

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: CTL58859

Luminaire Tested: **NB-SW-3T5-DUD-1 INBOARD ONLY**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: CTL58859  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: NB-SW-3T5-DUD-1 INBOARD ONLY  
Description: NAVIGATOR II SUSPENDED LUMINAIRE  
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS  
  
Light Source: 54 WATT T5 LAMP  
FP54T5/835HO. LUMEN RATING = 5000 LMS.  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 5000 (1 lamp)  
Luminaire Lumens: 3241.6 lumens  
Efficiency: 64.8%  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')  
CIE Type: Indirect

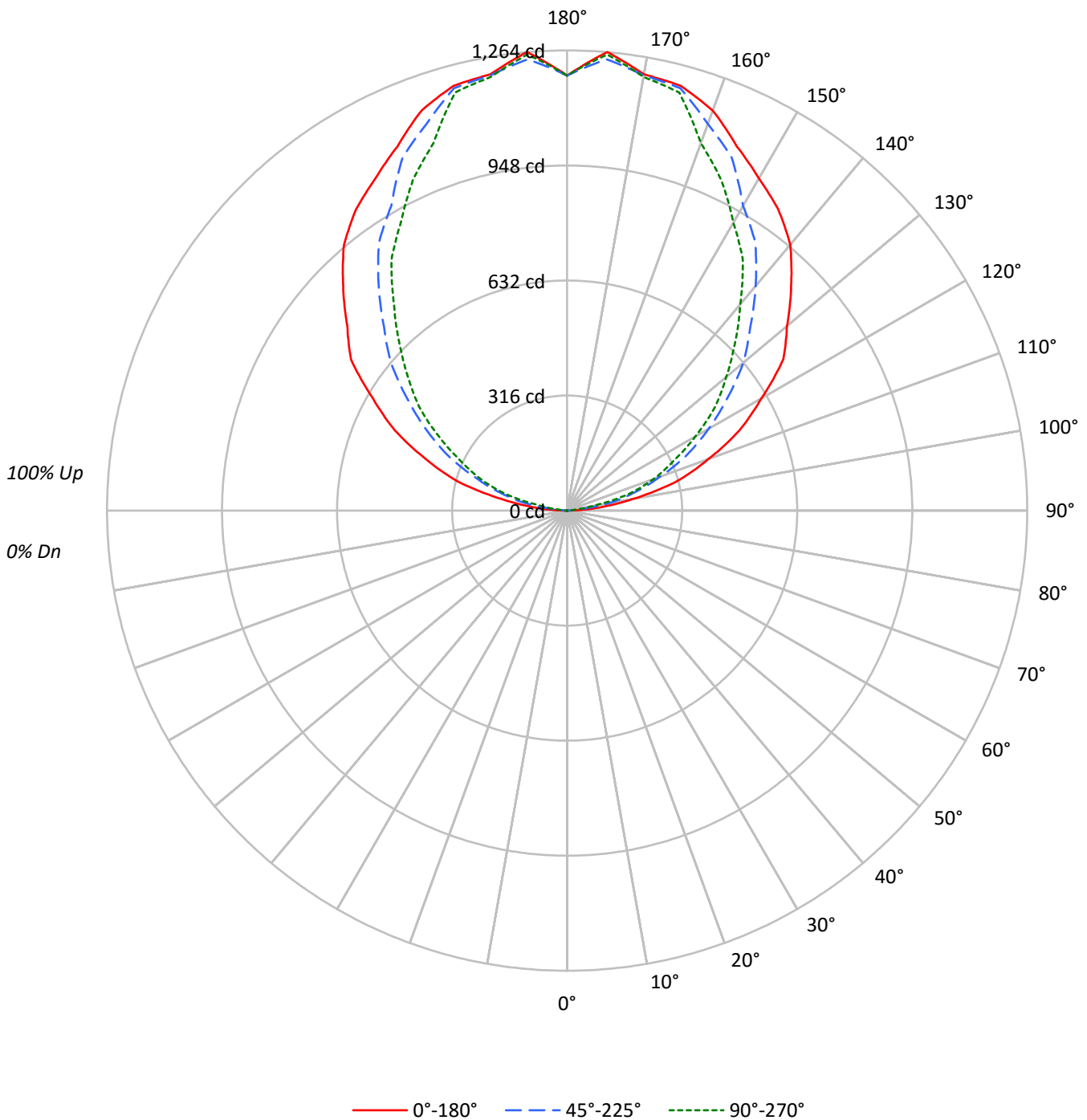
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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													
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10										
RCR																														
0	62	62	62	62	53	53	53	53	36	36	36	21	21	21	7	7	7	0												
1	56	54	51	49	48	46	44	42	31	30	29	18	18	17	6	6	6	0												
2	51	47	43	40	43	40	37	35	27	26	24	16	15	14	5	5	5	0												
3	47	41	37	33	40	35	32	29	24	22	20	14	13	12	4	4	4	0												
4	42	36	31	28	36	31	27	24	21	19	17	12	11	10	4	4	3	0												
5	39	32	27	24	33	27	23	21	19	16	14	11	10	9	4	3	3	0												
6	36	28	24	20	30	24	20	18	17	14	12	10	8	7	3	3	2	0												
7	33	25	21	17	28	22	18	15	15	13	11	9	7	6	3	2	2	0												
8	30	23	18	15	26	20	16	13	14	11	9	8	7	6	3	2	2	0												
9	28	21	16	13	24	18	14	12	12	10	8	7	6	5	2	2	2	0												
10	26	19	14	12	22	16	13	10	11	9	7	7	5	4	2	2	1	0												

