

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: 89171

Luminaire Tested: **E2-SB-3T5-UXU-2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89171  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SB-3T5-UXU-2  
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**

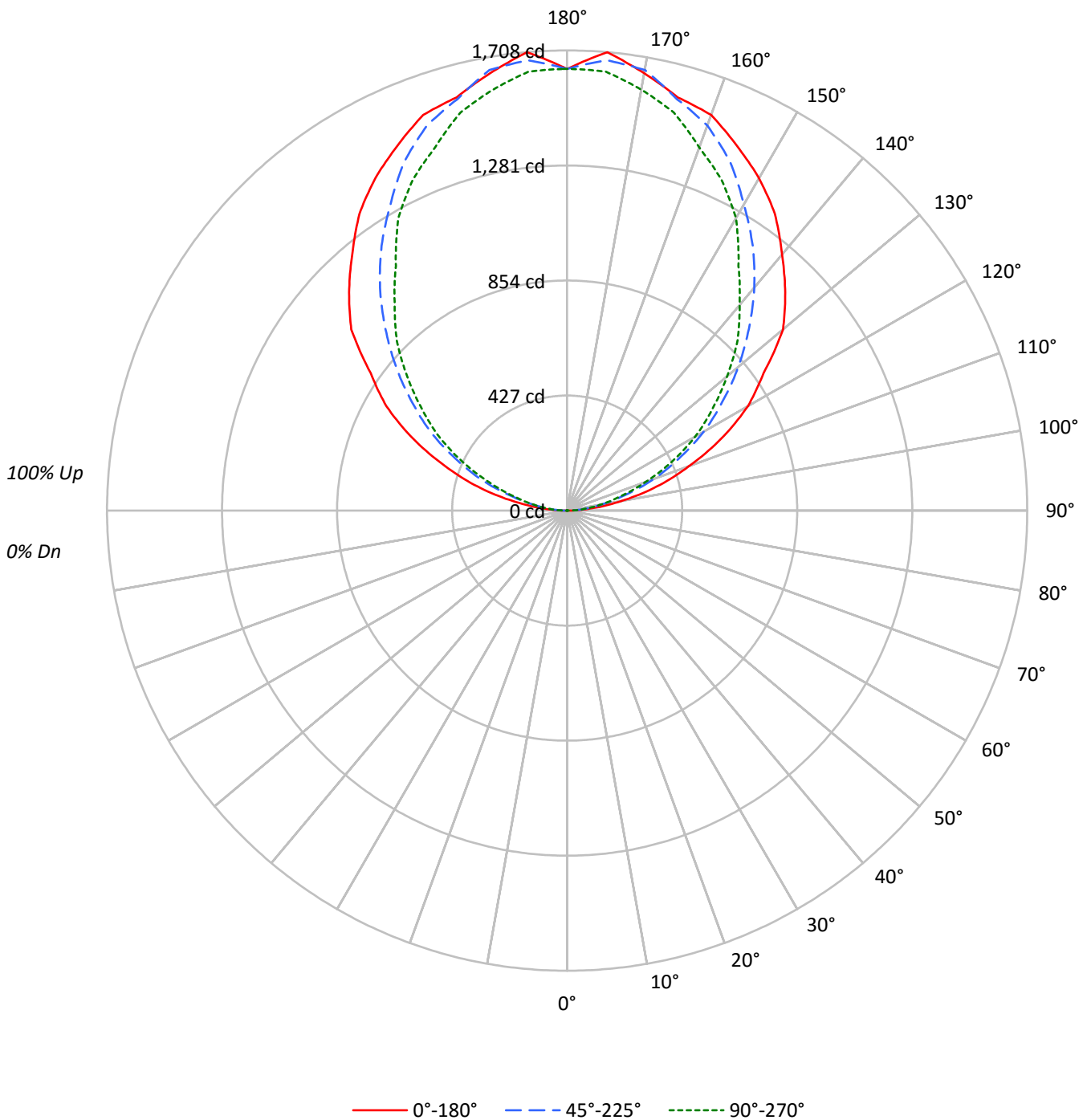
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 4275.8 lumens  
Efficiency: 47.5%  
Efficacy: 36.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')  
CIE Type: Indirect

