

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: CTL58893

Luminaire Tested: **NB-SW-3T8-DXD-3 ALL LAMPS ON**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58893
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-DXD-3 ALL LAMPS ON
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 (3 lamps)
Luminaire Lumens: 5468.9 lumens
Efficiency: 62.9%
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.11 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Direct

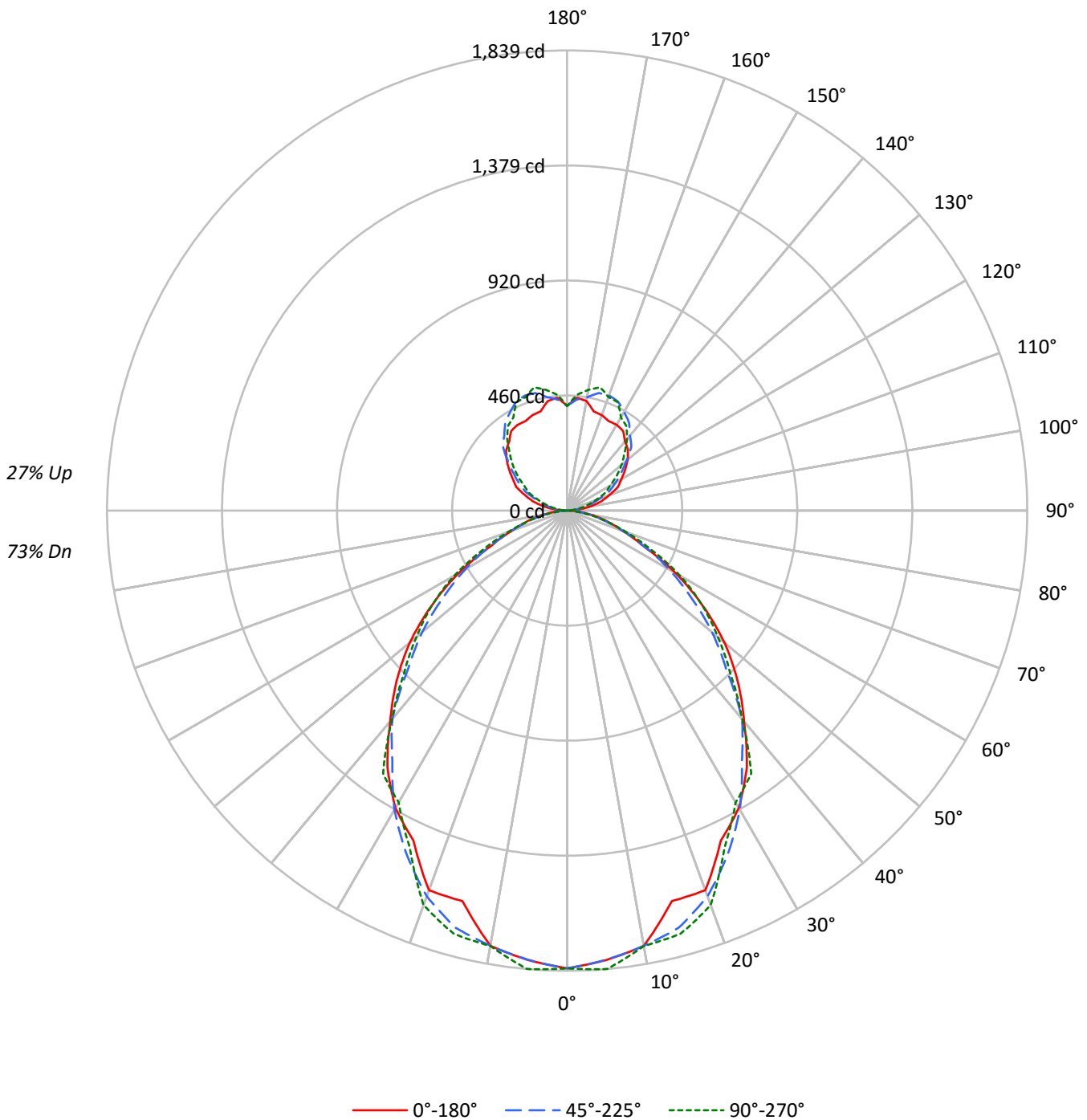
Input Watts (W): 117
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71	71	71	71	67	67	67	67	60	60	60	54	54	54	48	48	48	46
1	65	63	60	58	62	59	57	56	54	52	51	48	47	46	44	43	42	39
2	60	55	51	48	57	53	49	46	48	45	43	43	41	39	39	37	36	34
3	55	49	44	41	52	47	43	39	42	39	36	38	36	34	35	33	31	29
4	50	44	39	35	48	42	37	34	38	34	31	35	32	29	31	29	27	25
5	46	39	34	30	44	37	33	29	34	30	27	31	28	26	29	26	24	22
6	43	35	30	27	41	34	29	26	31	27	24	28	25	23	26	23	21	20
7	40	32	27	24	38	31	26	23	28	24	22	26	23	20	24	21	19	18
8	37	29	24	21	35	28	24	21	26	22	19	24	21	18	22	19	17	16
9	35	27	22	19	33	26	22	18	24	20	18	22	19	17	20	18	16	14
10	33	25	20	17	31	24	20	17	22	18	16	21	17	15	19	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6564	6564	6564
5°	6460	6342	6444
10°	6368	6144	6095
15°	5908	5980	5991
20°	6033	5706	5741
25°	5602	5339	5125
30°	5495	4952	4712
35°	5264	4490	4591
40°	4906	4155	4021
45°	4616	3602	3550
50°	4278	3198	3179
55°	3803	2729	2829
60°	3255	2303	2410
65°	2529	1843	1873
70°	2094	1429	1398
75°	1863	1042	988
80°	1482	703	575
85°	1129	332	232



