

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: CTL58847

Luminaire Tested: **NB-SW-2T8-DL8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58847  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-2T8-DL8  
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**

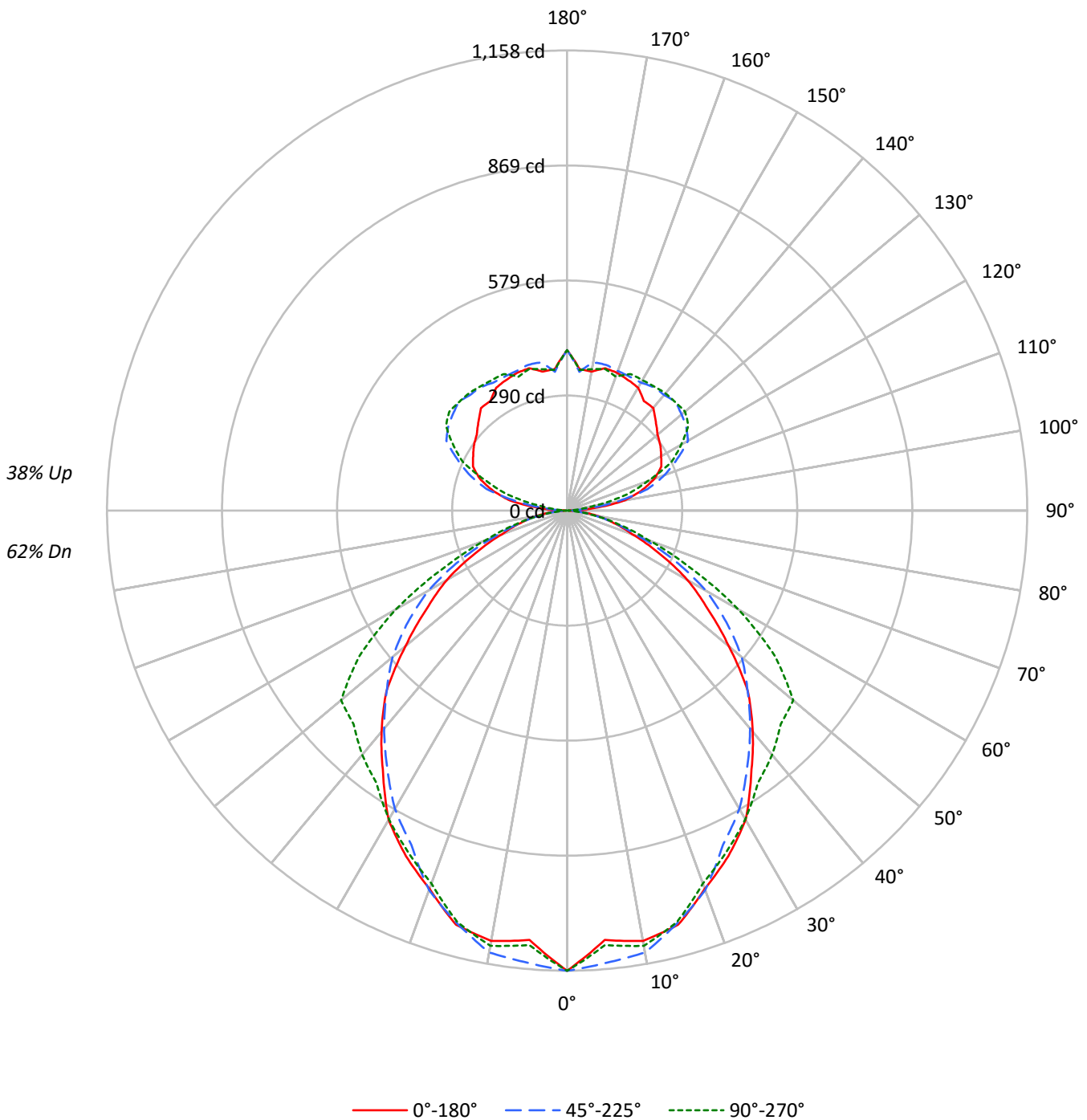
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4497.3 lumens  
Efficiency: 77.5%  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: CTL58847  
CATALOG NUMBER: NB-SW-2T8-DL8

### Luminous Intensity Polar Plot





TEST NUMBER: CTL58847

CATALOG NUMBER: NB-SW-2T8-DL8

**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	85	85	85	85	80	80	80	80	70	70	70		61	61	61		52	52	52	48
1	78	75	72	69	73	70	68	65	62	60	58		54	52	51		47	46	45	41
2	71	66	61	57	67	62	58	54	54	51	48		48	45	43		41	39	38	35
3	65	58	52	48	61	54	49	45	48	44	41		42	39	37		37	34	32	30
4	60	51	45	40	56	48	43	39	43	38	35		38	34	31		33	30	28	25
5	55	46	39	35	51	43	37	33	38	34	30		34	30	27		30	27	24	22
6	51	41	35	30	47	39	33	29	35	30	26		31	27	24		27	24	22	20
7	47	37	31	27	44	35	30	26	31	27	23		28	24	21		25	22	19	17
8	44	34	28	24	41	32	27	23	29	24	21		26	22	19		23	20	17	15
9	41	31	25	21	38	29	24	20	26	22	19		24	20	17		21	18	16	14
10	38	28	23	19	36	27	22	18	24	20	17		22	18	16		19	16	14	13

