

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: CTL58886

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58886  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-DUD-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: 2721.0 lumens  
Efficiency: 46.9%  
Efficacy: 34.9 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 0.97 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Direct

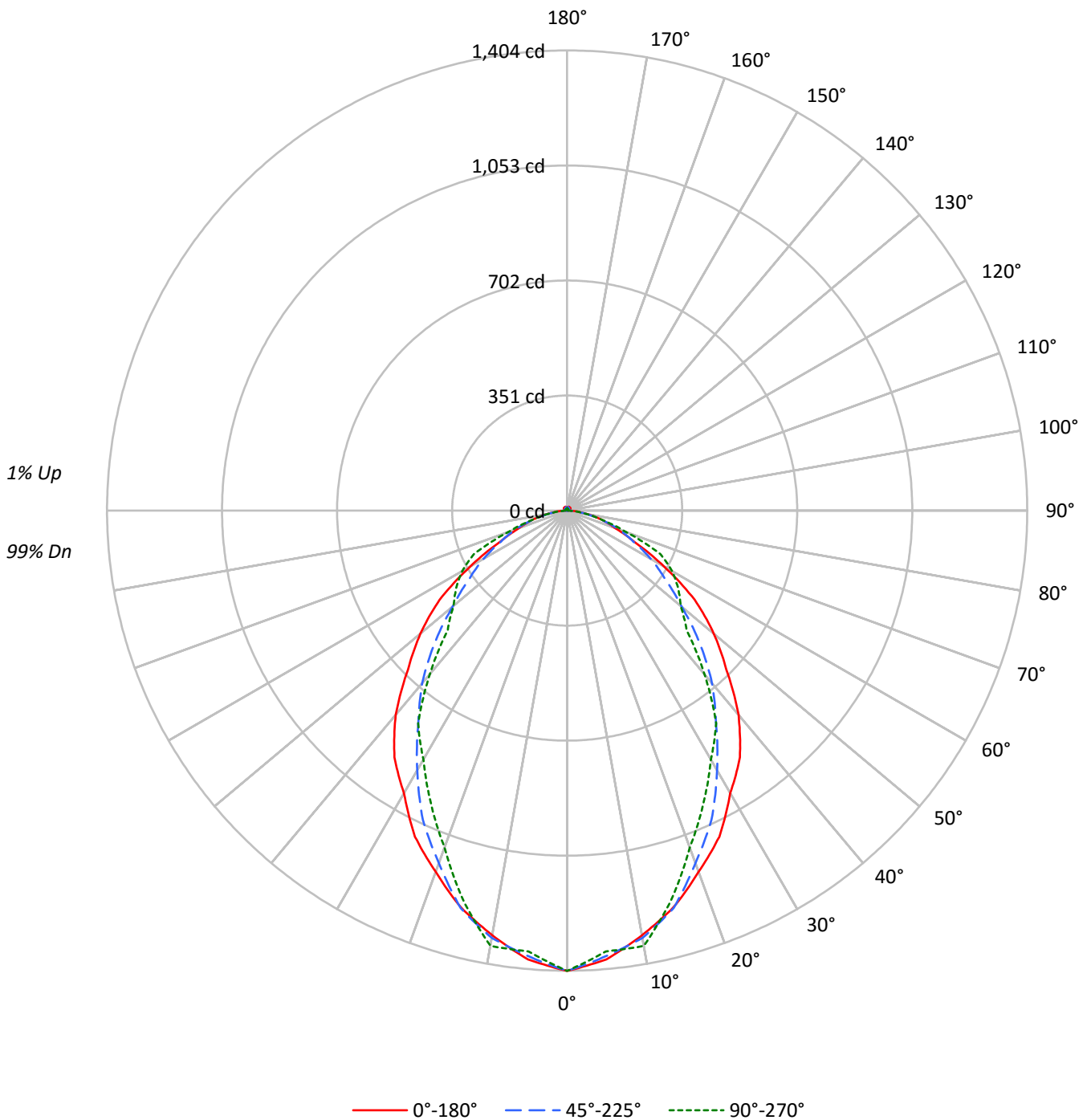
Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	56	56	56	56	54	54	54	54	52	52	52	49	49	49	47	47	47	46
1	51	50	48	46	50	48	47	45	46	45	44	44	43	42	43	42	41	40
2	47	44	41	39	46	43	40	38	41	39	37	40	38	36	38	37	35	34
3	44	39	36	33	42	38	35	32	37	34	32	35	33	31	34	32	31	30
4	40	35	31	28	39	34	31	28	33	30	28	32	29	27	31	29	27	26
5	37	32	28	25	36	31	27	25	30	27	24	29	26	24	28	26	24	23
6	35	29	25	22	34	28	25	22	27	24	22	27	24	21	26	23	21	20
7	32	26	22	20	31	26	22	20	25	22	19	24	21	19	24	21	19	18
8	30	24	20	18	29	24	20	18	23	20	18	23	20	17	22	19	17	16
9	28	22	19	16	28	22	19	16	21	18	16	21	18	16	20	18	16	15
10	27	21	17	15	26	20	17	15	20	17	15	19	17	15	19	16	15	14

