

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: 17901

Luminaire Tested: **E2-SC-3T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17901  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SC-3T5  
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND WHITE LENS OVER CONCAVE PERF  
PANEL  
  
Light Source: THREE PHILIPS 54 WATT T5 LAMPS  
  
F54T5.841HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

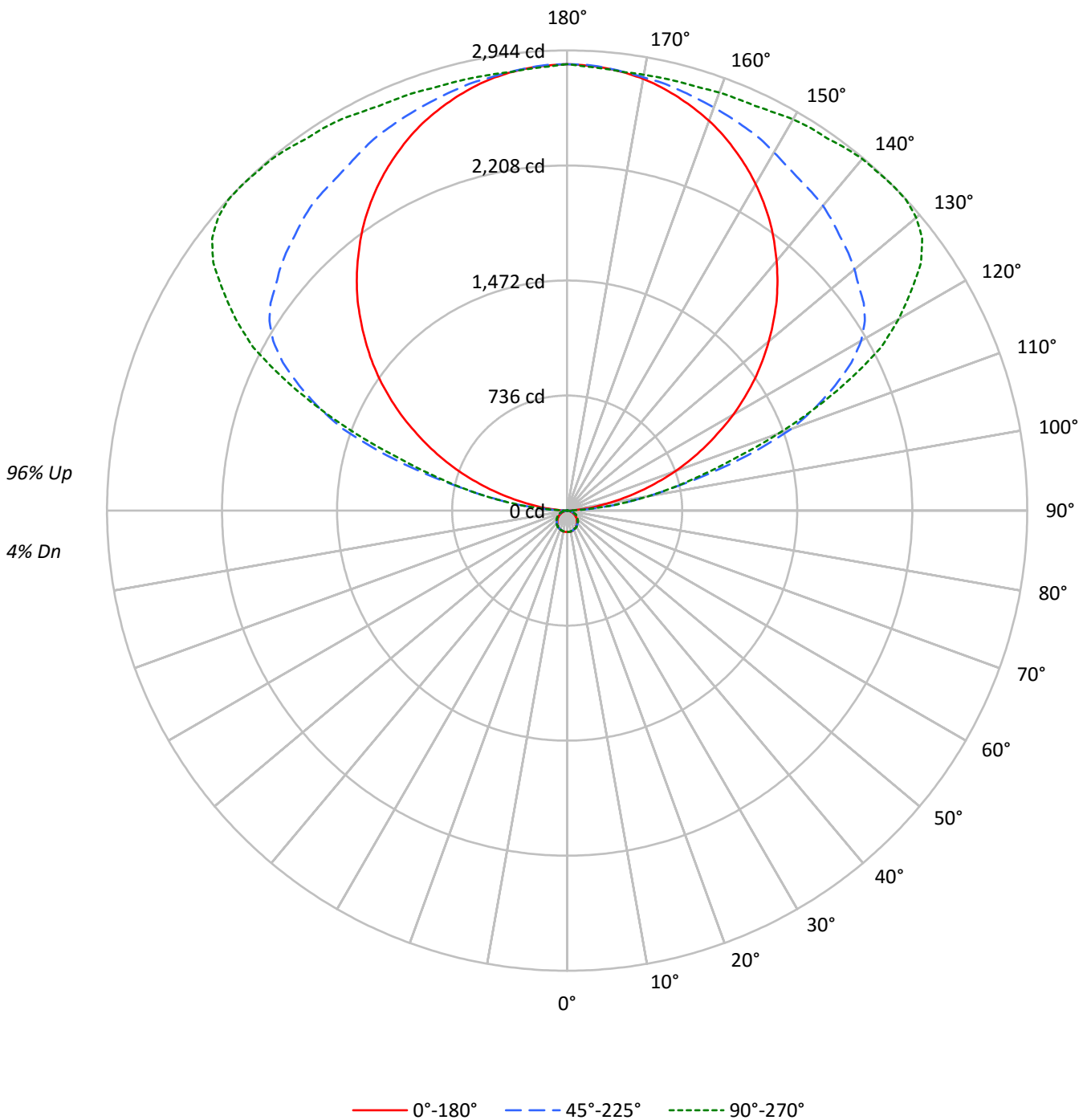
**Summary**

Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 11041.8 lumens  
Efficiency: 81.8%  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 0.22' x L: 3.59' x H: 0')  
CIE Type: Indirect  
  
