

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: 89110

Luminaire Tested: **E2-SH-2T5-DL-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89110  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-2T5-DL-6  
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**

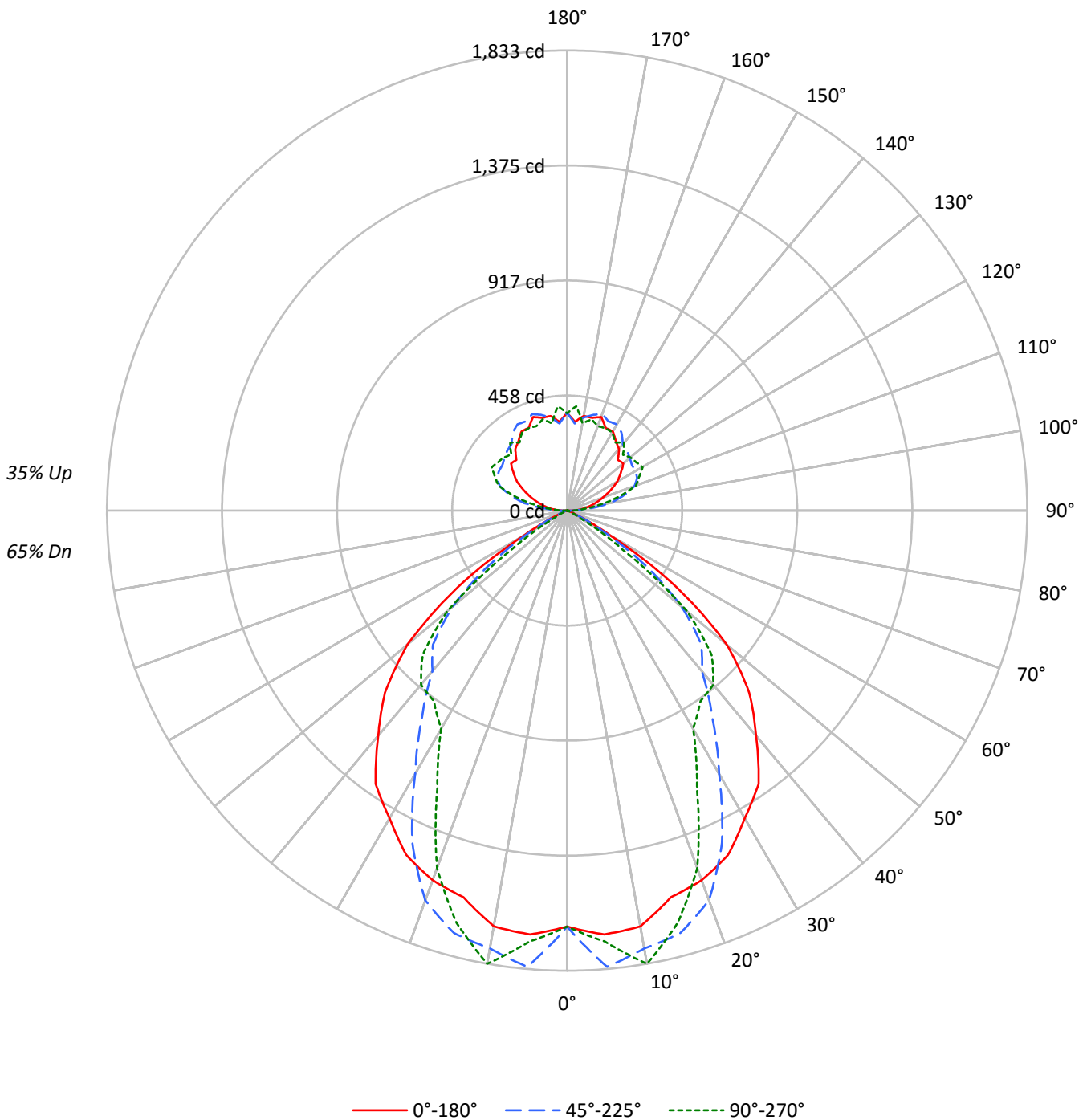
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 4694.3 lumens  
Efficiency: 52.2%  
Efficacy: 39.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1 / 1.14  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

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



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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	58	58	58	58	54	54	54	54	48	48	48	42	42	42	36	36	36	34
1	54	52	50	49	50	49	47	46	43	42	41	38	38	37	34	33	33	30
2	50	46	44	41	47	44	41	39	39	37	36	35	33	32	31	30	29	27
3	46	42	38	36	43	39	37	34	35	33	31	32	30	28	28	27	26	24
4	43	38	34	31	40	36	32	30	32	30	27	29	27	25	26	24	23	21
5	39	34	30	27	37	32	29	26	29	26	24	26	24	22	24	22	21	19
6	37	31	27	24	35	29	26	23	27	24	22	24	22	20	22	20	19	17
7	34	28	24	22	32	27	23	21	24	22	19	22	20	18	20	18	17	16
8	32	26	22	19	30	25	21	19	22	20	18	20	18	16	19	17	15	14
9	30	24	20	17	28	23	19	17	21	18	16	19	17	15	17	15	14	13
10	28	22	18	16	26	21	18	15	19	16	15	18	15	14	16	14	13	12

