

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: 89384

Luminaire Tested: **VB-SH-3T5-XUX-1**

Issue Date: 3/3/2020

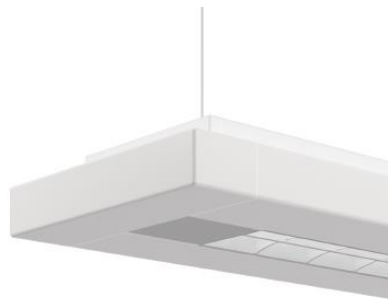
**Test Information**

Test Method: LM-41-14  
Report Number: 89384  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VB-SH-3T5-XUX-1  
Description: CORELITE VERTECHS SUSPENDED LUMINAIRE  
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER  
BLADE  
WITH DOWNLIGHT ISOLATORS  
Light Source: 54 WATT T5 LAMPS  
FP54T5/841HO. LUMEN RATING = 4500 LMS.  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 4500 (1 lamp)  
Luminaire Lumens: 2186.1 lumens  
Efficiency: 48.6%  
Efficacy: 37.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Indirect

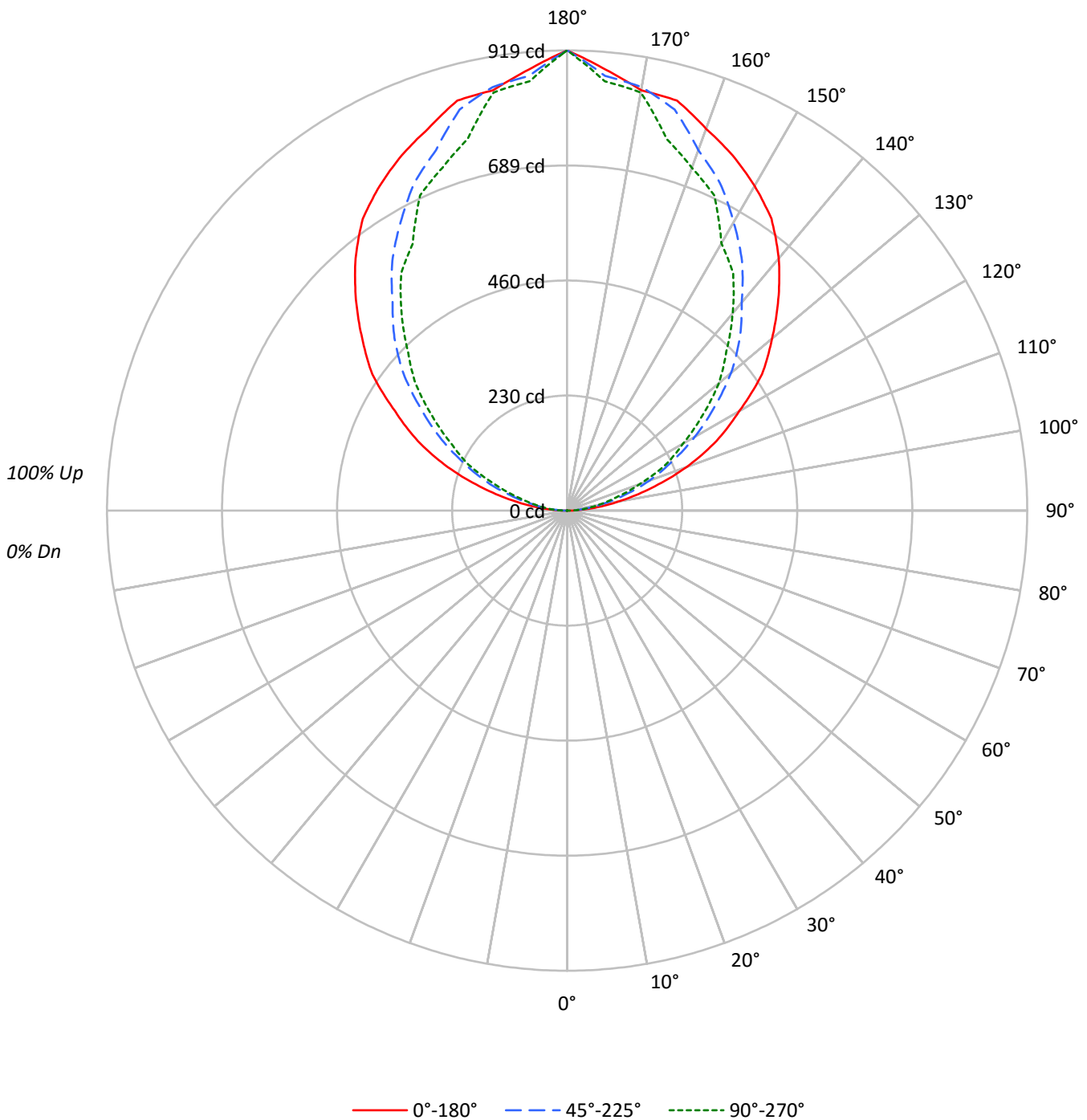
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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													
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10										
RCR																														
0	46	46	46	46	40	40	40	40	27	27	27	16	16	16	5	5	5	0												
1	42	40	38	37	36	34	33	32	23	23	22	14	13	13	4	4	4	0												
2	38	35	32	30	33	30	28	26	21	19	18	12	11	11	4	4	3	0												
3	35	31	27	25	30	26	24	22	18	16	15	10	10	9	3	3	3	0												
4	32	27	24	21	27	23	20	18	16	14	13	9	8	8	3	3	2	0												
5	29	24	20	18	25	21	18	15	14	12	11	8	7	6	3	2	2	0												
6	27	21	18	15	23	18	15	13	13	11	9	7	6	6	2	2	2	0												
7	24	19	16	13	21	16	13	11	11	9	8	7	6	5	2	2	2	0												
8	23	17	14	11	19	15	12	10	10	8	7	6	5	4	2	2	1	0												
9	21	15	12	10	18	13	11	9	9	7	6	5	4	4	2	1	1	0												
10	19	14	11	9	17	12	9	8	8	7	5	5	4	3	2	1	1	0												

