

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: 89079

Luminaire Tested: **E2-SB-1T5-DL-5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89079  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SB-1T5-DL-5  
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 LAMP  
FP54T5/841HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

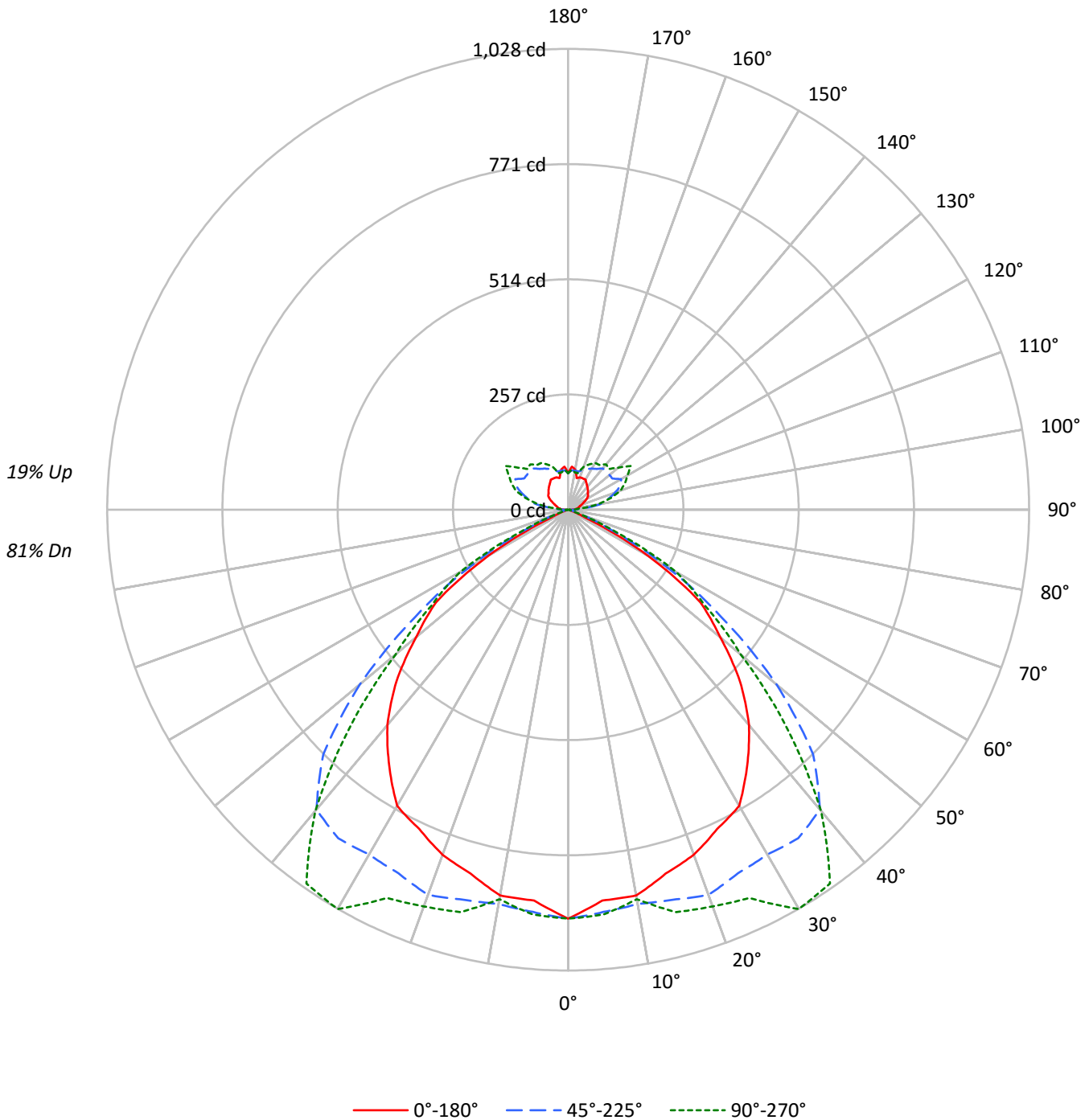
Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 2875.6 lumens  
Efficiency: 63.9%  
Efficacy: 48.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.56 / 1.5  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')  
CIE Type: Semi-Direct

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	
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	73	73	73	73	70	70	70	70	64	64	64	59	59	59	54	54	54	51
1	68	66	63	61	65	63	61	59	58	57	55	54	52	51	49	49	48	46
2	63	58	55	52	60	56	53	50	52	49	47	48	46	44	45	43	42	40
3	58	52	48	44	55	50	46	43	47	43	41	43	41	38	40	38	36	35
4	53	47	42	38	51	45	40	37	42	38	35	39	36	34	36	34	32	30
5	49	42	37	33	47	40	36	32	38	34	31	35	32	29	33	30	28	26
6	45	38	33	29	43	36	32	28	34	30	27	32	29	26	30	27	25	23
7	42	34	29	26	40	33	28	25	31	27	24	29	26	23	27	24	22	21
8	39	31	26	23	37	30	26	22	28	24	21	27	23	21	25	22	20	19
9	36	29	24	20	35	28	23	20	26	22	19	25	21	19	23	20	18	17
10	34	26	22	18	33	25	21	18	24	20	17	23	19	17	21	18	16	15

