

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: CTL58838

Luminaire Tested: **NB-SW-2T5-DL6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58838  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-2T5-DL6  
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**

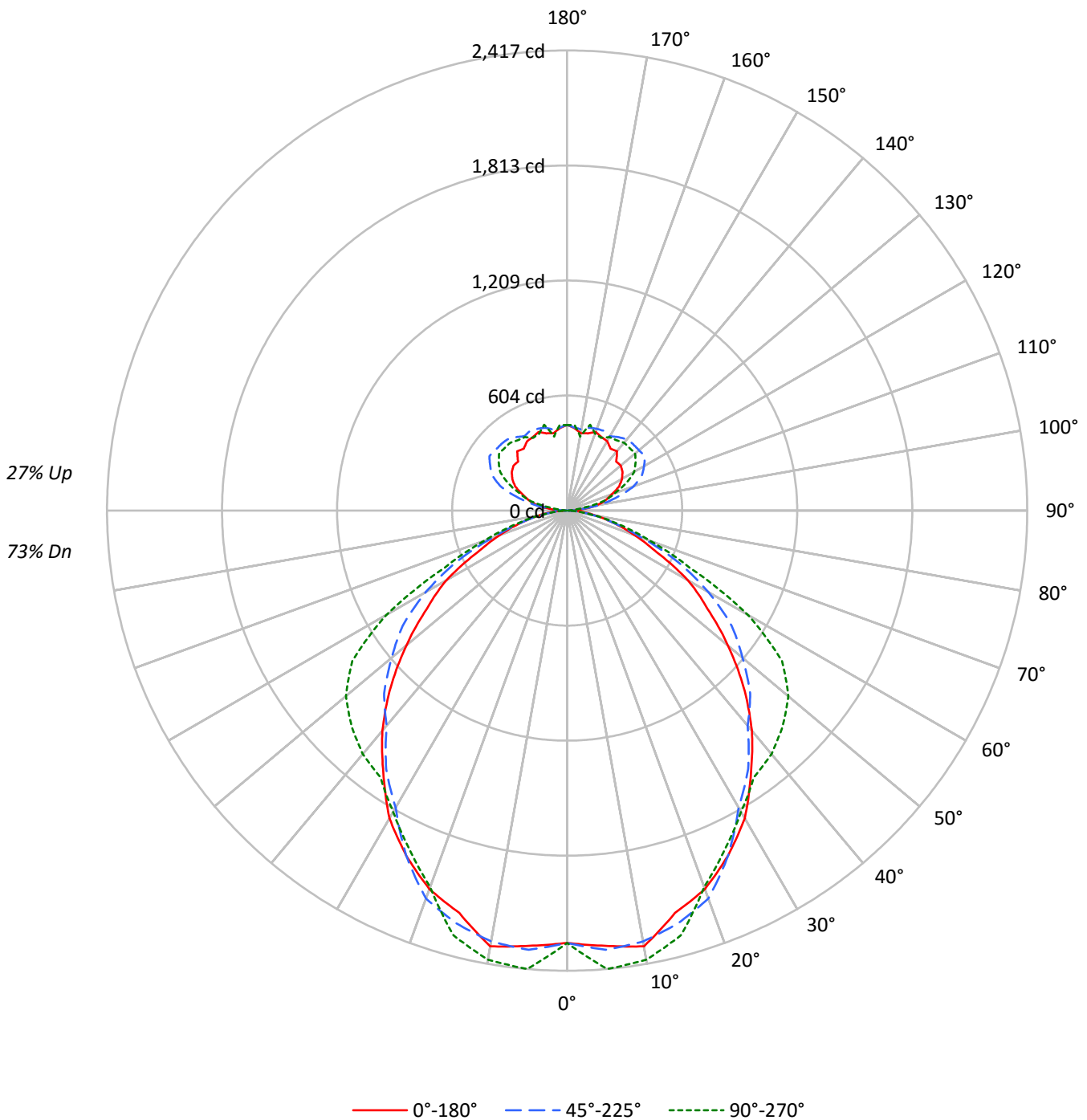
Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 7982.6 lumens  
Efficiency: 79.8%  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Semi-Direct

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



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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	90	90	90	90	85	85	85	85	77	77	77		69	69	69		62	62	62	59
1	83	79	76	73	78	75	73	70	68	66	64		61	60	58		55	54	53	50
2	75	69	64	60	71	66	62	58	60	56	53		54	51	49		49	47	45	42
3	69	61	55	50	65	58	53	49	53	49	45		48	45	42		43	41	38	36
4	63	54	48	43	60	52	46	41	47	42	39		43	39	36		39	36	33	31
5	58	48	42	37	55	46	40	36	42	37	33		39	34	31		35	32	29	27
6	54	44	37	32	51	42	36	31	38	33	29		35	31	27		32	28	26	24
7	50	40	33	28	47	38	32	28	35	30	26		32	28	24		29	26	23	21
8	46	36	30	25	44	35	29	25	32	27	23		29	25	22		27	23	20	19
9	43	33	27	23	41	32	26	22	29	24	21		27	23	20		25	21	18	17
10	40	30	24	20	38	29	24	20	27	22	19		25	21	18		23	19	17	15

