

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: CTL58882

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58882  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-UDU-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: 1446.4 lumens  
Efficiency: 49.9%  
Efficacy: 37.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.21 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Direct

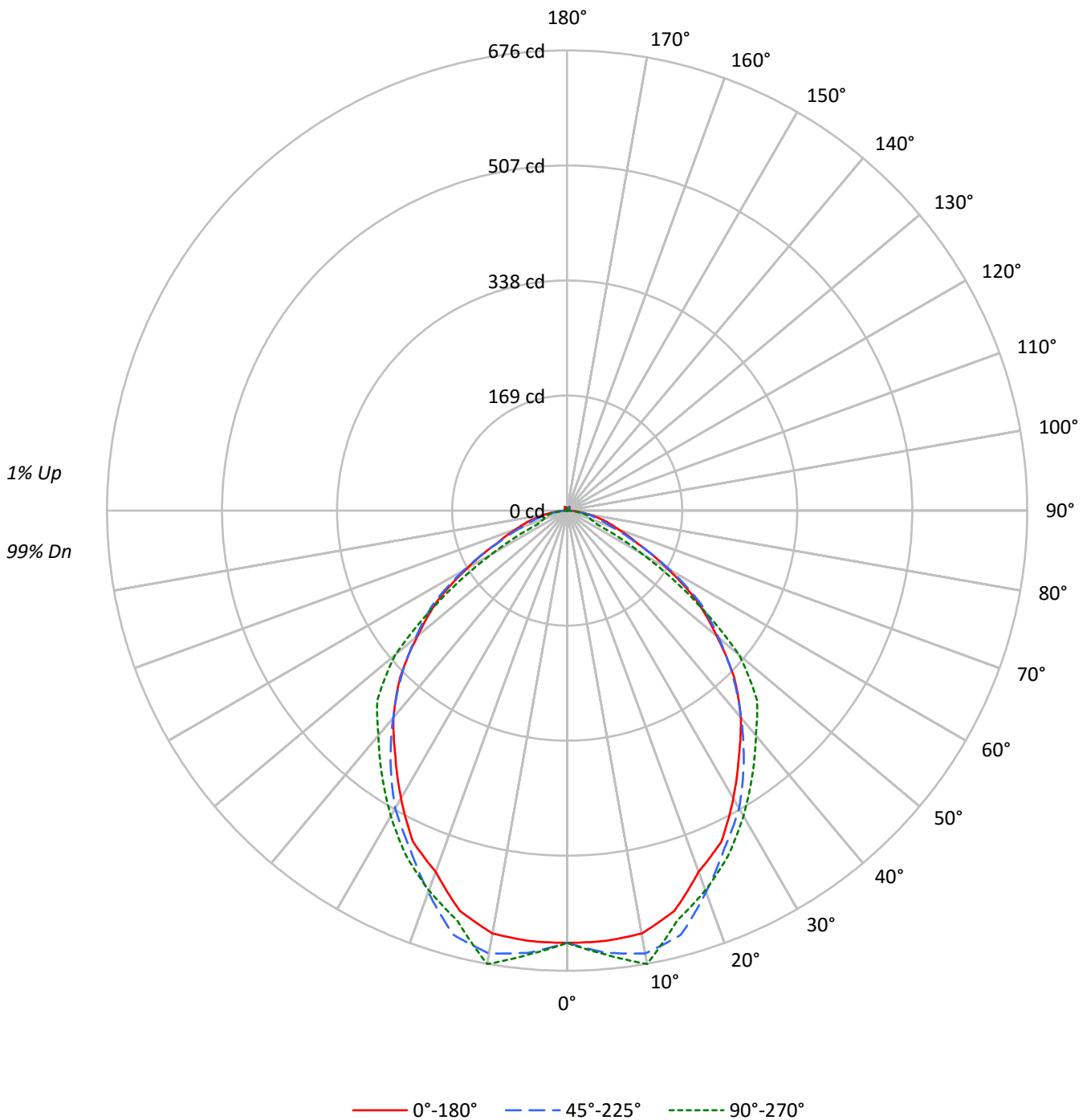
Input Watts (W): 39  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	58	58	58	58	55	55	55	53	53	53	50	50	50	49
1	55	53	51	49	53	52	50	48	49	48	47	47	46	45	46	45	44	43
2	51	47	44	41	49	46	43	41	44	42	40	42	41	39	41	39	38	37
3	47	42	38	35	45	41	38	35	39	37	34	38	36	34	37	35	33	32
4	43	37	34	30	42	37	33	30	36	32	30	34	32	29	33	31	29	28
5	40	34	30	27	39	33	29	26	32	29	26	31	28	26	30	28	26	25
6	37	31	27	24	36	30	26	23	29	26	23	28	25	23	28	25	23	22
7	34	28	24	21	33	28	24	21	27	23	21	26	23	21	25	22	20	19
8	32	26	22	19	31	25	21	19	25	21	19	24	21	19	23	21	18	17
9	30	24	20	17	29	23	20	17	23	19	17	22	19	17	22	19	17	16
10	28	22	18	16	27	22	18	16	21	18	15	21	18	15	20	17	15	14

