



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-8TWU-L20-8TWD-XXX-DALI-UNV-ON-CSU-LW-WHD-WM 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.05

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 24-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-L20-8TWU-L20-8TWD-xxx-DALI-UNV-ON-CSU-LW-WHD-WM 4000k

[LUMINAIRE] White formed aluminum housing, specular reflector, clear glass cover

[MORE]

[LAMP] Two white LEDs

[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	3959
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	48
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)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	27386	27386	27386
55	22800	22800	22800
65	17321	17321	17321
75	12561	12561	12561
85	8186	8186	8186

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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>
<b>0.0</b>	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938
<b>2.5</b>	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771
<b>5.0</b>	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197
<b>7.5</b>	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773
<b>10.0</b>	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606
<b>12.5</b>	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457
<b>15.0</b>	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901
<b>17.5</b>	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681
<b>20.0</b>	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168
<b>22.5</b>	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646
<b>25.0</b>	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683
<b>27.5</b>	927.430	927.430	927.430	927.430	927.430	927.430	927.430	927.430	927.430	927.430
<b>30.0</b>	792.138	792.138	792.138	792.138	792.138	792.138	792.138	792.138	792.138	792.138
<b>32.5</b>	644.147	644.147	644.147	644.147	644.147	644.147	644.147	644.147	644.147	644.147
<b>35.0</b>	528.595	528.595	528.595	528.595	528.595	528.595	528.595	528.595	528.595	528.595
<b>37.5</b>	458.434	458.434	458.434	458.434	458.434	458.434	458.434	458.434	458.434	458.434
<b>40.0</b>	414.552	414.552	414.552	414.552	414.552	414.552	414.552	414.552	414.552	414.552
<b>42.5</b>	382.112	382.112	382.112	382.112	382.112	382.112	382.112	382.112	382.112	382.112
<b>45.0</b>	353.570	353.570	353.570	353.570	353.570	353.570	353.570	353.570	353.570	353.570
<b>47.5</b>	325.908	325.908	325.908	325.908	325.908	325.908	325.908	325.908	325.908	325.908
<b>50.0</b>	297.366	297.366	297.366	297.366	297.366	297.366	297.366	297.366	297.366	297.366
<b>52.5</b>	268.070	268.070	268.070	268.070	268.070	268.070	268.070	268.070	268.070	268.070
<b>55.0</b>	238.773	238.773	238.773	238.773	238.773	238.773	238.773	238.773	238.773	238.773
<b>57.5</b>	210.105	210.105	210.105	210.105	210.105	210.105	210.105	210.105	210.105	210.105
<b>60.0</b>	182.317	182.317	182.317	182.317	182.317	182.317	182.317	182.317	182.317	182.317
<b>62.5</b>	156.919	156.919	156.919	156.919	156.919	156.919	156.919	156.919	156.919	156.919
<b>65.0</b>	133.658	133.658	133.658	133.658	133.658	133.658	133.658	133.658	133.658	133.658
<b>67.5</b>	112.119	112.119	112.119	112.119	112.119	112.119	112.119	112.119	112.119	112.119
<b>70.0</b>	92.139	92.139	92.139	92.139	92.139	92.139	92.139	92.139	92.139	92.139
<b>72.5</b>	74.587	74.587	74.587	74.587	74.587	74.587	74.587	74.587	74.587	74.587
<b>75.0</b>	59.360	59.360	59.360	59.360	59.360	59.360	59.360	59.360	59.360	59.360
<b>77.5</b>	45.894	45.894	45.894	45.894	45.894	45.894	45.894	45.894	45.894	45.894
<b>80.0</b>	33.924	33.924	33.924	33.924	33.924	33.924	33.924	33.924	33.924	33.924
<b>82.5</b>	23.047	23.047	23.047	23.047	23.047	23.047	23.047	23.047	23.047	23.047
<b>85.0</b>	13.026	13.026	13.026	13.026	13.026	13.026	13.026	13.026	13.026	13.026
<b>87.5</b>	4.539	4.539	4.539	4.539	4.539	4.539	4.539	4.539	4.539	4.539
<b>90.0</b>	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>110.0</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>112.5</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>115.0</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>117.5</b>	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931
<b>120.0</b>	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931	1.931
<b>122.5</b>	2.897	2.897	2.897	2.897	2.897	2.897	2.897	2.897	2.897	2.897
<b>125.0</b>	3.863	3.863	3.863	3.863	3.863	3.863	3.863	3.863	3.863	3.863
<b>127.5</b>	4.829	4.829	4.829	4.829	4.829	4.829	4.829	4.829	4.829	4.829
<b>130.0</b>	7.726	7.726	7.726	7.726	7.726	7.726	7.726	7.726	7.726	7.726
<b>132.5</b>	9.657	9.657	9.657	9.657	9.657	9.657	9.657	9.657	9.657	9.657

