

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: 89086

Luminaire Tested: **E2-SB-2T5-DL-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89086  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SB-2T5-DL-6  
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER  
BLADE  
WITH DOWNLIGHT ISOLATORS  
Light Source: 54 WATT T5 LAMPS  
FP54T5/841HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

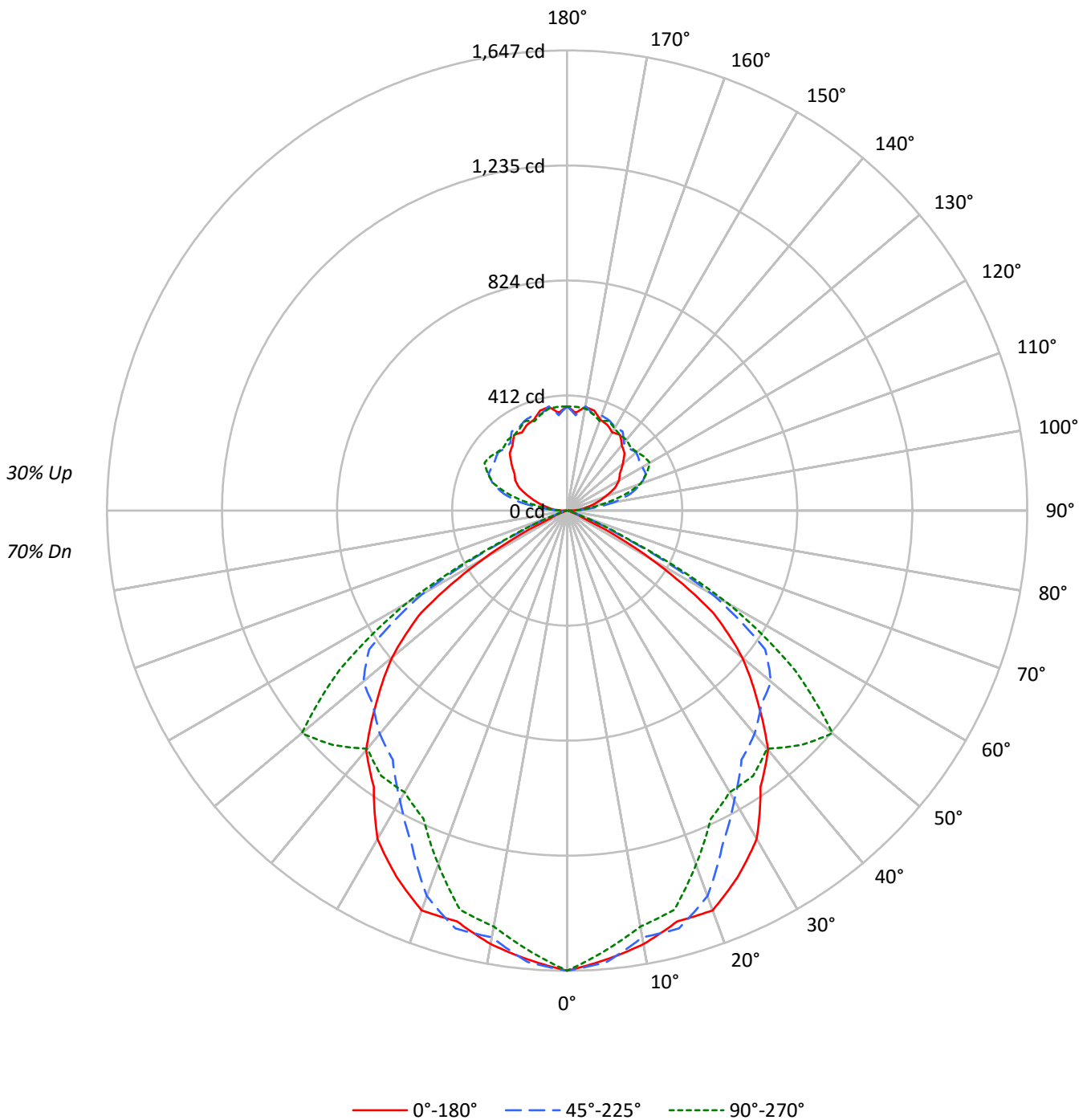
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 5278.3 lumens  
Efficiency: 58.6%  
Efficacy: 44.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.05 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')  
CIE Type: Semi-Direct

