

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: CTL58898

Luminaire Tested: **NB-SW-3T8-XUX-2 OUTBOARD ONLY**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58898  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-XUX-2 OUTBOARD 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 (2 lamps)  
Luminaire Lumens: 4930.5 lumens  
Efficiency: 85.0%  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Indirect

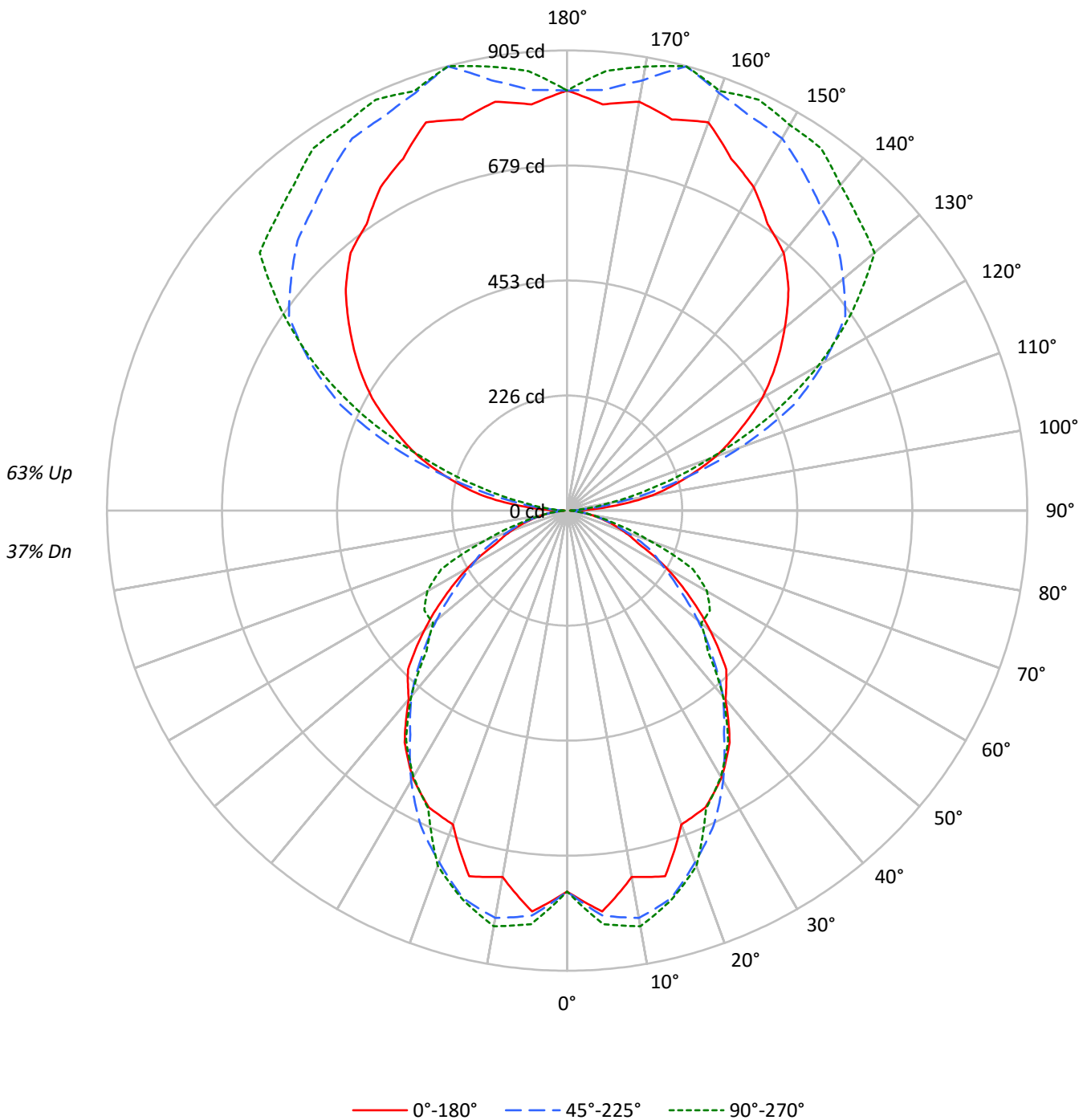
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: CTL58898

CATALOG NUMBER: NB-SW-3T8-XUX-2 OUTBOARD ONLY

### Luminous Intensity Polar Plot





TEST NUMBER: CTL58898

CATALOG NUMBER: NB-SW-3T8-XUX-2 OUTBOARD ONLY

**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	89	89	89	89	80	80	80	80	65	65	65	51	51	51	38	38	38	32
1	81	77	74	71	73	70	68	65	57	55	54	45	44	43	34	33	32	27
2	74	68	63	59	67	62	57	54	50	47	45	40	38	36	30	29	27	23
3	67	60	54	49	61	54	49	45	44	41	38	35	33	31	27	25	24	20
4	62	53	46	42	56	48	43	38	40	35	32	31	29	26	24	22	20	17
5	57	47	41	36	51	43	37	33	35	31	28	28	25	23	22	20	18	15
6	52	42	36	31	47	39	33	29	32	28	24	26	22	20	20	18	16	13
7	48	38	32	27	44	35	29	25	29	25	21	23	20	18	18	16	14	12
8	45	35	28	24	41	32	26	22	26	22	19	21	18	16	17	14	13	11
9	42	32	25	21	38	29	24	20	24	20	17	20	17	14	15	13	12	10
10	39	29	23	19	35	27	21	18	22	18	15	18	15	13	14	12	11	9

