

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: 89159

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89159  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-3T5-XUX-2  
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER  
BLADE  
WITH LAMP ISOLATORS  
Light Source: 54 WATT T5 LAMPS  
FP54T5/841HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

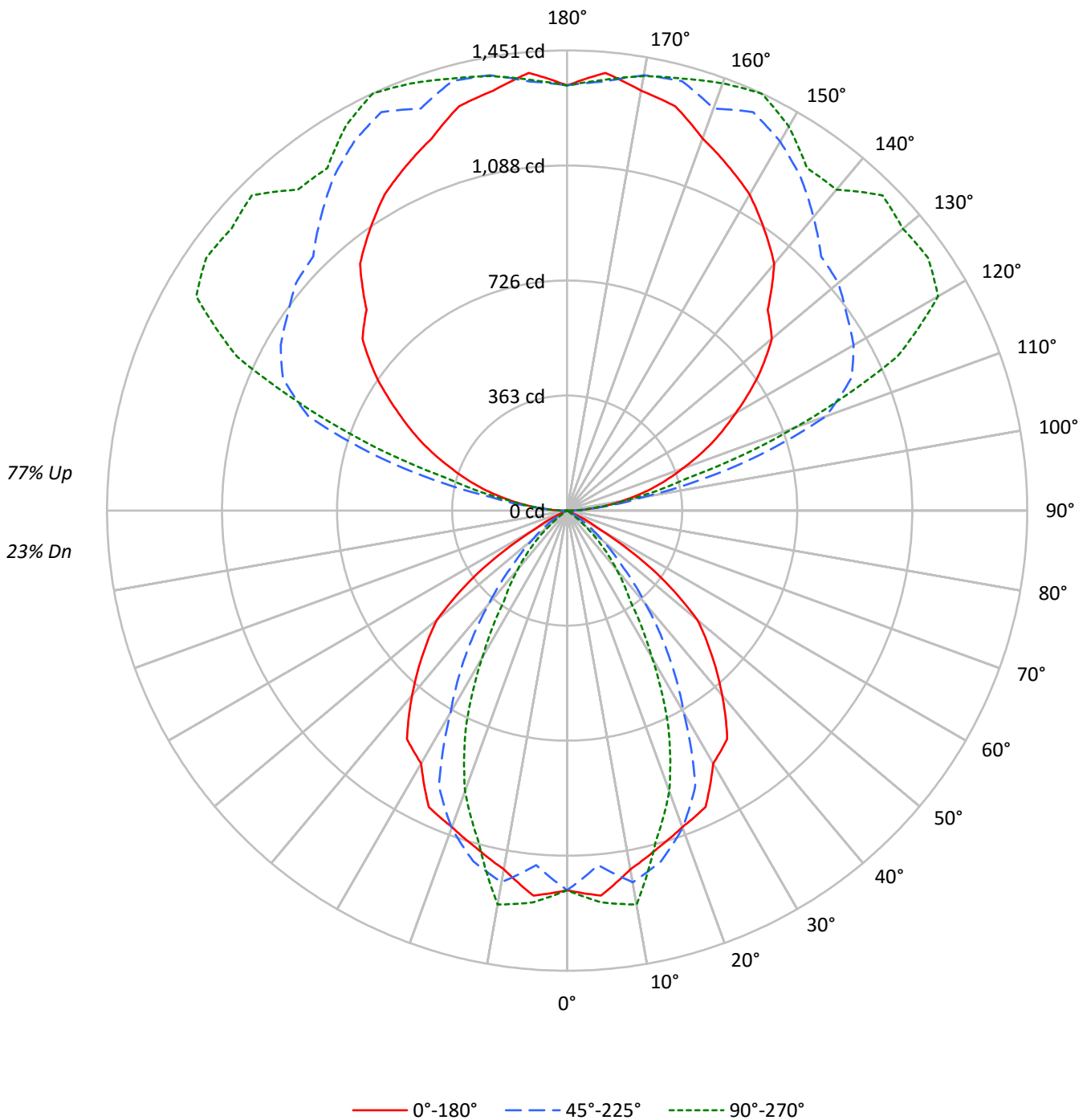
Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 6867.1 lumens  
Efficiency: 76.3%  
Efficacy: 58.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.9 / 0.99  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Indirect

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	77	77	77	77	68	68	68	68	52	52	52	38	38	38	24	24	24	18
1	71	68	65	63	63	60	58	56	47	45	44	34	33	32	22	22	22	16
2	65	60	56	52	58	54	50	47	42	39	38	31	29	28	20	20	19	15
3	60	53	48	44	53	48	44	40	37	35	32	28	26	25	19	18	17	13
4	55	48	42	38	49	43	38	35	34	31	28	25	23	22	17	16	15	12
5	51	43	37	33	45	38	34	30	30	27	25	23	21	19	16	15	14	11
6	47	38	33	29	42	35	30	26	28	24	22	21	19	17	15	13	13	10
7	43	35	29	25	39	31	27	23	25	22	19	19	17	15	14	12	11	9
8	40	32	26	23	36	29	24	21	23	20	17	18	15	14	13	11	10	9
9	37	29	24	20	33	26	22	19	21	18	16	16	14	13	12	10	10	8
10	35	27	21	18	31	24	20	17	19	16	14	15	13	11	11	10	9	7

