

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: CTL58895

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58895
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-XDX-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: 5035.8 lumens
Efficiency: 86.8%
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.11 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

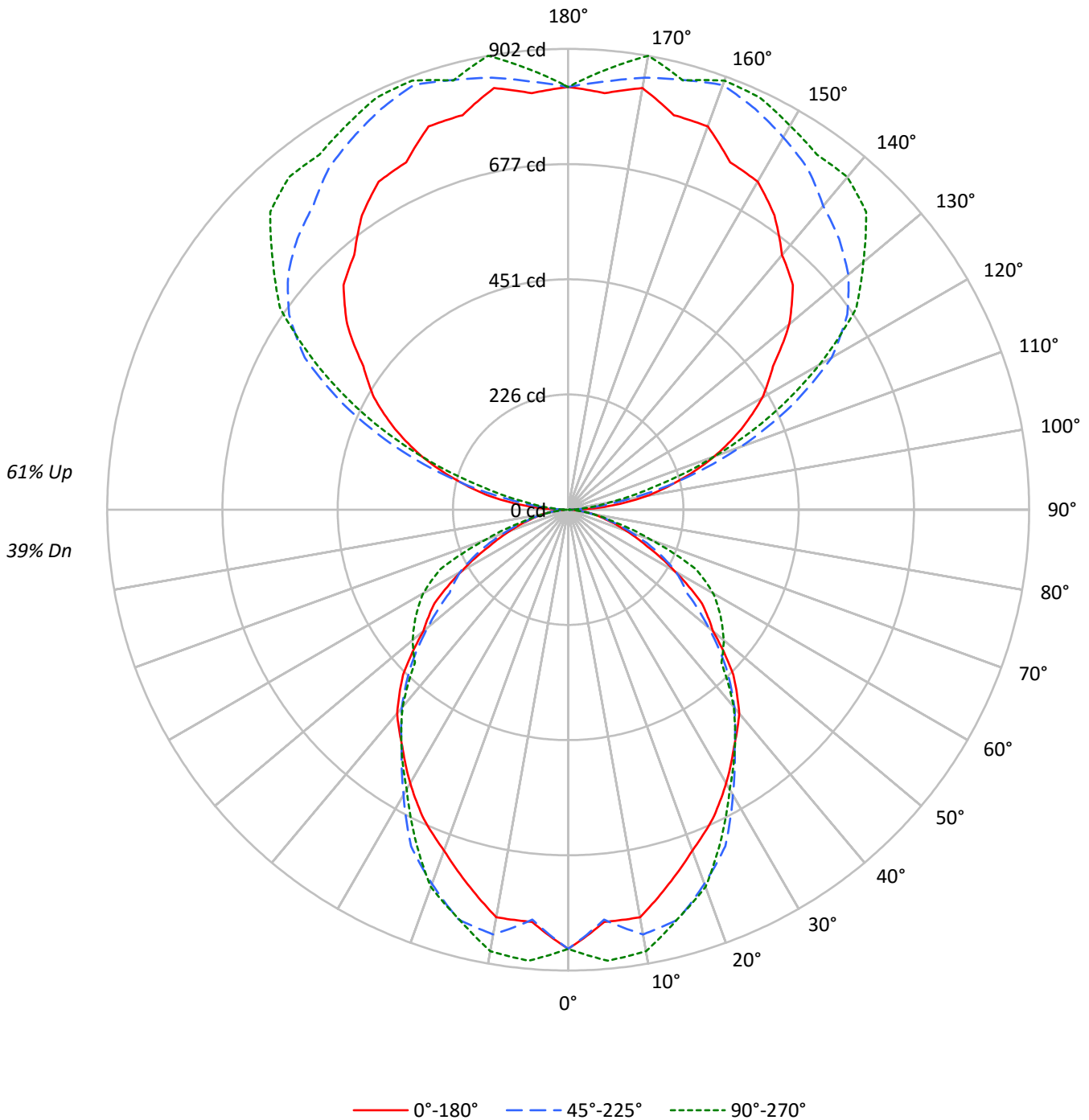
Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	91	91	91	82	82	82	82	67	67	67	53	53	53	40	40	40	33
1	83	79	76	73	75	72	69	67	59	57	55	47	45	44	35	35	34	29
2	76	69	64	60	69	63	59	55	52	49	46	41	39	37	31	30	29	24
3	69	61	55	50	63	56	51	46	46	42	39	37	34	32	28	26	25	21
4	63	54	48	43	57	50	44	39	41	37	33	33	30	27	25	23	21	18
5	58	48	42	37	53	44	38	34	37	32	29	29	26	24	23	21	19	16
6	54	43	37	32	49	40	34	29	33	28	25	27	23	21	21	18	17	14
7	49	39	32	28	45	36	30	26	30	25	22	24	21	18	19	17	15	12
8	46	36	29	25	42	33	27	23	27	23	20	22	19	17	17	15	13	11
9	43	32	26	22	39	30	24	20	25	21	18	20	17	15	16	14	12	10
10	40	30	24	20	36	27	22	18	23	19	16	19	16	13	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3085	3085	3085
5°	2902	2835	3105
10°	2920	2937	3027
15°	2774	2877	2836
20°	2654	2710	2688
25°	2574	2559	2444
30°	2476	2312	2210
35°	2379	2093	2036
40°	2323	1936	1862
45°	2186	1749	1631
50°	1927	1516	1607
55°	1841	1281	1564
60°	1564	1195	1515
65°	1288	1020	1394
70°	1087	806	964
75°	891	592	593
80°	765	392	352
85°	523	181	138



