

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: CTL58896

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58896
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-XDX-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: 6544.2 lumens
Efficiency: 75.2%
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.18 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

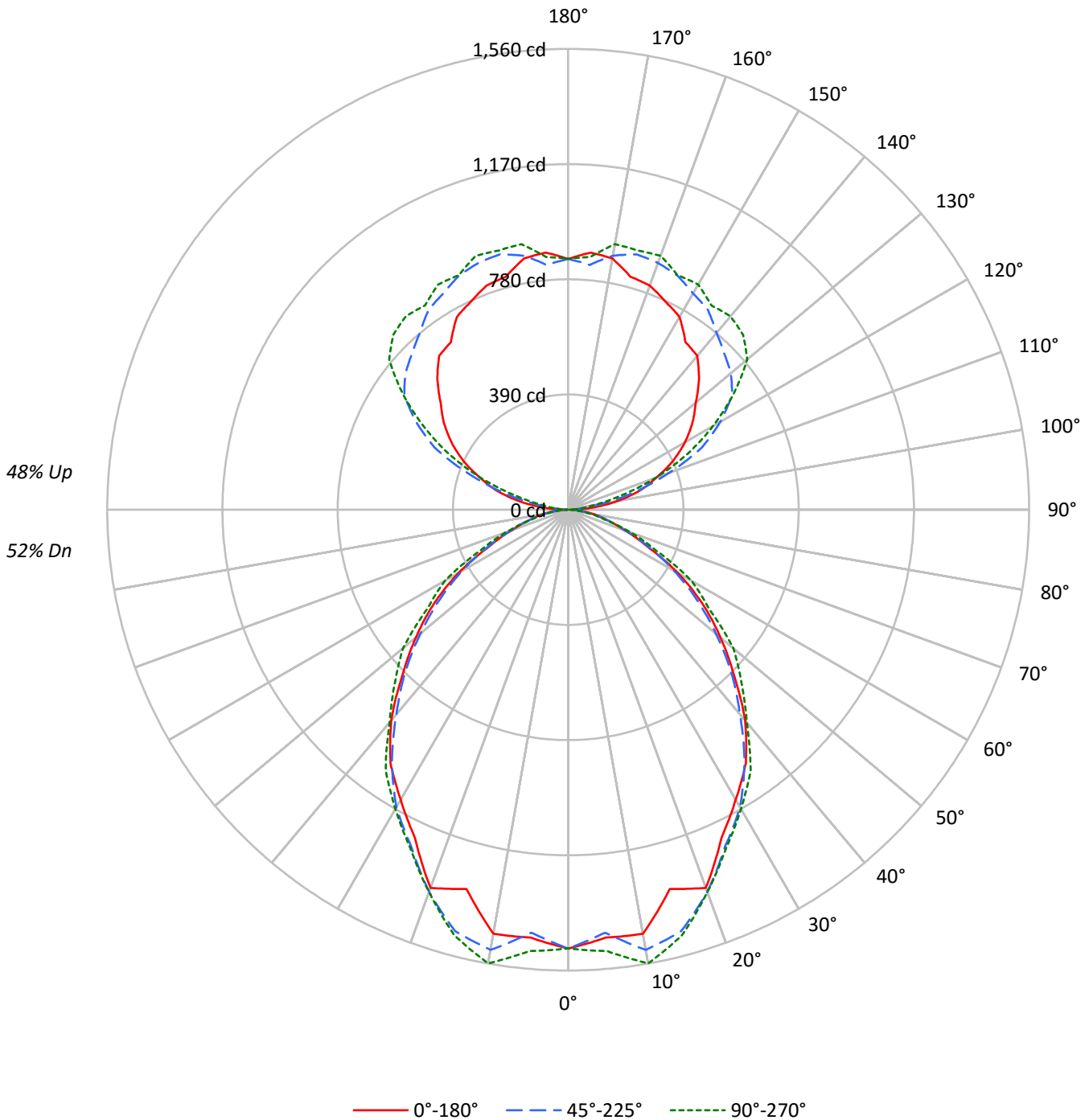
Input Watts (W): 117
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	81	81	81	75	75	75	75	64	64	64		53	53	53		44	44	44	39
1	74	71	68	66	69	66	64	61	56	55	53		47	46	45		39	38	38	34
2	68	63	58	54	63	58	54	51	50	47	44		42	40	38		35	33	32	29
3	62	55	50	46	57	51	47	43	44	41	38		37	35	33		31	29	28	25
4	57	49	43	39	53	46	41	37	39	36	32		34	31	28		28	26	24	22
5	52	44	38	34	48	41	36	32	35	31	28		30	27	25		25	23	21	19
6	48	39	34	29	45	37	32	28	32	28	25		27	24	22		23	21	19	17
7	45	36	30	26	41	33	28	24	29	25	22		25	22	19		21	19	17	15
8	42	33	27	23	39	30	25	22	27	22	20		23	20	17		20	17	15	13
9	39	30	24	20	36	28	23	19	24	20	18		21	18	16		18	16	14	12
10	36	27	22	18	34	26	21	18	23	19	16		20	16	14		17	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5330	5330	5330
5°	5211	5057	5254
10°	5256	5264	5379
15°	4859	5120	5101
20°	5090	4789	4710
25°	4723	4424	4355
30°	4539	4173	4091
35°	4405	3836	3854
40°	4155	3457	3470
45°	3798	3124	3189
50°	3506	2759	2948
55°	3197	2404	2486
60°	2787	2030	2229
65°	2223	1627	1660
70°	1825	1262	1260
75°	1556	937	793
80°	1333	625	537
85°	941	313	206



