

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: CTL58871

Luminaire Tested: **NB-SW-3T5-XUX-1 INBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58871
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-XUX-1 INBOARD ONLY
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 3255.9 lumens
Efficiency: 65.1%
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Indirect

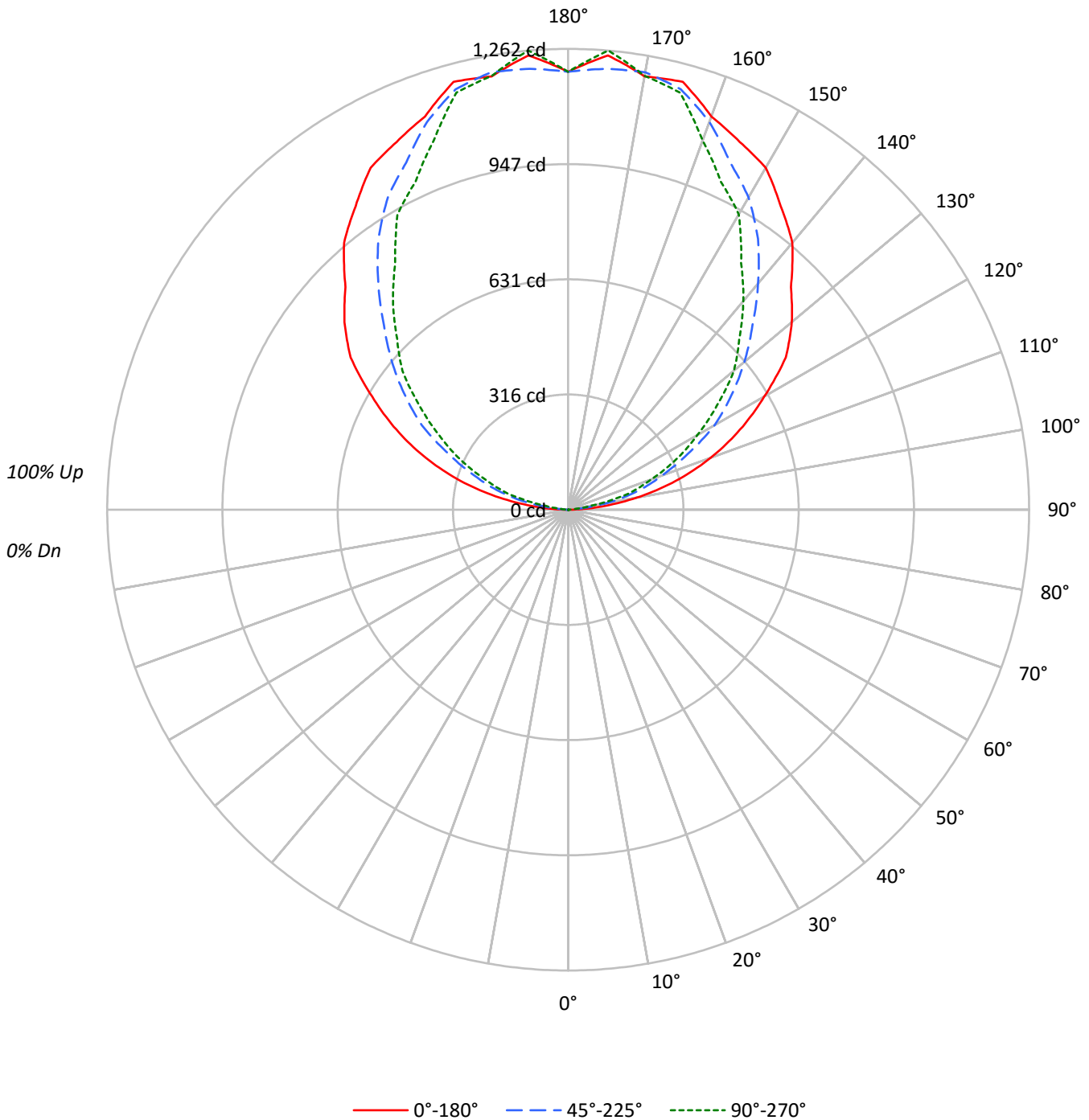
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	62	62	62	53	53	53	53	36	36	36	21	21	21	7	7	7	0
1	56	54	51	49	48	46	44	42	31	30	29	18	18	17	6	6	6	0
2	51	47	43	40	44	40	37	35	28	26	24	16	15	14	5	5	5	0
3	47	41	37	33	40	35	32	29	24	22	20	14	13	12	5	4	4	0
4	43	36	32	28	36	31	27	24	21	19	17	12	11	10	4	4	3	0
5	39	32	27	24	33	28	24	21	19	16	15	11	10	9	4	3	3	0
6	36	29	24	20	30	25	21	18	17	14	12	10	8	7	3	3	2	0
7	33	26	21	17	28	22	18	15	15	13	11	9	7	6	3	2	2	0
8	30	23	18	15	26	20	16	13	14	11	9	8	7	6	3	2	2	0
9	28	21	16	13	24	18	14	12	12	10	8	7	6	5	2	2	2	0
10	26	19	15	12	22	16	13	10	11	9	7	7	5	4	2	2	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	1	0	1
20°	0	0	1
25°	1	2	2
30°	0	1	1
35°	1	3	0
40°	0	1	1
45°	0	2	0
50°	1	1	2
55°	2	2	3
60°	2	1	7
65°	2	2	4
70°	1	2	1
75°	1	1	1
80°	2	2	1
85°	2	0	1



