



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-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] 10/02/2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4" RND RECESSED LED DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 4DR-TL-L20-835-DIM-UNV-OW-OF-CS

[LAMPCAT] V13 BXRE-35E2000

[_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	11163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	97.4
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
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	18820	18820	18820
55	6557	6557	6557
65	1369	1369	1369
75	0	0	0
85	0	0	0

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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	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704
65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	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	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822
140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

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	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704

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CANDELA TABULATION - (Cont.)

65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	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	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822
140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704
65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	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	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822

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CANDELA TABULATION - (Cont.)

140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

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	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704
65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	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	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822
140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

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	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-CMXX.IES

CANDELA TABULATION - (Cont.)

10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704
65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	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	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822
140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

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	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704
65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-CMXX.IES

CANDELA TABULATION - (Cont.)

85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822
140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

**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	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191	1700.191
40	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635	233.635
45	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485	129.485
50	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002	76.002
55	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594	36.594
60	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704	19.704
65	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630	5.630
70	0.000	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	0.000
80	0.000	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	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
115	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497	2.497
120	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479	12.479
125	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454	27.454
130	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408	57.408
135	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822	109.822
140	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675	199.675
145	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257	766.257
150	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463	5568.463

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-CMXX.IES

CANDELA TABULATION - (Cont.)

160	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750	4515.750

Vert. Horizontal Angles

	<u>350</u>	<u>355</u>	<u>360</u>
0	4706.488	4706.488	4706.488
5	4444.704	4444.704	4444.704
10	4892.270	4892.270	4892.270
15	4883.826	4883.826	4883.826
20	5100.572	5100.572	5100.572
25	5579.102	5579.102	5579.102
30	5480.581	5480.581	5480.581
35	1700.191	1700.191	1700.191
40	233.635	233.635	233.635
45	129.485	129.485	129.485
50	76.002	76.002	76.002
55	36.594	36.594	36.594
60	19.704	19.704	19.704
65	5.630	5.630	5.630
70	0.000	0.000	0.000
75	0.000	0.000	0.000
80	0.000	0.000	0.000
85	0.000	0.000	0.000
90	0.000	0.000	0.000
95	0.000	0.000	0.000
100	0.000	0.000	0.000
105	0.000	0.000	0.000
110	2.497	2.497	2.497
115	2.497	2.497	2.497
120	12.479	12.479	12.479
125	27.454	27.454	27.454
130	57.408	57.408	57.408
135	109.822	109.822	109.822
140	199.675	199.675	199.675
145	766.257	766.257	766.257
150	4362.921	4362.921	4362.921
155	5568.463	5568.463	5568.463
160	5109.208	5109.208	5109.208
165	4892.062	4892.062	4892.062
170	4792.224	4792.224	4792.224
175	4652.451	4652.451	4652.451
180	4515.750	4515.750	4515.750

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-CMXX.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1846.18	N.A.	16.50
0-30	4365.89	N.A.	39.10
0-40	5745.96	N.A.	51.50
0-60	5892.21	N.A.	52.80
0-80	5899.79	N.A.	52.80
0-90	5899.79	N.A.	52.80
10-90	5456.38	N.A.	48.90
20-40	3899.78	N.A.	34.90
20-50	4008.53	N.A.	35.90
40-70	153.84	N.A.	1.40
60-80	7.58	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.65	N.A.	0.00
90-120	5.56	N.A.	0.00
90-130	33.24	N.A.	0.30
90-150	1040.8	N.A.	9.30
90-180	5263.7	N.A.	47.20
110-180	5263.05	N.A.	47.10
0-180	11163.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	443.41
10-20	1402.77
20-30	2519.71
30-40	1380.06
40-50	108.76
50-60	37.50
60-70	7.58
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.65
110-120	4.91
120-130	27.68
130-140	91.10
140-150	916.47
150-160	2376.72
160-170	1398.71
170-180	447.47

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	101	98	95	92	94	91	88	86	78	76	75	66	65	64	56	55	54	49
2	94	88	84	80	88	83	79	75	72	69	66	62	60	58	53	51	50	46
3	88	81	75	70	82	76	71	67	66	63	60	57	55	53	49	48	46	43
4	82	74	67	62	77	69	64	60	61	57	54	54	51	48	46	45	43	40
5	77	68	61	56	72	64	58	54	57	52	49	50	47	44	44	42	40	37
6	72	62	56	51	67	59	53	49	53	48	45	47	43	41	41	39	37	34
7	68	57	51	46	63	54	49	44	49	44	41	44	40	38	39	36	34	32
8	64	53	47	42	60	51	45	41	46	41	38	41	37	35	36	34	32	30
9	60	49	43	39	56	47	41	37	43	38	35	38	35	32	34	32	30	28
10	56	46	40	36	53	44	38	35	40	35	32	36	33	30	32	30	28	26

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-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	1.5	2.2	2.5	3.1	4.4	1.5	2.2	2.5	3.1	4.4
	3H	1.3	1.9	2.3	2.9	4.2	1.3	1.9	2.3	2.9	4.2
	4H	1.2	1.8	2.2	2.8	4.0	1.2	1.8	2.2	2.8	4.0
	6H	1.1	1.6	2.1	2.6	3.9	1.1	1.6	2.1	2.6	3.9
	8H	1.1	1.5	2.1	2.5	3.8	1.1	1.5	2.1	2.5	3.8
	12H	1.0	1.4	2.0	2.4	3.7	1.0	1.4	2.0	2.4	3.7