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

	0°	45°	90°
0°	2278	2278	2278
5°	2274	2294	2295
10°	2274	2298	2333
15°	2226	2236	2134
20°	2110	2075	2031
25°	2065	1925	1928
30°	1955	1812	1812
35°	1849	1668	1698
40°	1771	1520	1593
45°	1662	1379	1518
50°	1494	1229	1333
55°	1348	1090	964
60°	1103	855	590
65°	855	597	245
70°	717	417	203
75°	632	322	211
80°	484	243	159
85°	345	102	68



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	61.8	4.3	2.1
10°-20°	176.2	12.2	6.1
20°-30°	253.7	17.5	8.7
30°-40°	286.0	19.8	9.9
40°-50°	275.5	19.1	9.5
50°-60°	208.5	14.4	7.2
60°-70°	103.6	7.2	3.6
70°-80°	48.6	3.4	1.7
80°-90°	13.6	0.9	0.5
90°-100°	1.1	0.1	0.0
100°-110°	2.2	0.2	0.1
110°-120°	3.0	0.2	0.1
120°-130°	3.4	0.2	0.1
130°-140°	3.2	0.2	0.1
140°-150°	2.8	0.2	0.1
150°-160°	1.9	0.1	0.1
160°-170°	0.9	0.1	0.0
170°-180°	0.2	0.0	0.0
0°-30°	491.7	34.0	17.0
0°-40°	777.7	53.8	26.8
0°-60°	1261.8	87.2	43.5
0°-90°	1427.6	98.7	49.2
90°-120°	6.3	0.4	0.2
90°-150°	15.8	1.1	0.5
90°-180°	19.0	1.3	0.7
0°-180°	1446.4	100.0	49.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	635	646	652	653	655	60
15°	609	612	645	632	624	170
25°	536	552	547	557	560	245
35°	440	458	452	461	474	276
45°	347	348	345	372	395	266
55°	234	229	241	241	224	206
65°	114	121	111	74	49	118
75°	56	55	46	37	33	59
85°	14	13	10	9	8	15
90°	1	0	0	0	0	3
95°	2	2	0	0	0	2
105°	3	3	2	2	1	3
115°	3	3	4	2	2	3
125°	4	5	4	3	2	4
135°	5	5	4	4	2	4
145°	6	5	5	4	3	4
155°	5	5	4	3	2	2
165°	4	5	3	2	2	1
175°	3	1	2	3	3	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	635.0	635.0	635.0	635.0	635.0
5°	634.7	646.5	652.0	653.0	654.9
10°	630.8	626.4	660.6	656.2	676.4
15°	608.8	612.3	645.3	632.2	623.6
20°	564.7	598.0	596.6	598.9	593.7
25°	536.2	551.7	547.0	556.7	559.5
30°	488.1	506.9	505.1	507.9	518.0
35°	439.9	457.5	452.3	460.6	474.4
40°	397.0	404.5	397.5	415.7	431.3
45°	347.1	348.3	344.7	372.3	394.8
50°	286.8	287.2	290.6	320.7	329.8
55°	233.9	229.4	240.9	241.4	224.5
60°	169.6	175.4	174.5	149.1	127.7
65°	113.6	121.0	110.8	74.1	48.6
70°	79.6	79.8	69.1	49.6	36.3
75°	55.8	55.4	46.5	36.9	33.4
80°	31.4	32.5	29.7	24.2	21.6
85°	14.1	12.7	10.1	8.8	7.7
90°	1.4	0.5	0.3	0.2	0.0
95°	1.8	1.8	0.5	0.4	0.2
100°	2.8	2.1	1.4	1.3	0.4
105°	2.7	2.8	2.2	1.7	1.2
110°	3.6	3.0	2.4	2.3	1.4
115°	2.9	3.2	3.5	2.5	2.4
120°	3.9	4.4	4.3	3.6	1.8
125°	4.4	4.6	3.8	3.2	1.8
130°	4.6	4.5	4.2	3.5	2.5
135°	5.2	5.0	4.4	4.1	2.0
140°	5.6	4.1	4.9	3.5	2.8
145°	6.4	4.6	4.8	4.1	3.0
150°	6.3	6.2	4.7	3.9	3.2
155°	4.8	4.8	4.2	2.6	2.4
160°	4.8	4.2	3.9	2.8	2.6
165°	4.3	4.6	2.8	2.1	2.4
170°	3.8	2.2	2.7	2.3	2.6
175°	3.0	1.0	2.3	2.8	2.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)