



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-LW-CSU-ON-CSD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 AND #12326812.05

[TESTLAB]

[ISSUE DATE] 16-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-L20-835U-L20-835D-xxx-DIM1-UNV-LW-CSU-ON-CSD-WM

[MORE]

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, clear uplight glass lens enclosure, no downlight enclosure

[LAMP] Two white LEDs (one up/one down)

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	37.9907
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	114	114	114
55	32	32	32
65	8	8	8
75	0	0	0
85	0	0	0

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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>	<u>202.5</u>
0.0	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000
2.5	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000
5.0	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000
7.5	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000
10.0	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000
12.5	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000
15.0	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000
17.5	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000
20.0	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000
22.5	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000
25.0	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000
27.5	823.000	823.000	823.000	823.000	823.000	823.000	823.000	823.000	823.000	823.000
30.0	755.000	755.000	755.000	755.000	755.000	755.000	755.000	755.000	755.000	755.000
32.5	542.000	542.000	542.000	542.000	542.000	542.000	542.000	542.000	542.000	542.000
35.0	242.000	242.000	242.000	242.000	242.000	242.000	242.000	242.000	242.000	242.000
37.5	38.000	38.000	38.000	38.000	38.000	38.000	38.000	38.000	38.000	38.000
40.0	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000
42.5	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000
45.0	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000
47.5	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000
50.0	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
52.5	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
55.0	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
57.5	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
60.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
62.5	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
65.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
67.5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
70.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
72.5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	3.704	3.704	3.704	3.704	3.704	3.704	3.704	3.704	3.704	3.704
92.5	5.704	5.704	5.704	5.704	5.704	5.704	5.704	5.704	5.704	5.704
95.0	9.967	9.967	9.967	9.967	9.967	9.967	9.967	9.967	9.967	9.967
97.5	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.905
100.0	25.166	25.166	25.166	25.166	25.166	25.166	25.166	25.166	25.166	25.166
102.5	33.839	33.839	33.839	33.839	33.839	33.839	33.839	33.839	33.839	33.839
105.0	43.189	43.189	43.189	43.189	43.189	43.189	43.189	43.189	43.189	43.189
107.5	53.743	53.743	53.743	53.743	53.743	53.743	53.743	53.743	53.743	53.743
110.0	66.032	66.032	66.032	66.032	66.032	66.032	66.032	66.032	66.032	66.032
112.5	79.850	79.850	79.850	79.850	79.850	79.850	79.850	79.850	79.850	79.850
115.0	95.491	95.491	95.491	95.491	95.491	95.491	95.491	95.491	95.491	95.491
117.5	113.014	113.014	113.014	113.014	113.014	113.014	113.014	113.014	113.014	113.014
120.0	132.623	132.623	132.623	132.623	132.623	132.623	132.623	132.623	132.623	132.623
122.5	154.438	154.438	154.438	154.438	154.438	154.438	154.438	154.438	154.438	154.438
125.0	178.546	178.546	178.546	178.546	178.546	178.546	178.546	178.546	178.546	178.546
127.5	204.271	204.271	204.271	204.271	204.271	204.271	204.271	204.271	204.271	204.271
130.0	231.025	231.025	231.025	231.025	231.025	231.025	231.025	231.025	231.025	231.025
132.5	257.926	257.926	257.926	257.926	257.926	257.926	257.926	257.926	257.926	257.926

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CANDELA TABULATION - (Cont.)