UGR Viewed Endwise

4H	2H	1.3	1.8	2.3	2.8	4.1	1.3	1.8	2.3	2.8	4.1
	3H	1.1	1.6	2.1	2.6	3.8	1.1	1.6	2.1	2.6	3.8
	4H	1.0	1.4	2.0	2.4	3.7	1.0	1.4	2.0	2.4	3.7
	6H	0.9	1.2	1.9	2.2	3.6	0.9	1.2	1.9	2.2	3.6
	8H	0.8	1.1	1.8	2.1	3.5	0.8	1.1	1.8	2.1	3.5
	12H	0.7	1.0	1.8	2.0	3.4	0.7	1.0	1.8	2.0	3.4

8H	4H	0.8	1.1	1.8	2.1	3.5	0.8	1.1	1.8	2.1	3.5
	6H	0.7	0.9	1.7	2.0	3.3	0.7	0.9	1.7	2.0	3.3
	8H	0.6	0.9	1.7	1.9	3.2	0.6	0.9	1.7	1.9	3.2
	12H	0.6	0.8	1.6	1.8	3.2	0.6	0.8	1.6	1.8	3.2

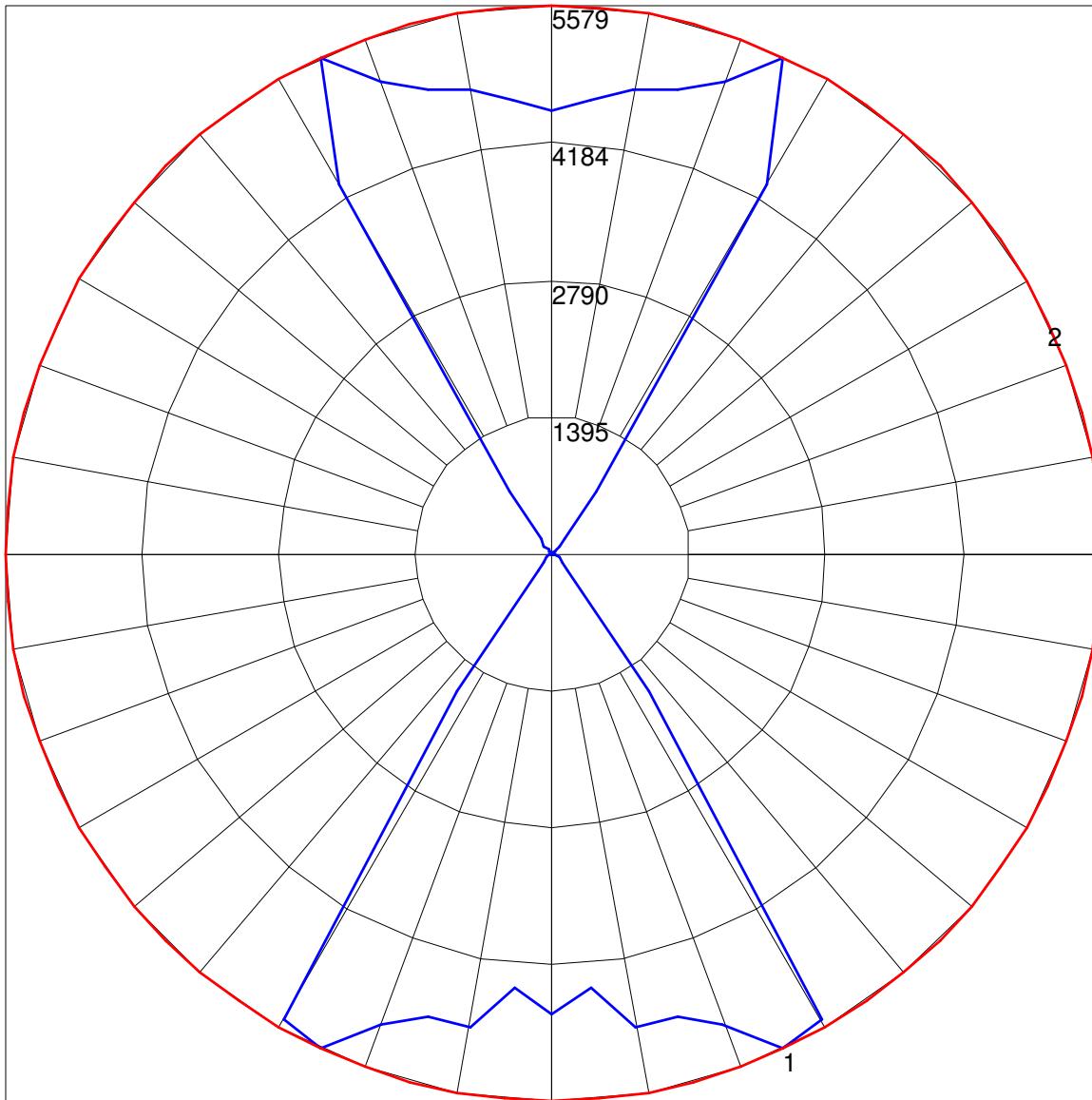
12H	4H	0.7	1.0	1.8	2.0	3.4	0.7	1.0	1.8	2.0	3.4
	6H	0.6	0.8	1.7	1.9	3.2	0.6	0.8	1.7	1.9	3.2
	8H	0.6	0.8	1.6	1.8	3.2	0.6	0.8	1.6	1.8	3.2

Maximum UGR = 4.4

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-26-L60-830U-L60-830D-XXX-DIM LINE-OW-OW-CS-CMXX.IES

POLAR GRAPH



Maximum Candela = 5579.102 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.)