Input Watts (W): 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	45	45	45	45	39	39	39	39	26	26	26	15	15	15	5	5	5	0
1	41	39	38	36	35	34	32	31	23	22	21	13	13	12	4	4	4	0
2	37	34	32	29	32	29	27	25	20	19	18	12	11	10	4	4	3	0
3	34	30	27	24	29	26	23	21	18	16	15	10	9	9	3	3	3	0
4	31	26	23	20	26	23	20	18	16	14	12	9	8	7	3	3	2	0
5	28	23	20	17	24	20	17	15	14	12	11	8	7	6	3	2	2	0
6	26	21	17	15	22	18	15	13	12	10	9	7	6	5	2	2	2	0
7	24	19	15	13	20	16	13	11	11	9	8	6	5	5	2	2	2	0
8	22	17	13	11	19	14	12	10	10	8	7	6	5	4	2	2	1	0
9	20	15	12	10	17	13	10	8	9	7	6	5	4	4	2	1	1	0
10	19	14	11	9	16	12	9	7	8	6	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°	1	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°	0.1	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	1.7	0.0	0.0
90°-100°	74.9	1.8	0.8
100°-110°	262.0	6.1	2.9
110°-120°	482.5	11.3	5.4
120°-130°	663.8	15.5	7.4
130°-140°	766.7	17.9	8.5
140°-150°	762.1	17.8	8.5
150°-160°	659.0	15.4	7.3
160°-170°	445.4	10.4	4.9
170°-180°	157.6	3.7	1.8
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.2	0.0	0.0
0°-90°	1.9	0.0	0.0
90°-120°	819.4	19.2	9.1
90°-150°	3012.0	70.4	33.5
90°-180°	4274.0	100.0	47.5
0°-180°	4275.8	100.0	47.5

**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°	6	6	6	6	6	13
95°	85	63	56	56	58	102
105°	344	268	221	207	204	362
115°	631	525	458	427	428	623
125°	890	810	703	672	658	806
135°	1145	1086	954	934	895	884
145°	1344	1301	1200	1130	1109	839
155°	1493	1480	1430	1388	1355	690
165°	1588	1605	1580	1554	1530	452
175°	1708	1636	1678	1671	1636	160
180°	1640	1640	1640	1640	1640	



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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	0.1	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	0.1	0.0	0.1	0.1
30°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.1	0.1
40°	0.0	0.0	0.1	0.1	0.0
45°	0.0	0.0	0.1	0.1	0.1
50°	0.0	0.0	0.1	0.1	0.1
55°	0.2	0.1	0.1	0.1	0.1
60°	0.2	0.1	0.0	0.0	0.0
65°	0.1	0.1	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°	5.9	6.5	6.4	5.8	5.5
95°	85.4	63.3	56.4	56.3	58.4
100°	204.1	159.0	129.9	127.1	124.2
105°	344.5	268.5	221.2	207.3	204.3
110°	480.0	396.5	342.4	317.2	308.8
115°	631.0	525.2	457.9	426.7	428.4
120°	774.5	680.9	585.8	540.0	549.1
125°	889.9	810.2	703.2	672.2	658.0
130°	1045.9	947.2	828.6	794.8	774.6
135°	1144.8	1085.5	953.6	933.9	894.6
140°	1240.8	1202.6	1080.8	1013.3	995.7
145°	1344.5	1301.2	1200.5	1129.6	1108.7
150°	1424.5	1419.9	1312.0	1265.2	1253.2
155°	1493.0	1479.8	1430.2	1387.5	1355.1
160°	1562.8	1576.4	1520.8	1473.4	1434.0
165°	1587.5	1605.0	1579.9	1553.9	1529.7
170°	1647.9	1637.5	1660.5	1637.4	1586.4
175°	1707.8	1635.8	1678.0	1670.7	1635.7
180°	1639.6	1639.6	1639.6	1639.6	1639.6

(END OF REPORT)