

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1314530

Luminaire Tested: LDSQA3D09R509730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509730DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

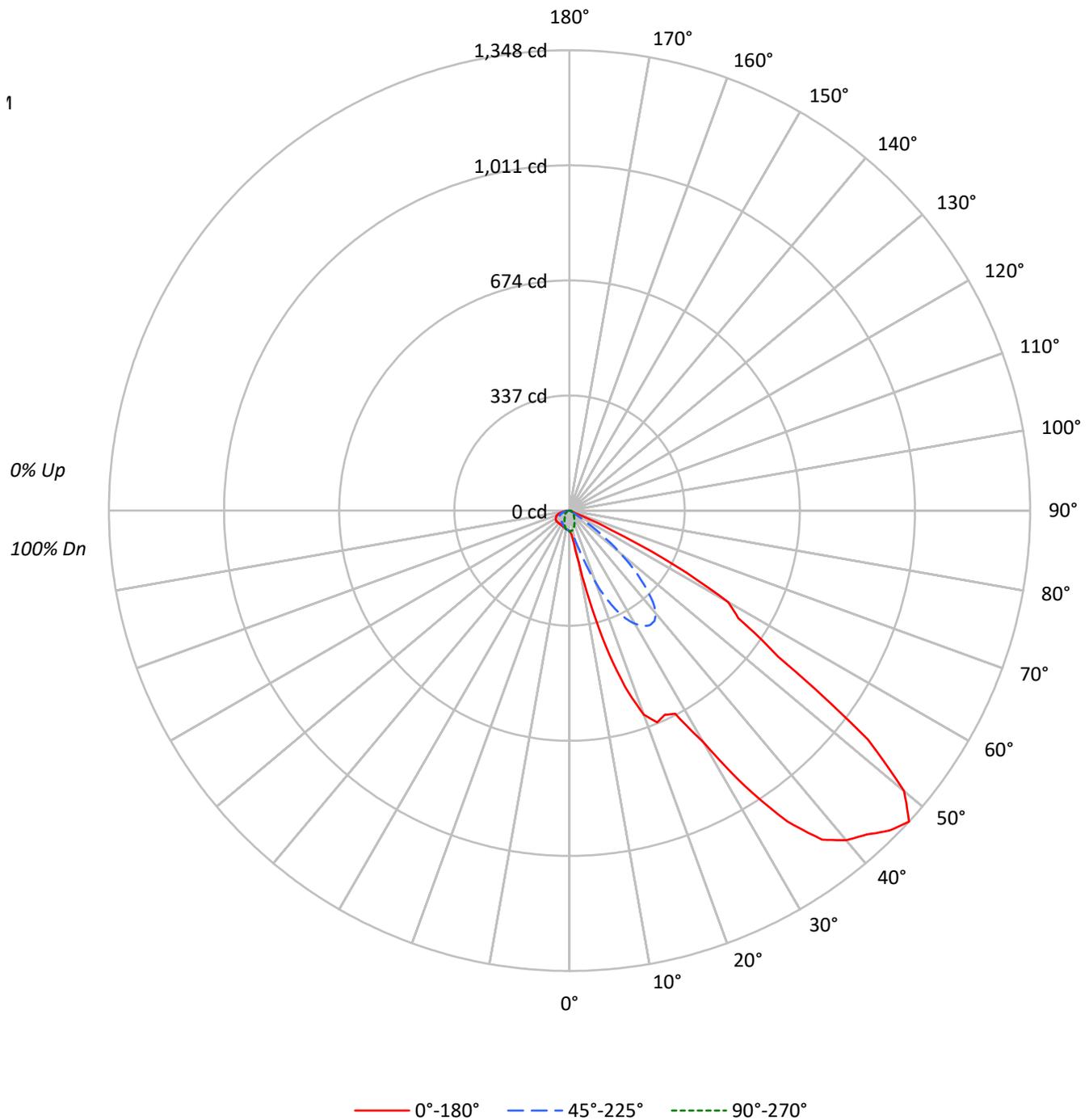
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 760.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: 24 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P1314530

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 37 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 9 | 54 | 40 | 31 | 26 | 53 | 39 | 31 | 26 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |
| 10 | 50 | 36 | 28 | 23 | 49 | 36 | 28 | 22 | 35 | 27 | 22 | 34 | 27 | 22 | 33 | 27 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|-------|-------|-------|
| 0° | 10402 | 10402 | 10402 | 10402 | 10402 |
| 5° | 12378 | 11583 | 10321 | 9871 | 9768 |
| 10° | 26634 | 14358 | 9881 | 9531 | 9636 |
| 15° | 73744 | 23518 | 8897 | 9129 | 9485 |
| 20° | 116582 | 41274 | 7698 | 8779 | 9255 |
| 25° | 125361 | 60619 | 6613 | 8475 | 9349 |
| 30° | 155612 | 76106 | 5747 | 8352 | 9665 |
| 35° | 233519 | 86116 | 4962 | 8410 | 10218 |
| 40° | 283207 | 88557 | 4429 | 8701 | 10769 |
| 45° | 322643 | 75942 | 4311 | 9280 | 11837 |
| 50° | 342442 | 52407 | 4394 | 10021 | 13182 |
| 55° | 223724 | 21078 | 4324 | 10839 | 14593 |
| 60° | 184519 | 3617 | 4306 | 11746 | 16051 |
| 65° | 55626 | 1875 | 3994 | 12592 | 17645 |
| 70° | 2316 | 1964 | 3978 | 12891 | 19185 |
| 75° | 2196 | 2196 | 3926 | 13109 | 20961 |
| 80° | 1984 | 1984 | 3868 | 12992 | 21522 |
| 85° | 1383 | 2569 | 5138 | 13042 | 20748 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 343558 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.3 | 0.8 |
| 10°-20° | 36.0 | 4.7 |
| 20°-30° | 92.5 | 12.2 |
| 30°-40° | 166.2 | 21.9 |
| 40°-50° | 222.0 | 29.2 |
| 50°-60° | 169.1 | 22.2 |
| 60°-70° | 51.3 | 6.8 |
| 70°-80° | 12.3 | 1.6 |
| 80°-90° | 4.4 | 0.6 |
| 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° | 134.8 | 17.7 |
| 0°-40° | 301.0 | 39.6 |
| 0°-60° | 692.0 | 91.1 |
| 0°-90° | 760.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 760.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 60 | 60 | 60 | 60 | 60 | |
| 5° | 72 | 67 | 60 | 57 | 56 | 9 |
| 15° | 414 | 132 | 50 | 51 | 53 | 122 |
| 25° | 660 | 319 | 35 | 45 | 49 | 315 |
| 35° | 1111 | 410 | 24 | 40 | 49 | 682 |
