

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: CTL58897

Luminaire Tested: **NB-SW-3T8-XUX-1 INBOARD ONLY**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58897  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-XUX-1 INBOARD ONLY  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS  
  
Light Source: 32 WATT T8 LAMPS  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2900 (1 lamp)  
Luminaire Lumens: 1792.3 lumens  
Efficiency: 61.8%  
Efficacy: 46.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Indirect

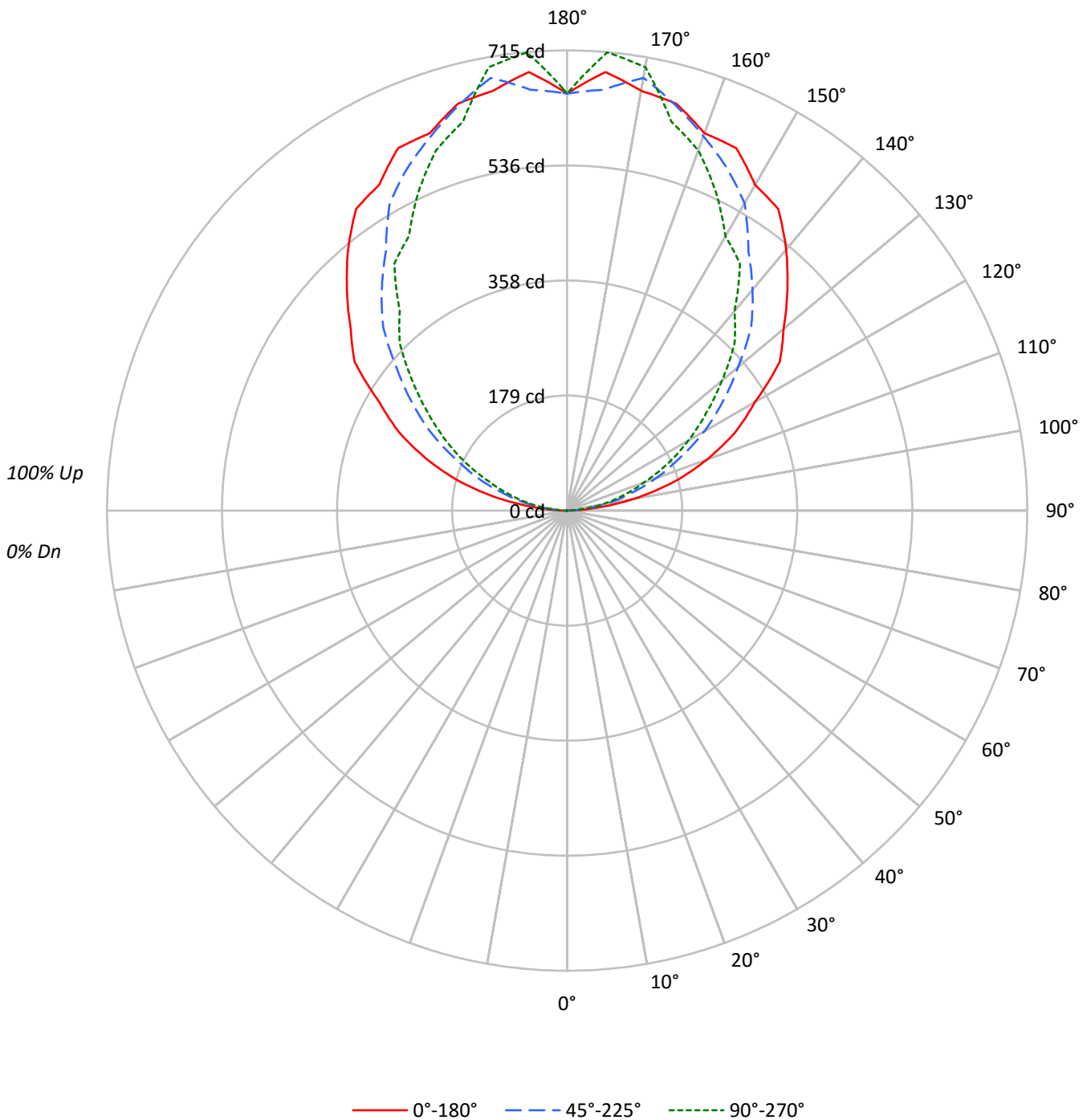
Input Watts (W): 39  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				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	0
RCR																		
0	59	59	59	59	50	50	50	50	34	34	34	20	20	20	6	6	6	0
1	54	51	49	47	46	44	42	40	30	29	28	17	17	16	6	5	5	0
2	49	45	41	38	41	38	35	33	26	24	23	15	14	13	5	5	4	0
3	44	39	35	32	38	33	30	27	23	21	19	13	12	11	4	4	4	0
4	40	34	30	27	34	29	26	23	20	18	16	12	11	10	4	3	3	0
5	37	30	26	22	31	26	22	20	18	16	14	10	9	8	3	3	3	0
6	34	27	23	19	29	23	19	17	16	14	12	9	8	7	3	3	2	0
7	31	24	20	17	26	21	17	14	14	12	10	8	7	6	3	2	2	0
8	29	22	17	14	24	19	15	13	13	11	9	8	6	5	2	2	2	0
9	27	20	15	13	23	17	13	11	12	9	8	7	6	5	2	2	2	0
10	25	18	14	11	21	15	12	10	11	8	7	6	5	4	2	2	1	0

