

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: CTL58868

Luminaire Tested: **NB-SW-3T5-UDU-2 OUTBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58868
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-UDU-2 OUTBOARD 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 (2 lamps)
Luminaire Lumens: 6481.7 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

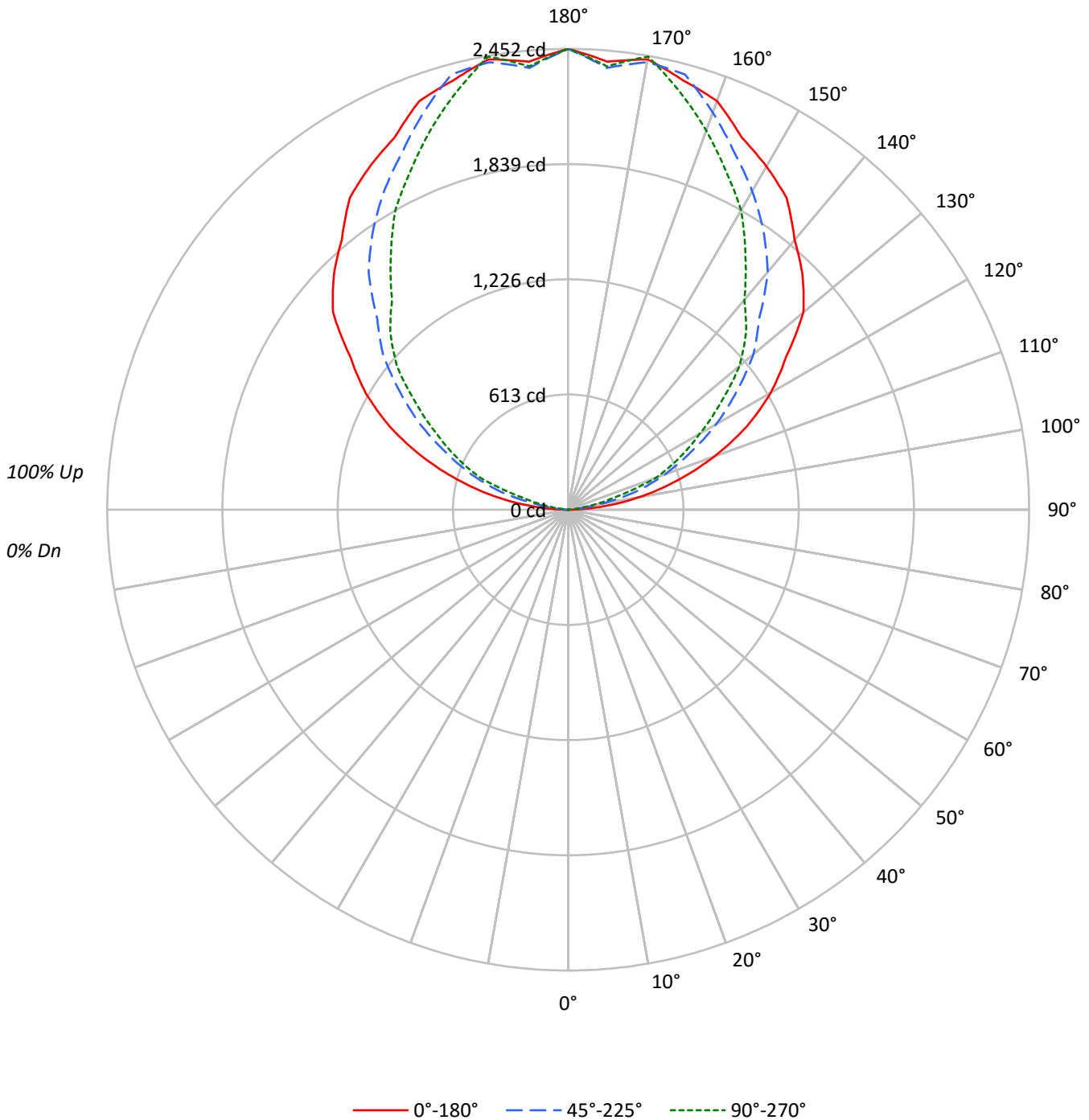
Input Watts (W): 118
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	46	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	0	0
10°	3	1	0
15°	0	1	0
20°	1	1	1
25°	2	0	1
30°	0	2	1
35°	1	1	2
40°	0	1	2
45°	2	1	1
50°	2	0	1
55°	0	0	1
60°	1	0	0
65°	0	0	0
70°	0	1	1
75°	0	1	1
80°	3	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°	0.1	0.0	0.0
20°-30°	0.1	0.0	0.0
30°-40°	0.2	0.0	0.0
40°-50°	0.2	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°	0.6	0.0	0.0
90°-100°	87.7	1.4	0.9
100°-110°	418.9	6.5	4.2
110°-120°	770.0	11.9	7.7
120°-130°	1027.1	15.8	10.3
130°-140°	1159.6	17.9	11.6
140°-150°	1144.6	17.7	11.4
150°-160°	977.2	15.1	9.8
160°-170°	663.3	10.2	6.6
170°-180°	231.8	3.6	2.3
0°-30°	0.2	0.0	0.0
0°-40°	0.4	0.0	0.0
0°-60°	0.8	0.0	0.0
0°-90°	1.5	0.0	0.0
90°-120°	1276.6	19.7	12.8
90°-150°	4608.0	71.1	46.1
90°-180°	6480.0	100.0	64.8
0°-180°	6481.7	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	0	0
15°	0	1	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	1
90°	8	2	1	1	1	25
95°	164	88	41	19	13	192
105°	598	464	372	312	259	635
115°	1047	871	714	672	651	1031
125°	1414	1287	1092	1013	988	1277
135°	1763	1656	1436	1355	1339	1360
145°	2025	1982	1810	1689	1645	1259
155°	2185	2248	2094	2062	1986	1015
165°	2365	2336	2398	2367	2300	670
175°	2393	2507	2360	2452	2368	231
180°	2452	2452	2452	2452	2452	