| 45° | 1325 | 312 | 18 | 38 | 49 | 1013 |
| 55° | 745 | 70 | 14 | 36 | 49 | 741 |
| 65° | 136 | 5 | 10 | 31 | 43 | 189 |
| 75° | 3 | 3 | 6 | 20 | 32 | 3 |
| 85° | 1 | 1 | 3 | 7 | 10 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0° | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |
| 2.5° | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 63.7 | 63.7 | 63.7 | 62.4 | 61.0 |
| 5° | 71.6 | 72.2 | 71.6 | 71.6 | 70.2 | 70.2 | 68.9 | 68.9 | 67.0 | 63.0 | 59.7 |
| 7.5° | 93.9 | 93.2 | 92.6 | 89.9 | 88.0 | 83.4 | 81.4 | 78.1 | 72.2 | 63.0 | 58.4 |
| 10° | 152.3 | 148.4 | 145.7 | 139.8 | 127.3 | 119.5 | 109.0 | 98.5 | 82.1 | 63.0 | 56.5 |
| 12.5° | 264.5 | 263.9 | 256.0 | 236.3 | 218.6 | 194.3 | 168.7 | 143.1 | 101.1 | 61.7 | 53.8 |
| 15° | 413.6 | 407.7 | 396.5 | 373.5 | 342.0 | 303.9 | 258.0 | 212.7 | 131.9 | 59.7 | 49.9 |
| 17.5° | 540.9 | 533.7 | 525.2 | 502.2 | 466.1 | 418.2 | 363.0 | 300.7 | 174.0 | 57.1 | 46.0 |
| 20° | 636.1 | 631.5 | 624.3 | 605.9 | 571.8 | 528.4 | 466.7 | 391.2 | 225.2 | 53.8 | 42.0 |
| 22.5° | 670.9 | 670.2 | 671.5 | 665.0 | 647.9 | 613.8 | 554.7 | 475.9 | 275.7 | 49.9 | 38.1 |
| 25° | 659.7 | 659.1 | 667.6 | 676.1 | 680.1 | 666.3 | 621.0 | 544.2 | 319.0 | 46.6 | 34.8 |
| 27.5° | 670.2 | 668.3 | 664.3 | 665.6 | 676.8 | 684.7 | 663.7 | 596.7 | 356.4 | 42.0 | 31.5 |
| 30° | 782.5 | 771.3 | 753.6 | 723.4 | 701.1 | 699.1 | 689.9 | 638.1 | 382.7 | 37.4 | 28.9 |
| 32.5° | 957.7 | 944.0 | 911.8 | 856.0 | 802.8 | 762.1 | 733.2 | 672.9 | 401.1 | 32.8 | 25.6 |
| 35° | 1110.7 | 1100.9 | 1063.4 | 1008.3 | 932.1 | 856.0 | 803.5 | 724.1 | 409.6 | 28.9 | 23.6 |
| 37.5° | 1214.4 | 1210.5 | 1173.7 | 1114.6 | 1037.2 | 947.2 | 877.7 | 776.6 | 407.7 | 24.3 | 21.7 |
| 40° | 1259.7 | 1247.9 | 1217.0 | 1167.2 | 1089.0 | 1008.3 | 934.8 | 810.0 | 393.9 | 19.7 | 19.7 |
| 42.5° | 1286.6 | 1273.5 | 1240.0 | 1192.8 | 1116.0 | 1030.0 | 941.3 | 795.6 | 361.0 | 15.8 | 19.0 |
| 45° | 1324.7 | 1310.9 | 1266.9 | 1216.4 | 1138.9 | 1039.1 | 915.7 | 744.4 | 311.8 | 11.8 | 17.7 |
| 47.5° | 1347.7 | 1338.5 | 1305.7 | 1255.1 | 1161.2 | 1026.0 | 856.7 | 696.5 | 257.3 | 9.2 | 17.1 |
| 50° | 1278.1 | 1268.9 | 1244.6 | 1209.8 | 1146.8 | 982.0 | 804.8 | 619.0 | 195.6 | 7.2 | 16.4 |
| 52.5° | 1100.2 | 1108.1 | 1112.7 | 1122.5 | 1076.6 | 883.6 | 727.3 | 557.3 | 131.9 | 5.9 | 15.1 |
| 55° | 745.1 | 756.9 | 770.0 | 809.4 | 863.2 | 786.4 | 645.9 | 481.8 | 70.2 | 5.9 | 14.4 |
