

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: CTL58863

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58863
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-UXU-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: 6495.0 lumens
Efficiency: 64.9%
Efficacy: 55.0 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

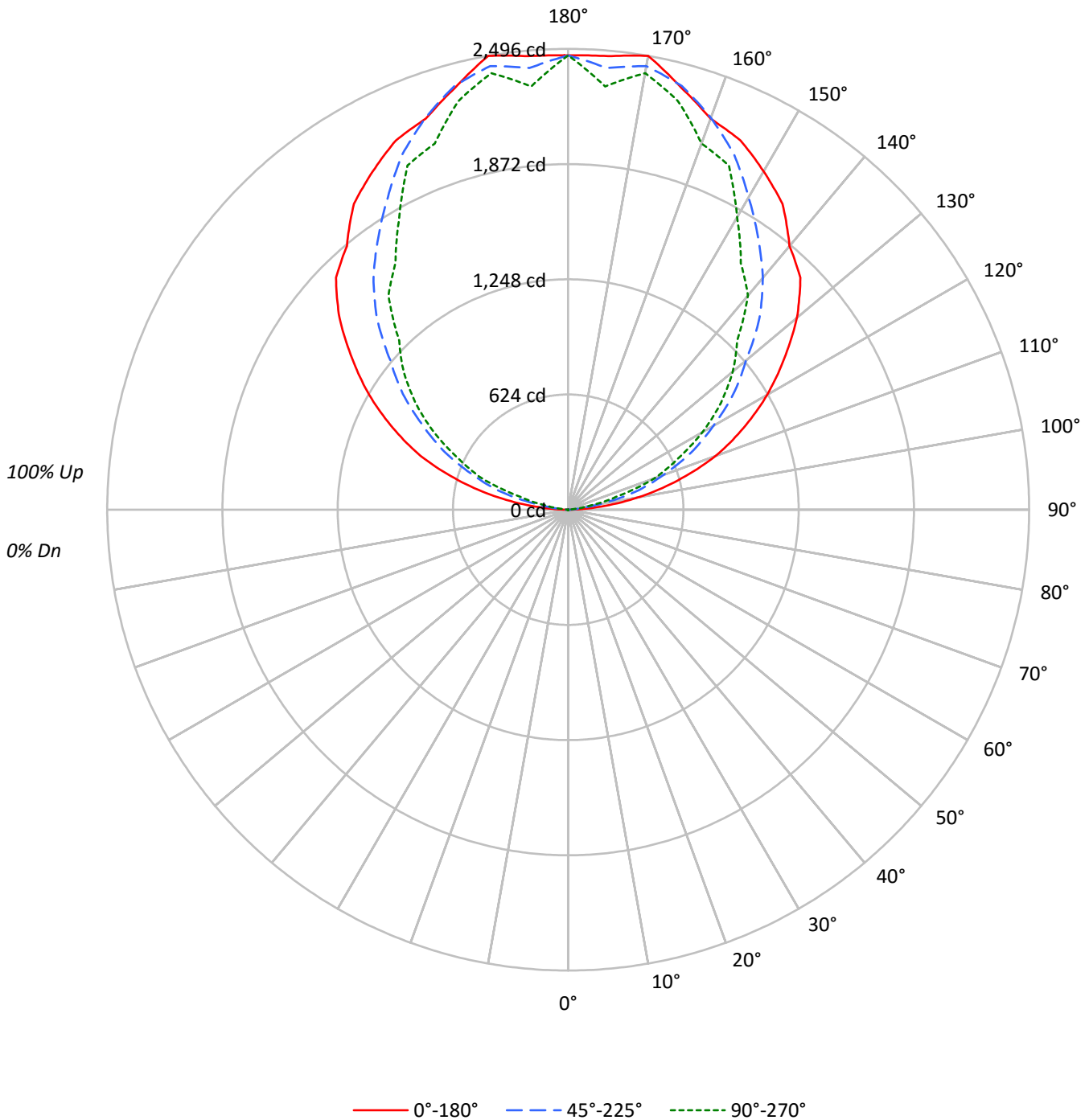
Input Watts (W): 118
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	2	3
15°	0	0	2
20°	0	4	1
25°	1	1	1
30°	0	1	1
35°	2	3	0
40°	0	0	3
45°	3	2	2
50°	1	1	3
55°	3	3	3
60°	1	1	0
65°	2	2	1
70°	0	1	0
75°	0	1	0
80°	0	1	1
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°	0.2	0.0	0.0
30°-40°	0.2	0.0	0.0
40°-50°	0.3	0.0	0.0
50°-60°	0.3	0.0	0.0
60°-70°	0.2	0.0	0.0
70°-80°	0.1	0.0	0.0
80°-90°	0.8	0.0	0.0
90°-100°	86.9	1.3	0.9
100°-110°	423.2	6.5	4.2
110°-120°	773.2	11.9	7.7
120°-130°	1028.9	15.8	10.3
130°-140°	1160.6	17.9	11.6
140°-150°	1145.9	17.6	11.5
150°-160°	979.3	15.1	9.8
160°-170°	662.8	10.2	6.6
170°-180°	232.0	3.6	2.3
0°-30°	0.3	0.0	0.0
0°-40°	0.5	0.0	0.0
0°-60°	1.1	0.0	0.0
0°-90°	2.1	0.0	0.0
90°-120°	1283.3	19.8	12.8
90°-150°	4618.8	71.1	46.2
90°-180°	6493.0	100.0	64.9
0°-180°	6495.0	100.0	64.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	1	0	0	0	0
15°	0	0	0	1	0	0
25°	0	0	0	0	0	0
35°	0	0	1	0	0	0
45°	1	0	0	0	1	0
55°	0	0	1	0	1	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	9	3	1	1	0	24
95°	156	89	34	19	14	191
105°	616	477	381	307	268	651
115°	1047	869	735	675	655	1037
125°	1428	1280	1092	1021	1009	1280
135°	1778	1652	1464	1362	1294	1360
145°	2023	1999	1794	1697	1630	1258
155°	2207	2231	2124	2041	2058	1015
165°	2366	2421	2376	2324	2293	669
175°	2466	2391	2401	2528	2302	236
180°	2460	2460	2460	2460	2460	



