

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: CTL58840

Luminaire Tested: **NB-SW-2T5-DL8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58840  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-2T5-DL8  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & DOWNLIGHT KIT  
  
Light Source: 54 WATT T5 LAMP  
FP54T5/835HO. LUMEN RATING = 5000 LMS.  
Ballast/Driver: -

**Summary**

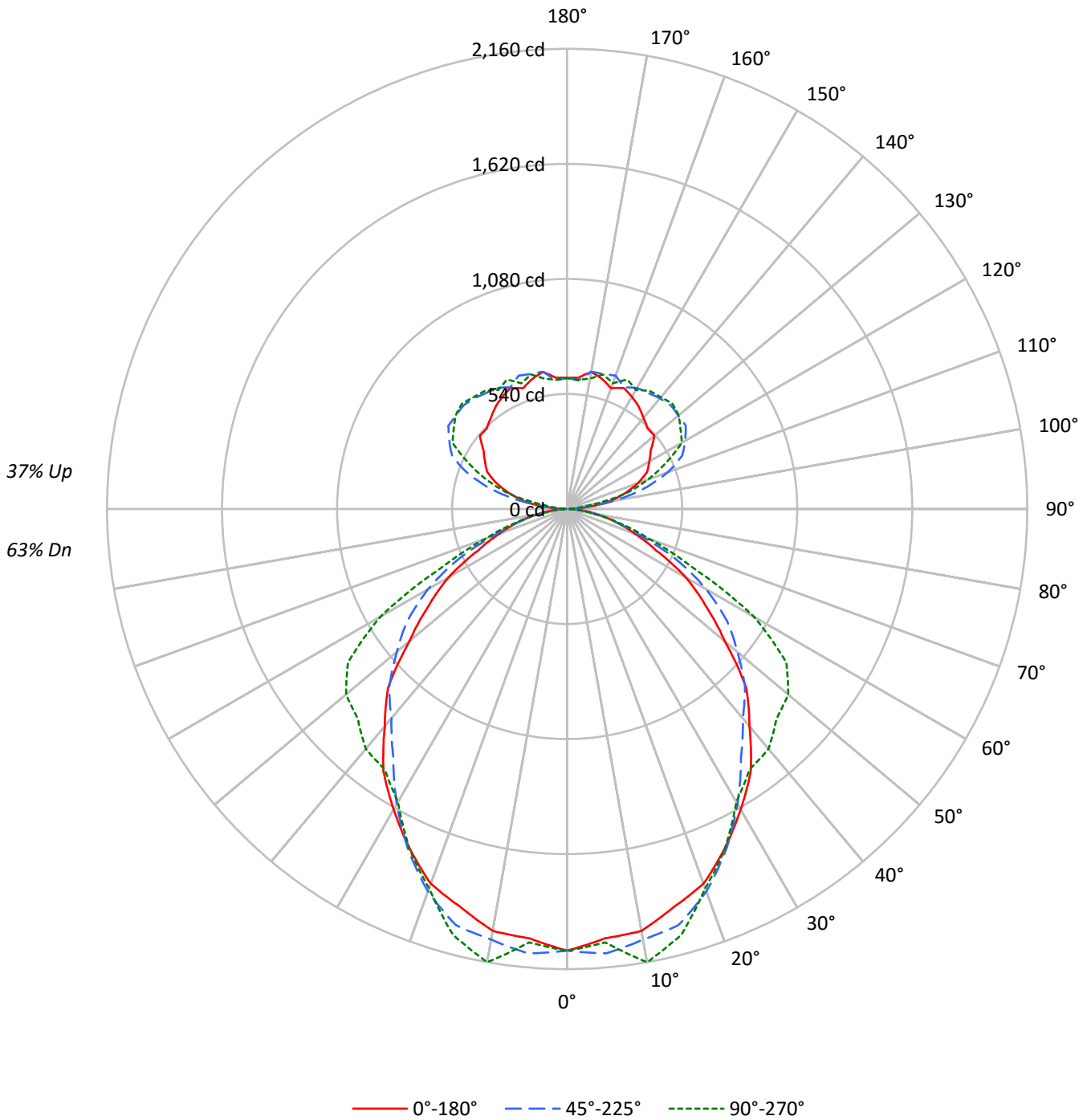
Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 8175.0 lumens  
Efficiency: 81.8%  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 118  
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



TEST NUMBER: CTL58840  
CATALOG NUMBER: NB-SW-2T5-DL8

### Luminous Intensity Polar Plot





TEST NUMBER: CTL58840

CATALOG NUMBER: NB-SW-2T5-DL8

**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	90	90	90	90	85	85	85	85	74	74	74	65	65	65	56	56	56	52
1	83	79	76	73	77	74	72	69	66	63	62	57	56	55	50	49	48	44
2	75	69	64	60	71	65	61	57	58	54	51	51	48	46	44	42	41	37
3	69	61	55	50	64	58	52	48	51	47	43	45	42	39	39	37	35	32
4	63	54	48	43	59	51	45	41	45	41	37	40	36	33	35	32	30	27
5	58	48	42	37	54	46	40	35	41	36	32	36	32	29	32	29	26	24
6	53	43	37	32	50	41	35	31	37	32	28	33	29	25	29	26	23	21
7	50	39	33	28	46	37	31	27	33	28	25	30	26	23	26	23	20	19
8	46	36	29	25	43	34	28	24	30	26	22	27	23	20	24	21	18	17
9	43	33	26	22	40	31	25	21	28	23	20	25	21	18	22	19	17	15
10	40	30	24	20	38	29	23	19	26	21	18	23	19	17	21	17	15	14