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## CANDELA TABULATION - (Cont.)

135.0	12.555	12.555	12.555	12.555	12.555	12.555	12.555	12.555	12.555	12.555
137.5	16.418	16.418	16.418	16.418	16.418	16.418	16.418	16.418	16.418	16.418
140.0	20.281	20.281	20.281	20.281	20.281	20.281	20.281	20.281	20.281	20.281
142.5	36.698	36.698	36.698	36.698	36.698	36.698	36.698	36.698	36.698	36.698
145.0	233.709	233.709	233.709	233.709	233.709	233.709	233.709	233.709	233.709	233.709
147.5	523.432	523.432	523.432	523.432	523.432	523.432	523.432	523.432	523.432	523.432
150.0	729.134	729.134	729.134	729.134	729.134	729.134	729.134	729.134	729.134	729.134
152.5	794.805	794.805	794.805	794.805	794.805	794.805	794.805	794.805	794.805	794.805
155.0	986.021	986.021	986.021	986.021	986.021	986.021	986.021	986.021	986.021	986.021
157.5	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812
160.0	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624
162.5	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978
165.0	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385
167.5	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393
170.0	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202
172.5	5341.520	5341.520	5341.520	5341.520	5341.520	5341.519	5341.519	5341.519	5341.519	5341.519
175.0	9493.251	9493.251	9493.251	9493.251	9493.251	9493.249	9493.249	9493.249	9493.249	9493.249
177.5	16736.303	16736.303	16736.303	16736.303	16736.302	16736.302	16736.301	16736.301	16736.301	16736.301
180.0	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298

## 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	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938	1248.938
2.5	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771	1241.771
5.0	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197	1229.197
7.5	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773	1220.773
10.0	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606	1213.606
12.5	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457	1209.457
15.0	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901	1199.901
17.5	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681	1183.681
20.0	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168	1160.168
22.5	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646	1113.646
25.0	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683	1034.683
27.5	927.430	927.430	927.430	927.430	927.430	927.430	927.430
30.0	792.138	792.138	792.138	792.138	792.138	792.138	792.138
32.5	644.147	644.147	644.147	644.147	644.147	644.147	644.147
35.0	528.595	528.595	528.595	528.595	528.595	528.595	528.595
37.5	458.434	458.434	458.434	458.434	458.434	458.434	458.434
40.0	414.552	414.552	414.552	414.552	414.552	414.552	414.552
42.5	382.112	382.112	382.112	382.112	382.112	382.112	382.112
45.0	353.570	353.570	353.570	353.570	353.570	353.570	353.570
47.5	325.908	325.908	325.908	325.908	325.908	325.908	325.908
50.0	297.366	297.366	297.366	297.366	297.366	297.366	297.366
52.5	268.070	268.070	268.070	268.070	268.070	268.070	268.070
55.0	238.773	238.773	238.773	238.773	238.773	238.773	238.773
57.5	210.105	210.105	210.105	210.105	210.105	210.105	210.105
60.0	182.317	182.317	182.317	182.317	182.317	182.317	182.317
62.5	156.919	156.919	156.919	156.919	156.919	156.919	156.919
65.0	133.658	133.658	133.658	133.658	133.658	133.658	133.658
67.5	112.119	112.119	112.119	112.119	112.119	112.119	112.119
70.0	92.139	92.139	92.139	92.139	92.139	92.139	92.139
72.5	74.587	74.587	74.587	74.587	74.587	74.587	74.587
75.0	59.360	59.360	59.360	59.360	59.360	59.360	59.360
77.5	45.894	45.894	45.894	45.894	45.894	45.894	45.894
80.0	33.924	33.924	33.924	33.924	33.924	33.924	33.924

