

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: CTL58885

Luminaire Tested: **NB-SW-3T8-DUD-1 INBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58885
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DUD-1 INBOARD 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 (1 lamp)
Luminaire Lumens: 1788.5 lumens
Efficiency: 61.7%
Efficacy: 45.9 lumens/watt
Spacing Criteria (0/90/45): 1.46 / 1.15 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Indirect

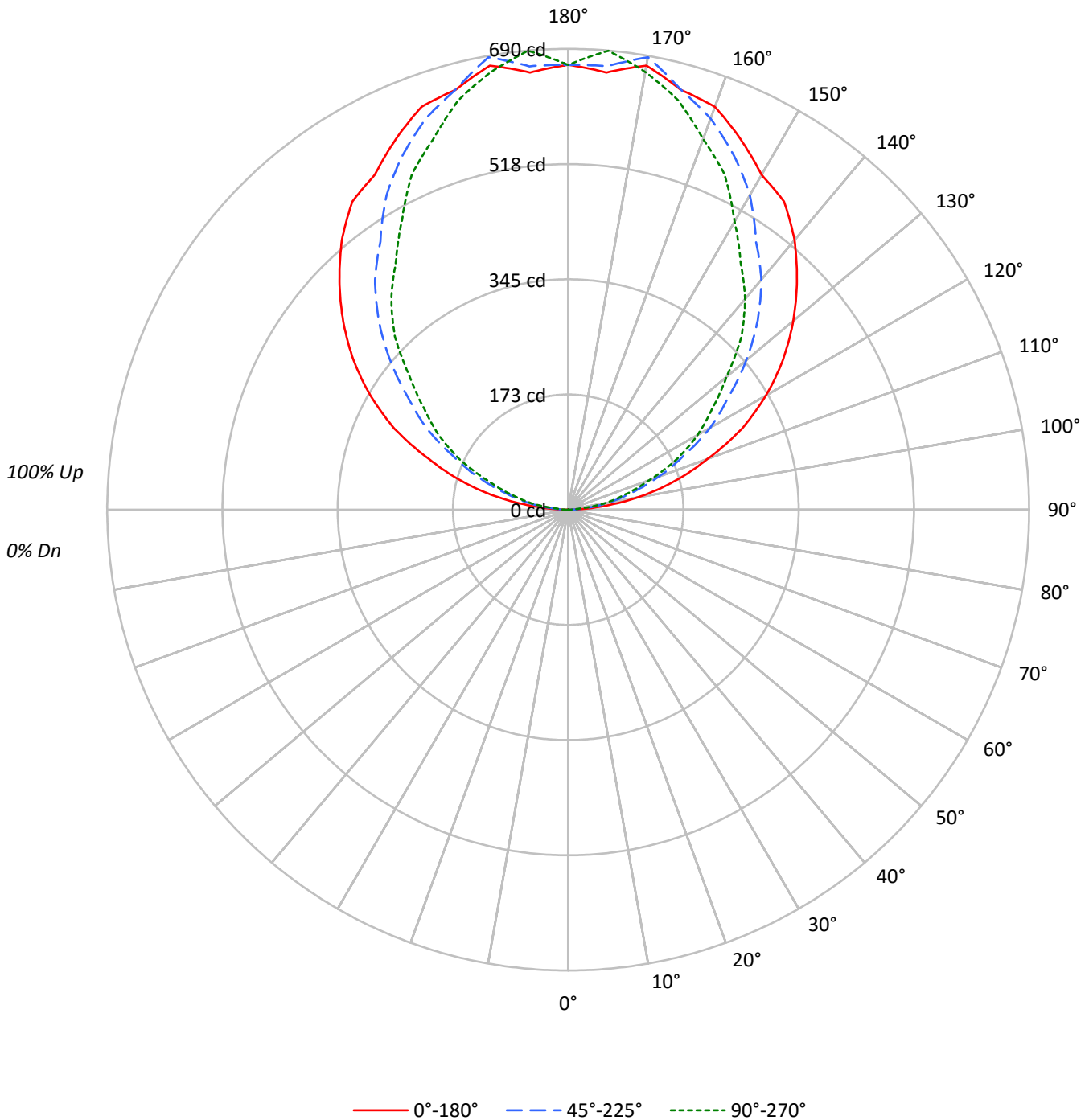
Input Watts (W): 39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: CTL58885