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

	0°	45°	90°
0°	7439	7439	7439
5°	7250	7369	7155
10°	7250	7142	7451
15°	7070	7007	7081
20°	6994	6648	6480
25°	6756	6210	6048
30°	6521	5738	5554
35°	6320	5247	5342
40°	5939	4905	5433
45°	5696	4724	5347
50°	5036	4412	5476
55°	4588	4144	5393
60°	4184	3693	4683
65°	3473	3077	3269
70°	3038	2205	2279
75°	2663	1616	1584
80°	2163	1059	906
85°	1481	501	401



TEST NUMBER: CTL58840

CATALOG NUMBER: NB-SW-2T5-DL8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	197.3	2.4	2.0
10°-20°	562.5	6.9	5.6
20°-30°	809.7	9.9	8.1
30°-40°	923.0	11.3	9.2
40°-50°	950.1	11.6	9.5
50°-60°	854.6	10.5	8.5
60°-70°	569.0	7.0	5.7
70°-80°	257.7	3.2	2.6
80°-90°	64.5	0.8	0.6
90°-100°	91.1	1.1	0.9
100°-110°	354.5	4.3	3.5
110°-120°	525.9	6.4	5.3
120°-130°	561.4	6.9	5.6
130°-140°	504.7	6.2	5.0
140°-150°	409.5	5.0	4.1
150°-160°	297.7	3.6	3.0
160°-170°	182.2	2.2	1.8
170°-180°	59.5	0.7	0.6
0°-30°	1569.5	19.2	15.7
0°-40°	2492.5	30.5	24.9
0°-60°	4297.2	52.6	43.0
0°-90°	5188.5	63.5	51.9
90°-120°	971.6	11.9	9.7
90°-150°	2447.1	29.9	24.5
90°-180°	2987.0	36.5	29.9
0°-180°	8175.0	100.0	81.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2023	2043	2094	2081	2042	193
15°	1934	1964	2022	2010	2070	548
25°	1754	1784	1765	1748	1755	808
35°	1503	1520	1423	1440	1492	934
45°	1190	1166	1181	1301	1390	903
55°	796	781	916	1134	1255	716
65°	462	494	571	655	649	471
75°	235	228	233	241	250	250
85°	61	52	50	45	45	68
90°	11	6	4	3	2	24
95°	90	92	62	41	31	101
105°	278	389	377	331	288	292
115°	415	542	597	549	511	403
125°	479	593	680	672	650	434
135°	534	593	688	696	699	418
145°	586	616	664	701	676	367
155°	627	632	630	651	669	285
165°	632	642	656	638	653	178
175°	619	629	605	630	608	60
180°	615	615	615	615	615	



TEST NUMBER: CTL58840

CATALOG NUMBER: NB-SW-2T5-DL8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2073.2	2073.2	2073.2	2073.2	2073.2
5°	2023.4	2042.6	2094.0	2081.2	2042.1
10°	2010.9	2064.4	2052.9	2076.4	2160.2
15°	1934.0	1964.4	2022.0	2009.6	2069.5
20°	1871.7	1904.2	1911.0	1889.0	1894.5
25°	1754.3	1784.5	1764.8	1747.8	1755.3
30°	1628.5	1645.4	1599.3	1556.6	1587.6
35°	1503.4	1520.2	1422.9	1440.2	1492.3
40°	1331.7	1345.2	1282.9	1370.6	1470.7
45°	1189.7	1166.5	1180.6	1300.7	1390.2
50°	966.6	969.6	1043.0	1224.2	1354.4
55°	796.1	781.2	916.1	1134.5	1255.3
60°	643.6	638.0	753.6	946.4	1013.6
65°	461.6	493.8	570.8	654.8	648.8
70°	337.2	347.0	365.0	405.2	407.9
75°	235.0	228.0	233.2	240.9	250.5
80°	140.2	133.5	129.2	135.2	123.2
85°	60.6	52.3	49.5	45.0	45.3
90°	10.6	6.0	3.5	3.4	2.4
95°	89.7	92.5	61.5	41.1	30.9
100°	198.0	246.4	228.1	173.8	123.5
105°	278.2	388.7	376.7	331.0	287.6
110°	352.4	480.9	502.5	444.9	402.9
115°	414.6	541.9	596.7	549.4	511.2
120°	445.2	585.7	638.5	624.2	620.8
125°	478.9	593.4	680.2	671.6	650.0
130°	534.1	629.5	681.4	698.3	683.1
135°	534.2	593.0	687.9	696.0	698.7
140°	557.4	630.8	677.3	692.8	684.3
145°	586.0	616.5	664.4	701.1	675.6
150°	608.1	629.6	655.8	668.7	644.5
155°	627.0	631.5	630.0	651.1	669.4
160°	603.2	636.1	665.6	672.2	627.7
165°	632.1	641.8	655.7	638.3	652.9
170°	653.1	630.0	653.8	610.1	621.0
175°	619.1	629.2	604.7	629.5	608.1
180°	614.8	614.8	614.8	614.8	614.8

(END OF REPORT)