

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: 89176

Luminaire Tested: **E2-SB-3T5-XUX-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89176
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-XUX-1
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

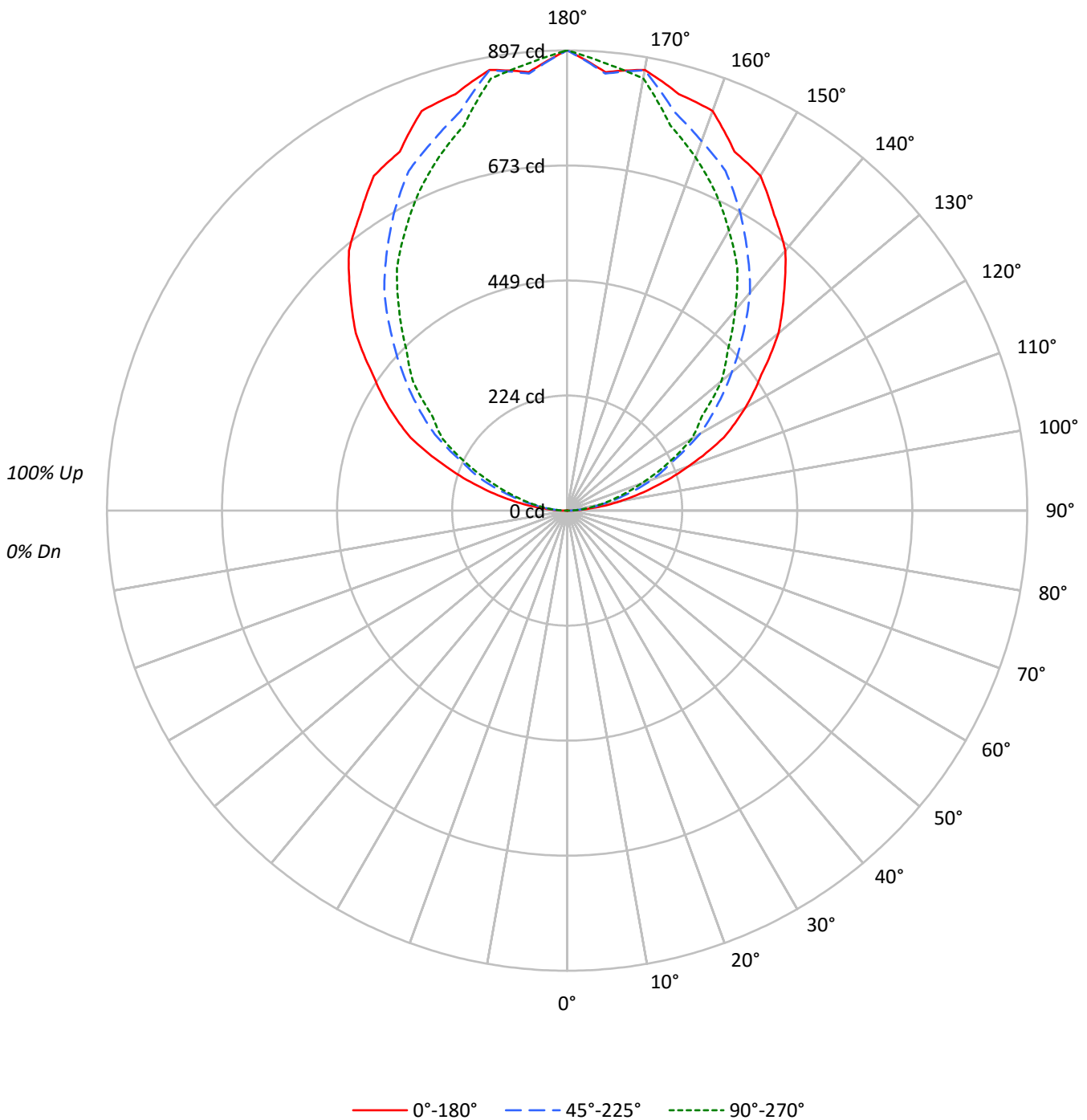
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2187.8 lumens
Efficiency: 48.6%
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Indirect

Input Watts (W): 59
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			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	46	46	46	46	40	40	40	40	27	27	27	16	16	16	5	5	5	0
1	42	40	38	37	36	34	33	32	24	23	22	14	13	13	4	4	4	0
2	38	35	32	30	33	30	28	26	21	19	18	12	11	11	4	4	3	0
3	35	31	27	25	30	26	24	22	18	16	15	10	10	9	3	3	3	0
4	32	27	24	21	27	23	20	18	16	14	13	9	8	8	3	3	2	0
5	29	24	20	18	25	21	18	15	14	12	11	8	7	6	3	2	2	0
6	27	21	18	15	23	18	15	13	13	11	9	7	6	6	2	2	2	0
7	25	19	16	13	21	16	13	11	11	9	8	7	6	5	2	2	2	0
8	23	17	14	11	19	15	12	10	10	8	7	6	5	4	2	2	1	0
9	21	16	12	10	18	13	11	9	9	7	6	5	4	4	2	1	1	0
10	19	14	11	9	17	12	9	8	8	7	5	5	4	3	2	1	1	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	1	0	0
60°	2	0	0
65°	2	0	0
70°	0	0	0
75°	0	0	0
80°	0	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°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.9	0.0	0.0
90°-100°	38.0	1.7	0.8
100°-110°	134.4	6.1	3.0
110°-120°	246.4	11.3	5.5
120°-130°	338.0	15.4	7.5
130°-140°	389.4	17.8	8.7
140°-150°	391.0	17.9	8.7
150°-160°	337.5	15.4	7.5
160°-170°	229.5	10.5	5.1
170°-180°	82.7	3.8	1.8
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.9	0.0	0.0
90°-120°	418.8	19.1	9.3
90°-150°	1537.2	70.3	34.2
90°-180°	2187.0	100.0	48.6
0°-180°	2187.8	100.0	48.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	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°	4	3	3	3	3	7
95°	44	32	29	28	29	52
105°	173	137	116	107	103	185
115°	337	273	227	214	215	328
125°	462	417	357	344	320	417
135°	598	552	484	457	443	463
145°	704	669	613	568	578	442
155°	772	770	730	691	684	361
165°	841	822	805	791	777	239
175°	858	876	855	880	875	83
180°	897	897	897	897	897	



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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	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
55°	0.2	0.0	0.0	0.0	0.0
60°	0.3	0.1	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
90°	3.8	3.3	3.1	3.0	3.2
95°	43.5	31.6	28.6	28.3	29.2
100°	104.3	80.4	66.1	65.1	62.6
105°	173.4	136.6	116.5	107.1	103.0
110°	251.0	206.8	176.6	160.8	152.6
115°	336.6	272.6	226.7	214.1	215.3
120°	401.1	341.8	297.9	277.7	280.6
125°	462.2	417.3	356.7	343.7	320.4
130°	537.5	480.7	418.9	402.2	392.4
135°	597.8	551.9	483.9	456.7	443.1
140°	661.8	614.1	554.5	521.0	509.5
145°	703.8	669.1	613.0	567.9	578.3
150°	753.3	717.5	673.2	646.9	630.7
155°	771.9	770.2	730.5	691.2	684.4
160°	829.0	832.8	766.2	756.0	732.3
165°	840.7	821.5	805.1	791.2	777.4
170°	872.3	854.8	871.5	818.0	855.2
175°	857.9	875.6	855.0	880.5	874.6
180°	897.2	897.2	897.2	897.2	897.2

(END OF REPORT)