

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: 89106

Luminaire Tested: **E2-SH-1T5-DL-2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89106  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-1T5-DL-2  
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER  
BLADE  
WITH DOWNLIGHT ISOLATORS  
Light Source: 54 WATT T5 LAMP  
FP54T5/841HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

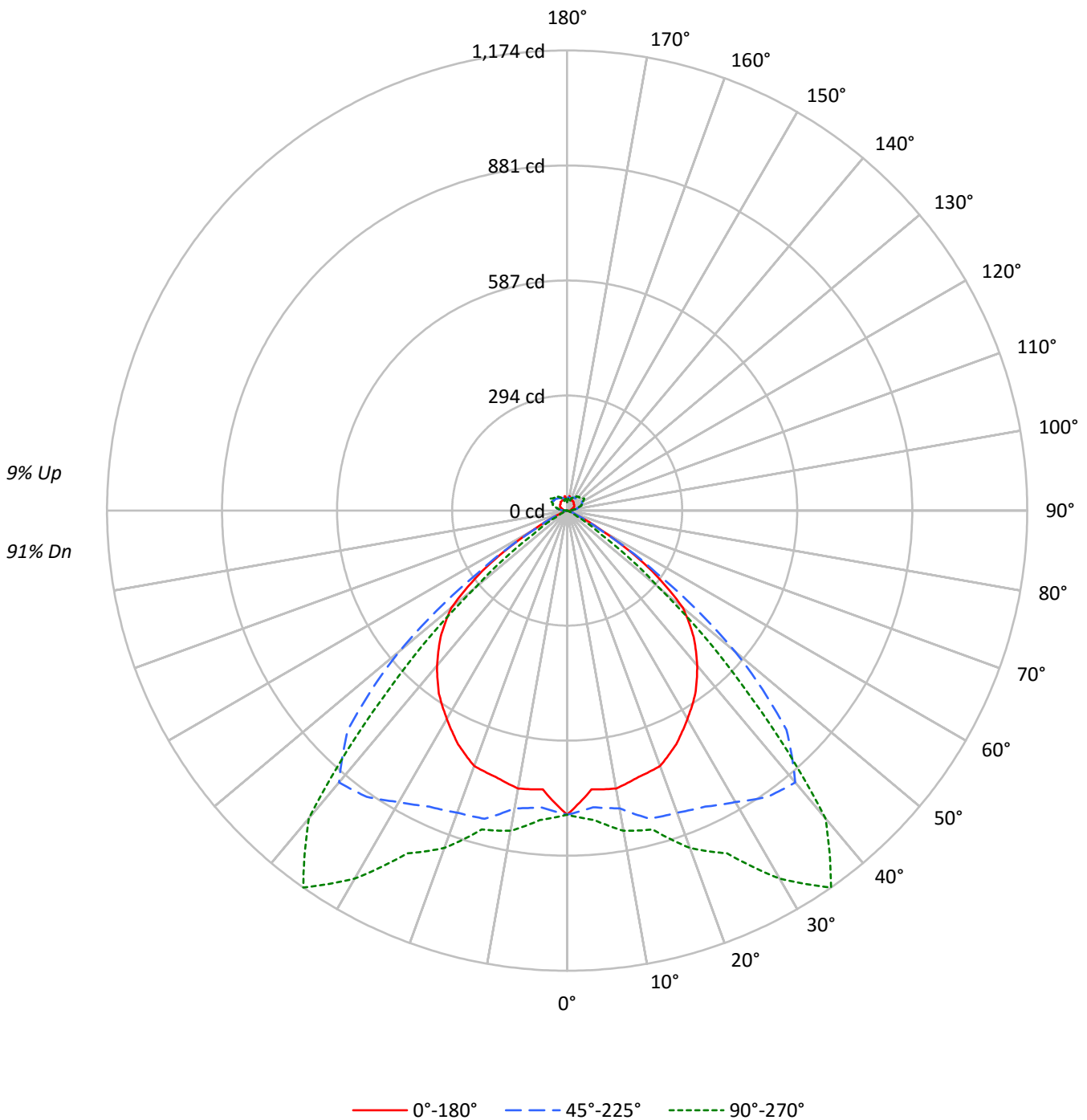
Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 2202.0 lumens  
Efficiency: 48.9%  
Efficacy: 37.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.76 / 1.56  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	3650	3650	3650
5°	3348	3447	3563
10°	3389	3404	3597
15°	3352	3524	3554
20°	3371	3510	3791
25°	3287	3553	3948
30°	3181	3674	4419
35°	3095	3860	4804
40°	2963	3996	4243
45°	2803	3589	2685
50°	2565	2636	1324
55°	1851	1377	468
60°	845	485	135
65°	220	142	41
70°	96	78	19
75°	71	59	10
80°	53	39	3
85°	61	26	6



