

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: 89173

Luminaire Tested: **E2-SB-3T5-XDX-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89173
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-3T5-XDX-1
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

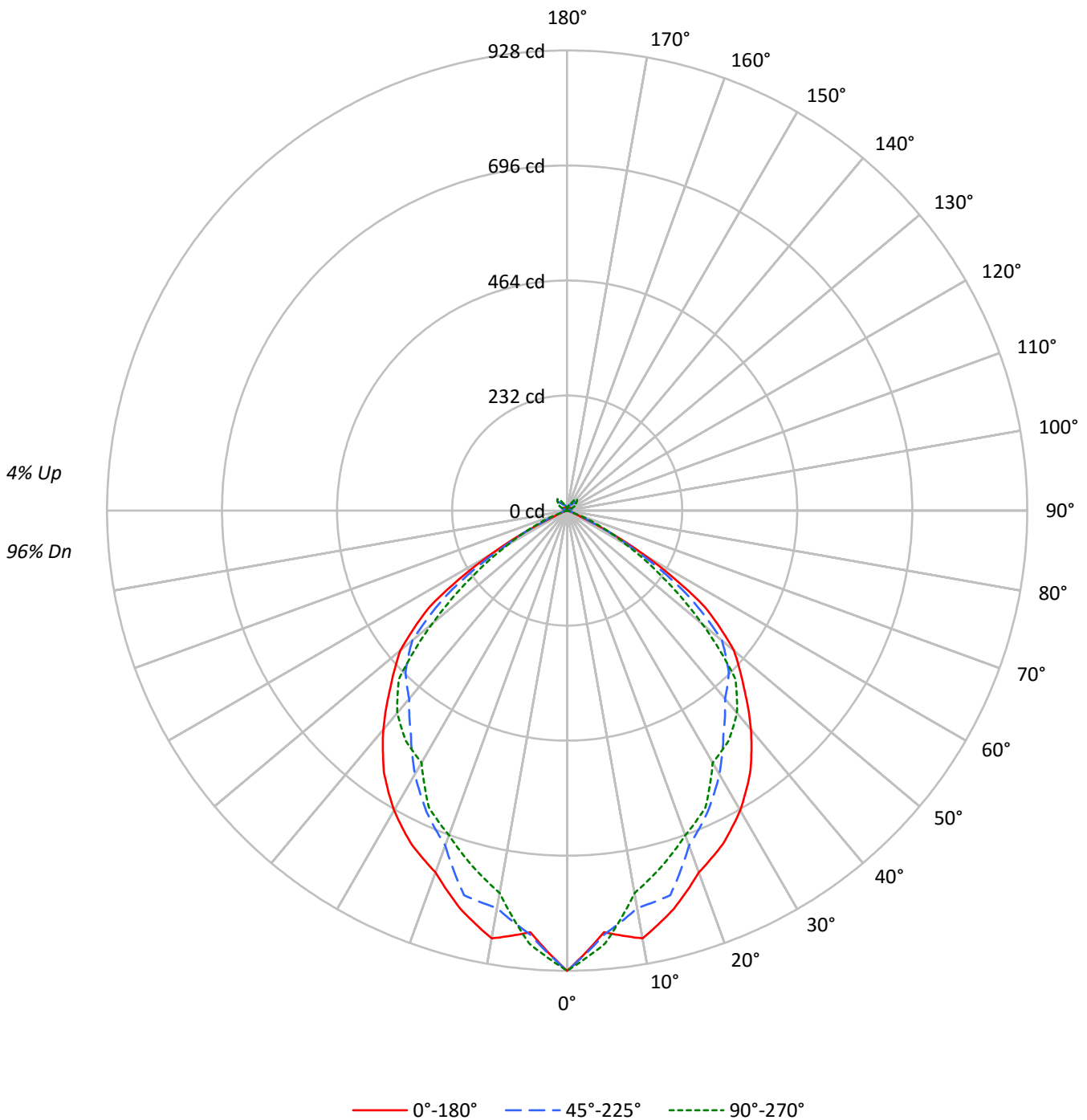
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 1737.6 lumens
Efficiency: 38.6%
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.98 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): 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										
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	50	30	10	50	30	10	0														
RCR																																						
0	46	46	46	46	44	44	44	44	42	42	42	40	40	40	38	38	38	37	37	37	35	35	34	34	33													
1	43	41	40	39	42	40	39	38	38	37	37	37	36	35	35	34	34	33	33	32	32	31	32	31	30	29												
2	40	37	35	33	38	36	34	33	35	33	32	33	32	31	32	31	30	29	29	27	26	26	25	23	22	20												
3	37	33	31	29	36	33	30	28	31	29	28	30	28	27	29	27	26	25	25	23	21	24	22	21	20	18												
4	34	30	27	25	33	29	27	25	28	26	24	27	25	24	26	25	23	22	22	20	19	22	20	18	18	16												
5	31	27	24	22	31	27	24	22	26	23	21	25	23	21	24	22	21	20	20	19	22	20	18	18	16	14												
6	29	25	22	19	28	24	21	19	23	21	19	23	20	19	22	20	18	18	16	16	15	14	14	13	13	12												
7	27	22	19	17	26	22	19	17	21	19	17	21	18	17	20	18	17	16	16	15	14	14	13	13	12	12												
8	25	21	18	16	25	20	17	15	20	17	15	19	17	15	19	16	15	14	14	13	13	12	12	11	11	10												
9	24	19	16	14	23	19	16	14	18	16	14	18	15	14	17	15	14	13	13	12	12	11	11	10	10	9												
10	22	18	15	13	22	17	15	13	17	14	13	16	14	13	16	14	12	12	11	11	10	10	9	9	8	8												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4328	4328	4328
5°	3965	3859	3906
10°	4089	3562	3366
15°	3927	3447	3099
20°	3741	3050	2858
25°	3678	2834	2677
30°	3588	2605	2372
35°	3466	2359	2300
40°	3284	2169	2186
45°	3067	2073	2007
50°	2900	1900	1530
55°	2464	1444	1050
60°	1495	796	640
65°	322	274	339
70°	77	88	79
75°	41	57	31
80°	16	39	13
85°	8	14	4



