

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: CTL58844

Luminaire Tested: **NB-SW-2T8-DL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58844  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-2T8-DL4  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT  
  
Light Source: 32 WATT T8 LAMP  
FP32T8/835. LUMEN RATING = 2900 LMS.  
Ballast/Driver: -

**Summary**

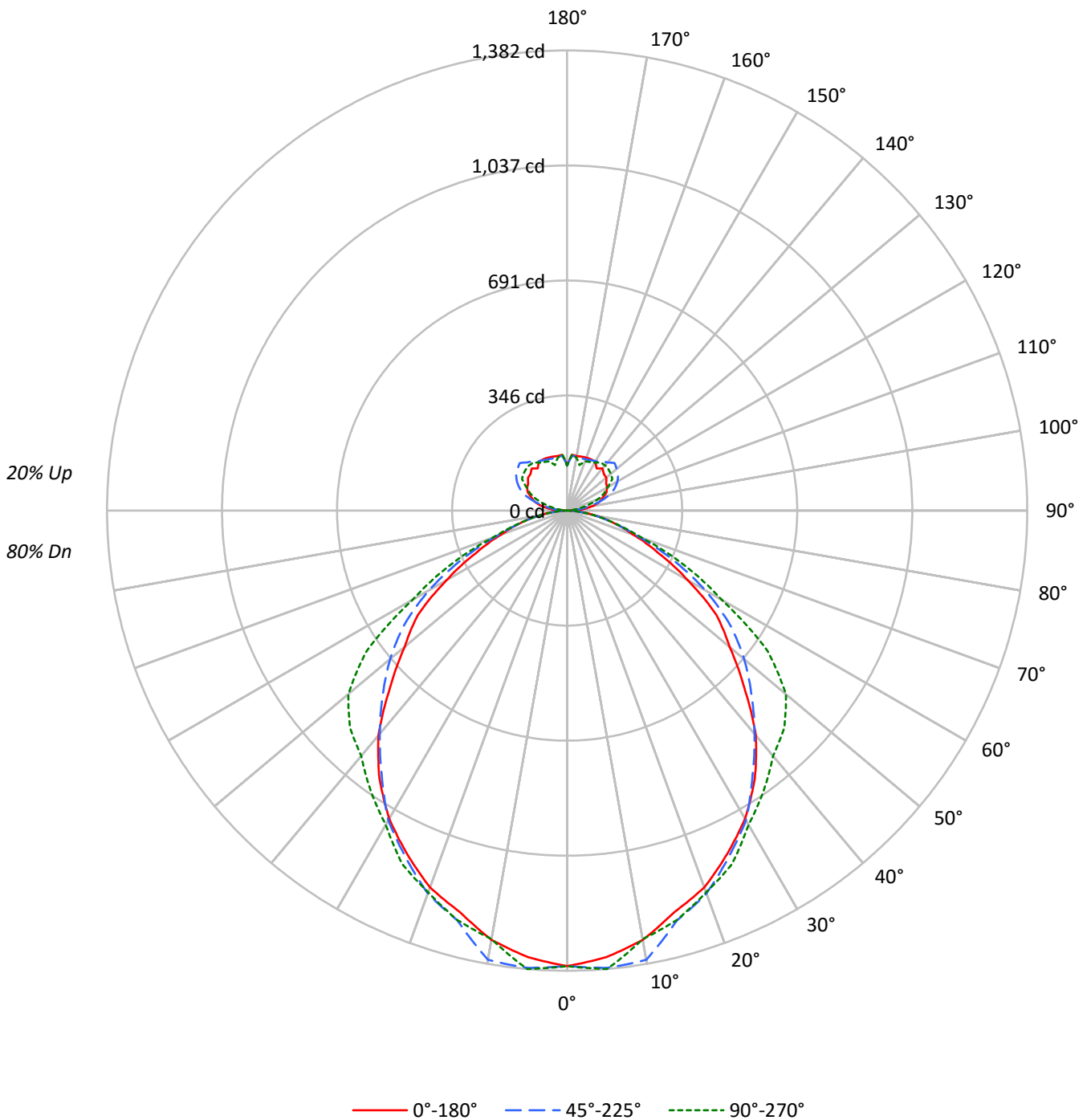
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4168.0 lumens  
Efficiency: 71.9%  
Efficacy: 53.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.19 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (Ain): 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										
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	50	30	10	0														
RCR																																						
0	82	82	82	82	79	79	79	79	72	72	72	66	66	66	60	60	60	60	60	60	60	60	60	58														
1	76	72	70	67	72	69	67	65	64	62	60	59	57	56	54	53	52	54	53	52	54	53	52	49														
2	69	64	59	55	66	61	57	54	56	53	50	52	49	47	48	46	44	48	46	44	48	46	44	42														
3	63	56	51	46	60	54	49	45	50	46	42	46	43	40	43	40	38	43	40	38	43	40	38	36														
4	58	50	44	39	55	48	43	38	44	40	36	41	37	34	38	35	33	38	35	33	38	35	33	31														
5	53	45	39	34	51	43	37	33	40	35	32	37	33	30	34	31	29	34	31	29	34	31	29	27														
6	49	40	34	30	47	39	33	29	36	31	28	34	30	26	31	28	25	31	28	25	31	28	25	23														
7	46	36	30	26	44	35	30	26	33	28	25	31	27	24	29	25	22	29	25	22	29	25	22	21														
8	42	33	27	23	41	32	27	23	30	25	22	28	24	21	26	23	20	28	24	21	26	23	20	19														
9	40	30	25	21	38	30	24	21	28	23	20	26	22	19	24	21	18	26	22	19	24	21	18	17														
10	37	28	23	19	36	27	22	19	26	21	18	24	20	17	23	19	17	24	20	17	23	19	17	15														