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

	0°	45°	90°
0°	0	0	0
5°	0	1	2
10°	1	1	2
15°	0	0	1
20°	0	0	2
25°	0	0	2
30°	2	1	1
35°	0	0	1
40°	1	1	1
45°	0	0	0
50°	3	0	0
55°	1	1	0
60°	2	0	0
65°	1	1	1
70°	1	1	0
75°	1	0	0
80°	2	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.1	0.0	0.0
30°-40°	0.1	0.0	0.0
40°-50°	0.1	0.0	0.0
50°-60°	0.1	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.3	0.0	0.0
90°-100°	46.8	1.4	0.9
100°-110°	220.6	6.8	4.4
110°-120°	384.6	11.9	7.7
120°-130°	510.1	15.7	10.2
130°-140°	573.0	17.7	11.5
140°-150°	569.1	17.6	11.4
150°-160°	487.9	15.1	9.8
160°-170°	332.1	10.2	6.6
170°-180°	116.3	3.6	2.3
0°-30°	0.2	0.0	0.0
0°-40°	0.3	0.0	0.0
0°-60°	0.6	0.0	0.0
0°-90°	1.0	0.0	0.0
90°-120°	652.1	20.1	13.0
90°-150°	2304.3	71.1	46.1
90°-180°	3241.0	100.0	64.8
0°-180°	3241.6	100.0	64.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	1	1	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	5	1	0	0	0	12
95°	79	53	14	2	2	92
105°	313	233	190	175	174	322
115°	523	429	364	337	322	514
125°	725	636	536	502	496	639
135°	870	826	711	661	652	673
145°	1011	990	901	831	841	632
155°	1104	1110	1070	1007	1002	511
165°	1208	1168	1201	1149	1189	340
175°	1264	1211	1244	1195	1257	118
180°	1195	1195	1195	1195	1195	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.3	0.8	0.6
10°	0.4	0.2	0.2	0.1	0.7
15°	0.0	0.0	0.1	0.2	0.4
20°	0.0	0.1	0.1	0.3	0.5
25°	0.0	0.1	0.0	0.1	0.5
30°	0.5	0.2	0.4	0.2	0.4
35°	0.0	0.2	0.0	0.2	0.4
40°	0.3	0.2	0.2	0.2	0.4
45°	0.1	0.4	0.0	0.3	0.1
50°	0.5	0.0	0.1	0.1	0.1
55°	0.2	0.1	0.2	0.4	0.1
60°	0.3	0.1	0.1	0.1	0.0
65°	0.1	0.0	0.1	0.0	0.1
70°	0.1	0.2	0.1	0.0	0.0
75°	0.1	0.0	0.0	0.0	0.0
80°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
90°	5.1	0.8	0.3	0.2	0.2
95°	79.1	52.8	14.0	2.2	2.4
100°	182.3	140.5	116.2	82.0	69.6
105°	313.0	233.0	190.4	175.2	174.3
110°	412.3	337.3	271.4	255.5	252.2
115°	522.8	429.4	363.7	337.4	322.4
120°	615.8	538.1	448.3	414.1	405.9
125°	725.1	636.0	536.1	502.1	496.1
130°	788.2	740.4	631.6	587.0	570.3
135°	870.1	825.8	711.2	660.6	652.0
140°	953.8	906.2	805.5	753.7	740.0
145°	1010.8	989.7	900.6	831.2	841.4
150°	1053.4	1056.0	966.1	921.0	913.2
155°	1103.5	1110.2	1069.7	1007.3	1002.0
160°	1169.5	1165.5	1130.0	1097.2	1073.7
165°	1207.6	1168.1	1201.0	1149.0	1189.0
170°	1216.5	1195.2	1213.9	1232.2	1209.3
175°	1264.4	1211.2	1244.1	1194.9	1257.3
180°	1195.1	1195.1	1195.1	1195.1	1195.1

(END OF REPORT)