



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L70-835D-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.
 [ISSUEDATE] 2023-06-21
 [MANUFAC] H E Williams Inc
 [LUMCAT] 8CRDI-TL-L60-835U-L70-835D-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] 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	12184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	102.2
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	1345	1345	1345
55	348	348	348
65	51	51	51
75	0	0	0
85	0	0	0

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L70-835D-XXX-DIM-UNV-OW-OW-CS-CM_.IES

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	5555.252	5555.252	5555.252	5555.252	5555.252	5555.252	5555.252	5555.252	5555.252
5	5246.257	5246.257	5246.257	5246.257	5246.257	5246.257	5246.257	5246.257	5246.257
10	5774.538	5774.538	5774.538	5774.538	5774.538	5774.538	5774.538	5774.538	5774.538
15	5764.570	5764.570	5764.570	5764.570	5764.570	5764.570	5764.570	5764.570	5764.570
20	6020.404	6020.404	6020.404	6020.404	6020.404	6020.404	6020.404	6020.404	6020.404
25	6585.233	6585.233	6585.233	6585.233	6585.233	6585.233	6585.233	6585.233	6585.233
30	6468.944	6468.944	6468.944	6468.944	6468.944	6468.944	6468.944	6468.944	6468.944
35	2006.801	2006.801	2006.801	2006.801	2006.801	2006.801	2006.801	2006.801	2006.801
40	275.769	275.769	275.769	275.769	275.769	275.769	275.769	275.769	275.769
45	152.836	152.836	152.836	152.836	152.836	152.836	152.836	152.836	152.836
50	89.708	89.708	89.708	89.708	89.708	89.708	89.708	89.708	89.708
55	43.193	43.193	43.193	43.193	43.193	43.193	43.193	43.193	43.193
60	23.258	23.258	23.258	23.258	23.258	23.258	23.258	23.258	23.258
65	6.645	6.645	6.645	6.645	6.645	6.645	6.645	6.645	6.645
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-L70-835D-XXX-DIM-UNV-OW-OW-CS-CM_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2179.12	N.A.	17.90
0-30	5153.23	N.A.	42.30
0-40	6782.17	N.A.	55.70
0-60	6954.8	N.A.	57.10
0-80	6963.75	N.A.	57.20
0-90	6966.56	N.A.	57.20
10-90	6443.18	N.A.	52.90
20-40	4603.06	N.A.	37.80
20-50	4731.43	N.A.	38.80
40-70	181.58	N.A.	1.50
60-80	8.95	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.	1.00
90-150	1653.73	N.A.	13.60
90-180	5217.64	N.A.	42.80
110-180	5185.96	N.A.	42.60
0-180	12184.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	523.38
10-20	1655.74
20-30	2974.12
30-40	1628.94
40-50	128.37
50-60	44.26
60-70	8.95
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L70-835D-XXX-DIM-UNV-OW-OW-CS-CM_.IES

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57
1	102	99	96	93	95	92	90	88	80	79	77	70	68	67	60	59	58	53
2	95	90	85	81	89	84	80	77	74	71	69	65	63	61	56	55	54	50
3	89	82	76	72	84	77	72	68	69	65	62	60	58	56	53	51	50	46
4	84	75	69	64	78	71	66	61	63	59	56	56	53	51	50	48	46	43
5	78	69	63	58	74	65	60	55	59	54	51	53	49	47	47	45	43	40
6	73	64	57	52	69	61	55	50	55	50	47	49	46	43	44	42	40	37
7	69	59	52	48	65	56	50	46	51	46	43	46	43	40	41	39	37	35
8	65	55	48	44	61	52	46	42	48	43	40	43	40	37	39	36	34	32
9	61	51	44	40	58	49	43	39	44	40	37	41	37	34	37	34	32	30
10	58	47	41	37	55	45	40	36	42	37	34	38	35	32	35	32	30	28

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L70-835D-XXX-DIM-UNV-OW-OW-CS-CM_.IES

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	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	3H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	4H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	6H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	8H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	12H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7

