

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 14823

Luminaire Tested: **AW-SN-1T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14823  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-SN-1T5  
Description: INDIRECT WALL MOUNT LUMINAIRE WITH WHITE INTERIOR WITH SPECULAR REFLECTOR  
Light Source: ONE OSRAM 54 WATT FLUORESCENT LAMP  
FP54/841/HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

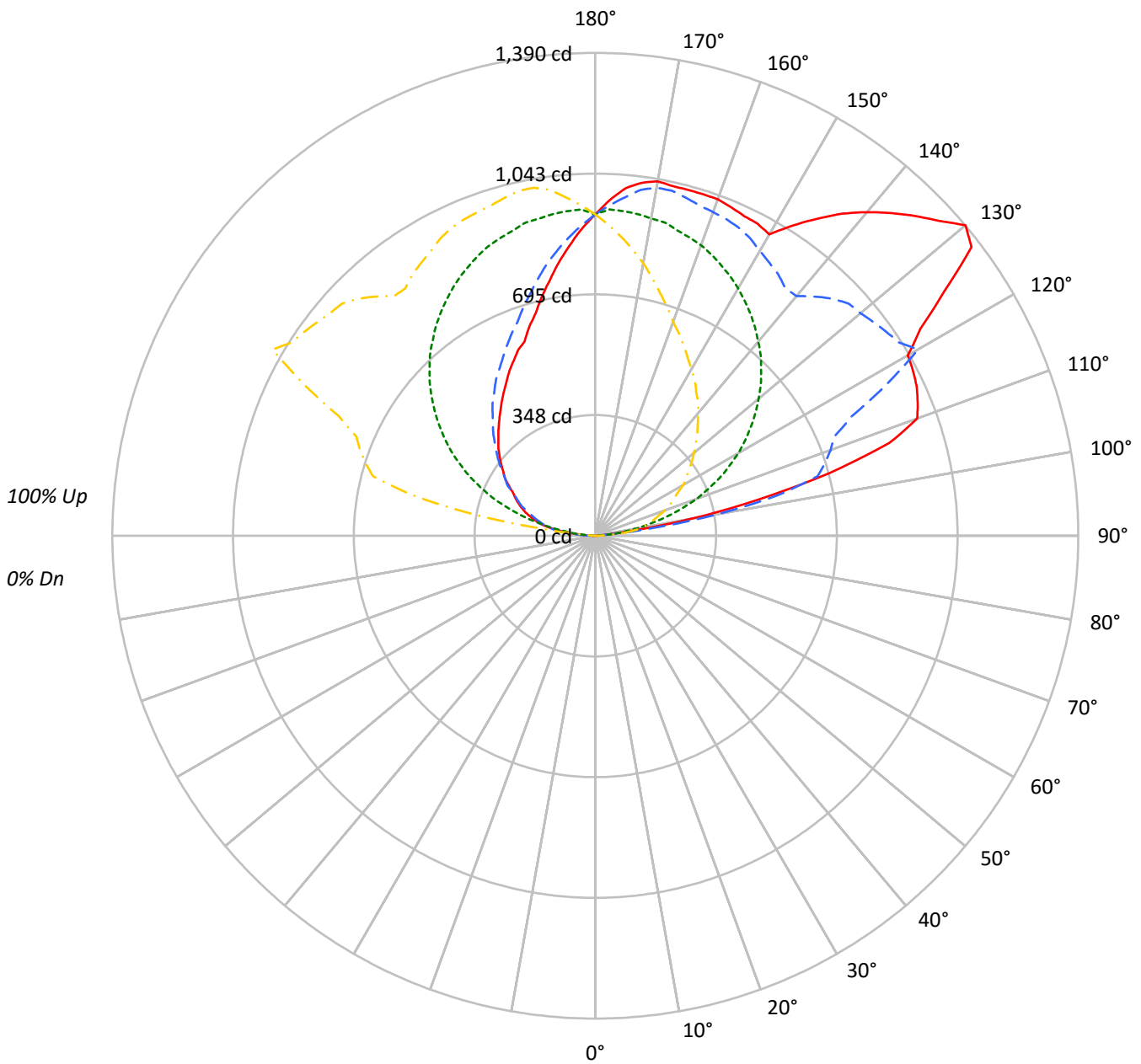
**Summary**

Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 3287.5 lumens  
Efficiency: 73.1%  
Efficacy: 54.8 lumens/watt  
N/A  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Indirect  
  
