

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243385

Luminaire Tested: S123RDRP-H340D927-X4F0-XX-UDD-F-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-64)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-H340D927-X4F0-XX-UDD-F-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

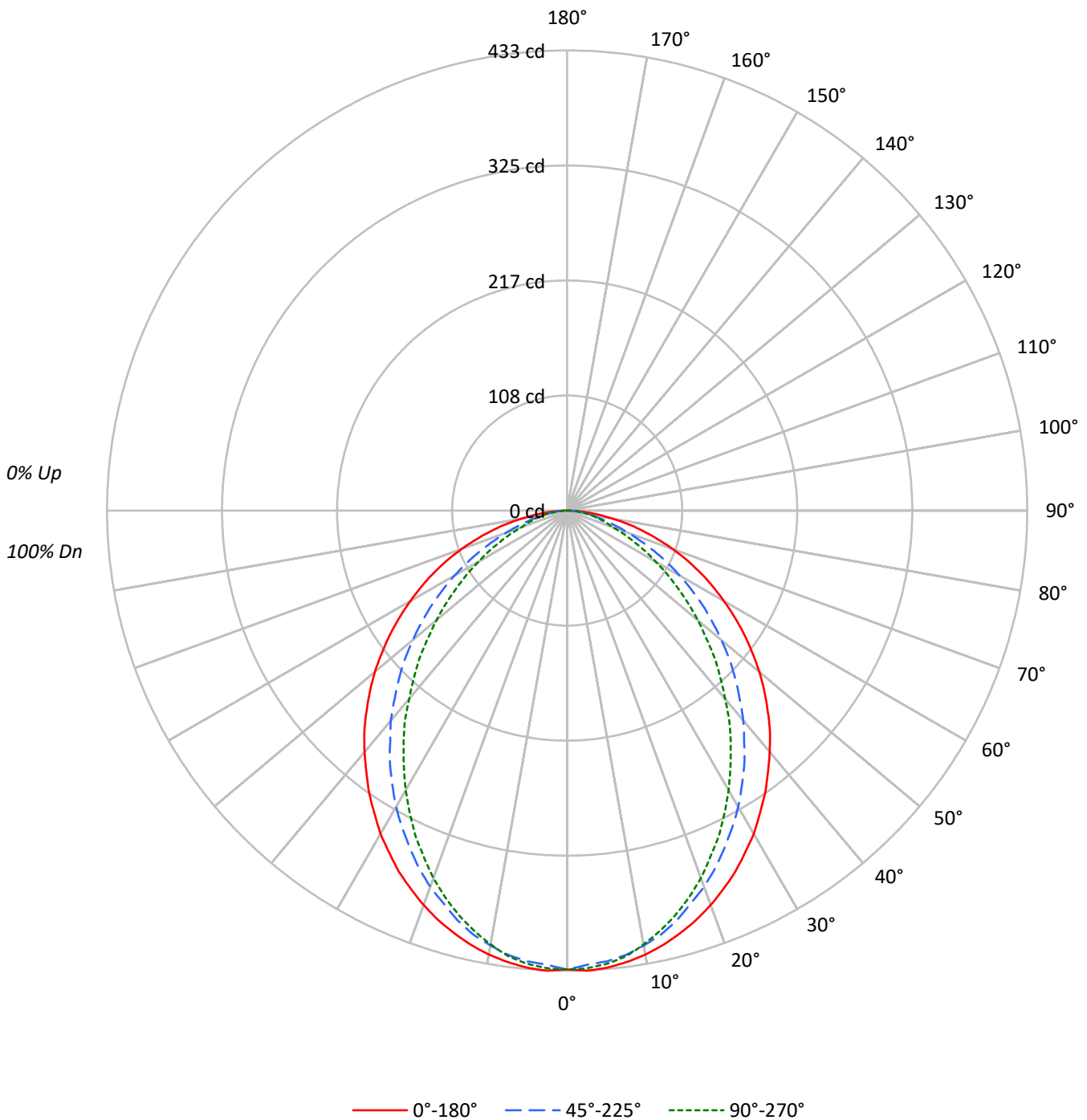
Lumens per Lamp: N/A
Luminaire Lumens: 974.9 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

Input Watts (W): 11.2
Input Voltage (V): 120
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: 24 FT

TEST NUMBER: P243385

CATALOG NUMBER: S123RDRP-H340D927-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P243385