UGR Viewed Endwise

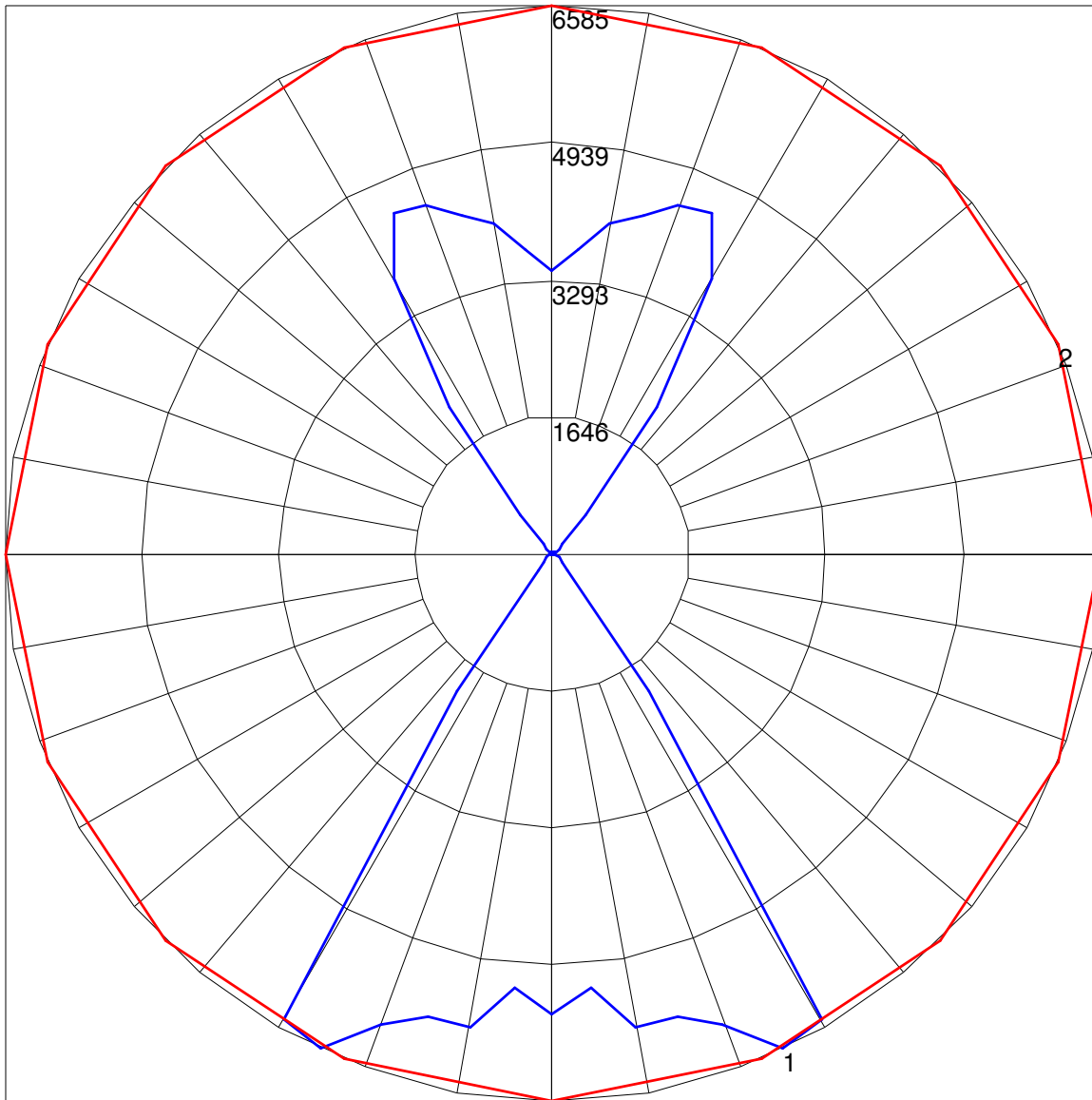
4H	2H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	3H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	4H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	6H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	8H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	12H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
8H	4H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	6H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	8H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	12H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
12H	4H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	6H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	8H	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7

Maximum UGR = 8.7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L60-835U-L70-835D-XXX-DIM-UNV-OW-OW-CS-CM_.IES

POLAR GRAPH



Maximum Candela = 6585.233 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.)