135.0	284.798	284.798	284.798	284.798	284.798	284.798	284.798	284.798	284.798	284.798
137.5	312.816	312.816	312.816	312.816	312.816	312.816	312.816	312.816	312.816	312.816
140.0	345.156	345.156	345.156	345.156	345.156	345.156	345.156	345.156	345.156	345.156
142.5	386.610	386.610	386.610	386.610	386.610	386.610	386.610	386.610	386.610	386.610
145.0	442.470	442.470	442.470	442.470	442.470	442.470	442.470	442.470	442.470	442.470
147.5	514.794	514.794	514.794	514.794	514.794	514.794	514.794	514.794	514.794	514.794
150.0	604.464	604.464	604.464	604.464	604.464	604.464	604.464	604.464	604.464	604.464
152.5	697.956	697.956	697.956	697.956	697.956	697.956	697.956	697.956	697.956	697.956
155.0	792.918	792.918	792.918	792.918	792.918	792.918	792.918	792.918	792.918	792.918
157.5	877.590	877.590	877.590	877.590	877.590	877.590	877.590	877.590	877.590	877.590
160.0	943.740	943.740	943.740	943.740	943.740	943.740	943.740	943.740	943.740	943.740
162.5	988.134	988.134	988.134	988.134	988.134	988.134	988.134	988.134	988.134	988.134
165.0	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418
167.5	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942
170.0	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586
172.5	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172
175.0	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170
177.5	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522
180.0	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000	22000.000
2.5	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000	17330.000
5.0	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000	9830.000
7.5	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000	5531.000
10.0	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000	3526.000
12.5	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000	2528.000
15.0	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000	2032.000
17.5	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000	1752.000
20.0	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000	1558.000
22.5	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000	1319.000
25.0	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000	1021.000
27.5	823.000	823.000	823.000	823.000	823.000	823.000	823.000
30.0	755.000	755.000	755.000	755.000	755.000	755.000	755.000
32.5	542.000	542.000	542.000	542.000	542.000	542.000	542.000
35.0	242.000	242.000	242.000	242.000	242.000	242.000	242.000
37.5	38.000	38.000	38.000	38.000	38.000	38.000	38.000
40.0	21.000	21.000	21.000	21.000	21.000	21.000	21.000
42.5	17.000	17.000	17.000	17.000	17.000	17.000	17.000
45.0	13.000	13.000	13.000	13.000	13.000	13.000	13.000
47.5	10.000	10.000	10.000	10.000	10.000	10.000	10.000
50.0	8.000	8.000	8.000	8.000	8.000	8.000	8.000
52.5	5.000	5.000	5.000	5.000	5.000	5.000	5.000
55.0	4.000	4.000	4.000	4.000	4.000	4.000	4.000
57.5	3.000	3.000	3.000	3.000	3.000	3.000	3.000
60.0	2.000	2.000	2.000	2.000	2.000	2.000	2.000
62.5	2.000	2.000	2.000	2.000	2.000	2.000	2.000
65.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000
67.5	1.000	1.000	1.000	1.000	1.000	1.000	1.000
70.0	1.000	1.000	1.000	1.000	1.000	1.000	1.000
72.5	1.000	1.000	1.000	1.000	1.000	1.000	1.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	3.704	3.704	3.704	3.704	3.704	3.704	3.704
92.5	5.704	5.704	5.704	5.704	5.704	5.704	5.704
95.0	9.967	9.967	9.967	9.967	9.967	9.967	9.967
97.5	16.905	16.905	16.905	16.905	16.905	16.905	16.905
100.0	25.166	25.166	25.166	25.166	25.166	25.166	25.166
102.5	33.839	33.839	33.839	33.839	33.839	33.839	33.839
105.0	43.189	43.189	43.189	43.189	43.189	43.189	43.189
107.5	53.743	53.743	53.743	53.743	53.743	53.743	53.743
110.0	66.032	66.032	66.032	66.032	66.032	66.032	66.032
112.5	79.850	79.850	79.850	79.850	79.850	79.850	79.850
115.0	95.491	95.491	95.491	95.491	95.491	95.491	95.491
117.5	113.014	113.014	113.014	113.014	113.014	113.014	113.014
120.0	132.623	132.623	132.623	132.623	132.623	132.623	132.623
122.5	154.438	154.438	154.438	154.438	154.438	154.438	154.438
125.0	178.546	178.546	178.546	178.546	178.546	178.546	178.546
127.5	204.271	204.271	204.271	204.271	204.271	204.271	204.271
130.0	231.025	231.025	231.025	231.025	231.025	231.025	231.025
132.5	257.926	257.926	257.926	257.926	257.926	257.926	257.926
135.0	284.798	284.798	284.798	284.798	284.798	284.798	284.798
137.5	312.816	312.816	312.816	312.816	312.816	312.816	312.816
140.0	345.156	345.156	345.156	345.156	345.156	345.156	345.156
142.5	386.610	386.610	386.610	386.610	386.610	386.610	386.610
145.0	442.470	442.470	442.470	442.470	442.470	442.470	442.470
147.5	514.794	514.794	514.794	514.794	514.794	514.794	514.794
150.0	604.464	604.464	604.464	604.464	604.464	604.464	604.464
152.5	697.956	697.956	697.956	697.956	697.956	697.956	697.956
155.0	792.918	792.918	792.918	792.918	792.918	792.918	792.918
157.5	877.590	877.590	877.590	877.590	877.590	877.590	877.590
160.0	943.740	943.740	943.740	943.740	943.740	943.740	943.740
162.5	988.134	988.134	988.134	988.134	988.134	988.134	988.134
165.0	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418	1013.418
167.5	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942	1026.942
170.0	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586	1034.586
172.5	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172	1040.172
175.0	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170	1045.170
177.5	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522	1047.522
180.0	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816	1047.816

