

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: CTL58894

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58894
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-XDX-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: 1582.2 lumens
Efficiency: 54.6%
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.22 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

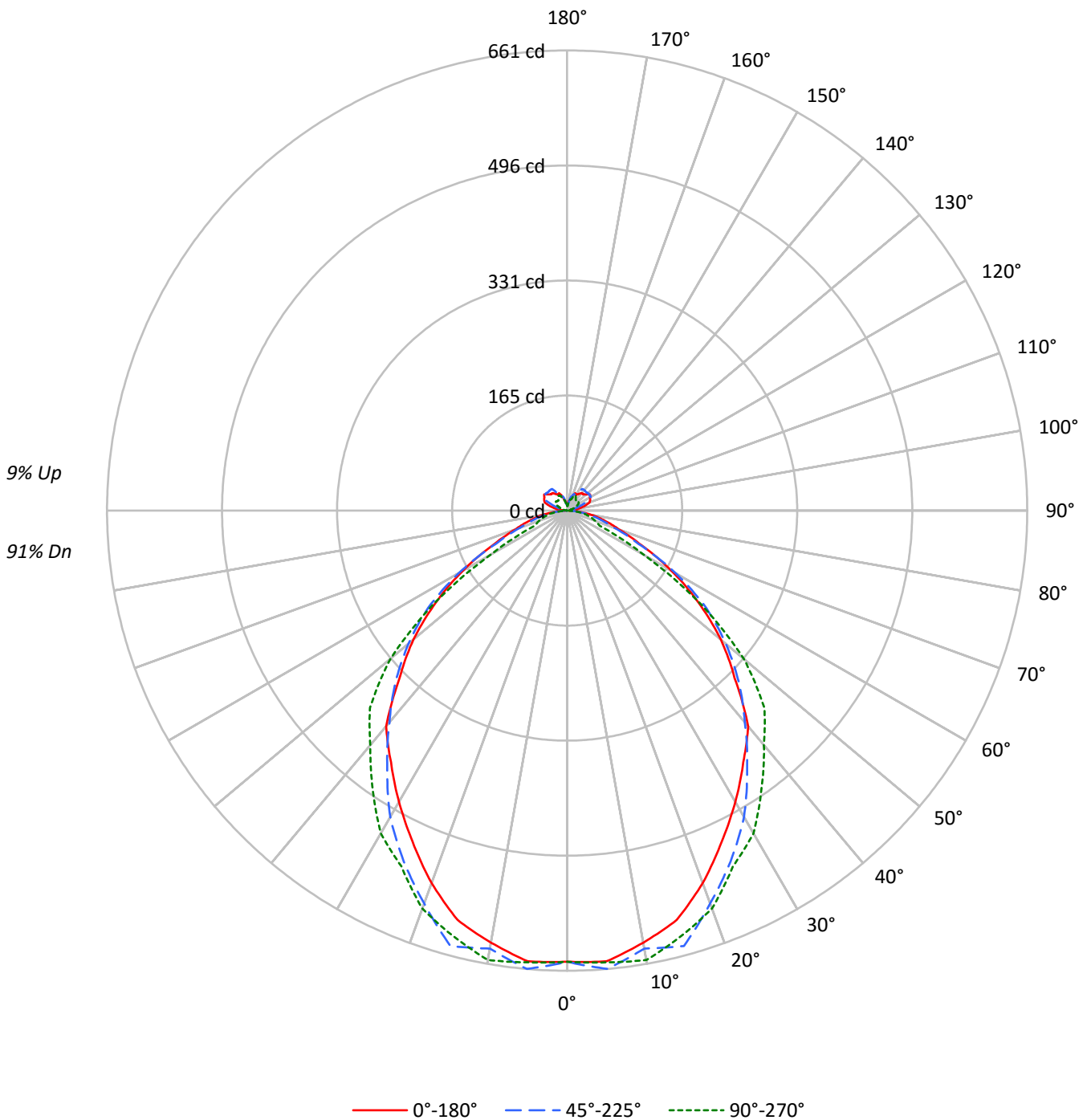
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	64	64	64	64	62	62	62	62	58	58	58	54	54	54	51	51	51	50
1	59	57	55	53	57	55	53	52	52	50	49	49	48	47	46	45	45	43
2	54	50	47	44	52	49	46	43	46	44	42	44	42	40	42	40	39	37
3	50	45	41	38	48	44	40	37	41	38	36	39	37	35	37	35	33	32
4	46	40	36	33	44	39	35	32	37	34	31	35	33	30	34	31	29	28
5	43	36	32	28	41	35	31	28	34	30	27	32	29	27	31	28	26	25
6	39	33	28	25	38	32	28	25	31	27	24	29	26	24	28	25	23	22
7	37	30	25	22	35	29	25	22	28	24	22	27	24	21	26	23	21	20
8	34	27	23	20	33	27	23	20	26	22	19	25	21	19	24	21	19	18
9	32	25	21	18	31	25	21	18	24	20	18	23	20	17	22	19	17	16
10	30	23	19	16	29	23	19	16	22	18	16	21	18	16	20	18	15	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2325	2325	2325
5°	2329	2326	2282
10°	2272	2222	2261
15°	2226	2244	2166
20°	2128	2089	2081
25°	2022	1955	1943
30°	1935	1823	1873
35°	1855	1662	1744
40°	1804	1519	1625
45°	1629	1395	1541
50°	1503	1258	1340
55°	1325	1103	1007
60°	1126	882	588
65°	883	607	260
70°	711	430	238
75°	629	336	211
80°	546	239	173
85°	359	105	64



