

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: CTL58884

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58884  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T8-UDU-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: 5015.4 lumens  
Efficiency: 57.6%  
Efficacy: 42.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.25 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Indirect

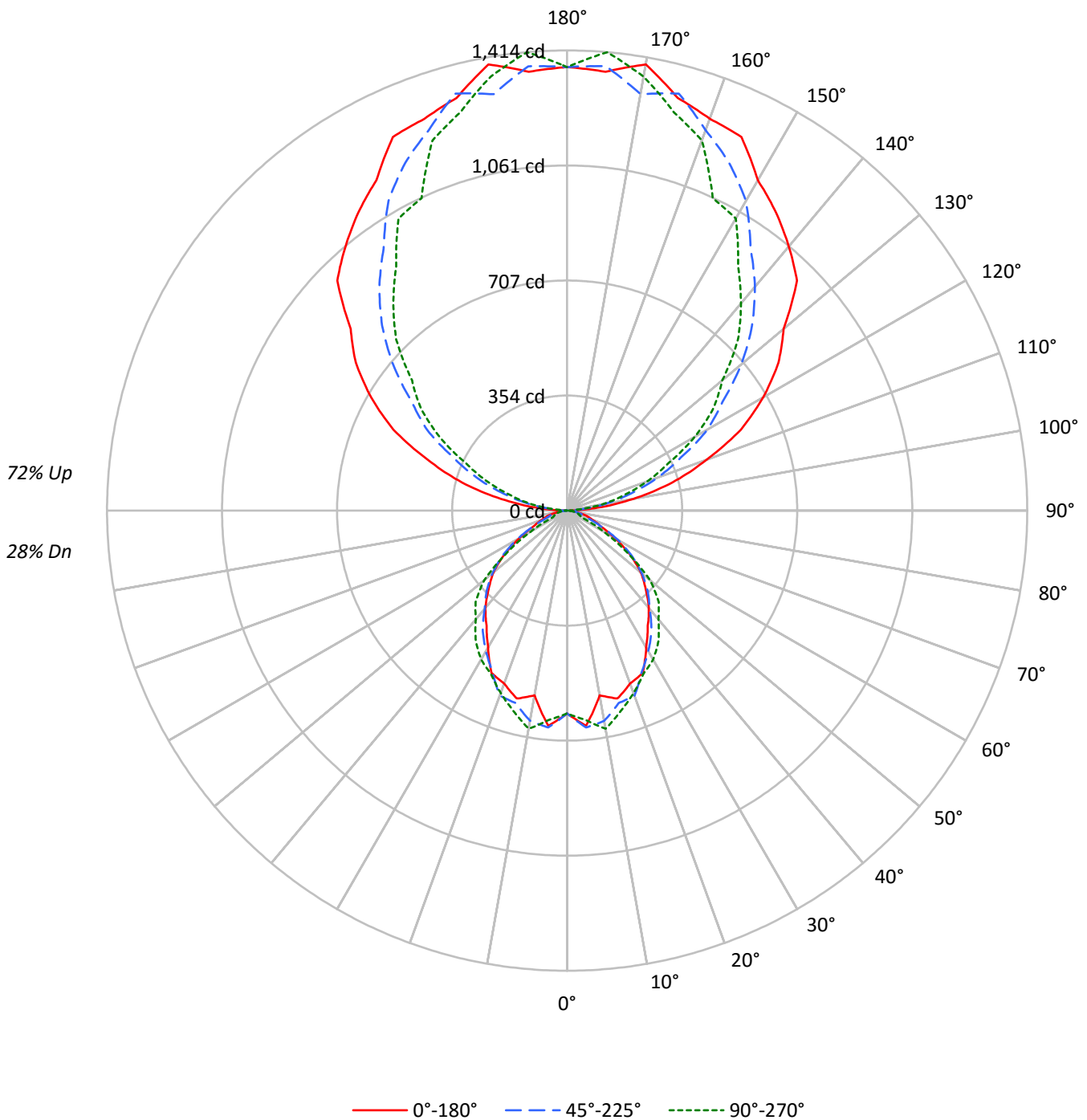
Input Watts (W): 117  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	59	59	59	59	53	53	53	53	41	41	41	31	31	31	21	21	21	16
1	54	51	49	48	48	46	44	43	36	35	34	27	27	26	19	18	18	14
2	49	45	42	39	44	41	38	36	32	30	29	24	23	22	17	16	16	12
3	45	40	36	33	40	36	33	30	28	26	24	21	20	19	15	14	13	11
4	41	35	31	28	37	32	28	25	25	23	21	19	18	16	14	13	12	9
5	38	31	27	24	34	28	25	22	23	20	18	17	15	14	12	11	10	8
6	35	28	24	21	31	25	22	19	20	18	16	16	14	12	11	10	9	7
7	32	25	21	18	29	23	19	17	18	16	14	14	12	11	10	9	8	6
8	30	23	19	16	27	21	17	15	17	14	12	13	11	10	9	8	7	6
9	28	21	17	14	25	19	15	13	15	13	11	12	10	9	9	7	7	5
10	26	19	15	13	23	17	14	12	14	12	10	11	9	8	8	7	6	5