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

	0°	45°	90°
0°	4909	4909	4909
5°	4824	4851	4842
10°	4720	4766	4509
15°	4561	4414	4356
20°	4501	4258	4174
25°	4381	4040	4036
30°	4279	3853	3812
35°	4132	3579	3681
40°	3931	3346	3554
45°	3601	3135	3547
50°	3319	2935	3469
55°	3158	2701	3160
60°	2720	2348	2480
65°	2280	1887	1958
70°	1904	1363	1328
75°	1650	992	934
80°	1314	693	601
85°	961	297	255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	128.8	3.1	2.2
10°-20°	360.6	8.7	6.2
20°-30°	529.7	12.7	9.1
30°-40°	616.6	14.8	10.6
40°-50°	626.3	15.0	10.8
50°-60°	542.3	13.0	9.3
60°-70°	345.3	8.3	6.0
70°-80°	159.3	3.8	2.7
80°-90°	41.1	1.0	0.7
90°-100°	31.6	0.8	0.5
100°-110°	101.1	2.4	1.7
110°-120°	142.9	3.4	2.5
120°-130°	153.1	3.7	2.6
130°-140°	139.7	3.4	2.4
140°-150°	110.4	2.6	1.9
150°-160°	78.1	1.9	1.3
160°-170°	46.2	1.1	0.8
170°-180°	15.1	0.4	0.3
0°-30°	1019.1	24.5	17.6
0°-40°	1635.7	39.2	28.2
0°-60°	2804.2	67.3	48.3
0°-90°	3349.9	80.4	57.8
90°-120°	275.6	6.6	4.8
90°-150°	678.8	16.3	11.7
90°-180°	818.0	19.6	14.1
0°-180°	4168.0	100.0	71.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1346	1310	1378	1357	1382	127
15°	1248	1284	1274	1283	1273	354
25°	1138	1161	1148	1139	1171	525
35°	983	962	971	994	1028	613
45°	752	756	784	865	922	583
55°	548	534	597	685	736	481
65°	303	316	350	378	389	306
75°	146	147	143	146	148	155
85°	39	36	29	29	29	42
90°	8	3	1	1	1	14
95°	47	35	24	13	10	43
105°	100	124	99	84	64	104
115°	130	159	157	139	122	127
125°	143	179	187	168	166	129
135°	155	171	202	187	175	122
145°	154	173	180	179	176	101
155°	170	173	167	171	161	78
165°	168	166	162	165	141	48
175°	168	154	165	153	169	16
180°	135	135	135	135	135	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1368.1	1368.1	1368.1	1368.1	<i>1368.1</i>
5°	<i>1346.5</i>	<i>1310.2</i>	<i>1378.5</i>	<i>1357.4</i>	<i>1382.0</i>
10°	1309.1	1339.0	1370.0	1339.5	<i>1307.2</i>
15°	1247.6	1284.4	1273.8	1282.9	<i>1273.0</i>
20°	1204.4	1225.2	1223.9	1211.8	<i>1220.2</i>
25°	1137.6	1161.0	1148.0	1139.2	<i>1171.4</i>
30°	1068.4	1065.4	1074.1	1067.1	<i>1089.6</i>
35°	982.8	962.1	970.6	993.8	<i>1028.4</i>
40°	881.5	871.9	875.2	927.9	<i>962.1</i>
45°	752.1	756.5	783.5	865.0	<i>922.2</i>
50°	637.0	653.6	693.9	794.6	<i>858.0</i>
55°	548.0	534.5	597.1	684.8	<i>735.6</i>
60°	418.4	417.5	479.1	520.8	<i>536.7</i>
65°	303.0	315.6	350.0	378.4	<i>388.6</i>
70°	211.4	222.1	225.7	239.6	<i>237.7</i>
75°	145.6	147.3	143.1	146.2	<i>147.6</i>
80°	85.2	86.3	84.5	82.6	<i>81.8</i>
85°	39.3	35.5	29.3	29.4	<i>28.8</i>
90°	7.6	3.2	1.3	1.0	<i>1.2</i>
95°	47.3	34.6	23.6	13.3	<i>9.7</i>
100°	77.6	87.5	61.8	49.2	<i>35.3</i>
105°	100.2	124.5	98.8	84.2	<i>63.7</i>
110°	114.2	146.2	133.1	113.0	<i>96.9</i>
115°	130.3	158.6	157.0	138.6	<i>122.4</i>
120°	138.6	171.9	174.2	161.4	<i>141.0</i>
125°	142.8	178.7	187.0	168.4	<i>165.7</i>
130°	153.6	174.7	194.3	176.6	<i>171.4</i>
135°	155.4	171.2	201.7	187.0	<i>175.4</i>
140°	165.4	177.6	188.7	190.1	<i>177.3</i>
145°	154.3	173.4	180.2	178.8	<i>175.7</i>
150°	168.8	175.8	171.2	172.9	<i>166.1</i>
155°	169.8	173.0	166.8	170.8	<i>161.3</i>
160°	169.1	161.5	163.8	168.3	<i>157.0</i>
165°	167.6	165.8	162.3	164.8	<i>141.2</i>
170°	166.2	169.7	165.0	156.1	<i>161.1</i>
175°	168.0	153.8	164.7	152.7	<i>168.6</i>
180°	134.9	134.9	134.9	134.9	<i>134.9</i>

(END OF REPORT)