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Zone	Lumens	%Lamp	%Fixt
0-20	1380.56	N.A.	38.10
0-30	1868.49	N.A.	51.50
0-40	2048.17	N.A.	56.50
0-60	2062.35	N.A.	56.90
0-80	2064.09	N.A.	56.90
0-90	2064.6	N.A.	57.00
10-90	1285.46	N.A.	35.50
20-40	667.61	N.A.	18.40
20-50	678.02	N.A.	18.70
40-70	15.53	N.A.	0.40
60-80	1.75	N.A.	0.00
70-80	0.39	N.A.	0.00
80-90	0.51	N.A.	0.00
90-110	59.28	N.A.	1.60
90-120	155.07	N.A.	4.30
90-130	315.50	N.A.	8.70
90-150	818.19	N.A.	22.60
90-180	1560.03	N.A.	43.00
110-180	1500.74	N.A.	41.40
0-180	3624.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	779.15
10-20	601.42
20-30	487.92
30-40	179.68
40-50	10.41
50-60	3.77
60-70	1.36
70-80	0.39
80-90	0.51
90-100	12.79
100-110	46.49
110-120	95.78
120-130	160.43
130-140	220.23
140-150	282.46
150-160	358.94
160-170	283.48
170-180	99.40

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57
1	103	100	97	95	96	93	91	89	81	80	79	71	70	69	61	60	59	55
2	97	92	88	84	91	87	83	80	76	74	72	67	66	64	58	57	57	53
3	92	85	80	76	86	81	76	73	72	69	66	64	62	60	56	55	54	51
4	87	80	74	70	82	76	71	67	68	65	62	61	59	57	55	53	52	49
5	83	75	69	65	78	71	66	63	65	61	58	58	56	54	53	51	50	47
6	79	70	65	61	75	67	62	59	62	58	55	56	53	51	51	49	48	46
7	75	67	61	57	71	64	59	55	59	55	52	54	51	49	49	48	46	44
8	72	63	58	54	68	61	56	53	56	52	50	52	49	47	48	46	44	43
9	69	60	55	51	66	58	53	50	54	50	48	50	47	45	47	45	43	41
10	66	58	52	49	63	56	51	48	52	48	46	48	46	44	45	43	42	40

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-LW-CSU-ON-CSD-WM_.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	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
4H	2H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
8H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
12H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6

