

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20685.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06/19/2025

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 8" ROUND, DIRECT INDIRECT LED CYLINDER

[MORE] COMPACT HOUSING WITH REMOTE DRIVER ENCLOSURE

[LUMCAT] 8CRDI-TL-20-L20-835U-L60-835D-RDB-xxx-DIM1-UNV-OW-LW-CS-AD-CMXX

[LAMPCAT] BL VERO COB LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Recessed

[_CONVERT] Photometric web converted from original test data

[_CONVERT] Luminaire test position and photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5631
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	73.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.37 ft (Diameter)
Luminous Width (90-270)	0.37 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	102509	102509	102509
55	85343	85343	85343
65	64836	64836	64836
75	47019	47019	47019
85	30641	30641	30641

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674
65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669
85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467
140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

Vert. Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674

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CANDELA TABULATION - (Cont.)

65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669
85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467
140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674
65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669
85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467

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CANDELA TABULATION - (Cont.)

140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

Vert. Angles

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674
65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669
85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467
140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

Vert. Angles

Horizontal Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES

CANDELA TABULATION - (Cont.)

10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674
65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669
85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467
140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

Vert. Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674
65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES

CANDELA TABULATION - (Cont.)

85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467
140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

Vert.
Angles

Horizontal Angles

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405	1054.405
40	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920	826.920
45	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277	705.277
50	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165	593.165
55	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288	476.288
60	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674	363.674
65	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611	266.611
70	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794	183.794
75	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407	118.407
80	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669	67.669
85	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984	25.984
90	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405	1.405
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
115	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
120	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030	4.030
125	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867	8.867
130	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540	18.540
135	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467	35.467
140	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486	64.486
145	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463	247.463
150	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341	1798.341

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES

CANDELA TABULATION - (Cont.)

160	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000	1458.000

Vert. Horizontal Angles

	<u>350</u>	<u>355</u>	<u>360</u>
0	2491.295	2491.295	2491.295
5	2451.918	2451.918	2451.918
10	2420.817	2420.817	2420.817
15	2393.479	2393.479	2393.479
20	2314.223	2314.223	2314.223
25	2063.915	2063.915	2063.915
30	1580.102	1580.102	1580.102
35	1054.405	1054.405	1054.405
40	826.920	826.920	826.920
45	705.277	705.277	705.277
50	593.165	593.165	593.165
55	476.288	476.288	476.288
60	363.674	363.674	363.674
65	266.611	266.611	266.611
70	183.794	183.794	183.794
75	118.407	118.407	118.407
80	67.669	67.669	67.669
85	25.984	25.984	25.984
90	1.405	1.405	1.405
95	0.000	0.000	0.000
100	0.000	0.000	0.000
105	0.000	0.000	0.000
110	0.806	0.806	0.806
115	0.806	0.806	0.806
120	4.030	4.030	4.030
125	8.867	8.867	8.867
130	18.540	18.540	18.540
135	35.467	35.467	35.467
140	64.486	64.486	64.486
145	247.463	247.463	247.463
150	1409.009	1409.009	1409.009
155	1798.341	1798.341	1798.341
160	1650.024	1650.024	1650.024
165	1579.896	1579.896	1579.896
170	1547.653	1547.653	1547.653
175	1502.513	1502.513	1502.513
180	1458.000	1458.000	1458.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	906.97	N.A.	16.10
0-30	1827.31	N.A.	32.40
0-40	2529.14	N.A.	44.90
0-60	3501.9	N.A.	62.20
0-80	3897.95	N.A.	69.20
0-90	3930.89	N.A.	69.80
10-90	3697.49	N.A.	65.70
20-40	1622.17	N.A.	28.80
20-50	2168.24	N.A.	38.50
40-70	1240.03	N.A.	22.00
60-80	396.05	N.A.	7.00
70-80	128.78	N.A.	2.30
80-90	32.95	N.A.	0.60
90-110	0.60	N.A.	0.00
90-120	2.18	N.A.	0.00
90-130	11.12	N.A.	0.20
90-150	336.51	N.A.	6.00
90-180	1700.3	N.A.	30.20
110-180	1699.7	N.A.	30.20
0-180	5631.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.41
10-20	673.56
20-30	920.34
30-40	701.83
40-50	546.07
50-60	426.69
60-70	267.27
70-80	128.78
80-90	32.95
90-100	0.38
100-110	0.21
110-120	1.58
120-130	8.94
130-140	29.42
140-150	295.97
150-160	767.56
160-170	451.71
170-180	144.51

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	67	66	62
2	96	89	83	79	90	85	80	75	76	72	69	69	66	63	62	59	58	54
3	88	80	73	68	84	76	70	65	69	64	60	62	59	55	56	53	51	48
4	82	72	64	59	77	69	62	57	62	57	53	57	53	49	51	48	45	43
5	76	65	58	52	72	62	55	50	57	51	47	52	47	44	47	44	41	38
6	71	59	52	46	67	57	50	45	52	46	42	48	43	40	44	40	37	35
7	66	54	47	42	63	52	45	40	48	42	38	44	39	36	41	37	34	32
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	38	34	31	29
9	58	46	39	34	55	45	38	34	41	36	32	38	34	30	35	31	29	27
10	55	43	36	32	52	41	35	31	39	33	29	36	31	28	33	29	26	25

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.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	23.0	24.0	23.8	24.8	25.8	23.0	24.0	23.8	24.8	25.8
	3H	24.2	25.1	25.0	25.9	26.9	24.2	25.1	25.0	25.9	26.9
	4H	24.6	25.4	25.4	26.2	27.2	24.6	25.4	25.4	26.2	27.2
	6H	24.9	25.6	25.7	26.4	27.4	24.9	25.6	25.7	26.4	27.4
	8H	24.9	25.6	25.8	26.5	27.5	24.9	25.6	25.8	26.5	27.5
	12H	25.0	25.6	25.8	26.4	27.5	25.0	25.6	25.8	26.4	27.5

