

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: 89113

Luminaire Tested: **E2-SH-2T5-DL-3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89113  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-2T5-DL-3  
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**

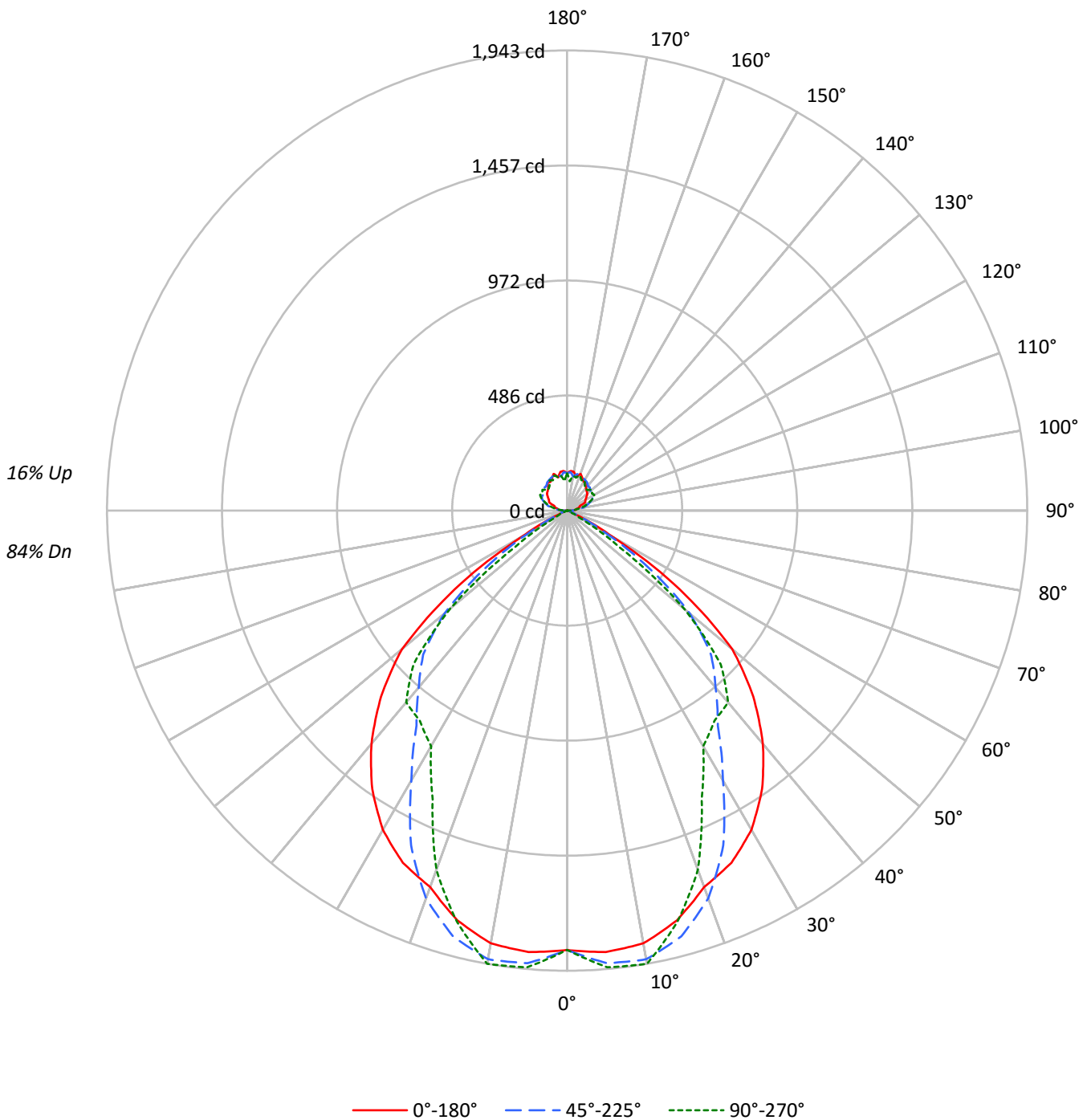
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 3974.2 lumens  
Efficiency: 44.2%  
Efficacy: 33.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.99 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

Input Watts (W): 118  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 89113  
CATALOG NUMBER: E2-SH-2T5-DL-3

### Luminous Intensity Polar Plot





TEST NUMBER: 89113

CATALOG NUMBER: E2-SH-2T5-DL-3

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0																	
RCR																																						
0	51	51	51	51	49	49	49	49	45	45	45	42	42	42	38	38	38	37																				
1	48	46	45	43	46	44	43	42	41	40	39	38	38	37	36	35	35	33																				
2	44	41	39	37	43	40	38	36	37	36	34	35	34	33	33	32	31	30																				
3	41	37	35	32	39	36	34	32	34	32	30	32	30	29	30	29	27	26																				
4	38	34	31	28	37	33	30	28	31	29	27	29	27	26	27	26	25	23																				
5	35	31	27	25	34	30	27	25	28	26	24	27	24	23	25	23	22	21																				
6	33	28	25	22	32	27	24	22	26	23	21	24	22	20	23	21	20	19																				
7	31	26	22	20	30	25	22	20	24	21	19	22	20	19	21	19	18	17																				
8	29	24	20	18	28	23	20	18	22	19	17	21	18	17	20	18	16	15																				
9	27	22	19	16	26	21	18	16	20	18	16	19	17	15	18	16	15	14																				
10	25	20	17	15	24	20	17	15	19	16	14	18	16	14	17	15	14	13																				