UGR Viewed Endwise

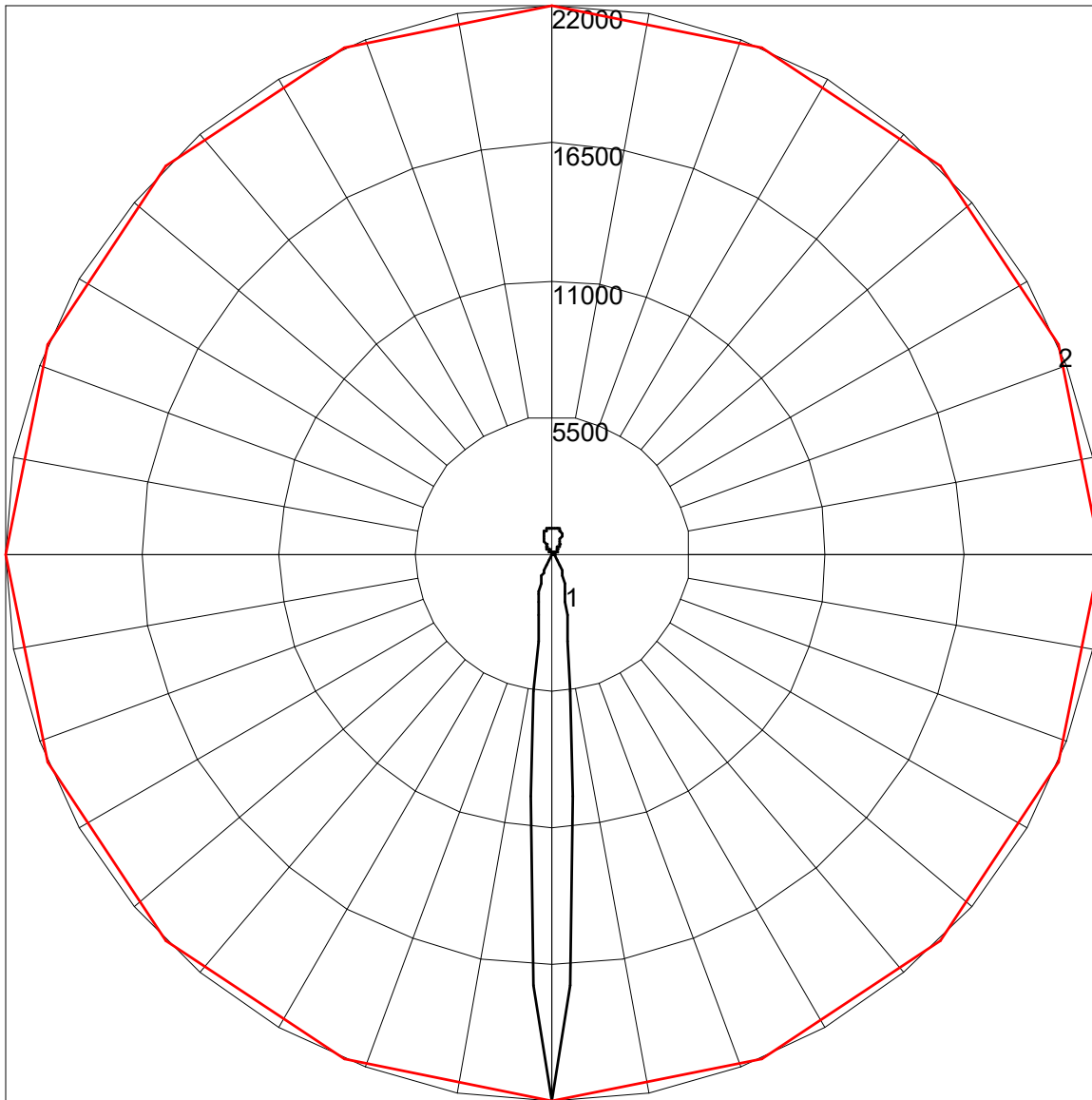
X=2H	Y=2H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
4H	2H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	3H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
8H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	12H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
12H	4H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	6H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	8H	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6

Maximum UGR = 4.6

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-LW-CSU-ON-CSD-WM_.IES

POLAR GRAPH



Maximum Candela = 22000 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)

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