Input Watts (W): 180  
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



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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	79	79	79	79	68	68	68	68	47	47	47	28	28	28	11	11	11	3
1	71	68	65	63	61	59	56	54	41	40	38	25	24	23	10	9	9	3
2	65	59	55	51	56	51	47	44	36	34	32	22	20	19	9	8	8	2
3	59	52	47	42	51	45	40	37	32	29	26	19	18	16	8	7	7	2
4	54	46	40	35	46	40	35	31	28	25	22	17	15	14	7	6	6	1
5	49	41	35	30	42	35	30	26	25	21	19	15	13	12	6	5	5	1
6	45	36	30	26	39	31	26	23	22	19	16	13	12	10	5	5	4	1
7	42	32	26	22	36	28	23	19	20	17	14	12	10	9	5	4	4	1
8	38	29	23	19	33	25	20	17	18	15	12	11	9	8	4	4	3	1
9	36	26	21	17	31	23	18	15	16	13	11	10	8	7	4	3	3	1
10	33	24	19	15	28	21	16	13	15	12	10	9	7	6	4	3	2	1

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

	0°	45°	90°
0°	1853	1853	1853
5°	1865	1878	1878
10°	1900	1871	1871
15°	1888	1869	1869
20°	1851	1851	1846
25°	1878	1857	1857
30°	1802	1866	1906
35°	1825	1842	1888
40°	1749	1864	1834
45°	1700	1821	1920
50°	1681	1813	1870
55°	1613	1825	1851
60°	1540	1774	1954
65°	1419	1899	1986
70°	1231	1741	2000
75°	1101	1843	1901
80°	659	1664	1852
85°	516	938	1532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.0	0.1	0.1
10°-20°	37.3	0.3	0.3
20°-30°	56.7	0.5	0.4
30°-40°	68.6	0.6	0.5
40°-50°	72.3	0.7	0.5
50°-60°	66.8	0.6	0.5
60°-70°	53.7	0.5	0.4
70°-80°	32.9	0.3	0.2
80°-90°	9.4	0.1	0.1
90°-100°	218.3	2.0	1.6
100°-110°	946.5	8.6	7.0
110°-120°	1673.8	15.2	12.4
120°-130°	1968.4	17.8	14.6
130°-140°	1890.4	17.1	14.0
140°-150°	1624.7	14.7	12.0
150°-160°	1249.2	11.3	9.3
160°-170°	789.2	7.1	5.8
170°-180°	270.7	2.5	2.0
0°-30°	106.9	1.0	0.8
0°-40°	175.5	1.6	1.3
0°-60°	314.6	2.8	2.3
0°-90°	410.6	3.7	3.0
90°-120°	2838.6	25.7	21.0
90°-150°	8322.1	75.4	61.6
90°-180°	10631.0	96.3	78.7
0°-180°	11041.8	100.0	81.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	136	136	136	136	136	
5°	136	135	137	135	137	13
15°	134	132	132	132	132	38
25°	125	121	124	124	124	57
35°	110	107	111	110	114	67
45°	88	93	94	97	100	68
55°	68	72	77	76	78	61
65°	44	49	59	59	62	44
75°	21	27	35	36	36	20
85°	3	6	6	10	10	3
90°	0	0	0	0	0	4
95°	87	172	187	178	185	109
105°	488	971	983	928	908	518
115°	980	1433	1891	2008	2005	970
125°	1464	1743	2317	2624	2764	1306
135°	1895	2075	2473	2815	2944	1460
145°	2261	2372	2588	2833	2906	1413
155°	2543	2590	2702	2820	2856	1172
165°	2739	2755	2784	2826	2835	773
175°	2842	2852	2844	2844	2836	270
180°	2856	2856	2856	2856	2856	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	136.0	136.0	136.0	136.0	136.0
2.5°	137.3	136.3	136.3	137.3	137.3
5°	136.3	135.2	137.3	135.2	137.3