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	73.3	3.3	1.6
10°-20°	225.5	10.2	5.0
20°-30°	383.5	17.4	8.5
30°-40°	544.7	24.7	12.1
40°-50°	507.3	23.0	11.3
50°-60°	228.0	10.4	5.1
60°-70°	34.6	1.6	0.8
70°-80°	6.6	0.3	0.1
80°-90°	3.5	0.2	0.1
90°-100°	14.5	0.7	0.3
100°-110°	27.9	1.3	0.6
110°-120°	35.7	1.6	0.8
120°-130°	36.3	1.6	0.8
130°-140°	29.9	1.4	0.7
140°-150°	23.4	1.1	0.5
150°-160°	15.9	0.7	0.4
160°-170°	8.8	0.4	0.2
170°-180°	2.9	0.1	0.1
0°-30°	682.3	31.0	15.2
0°-40°	1227.0	55.7	27.3
0°-60°	1962.2	89.1	43.6
0°-90°	2006.9	91.1	44.6
90°-120°	78.1	3.5	1.7
90°-150°	167.6	7.6	3.7
90°-180°	195.0	8.9	4.3
0°-180°	2202.0	100.0	48.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	714	744	760	776	792	69
15°	704	745	814	839	842	200
25°	658	720	833	923	965	303
35°	570	693	892	1097	1174	356
45°	456	638	791	713	636	350
55°	253	371	280	142	104	221
65°	23	31	26	14	8	39
75°	5	8	9	4	2	6
85°	2	3	3	2	1	2
90°	6	6	5	4	3	4
95°	14	19	14	10	9	9
105°	12	23	29	33	28	13
115°	18	29	42	44	40	18
125°	22	33	43	53	54	20
135°	24	32	42	46	46	19
145°	28	29	39	45	44	17
155°	29	29	37	42	35	13
165°	29	29	32	34	25	9
175°	32	26	34	31	31	3
180°	21	21	21	21	21	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	776.0	776.0	776.0	776.0	776.0
5°	714.1	743.7	759.7	776.2	792.5
10°	720.0	754.8	771.3	808.6	829.5
15°	703.6	745.0	814.0	838.7	842.5
20°	693.7	734.8	820.1	893.6	916.2
25°	657.9	719.6	833.3	922.9	965.0
30°	613.8	710.5	858.6	996.0	1084.1
35°	570.3	692.9	891.6	1097.0	1174.0
40°	516.2	669.4	905.3	1009.9	1025.0
45°	456.5	638.2	791.1	712.8	636.2
50°	385.3	539.3	560.4	370.4	305.1
55°	252.6	371.1	279.7	141.9	104.0
60°	102.8	152.1	93.2	42.2	28.6
65°	23.3	31.4	25.6	13.9	8.3
70°	8.6	12.0	12.9	7.0	3.6
75°	5.1	7.6	8.9	3.9	1.7
80°	2.9	4.7	5.3	2.2	0.5
85°	2.2	2.8	3.1	1.6	0.8
90°	6.2	5.6	4.9	4.0	2.9
95°	14.5	19.3	13.9	10.4	9.4
100°	11.6	21.1	23.7	21.5	21.9
105°	11.5	23.4	29.2	33.4	28.2
110°	14.7	26.9	36.9	36.6	39.3
115°	18.1	29.4	42.5	44.4	39.7
120°	20.9	30.0	44.4	49.7	46.8
125°	22.1	33.4	43.2	53.0	53.5
130°	23.4	29.9	42.1	46.3	48.1
135°	23.7	32.4	42.3	45.6	46.0
140°	26.3	31.1	39.8	45.8	45.6
145°	27.5	29.0	38.7	45.4	43.7
150°	28.0	31.5	37.9	40.8	39.9
155°	28.8	28.8	36.9	42.0	35.0
160°	28.0	29.9	33.8	30.4	34.0
165°	29.4	29.1	32.0	33.6	24.9
170°	37.5	31.2	32.0	31.3	29.0
175°	32.4	26.2	33.9	30.7	30.8
180°	21.4	21.4	21.4	21.4	21.4

(END OF REPORT)