

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: CTL58892

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58892  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-DXD-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: 2875.3 lumens  
Efficiency: 49.6%  
Efficacy: 36.9 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1 / 1.13  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Direct

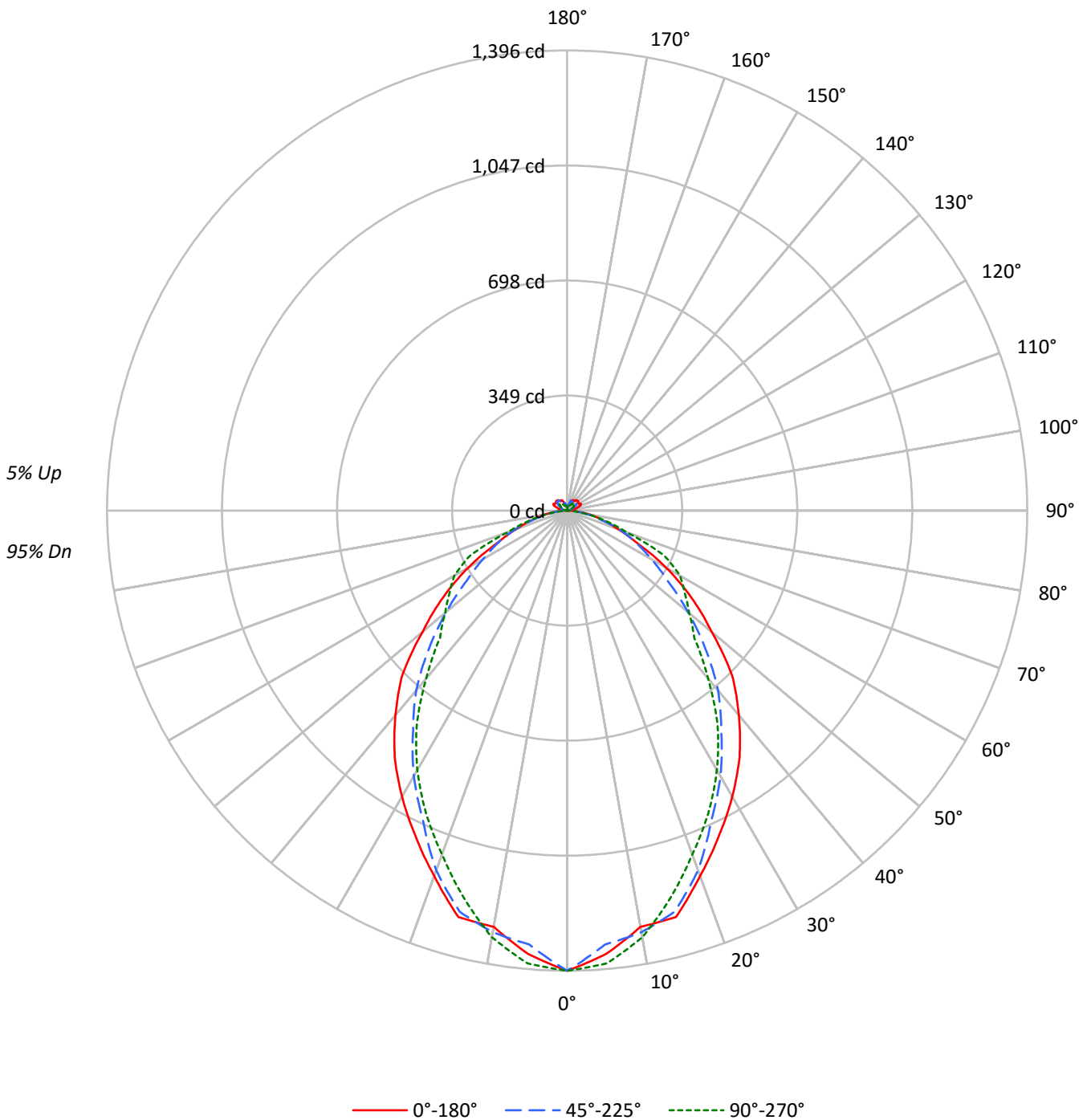
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	58	58	58	58	57	57	57	57	54	54	54	51	51	51	48	48	48	47
1	54	52	50	48	52	50	49	47	48	47	45	46	44	43	43	43	42	41
2	50	46	43	40	48	45	42	40	43	40	38	41	39	37	39	37	36	35
3	46	41	37	34	44	40	36	34	38	35	33	36	34	32	35	33	31	30
4	42	37	33	30	41	36	32	29	34	31	29	33	30	28	32	29	27	26
5	39	33	29	26	38	32	28	26	31	28	25	30	27	25	29	26	24	23
6	36	30	26	23	35	29	25	23	28	25	22	27	24	22	26	24	22	21
7	34	27	23	20	33	27	23	20	26	22	20	25	22	20	24	21	19	18
8	31	25	21	18	31	25	21	18	24	20	18	23	20	18	22	20	18	17
9	29	23	19	17	29	23	19	17	22	19	16	21	18	16	21	18	16	15
10	28	21	18	15	27	21	18	15	20	17	15	20	17	15	19	17	15	14