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2236	2236	2236
5°	2378	2354	2262
10°	2078	2282	2348
15°	2186	2122	2181
20°	2114	2105	2041
25°	2119	1915	1908
30°	1946	1790	1848
35°	1816	1667	1752
40°	1742	1506	1613
45°	1633	1400	1529
50°	1540	1267	1345
55°	1359	1095	966
60°	1092	876	597
65°	850	609	241
70°	740	407	228
75°	687	343	214
80°	475	239	165
85°	393	111	61



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	61.8	1.2	0.7
10°-20°	176.0	3.5	2.0
20°-30°	252.9	5.0	2.9
30°-40°	286.0	5.7	3.3
40°-50°	276.0	5.5	3.2
50°-60°	208.8	4.2	2.4
60°-70°	103.8	2.1	1.2
70°-80°	49.2	1.0	0.6
80°-90°	14.2	0.3	0.2
90°-100°	61.8	1.2	0.7
100°-110°	238.2	4.8	2.7
110°-120°	418.1	8.3	4.8
120°-130°	561.3	11.2	6.5
130°-140°	637.6	12.7	7.3
140°-150°	632.1	12.6	7.3
150°-160°	542.4	10.8	6.2
160°-170°	365.4	7.3	4.2
170°-180°	130.0	2.6	1.5
0°-30°	490.7	9.8	5.6
0°-40°	776.6	15.5	8.9
0°-60°	1261.4	25.2	14.5
0°-90°	1428.5	28.5	16.4
90°-120°	718.1	14.3	8.3
90°-150°	2549.1	50.8	29.3
90°-180°	3587.0	71.5	41.2
0°-180°	5015.4	100.0	57.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	664	644	669	656	646	60
15°	598	620	612	651	638	166
25°	550	551	544	543	554	248
35°	432	459	452	460	489	272
45°	341	349	350	367	398	264
55°	236	229	242	236	225	209
65°	113	121	113	71	48	118
75°	61	56	50	37	34	62
85°	16	14	11	8	7	17
90°	8	4	1	0	1	16
95°	84	68	36	26	23	103
105°	335	250	202	190	177	351
115°	589	471	386	361	342	576
125°	793	718	582	548	549	705
135°	999	906	804	732	742	758
145°	1119	1104	983	917	916	701
155°	1267	1230	1178	1136	1059	576
165°	1313	1297	1327	1255	1267	374
175°	1354	1376	1370	1386	1414	131
180°	1363	1363	1363	1363	1363	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	623.3	623.3	623.3	623.3	623.3
5°	663.8	644.4	669.0	655.6	645.7
10°	576.4	620.8	655.9	671.6	680.7
15°	597.9	619.5	612.2	651.3	637.5
20°	565.6	595.3	605.2	604.7	596.8
25°	550.2	551.4	544.1	543.4	553.8
30°	485.9	511.7	498.9	490.3	528.4
35°	431.9	458.9	452.1	459.8	489.4
40°	390.6	393.6	393.8	434.7	436.7
45°	341.1	349.3	349.8	367.2	397.6
50°	295.6	283.6	299.6	315.2	332.7
55°	235.8	229.2	242.1	236.5	224.8
60°	168.0	174.1	178.8	151.3	129.2
65°	113.0	120.8	113.0	71.2	47.9
70°	82.1	80.4	67.3	47.7	40.8
75°	60.6	56.3	49.5	36.7	33.9
80°	30.8	30.3	29.1	23.0	22.5
85°	16.1	14.4	11.0	8.1	6.9
90°	7.6	3.6	0.8	0.4	0.7
95°	83.5	67.6	35.9	26.0	23.0
100°	205.8	150.0	120.0	106.9	109.1
105°	335.2	250.3	202.4	190.3	177.3
110°	454.6	355.3	295.0	271.0	260.8
115°	588.9	471.4	385.9	361.0	342.0
120°	695.3	582.5	497.4	455.1	453.0
125°	793.0	718.3	582.4	547.8	549.2
130°	868.1	810.7	698.6	630.4	622.4
135°	998.9	905.6	803.9	731.8	742.5
140°	1059.9	1008.8	897.6	847.6	831.0
145°	1118.7	1104.3	982.8	917.1	915.8
150°	1172.0	1187.4	1098.5	1010.8	1036.1
155°	1266.8	1230.2	1178.5	1136.5	1059.0
160°	1281.3	1288.5	1243.9	1208.8	1210.1
165°	1312.6	1297.3	1326.6	1255.3	1267.1
170°	1392.1	1350.5	1299.1	1337.7	1353.7
175°	1353.5	1376.4	1370.4	1385.7	1413.8
180°	1362.8	1362.8	1362.8	1362.8	1362.8

(END OF REPORT)