CATALOG NUMBER: S123RDRP-H340D927-X4F0-XX-UDD-F-W

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 | 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 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 89 | 88 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 85 | 73 | 65 | 59 | 83 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 62 | 57 | 65 | 60 | 56 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 59 | 46 | 38 | 33 | 58 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 39 | 34 | 29 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5234 | 5234 | 5234 |
| 5° | 5254 | 5181 | 5209 |
| 10° | 5221 | 5114 | 5102 |
| 15° | 5165 | 5007 | 4944 |
| 20° | 5095 | 4859 | 4748 |
| 25° | 5011 | 4684 | 4515 |
| 30° | 4916 | 4507 | 4252 |
| 35° | 4805 | 4303 | 3970 |
| 40° | 4692 | 4082 | 3657 |
| 45° | 4577 | 3838 | 3365 |
| 50° | 4452 | 3572 | 3027 |
| 55° | 4303 | 3295 | 2684 |
| 60° | 4133 | 2967 | 2339 |
| 65° | 3967 | 2596 | 1996 |
| 70° | 3739 | 2176 | 1598 |
| 75° | 3447 | 1723 | 1522 |
| 80° | 3009 | 1529 | 1389 |
| 85° | 2531 | 1335 | 1293 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4577 cd/sqm



TEST NUMBER: P243385

CATALOG NUMBER: S123RDRP-H340D927-X4F0-XX-UDD-F-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.6 | 4.2 |
| 10°-20° | 113.1 | 11.6 |
| 20°-30° | 162.8 | 16.7 |
| 30°-40° | 183.4 | 18.8 |
| 40°-50° | 175.2 | 18.0 |
| 50°-60° | 143.2 | 14.7 |
| 60°-70° | 96.2 | 9.9 |
| 70°-80° | 48.0 | 4.9 |
| 80°-90° | 12.4 | 1.3 |
| 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° | 316.5 | 32.5 |
| 0°-40° | 499.9 | 51.3 |
| 0°-60° | 818.3 | 83.9 |
| 0°-90° | 974.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 974.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 432 | 432 | 432 | 432 | 432 | |
| 5° | 432 | 430 | 426 | 429 | 428 | 41 |
| 15° | 412 | 409 | 399 | 397 | 394 | 116 |
| 25° | 375 | 366 | 350 | 343 | 338 | 172 |
| 35° | 325 | 312 | 291 | 275 | 268 | 203 |
| 45° | 267 | 251 | 224 | 204 | 196 | 206 |
| 55° | 204 | 185 | 156 | 134 | 127 | 182 |
| 65° | 138 | 119 | 90 | 74 | 70 | 137 |
| 75° | 74 | 56 | 37 | 33 | 32 | 78 |
| 85° | 18 | 11 | 10 | 9 | 9 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243385