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	80.1	1.6	1.4
10°-20°	228.5	4.5	3.9
20°-30°	326.7	6.5	5.6
30°-40°	360.9	7.2	6.2
40°-50°	340.6	6.8	5.9
50°-60°	282.9	5.6	4.9
60°-70°	203.4	4.0	3.5
70°-80°	95.3	1.9	1.6
80°-90°	24.1	0.5	0.4
90°-100°	58.7	1.2	1.0
100°-110°	242.3	4.8	4.2
110°-120°	442.3	8.8	7.6
120°-130°	561.3	11.1	9.7
130°-140°	570.6	11.3	9.8
140°-150°	502.4	10.0	8.7
150°-160°	390.5	7.8	6.7
160°-170°	244.9	4.9	4.2
170°-180°	80.5	1.6	1.4
0°-30°	635.3	12.6	11.0
0°-40°	996.1	19.8	17.2
0°-60°	1619.6	32.2	27.9
0°-90°	1942.4	38.6	33.5
90°-120°	743.3	14.8	12.8
90°-150°	2377.5	47.2	41.0
90°-180°	3093.0	61.4	53.3
0°-180°	5035.8	100.0	86.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	810	803	806	859	886	78
15°	759	803	830	820	829	214
25°	668	728	727	716	709	307
35°	566	603	568	575	569	356
45°	457	457	437	429	424	348
55°	319	307	283	325	364	279
65°	171	171	189	251	277	174
75°	79	83	85	91	94	86
85°	21	21	18	17	16	24
90°	8	4	2	2	2	16
95°	79	53	35	32	29	82
105°	228	282	234	192	175	242
115°	374	449	483	453	439	369
125°	489	581	667	694	688	444
135°	622	691	750	817	824	475
145°	703	782	816	839	848	439
155°	750	834	866	856	889	351
165°	800	844	871	907	870	229
175°	818	786	841	871	865	79
180°	827	827	827	827	827	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.7	859.7	859.7	859.7	859.7
5°	810.0	802.6	805.6	859.4	886.1
10°	809.9	828.1	844.2	870.3	877.5
15°	758.9	803.1	830.2	819.5	828.8
20°	710.1	755.4	779.1	785.0	785.7
25°	668.4	728.1	727.1	715.8	709.2
30°	618.4	661.8	644.4	622.4	631.8
35°	565.8	602.8	567.6	575.1	568.7
40°	520.8	527.9	506.3	497.3	504.0
45°	456.7	457.4	437.0	429.4	424.1
50°	369.9	391.2	358.5	355.3	397.4
55°	319.4	306.8	283.2	324.7	364.1
60°	240.5	237.2	243.9	291.6	327.9
65°	171.2	170.7	189.2	250.6	276.6
70°	120.7	119.4	133.5	163.4	172.5
75°	78.6	83.4	85.4	91.1	93.8
80°	49.6	47.4	47.8	46.3	47.9
85°	21.4	21.3	17.9	17.2	15.6
90°	8.0	4.1	2.5	2.1	1.5
95°	79.3	52.9	35.4	32.1	28.6
100°	157.2	165.9	119.1	94.5	83.7
105°	227.8	282.3	233.8	191.8	175.3
110°	304.4	376.3	358.9	315.9	304.4
115°	373.5	448.9	482.7	452.6	439.4
120°	438.7	520.8	595.1	591.0	568.1
125°	489.1	580.7	666.8	694.2	688.1
130°	564.7	629.6	715.6	751.3	754.0
135°	621.7	690.9	749.6	817.2	824.4
140°	651.1	725.6	776.4	833.5	849.8
145°	703.4	781.9	816.4	838.7	848.4
150°	741.4	790.0	841.7	859.8	868.2
155°	750.2	833.5	865.6	856.3	889.3
160°	798.3	841.9	884.5	894.1	893.7
165°	799.5	844.4	870.8	907.4	869.7
170°	837.9	836.7	858.7	873.2	902.2
175°	818.4	785.8	841.3	870.8	865.2
180°	827.4	827.4	827.4	827.4	827.4

(END OF REPORT)