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

	0°	45°	90°
0°	4253	4253	4253
5°	4066	4051	4038
10°	4077	3906	3791
15°	3969	3865	3885
20°	3945	3878	3862
25°	3894	3783	3875
30°	3920	3768	4155
35°	3747	3839	4128
40°	3571	3820	3599
45°	3301	3474	2892
50°	2920	2828	2161
55°	2618	2030	1659
60°	1671	1284	1296
65°	371	546	577
70°	112	149	98
75°	58	80	35
80°	44	52	16
85°	50	33	12



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	85.6	3.0	1.9
10°-20°	254.4	8.8	5.7
20°-30°	412.6	14.3	9.2
30°-40°	544.4	18.9	12.1
40°-50°	528.8	18.4	11.8
50°-60°	361.2	12.6	8.0
60°-70°	111.5	3.9	2.5
70°-80°	11.6	0.4	0.3
80°-90°	4.8	0.2	0.1
90°-100°	34.8	1.2	0.8
100°-110°	84.7	2.9	1.9
110°-120°	106.6	3.7	2.4
120°-130°	106.2	3.7	2.4
130°-140°	84.6	2.9	1.9
140°-150°	66.0	2.3	1.5
150°-160°	45.0	1.6	1.0
160°-170°	24.5	0.9	0.5
170°-180°	8.3	0.3	0.2
0°-30°	752.6	26.2	16.7
0°-40°	1297.0	45.1	28.8
0°-60°	2187.1	76.1	48.6
0°-90°	2315.0	80.5	51.4
90°-120°	226.0	7.9	5.0
90°-150°	482.8	16.8	10.7
90°-180°	561.0	19.5	12.5
0°-180°	2875.6	100.0	63.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	875	887	901	906	906	84
15°	840	862	901	954	929	238
25°	786	840	895	947	956	364
35°	696	767	894	1004	1018	436
45°	542	661	772	712	691	415
55°	360	468	416	390	372	305
65°	40	57	99	127	117	72
75°	4	9	12	10	6	6
85°	2	3	4	4	2	2
90°	5	6	7	9	6	4
95°	17	33	33	33	23	14
105°	25	66	92	107	96	27
115°	38	78	129	133	139	38
125°	54	85	121	162	170	48
135°	62	87	121	127	128	48
145°	71	87	111	124	122	45
155°	77	86	100	107	111	36
165°	73	79	88	85	84	22
175°	96	89	88	80	89	9
180°	81	81	81	81	81	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
5°	875.0	887.2	900.8	905.6	906.4
10°	873.8	893.1	892.9	906.8	882.2
15°	840.5	861.6	900.7	954.4	929.3
20°	819.0	857.5	914.2	929.7	941.6
25°	786.0	839.6	895.1	946.7	955.6
30°	762.9	816.8	888.1	977.1	1028.5
35°	696.3	767.2	894.5	1004.5	1017.9
40°	627.4	728.2	873.1	906.9	877.3
45°	542.0	660.9	772.3	712.3	691.3
50°	442.2	582.9	606.3	526.0	502.5
55°	360.0	467.6	415.9	390.3	372.0
60°	204.8	255.0	248.8	266.2	277.8
65°	39.6	56.6	98.9	127.0	116.9
70°	10.1	15.4	25.0	29.3	18.6
75°	4.2	8.7	12.1	10.0	6.2
80°	2.4	4.8	7.1	5.1	2.6
85°	1.8	2.6	3.9	3.9	1.7
90°	4.8	5.9	6.7	8.9	5.7
95°	16.9	33.0	32.6	33.3	22.9
100°	22.4	54.2	74.5	75.4	63.3
105°	25.2	66.1	91.8	106.6	96.4
110°	31.2	74.7	110.9	121.3	123.7
115°	38.0	78.3	129.4	132.6	139.3
120°	47.6	84.7	136.0	156.5	152.6
125°	54.3	85.4	120.6	162.0	169.7
130°	56.9	89.0	120.3	144.9	145.4
135°	61.9	87.4	120.6	127.4	128.3
140°	66.6	85.4	120.1	125.7	131.9
145°	71.1	87.1	110.9	124.1	121.7
150°	77.2	90.1	105.8	117.1	120.2
155°	77.2	86.3	100.1	106.9	111.4
160°	76.7	86.2	94.0	96.2	102.2
165°	73.1	79.0	88.2	84.6	84.3
170°	90.5	87.2	88.4	92.9	84.4
175°	96.5	88.8	88.1	79.9	89.3
180°	81.4	81.4	81.4	81.4	81.4

(END OF REPORT)