

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: CTL58837

Luminaire Tested: **NB-SW-2T5-DL5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58837  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-2T5-DL5  
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**

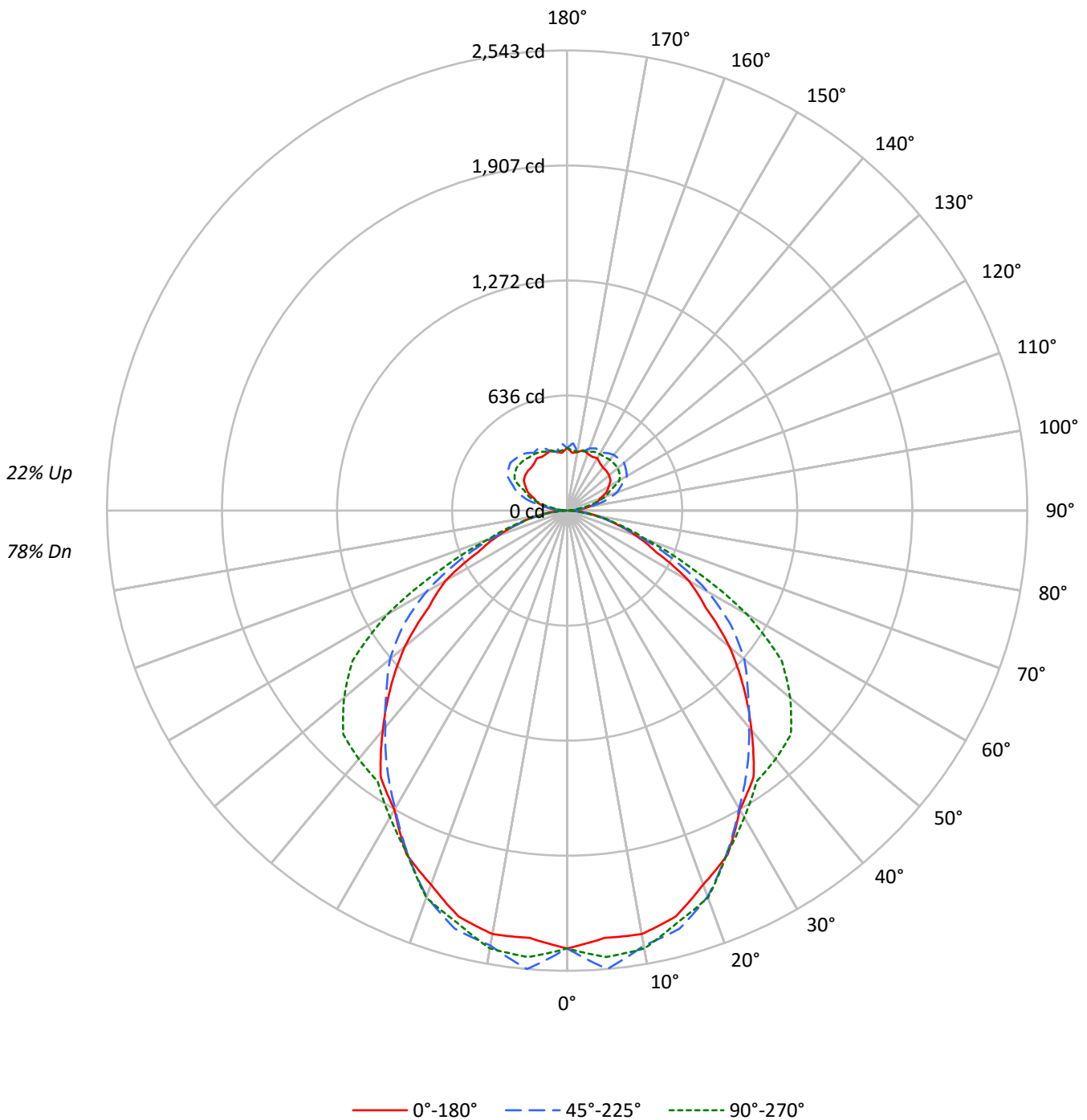
Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 7889.7 lumens  
Efficiency: 78.9%  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

Input Watts (W): 118  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: CTL58837  
CATALOG NUMBER: NB-SW-2T5-DL5

### Luminous Intensity Polar Plot





TEST NUMBER: CTL58837

CATALOG NUMBER: NB-SW-2T5-DL5

**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	86	86	86	86	78	78	78	71	71	71	65	65	65	62
1	83	79	76	73	79	76	73	70	69	67	65	63	62	60	58	57	55	53
2	75	69	64	60	72	66	62	58	61	57	54	56	53	51	51	49	47	45
3	69	61	55	50	66	59	53	49	54	50	46	50	46	43	46	43	40	38
4	63	54	48	43	60	52	46	42	48	43	39	44	40	37	41	37	35	33
5	58	49	42	37	55	47	41	36	43	38	34	40	36	32	37	33	30	28
6	54	44	37	32	51	42	36	32	39	34	30	36	32	28	33	30	27	25
7	50	40	33	29	47	38	32	28	35	30	26	33	28	25	31	27	24	22
8	46	36	30	25	44	35	29	25	32	27	24	30	26	23	28	24	21	20
9	43	33	27	23	41	32	26	22	30	25	21	28	23	20	26	22	19	18
10	40	31	25	21	39	30	24	20	28	23	19	26	22	19	24	20	18	16

