

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: CTL58899

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58899
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T8-XUX-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: 6719.6 lumens
Efficiency: 77.2%
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.16 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

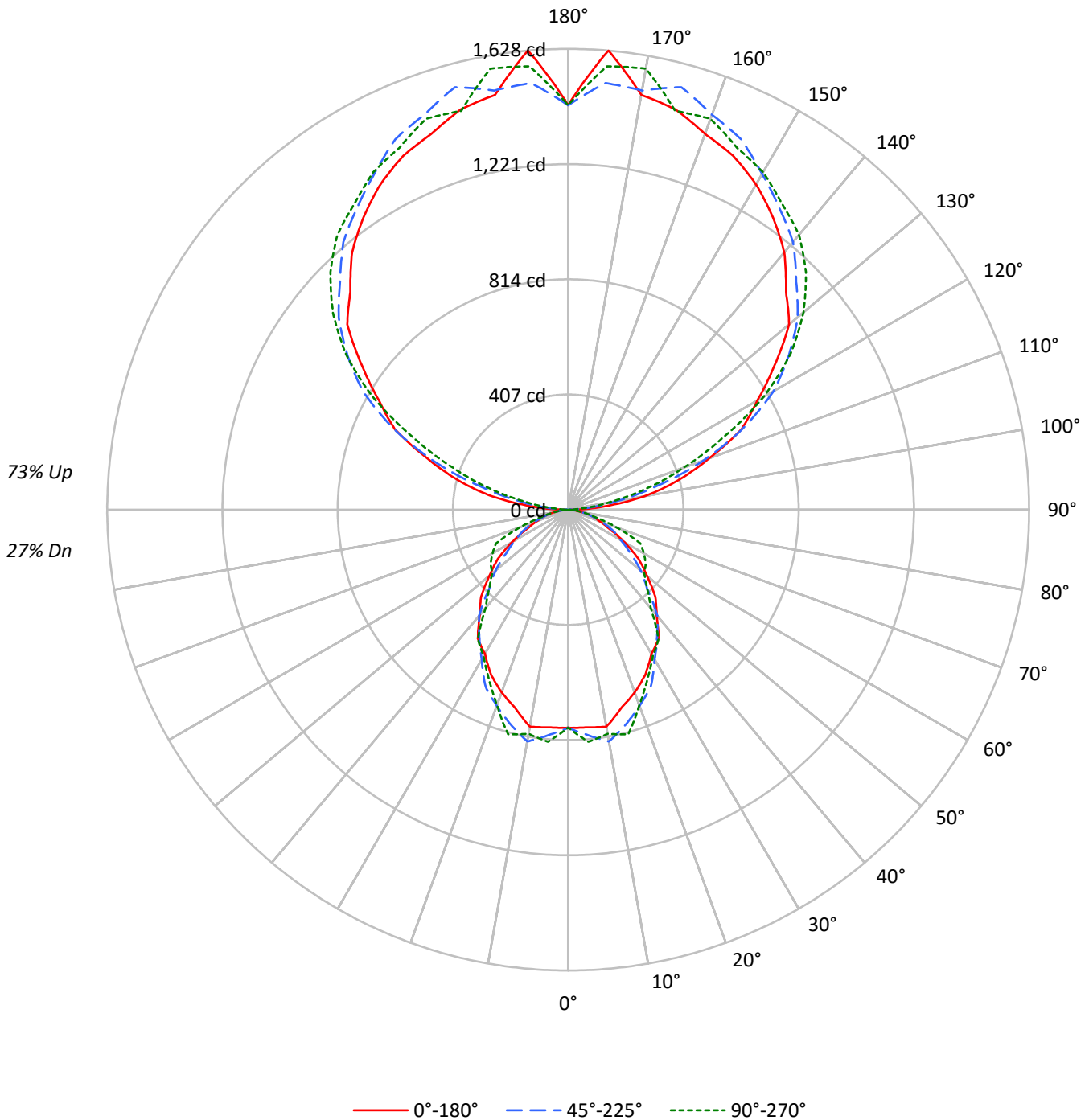
Input Watts (W): 117
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	79	79	79	70	70	70	70	55	55	55	40	40	40	27	27	27	21
1	72	69	66	63	64	61	59	57	48	46	45	36	35	34	24	24	23	18
2	65	60	56	52	58	54	50	47	42	40	37	31	30	28	22	21	20	15
3	60	53	47	43	53	47	43	39	37	34	32	28	26	24	19	18	17	13
4	55	47	41	37	49	42	37	33	33	30	27	25	23	21	17	16	15	11
5	50	42	36	31	45	37	32	29	30	26	23	22	20	18	16	14	13	10
6	46	37	31	27	41	34	28	25	27	23	20	20	18	16	14	13	11	9
7	43	34	28	24	38	30	25	22	24	20	18	18	16	14	13	11	10	8
8	39	30	25	21	35	27	22	19	22	18	16	17	14	12	12	10	9	7
9	37	28	22	18	33	25	20	17	20	16	14	15	13	11	11	9	8	6
10	34	25	20	16	31	23	18	15	18	15	13	14	12	10	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2764	2764	2764
5°	2766	2813	2883
10°	2806	2893	2773
15°	2649	2722	2810
20°	2567	2563	2512
25°	2478	2429	2279
30°	2356	2190	2090
35°	2338	2017	1992
40°	2165	1872	1673
45°	2082	1577	1516
50°	1888	1415	1413
55°	1746	1209	1437
60°	1482	1052	1424
65°	1202	940	1417
70°	1049	755	992
75°	977	580	588
80°	713	369	351
85°	528	172	131