UGR Viewed Endwise

4H	2H	23.4	24.2	24.2	25.0	26.0	23.4	24.2	24.2	25.0	26.0
	3H	24.8	25.4	25.6	26.3	27.3	24.8	25.4	25.6	26.3	27.3
	4H	25.3	25.9	26.1	26.7	27.8	25.3	25.9	26.1	26.7	27.8
	6H	25.6	26.1	26.5	27.0	28.1	25.6	26.1	26.5	27.0	28.1
	8H	25.7	26.2	26.6	27.1	28.1	25.7	26.2	26.6	27.1	28.1
	12H	25.8	26.2	26.7	27.1	28.2	25.8	26.2	26.7	27.1	28.2

8H	4H	25.4	25.9	26.3	26.7	27.8	25.4	25.9	26.3	26.7	27.8
	6H	25.9	26.3	26.7	27.2	28.2	25.9	26.3	26.7	27.2	28.2
	8H	26.0	26.4	26.9	27.3	28.4	26.0	26.4	26.9	27.3	28.4
	12H	26.1	26.4	27.0	27.3	28.5	26.1	26.4	27.0	27.3	28.5

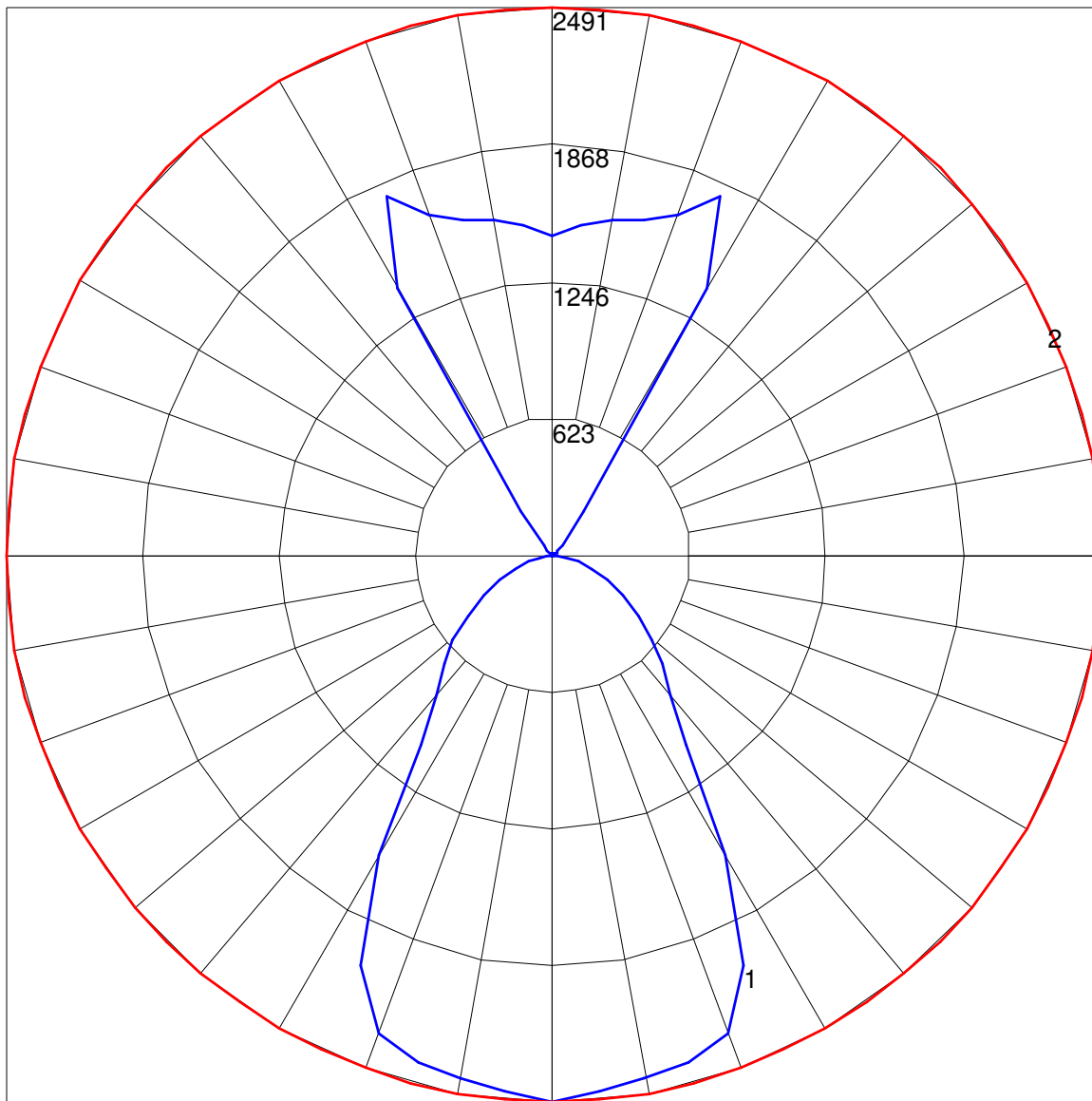
12H	4H	25.4	25.8	26.3	26.7	27.8	25.4	25.8	26.3	26.7	27.8
	6H	25.9	26.2	26.8	27.1	28.2	25.9	26.2	26.8	27.1	28.2
	8H	26.1	26.4	27.0	27.3	28.4	26.1	26.4	27.0	27.3	28.4

Maximum UGR = 28.5

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L60-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES

POLAR GRAPH



Maximum Candela = 2491.295 Located At Horizontal Angle = 0, Vertical Angle = 0

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

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)