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<b>82.5</b>	23.047	23.047	23.047	23.047	23.047	23.047	23.047
<b>85.0</b>	13.026	13.026	13.026	13.026	13.026	13.026	13.026
<b>87.5</b>	4.539	4.539	4.539	4.539	4.539	4.539	4.539
<b>90.0</b>	0.704	0.704	0.704	0.704	0.704	0.704	0.704
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>110.0</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>112.5</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>115.0</b>	0.966	0.966	0.966	0.966	0.966	0.966	0.966
<b>117.5</b>	1.931	1.931	1.931	1.931	1.931	1.931	1.931
<b>120.0</b>	1.931	1.931	1.931	1.931	1.931	1.931	1.931
<b>122.5</b>	2.897	2.897	2.897	2.897	2.897	2.897	2.897
<b>125.0</b>	3.863	3.863	3.863	3.863	3.863	3.863	3.863
<b>127.5</b>	4.829	4.829	4.829	4.829	4.829	4.829	4.829
<b>130.0</b>	7.726	7.726	7.726	7.726	7.726	7.726	7.726
<b>132.5</b>	9.657	9.657	9.657	9.657	9.657	9.657	9.657
<b>135.0</b>	12.555	12.555	12.555	12.555	12.555	12.555	12.555
<b>137.5</b>	16.418	16.418	16.418	16.418	16.418	16.418	16.418
<b>140.0</b>	20.281	20.281	20.281	20.281	20.281	20.281	20.281
<b>142.5</b>	36.698	36.698	36.698	36.698	36.698	36.698	36.698
<b>145.0</b>	233.709	233.709	233.709	233.709	233.709	233.709	233.709
<b>147.5</b>	523.432	523.432	523.432	523.432	523.432	523.432	523.432
<b>150.0</b>	729.134	729.134	729.134	729.134	729.134	729.134	729.134
<b>152.5</b>	794.805	794.805	794.805	794.805	794.805	794.805	794.805
<b>155.0</b>	986.021	986.021	986.021	986.021	986.021	986.021	986.021
<b>157.5</b>	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812	1273.812
<b>160.0</b>	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624	1504.624
<b>162.5</b>	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978	1691.978
<b>165.0</b>	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385	1962.385
<b>167.5</b>	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393	2441.393
<b>170.0</b>	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202	3405.202
<b>172.5</b>	5341.519	5341.519	5341.520	5341.520	5341.520	5341.520	5341.520
<b>175.0</b>	9493.249	9493.249	9493.251	9493.251	9493.251	9493.251	9493.251
<b>177.5</b>	16736.301	16736.302	16736.302	16736.302	16736.303	16736.303	16736.303
<b>180.0</b>	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298	21246.298

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Zone	Lumens	%Lamp	%Fixt
0-20	454.89	N.A.	11.50
0-30	918.77	N.A.	23.20
0-40	1265.09	N.A.	32.00
0-60	1751.94	N.A.	44.30
0-80	1949.36	N.A.	49.20
0-90	1965.12	N.A.	49.60
10-90	1848.2	N.A.	46.70
20-40	810.20	N.A.	20.50
20-50	1083.43	N.A.	27.40
40-70	620.26	N.A.	15.70
60-80	197.43	N.A.	5.00
70-80	64.01	N.A.	1.60
80-90	15.75	N.A.	0.40
90-110	0.47	N.A.	0.00
90-120	1.78	N.A.	0.00
90-130	5.42	N.A.	0.10
90-150	189.00	N.A.	4.80
90-180	1993.48	N.A.	50.40
110-180	1993.00	N.A.	50.30
0-180	3958.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.92
10-20	337.98
20-30	463.87
30-40	346.33
40-50	273.24
50-60	213.61
60-70	133.42
70-80	64.01
80-90	15.75
90-100	0.10
100-110	0.38
110-120	1.31
120-130	3.64
130-140	10.05
140-150	173.53
150-160	471.21
160-170	580.81
170-180	752.45

