

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-20-L20-835U-L70-835D-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] 06/24/2025

[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-L70-835D-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	6259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	87.6
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	118880	118880	118880
55	98972	98972	98972
65	75191	75191	75191
75	54528	54528	54528
85	35534	35534	35534

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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	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753
65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475
85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753

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CANDELA TABULATION - (Cont.)

65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475
85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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

	100	105	110	115	120	125	130	135	140	145
0	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753
65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475
85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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. Horizontal Angles
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	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753
65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475
85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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
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	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-20-L20-835U-L70-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_IES

CANDELA TABULATION - (Cont.)

10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753
65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475
85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753
65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-20-L20-835U-L70-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_IES

CANDELA TABULATION - (Cont.)

85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794	1222.794
40	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980	958.980
45	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910	817.910
50	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894	687.894
55	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351	552.351
60	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753	421.753
65	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189	309.189
70	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145	213.145
75	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317	137.317
80	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475	78.475
85	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134	30.134
90	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629	1.629
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-20-L20-835U-L70-835D-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	2889.155	2889.155	2889.155
5	2843.489	2843.489	2843.489
10	2807.422	2807.422	2807.422
15	2775.718	2775.718	2775.718
20	2683.805	2683.805	2683.805
25	2393.522	2393.522	2393.522
30	1832.445	1832.445	1832.445
35	1222.794	1222.794	1222.794
40	958.980	958.980	958.980
45	817.910	817.910	817.910
50	687.894	687.894	687.894
55	552.351	552.351	552.351
60	421.753	421.753	421.753
65	309.189	309.189	309.189
70	213.145	213.145	213.145
75	137.317	137.317	137.317
80	78.475	78.475	78.475
85	30.134	30.134	30.134
90	1.629	1.629	1.629
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-20-L20-835U-L70-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1051.81	N.A.	16.80
0-30	2119.13	N.A.	33.90
0-40	2933.05	N.A.	46.90
0-60	4061.15	N.A.	64.90
0-80	4520.45	N.A.	72.20
0-90	4558.66	N.A.	72.80
10-90	4287.98	N.A.	68.50
20-40	1881.24	N.A.	30.10
20-50	2514.51	N.A.	40.20
40-70	1438.06	N.A.	23.00
60-80	459.30	N.A.	7.30
70-80	149.35	N.A.	2.40
80-90	38.21	N.A.	0.60
90-110	0.66	N.A.	0.00
90-120	2.24	N.A.	0.00
90-130	11.18	N.A.	0.20
90-150	336.57	N.A.	5.40
90-180	1700.36	N.A.	27.20
110-180	1699.7	N.A.	27.20
0-180	6259.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.68
10-20	781.13
20-30	1067.32
30-40	813.92
40-50	633.28
50-60	494.83
60-70	309.95
70-80	149.34
80-90	38.21
90-100	0.45
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-20-L20-835U-L70-835D-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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	104	100	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	79	91	85	81	76	78	74	71	71	68	65	64	62	60	56
3	89	80	74	68	85	77	71	66	70	65	61	64	60	57	58	55	53	50
4	83	73	65	60	78	69	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	48	43	49	44	41	45	41	38	36
7	67	55	48	42	63	53	46	41	49	43	39	45	41	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	36	42	37	34	39	35	32	30
9	59	47	40	35	56	45	39	34	42	37	33	39	35	31	37	33	30	28
10	55	44	37	32	53	42	36	31	39	34	30	37	32	29	34	30	27	26

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-20-L20-835U-L70-835D-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	23.8	24.8	24.6	25.6	26.5	23.8	24.8	24.6	25.6	26.5
	3H	25.0	25.9	25.8	26.7	27.6	25.0	25.9	25.8	26.7	27.6
	4H	25.4	26.2	26.2	27.0	28.0	25.4	26.2	26.2	27.0	28.0
	6H	25.6	26.4	26.4	27.2	28.2	25.6	26.4	26.4	27.2	28.2
	8H	25.7	26.4	26.5	27.2	28.2	25.7	26.4	26.5	27.2	28.2
	12H	25.7	26.4	26.5	27.2	28.2	25.7	26.4	26.5	27.2	28.2

UGR Viewed Endwise

4H	2H	24.2	25.0	25.0	25.8	26.8	24.2	25.0	25.0	25.8	26.8
	3H	25.6	26.3	26.4	27.1	28.0	25.6	26.3	26.4	27.1	28.0
	4H	26.1	26.7	26.9	27.5	28.5	26.1	26.7	26.9	27.5	28.5
	6H	26.4	27.0	27.2	27.8	28.8	26.4	27.0	27.2	27.8	28.8
	8H	26.5	27.0	27.3	27.9	28.9	26.5	27.0	27.3	27.9	28.9
	12H	26.6	27.0	27.4	27.9	28.9	26.6	27.0	27.4	27.9	28.9