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

	0°	45°	90°
0°	0	0	0
5°	1	0	0
10°	0	0	1
15°	0	0	1
20°	0	0	0
25°	0	1	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	1	1	0
55°	2	0	0
60°	1	0	0
65°	0	1	1
70°	0	1	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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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°	0.1	0.0	0.0
40°-50°	0.1	0.0	0.0
50°-60°	0.1	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.2	0.0	0.0
90°-100°	32.5	1.8	1.1
100°-110°	119.8	6.7	4.1
110°-120°	208.6	11.6	7.2
120°-130°	278.9	15.6	9.6
130°-140°	317.9	17.7	11.0
140°-150°	315.9	17.6	10.9
150°-160°	270.9	15.1	9.3
160°-170°	183.1	10.2	6.3
170°-180°	64.0	3.6	2.2
0°-30°	0.1	0.0	0.0
0°-40°	0.1	0.0	0.0
0°-60°	0.4	0.0	0.0
0°-90°	0.7	0.0	0.0
90°-120°	360.9	20.1	12.4
90°-150°	1273.6	71.1	43.9
90°-180°	1792.0	100.0	61.8
0°-180°	1792.3	100.0	61.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	3	1	0	0	0	6
95°	40	34	22	17	14	52
105°	171	125	101	92	89	179
115°	288	238	193	181	172	283
125°	403	352	295	270	264	354
135°	484	459	404	368	368	374
145°	572	545	491	467	468	354
155°	621	625	587	560	547	283
165°	655	664	652	638	626	183
175°	684	659	656	677	715	64
180°	648	648	648	648	648	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.4	0.0	0.0	0.0	0.0
10°	0.0	0.2	0.0	0.0	0.2
15°	0.0	0.0	0.1	0.2	0.2
20°	0.1	0.2	0.1	0.0	0.0
25°	0.1	0.0	0.2	0.2	0.0
30°	0.1	0.1	0.0	0.2	0.0
35°	0.0	0.1	0.1	0.1	0.0
40°	0.1	0.2	0.1	0.1	0.1
45°	0.0	0.2	0.1	0.1	0.0
50°	0.2	0.2	0.2	0.1	0.1
55°	0.3	0.1	0.1	0.3	0.1
60°	0.2	0.2	0.1	0.0	0.1
65°	0.0	0.1	0.1	0.2	0.1
70°	0.0	0.0	0.1	0.0	0.0
75°	0.0	0.1	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
90°	3.0	1.2	0.1	0.1	0.1
95°	39.9	33.7	22.4	16.7	13.8
100°	105.7	75.1	62.2	58.0	55.4
105°	170.9	125.1	100.9	91.9	89.0
110°	230.4	182.5	146.9	136.5	126.1
115°	288.4	237.6	192.6	180.9	172.0
120°	336.5	293.8	246.0	226.6	217.3
125°	403.3	352.2	295.3	270.3	263.6
130°	439.0	399.9	346.2	317.9	313.9
135°	483.9	458.8	404.5	368.5	367.7
140°	529.5	498.6	448.1	415.3	404.6
145°	571.9	545.2	491.2	467.0	468.3
150°	584.3	592.5	551.2	511.6	491.9
155°	621.4	625.1	587.3	560.5	546.7
160°	623.9	647.7	619.0	607.9	595.5
165°	654.6	663.6	651.8	638.0	625.7
170°	662.3	660.1	682.7	675.1	699.6
175°	684.0	659.0	656.5	677.0	714.6
180°	647.9	647.9	647.9	647.9	647.9

(END OF REPORT)