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

	0°	45°	90°
0°	5039	5039	5039
5°	4925	4802	4730
10°	4743	4605	4651
15°	4582	4352	4206
20°	4383	3981	3742
25°	4230	3666	3391
30°	3987	3281	3068
35°	3863	2920	2838
40°	3628	2630	2407
45°	3288	2288	1981
50°	3044	1927	1829
55°	2737	1653	1776
60°	2220	1442	1710
65°	1694	1197	1580
70°	1405	1007	1067
75°	1244	741	696
80°	941	484	438
85°	736	214	155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	127.5	4.7	2.2
10°-20°	348.2	12.8	6.0
20°-30°	480.9	17.7	8.3
30°-40°	515.7	19.0	8.9
40°-50°	455.9	16.8	7.9
50°-60°	361.9	13.3	6.2
60°-70°	245.6	9.0	4.2
70°-80°	118.4	4.4	2.0
80°-90°	29.1	1.1	0.5
90°-100°	2.0	0.1	0.0
100°-110°	4.3	0.2	0.1
110°-120°	6.1	0.2	0.1
120°-130°	6.6	0.2	0.1
130°-140°	6.6	0.2	0.1
140°-150°	5.4	0.2	0.1
150°-160°	3.8	0.1	0.1
160°-170°	2.4	0.1	0.0
170°-180°	0.6	0.0	0.0
0°-30°	956.6	35.2	16.5
0°-40°	1472.3	54.1	25.4
0°-60°	2290.1	84.2	39.5
0°-90°	2683.2	98.6	46.3
90°-120°	12.4	0.5	0.2
90°-150°	31.0	1.1	0.5
90°-180°	38.0	1.4	0.7
0°-180°	2721.0	100.0	46.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1374	1290	1365	1345	1350	129
15°	1253	1234	1256	1222	1229	352
25°	1098	1098	1042	991	984	503
35°	919	881	792	775	793	571
45°	687	641	572	520	515	535
55°	475	418	365	384	414	419
65°	225	219	222	283	314	234
75°	110	105	107	113	110	115
85°	30	26	21	20	18	31
90°	2	1	0	0	0	5
95°	4	3	1	1	0	4
105°	7	6	4	3	2	7
115°	10	7	6	5	4	9
125°	10	9	8	6	3	9
135°	12	10	8	7	6	10
145°	12	12	9	7	4	8
155°	12	11	8	4	4	5
165°	11	8	9	10	5	3
175°	6	6	4	6	7	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1404.5	1404.5	1404.5	1404.5	1404.5
5°	1374.5	1290.1	1364.6	1344.8	1350.0
10°	1315.7	1286.6	1323.8	1285.6	1348.6
15°	1253.4	1234.0	1255.7	1222.4	1229.1
20°	1173.0	1204.5	1144.4	1137.5	1094.0
25°	1098.2	1098.1	1041.8	991.3	984.2
30°	995.5	993.6	914.5	895.4	877.0
35°	918.8	881.3	791.7	775.0	792.8
40°	813.5	768.4	687.8	654.1	651.7
45°	686.8	641.0	571.8	519.9	515.2
50°	584.3	534.9	455.5	439.6	452.3
55°	474.9	417.8	365.4	384.4	413.5
60°	341.4	313.1	294.3	339.0	370.0
65°	225.2	218.6	222.0	283.1	313.6
70°	156.0	152.7	166.7	190.6	191.0
75°	109.8	104.6	107.0	112.9	110.0
80°	61.0	63.7	59.0	60.1	59.6
85°	30.1	26.2	21.1	19.5	17.5
90°	2.0	1.3	0.5	0.2	0.0
95°	3.9	3.0	1.0	0.8	0.3
100°	6.3	4.6	2.8	1.6	0.8
105°	6.6	5.5	3.8	2.6	1.9
110°	7.2	6.9	4.7	3.4	3.2
115°	9.7	6.7	6.0	5.4	3.6
120°	9.7	8.6	7.8	5.6	3.2
125°	9.8	8.8	8.3	5.5	3.2
130°	12.9	7.6	7.9	6.8	5.9
135°	12.0	10.4	8.3	7.3	5.7
140°	13.0	11.6	7.7	6.2	4.3
145°	11.8	11.5	8.6	7.2	3.9
150°	11.3	10.6	8.5	6.3	5.3
155°	11.8	11.3	7.9	4.2	4.4
160°	12.6	12.7	10.7	4.1	4.1
165°	11.3	8.5	8.6	10.2	5.0
170°	6.8	8.2	7.8	4.8	7.2
175°	6.2	5.9	3.9	6.4	6.7
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)