

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: 89192

Luminaire Tested: **L2-SH-3T5-DL-3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89192
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-SH-3T5-DL-3
Description: CORELITE LOFT 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

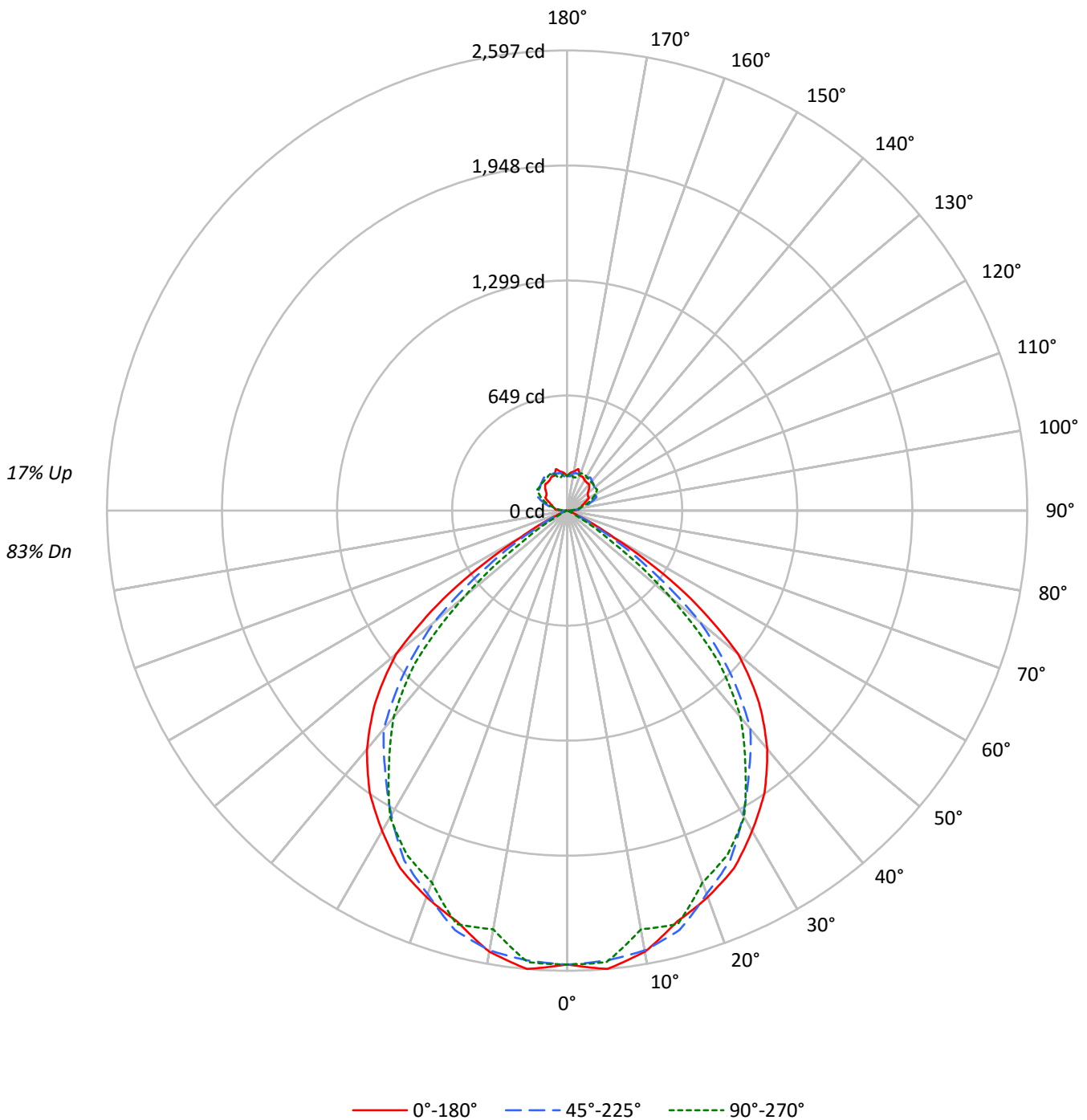
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 5675.9 lumens
Efficiency: 42.0%
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.17 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