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20
RC	80									70									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																			
0	70	70	70	70	59	59	59	59	41	41	41	23	23	23	7	7	7	0	
1	63	60	58	55	54	52	50	48	35	34	33	20	20	19	7	6	6	0	
2	58	53	49	45	49	45	42	39	31	29	27	18	17	16	6	5	5	0	
3	52	46	41	37	45	40	36	32	27	25	23	16	14	13	5	5	4	0	
4	48	41	35	31	41	35	31	27	24	21	19	14	12	11	4	4	4	0	
5	44	36	31	27	37	31	26	23	21	18	16	12	11	10	4	4	3	0	
6	40	32	27	23	34	28	23	20	19	16	14	11	9	8	4	3	3	0	
7	37	29	23	20	31	25	20	17	17	14	12	10	8	7	3	3	2	0	
8	34	26	21	17	29	22	18	15	15	13	11	9	7	6	3	2	2	0	
9	31	23	18	15	27	20	16	13	14	11	9	8	7	6	3	2	2	0	
10	29	21	16	13	25	18	14	11	13	10	8	7	6	5	2	2	2	0	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
95°	Luminaire represents a point source (luminous area is zero).			
100°	No luminance values can be calculated.			
105°				
110°				
115°				
120°				
125°				
130°				
135°				
140°				
145°				
150°				
155°				
160°				
165°				
170°				
175°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	86.8	2.6	1.9
100°-110°	382.9	11.6	8.5
110°-120°	513.9	15.6	11.4
120°-130°	585.8	17.8	13.0
130°-140°	550.7	16.8	12.2
140°-150°	464.1	14.1	10.3
150°-160°	370.4	11.3	8.2
160°-170°	245.6	7.5	5.5
170°-180°	87.2	2.7	1.9
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	983.6	29.9	21.9
90°-150°	2584.2	78.6	57.4
90°-180°	3287.0	100.0	73.0
0°-180°	3287.5	100.0	73.1

