

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: 14064

Luminaire Tested: **AW-SN-1T8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14064  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-SN-1T8  
Description: FLUORESCENT INDIRECT INDOOR LUMINAIRE WITH WHITE INTERIOR AND SPECULAR REFLECTOR  
Light Source: ONE 32 WATT PHILIPS LAMP  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

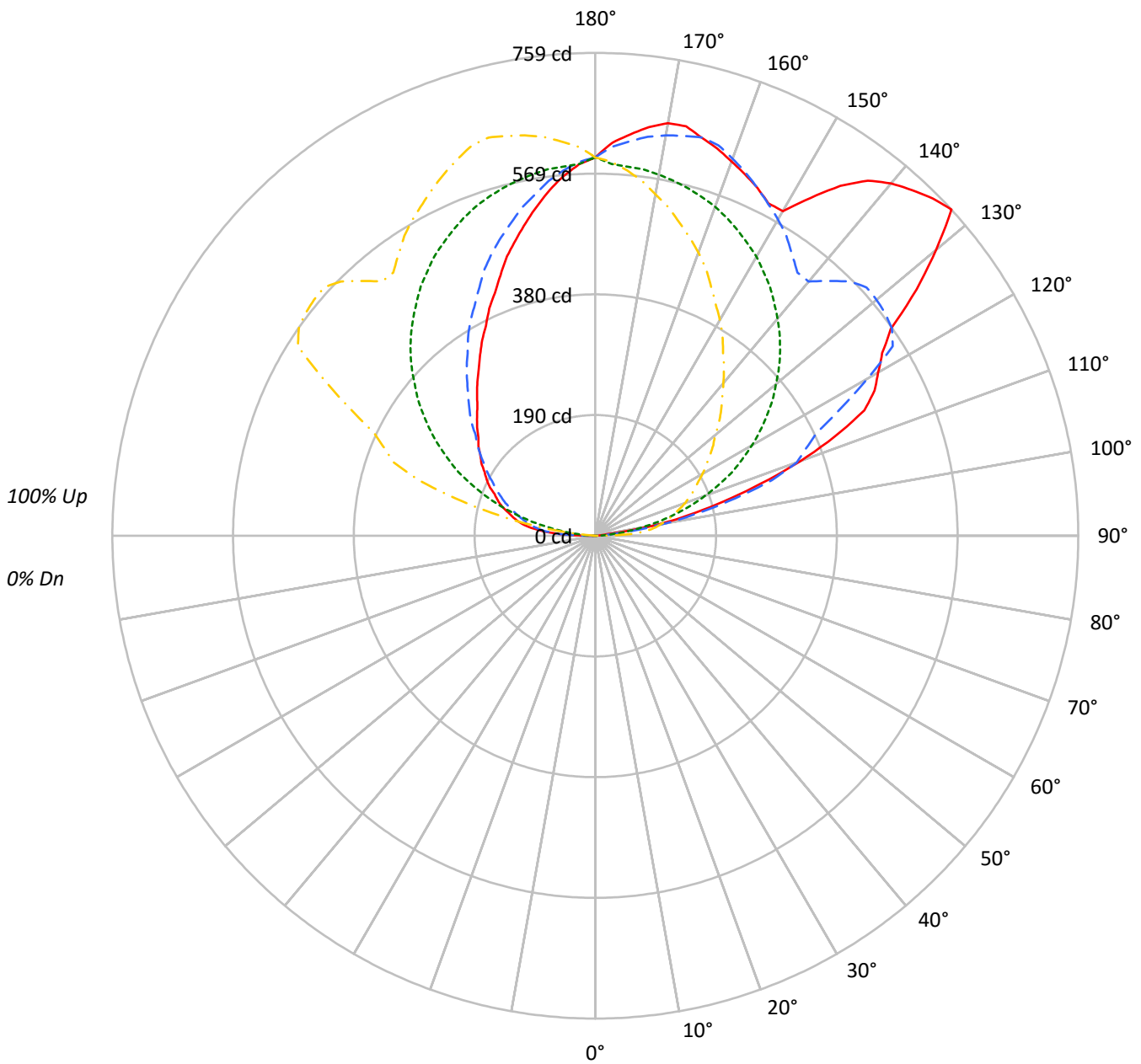
**Summary**

Lumens per Lamp: 3000 (1 lamp)  
Luminaire Lumens: 1920.3 lumens  
Efficiency: 64.0%  
Efficacy: 60.0 lumens/watt  
N/A  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.16')  
CIE Type: Indirect  
  
