

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: 89160

Luminaire Tested: **E2-SH-3T5-XUX-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89160
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-XUX-1
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

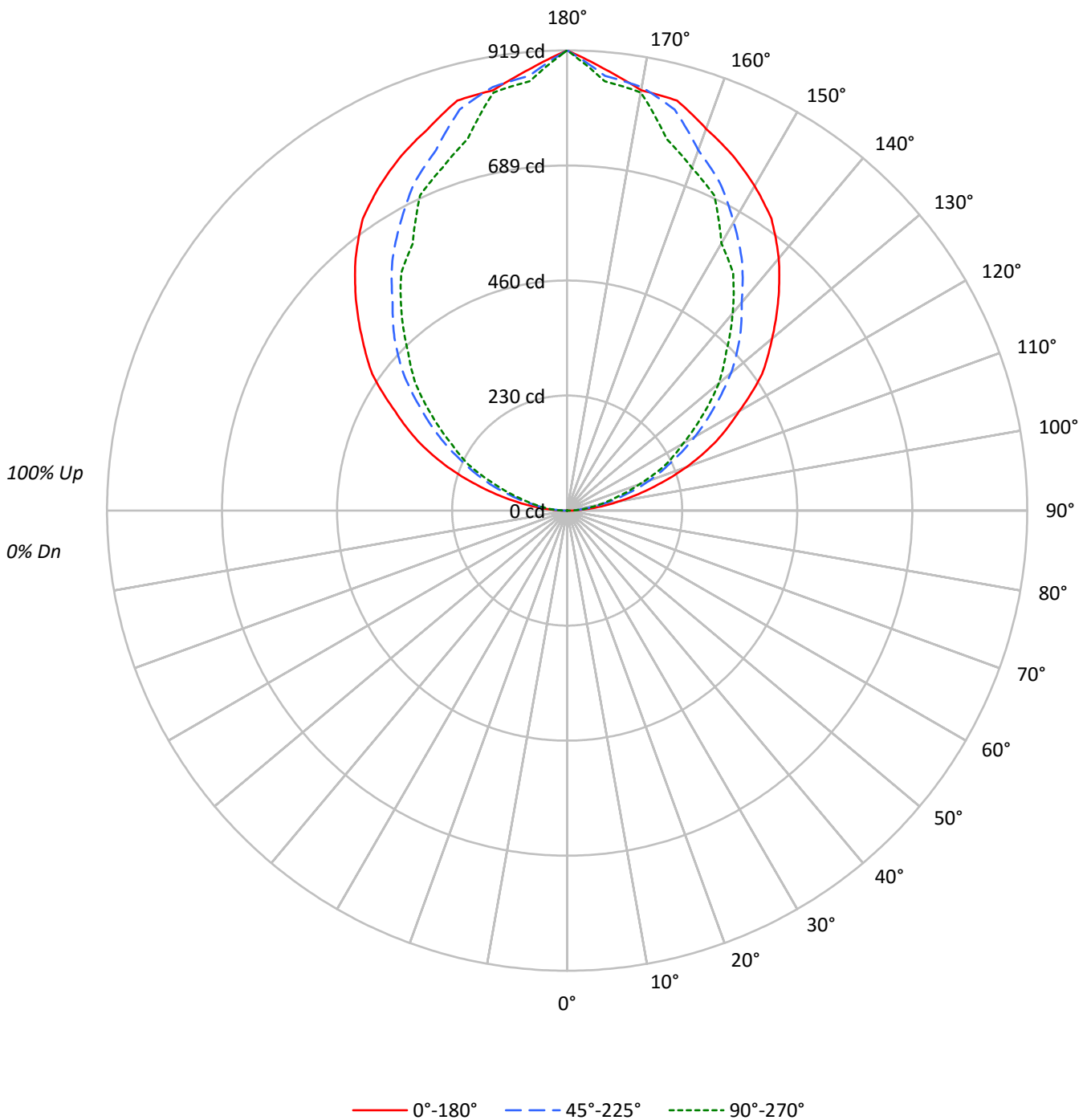
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2186.1 lumens
Efficiency: 48.6%
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Indirect

Input Watts (W): 59
Input Voltage (V): NR
Input Current (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 | | | | 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 |



TEST NUMBER: 89160

CATALOG NUMBER: E2-SH-3T5-XUX-1

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 | |



TEST NUMBER: 89160

CATALOG NUMBER: E2-SH-3T5-XUX-1

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)