

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: 89170

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89170
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-UXU-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

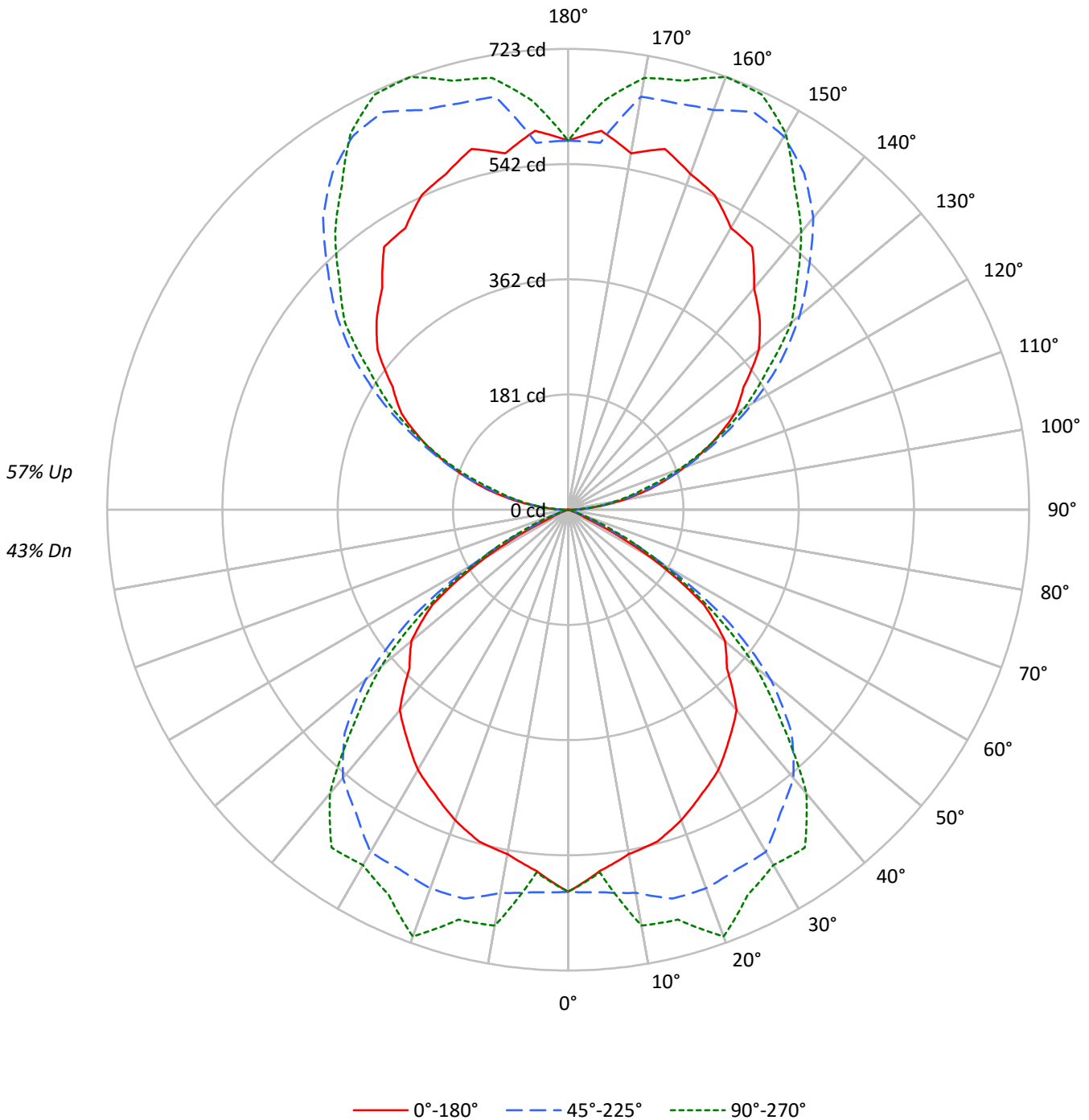
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 3693.1 lumens
Efficiency: 82.1%
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.56 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: General Diffuse

Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: 89170
CATALOG NUMBER: E2-SB-3T5-UXU-1

