

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: 89189

Luminaire Tested: **E2-SH-3T5-DL-6**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89189  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-3T5-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**

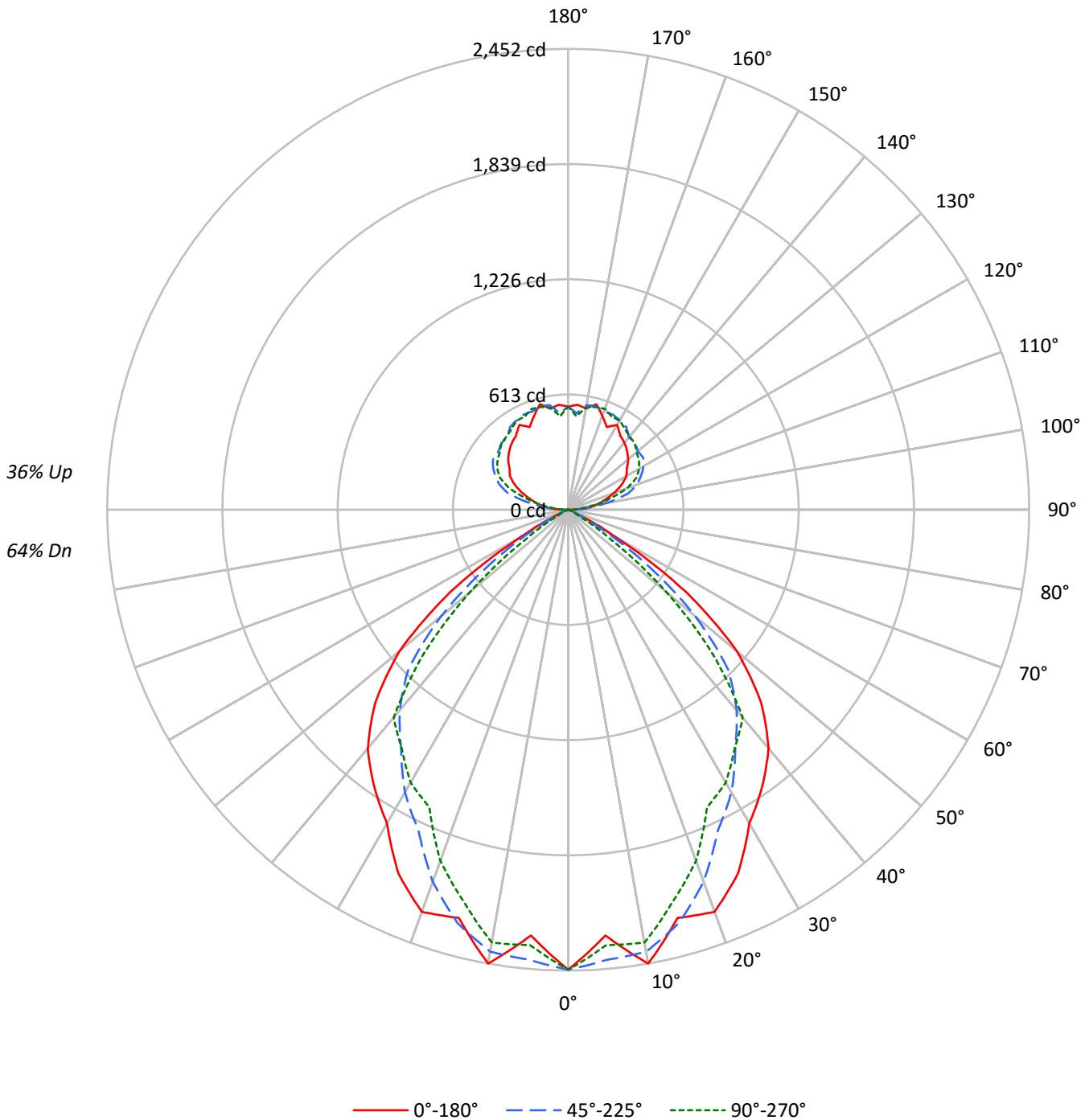
Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 6634.2 lumens  
Efficiency: 49.1%  
Efficacy: 37.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

Input Watts (W): 177  
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	54	54	54	54	51	51	51	51	45	45	45	39	39	39	34	34	34	32
1	51	49	47	46	48	46	45	43	41	40	39	36	35	35	32	31	31	29
2	47	44	41	39	44	41	39	37	37	35	34	33	32	30	29	28	27	25
3	43	39	36	34	41	37	34	32	33	31	29	30	28	27	26	25	24	23
4	40	35	32	29	38	34	30	28	30	28	26	27	25	24	24	23	22	20
5	37	32	28	26	35	30	27	25	27	25	23	25	23	21	22	21	19	18
6	34	29	25	23	32	28	24	22	25	22	20	23	20	19	20	19	17	16
7	32	26	23	20	30	25	22	19	23	20	18	21	19	17	19	17	16	15
8	30	24	21	18	28	23	20	18	21	18	16	19	17	15	17	16	14	13
9	28	22	19	16	26	21	18	16	19	17	15	18	16	14	16	14	13	12
10	26	20	17	15	25	20	16	14	18	15	14	16	14	13	15	13	12	11