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

	0°	45°	90°
0°	2688	2688	2688
5°	2836	2814	2860
10°	2638	2830	2863
15°	2722	2736	2712
20°	2455	2560	2543
25°	2479	2402	2227
30°	2430	2202	2114
35°	2342	1983	1977
40°	2161	1822	1762
45°	2119	1615	1504
50°	1913	1418	1391
55°	1687	1215	1473
60°	1462	1061	1467
65°	1173	959	1377
70°	1056	760	956
75°	886	575	596
80°	694	375	359
85°	484	171	135



TEST NUMBER: CTL58898

CATALOG NUMBER: NB-SW-3T8-XUX-2 OUTBOARD ONLY

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	75.2	1.5	1.3
10°-20°	218.0	4.4	3.8
20°-30°	309.8	6.3	5.3
30°-40°	344.3	7.0	5.9
40°-50°	318.1	6.5	5.5
50°-60°	264.3	5.4	4.6
60°-70°	193.0	3.9	3.3
70°-80°	92.5	1.9	1.6
80°-90°	22.7	0.5	0.4
90°-100°	58.9	1.2	1.0
100°-110°	240.8	4.9	4.2
110°-120°	444.5	9.0	7.7
120°-130°	562.0	11.4	9.7
130°-140°	569.3	11.5	9.8
140°-150°	500.5	10.2	8.6
150°-160°	390.5	7.9	6.7
160°-170°	245.1	5.0	4.2
170°-180°	80.8	1.6	1.4
0°-30°	603.0	12.2	10.4
0°-40°	947.3	19.2	16.3
0°-60°	1529.8	31.0	26.4
0°-90°	1838.0	37.3	31.7
90°-120°	744.3	15.1	12.8
90°-150°	2376.1	48.2	41.0
90°-180°	3092.0	62.7	53.3
0°-180°	4930.5	100.0	85.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	792	769	800	777	816	73
15°	745	762	790	796	792	203
25°	644	695	683	666	646	295
35°	557	575	538	537	552	345
45°	443	433	404	387	391	335
55°	293	290	269	301	343	263
65°	156	156	178	242	273	162
75°	78	80	83	86	94	84
85°	20	19	17	15	15	22
90°	6	4	3	2	2	15
95°	80	58	35	30	27	86
105°	237	276	228	188	176	251
115°	374	456	491	459	442	372
125°	502	575	668	699	685	449
135°	616	688	750	814	811	474
145°	688	764	811	830	870	435
155°	764	822	854	876	891	355
165°	796	850	904	891	905	228
175°	802	860	830	868	867	77
180°	826	826	826	826	826	



TEST NUMBER: CTL58898

CATALOG NUMBER: NB-SW-3T8-XUX-2 OUTBOARD ONLY

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	749.2	749.2	749.2	749.2	749.2
5°	791.5	769.2	799.6	777.0	816.4
10°	731.7	779.4	813.5	831.9	830.1
15°	744.6	762.5	789.6	795.8	792.5
20°	657.0	742.2	735.8	737.5	743.5
25°	643.7	694.6	682.6	666.4	646.4
30°	606.9	632.0	613.7	605.9	604.4
35°	557.0	574.7	537.8	537.0	552.2
40°	484.5	505.6	476.5	474.1	477.1
45°	442.6	433.4	403.5	386.6	391.1
50°	367.1	360.9	335.2	326.8	344.0
55°	292.7	290.4	268.6	301.1	342.8
60°	224.8	228.9	216.5	275.4	317.6
65°	155.9	155.9	178.0	241.5	273.2
70°	117.2	115.7	125.8	162.4	171.1
75°	78.2	80.0	83.0	86.2	94.3
80°	45.0	44.6	45.8	47.6	48.9
85°	19.8	18.7	16.9	15.0	15.2
90°	5.8	3.9	2.9	2.1	2.2
95°	79.8	57.9	35.4	30.4	27.3
100°	168.0	169.4	116.1	88.8	81.0
105°	236.7	276.2	227.8	187.8	176.2
110°	310.6	377.6	362.2	313.1	297.2
115°	374.3	455.5	491.3	459.2	441.5
120°	443.1	517.4	583.1	590.7	570.9
125°	501.9	574.7	667.9	698.8	685.4
130°	558.5	626.7	708.6	762.6	789.2
135°	615.7	688.1	750.1	813.6	810.6
140°	662.2	729.4	777.1	817.9	836.2
145°	687.5	763.6	811.4	829.9	870.1
150°	734.1	806.4	845.2	864.8	875.6
155°	763.5	821.8	854.5	875.5	891.4
160°	812.4	819.1	873.8	892.5	878.0
165°	796.4	850.4	904.3	890.6	904.6
170°	816.3	830.5	859.2	864.9	886.6
175°	801.7	860.1	830.1	867.6	867.4
180°	825.9	825.9	825.9	825.9	825.9

(END OF REPORT)