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	26	34	52	34	26	69
105°	697	214	183	214	697	710
115°	1020	395	253	395	1020	1009
125°	1226	547	324	547	1226	1099
135°	1302	675	394	675	1302	1010
145°	1114	779	470	779	1114	702
155°	1015	858	556	858	1015	470
165°	1031	910	663	910	1031	292
175°	1004	938	840	938	1004	97
180°	925	925	925	925	925	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	2.6	5.5	0.5	13.3	13.3	24.0	31.8	5.5	13.3	5.5	31.8
95°	26.1	31.8	24.0	141.5	34.3	65.3	68.1	47.5	52.5	47.5	68.1
97.5°	83.8	162.1	159.3	297.4	73.5	86.6	110.1	86.6	96.6	86.6	110.1
100°	279.6	456.9	355.1	357.9	120.1	102.3	138.6	127.9	133.6	127.9	138.6
102.5°	480.4	555.8	537.3	375.7	162.1	112.3	154.3	141.5	165.0	141.5	154.3
105°	696.8	741.0	662.6	446.2	214.5	143.6	172.8	177.8	182.8	177.8	172.8
107.5°	886.9	874.1	691.8	545.2	261.1	170.0	190.6	190.6	204.1	190.6	190.6
110°	985.9	897.6	720.3	555.8	309.5	190.6	212.0	209.1	221.9	209.1	212.0
112.5°	1004.4	921.1	743.8	582.2	351.2	212.0	232.6	226.9	237.6	226.9	232.6
115°	1020.1	936.8	814.3	597.9	395.3	234.7	248.3	242.6	253.3	242.6	248.3
117.5°	1030.7	952.4	946.7	610.7	434.8	263.9	266.1	261.1	266.1	261.1	266.1
120°	1038.6	1035.7	1072.0	623.5	474.7	287.4	292.4	276.7	287.4	276.7	292.4
122.5°	1109.1	1239.3	1035.7	626.3	511.3	315.9	308.1	297.4	308.1	297.4	308.1
125°	1225.8	1302.0	1022.9	644.8	546.6	328.7	328.7	308.1	323.7	308.1	328.7
127.5°	1364.7	1299.2	1009.4	681.2	580.8	370.7	350.1	334.4	342.3	334.4	350.1
130°	1390.3	1249.3	996.6	714.6	613.5	399.2	370.7	355.1	360.1	355.1	370.7
132.5°	1341.2	1210.2	988.7	748.8	645.9	430.5	391.4	367.9	378.6	367.9	391.4
135°	1302.0	1173.8	965.2	777.3	674.7	456.9	414.9	389.2	394.2	389.2	414.9
137.5°	1260.0	1134.7	933.9	806.5	704.6	482.5	436.2	404.9	412.7	404.9	436.2
140°	1215.9	1103.4	900.4	834.9	729.2	513.8	459.7	425.6	430.5	425.6	459.7
142.5°	1168.9	1056.4	897.6	858.4	755.2	540.2	485.4	444.1	449.0	444.1	485.4
145°	1114.0	973.1	918.2	894.7	778.7	568.7	506.0	466.8	469.7	466.8	506.0
147.5°	1059.2	965.2	931.8	905.4	800.8	582.2	532.3	474.7	490.3	474.7	532.3
150°	1001.5	975.9	946.7	923.9	822.1	629.2	553.0	511.7	511.7	511.7	553.0
152.5°	1012.2	985.9	965.2	938.9	841.3	657.7	576.5	529.5	535.2	529.5	576.5
155°	1015.1	999.4	978.0	962.4	858.4	689.0	602.8	553.0	555.8	553.0	602.8
157.5°	1022.9	1004.4	985.9	980.9	875.5	720.3	629.2	576.5	579.3	576.5	629.2
160°	1030.7	1007.2	991.6	991.6	889.8	748.8	654.8	602.8	595.0	602.8	654.8
162.5°	1030.7	1007.2	996.6	996.6	900.4	775.1	689.0	626.3	631.3	626.3	689.0
165°	1030.7	1012.2	1007.2	996.6	910.4	806.5	722.4	662.6	662.6	662.6	722.4
167.5°	1030.7	1017.2	1017.2	985.9	923.9	827.1	759.5	699.0	706.8	699.0	759.5
170°	1035.7	1022.9	1017.2	983.7	927.5	837.8	795.8	720.3	748.8	720.3	795.8
172.5°	1025.0	1001.5	1004.4	973.1	933.9	874.1	830.0	780.1	795.8	780.1	830.0
175°	1004.4	973.1	978.0	960.2	937.8	894.7	863.4	822.1	839.9	822.1	863.4
177.5°	968.1	938.9	952.4	949.6	940.3	913.3	894.7	863.4	884.8	863.4	894.7
180°	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	24.0	13.3	13.3	0.5	5.5	2.6
95°	65.3	34.3	141.5	24.0	31.8	26.1
97.5°	86.6	73.5	297.4	159.3	162.1	83.8
100°	102.3	120.1	357.9	355.1	456.9	279.6
102.5°	112.3	162.1	375.7	537.3	555.8	480.4
105°	143.6	214.5	446.2	662.6	741.0	696.8
107.5°	170.0	261.1	545.2	691.8	874.1	886.9
110°	190.6	309.5	555.8	720.3	897.6	985.9
112.5°	212.0	351.2	582.2	743.8	921.1	1004.4
115°	234.7	395.3	597.9	814.3	936.8	1020.1
117.5°	263.9	434.8	610.7	946.7	952.4	1030.7
120°	287.4	474.7	623.5	1072.0	1035.7	1038.6
122.5°	315.9	511.3	626.3	1035.7	1239.3	1109.1
125°	328.7	546.6	644.8	1022.9	1302.0	1225.8
127.5°	370.7	580.8	681.2	1009.4	1299.2	1364.7
130°	399.2	613.5	714.6	996.6	1249.3	1390.3
132.5°	430.5	645.9	748.8	988.7	1210.2	1341.2
135°	456.9	674.7	777.3	965.2	1173.8	1302.0
137.5°	482.5	704.6	806.5	933.9	1134.7	1260.0
140°	513.8	729.2	834.9	900.4	1103.4	1215.9
142.5°	540.2	755.2	858.4	897.6	1056.4	1168.9
145°	568.7	778.7	894.7	918.2	973.1	1114.0
147.5°	582.2	800.8	905.4	931.8	965.2	1059.2
150°	629.2	822.1	923.9	946.7	975.9	1001.5
152.5°	657.7	841.3	938.9	965.2	985.9	1012.2
155°	689.0	858.4	962.4	978.0	999.4	1015.1
157.5°	720.3	875.5	980.9	985.9	1004.4	1022.9
160°	748.8	889.8	991.6	991.6	1007.2	1030.7
162.5°	775.1	900.4	996.6	996.6	1007.2	1030.7
165°	806.5	910.4	996.6	1007.2	1012.2	1030.7
167.5°	827.1	923.9	985.9	1017.2	1017.2	1030.7
170°	837.8	927.5	983.7	1017.2	1022.9	1035.7
172.5°	874.1	933.9	973.1	1004.4	1001.5	1025.0
175°	894.7	937.8	960.2	978.0	973.1	1004.4
177.5°	913.3	940.3	949.6	952.4	938.9	968.1
180°	925.1	925.1	925.1	925.1	925.1	925.1

(END OF REPORT)