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	66	66	66	66	62	62	62	62	55	55	55	49	49	49	44	44	44	41
1	61	58	56	55	57	55	54	52	50	48	47	45	44	43	40	39	39	36
2	56	52	48	46	53	49	46	44	44	42	40	40	38	37	36	35	33	31
3	51	46	42	39	48	44	40	37	40	37	34	36	33	32	32	30	29	27
4	47	41	36	33	44	39	35	32	35	32	30	32	29	27	29	27	25	23
5	43	37	32	28	41	35	31	28	32	28	26	29	26	24	26	24	22	20
6	40	33	28	25	38	31	27	24	29	25	22	26	23	21	24	21	19	18
7	37	30	25	22	35	29	24	21	26	23	20	24	21	19	22	19	17	16
8	34	27	23	19	33	26	22	19	24	20	18	22	19	17	20	17	16	14
9	32	25	20	17	30	24	20	17	22	18	16	20	17	15	18	16	14	13
10	30	23	19	16	28	22	18	15	20	17	14	19	16	14	17	15	13	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7677	7677	7677
5°	7494	7293	7042
10°	7352	6785	6496
15°	7189	6641	6186
20°	7333	6229	5532
25°	7161	5568	4934
30°	6975	5078	4701
35°	6494	4671	4702
40°	6368	4566	4565
45°	5864	4418	4962
50°	5406	4441	5330
55°	4641	4223	4437
60°	2822	3104	3105
65°	634	1166	1160
70°	181	255	206
75°	105	139	78
80°	88	88	31
85°	91	73	23



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	152.7	2.9	1.7
10°-20°	427.6	8.1	4.8
20°-30°	613.4	11.6	6.8
30°-40°	721.8	13.7	8.0
40°-50°	796.0	15.1	8.8
50°-60°	715.7	13.6	8.0
60°-70°	235.5	4.5	2.6
70°-80°	21.3	0.4	0.2
80°-90°	11.1	0.2	0.1
90°-100°	86.1	1.6	1.0
100°-110°	208.8	4.0	2.3
110°-120°	269.9	5.1	3.0
120°-130°	271.5	5.1	3.0
130°-140°	240.6	4.6	2.7
140°-150°	209.0	4.0	2.3
150°-160°	161.3	3.1	1.8
160°-170°	101.4	1.9	1.1
170°-180°	34.5	0.7	0.4
0°-30°	1193.8	22.6	13.3
0°-40°	1915.6	36.3	21.3
0°-60°	3427.2	64.9	38.1
0°-90°	3695.2	70.0	41.1
90°-120°	564.8	10.7	6.3
90°-150°	1285.9	24.4	14.3
90°-180°	1583.0	30.0	17.6
0°-180°	5278.3	100.0	58.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1613	1677	1622	1625	1581	153
15°	1522	1534	1548	1515	1479	435
25°	1446	1399	1318	1224	1217	666
35°	1207	1196	1088	1109	1159	766
45°	963	906	982	1129	1186	745
55°	638	663	865	990	995	544
65°	68	109	211	266	235	122
75°	8	14	21	21	14	10
85°	3	5	9	8	3	4
90°	12	16	18	28	17	11
95°	51	90	76	87	61	43
105°	108	181	235	229	206	115
115°	186	227	311	306	313	181
125°	230	266	314	350	336	209
135°	290	286	314	320	321	221
145°	330	330	346	331	330	202
155°	339	358	356	342	354	156
165°	371	367	357	338	358	103
175°	351	368	342	333	373	35
180°	373	373	373	373	373	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1646.7	1646.7	1646.7	1646.7	1646.7
5°	1612.9	1677.1	1621.8	1625.0	1580.6
10°	1575.5	1555.3	1550.9	1527.2	1511.5
15°	1522.4	1534.5	1547.7	1515.2	1479.4
20°	1522.4	1481.0	1468.3	1435.5	1348.8
25°	1445.7	1399.2	1317.5	1224.0	1217.0
30°	1357.3	1293.6	1196.9	1172.7	1163.7
35°	1207.0	1195.7	1088.4	1109.4	1159.4
40°	1118.8	1072.6	1043.5	1112.3	1112.8
45°	962.7	905.7	982.3	1129.0	1186.2
50°	818.6	769.7	952.1	1184.9	1239.5
55°	638.2	662.7	865.1	990.1	995.2
60°	345.9	451.4	601.4	652.5	665.3
65°	67.6	108.7	211.3	265.8	235.1
70°	16.3	26.4	42.7	56.6	39.0
75°	7.6	14.1	21.1	21.1	13.6
80°	4.8	8.1	11.9	11.2	5.0
85°	3.3	4.8	8.6	8.5	3.2
90°	12.3	15.7	17.6	28.3	16.6
95°	51.1	90.4	76.5	86.6	60.7
100°	74.0	144.2	169.9	158.2	119.5
105°	108.5	181.3	235.2	229.1	205.9
110°	143.1	212.8	282.9	282.1	278.6
115°	186.1	227.1	310.6	306.3	313.2
120°	214.0	257.1	310.9	332.6	341.7
125°	229.9	266.5	314.3	350.4	336.2
130°	259.4	298.6	323.4	322.1	325.4
135°	290.1	286.0	313.8	319.7	320.7
140°	304.3	329.0	316.0	323.5	330.5
145°	330.4	330.1	345.8	331.1	329.7
150°	323.1	346.2	343.8	348.5	338.9
155°	339.1	357.9	356.1	342.2	354.1
160°	346.3	357.0	361.4	341.6	340.7
165°	370.8	367.1	357.3	338.1	357.7
170°	376.4	369.9	378.7	359.8	370.8
175°	350.9	368.1	342.5	332.9	372.6
180°	372.8	372.8	372.8	372.8	372.8

(END OF REPORT)