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 | 48 | 48 | 48 | 48 | 46 | 46 | 46 | 46 | 43 | 43 | 43 | 39 | 39 | 39 | 36 | 36 | 36 | 35 |
| 1 | 45 | 44 | 42 | 41 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 36 | 35 | 34 | 33 | 33 | 32 |
| 2 | 42 | 39 | 37 | 35 | 40 | 38 | 36 | 34 | 36 | 34 | 33 | 33 | 32 | 31 | 31 | 30 | 29 | 28 |
| 3 | 39 | 36 | 33 | 31 | 37 | 34 | 32 | 30 | 32 | 30 | 29 | 30 | 29 | 27 | 28 | 27 | 26 | 25 |
| 4 | 36 | 32 | 29 | 27 | 35 | 31 | 28 | 26 | 29 | 27 | 25 | 28 | 26 | 24 | 26 | 24 | 23 | 22 |
| 5 | 34 | 29 | 26 | 24 | 32 | 28 | 25 | 23 | 27 | 24 | 22 | 25 | 23 | 22 | 24 | 22 | 21 | 20 |
| 6 | 31 | 27 | 23 | 21 | 30 | 26 | 23 | 21 | 24 | 22 | 20 | 23 | 21 | 19 | 22 | 20 | 19 | 18 |
| 7 | 29 | 24 | 21 | 19 | 28 | 24 | 21 | 19 | 22 | 20 | 18 | 21 | 19 | 17 | 20 | 18 | 17 | 16 |
| 8 | 27 | 22 | 19 | 17 | 26 | 22 | 19 | 17 | 21 | 18 | 16 | 20 | 17 | 16 | 19 | 17 | 15 | 14 |
| 9 | 25 | 21 | 17 | 15 | 25 | 20 | 17 | 15 | 19 | 17 | 15 | 18 | 16 | 14 | 17 | 15 | 14 | 13 |
| 10 | 24 | 19 | 16 | 14 | 23 | 19 | 16 | 14 | 18 | 15 | 14 | 17 | 15 | 13 | 16 | 14 | 13 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12052 | 12052 | 12052 |
| 5° | 12173 | 11565 | 11499 |
| 10° | 11901 | 11126 | 10407 |
| 15° | 11435 | 10607 | 10189 |
| 20° | 11278 | 9852 | 9242 |
| 25° | 11131 | 9280 | 8761 |
| 30° | 10821 | 8493 | 8139 |
| 35° | 10538 | 7751 | 7174 |
| 40° | 10086 | 7104 | 6303 |
| 45° | 9402 | 5931 | 5114 |
| 50° | 8383 | 4597 | 3300 |
| 55° | 5979 | 2691 | 1431 |
| 60° | 2505 | 1112 | 344 |
| 65° | 613 | 331 | 92 |
| 70° | 256 | 175 | 42 |
| 75° | 168 | 122 | 21 |
| 80° | 131 | 88 | 10 |
| 85° | 152 | 65 | 22 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 243.0 | 4.3 | 1.8 |
| 10°-20° | 683.4 | 12.0 | 5.1 |
| 20°-30° | 1001.1 | 17.6 | 7.4 |
| 30°-40° | 1146.4 | 20.2 | 8.5 |
| 40°-50° | 1023.9 | 18.0 | 7.6 |
| 50°-60° | 516.0 | 9.1 | 3.8 |
| 60°-70° | 78.8 | 1.4 | 0.6 |
| 70°-80° | 14.7 | 0.3 | 0.1 |
| 80°-90° | 10.4 | 0.2 | 0.1 |
| 90°-100° | 53.6 | 0.9 | 0.4 |
| 100°-110° | 114.2 | 2.0 | 0.8 |
| 110°-120° | 156.8 | 2.8 | 1.2 |
| 120°-130° | 167.7 | 3.0 | 1.2 |
| 130°-140° | 156.1 | 2.7 | 1.2 |
| 140°-150° | 130.7 | 2.3 | 1.0 |
| 150°-160° | 99.0 | 1.7 | 0.7 |
| 160°-170° | 60.3 | 1.1 | 0.4 |
| 170°-180° | 19.7 | 0.3 | 0.1 |
| 0°-30° | 1927.5 | 34.0 | 14.3 |
| 0°-40° | 3073.9 | 54.2 | 22.8 |
| 0°-60° | 4613.8 | 81.3 | 34.2 |
| 0°-90° | 4717.7 | 83.1 | 34.9 |
| 90°-120° | 324.6 | 5.7 | 2.4 |
| 90°-150° | 779.1 | 13.7 | 5.8 |
| 90°-180° | 958.0 | 16.9 | 7.1 |
| 0°-180° | 5675.9 | 100.0 | 42.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2562 | 2562 | 2562 | 2562 | 2562 | |
| 5° | 2597 | 2545 | 2549 | 2628 | 2558 | 245 |
| 15° | 2400 | 2475 | 2450 | 2409 | 2415 | 681 |
| 25° | 2228 | 2226 | 2177 | 2097 | 2142 | 1023 |
| 35° | 1942 | 1894 | 1790 | 1794 | 1753 | 1211 |
| 45° | 1531 | 1455 | 1307 | 1248 | 1212 | 1173 |
| 55° | 816 | 747 | 547 | 398 | 318 | 710 |
| 65° | 65 | 66 | 60 | 31 | 18 | 112 |
| 75° | 12 | 17 | 18 | 9 | 4 | 14 |
| 85° | 6 | 6 | 8 | 7 | 3 | 6 |
| 90° | 26 | 20 | 16 | 16 | 12 | 17 |
| 95° | 66 | 60 | 44 | 45 | 34 | 47 |
| 105° | 84 | 117 | 114 | 118 | 93 | 88 |
| 115° | 113 | 143 | 183 | 181 | 155 | 114 |
| 125° | 144 | 164 | 198 | 219 | 206 | 130 |
| 135° | 174 | 194 | 210 | 220 | 208 | 134 |
| 145° | 192 | 190 | 228 | 213 | 213 | 122 |
| 155° | 210 | 202 | 219 | 217 | 227 | 96 |
| 165° | 243 | 203 | 216 | 206 | 192 | 65 |
| 175° | 214 | 215 | 194 | 210 | 212 | 21 |
| 180° | 195 | 195 | 195 | 195 | 195 | |