Input Watts (W): 32  
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									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	50	30	10	0																	
RCR																																						
0	61	61	61	61	52	52	52	52	36	36	36	20	20	20	7	7	7	0																				
1	55	53	51	49	47	45	43	42	31	30	29	18	17	17	6	6	5	0																				
2	50	46	43	40	43	39	37	34	27	25	24	16	15	14	5	5	5	0																				
3	46	40	36	33	39	35	31	28	24	22	20	14	13	12	4	4	4	0																				
4	42	36	31	27	36	31	27	24	21	19	17	12	11	10	4	4	3	0																				
5	38	31	27	23	33	27	23	20	19	16	14	11	9	8	3	3	3	0																				
6	35	28	23	20	30	24	20	17	17	14	12	10	8	7	3	3	2	0																				
7	32	25	20	17	27	22	18	15	15	12	11	9	7	6	3	2	2	0																				
8	30	23	18	15	25	19	16	13	13	11	9	8	6	6	3	2	2	0																				
9	28	20	16	13	23	18	14	11	12	10	8	7	6	5	2	2	2	0																				
10	26	19	14	11	22	16	12	10	11	9	7	6	5	4	2	2	1	0																				

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

	0°	90°	180°	270°
95°	106	326	3505	326
100°	2420	802	3052	802
105°	3787	1214	2569	1214
110°	4856	1541	2314	1541
115°	5469	1794	2153	1794
120°	5166	1968	2023	1968
125°	5032	2119	1956	2119
130°	5587	2246	1916	2246
135°	5487	2368	1925	2368
140°	4915	2467	1963	2467
145°	4290	2567	2041	2567
150°	3578	2656	2158	2656
155°	3515	2736	2298	2736
160°	3533	2823	2460	2823
165°	3569	2899	2657	2899
170°	3573	2981	2856	2981
175°	3411	3060	3057	3060



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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°	51.0	2.7	1.7
100°-110°	178.5	9.3	5.9
110°-120°	275.3	14.3	9.2
120°-130°	329.2	17.1	11.0
130°-140°	337.4	17.6	11.2
140°-150°	293.3	15.3	9.8
150°-160°	238.4	12.4	7.9
160°-170°	160.7	8.4	5.4
170°-180°	56.5	2.9	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°	504.7	26.3	16.8
90°-150°	1464.7	76.3	48.8
90°-180°	1920.0	100.0	64.0
0°-180°	1920.3	100.0	64.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
90°	0	0	0	0	0	
95°	2	25	83	25	2	19
105°	209	128	142	128	209	224
115°	466	238	184	238	466	445
125°	567	329	220	329	567	524
135°	750	411	263	411	750	573
145°	671	478	319	478	671	420
155°	603	530	394	530	603	279
165°	647	565	482	565	647	183
175°	634	582	568	582	634	61
180°	595	595	595	595	595	