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	75.8	1.1	0.9
10°-20°	218.5	3.3	2.5
20°-30°	310.2	4.6	3.6
30°-40°	344.9	5.1	4.0
40°-50°	318.6	4.7	3.7
50°-60°	264.7	3.9	3.0
60°-70°	193.4	2.9	2.2
70°-80°	93.1	1.4	1.1
80°-90°	22.9	0.3	0.3
90°-100°	91.8	1.4	1.1
100°-110°	361.3	5.4	4.2
110°-120°	650.4	9.7	7.5
120°-130°	839.3	12.5	9.6
130°-140°	886.6	13.2	10.2
140°-150°	818.6	12.2	9.4
150°-160°	658.1	9.8	7.6
160°-170°	425.3	6.3	4.9
170°-180°	146.0	2.2	1.7
0°-30°	604.5	9.0	6.9
0°-40°	949.3	14.1	10.9
0°-60°	1532.7	22.8	17.6
0°-90°	1842.1	27.4	21.2
90°-120°	1103.5	16.4	12.7
90°-150°	3648.0	54.3	41.9
90°-180°	4877.0	72.6	56.1
0°-180°	6719.6	100.0	77.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	772	794	799	755	823	74
15°	725	766	786	793	821	205
25°	644	702	690	668	661	295
35°	556	580	547	528	556	342
45°	435	437	394	387	394	331
55°	303	293	267	303	335	267
65°	160	160	174	241	281	164
75°	86	79	84	87	93	88
85°	22	20	17	15	15	24
90°	10	4	3	2	1	22
95°	118	89	63	46	42	138
105°	402	409	326	279	283	423
115°	676	681	683	627	604	657
125°	889	924	951	957	958	799
135°	1088	1139	1139	1176	1187	847
145°	1261	1338	1301	1312	1318	790
155°	1379	1434	1444	1442	1411	635
165°	1464	1500	1545	1527	1459	412
175°	1628	1526	1513	1615	1572	148
180°	1429	1429	1429	1429	1429	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.3	770.3	770.3	770.3	770.3
5°	772.0	794.0	799.3	755.4	822.9
10°	778.4	784.0	831.5	838.1	803.9
15°	724.6	766.0	785.5	793.4	821.3
20°	687.0	711.6	736.8	749.2	734.5
25°	643.5	701.5	690.3	668.2	661.4
30°	588.2	627.9	610.4	602.2	597.5
35°	556.2	580.0	546.9	528.3	556.4
40°	485.4	514.7	489.5	483.9	452.8
45°	434.9	437.0	394.1	387.1	394.2
50°	362.3	357.3	334.5	337.4	349.6
55°	303.0	292.8	267.2	302.8	334.6
60°	227.9	220.1	214.6	281.6	308.1
65°	159.7	159.8	174.3	240.8	281.2
70°	116.4	111.6	125.0	168.4	177.5
75°	86.2	79.3	83.7	87.2	93.0
80°	46.2	44.6	45.0	44.6	47.7
85°	21.6	19.6	17.0	15.2	14.8
90°	9.9	4.5	3.4	2.1	1.3
95°	118.0	88.7	63.1	45.9	42.5
100°	272.8	242.7	175.4	151.7	143.0
105°	401.6	408.8	325.5	279.3	283.2
110°	528.2	554.4	508.3	445.8	432.2
115°	676.2	680.7	683.0	627.0	603.8
120°	770.9	819.5	836.7	819.2	797.1
125°	889.3	924.0	951.2	957.0	958.0
130°	1018.5	1029.2	1058.0	1088.4	1084.6
135°	1087.6	1138.6	1138.9	1176.1	1187.4
140°	1187.1	1229.6	1234.8	1246.8	1268.2
145°	1260.9	1337.7	1301.0	1311.8	1317.7
150°	1327.0	1379.8	1369.5	1363.0	1376.6
155°	1379.2	1434.0	1444.5	1441.8	1410.7
160°	1412.8	1459.4	1485.0	1508.3	1469.2
165°	1464.4	1500.2	1545.4	1527.0	1459.0
170°	1488.1	1504.5	1503.7	1530.5	1582.4
175°	1628.0	1526.2	1513.1	1614.6	1572.3
180°	1428.8	1428.8	1428.8	1428.8	1428.8

(END OF REPORT)