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

	0°	45°	90°
0°	8148	8148	8148
5°	8221	8149	8468
10°	8379	7994	8260
15°	8001	7781	7902
20°	7904	7543	7196
25°	7701	7039	6760
30°	7473	6464	6392
35°	7076	6112	6121
40°	6732	5638	6166
45°	6275	5441	6158
50°	5743	5087	6131
55°	5188	4776	5922
60°	4770	4199	5075
65°	3903	3476	3582
70°	3386	2509	2581
75°	2863	1750	1785
80°	2383	1190	1069
85°	1755	532	401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	221.8	2.8	2.2
10°-20°	631.3	7.9	6.3
20°-30°	915.4	11.5	9.2
30°-40°	1054.7	13.2	10.5
40°-50°	1083.2	13.6	10.8
50°-60°	964.0	12.1	9.6
60°-70°	633.5	7.9	6.3
70°-80°	287.5	3.6	2.9
80°-90°	71.8	0.9	0.7
90°-100°	72.3	0.9	0.7
100°-110°	258.7	3.2	2.6
110°-120°	376.4	4.7	3.8
120°-130°	402.2	5.0	4.0
130°-140°	356.6	4.5	3.6
140°-150°	285.1	3.6	2.9
150°-160°	205.3	2.6	2.1
160°-170°	122.5	1.5	1.2
170°-180°	40.4	0.5	0.4
0°-30°	1768.5	22.2	17.7
0°-40°	2823.2	35.4	28.2
0°-60°	4870.4	61.0	48.7
0°-90°	5863.2	73.4	58.6
90°-120°	707.4	8.9	7.1
90°-150°	1751.3	21.9	17.5
90°-180°	2119.0	26.5	21.2
0°-180°	7982.6	100.0	79.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2294	2272	2316	2375	2417	220
15°	2188	2239	2245	2231	2309	622
25°	2000	2044	2000	1945	1962	921
35°	1683	1708	1657	1659	1710	1055
45°	1311	1300	1360	1501	1601	1010
55°	900	894	1056	1252	1378	813
65°	519	555	645	709	711	531
75°	253	257	253	272	282	273
85°	72	62	52	46	45	77
90°	11	6	3	2	2	24
95°	79	78	52	34	23	83
105°	208	293	270	234	206	217
115°	301	398	433	379	343	293
125°	355	442	498	473	438	316
135°	364	438	491	488	464	291
145°	397	437	470	481	451	254
155°	426	451	461	447	422	198
165°	420	422	450	419	467	120
175°	435	415	438	396	450	41
180°	450	450	450	450	450	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2271.0	2271.0	2271.0	2271.0	2271.0
5°	2294.4	2272.3	2315.7	2375.3	2416.9
10°	2324.1	2299.2	2298.0	2380.7	2394.8
15°	2188.4	2239.1	2245.2	2230.6	2309.4
20°	2115.3	2107.4	2168.3	2119.5	2103.8
25°	1999.6	2043.9	2000.4	1945.2	1961.7
30°	1866.2	1880.3	1801.8	1779.6	1827.2
35°	1683.1	1707.9	1657.3	1658.9	1710.0
40°	1509.6	1538.7	1474.6	1579.5	1669.3
45°	1310.8	1300.4	1359.7	1500.9	1601.2
50°	1102.3	1115.0	1202.6	1387.4	1516.5
55°	900.3	894.2	1055.9	1251.7	1378.4
60°	733.6	733.2	857.0	1034.5	1098.4
65°	518.8	555.2	644.8	708.9	710.9
70°	375.9	383.2	415.3	444.0	461.9
75°	252.7	257.2	252.6	272.4	282.2
80°	154.5	157.0	145.2	147.1	145.5
85°	71.8	61.5	52.5	46.3	45.3
90°	11.1	5.7	3.1	2.2	2.2
95°	79.1	78.1	51.5	33.6	22.9
100°	157.7	194.3	170.9	126.2	92.8
105°	207.7	293.4	270.1	233.6	206.5
110°	249.2	356.8	371.3	310.5	265.6
115°	301.1	398.0	432.8	379.3	343.4
120°	332.1	432.0	466.6	446.4	406.6
125°	354.7	442.4	498.4	472.8	438.4
130°	367.3	444.1	492.3	489.6	466.2
135°	364.4	437.9	491.4	487.5	464.1
140°	407.5	447.8	488.2	490.8	465.2
145°	396.6	437.3	470.5	481.4	450.8
150°	420.6	430.9	450.3	451.2	445.1
155°	425.6	451.0	461.0	447.2	421.6
160°	438.9	432.6	456.8	441.6	429.9
165°	419.6	422.5	450.4	418.6	466.8
170°	412.5	413.3	432.2	410.4	394.8
175°	434.8	415.0	437.8	395.8	449.8
180°	449.7	449.7	449.7	449.7	449.7

(END OF REPORT)