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

	0°	45°	90°
0°	5009	5009	5009
5°	4838	4650	4831
10°	4623	4518	4534
15°	4666	4366	4157
20°	4408	4040	3798
25°	4195	3645	3492
30°	4013	3338	3179
35°	3834	3005	2849
40°	3613	2724	2456
45°	3392	2376	2097
50°	2980	2021	1953
55°	2652	1684	1869
60°	2256	1444	1829
65°	1767	1244	1645
70°	1467	1029	1068
75°	1251	716	751
80°	1070	482	424
85°	731	252	157



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	127.7	4.4	2.2
10°-20°	349.7	12.2	6.0
20°-30°	483.1	16.8	8.3
30°-40°	522.6	18.2	9.0
40°-50°	469.4	16.3	8.1
50°-60°	370.1	12.9	6.4
60°-70°	253.4	8.8	4.4
70°-80°	120.4	4.2	2.1
80°-90°	30.2	1.1	0.5
90°-100°	5.0	0.2	0.1
100°-110°	15.8	0.6	0.3
110°-120°	26.7	0.9	0.5
120°-130°	30.7	1.1	0.5
130°-140°	29.2	1.0	0.5
140°-150°	21.2	0.7	0.4
150°-160°	13.2	0.5	0.2
160°-170°	5.8	0.2	0.1
170°-180°	1.0	0.0	0.0
0°-30°	960.6	33.4	16.6
0°-40°	1483.2	51.6	25.6
0°-60°	2322.7	80.8	40.0
0°-90°	2726.7	94.8	47.0
90°-120°	47.6	1.7	0.8
90°-150°	128.6	4.5	2.2
90°-180°	149.0	5.2	2.6
0°-180°	2875.3	100.0	49.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1350	1332	1321	1356	1379	127
15°	1276	1239	1260	1234	1215	354
25°	1089	1103	1036	1003	1013	503
35°	912	891	815	795	796	569
45°	708	653	594	552	545	540
55°	460	422	372	406	435	411
65°	235	223	231	295	326	242
75°	110	104	103	114	119	120
85°	30	26	25	20	18	33
90°	3	1	1	0	0	6
95°	10	6	3	2	2	11
105°	30	20	11	9	8	32
115°	47	38	22	20	16	44
125°	40	41	34	29	25	37
135°	43	46	38	30	28	33
145°	34	39	35	29	23	23
155°	32	36	31	26	16	15
165°	20	24	20	21	16	6
175°	6	12	10	8	8	1
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.1	1396.1	1396.1	1396.1	1396.1
5°	1350.4	1331.6	1321.3	1356.1	1378.8
10°	1282.4	1309.4	1298.8	1334.8	1314.4
15°	1276.2	1238.9	1259.9	1233.6	1214.8
20°	1179.6	1198.3	1161.3	1136.6	1110.2
25°	1089.2	1103.0	1035.7	1003.3	1013.3
30°	1002.2	975.5	930.3	894.6	908.8
35°	912.0	891.1	815.0	795.2	796.0
40°	810.1	775.4	712.4	672.8	664.9
45°	708.5	652.7	593.7	552.0	545.2
50°	572.0	534.6	477.8	448.6	483.0
55°	460.2	422.0	372.4	406.5	435.0
60°	347.0	320.0	294.6	348.9	395.8
65°	234.9	223.0	230.7	294.6	326.4
70°	162.9	157.6	170.3	199.0	191.2
75°	110.4	103.9	103.3	113.6	118.8
80°	69.4	66.6	58.8	62.4	57.7
85°	29.9	25.7	24.9	20.3	17.7
90°	2.6	1.3	0.6	0.3	0.4
95°	10.1	5.6	3.0	1.7	1.6
100°	20.0	12.5	6.6	6.6	4.8
105°	30.5	19.7	10.7	8.7	7.5
110°	40.2	30.1	16.9	13.0	11.4
115°	46.8	37.8	21.7	20.5	16.3
120°	41.9	39.3	28.5	22.5	22.2
125°	40.1	41.4	34.2	28.8	25.0
130°	43.9	44.4	39.4	31.3	30.7
135°	43.1	45.6	38.5	30.4	28.4
140°	41.2	43.0	39.3	32.9	26.8
145°	34.3	39.3	35.1	29.0	23.4
150°	36.9	36.5	29.8	29.2	19.9
155°	32.5	36.3	30.6	25.6	15.6
160°	23.1	25.0	33.0	17.8	15.9
165°	20.1	24.2	19.6	21.4	16.1
170°	13.6	15.1	17.9	12.6	17.2
175°	5.9	12.2	10.0	8.4	7.7
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)