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	81.3	4.7	1.8
10°-20°	221.4	12.7	4.9
20°-30°	316.2	18.2	7.0
30°-40°	359.7	20.7	8.0
40°-50°	360.0	20.7	8.0
50°-60°	251.2	14.5	5.6
60°-70°	68.5	3.9	1.5
70°-80°	8.2	0.5	0.2
80°-90°	1.6	0.1	0.0
90°-100°	1.8	0.1	0.0
100°-110°	5.7	0.3	0.1
110°-120°	12.0	0.7	0.3
120°-130°	16.6	1.0	0.4
130°-140°	15.6	0.9	0.3
140°-150°	10.3	0.6	0.2
150°-160°	5.1	0.3	0.1
160°-170°	2.1	0.1	0.0
170°-180°	0.4	0.0	0.0
0°-30°	618.8	35.6	13.8
0°-40°	978.5	56.3	21.7
0°-60°	1589.7	91.5	35.3
0°-90°	1668.0	96.0	37.1
90°-120°	19.4	1.1	0.4
90°-150°	61.9	3.6	1.4
90°-180°	70.0	4.0	1.6
0°-180°	1737.6	100.0	38.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	853	831	858	861	877	83
15°	832	811	803	761	741	234
25°	742	723	671	669	660	342
35°	644	591	550	542	567	401
45°	504	461	461	478	480	391
55°	339	326	296	240	236	290
65°	34	40	50	67	69	63
75°	3	6	9	8	5	4
85°	0	1	2	1	0	0
90°	1	0	0	0	0	1
95°	6	2	1	0	0	4
105°	8	12	3	2	1	8
115°	8	16	17	8	4	8
125°	8	16	21	23	23	8
135°	8	13	24	28	28	6
145°	7	10	15	22	28	4
155°	5	8	13	14	13	2
165°	4	6	8	9	11	1
175°	4	4	4	5	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.2	928.2	928.2	928.2	928.2
5°	853.4	830.8	858.2	861.4	876.6
10°	876.2	831.4	814.1	813.4	783.3
15°	831.5	811.4	803.2	760.9	741.3
20°	776.6	774.2	718.9	710.0	696.8
25°	742.5	723.0	670.6	668.9	660.3
30°	698.3	653.9	614.0	592.7	587.2
35°	644.1	590.8	549.7	542.0	567.1
40°	576.9	529.6	495.7	526.3	532.8
45°	503.6	461.2	460.9	478.3	479.8
50°	439.2	394.1	407.4	370.4	355.7
55°	338.9	326.4	295.9	239.9	235.6
60°	183.3	190.2	154.3	136.2	137.1
65°	34.4	40.4	49.6	66.6	68.8
70°	6.9	10.8	14.7	21.6	15.0
75°	3.0	5.6	8.7	8.2	5.4
80°	0.9	2.9	5.3	4.1	2.0
85°	0.3	1.0	1.7	1.3	0.5
90°	0.7	0.2	0.2	0.1	0.0
95°	6.1	2.0	0.8	0.5	0.1
100°	7.6	5.8	1.8	0.9	0.3
105°	7.9	12.0	3.4	1.5	0.6
110°	7.3	15.7	9.0	2.5	1.4
115°	8.0	15.8	16.8	8.2	3.9
120°	8.5	17.4	18.5	20.0	16.8
125°	8.5	15.9	20.8	22.6	23.0
130°	8.9	12.5	24.6	23.9	23.0
135°	7.7	13.0	24.1	27.5	28.2
140°	7.1	12.5	19.6	30.2	30.4
145°	6.7	10.2	15.2	22.1	27.9
150°	5.7	10.2	13.4	15.3	17.3
155°	4.9	7.9	12.7	14.3	13.4
160°	4.4	6.0	9.7	12.1	11.4
165°	4.1	5.6	8.1	8.6	10.9
170°	4.0	4.3	6.5	5.9	6.4
175°	4.1	3.7	4.3	4.9	3.6
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)