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

	0°	45°	90°
0°	8682	8682	8682
5°	8494	8950	8677
10°	8568	8491	8475
15°	8486	8293	8063
20°	8219	7898	7786
25°	8079	7352	7204
30°	7642	6821	6849
35°	7552	6398	6538
40°	7071	5979	6620
45°	6599	5651	6727
50°	6103	5407	6508
55°	5389	4996	6219
60°	5047	4400	5305
65°	4088	3568	3863
70°	3639	2577	2558
75°	3057	1868	1867
80°	2624	1257	1150
85°	1848	585	436



TEST NUMBER: CTL58837

CATALOG NUMBER: NB-SW-2T5-DL5

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	234.7	3.0	2.3
10°-20°	669.4	8.5	6.7
20°-30°	965.3	12.2	9.7
30°-40°	1112.9	14.1	11.1
40°-50°	1146.6	14.5	11.5
50°-60°	1014.5	12.9	10.1
60°-70°	662.3	8.4	6.6
70°-80°	302.7	3.8	3.0
80°-90°	75.7	1.0	0.8
90°-100°	58.5	0.7	0.6
100°-110°	207.9	2.6	2.1
110°-120°	299.8	3.8	3.0
120°-130°	323.6	4.1	3.2
130°-140°	290.2	3.7	2.9
140°-150°	230.3	2.9	2.3
150°-160°	165.1	2.1	1.7
160°-170°	97.5	1.2	1.0
170°-180°	32.7	0.4	0.3
0°-30°	1869.4	23.7	18.7
0°-40°	2982.3	37.8	29.8
0°-60°	5143.4	65.2	51.4
0°-90°	6184.2	78.4	61.8
90°-120°	566.2	7.2	5.7
90°-150°	1410.3	17.9	14.1
90°-180°	1706.0	21.6	17.1
0°-180°	7889.7	100.0	78.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2420	2420	2420	2420	2420	
5°	2371	2458	2543	2478	2476	227
15°	2321	2390	2393	2432	2356	651
25°	2098	2133	2089	2080	2091	958
35°	1796	1798	1735	1763	1826	1110
45°	1378	1397	1412	1591	1749	1064
55°	935	939	1104	1332	1448	854
65°	543	570	662	745	767	561
75°	270	274	270	284	295	294
85°	76	65	58	51	49	83
90°	10	6	2	3	2	23
95°	74	62	44	28	19	68
105°	171	233	224	192	154	174
115°	239	310	332	320	261	232
125°	293	348	397	384	354	258
135°	308	364	404	395	367	238
145°	317	360	388	372	361	200
155°	328	342	379	362	358	153
165°	345	339	338	343	341	96
175°	320	327	374	343	333	31
180°	346	346	346	346	346	



TEST NUMBER: CTL58837

CATALOG NUMBER: NB-SW-2T5-DL5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2419.8	2419.8	2419.8	2419.8	2419.8
5°	2370.8	2458.4	2543.2	2478.5	2476.4
10°	2376.4	2448.0	2440.8	2494.4	2457.1
15°	2321.3	2389.7	2393.1	2432.3	2356.3
20°	2199.6	2244.3	2270.5	2253.5	2276.1
25°	2097.8	2132.8	2089.2	2079.9	2090.6
30°	1908.3	1965.5	1901.3	1892.1	1957.8
35°	1796.4	1798.2	1735.0	1762.8	1826.5
40°	1585.5	1593.4	1563.7	1665.2	1792.1
45°	1378.4	1396.7	1412.2	1590.7	1749.0
50°	1171.4	1155.9	1278.2	1479.2	1609.5
55°	935.2	939.1	1104.4	1332.5	1447.5
60°	776.2	767.5	898.0	1076.0	1148.1
65°	543.4	570.2	661.9	744.8	766.6
70°	403.9	420.8	426.7	469.4	457.7
75°	269.8	274.4	269.6	283.5	295.2
80°	170.1	162.8	153.3	144.8	156.5
85°	75.6	65.2	57.8	51.0	49.2
90°	9.6	5.5	2.1	2.6	1.6
95°	74.5	61.7	44.1	27.8	18.6
100°	123.4	146.8	131.3	107.0	72.6
105°	171.4	233.0	224.5	191.7	154.1
110°	193.0	284.8	292.7	257.1	225.0
115°	238.6	309.6	331.8	319.7	261.4
120°	265.2	337.7	380.8	355.6	334.2
125°	292.8	348.0	396.8	384.0	353.5
130°	302.2	351.8	409.9	401.7	365.8
135°	308.5	363.8	404.0	395.2	366.9
140°	309.3	358.8	401.8	397.9	367.1
145°	317.4	360.3	388.0	371.8	361.0
150°	333.7	359.8	368.1	372.0	360.6
155°	327.8	342.5	378.6	361.8	357.8
160°	333.9	349.4	365.0	349.3	346.7
165°	345.0	339.1	338.5	343.3	340.6
170°	328.0	368.2	329.1	338.4	331.5
175°	320.2	326.7	373.7	342.8	333.4
180°	345.7	345.7	345.7	345.7	345.7

(END OF REPORT)