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	142.1	2.2	1.6
10°-20°	407.2	6.2	4.7
20°-30°	584.9	8.9	6.7
30°-40°	657.2	10.0	7.6
40°-50°	620.1	9.5	7.1
50°-60°	497.4	7.6	5.7
60°-70°	313.5	4.8	3.6
70°-80°	146.2	2.2	1.7
80°-90°	38.6	0.6	0.4
90°-100°	60.9	0.9	0.7
100°-110°	248.1	3.8	2.9
110°-120°	450.5	6.9	5.2
120°-130°	569.8	8.7	6.5
130°-140°	577.7	8.8	6.6
140°-150°	506.7	7.7	5.8
150°-160°	393.7	6.0	4.5
160°-170°	247.8	3.8	2.8
170°-180°	81.7	1.2	0.9
0°-30°	1134.2	17.3	13.0
0°-40°	1791.4	27.4	20.6
0°-60°	2908.9	44.4	33.4
0°-90°	3407.2	52.1	39.2
90°-120°	759.5	11.6	8.7
90°-150°	2413.8	36.9	27.7
90°-180°	3137.0	47.9	36.1
0°-180°	6544.2	100.0	75.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1454	1493	1437	1502	1500	139
15°	1329	1404	1477	1475	1491	387
25°	1226	1300	1257	1276	1264	570
35°	1048	1086	1040	1043	1077	651
45°	793	823	781	797	829	616
55°	555	538	532	578	579	494
65°	295	296	302	332	330	302
75°	137	139	135	128	125	149
85°	38	35	31	25	23	43
90°	10	5	4	2	2	19
95°	82	58	37	31	30	88
105°	252	284	234	195	184	261
115°	392	463	499	452	443	386
125°	514	593	677	704	683	458
135°	626	693	747	834	837	482
145°	692	779	825	858	844	442
155°	778	829	874	879	876	360
165°	816	866	895	890	908	233
175°	874	813	832	887	859	83
180°	849	849	849	849	849	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.4	1485.4	1485.4	1485.4	1485.4
5°	1454.3	1493.3	1437.0	1502.5	1499.6
10°	1457.8	1452.3	1513.1	1548.3	1559.6
15°	1329.2	1403.7	1477.4	1474.6	1490.9
20°	1362.2	1379.4	1376.7	1389.0	1376.9
25°	1226.4	1300.2	1257.2	1275.6	1263.9
30°	1133.4	1172.8	1163.2	1141.5	1169.4
35°	1047.9	1085.5	1040.3	1043.0	1076.6
40°	931.6	944.2	904.2	920.7	939.5
45°	793.4	822.6	780.8	796.7	829.3
50°	672.9	686.6	652.2	686.9	729.2
55°	554.7	538.4	531.5	578.5	578.7
60°	428.7	418.2	414.3	455.2	482.5
65°	295.4	296.5	301.9	332.2	329.5
70°	202.6	202.4	209.0	217.3	225.4
75°	137.3	139.3	135.2	127.6	125.3
80°	86.4	81.6	76.3	69.7	73.0
85°	38.5	34.6	30.9	25.1	23.3
90°	9.7	5.3	3.5	2.1	1.9
95°	81.7	57.5	36.7	31.1	30.0
100°	169.2	179.2	115.2	92.7	88.2
105°	251.6	284.3	234.1	195.0	183.6
110°	317.2	384.6	361.2	323.8	313.5
115°	391.9	463.2	499.3	452.2	443.4
120°	456.1	523.7	594.2	601.3	564.8
125°	513.6	593.2	676.9	704.4	683.0
130°	563.6	642.7	718.7	765.0	790.6
135°	626.0	692.8	747.0	834.3	837.1
140°	679.8	744.6	780.7	843.5	854.5
145°	692.0	779.1	824.8	858.4	844.4
150°	753.6	813.8	845.1	845.0	880.2
155°	777.6	829.1	874.4	878.8	875.9
160°	807.2	836.6	888.9	901.0	914.5
165°	816.2	865.8	894.9	890.2	908.3
170°	863.1	830.8	873.3	878.6	912.7
175°	873.7	812.6	831.8	887.4	858.8
180°	848.8	848.8	848.8	848.8	848.8

(END OF REPORT)