

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: HALO

Report Number: P256537

Luminaire Tested: **RL56129S1EWH -2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27627)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL56129S1EWH -2700K
Description: Halo RL 5/6in Downlight - SeleCCTable 2700K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1205.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

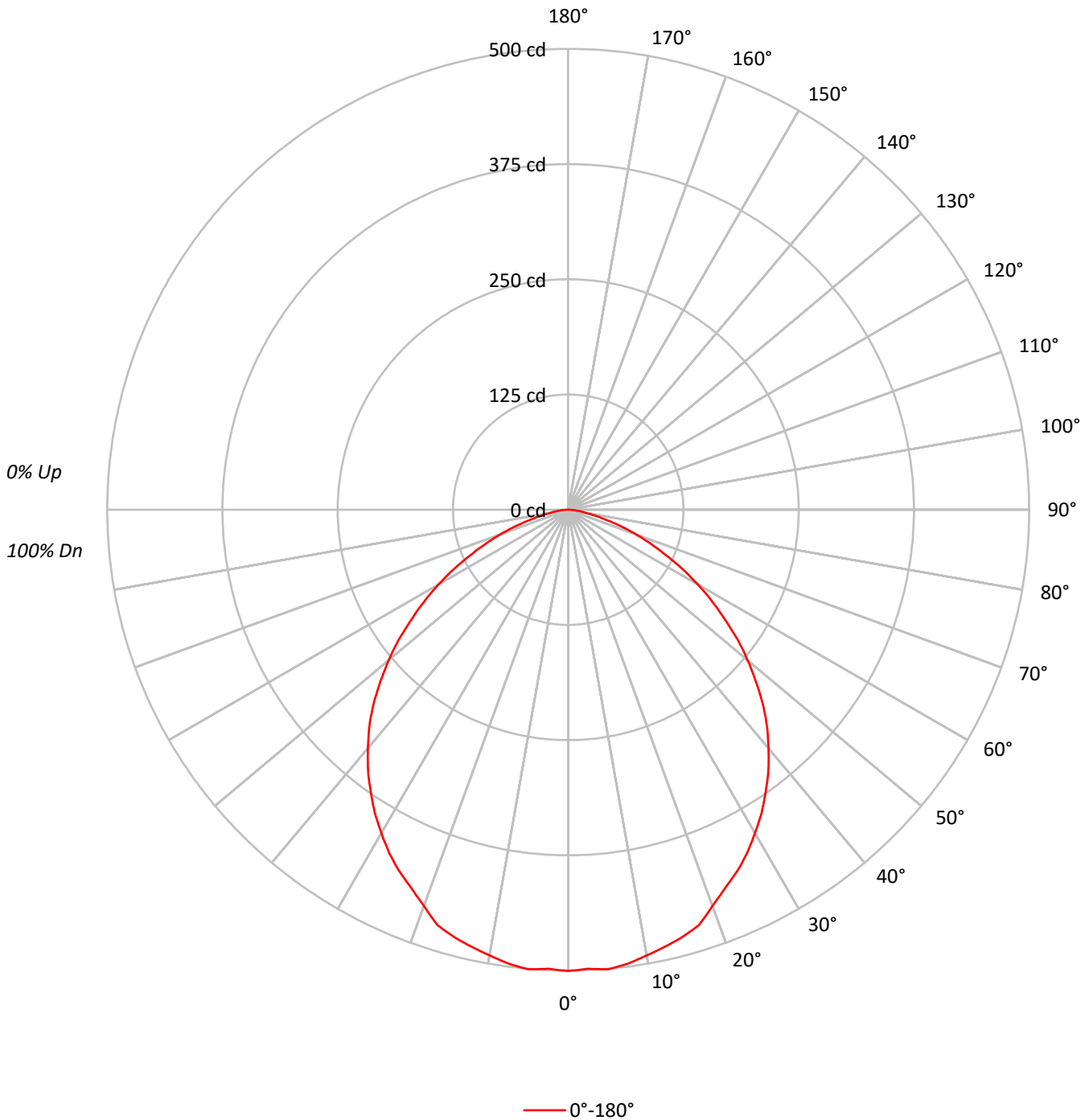
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256537

CATALOG NUMBER: RL56129S1EWH -2700K

Luminous Intensity Polar Plot





TEST NUMBER: P256537

CATALOG NUMBER: RL56129S1EWH -2700K

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 66 | 59 | 83 | 73 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 55 |
| 5 | 78 | 66 | 58 | 52 | 76 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 48 |
| 6 | 73 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | 42 |
| 7 | 67 | 55 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 44 | 40 | 49 | 44 | 39 | 37 |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 35 | 33 |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 21549 |
| 5° | 21632 |
| 10° | 21471 |
| 15° | 21391 |
| 20° | 20962 |
| 25° | 20580 |
| 30° | 20145 |
| 35° | 19632 |
| 40° | 18997 |
| 45° | 18194 |
| 50° | 17014 |
| 55° | 15561 |
| 60° | 13993 |
| 65° | 11981 |
| 70° | 9869 |
| 75° | 7137 |
| 80° | 4637 |
| 85° | 3705 |



TEST NUMBER: P256537

CATALOG NUMBER: RL56129S1EWH -2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.4 | 3.9 |
| 10°-20° | 135.1 | 11.2 |
| 20°-30° | 199.4 | 16.5 |
| 30°-40° | 233.5 | 19.4 |
| 40°-50° | 229.6 | 19.1 |
| 50°-60° | 185.8 | 15.4 |
| 60°-70° | 117.4 | 9.7 |
| 70°-80° | 47.7 | 4.0 |
| 80°-90° | 9.2 | 0.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 381.9 | 31.7 |
| 0°-40° | 615.4 | 51.1 |
| 0°-60° | 1030.8 | 85.5 |
| 0°-90° | 1205.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1205.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 500 | |
| 5° | 500 | 47 |
| 15° | 480 | 135 |
| 25° | 433 | 199 |
| 35° | 374 | 234 |
| 45° | 299 | 230 |
| 55° | 207 | 186 |
| 65° | 118 | 117 |
| 75° | 43 | 48 |
| 85° | 8 | 9 |
| 90° | 0 | |



TEST NUMBER: P256537

CATALOG NUMBER: RL56129S1EWH -2700K

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 500.5 |
| 2.5° | 498.6 |
| 5° | 500.5 |
| 7.5° | 496.7 |
| 10° | 491.1 |
| 12.5° | 485.5 |
| 15° | 479.9 |
| 17.5° | 472.4 |
| 20° | 457.5 |
| 22.5° | 444.4 |
| 25° | 433.2 |
| 27.5° | 420.2 |
| 30° | 405.2 |
| 32.5° | 390.3 |
| 35° | 373.5 |
| 37.5° | 356.7 |
| 40° | 338.0 |
| 42.5° | 319.3 |
| 45° | 298.8 |
| 47.5° | 276.4 |
| 50° | 254.0 |
| 52.5° | 231.6 |
| 55° | 207.3 |
| 57.5° | 184.9 |
| 60° | 162.5 |
| 62.5° | 140.1 |
| 65° | 117.6 |
| 67.5° | 97.1 |
| 70° | 78.4 |
| 72.5° | 59.8 |
| 75° | 42.9 |
| 77.5° | 29.9 |
| 80° | 18.7 |
| 82.5° | 13.1 |
| 85° | 7.5 |
| 87.5° | 3.7 |
| 90° | 0.0 |

(END OF REPORT)