TEST NUMBER: 89192

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|--------|--------|--------|--------|--------|
| 0° | 2562.0 | 2562.0 | 2562.0 | 2562.0 | 2562.0 |
| 5° | 2596.6 | 2544.7 | 2549.0 | 2628.0 | 2557.9 |
| 10° | 2528.1 | 2510.0 | 2520.7 | 2510.7 | 2400.0 |
| 15° | 2400.5 | 2475.2 | 2450.3 | 2409.1 | 2415.2 |
| 20° | 2321.2 | 2388.1 | 2302.0 | 2244.2 | 2233.5 |
| 25° | 2227.8 | 2225.8 | 2176.8 | 2096.9 | 2141.6 |
| 30° | 2087.9 | 2132.6 | 1984.6 | 1968.2 | 1996.9 |
| 35° | 1942.1 | 1894.2 | 1790.5 | 1793.8 | 1753.3 |
| 40° | 1757.3 | 1736.1 | 1609.6 | 1533.3 | 1522.7 |
| 45° | 1531.0 | 1455.3 | 1307.4 | 1247.9 | 1211.7 |
| 50° | 1259.2 | 1175.1 | 977.3 | 819.8 | 760.6 |
| 55° | 815.7 | 746.8 | 546.6 | 398.0 | 318.1 |
| 60° | 304.6 | 282.9 | 213.6 | 115.6 | 73.0 |
| 65° | 64.9 | 66.2 | 59.5 | 31.1 | 18.4 |
| 70° | 22.9 | 27.1 | 29.0 | 14.9 | 7.8 |
| 75° | 12.1 | 17.3 | 18.4 | 8.9 | 3.6 |
| 80° | 7.1 | 11.6 | 11.8 | 4.7 | 1.6 |
| 85° | 5.5 | 6.3 | 7.6 | 6.6 | 3.1 |
| 90° | 25.5 | 19.5 | 15.8 | 16.2 | 11.6 |
| 95° | 65.6 | 59.9 | 44.4 | 44.8 | 34.5 |
| 100° | 70.4 | 86.7 | 84.1 | 79.5 | 65.0 |
| 105° | 84.3 | 116.9 | 113.7 | 117.6 | 92.8 |
| 110° | 93.4 | 131.9 | 149.0 | 148.4 | 124.9 |
| 115° | 113.4 | 143.4 | 183.3 | 181.0 | 155.4 |
| 120° | 141.7 | 159.7 | 180.3 | 206.8 | 181.8 |
| 125° | 143.8 | 164.2 | 197.7 | 219.2 | 206.2 |
| 130° | 151.6 | 178.7 | 200.6 | 214.6 | 203.7 |
| 135° | 174.4 | 193.5 | 209.8 | 220.3 | 208.3 |
| 140° | 193.4 | 192.7 | 217.5 | 212.7 | 210.9 |
| 145° | 192.4 | 190.2 | 227.8 | 212.6 | 213.4 |
| 150° | 197.8 | 200.7 | 216.7 | 212.3 | 220.1 |
| 155° | 209.9 | 201.6 | 218.7 | 217.2 | 226.9 |
| 160° | 209.5 | 223.1 | 224.0 | 212.4 | 223.6 |
| 165° | 242.9 | 203.1 | 216.0 | 205.6 | 192.5 |
| 170° | 224.3 | 212.1 | 216.2 | 199.3 | 191.8 |
| 175° | 214.5 | 214.7 | 194.0 | 210.2 | 211.9 |
| 180° | 194.9 | 194.9 | 194.9 | 194.9 | 194.9 |

(END OF REPORT)