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	172.0	3.1	2.0
10°-20°	484.9	8.9	5.6
20°-30°	693.8	12.7	8.0
30°-40°	774.9	14.2	8.9
40°-50°	718.7	13.1	8.3
50°-60°	567.8	10.4	6.5
60°-70°	354.4	6.5	4.1
70°-80°	168.4	3.1	1.9
80°-90°	43.3	0.8	0.5
90°-100°	31.3	0.6	0.4
100°-110°	109.1	2.0	1.3
110°-120°	186.5	3.4	2.1
120°-130°	241.5	4.4	2.8
130°-140°	271.3	5.0	3.1
140°-150°	261.2	4.8	3.0
150°-160°	214.0	3.9	2.5
160°-170°	133.2	2.4	1.5
170°-180°	42.6	0.8	0.5
0°-30°	1350.7	24.7	15.5
0°-40°	2125.6	38.9	24.4
0°-60°	3412.1	62.4	39.2
0°-90°	3978.2	72.7	45.7
90°-120°	326.9	6.0	3.8
90°-150°	1100.9	20.1	12.7
90°-180°	1491.0	27.3	17.1
0°-180°	5468.9	100.0	62.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1803	1778	1802	1844	1839	171
15°	1616	1711	1726	1774	1751	467
25°	1454	1527	1517	1500	1487	680
35°	1252	1271	1218	1214	1283	779
45°	964	968	900	892	923	743
55°	660	642	603	637	659	590
65°	336	345	342	369	372	347
75°	164	162	150	148	156	173
85°	46	39	33	30	26	49
90°	7	3	1	0	0	14
95°	40	32	23	14	15	47
105°	139	118	95	90	82	145
115°	224	210	187	171	168	217
125°	282	300	263	250	241	253
135°	344	381	363	339	323	264
145°	389	435	430	419	412	240
155°	394	471	481	483	478	184
165°	410	433	486	501	510	118
175°	452	420	445	450	465	42
180°	418	418	418	418	418	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.4	1829.4	1829.4	1829.4	1829.4
5°	1803.0	1778.2	1802.1	1843.8	1839.2
10°	1766.3	1730.7	1766.1	1853.0	1767.0
15°	1615.9	1711.0	1725.7	1774.1	1751.0
20°	1614.6	1595.2	1640.2	1675.5	1678.2
25°	1454.5	1526.8	1517.3	1500.3	1487.3
30°	1372.2	1391.6	1380.2	1363.6	1346.9
35°	1252.2	1271.1	1217.5	1214.5	1282.6
40°	1100.0	1122.2	1086.8	1067.3	1088.4
45°	964.2	968.1	900.3	892.4	923.1
50°	821.0	801.2	756.0	761.9	786.3
55°	660.0	642.4	603.4	636.8	658.6
60°	500.6	486.6	469.9	488.0	521.6
65°	336.2	345.0	341.9	368.6	371.6
70°	232.4	233.9	236.5	247.0	250.2
75°	164.4	161.8	150.4	148.2	156.2
80°	96.1	95.9	85.8	85.0	78.2
85°	46.2	38.8	32.8	29.5	26.2
90°	6.6	3.1	0.9	0.2	0.4
95°	39.5	32.2	23.1	14.2	15.1
100°	93.0	71.3	60.2	55.7	50.8
105°	139.3	118.3	95.4	90.0	82.0
110°	177.1	161.7	135.1	120.0	120.8
115°	224.3	210.2	187.0	171.2	168.3
120°	249.6	257.3	223.1	214.4	197.1
125°	282.1	300.1	262.9	250.0	240.9
130°	315.7	346.6	308.6	294.3	283.7
135°	344.0	380.6	362.9	338.7	323.4
140°	360.0	409.7	390.8	369.5	372.5
145°	388.9	435.4	430.3	419.0	412.1
150°	395.7	447.7	455.2	444.7	429.8
155°	394.0	471.2	480.8	482.8	478.2
160°	405.5	470.8	489.9	505.6	482.5
165°	410.3	433.2	486.1	501.0	510.0
170°	444.2	428.0	459.9	479.6	489.8
175°	452.5	420.4	445.4	450.2	464.6
180°	417.7	417.7	417.7	417.7	417.7

(END OF REPORT)