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-8TWU-L20-8TWD-XXX-DALI-UNV-ON-CSU-LW-WHD-WM 4000K\_.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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	99	95	91	88	91	88	85	82	74	72	70	62	61	59	51	50	49	44
2	91	84	78	74	84	78	73	69	66	63	60	56	53	51	46	44	43	38
3	84	75	68	63	77	70	64	59	60	55	52	50	47	45	42	40	38	34
4	77	67	60	54	71	63	56	51	54	49	45	46	42	39	38	36	34	30
5	71	61	53	47	66	57	50	45	49	44	40	42	38	35	35	33	30	27
6	66	55	47	42	61	51	45	40	45	39	36	38	34	31	32	30	27	25
7	62	50	43	37	57	47	40	36	41	36	32	35	31	28	30	27	25	22
8	57	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21
9	54	42	35	30	50	40	33	29	35	30	26	30	26	24	26	23	21	19
10	50	39	32	28	47	37	31	26	32	28	24	28	24	22	25	22	19	18

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.7	17.5	17.7	18.5	19.8	16.7	17.5	17.7	18.5	19.8
	3H	17.9	18.6	18.9	19.6	20.9	17.9	18.6	18.9	19.6	20.9
	4H	18.3	18.9	19.3	19.9	21.2	18.3	18.9	19.3	19.9	21.2
	6H	18.5	19.1	19.5	20.1	21.4	18.5	19.1	19.5	20.1	21.4
	8H	18.6	19.1	19.6	20.1	21.5	18.6	19.1	19.6	20.1	21.5
	12H	18.6	19.1	19.6	20.1	21.5	18.6	19.1	19.6	20.1	21.5