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	1	0	0
50°	1	0	0
55°	1	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.9	0.0	0.0
90°-100°	38.4	1.8	0.9
100°-110°	134.3	6.1	3.0
110°-120°	245.1	11.2	5.4
120°-130°	338.2	15.5	7.5
130°-140°	389.8	17.8	8.7
140°-150°	391.0	17.9	8.7
150°-160°	335.8	15.4	7.5
160°-170°	230.0	10.5	5.1
170°-180°	82.5	3.8	1.8
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.9	0.0	0.0
90°-120°	417.7	19.1	9.3
90°-150°	1536.8	70.3	34.2
90°-180°	2185.0	100.0	48.6
0°-180°	2186.1	100.0	48.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	4	3	3	3	3	7
95°	44	33	29	29	31	52
105°	173	139	116	108	101	186
115°	329	270	230	219	217	324
125°	475	413	358	341	329	421
135°	596	546	488	456	450	461
145°	711	671	609	581	578	443
155°	782	769	722	692	695	361
165°	848	843	829	797	768	238
175°	884	852	871	861	861	84
180°	919	919	919	919	919	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.1	0.0
15°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.1
25°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
45°	0.1	0.0	0.0	0.0	0.0
50°	0.1	0.0	0.0	0.0	0.0
55°	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
90°	3.5	3.2	3.3	3.1	3.0
95°	43.9	32.7	28.8	29.0	30.9
100°	104.8	79.4	67.2	64.8	62.2
105°	173.3	138.6	116.5	108.5	101.2
110°	253.4	199.8	174.4	161.1	154.2
115°	329.1	270.2	230.0	219.1	217.4
120°	396.6	338.8	294.3	272.3	267.0
125°	475.4	413.1	357.9	341.1	328.7
130°	534.2	485.8	427.2	405.7	395.4
135°	596.5	545.6	487.7	455.8	449.7
140°	657.6	615.4	542.6	521.8	514.5
145°	711.4	671.3	609.0	580.6	578.0
150°	748.8	727.9	665.0	633.8	616.3
155°	782.5	768.8	722.1	692.2	694.6
160°	811.6	796.9	766.0	757.9	728.6
165°	847.7	842.9	829.0	797.4	768.3
170°	852.3	846.5	858.6	832.6	847.8
175°	883.9	852.1	871.4	861.2	860.6
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)