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

	0°	45°	90°
0°	11513	11513	11513
5°	10660	10903	10455
10°	11543	10540	10141
15°	10712	9853	9094
20°	11061	9012	8227
25°	10675	8029	7147
30°	9991	7430	6831
35°	9761	6709	6323
40°	9518	6153	5977
45°	8916	5460	4601
50°	7799	4146	2943
55°	5625	2518	1243
60°	2352	1003	295
65°	528	306	83
70°	236	156	43
75°	159	113	16
80°	125	77	9
85°	138	78	28



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	231.0	3.5	1.7
10°-20°	635.9	9.6	4.7
20°-30°	896.2	13.5	6.6
30°-40°	1022.6	15.4	7.6
40°-50°	932.2	14.1	6.9
50°-60°	463.8	7.0	3.4
60°-70°	71.7	1.1	0.5
70°-80°	13.5	0.2	0.1
80°-90°	11.9	0.2	0.1
90°-100°	108.8	1.6	0.8
100°-110°	281.2	4.2	2.1
110°-120°	390.1	5.9	2.9
120°-130°	408.5	6.2	3.0
130°-140°	377.6	5.7	2.8
140°-150°	325.1	4.9	2.4
150°-160°	253.4	3.8	1.9
160°-170°	159.2	2.4	1.2
170°-180°	51.4	0.8	0.4
0°-30°	1763.1	26.6	13.1
0°-40°	2785.7	42.0	20.6
0°-60°	4181.8	63.0	31.0
0°-90°	4278.9	64.5	31.7
90°-120°	780.1	11.8	5.8
90°-150°	1891.4	28.5	14.0
90°-180°	2355.0	35.5	17.4
0°-180°	6634.2	100.0	49.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2447	2447	2447	2447	2447	
5°	2274	2494	2403	2576	2326	226
15°	2249	2345	2276	2230	2156	652
25°	2137	2104	1883	1816	1747	977
35°	1799	1743	1550	1563	1545	1126
45°	1452	1302	1203	1159	1090	1106
55°	767	650	512	337	276	665
65°	56	60	55	27	17	103
75°	12	16	17	8	3	13
85°	5	6	9	9	4	6
90°	20	19	20	30	17	20
95°	101	108	97	100	63	88
105°	202	264	327	273	229	215
115°	313	373	427	438	399	307
125°	381	429	486	491	459	344
135°	443	484	502	489	500	342
145°	482	506	538	515	525	306
155°	484	561	559	555	546	234
165°	581	563	570	559	566	158
175°	560	519	514	531	499	53
180°	548	548	548	548	548	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2447.4	2447.4	2447.4	2447.4	2447.4
5°	2274.0	2493.9	2403.2	2575.7	2325.8
10°	2452.0	2372.1	2388.0	2362.3	2338.8
15°	2248.6	2344.7	2275.9	2229.5	2155.7
20°	2276.6	2232.5	2105.8	1976.5	1988.1
25°	2136.6	2103.9	1883.3	1816.5	1747.0
30°	1927.7	1919.6	1736.2	1704.2	1676.1
35°	1798.9	1742.8	1549.7	1563.2	1545.3
40°	1658.3	1534.1	1394.1	1426.3	1443.9
45°	1451.9	1301.6	1203.4	1158.9	1090.1
50°	1171.5	1027.7	881.4	751.0	678.3
55°	767.4	650.5	511.6	337.4	276.2
60°	286.1	260.1	192.8	104.4	62.7
65°	55.9	59.8	55.0	27.4	16.7
70°	21.1	26.0	25.9	14.0	8.0
75°	11.5	15.9	17.0	7.8	2.8
80°	6.8	10.3	10.3	3.8	1.4
85°	5.0	6.3	9.2	9.4	4.0
90°	20.3	18.9	19.5	30.0	16.9
95°	101.2	107.8	97.0	100.4	62.6
100°	153.9	187.8	206.9	192.4	145.0
105°	201.6	264.4	327.1	272.7	228.7
110°	257.7	325.5	388.6	357.1	331.1
115°	312.6	373.1	427.2	438.2	399.2
120°	357.3	412.1	462.8	470.0	434.6
125°	380.7	428.6	485.8	491.4	459.1
130°	416.8	471.1	483.8	497.9	474.7
135°	442.9	484.4	501.7	488.6	500.3
140°	465.4	512.7	502.7	513.4	508.8
145°	482.1	506.0	537.5	514.6	524.6
150°	520.4	531.8	548.9	536.0	547.2
155°	484.3	561.3	558.8	555.4	545.9
160°	530.3	558.4	556.5	568.5	570.4
165°	580.7	563.4	570.4	559.0	565.5
170°	545.9	553.4	564.3	551.6	551.3
175°	560.3	518.6	514.4	530.9	498.7
180°	547.9	547.9	547.9	547.9	547.9

(END OF REPORT)