



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L30-835U-L30-835D-XX-DIM-UNV-OW-CS-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-L30-835U-L30-835D-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	4470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	54.7
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	2757	2757	2757
55	1707	1707	1707
65	841	841	841
75	309	309	309
85	83	83	83

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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	1447.854	1447.854	1447.854	1447.854	1447.854	1447.854	1447.854	1447.854	1447.854
5	1412.640	1412.640	1412.640	1412.640	1412.640	1412.640	1412.640	1412.640	1412.640
10	1355.755	1355.755	1355.755	1355.755	1355.755	1355.755	1355.755	1355.755	1355.755
15	1290.743	1290.743	1290.743	1290.743	1290.743	1290.743	1290.743	1290.743	1290.743
20	1234.942	1234.942	1234.942	1234.942	1234.942	1234.942	1234.942	1234.942	1234.942
25	1132.821	1132.821	1132.821	1132.821	1132.821	1132.821	1132.821	1132.821	1132.821
30	886.861	886.861	886.861	886.861	886.861	886.861	886.861	886.861	886.861
35	533.905	533.905	533.905	533.905	533.905	533.905	533.905	533.905	533.905
40	372.324	372.324	372.324	372.324	372.324	372.324	372.324	372.324	372.324
45	313.137	313.137	313.137	313.137	313.137	313.137	313.137	313.137	313.137
50	265.598	265.598	265.598	265.598	265.598	265.598	265.598	265.598	265.598
55	211.829	211.829	211.829	211.829	211.829	211.829	211.829	211.829	211.829
60	157.653	157.653	157.653	157.653	157.653	157.653	157.653	157.653	157.653
65	110.112	110.112	110.112	110.112	110.112	110.112	110.112	110.112	110.112
70	70.294	70.294	70.294	70.294	70.294	70.294	70.294	70.294	70.294
75	41.309	41.309	41.309	41.309	41.309	41.309	41.309	41.309	41.309
80	24.515	24.515	24.515	24.515	24.515	24.515	24.515	24.515	24.515
85	10.970	10.970	10.970	10.970	10.970	10.970	10.970	10.970	10.970
90	6.267	6.267	6.267	6.267	6.267	6.267	6.267	6.267	6.267
95	5.576	5.576	5.576	5.576	5.576	5.576	5.576	5.576	5.576
100	6.746	6.746	6.746	6.746	6.746	6.746	6.746	6.746	6.746
105	8.346	8.346	8.346	8.346	8.346	8.346	8.346	8.346	8.346
110	10.528	10.528	10.528	10.528	10.528	10.528	10.528	10.528	10.528
115	13.805	13.805	13.805	13.805	13.805	13.805	13.805	13.805	13.805
120	19.107	19.107	19.107	19.107	19.107	19.107	19.107	19.107	19.107
125	28.933	28.933	28.933	28.933	28.933	28.933	28.933	28.933	28.933
130	45.974	45.974	45.974	45.974	45.974	45.974	45.974	45.974	45.974
135	73.230	73.230	73.230	73.230	73.230	73.230	73.230	73.230	73.230
140	291.710	291.710	291.710	291.710	291.710	291.710	291.710	291.710	291.710
145	1036.839	1036.839	1036.839	1036.839	1036.839	1036.839	1036.839	1036.839	1036.839
150	1835.037	1835.037	1835.037	1835.037	1835.037	1835.037	1835.037	1835.037	1835.037
155	2176.230	2176.230	2176.230	2176.230	2176.230	2176.230	2176.230	2176.230	2176.230
160	2132.168	2132.168	2132.168	2132.168	2132.168	2132.168	2132.168	2132.168	2132.168
165	2017.917	2017.917	2017.917	2017.917	2017.917	2017.917	2017.917	2017.917	2017.917
170	1933.691	1933.691	1933.691	1933.691	1933.691	1933.691	1933.691	1933.691	1933.691
175	1764.849	1764.849	1764.849	1764.849	1764.849	1764.849	1764.849	1764.849	1764.849
180	1636.631	1636.631	1636.631	1636.631	1636.631	1636.631	1636.631	1636.631	1636.631

