

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: 89111

Luminaire Tested: **E2-SH-2T5-DL-5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89111  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-2T5-DL-5  
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**

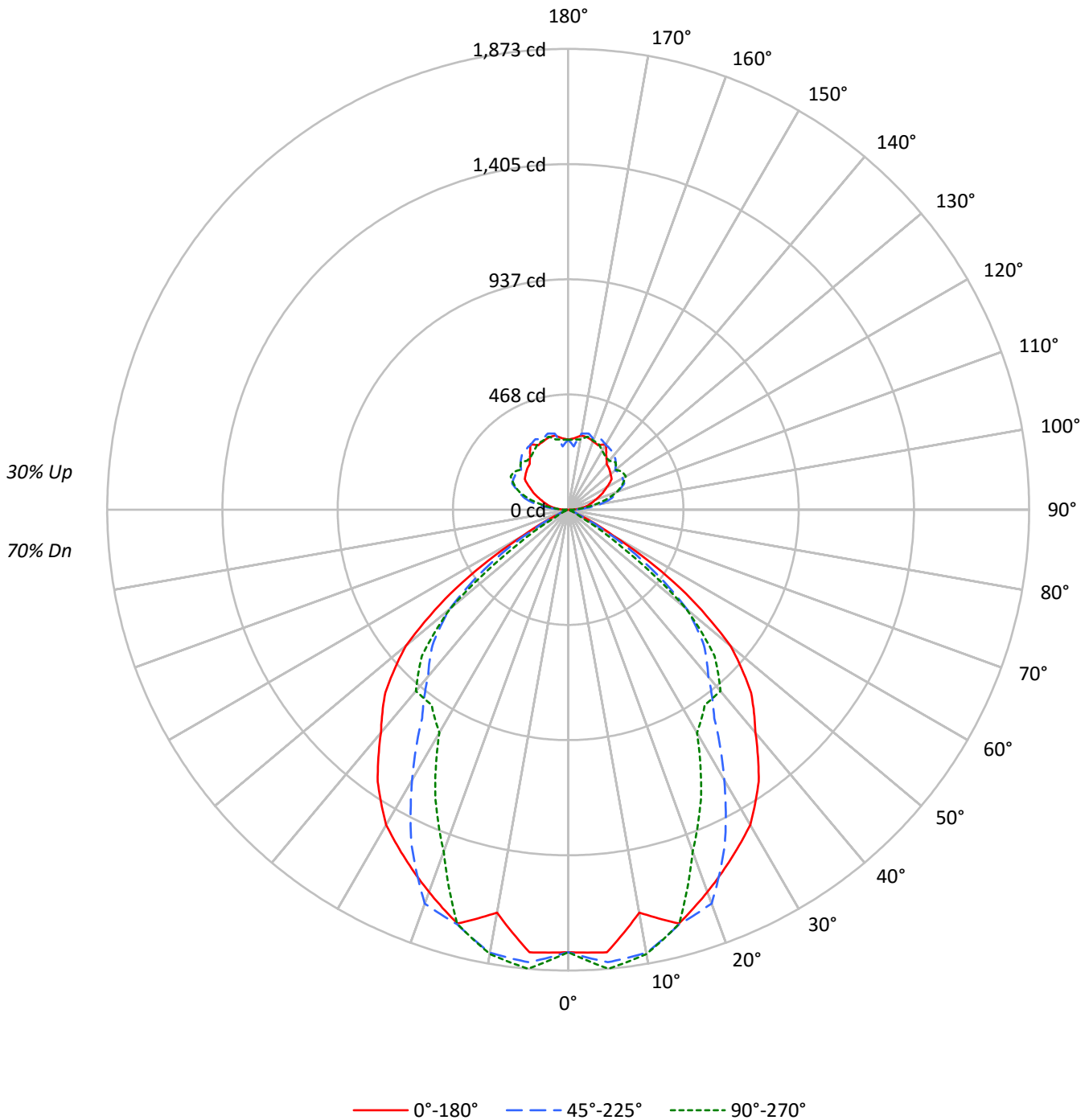
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 4445.1 lumens  
Efficiency: 49.4%  
Efficacy: 37.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 0.97 / 1.12  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

Input Watts (W): 118  
Input Voltage (V): NR  
Input Current (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	55	55	55	55	52	52	52	52	47	47	47	42	42	42	37	37	37	35
1	52	50	48	47	49	47	46	45	43	42	41	38	38	37	34	34	33	31
2	48	45	42	40	45	43	40	38	39	37	35	35	34	32	31	31	30	28
3	44	40	37	35	42	38	36	33	35	33	31	32	30	29	29	27	26	25
4	41	36	33	30	39	35	32	29	32	29	27	29	27	25	26	25	24	22
5	38	33	29	26	36	31	28	26	29	26	24	26	24	23	24	22	21	20
6	35	30	26	23	34	29	25	23	26	24	22	24	22	20	22	20	19	18
7	33	27	24	21	31	26	23	20	24	21	19	22	20	18	21	19	17	16
8	31	25	21	19	29	24	21	18	22	19	17	21	18	17	19	17	16	15
9	29	23	20	17	27	22	19	17	21	18	16	19	17	15	18	16	14	13
10	27	21	18	16	26	21	17	15	19	16	15	18	15	14	16	15	13	12