### UGR Viewed Endwise

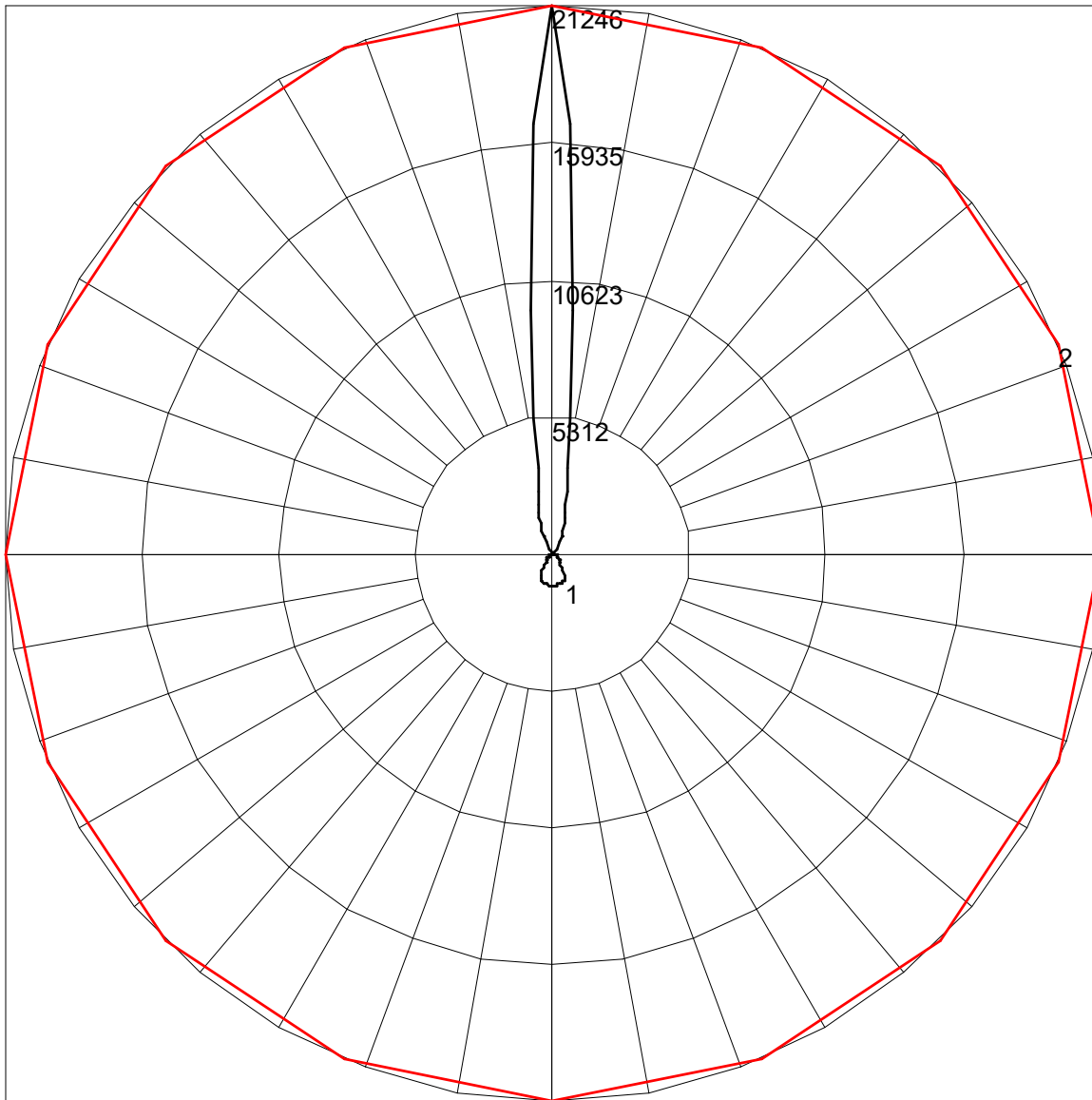
4H	2H	17.1	17.7	18.1	18.7	20.0	17.1	17.7	18.1	18.7	20.0
	3H	18.4	19.0	19.4	20.0	21.3	18.4	19.0	19.4	20.0	21.3
	4H	18.9	19.4	19.9	20.4	21.8	18.9	19.4	19.9	20.4	21.8
	6H	19.2	19.7	20.3	20.7	22.1	19.2	19.7	20.3	20.7	22.1
	8H	19.3	19.7	20.4	20.8	22.1	19.3	19.7	20.4	20.8	22.1
	12H	19.4	19.7	20.4	20.8	22.2	19.4	19.7	20.4	20.8	22.2
8H	4H	19.0	19.4	20.1	20.4	21.8	19.0	19.4	20.1	20.4	21.8
	6H	19.5	19.8	20.5	20.9	22.2	19.5	19.8	20.5	20.9	22.2
	8H	19.6	19.9	20.7	21.0	22.4	19.6	19.9	20.7	21.0	22.4
	12H	19.7	20.0	20.8	21.0	22.4	19.7	20.0	20.8	21.0	22.4
12H	4H	19.0	19.4	20.1	20.4	21.8	19.0	19.4	20.1	20.4	21.8
	6H	19.5	19.8	20.5	20.8	22.2	19.5	19.8	20.5	20.8	22.2
	8H	19.7	19.9	20.7	21.0	22.4	19.7	19.9	20.7	21.0	22.4

Maximum UGR = 22.4

# IES INDOOR REPORT

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## POLAR GRAPH



Maximum Candela = 21246.298 Located At Horizontal Angle = 0, Vertical Angle = 180

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

# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)