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.1	0.0	0.0
30°-40°	0.2	0.0	0.0
40°-50°	0.2	0.0	0.0
50°-60°	0.4	0.0	0.0
60°-70°	0.5	0.0	0.0
70°-80°	0.2	0.0	0.0
80°-90°	0.4	0.0	0.0
90°-100°	47.2	1.5	0.9
100°-110°	221.7	6.8	4.4
110°-120°	386.0	11.9	7.7
120°-130°	512.9	15.8	10.3
130°-140°	576.5	17.7	11.5
140°-150°	573.9	17.6	11.5
150°-160°	488.8	15.0	9.8
160°-170°	331.0	10.2	6.6
170°-180°	115.9	3.6	2.3
0°-30°	0.2	0.0	0.0
0°-40°	0.3	0.0	0.0
0°-60°	0.9	0.0	0.0
0°-90°	2.0	0.1	0.0
90°-120°	655.0	20.1	13.1
90°-150°	2318.3	71.2	46.4
90°-180°	3254.0	99.9	65.1
0°-180°	3255.9	100.0	65.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	1	0	0
15°	0	0	0	0	0	0
25°	0	0	1	0	0	0
35°	0	0	1	0	0	0
45°	0	0	1	0	0	0
55°	0	0	0	0	1	0
65°	0	0	0	1	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	6	1	0	0	0	13
95°	80	51	14	2	3	96
105°	305	236	196	182	172	321
115°	519	441	360	334	326	514
125°	727	632	545	497	497	643
135°	862	832	713	664	662	672
145°	1015	1004	906	842	826	637
155°	1111	1116	1049	1017	990	514
165°	1213	1177	1192	1155	1182	338
175°	1249	1207	1212	1250	1262	117
180°	1199	1199	1199	1199	1199	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.6	0.0
10°	0.0	0.2	0.0	0.2	0.0
15°	0.4	0.1	0.1	0.2	0.3
20°	0.0	0.1	0.1	0.0	0.2
25°	0.2	0.1	0.6	0.1	0.5
30°	0.1	0.2	0.3	0.2	0.2
35°	0.3	0.1	0.7	0.3	0.1
40°	0.1	0.2	0.3	0.4	0.4
45°	0.1	0.3	0.6	0.2	0.1
50°	0.2	0.3	0.3	0.2	0.4
55°	0.4	0.2	0.4	0.4	0.8
60°	0.3	0.3	0.3	1.0	1.5
65°	0.3	0.2	0.4	1.2	0.8
70°	0.1	0.1	0.3	0.2	0.2
75°	0.1	0.2	0.2	0.2	0.1
80°	0.1	0.1	0.3	0.1	0.1
85°	0.1	0.0	0.0	0.1	0.1
90°	5.9	0.8	0.4	0.3	0.4
95°	80.1	50.6	14.3	2.4	2.8
100°	190.9	144.8	113.6	84.1	68.7
105°	304.9	235.9	196.1	182.0	171.7
110°	415.2	334.1	272.7	250.3	241.0
115°	519.3	440.6	360.4	334.5	326.4
120°	619.9	543.4	462.2	416.1	408.4
125°	726.9	632.0	545.0	497.0	497.2
130°	799.3	740.6	629.5	596.2	592.5
135°	862.0	831.6	712.9	664.4	662.4
140°	954.7	916.7	808.6	758.9	746.1
145°	1014.6	1003.7	905.5	842.4	825.5
150°	1081.6	1062.2	987.7	920.2	934.3
155°	1111.3	1115.9	1048.9	1017.2	990.2
160°	1146.1	1168.0	1130.3	1091.0	1075.9
165°	1212.9	1177.3	1191.7	1155.0	1182.5
170°	1205.2	1163.8	1216.3	1197.8	1206.3
175°	1248.8	1206.8	1212.0	1250.1	1262.4
180°	1199.3	1199.3	1199.3	1199.3	1199.3

(END OF REPORT)