	36.50
40-70	157.56	N.A.	1.40
60-80	7.77	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	2.81	N.A.	0.00
90-110	31.68	N.A.	0.30
90-120	61.22	N.A.	0.50
90-130	118.34	N.A.	1.10
90-150	1653.73	N.A.	14.70
90-180	5217.64	N.A.	46.30
110-180	5185.96	N.A.	46.00
0-180	11263.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	454.16
10-20	1436.77
20-30	2580.78
30-40	1413.51
40-50	111.39
50-60	38.40
60-70	7.77
70-80	0.00
80-90	2.81
90-100	12.97
100-110	18.71
110-120	29.53
120-130	57.13
130-140	191.15
140-150	1344.23
150-160	2001.03
160-170	1202.15
170-180	360.73

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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	89	86	79	77	75	67	66	65	56	56	55	50
2	94	89	84	80	88	83	79	76	72	69	67	62	60	59	53	52	51	47
3	88	81	75	70	82	76	71	67	67	63	60	58	56	53	50	48	47	43
4	82	74	68	63	77	70	64	60	62	58	54	54	51	49	47	45	44	40
5	77	68	61	56	72	64	58	54	57	53	49	50	47	45	44	42	40	38
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	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	3H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	4H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	6H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	8H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	12H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4

### UGR Viewed Endwise

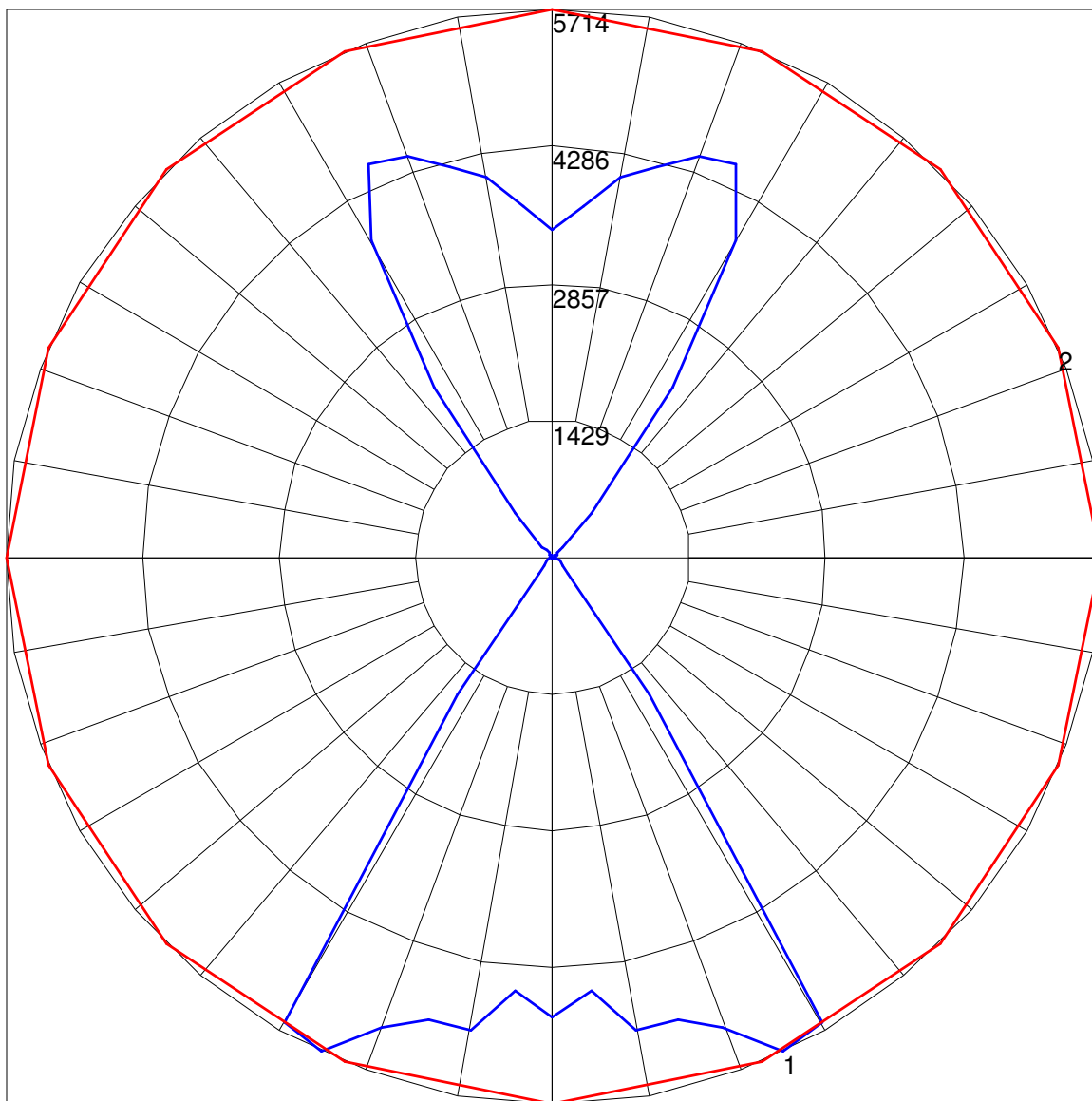
4H	2H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	3H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	4H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	6H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	8H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	12H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
8H	4H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	6H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	8H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	12H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
12H	4H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	6H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	8H	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4

Maximum UGR = 8.4

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## POLAR GRAPH



Maximum Candela = 5714.326 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.)