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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	0.0	1.4	0.0
10°	0.8	0.0	0.2	0.0	0.0
15°	0.0	1.0	0.3	0.0	0.0
20°	0.4	0.4	0.4	0.2	0.4
25°	0.4	0.3	0.0	0.4	0.3
30°	0.0	0.6	0.6	0.1	0.2
35°	0.3	0.2	0.3	0.4	0.5
40°	0.0	0.2	0.3	0.4	0.5
45°	0.4	0.0	0.3	0.3	0.2
50°	0.3	0.0	0.0	0.6	0.3
55°	0.0	0.2	0.0	0.2	0.2
60°	0.1	0.4	0.1	0.1	0.0
65°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.1
80°	0.2	0.0	0.0	0.1	0.0
85°	0.0	0.1	0.0	0.0	0.0
90°	7.9	2.1	1.4	1.0	1.2
95°	163.7	87.5	40.7	18.8	13.1
100°	384.1	276.6	169.8	114.6	111.5
105°	598.5	463.9	372.2	312.1	259.3
110°	826.0	665.4	545.4	519.3	496.4
115°	1047.4	871.2	713.5	671.7	650.6
120°	1244.1	1069.8	907.4	836.8	807.5
125°	1413.8	1286.7	1092.1	1012.6	988.5
130°	1632.8	1466.9	1285.4	1175.1	1188.6
135°	1763.4	1655.9	1435.5	1355.0	1338.7
140°	1874.0	1835.5	1651.7	1531.2	1457.1
145°	2025.3	1981.5	1810.4	1689.4	1644.6
150°	2108.9	2133.9	1957.7	1846.9	1839.8
155°	2185.1	2247.8	2093.7	2062.3	1985.9
160°	2314.2	2328.1	2248.8	2182.2	2146.4
165°	2364.7	2336.0	2397.6	2367.1	2300.2
170°	2433.1	2409.8	2418.1	2427.2	2448.6
175°	2392.8	2506.7	2359.9	2452.0	2368.2
180°	2452.0	2452.0	2452.0	2452.0	2452.0

(END OF REPORT)