7.5°	136.3	136.3	137.3	133.8	136.3
10°	137.3	135.2	135.2	133.8	135.2
12.5°	133.8	132.5	135.2	131.1	133.8
15°	133.8	132.5	132.5	132.5	132.5
17.5°	131.1	130.0	129.7	128.7	131.1
20°	127.6	128.7	127.6	127.3	127.3
22.5°	126.2	124.9	126.2	125.9	126.2
25°	124.9	121.1	123.5	123.8	123.5
27.5°	120.0	118.6	120.0	119.7	122.4
30°	114.5	114.8	118.6	117.3	121.1
32.5°	112.4	111.0	112.1	114.8	116.2
35°	109.7	107.2	110.7	109.7	113.5
37.5°	102.1	103.4	106.9	105.9	108.6
40°	98.3	98.3	104.8	104.8	103.1
42.5°	93.1	94.5	98.3	100.7	100.7
45°	88.2	93.1	94.5	96.9	99.6
47.5°	84.1	85.5	90.7	90.7	93.1
50°	79.3	80.6	85.5	86.9	88.2
52.5°	75.5	75.5	81.7	84.1	81.7
55°	67.9	71.7	76.8	76.5	77.9
57.5°	61.6	66.5	71.7	73.0	74.1
60°	56.5	61.6	65.1	68.9	71.7
62.5°	48.9	56.5	60.3	64.1	65.4
65°	44.0	48.9	58.9	59.2	61.6
67.5°	39.9	45.1	49.9	52.7	55.1
70°	30.9	36.1	43.7	48.9	50.2
72.5°	23.3	31.2	41.3	42.6	41.3
75°	20.9	27.4	35.0	36.1	36.1
77.5°	13.3	20.9	28.5	31.2	28.5
80°	8.4	17.1	21.2	22.3	23.6
82.5°	4.3	12.2	15.7	16.0	16.0
85°	3.3	6.0	6.0	9.8	9.8
87.5°	0.5	0.5	3.3	8.1	8.4
90°	0.5	0.5	0.5	0.5	0.5
92.5°	27.4	51.3	57.5	55.1	56.5
95°	86.9	171.8	187.0	178.1	184.6
97.5°	169.1	341.1	344.9	339.7	347.3
100°	263.7	611.9	519.7	570.1	523.5
102.5°	370.1	708.3	726.9	658.9	708.3
105°	487.9	971.2	982.9	928.3	907.9
107.5°	609.5	1120.7	1259.6	1183.9	1147.3
110°	735.9	1248.5	1524.2	1461.0	1439.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	858.9	1347.0	1715.2	1756.0	1725.2
115°	980.1	1433.3	1891.0	2007.8	2005.0
117.5°	1101.7	1514.2	2050.6	2202.3	2264.8
120°	1226.8	1598.8	2172.2	2397.1	2446.8
122.5°	1345.6	1706.6	2258.2	2565.3	2607.1
125°	1463.7	1743.2	2316.6	2623.7	2764.3
127.5°	1576.4	1831.6	2351.8	2745.3	2863.1
130°	1683.4	1908.7	2399.9	2795.7	2915.9
132.5°	1789.8	1993.6	2439.2	2809.9	2941.5
135°	1894.8	2074.8	2473.1	2815.1	2943.9
137.5°	1992.3	2150.8	2511.1	2823.7	2937.7
140°	2084.5	2220.2	2546.7	2819.9	2937.7
142.5°	2174.6	2287.3	2568.1	2818.5	2923.5
145°	2260.7	2372.2	2588.1	2832.7	2905.9
147.5°	2339.1	2402.6	2613.7	2835.1	2901.1
150°	2412.3	2480.7	2646.5	2821.3	2890.7
152.5°	2480.7	2537.7	2679.7	2813.3	2870.7
155°	2542.9	2589.5	2702.5	2819.9	2855.5
157.5°	2602.3	2637.9	2723.9	2823.7	2850.3
160°	2654.1	2682.1	2744.3	2823.7	2846.5
162.5°	2698.7	2721.5	2764.3	2822.3	2836.5
165°	2739.1	2755.3	2784.3	2826.1	2835.1
167.5°	2775.3	2793.3	2803.7	2835.1	2833.7
170°	2804.7	2806.1	2814.7	2836.1	2831.3
172.5°	2826.1	2835.1	2828.9	2838.9	2828.9
175°	2841.7	2851.7	2844.1	2844.1	2836.1
177.5°	2850.3	2862.7	2854.1	2855.5	2843.7
180°	2855.8	2855.8	2855.8	2855.8	2855.8

(END OF REPORT)