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CRDI-TL-L30-835U-L30-835D-XX-DIM-UNV-OW-CS-RW-CS-CM_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	498.37	N.A.	11.10
0-30	1002.3	N.A.	22.40
0-40	1362.71	N.A.	30.50
0-60	1795.79	N.A.	40.20
0-80	1953.35	N.A.	43.70
0-90	1967.71	N.A.	44.00
10-90	1834.48	N.A.	41.00
20-40	864.34	N.A.	19.30
20-50	1108.2	N.A.	24.80
40-70	543.85	N.A.	12.20
60-80	157.56	N.A.	3.50
70-80	46.78	N.A.	1.00
80-90	14.36	N.A.	0.30
90-110	15.56	N.A.	0.30
90-120	29.72	N.A.	0.70
90-130	57.12	N.A.	1.30
90-150	793.34	N.A.	17.70
90-180	2502.24	N.A.	56.00
110-180	2486.68	N.A.	55.60
0-180	4469.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.23
10-20	365.14
20-30	503.93
30-40	360.42
40-50	243.86
50-60	189.21
60-70	110.77
70-80	46.78
80-90	14.36
90-100	6.59
100-110	8.97
110-120	14.16
120-130	27.39
130-140	91.66
140-150	644.56
150-160	959.50
160-170	576.43
170-180	172.97

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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	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	98	94	90	87	89	86	83	81	72	70	68	59	57	56	46	46	45	39
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	42	41	40	35
3	83	74	68	63	76	69	63	58	58	54	50	48	45	43	39	37	35	31
4	76	67	60	54	70	62	56	51	52	48	44	44	40	38	36	33	32	28
5	71	60	53	47	65	56	49	45	48	43	39	40	36	34	33	30	29	25
6	66	55	47	42	60	51	44	40	44	39	35	37	33	30	30	28	26	23
7	61	50	43	37	56	46	40	35	40	35	31	34	30	28	28	26	24	21
8	57	46	39	34	52	43	36	32	37	32	28	31	28	25	26	24	22	19
9	53	42	35	30	49	39	33	29	34	29	26	29	26	23	25	22	20	18
10	50	39	32	28	46	36	30	26	32	27	24	27	24	21	23	20	19	17

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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	6.4	7.1	7.4	8.1	9.5	6.4	7.1	7.4	8.1	9.5
	3H	7.0	7.7	8.1	8.7	10.1	7.0	7.7	8.1	8.7	10.1
	4H	7.1	7.7	8.2	8.8	10.2	7.1	7.7	8.2	8.8	10.2
	6H	7.1	7.7	8.2	8.7	10.1	7.1	7.7	8.2	8.7	10.1
	8H	7.1	7.6	8.2	8.7	10.1	7.1	7.6	8.2	8.7	10.1
	12H	7.1	7.6	8.1	8.6	10.0	7.1	7.6	8.1	8.6	10.0