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

	0°	45°	90°
0°	7796	7796	7796
5°	7946	8277	7746
10°	7917	7816	7948
15°	7598	7543	7173
20°	7612	7071	6269
25°	7569	6224	5010
30°	7333	5179	4088
35°	7216	4369	3790
40°	6720	3685	3749
45°	6302	3430	3436
50°	5524	2796	2702
55°	3888	1875	1203
60°	1622	834	281
65°	374	229	71
70°	169	115	28
75°	108	84	14
80°	88	55	6
85°	100	54	18



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	166.3	3.5	1.8
10°-20°	478.0	10.2	5.3
20°-30°	652.8	13.9	7.3
30°-40°	680.4	14.5	7.6
40°-50°	635.7	13.5	7.1
50°-60°	344.8	7.3	3.8
60°-70°	53.0	1.1	0.6
70°-80°	9.8	0.2	0.1
80°-90°	9.3	0.2	0.1
90°-100°	88.6	1.9	1.0
100°-110°	211.2	4.5	2.3
110°-120°	276.7	5.9	3.1
120°-130°	282.8	6.0	3.1
130°-140°	255.9	5.5	2.8
140°-150°	227.1	4.8	2.5
150°-160°	177.7	3.8	2.0
160°-170°	109.0	2.3	1.2
170°-180°	35.1	0.7	0.4
0°-30°	1297.1	27.6	14.4
0°-40°	1977.5	42.1	22.0
0°-60°	2958.0	63.0	32.9
0°-90°	3030.1	64.5	33.7
90°-120°	576.5	12.3	6.4
90°-150°	1342.3	28.6	14.9
90°-180°	1664.0	35.4	18.5
0°-180°	4694.3	100.0	52.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1695	1706	1824	1734	1723	161
15°	1595	1729	1742	1675	1700	455
25°	1515	1569	1460	1280	1225	694
35°	1330	1279	1009	903	926	821
45°	1026	894	756	791	814	782
55°	530	422	381	319	267	464
65°	40	40	41	22	14	71
75°	8	11	13	6	2	9
85°	4	4	6	6	2	4
90°	12	16	18	27	17	11
95°	54	87	82	89	61	48
105°	116	178	232	229	211	124
115°	189	239	308	321	316	188
125°	260	296	315	352	336	233
135°	286	333	337	338	314	229
145°	338	383	378	354	331	213
155°	363	392	391	386	362	172
165°	382	369	394	405	376	109
175°	354	377	348	333	417	35
180°	388	388	388	388	388	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1657.2	1657.2	1657.2	1657.2	1657.2
5°	1694.9	1705.7	1824.4	1734.5	1723.1
10°	1681.8	1761.7	1770.9	1780.7	1833.1
15°	1595.0	1729.1	1742.4	1674.9	1700.4
20°	1566.6	1686.1	1652.2	1548.8	1514.9
25°	1514.9	1569.1	1460.0	1280.0	1224.6
30°	1414.9	1466.3	1210.3	1036.9	1003.1
35°	1329.9	1278.7	1009.3	902.7	926.4
40°	1170.8	1092.3	835.0	870.5	905.8
45°	1026.2	893.6	756.1	790.8	814.2
50°	829.7	693.3	594.4	614.7	622.8
55°	530.4	421.7	380.9	318.6	267.4
60°	197.3	160.2	160.3	95.6	59.6
65°	39.6	40.5	41.2	22.5	14.2
70°	15.1	17.7	19.1	10.8	5.3
75°	7.8	11.4	12.6	6.0	2.4
80°	4.8	7.3	7.4	3.2	0.9
85°	3.6	4.5	6.3	5.7	2.5
90°	12.1	16.5	17.8	27.4	16.8
95°	53.6	87.4	82.4	89.4	60.6
100°	84.6	154.0	173.6	157.6	130.2
105°	116.3	177.6	232.2	229.3	211.3
110°	151.4	217.8	285.9	275.5	291.6
115°	189.3	238.8	307.8	320.6	316.1
120°	229.8	275.6	313.8	346.5	346.8
125°	260.5	296.1	315.1	352.3	335.6
130°	292.0	316.2	325.0	347.1	329.5
135°	285.6	333.2	337.2	337.5	314.3
140°	320.8	353.0	344.8	339.8	352.9
145°	337.5	382.6	377.8	354.0	330.9
150°	364.1	380.4	396.6	382.6	359.3
155°	363.1	392.1	391.3	385.5	362.0
160°	396.1	388.6	408.2	388.0	358.1
165°	382.1	368.8	394.2	405.0	375.6
170°	382.3	372.5	376.0	369.7	353.1
175°	354.4	376.8	347.8	333.2	416.8
180°	388.0	388.0	388.0	388.0	388.0

(END OF REPORT)