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.2	3.9	2.1
10°-20°	176.9	11.2	6.1
20°-30°	254.6	16.1	8.8
30°-40°	288.0	18.2	9.9
40°-50°	277.5	17.5	9.6
50°-60°	210.8	13.3	7.3
60°-70°	105.6	6.7	3.6
70°-80°	49.9	3.2	1.7
80°-90°	14.1	0.9	0.5
90°-100°	4.3	0.3	0.1
100°-110°	16.5	1.0	0.6
110°-120°	28.8	1.8	1.0
120°-130°	30.8	1.9	1.1
130°-140°	25.2	1.6	0.9
140°-150°	19.3	1.2	0.7
150°-160°	11.6	0.7	0.4
160°-170°	5.0	0.3	0.2
170°-180°	0.9	0.1	0.0
0°-30°	493.7	31.2	17.0
0°-40°	781.7	49.4	27.0
0°-60°	1270.0	80.3	43.8
0°-90°	1439.7	91.0	49.6
90°-120°	49.7	3.1	1.7
90°-150°	125.0	7.9	4.3
90°-180°	142.0	9.0	4.9
0°-180°	1582.2	100.0	54.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	650	648	661	669	651	61
15°	609	617	648	643	633	171
25°	525	558	556	558	564	242
35°	441	456	451	472	487	277
45°	340	347	349	376	401	265
55°	230	234	244	239	234	206
65°	117	122	113	73	52	120
75°	56	56	48	38	33	59
85°	15	14	10	9	7	17
90°	3	1	0	0	0	4
95°	9	4	2	2	2	10
105°	26	27	10	8	6	27
115°	37	43	33	17	14	36
125°	40	40	39	30	20	35
135°	33	36	38	29	19	26
145°	29	32	38	30	22	19
155°	28	23	26	26	24	12
165°	16	19	19	18	16	5
175°	10	8	9	9	7	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.1	648.1	648.1	648.1	648.1
5°	649.9	648.4	660.9	669.3	651.4
10°	630.2	632.8	638.8	670.0	655.6
15°	608.8	616.8	647.6	642.6	632.9
20°	569.4	588.6	600.6	598.7	608.4
25°	525.1	557.7	555.7	558.0	563.8
30°	483.1	501.7	508.2	507.3	535.4
35°	441.2	456.5	450.8	471.8	487.1
40°	404.5	406.9	397.2	420.0	439.8
45°	340.3	347.2	348.7	376.0	400.6
50°	288.4	292.3	297.4	320.6	331.4
55°	230.0	234.2	243.8	239.2	234.5
60°	173.2	174.3	179.9	153.4	127.3
65°	117.4	122.1	112.7	73.4	51.5
70°	78.9	85.5	71.2	50.2	42.6
75°	55.5	56.0	48.5	38.1	33.4
80°	35.4	32.4	29.2	24.3	23.5
85°	14.7	14.2	10.4	8.9	7.2
90°	2.8	0.8	0.3	0.2	0.2
95°	8.9	4.0	2.4	1.9	1.6
100°	17.5	12.6	6.0	4.4	3.6
105°	26.1	26.9	10.3	8.0	6.5
110°	34.2	39.7	20.1	11.9	10.2
115°	36.6	42.8	33.1	17.1	13.9
120°	37.8	41.4	39.2	26.4	18.6
125°	40.2	40.2	39.4	29.5	20.2
130°	35.9	38.1	38.9	29.5	20.5
135°	32.9	36.0	37.9	29.2	19.2
140°	32.8	34.4	38.4	29.0	19.5
145°	29.3	31.8	37.9	30.1	21.5
150°	26.1	28.5	29.1	29.5	24.5
155°	27.5	23.0	26.0	25.9	24.1
160°	23.1	22.0	24.0	18.5	17.4
165°	16.0	19.1	19.4	17.8	16.2
170°	13.9	9.5	11.6	11.6	11.2
175°	10.5	7.8	8.8	8.7	6.8
180°	7.7	7.7	7.7	7.7	7.7

(END OF REPORT)