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

	0°	45°	90°
0°	4155	4155	4155
5°	3886	4019	3845
10°	3965	3928	3836
15°	3945	3722	3665
20°	3785	3535	3416
25°	3695	3265	3266
30°	3599	3109	3137
35°	3394	2912	2995
40°	3241	2739	2964
45°	3080	2570	2923
50°	2767	2425	3003
55°	2485	2211	2740
60°	2276	1976	2297
65°	1925	1613	1734
70°	1579	1189	1223
75°	1378	861	848
80°	1175	569	496
85°	851	263	174



TEST NUMBER: CTL58847

CATALOG NUMBER: NB-SW-2T8-DL8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.2	2.4	1.9
10°-20°	302.9	6.7	5.2
20°-30°	437.1	9.7	7.5
30°-40°	507.4	11.3	8.7
40°-50°	517.0	11.5	8.9
50°-60°	456.3	10.1	7.9
60°-70°	298.3	6.6	5.1
70°-80°	137.9	3.1	2.4
80°-90°	34.7	0.8	0.6
90°-100°	55.9	1.2	1.0
100°-110°	203.5	4.5	3.5
110°-120°	292.8	6.5	5.0
120°-130°	314.0	7.0	5.4
130°-140°	286.1	6.4	4.9
140°-150°	234.1	5.2	4.0
150°-160°	171.0	3.8	2.9
160°-170°	104.9	2.3	1.8
170°-180°	35.2	0.8	0.6
0°-30°	848.2	18.9	14.6
0°-40°	1355.6	30.1	23.4
0°-60°	2328.9	51.8	40.2
0°-90°	2799.7	62.3	48.3
90°-120°	552.3	12.3	9.5
90°-150°	1386.4	30.8	23.9
90°-180°	1698.0	37.8	29.3
0°-180°	4497.3	100.0	77.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1085	1148	1142	1170	1097	105
15°	1079	1078	1074	1072	1071	302
25°	959	952	928	934	948	442
35°	807	819	790	806	837	507
45°	643	622	642	708	760	491
55°	431	435	489	597	638	390
65°	256	257	299	338	344	256
75°	122	124	124	128	134	131
85°	35	31	26	23	20	38
90°	6	3	2	2	1	15
95°	64	58	38	21	16	74
105°	193	243	210	162	154	202
115°	261	322	304	294	290	255
125°	286	344	366	372	372	256
135°	316	351	386	394	385	245
145°	337	358	379	397	381	215
155°	363	370	372	363	379	168
165°	371	380	380	360	369	104
175°	357	378	350	364	355	35
180°	404	404	404	404	404	



TEST NUMBER: CTL58847

CATALOG NUMBER: NB-SW-2T8-DL8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1158.1	1158.1	1158.1	1158.1	1158.1
5°	1084.6	1147.8	1142.1	1169.6	1097.4
10°	1099.8	1116.1	1129.1	1124.5	1112.3
15°	1079.2	1078.1	1074.1	1072.4	1071.0
20°	1012.9	1040.5	1016.2	1021.5	998.6
25°	959.4	952.1	927.9	933.7	947.8
30°	898.6	899.6	866.7	879.0	896.9
35°	807.4	819.2	789.6	805.6	836.7
40°	726.8	716.4	716.4	747.6	802.3
45°	643.3	622.5	642.2	708.2	760.0
50°	531.0	532.8	573.3	667.1	742.7
55°	431.2	434.8	488.7	597.1	637.8
60°	350.0	344.4	403.3	469.2	497.2
65°	255.8	256.8	299.2	338.2	344.2
70°	175.3	187.1	196.8	216.4	218.8
75°	121.6	124.2	124.2	128.4	134.0
80°	76.2	74.2	69.4	69.2	67.5
85°	34.8	30.9	26.0	22.8	19.6
90°	6.1	3.4	2.2	1.6	1.4
95°	64.3	58.2	37.6	21.1	15.8
100°	145.3	176.6	123.6	89.8	69.2
105°	193.2	243.0	209.6	162.4	154.5
110°	233.4	289.7	260.4	234.8	215.0
115°	261.2	322.4	304.4	294.2	289.6
120°	273.1	334.1	351.1	337.3	331.2
125°	286.4	343.9	365.8	372.2	372.4
130°	296.9	350.4	375.7	388.6	387.3
135°	315.5	350.8	386.4	394.2	385.4
140°	337.1	352.0	379.8	398.3	385.2
145°	336.6	358.1	379.2	397.0	381.2
150°	357.0	366.7	371.7	377.4	378.9
155°	362.6	369.9	371.8	363.3	379.1
160°	368.6	367.6	373.3	370.1	358.4
165°	370.6	380.3	379.6	359.8	369.0
170°	355.0	370.2	378.8	360.0	361.2
175°	357.2	377.7	350.5	363.8	355.0
180°	403.8	403.8	403.8	403.8	403.8

(END OF REPORT)