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

	0°	45°	90°
0°	8459	8459	8459
5°	8464	8376	8419
10°	7827	8072	7951
15°	8294	7551	7350
20°	8033	7290	6121
25°	7822	6418	5232
30°	7665	5428	4268
35°	7323	4480	3961
40°	6795	3911	3984
45°	6454	3542	3546
50°	5728	2964	2711
55°	4085	1940	1217
60°	1737	877	275
65°	377	243	68
70°	152	121	30
75°	114	83	13
80°	98	55	6
85°	111	55	15



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	173.4	3.9	1.9
10°-20°	491.3	11.1	5.5
20°-30°	670.2	15.1	7.4
30°-40°	706.7	15.9	7.9
40°-50°	659.9	14.8	7.3
50°-60°	356.1	8.0	4.0
60°-70°	54.8	1.2	0.6
70°-80°	10.0	0.2	0.1
80°-90°	8.9	0.2	0.1
90°-100°	71.2	1.6	0.8
100°-110°	165.7	3.7	1.8
110°-120°	217.5	4.9	2.4
120°-130°	222.2	5.0	2.5
130°-140°	203.2	4.6	2.3
140°-150°	179.1	4.0	2.0
150°-160°	140.7	3.2	1.6
160°-170°	86.7	2.0	1.0
170°-180°	27.6	0.6	0.3
0°-30°	1334.9	30.0	14.8
0°-40°	2041.6	45.9	22.7
0°-60°	3057.6	68.8	34.0
0°-90°	3131.2	70.4	34.8
90°-120°	454.3	10.2	5.0
90°-150°	1058.8	23.8	11.8
90°-180°	1314.0	29.6	14.6
0°-180°	4445.1	100.0	49.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1806	1794	1846	1838	1873	167
15°	1741	1797	1744	1752	1742	482
25°	1566	1557	1505	1327	1279	723
35°	1350	1310	1035	963	968	839
45°	1051	920	781	827	840	800
55°	557	431	394	322	271	486
65°	40	42	44	23	14	75
75°	8	12	12	6	2	9
85°	4	5	6	5	2	4
90°	12	16	17	23	15	10
95°	45	70	65	71	50	41
105°	94	148	183	181	158	99
115°	150	188	251	260	243	148
125°	215	228	258	278	269	187
135°	235	259	273	266	273	182
145°	269	296	299	278	263	170
155°	289	311	316	315	294	137
165°	304	306	321	305	307	86
175°	291	296	258	276	286	28
180°	284	284	284	284	284	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1798.3	1798.3	1798.3	1798.3	1798.3
5°	1805.6	1793.7	1846.1	1837.7	1872.7
10°	1662.7	1786.6	1828.8	1855.0	1833.6
15°	1741.0	1796.7	1744.3	1752.5	1742.3
20°	1653.4	1702.4	1703.4	1580.6	1479.1
25°	1565.6	1556.7	1505.4	1327.3	1278.8
30°	1479.0	1487.4	1268.3	1106.4	1047.1
35°	1349.5	1309.7	1034.9	963.0	968.0
40°	1183.8	1116.1	886.1	936.1	962.5
45°	1051.0	920.1	780.8	826.9	840.1
50°	860.4	715.1	630.2	642.4	624.8
55°	557.3	431.2	394.0	322.1	270.6
60°	211.3	166.3	168.6	95.1	58.3
65°	39.9	41.6	43.6	23.1	13.6
70°	13.6	18.6	20.1	10.8	5.7
75°	8.2	11.5	12.5	6.1	2.3
80°	5.3	7.2	7.4	3.4	1.0
85°	4.0	4.7	6.4	5.3	2.1
90°	12.2	16.3	16.8	22.9	15.0
95°	45.2	70.3	65.3	71.0	49.6
100°	71.4	117.6	135.6	129.8	98.1
105°	93.8	147.7	183.4	180.7	158.3
110°	117.3	168.2	213.6	220.1	210.8
115°	150.1	187.5	251.3	259.7	242.6
120°	179.7	204.6	255.5	268.7	270.1
125°	215.3	228.5	257.7	277.9	268.8
130°	225.2	240.6	249.6	269.1	252.7
135°	235.3	259.2	273.2	266.2	272.8
140°	242.8	278.9	292.0	277.1	259.8
145°	269.4	296.2	299.1	278.2	263.3
150°	306.4	299.1	305.2	291.7	276.6
155°	289.0	311.0	315.8	314.9	293.7
160°	295.8	299.0	304.5	311.5	299.0
165°	304.0	306.2	320.7	304.6	307.1
170°	306.3	286.1	314.1	310.7	290.2
175°	291.4	296.5	258.3	275.6	285.9
180°	284.4	284.4	284.4	284.4	284.4

(END OF REPORT)