| 57.5° | 585.5 | 581.6 | 577.7 | 575.0 | 617.1 | 648.6 | 567.8 | 385.3 | 30.2 | 5.9 | 13.1 |
| 60° | 535.7 | 523.8 | 516.0 | 517.9 | 538.9 | 526.5 | 449.7 | 251.4 | 10.5 | 5.9 | 12.5 |
| 62.5° | 351.2 | 360.4 | 378.1 | 408.3 | 393.9 | 338.1 | 261.3 | 99.8 | 5.3 | 5.9 | 11.2 |
| 65° | 136.5 | 131.9 | 136.5 | 145.1 | 125.4 | 93.2 | 58.4 | 17.7 | 4.6 | 5.3 | 9.8 |
| 67.5° | 18.4 | 16.4 | 12.5 | 7.9 | 7.2 | 6.6 | 5.3 | 4.6 | 4.6 | 5.3 | 9.2 |
| 70° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 3.9 | 3.9 | 4.6 | 7.9 |
| 72.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 4.6 | 6.6 |
| 75° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.9 | 5.9 |
| 77.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.3 | 4.6 |
| 80° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.6 | 3.9 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.0 | 2.0 | 2.6 | 3.3 |
| 85° | 0.7 | 1.3 | 0.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.0 | 2.6 |
| 87.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.3 | 2.0 | 2.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 60.4 | 60.4 | 60.4 | 60.4 |
| 2.5° | 59.7 | 58.4 | 58.4 | 58.4 |
| 5° | 58.4 | 57.1 | 57.1 | 56.5 |
| 7.5° | 56.5 | 55.8 | 55.8 | 55.8 |
| 10° | 55.1 | 54.5 | 55.1 | 55.1 |
| 12.5° | 52.5 | 53.2 | 53.8 | 53.8 |
| 15° | 49.9 | 51.2 | 52.5 | 53.2 |
| 17.5° | 47.3 | 49.9 | 51.2 | 51.9 |
| 20° | 44.6 | 47.9 | 49.9 | 50.5 |
| 22.5° | 42.7 | 46.0 | 48.6 | 49.9 |
| 25° | 40.0 | 44.6 | 47.9 | 49.2 |
| 27.5° | 37.4 | 42.7 | 46.6 | 48.6 |
| 30° | 35.4 | 42.0 | 46.6 | 48.6 |
| 32.5° | 33.5 | 40.7 | 46.0 | 47.9 |
| 35° | 32.2 | 40.0 | 46.0 | 48.6 |
| 37.5° | 30.9 | 39.4 | 46.0 | 47.9 |
| 40° | 30.2 | 38.7 | 46.0 | 47.9 |
| 42.5° | 29.5 | 38.7 | 46.0 | 48.6 |
| 45° | 28.2 | 38.1 | 46.0 | 48.6 |
| 47.5° | 27.6 | 38.1 | 46.0 | 48.6 |
| 50° | 26.9 | 37.4 | 46.0 | 49.2 |
| 52.5° | 26.3 | 36.8 | 46.0 | 49.2 |
| 55° | 24.9 | 36.1 | 45.3 | 48.6 |
| 57.5° | 24.3 | 35.4 | 44.6 | 47.3 |
| 60° | 23.0 | 34.1 | 43.3 | 46.6 |
| 62.5° | 21.7 | 32.8 | 42.0 | 44.6 |
| 65° | 19.7 | 30.9 | 40.0 | 43.3 |
| 67.5° | 17.7 | 28.2 | 38.1 | 41.4 |
| 70° | 15.8 | 25.6 | 35.4 | 38.1 |
| 72.5° | 13.8 | 23.0 | 32.8 | 34.8 |
| 75° | 11.8 | 19.7 | 28.9 | 31.5 |
| 77.5° | 9.8 | 17.1 | 24.3 | 26.3 |
| 80° | 7.2 | 13.1 | 19.7 | 21.7 |
| 82.5° | 5.9 | 9.8 | 14.4 | 15.8 |
| 85° | 3.9 | 6.6 | 9.2 | 10.5 |
| 87.5° | 2.0 | 3.3 | 4.6 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)