8H	4H	26.2	26.7	27.0	27.5	28.5	26.2	26.7	27.0	27.5	28.5
	6H	26.7	27.1	27.5	27.9	29.0	26.7	27.1	27.5	27.9	29.0
	8H	26.8	27.2	27.7	28.1	29.1	26.8	27.2	27.7	28.1	29.1
	12H	26.9	27.2	27.8	28.1	29.2	26.9	27.2	27.8	28.1	29.2

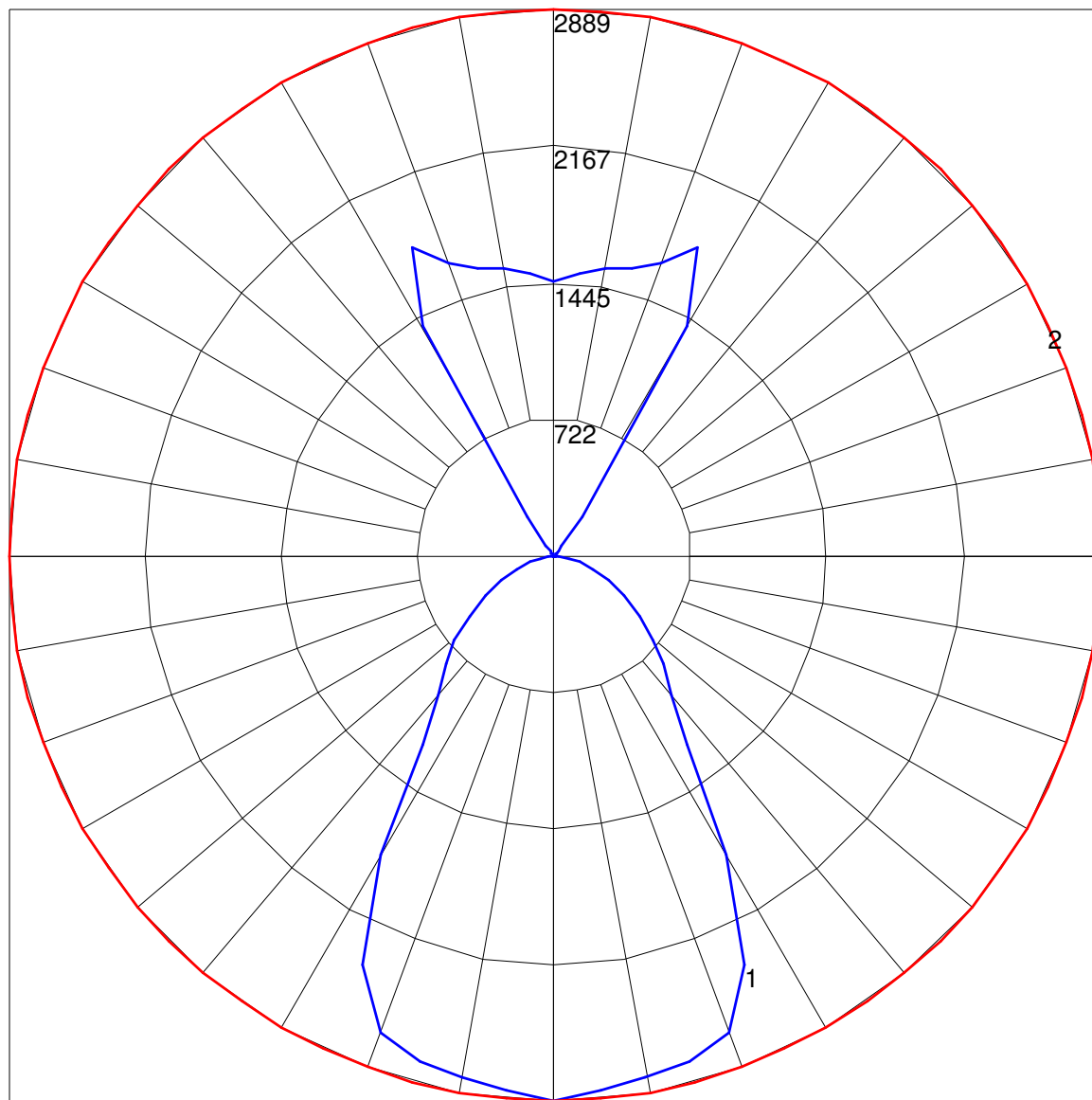
12H	4H	26.2	26.6	27.0	27.5	28.5	26.2	26.6	27.0	27.5	28.5
	6H	26.7	27.0	27.5	27.9	28.9	26.7	27.0	27.5	27.9	28.9
	8H	26.9	27.2	27.7	28.0	29.1	26.9	27.2	27.7	28.0	29.1

Maximum UGR = 29.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-20-L20-835U-L70-835D-RDB-XXX-DIM1-UNV-OW-LW-CS-AD-CMXX_.IES

POLAR GRAPH



Maximum Candela = 2889.155 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.)