UGR Viewed Endwise

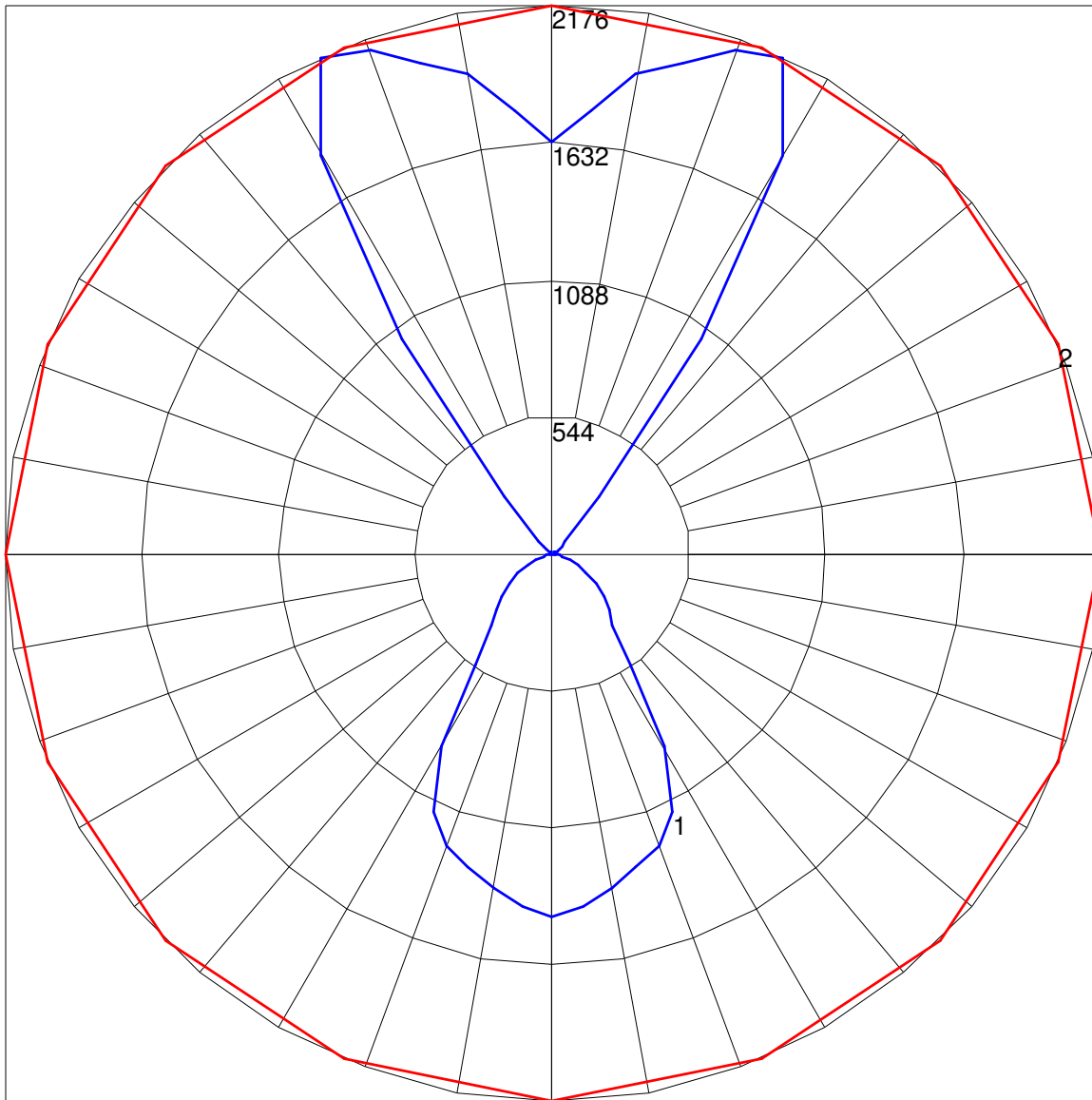
4H	2H	6.5	7.1	7.6	8.1	9.5	6.5	7.1	7.6	8.1	9.5
	3H	7.2	7.7	8.3	8.8	10.2	7.2	7.7	8.3	8.8	10.2
	4H	7.4	7.8	8.4	8.9	10.3	7.4	7.8	8.4	8.9	10.3
	6H	7.4	7.8	8.5	8.9	10.3	7.4	7.8	8.5	8.9	10.3
	8H	7.4	7.8	8.5	8.9	10.3	7.4	7.8	8.5	8.9	10.3
	12H	7.4	7.7	8.5	8.8	10.2	7.4	7.7	8.5	8.8	10.2
8H	4H	7.3	7.7	8.4	8.8	10.2	7.3	7.7	8.4	8.8	10.2
	6H	7.4	7.7	8.5	8.8	10.3	7.4	7.7	8.5	8.8	10.3
	8H	7.4	7.7	8.5	8.8	10.2	7.4	7.7	8.5	8.8	10.2
	12H	7.4	7.6	8.5	8.7	10.2	7.4	7.6	8.5	8.7	10.2
12H	4H	7.3	7.6	8.4	8.7	10.1	7.3	7.6	8.4	8.7	10.1
	6H	7.4	7.6	8.5	8.7	10.2	7.4	7.6	8.5	8.7	10.2
	8H	7.4	7.6	8.5	8.7	10.2	7.4	7.6	8.5	8.7	10.2

Maximum UGR = 10.3

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POLAR GRAPH



Maximum Candela = 2176.23 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.)