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

	0°	45°	90°
0°	8727	8727	8727
5°	8772	8704	8701
10°	8735	8492	8426
15°	8531	8057	7585
20°	8217	7456	6680
25°	8197	6650	5499
30°	8064	5628	4682
35°	7787	4799	4435
40°	7379	4302	4375
45°	6824	3898	3870
50°	6059	3182	2801
55°	4261	2058	1232
60°	1805	929	270
65°	390	249	77
70°	173	127	33
75°	115	86	13
80°	101	60	6
85°	102	48	13



TEST NUMBER: 89113

CATALOG NUMBER: E2-SH-2T5-DL-3

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	181.2	4.6	2.0
10°-20°	512.4	12.9	5.7
20°-30°	706.4	17.8	7.8
30°-40°	759.2	19.1	8.4
40°-50°	710.3	17.9	7.9
50°-60°	377.2	9.5	4.2
60°-70°	57.9	1.5	0.6
70°-80°	10.5	0.3	0.1
80°-90°	7.3	0.2	0.1
90°-100°	39.1	1.0	0.4
100°-110°	80.8	2.0	0.9
110°-120°	106.4	2.7	1.2
120°-130°	109.1	2.7	1.2
130°-140°	100.0	2.5	1.1
140°-150°	88.4	2.2	1.0
150°-160°	70.1	1.8	0.8
160°-170°	43.4	1.1	0.5
170°-180°	14.5	0.4	0.2
0°-30°	1400.1	35.2	15.6
0°-40°	2159.3	54.3	24.0
0°-60°	3246.8	81.7	36.1
0°-90°	3322.5	83.6	36.9
90°-120°	226.3	5.7	2.5
90°-150°	523.8	13.2	5.8
90°-180°	652.0	16.4	7.2
0°-180°	3974.2	100.0	44.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1871	1847	1918	1937	1936	178
15°	1791	1844	1861	1802	1798	503
25°	1641	1685	1560	1408	1344	754
35°	1435	1362	1109	1078	1084	894
45°	1111	977	859	893	917	852
55°	581	466	418	337	274	509
65°	41	44	45	25	16	78
75°	8	12	13	6	2	10
85°	4	4	6	4	2	4
90°	16	14	13	12	9	10
95°	38	45	36	32	27	27
105°	53	70	86	90	77	54
115°	84	88	118	130	119	78
125°	99	112	120	141	127	89
135°	116	131	136	131	123	90
145°	145	143	146	143	129	87
155°	152	158	154	151	141	70
165°	145	149	160	158	144	44
175°	168	158	163	135	124	16
180°	157	157	157	157	157	



TEST NUMBER: 89113

CATALOG NUMBER: E2-SH-2T5-DL-3

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1855.3	1855.3	1855.3	1855.3	1855.3
5°	1871.2	1847.4	1918.4	1936.9	1935.5
10°	1855.5	1909.7	1923.9	1900.9	1943.3
15°	1790.9	1843.6	1861.2	1802.0	1797.9
20°	1691.2	1784.1	1742.2	1641.7	1614.3
25°	1640.6	1685.1	1559.8	1407.9	1344.2
30°	1555.9	1567.6	1315.1	1203.1	1148.7
35°	1435.0	1361.8	1108.6	1078.1	1084.0
40°	1285.6	1182.4	974.7	1021.4	1056.9
45°	1111.2	976.7	859.1	893.0	916.9
50°	910.1	767.9	676.5	681.2	645.5
55°	581.3	466.3	418.1	337.0	273.8
60°	219.5	183.1	178.6	96.2	57.4
65°	41.3	44.5	44.8	24.6	15.5
70°	15.5	19.8	21.1	11.6	6.2
75°	8.3	12.2	12.9	6.1	2.3
80°	5.5	8.0	8.1	3.4	1.0
85°	3.7	4.1	5.6	3.9	1.8
90°	15.5	14.3	12.7	11.9	8.9
95°	37.7	44.7	36.0	32.5	27.1
100°	39.9	56.4	65.5	63.7	53.4
105°	53.4	69.8	85.6	89.7	76.9
110°	57.1	77.8	101.9	113.9	97.1
115°	83.9	87.5	118.1	129.9	118.9
120°	88.6	103.1	122.4	136.7	131.9
125°	99.0	112.3	120.2	141.2	127.3
130°	111.0	116.8	128.8	131.5	136.8
135°	116.3	131.3	136.0	130.7	122.6
140°	123.7	140.8	135.8	131.3	121.2
145°	144.7	143.1	146.1	143.2	129.0
150°	140.1	147.9	150.0	145.3	147.7
155°	151.6	158.2	154.5	151.1	141.3
160°	165.6	150.8	159.8	144.2	158.4
165°	144.8	149.1	159.9	158.2	144.2
170°	165.8	160.1	145.2	143.7	148.4
175°	167.9	157.9	163.2	134.7	124.3
180°	157.3	157.3	157.3	157.3	157.3

(END OF REPORT)