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

	0°	45°	90°
0°	5631	5631	5631
5°	5713	5090	5575
10°	5407	5252	5469
15°	5252	4955	4556
20°	5160	4556	3896
25°	5155	4078	3096
30°	4772	3148	2185
35°	4775	2419	1412
40°	4364	1699	1006
45°	3957	1092	633
50°	3569	673	265
55°	2524	351	44
60°	986	116	7
65°	234	32	3
70°	73	17	1
75°	47	13	1
80°	29	8	0
85°	11	3	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	112.2	1.6	1.2
10°-20°	316.0	4.6	3.5
20°-30°	415.6	6.1	4.6
30°-40°	374.1	5.4	4.2
40°-50°	257.3	3.7	2.9
50°-60°	108.7	1.6	1.2
60°-70°	14.6	0.2	0.2
70°-80°	2.2	0.0	0.0
80°-90°	2.4	0.0	0.0
90°-100°	112.4	1.6	1.2
100°-110°	491.6	7.2	5.5
110°-120°	877.8	12.8	9.8
120°-130°	961.1	14.0	10.7
130°-140°	896.8	13.1	10.0
140°-150°	783.5	11.4	8.7
150°-160°	622.8	9.1	6.9
160°-170°	389.3	5.7	4.3
170°-180°	128.8	1.9	1.4
0°-30°	843.8	12.3	9.4
0°-40°	1218.0	17.7	13.5
0°-60°	1583.9	23.1	17.6
0°-90°	1603.1	23.3	17.8
90°-120°	1481.8	21.6	16.5
90°-150°	4123.2	60.0	45.8
90°-180°	5264.0	76.7	58.5
0°-180°	6867.1	100.0	76.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1219	1174	1122	1128	1240	114
15°	1102	1130	1144	1145	1080	312
25°	1032	1044	957	758	757	467
35°	880	826	559	383	345	539
45°	644	514	241	171	150	499
55°	344	197	71	21	10	299
65°	25	15	6	1	1	43
75°	3	4	2	0	0	4
85°	0	1	0	0	0	1
90°	5	7	7	7	8	13
95°	81	111	78	71	73	91
105°	284	499	563	436	388	299
115°	503	681	989	1138	1149	497
125°	734	865	1076	1295	1389	654
135°	895	1060	1133	1288	1406	705
145°	1083	1187	1283	1299	1318	679
155°	1200	1278	1386	1428	1451	554
165°	1320	1354	1402	1398	1410	370
175°	1385	1314	1358	1300	1364	130
180°	1340	1340	1340	1340	1340	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1197.1	1197.1	1197.1	1197.1	1197.1
5°	1218.7	1173.9	1121.9	1128.1	1240.1
10°	1148.6	1166.1	1190.0	1176.2	1261.4
15°	1102.4	1130.4	1144.5	1145.1	1080.0
20°	1062.1	1095.1	1064.7	1007.9	941.6
25°	1031.7	1044.1	956.6	758.4	756.8
30°	920.8	957.8	735.5	577.7	536.2
35°	879.9	826.0	558.7	383.4	345.2
40°	760.3	693.0	385.0	261.0	243.1
45°	644.4	513.5	240.7	170.7	150.1
50°	536.1	349.7	143.1	80.7	61.1
55°	344.4	197.3	71.3	20.7	9.7
60°	119.9	70.4	22.3	2.8	1.5
65°	24.8	15.3	5.8	1.1	0.6
70°	6.5	5.9	2.9	0.6	0.2
75°	3.4	3.8	2.0	0.3	0.2
80°	1.6	2.1	1.1	0.2	0.0
85°	0.4	0.9	0.4	0.1	0.0
90°	5.4	7.2	7.0	7.1	7.6
95°	80.9	110.7	78.3	71.4	73.0
100°	178.6	321.9	242.2	200.8	191.2
105°	283.6	498.7	563.3	435.6	388.4
110°	387.5	588.6	867.4	808.0	764.7
115°	502.7	680.7	988.8	1137.6	1148.6
120°	613.0	789.8	1043.1	1254.3	1350.5
125°	733.6	865.4	1076.4	1295.3	1389.4
130°	842.6	955.7	1116.0	1302.9	1382.2
135°	894.6	1059.7	1132.8	1287.5	1405.9
140°	1015.8	1135.0	1208.4	1281.1	1320.9
145°	1083.3	1187.3	1283.4	1299.3	1318.5
150°	1150.7	1239.5	1343.3	1391.4	1398.2
155°	1200.0	1277.9	1386.3	1428.0	1450.8
160°	1248.5	1342.4	1349.3	1432.2	1433.7
165°	1319.5	1353.7	1401.6	1397.5	1410.1
170°	1344.4	1325.3	1393.7	1385.8	1391.3
175°	1385.3	1314.0	1357.8	1299.5	1363.5
180°	1340.5	1340.5	1340.5	1340.5	1340.5

(END OF REPORT)