CATALOG NUMBER: NB-SW-3T8-DUD-1 INBOARD ONLY

Luminous Intensity Polar Plot





TEST NUMBER: CTL58885

CATALOG NUMBER: NB-SW-3T8-DUD-1 INBOARD 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	59	59	59	59	50	50	50	50	34	34	34	20	20	20	6	6	6	0
1	53	51	49	47	46	44	42	40	30	29	28	17	17	16	6	5	5	0
2	49	44	41	38	41	38	35	33	26	24	23	15	14	13	5	5	4	0
3	44	39	35	32	38	33	30	27	23	21	19	13	12	11	4	4	4	0
4	40	34	30	26	34	29	26	23	20	18	16	12	11	10	4	3	3	0
5	37	30	26	22	31	26	22	20	18	16	14	10	9	8	3	3	3	0
6	34	27	22	19	29	23	19	17	16	14	12	9	8	7	3	3	2	0
7	31	24	20	17	26	21	17	14	14	12	10	8	7	6	3	2	2	0
8	29	22	17	14	24	19	15	13	13	11	9	8	6	5	2	2	2	0
9	27	20	15	13	23	17	13	11	12	9	8	7	6	5	2	2	2	0
10	25	18	14	11	21	15	12	10	11	8	7	6	5	4	2	2	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1	1	1
5°	0	2	2
10°	1	1	1
15°	1	2	2
20°	0	1	1
25°	1	1	2
30°	2	1	1
35°	2	1	1
40°	1	1	1
45°	2	1	1
50°	2	1	1
55°	1	1	0
60°	0	1	1
65°	1	1	0
70°	1	0	1
75°	0	1	1
80°	0	0	0
85°	2	0	0



TEST NUMBER: CTL58885

CATALOG NUMBER: NB-SW-3T8-DUD-1 INBOARD ONLY

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.1	0.0	0.0
20°-30°	0.2	0.0	0.0
30°-40°	0.2	0.0	0.0
40°-50°	0.2	0.0	0.0
50°-60°	0.2	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.2	0.0	0.0
90°-100°	32.5	1.8	1.1
100°-110°	118.4	6.6	4.1
110°-120°	207.2	11.6	7.1
120°-130°	278.8	15.6	9.6
130°-140°	318.0	17.8	11.0
140°-150°	314.3	17.6	10.8
150°-160°	270.7	15.1	9.3
160°-170°	183.0	10.2	6.3
170°-180°	64.4	3.6	2.2
0°-30°	0.3	0.0	0.0
0°-40°	0.5	0.0	0.0
0°-60°	0.9	0.1	0.0
0°-90°	1.3	0.1	0.0
90°-120°	358.1	20.0	12.3
90°-150°	1269.1	71.0	43.8
90°-180°	1787.0	99.9	61.6
0°-180°	1788.5	100.0	61.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	1	0	1	0
15°	0	1	0	0	0	0
25°	0	0	0	0	1	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	3	1	0	0	0	7
95°	43	32	23	17	14	52
105°	165	125	98	95	89	173
115°	287	233	190	177	180	281
125°	393	354	292	270	263	351
135°	484	458	401	367	367	374
145°	563	546	490	463	450	350
155°	612	628	586	565	554	282
165°	651	659	651	632	635	185
175°	657	685	666	678	690	63
180°	666	666	666	666	666	



TEST NUMBER: CTL58885

CATALOG NUMBER: NB-SW-3T8-DUD-1 INBOARD ONLY

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.4	0.4	0.4	0.4	0.4
5°	0.0	0.2	0.6	0.5	0.6
10°	0.2	0.2	0.4	0.1	0.2
15°	0.3	0.9	0.5	0.2	0.5
20°	0.1	0.4	0.2	0.4	0.3
25°	0.3	0.4	0.4	0.3	0.6
30°	0.5	0.3	0.4	0.3	0.3
35°	0.4	0.5	0.3	0.2	0.3
40°	0.3	0.3	0.2	0.3	0.2
45°	0.5	0.3	0.2	0.3	0.2
50°	0.4	0.4	0.2	0.2	0.2
55°	0.2	0.3	0.2	0.1	0.1
60°	0.0	0.4	0.2	0.2	0.2
65°	0.1	0.1	0.1	0.1	0.0
70°	0.1	0.0	0.0	0.0	0.1
75°	0.0	0.0	0.1	0.0	0.1
80°	0.0	0.1	0.0	0.0	0.0
85°	0.1	0.0	0.0	0.0	0.0
90°	2.9	1.4	0.1	0.1	0.1
95°	42.7	31.6	22.7	16.8	14.2
100°	105.6	75.3	62.1	57.1	55.7
105°	164.6	124.6	98.3	94.6	88.8
110°	221.5	176.9	143.8	135.1	129.5
115°	286.6	233.0	190.4	177.0	179.8
120°	341.8	295.5	245.2	226.3	223.7
125°	392.8	353.8	292.2	269.9	262.6
130°	439.8	405.9	347.9	318.4	309.3
135°	484.2	458.3	401.2	367.1	366.7
140°	527.0	500.7	449.8	416.9	411.9
145°	563.2	546.2	490.2	463.0	450.1
150°	579.0	586.1	543.9	507.7	498.2
155°	611.6	628.3	586.0	564.9	554.0
160°	642.0	642.1	623.1	604.7	590.4
165°	651.0	659.3	651.1	631.9	634.9
170°	675.3	665.5	687.9	684.4	665.5
175°	657.2	684.8	666.5	678.0	689.8
180°	666.2	666.2	666.2	666.2	666.2

(END OF REPORT)