Luminous Intensity Polar Plot





TEST NUMBER: 89170

CATALOG NUMBER: E2-SB-3T5-UXU-1

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	86	86	86	86	79	79	79	79	65	65	65		52	52	52		40	40	40	35
1	80	76	74	71	73	70	68	65	58	56	55		47	46	45		37	36	36	31
2	73	67	63	59	67	62	58	55	52	49	46		42	40	39		33	32	31	27
3	67	60	54	50	61	55	50	46	46	42	40		38	35	33		30	28	27	23
4	61	53	47	42	56	49	44	39	41	37	34		34	31	29		27	25	23	20
5	56	47	41	36	51	44	38	34	37	33	29		30	27	25		24	22	21	18
6	52	42	36	32	47	39	34	30	33	29	26		27	24	22		22	20	18	16
7	48	38	32	28	44	35	30	26	30	26	23		25	22	19		20	18	16	14
8	44	35	29	24	41	32	27	23	27	23	20		23	20	17		18	16	14	12
9	41	32	26	22	38	29	24	20	25	21	18		21	18	15		17	15	13	11
10	39	29	23	19	35	27	22	18	23	19	16		19	16	14		16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2795	2795	2795
5°	2644	2709	2546
10°	2560	2670	2848
15°	2545	2710	2784
20°	2497	2681	2923
25°	2445	2633	2703
30°	2422	2630	2600
35°	2368	2491	2625
40°	2338	2404	2385
45°	2143	2230	1984
50°	2121	1934	1647
55°	1891	1497	1221
60°	1207	908	768
65°	277	342	400
70°	73	99	87
75°	37	64	37
80°	16	41	14
85°	6	16	4



TEST NUMBER: 89170

CATALOG NUMBER: E2-SB-3T5-UXU-1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	56.3	1.5	1.3
10°-20°	174.6	4.7	3.9
20°-30°	280.7	7.6	6.2
30°-40°	354.5	9.6	7.9
40°-50°	356.4	9.6	7.9
50°-60°	259.6	7.0	5.8
60°-70°	76.2	2.1	1.7
70°-80°	8.9	0.2	0.2
80°-90°	2.6	0.1	0.1
90°-100°	41.5	1.1	0.9
100°-110°	144.9	3.9	3.2
110°-120°	262.1	7.1	5.8
120°-130°	354.9	9.6	7.9
130°-140°	394.8	10.7	8.8
140°-150°	378.2	10.2	8.4
150°-160°	304.1	8.2	6.8
160°-170°	184.3	5.0	4.1
170°-180°	58.6	1.6	1.3
0°-30°	511.6	13.9	11.4
0°-40°	866.1	23.5	19.2
0°-60°	1482.0	40.1	32.9
0°-90°	1569.7	42.5	34.9
90°-120°	448.6	12.1	10.0
90°-150°	1576.5	42.7	35.0
90°-180°	2123.0	57.5	47.2
0°-180°	3693.1	100.0	82.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	569	548	602	581	572	54
15°	539	568	632	656	666	152
25°	494	555	623	668	667	228
35°	440	524	580	626	647	276
45°	352	459	496	483	474	277
55°	260	350	307	277	274	221
65°	30	43	62	80	81	52
75°	3	6	10	9	6	3
85°	0	1	2	1	0	1
90°	3	4	4	4	4	6
95°	36	36	33	34	34	43
105°	140	155	133	126	120	148
115°	249	297	260	252	250	246
125°	336	426	407	395	380	305
135°	425	529	533	514	507	327
145°	503	581	645	636	619	309
155°	544	619	688	728	718	249
165°	586	623	660	675	697	163
175°	597	604	578	611	644	56
180°	579	579	579	579	579	



TEST NUMBER: 89170

CATALOG NUMBER: E2-SB-3T5-UXU-1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.5	599.5	599.5	599.5	599.5
5°	569.0	547.6	602.4	581.2	571.5
10°	548.6	584.9	610.4	626.4	662.6
15°	539.0	568.5	631.6	656.4	665.9
20°	518.3	568.4	632.1	682.4	712.7
25°	493.5	554.6	623.1	667.9	666.6
30°	471.4	548.6	619.9	638.2	643.7
35°	440.1	524.5	580.4	625.5	647.2
40°	410.8	503.8	549.5	581.0	581.4
45°	351.8	459.2	495.7	482.9	474.4
50°	321.2	409.2	414.6	379.4	383.1
55°	260.0	349.7	306.7	277.4	273.9
60°	147.9	204.6	175.9	162.0	164.5
65°	29.6	42.7	62.0	79.9	81.0
70°	6.6	10.1	16.6	24.3	16.5
75°	2.7	5.7	9.7	9.3	6.4
80°	0.9	2.8	5.6	4.5	2.2
85°	0.2	0.8	1.9	1.4	0.5
90°	3.2	3.5	3.6	3.5	3.8
95°	36.0	36.4	32.6	33.6	34.1
100°	86.4	86.9	76.7	76.2	75.5
105°	139.8	155.1	133.1	125.7	119.6
110°	193.2	218.7	195.2	186.2	185.5
115°	249.3	297.3	260.0	251.6	249.5
120°	302.0	366.4	334.7	318.5	319.1
125°	336.0	426.3	407.1	395.1	380.5
130°	390.3	489.1	473.9	454.1	457.1
135°	424.7	529.3	533.2	513.8	507.2
140°	453.5	568.0	598.0	572.9	568.6
145°	503.2	581.3	644.7	636.5	619.2
150°	510.5	598.9	676.3	682.1	682.2
155°	544.3	618.8	688.3	728.3	718.5
160°	560.4	611.9	667.2	709.8	722.6
165°	585.9	622.9	659.8	675.2	696.7
170°	567.6	614.1	657.9	662.2	688.0
175°	596.8	604.4	577.7	610.9	644.0
180°	579.0	579.0	579.0	579.0	579.0

(END OF REPORT)