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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	1.3	0.0	0.0	0.0
10°	0.0	0.0	0.7	0.0	0.9
15°	0.0	0.4	0.0	0.6	0.5
20°	0.0	0.3	1.2	0.7	0.4
25°	0.3	0.1	0.3	0.2	0.3
30°	0.0	0.2	0.2	0.6	0.3
35°	0.4	0.3	0.7	0.4	0.0
40°	0.0	0.3	0.1	0.5	0.8
45°	0.7	0.2	0.4	0.2	0.6
50°	0.2	0.4	0.2	0.6	0.8
55°	0.5	0.2	0.6	0.3	0.7
60°	0.1	0.2	0.3	0.1	0.1
65°	0.3	0.0	0.4	0.3	0.1
70°	0.0	0.2	0.2	0.1	0.0
75°	0.0	0.0	0.1	0.0	0.0
80°	0.0	0.0	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.1	0.0
90°	9.1	3.4	1.1	1.3	0.4
95°	155.5	89.3	33.8	19.3	14.5
100°	384.5	278.9	171.4	114.1	111.0
105°	615.5	476.6	380.7	307.4	268.1
110°	849.8	663.2	545.9	510.2	499.5
115°	1046.7	868.9	735.1	675.3	655.4
120°	1244.5	1065.4	906.5	824.4	839.7
125°	1427.6	1280.0	1092.2	1021.1	1009.1
130°	1617.0	1494.0	1256.6	1193.2	1163.4
135°	1777.9	1651.6	1464.0	1362.0	1294.2
140°	1864.2	1833.2	1639.8	1513.9	1513.7
145°	2022.8	1999.0	1793.8	1697.1	1630.4
150°	2116.2	2124.5	1953.4	1906.1	1828.6
155°	2207.0	2230.9	2124.0	2041.1	2057.9
160°	2253.5	2282.6	2258.4	2206.0	2110.9
165°	2366.1	2420.7	2376.5	2323.7	2293.1
170°	2495.6	2368.2	2439.4	2449.0	2400.9
175°	2465.7	2390.8	2401.4	2528.4	2301.8
180°	2460.5	2460.5	2460.5	2460.5	2460.5

(END OF REPORT)