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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°	0.5	0.5	1.5	3.3	11.2	37.6	54.2	46.9	55.2	46.9	54.2
95°	2.5	2.5	4.3	40.3	24.6	54.2	78.2	73.6	82.7	73.6	78.2
97.5°	18.2	65.3	58.8	86.5	46.9	62.5	93.1	93.8	105.9	93.8	93.1
100°	95.8	120.8	112.5	137.4	72.8	78.2	104.9	113.2	120.8	113.2	104.9
102.5°	150.3	178.8	166.9	166.9	100.7	89.3	116.0	124.3	131.9	124.3	116.0
105°	209.3	250.9	228.0	212.1	128.1	102.1	127.1	135.4	142.0	135.4	127.1
107.5°	273.1	303.6	290.8	253.7	156.7	110.5	138.2	146.5	154.1	146.5	138.2
110°	342.5	368.2	336.9	285.2	184.0	129.9	150.3	156.9	163.2	156.9	150.3
112.5°	407.0	425.4	358.1	302.6	210.3	144.8	160.4	166.9	171.5	166.9	160.4
115°	466.3	458.0	384.1	323.1	237.6	160.4	171.5	176.0	183.6	176.0	171.5
117.5°	494.8	475.4	435.8	331.4	260.1	178.8	181.6	186.4	192.7	186.4	181.6
120°	513.2	497.6	494.0	334.2	284.2	193.7	194.7	193.7	201.0	193.7	194.7
122.5°	534.6	542.0	554.1	339.7	306.9	215.9	206.5	206.5	212.1	206.5	206.5
125°	566.9	610.3	568.7	363.7	329.0	235.3	219.7	215.9	220.4	215.9	219.7
127.5°	636.3	688.0	574.2	395.9	351.2	256.5	233.5	227.0	231.5	227.0	233.5
130°	699.1	724.8	577.0	414.6	370.6	276.9	245.4	237.1	239.8	237.1	245.4
132.5°	759.1	708.2	578.0	440.3	391.4	295.3	263.8	245.4	251.9	245.4	263.8
135°	749.8	699.1	565.2	463.5	410.7	318.5	279.7	260.3	263.0	260.3	279.7
137.5°	736.9	685.2	543.0	490.3	428.7	339.7	295.3	273.1	274.1	273.1	295.3
140°	723.0	671.3	521.5	508.7	445.4	359.9	313.0	288.0	288.8	288.0	313.0
142.5°	703.6	638.0	521.5	529.9	461.6	378.5	332.1	302.6	304.6	302.6	332.1
145°	671.3	600.2	539.2	548.5	478.3	401.5	349.8	319.3	319.3	319.3	349.8
147.5°	629.7	571.5	558.6	568.7	492.0	419.9	372.0	336.9	336.9	336.9	372.0
150°	589.1	580.8	574.2	582.6	506.4	438.6	391.4	355.3	355.3	355.3	391.4
152.5°	589.1	593.7	588.1	592.7	518.0	458.0	409.8	373.7	372.0	373.7	409.8
155°	603.0	608.5	603.0	600.2	529.5	471.9	431.0	391.4	394.2	391.4	431.0
157.5°	614.8	618.6	617.6	604.8	540.6	490.3	454.2	415.4	412.6	415.4	454.2
160°	625.9	632.5	630.7	608.5	550.3	505.9	473.6	437.6	435.8	437.6	473.6
162.5°	638.0	639.8	643.6	610.3	558.1	521.5	492.0	459.7	460.8	459.7	492.0
165°	647.4	650.2	648.1	611.3	565.0	531.9	509.7	476.4	481.9	476.4	509.7
167.5°	659.2	655.7	643.6	611.3	571.1	547.5	529.1	504.1	504.1	504.1	529.1
170°	658.5	650.2	639.1	611.3	576.3	557.6	544.7	523.6	526.3	523.6	544.7
172.5°	648.1	634.3	632.5	608.5	580.8	568.7	562.4	543.0	548.5	543.0	562.4
175°	633.5	625.2	622.4	604.8	582.2	579.0	576.3	561.4	567.9	561.4	576.3
177.5°	618.6	611.3	612.1	600.2	584.8	584.3	588.1	576.3	584.3	576.3	588.1
180°	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7



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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°	37.6	11.2	3.3	1.5	0.5	0.5
95°	54.2	24.6	40.3	4.3	2.5	2.5
97.5°	62.5	46.9	86.5	58.8	65.3	18.2
100°	78.2	72.8	137.4	112.5	120.8	95.8
102.5°	89.3	100.7	166.9	166.9	178.8	150.3
105°	102.1	128.1	212.1	228.0	250.9	209.3
107.5°	110.5	156.7	253.7	290.8	303.6	273.1
110°	129.9	184.0	285.2	336.9	368.2	342.5
112.5°	144.8	210.3	302.6	358.1	425.4	407.0
115°	160.4	237.6	323.1	384.1	458.0	466.3
117.5°	178.8	260.1	331.4	435.8	475.4	494.8
120°	193.7	284.2	334.2	494.0	497.6	513.2
122.5°	215.9	306.9	339.7	554.1	542.0	534.6
125°	235.3	329.0	363.7	568.7	610.3	566.9
127.5°	256.5	351.2	395.9	574.2	688.0	636.3
130°	276.9	370.6	414.6	577.0	724.8	699.1
132.5°	295.3	391.4	440.3	578.0	708.2	759.1
135°	318.5	410.7	463.5	565.2	699.1	749.8
137.5°	339.7	428.7	490.3	543.0	685.2	736.9
140°	359.9	445.4	508.7	521.5	671.3	723.0
142.5°	378.5	461.6	529.9	521.5	638.0	703.6
145°	401.5	478.3	548.5	539.2	600.2	671.3
147.5°	419.9	492.0	568.7	558.6	571.5	629.7
150°	438.6	506.4	582.6	574.2	580.8	589.1
152.5°	458.0	518.0	592.7	588.1	593.7	589.1
155°	471.9	529.5	600.2	603.0	608.5	603.0
157.5°	490.3	540.6	604.8	617.6	618.6	614.8
160°	505.9	550.3	608.5	630.7	632.5	625.9
162.5°	521.5	558.1	610.3	643.6	639.8	638.0
165°	531.9	565.0	611.3	648.1	650.2	647.4
167.5°	547.5	571.1	611.3	643.6	655.7	659.2
170°	557.6	576.3	611.3	639.1	650.2	658.5
172.5°	568.7	580.8	608.5	632.5	634.3	648.1
175°	579.0	582.2	604.8	622.4	625.2	633.5
177.5°	584.3	584.8	600.2	612.1	611.3	618.6
180°	594.7	594.7	594.7	594.7	594.7	594.7

(END OF REPORT)