CATALOG NUMBER: S123RDRP-H340D927-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 |
| 2.5° | 433.4 | 432.4 | 431.1 | 431.5 | 431.8 | 432.1 | 432.1 | 431.8 | 430.8 | 429.5 | 427.8 |
| 5° | 431.8 | 430.8 | 429.5 | 429.5 | 430.1 | 430.1 | 430.1 | 429.8 | 428.8 | 427.5 | 425.8 |
| 7.5° | 428.5 | 427.8 | 426.1 | 426.5 | 426.8 | 426.8 | 426.8 | 426.5 | 425.2 | 423.5 | 421.8 |
| 10° | 424.2 | 423.2 | 421.8 | 421.8 | 422.2 | 422.2 | 422.2 | 421.5 | 419.8 | 417.9 | 415.5 |
| 12.5° | 418.5 | 417.5 | 416.2 | 416.2 | 416.2 | 416.2 | 416.2 | 415.2 | 412.5 | 410.6 | 408.6 |
| 15° | 411.6 | 410.6 | 409.2 | 409.2 | 408.9 | 408.6 | 407.9 | 406.2 | 403.9 | 401.6 | 399.0 |
| 17.5° | 403.9 | 402.6 | 400.9 | 400.6 | 400.3 | 399.9 | 399.0 | 398.0 | 394.6 | 391.3 | 387.3 |
| 20° | 395.0 | 393.6 | 392.0 | 391.7 | 390.7 | 389.7 | 389.0 | 387.0 | 383.4 | 379.4 | 376.7 |
| 22.5° | 385.0 | 383.7 | 382.0 | 381.4 | 379.4 | 378.7 | 377.7 | 374.7 | 370.8 | 367.1 | 364.1 |
| 25° | 374.7 | 373.1 | 371.1 | 370.1 | 367.8 | 366.5 | 366.1 | 361.8 | 357.8 | 353.9 | 350.2 |
| 27.5° | 362.8 | 361.5 | 359.8 | 357.8 | 355.5 | 353.9 | 353.2 | 349.2 | 344.2 | 339.6 | 336.3 |
| 30° | 351.2 | 349.2 | 347.6 | 345.2 | 341.9 | 340.3 | 338.9 | 334.9 | 330.6 | 325.0 | 322.0 |
| 32.5° | 337.6 | 336.3 | 334.3 | 332.0 | 328.6 | 327.3 | 325.3 | 320.4 | 314.7 | 310.7 | 306.1 |
| 35° | 324.7 | 323.3 | 320.4 | 318.0 | 313.4 | 312.1 | 310.1 | 305.8 | 299.5 | 294.8 | 290.8 |
| 37.5° | 310.4 | 308.7 | 306.4 | 303.1 | 299.1 | 297.5 | 294.8 | 290.5 | 283.2 | 278.6 | 273.6 |
| 40° | 296.5 | 294.2 | 291.5 | 287.9 | 283.9 | 282.2 | 279.9 | 273.6 | 267.6 | 262.3 | 258.0 |
| 42.5° | 282.6 | 279.9 | 276.6 | 273.3 | 269.0 | 266.6 | 264.0 | 258.0 | 251.4 | 246.4 | 240.4 |
| 45° | 267.0 | 265.0 | 261.7 | 257.7 | 252.7 | 251.0 | 248.1 | 241.8 | 235.1 | 229.8 | 223.9 |
| 47.5° | 251.7 | 249.4 | 246.1 | 242.1 | 237.1 | 234.8 | 231.8 | 225.5 | 218.9 | 212.2 | 206.9 |
| 50° | 236.1 | 233.8 | 229.8 | 225.8 | 221.2 | 218.2 | 215.6 | 209.3 | 202.0 | 196.0 | 189.4 |
| 52.5° | 219.5 | 217.6 | 214.2 | 210.3 | 204.3 | 202.0 | 199.3 | 192.3 | 185.4 | 178.4 | 172.4 |
| 55° | 203.6 | 202.3 | 198.3 | 194.3 | 188.0 | 185.4 | 182.7 | 175.4 | 168.5 | 161.5 | 155.9 |
| 57.5° | 187.0 | 186.0 | 182.1 | 177.4 | 171.8 | 169.1 | 165.8 | 158.5 | 151.9 | 144.9 | 139.0 |
| 60° | 170.5 | 169.5 | 165.5 | 160.8 | 155.5 | 152.2 | 148.6 | 142.9 | 135.3 | 129.0 | 122.4 |
| 62.5° | 154.5 | 153.2 | 149.9 | 144.9 | 139.0 | 135.6 | 132.3 | 125.7 | 118.7 | 112.1 | 106.1 |
| 65° | 138.3 | 136.6 | 132.7 | 127.7 | 122.0 | 119.1 | 115.7 | 109.4 | 102.5 | 96.2 | 90.5 |
| 67.5° | 122.0 | 120.4 | 116.1 | 112.1 | 105.5 | 102.5 | 99.5 | 93.2 | 86.6 | 80.3 | 74.9 |
| 70° | 105.5 | 103.8 | 100.5 | 95.2 | 89.5 | 86.6 | 83.6 | 76.9 | 71.0 | 66.3 | 61.4 |
| 72.5° | 89.2 | 87.9 | 84.6 | 79.6 | 74.3 | 71.3 | 68.0 | 62.3 | 57.0 | 52.1 | 48.4 |
| 75° | 73.6 | 71.6 | 68.6 | 64.0 | 58.7 | 56.0 | 53.7 | 48.1 | 43.1 | 39.8 | 36.8 |
| 77.5° | 58.7 | 56.4 | 53.1 | 49.4 | 44.4 | 41.8 | 39.5 | 34.8 | 31.5 | 29.2 | 28.5 |
| 80° | 43.1 | 42.8 | 39.5 | 35.5 | 31.2 | 29.2 | 26.9 | 23.9 | 22.9 | 22.6 | 21.9 |
| 82.5° | 30.2 | 28.9 | 26.2 | 22.6 | 19.2 | 17.9 | 17.2 | 16.6 | 15.9 | 15.9 | 15.3 |
| 85° | 18.2 | 16.9 | 14.6 | 11.6 | 10.9 | 10.6 | 10.3 | 10.3 | 9.9 | 9.6 | 9.6 |
| 87.5° | 8.0 | 6.6 | 5.0 | 4.6 | 4.3 | 4.3 | 4.6 | 4.6 | 4.6 | 4.3 | 4.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243385

CATALOG NUMBER: S123RDRP-H340D927-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 | 431.8 |
| 2.5° | 428.5 | 430.1 | 431.1 | 431.5 | 431.5 | 431.5 | 431.8 | 431.8 | 431.5 | 431.1 |
| 5° | 426.1 | 427.8 | 428.5 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 428.8 | 428.1 |
| 7.5° | 422.5 | 423.5 | 424.5 | 424.2 | 424.2 | 423.8 | 423.5 | 423.8 | 423.2 | 423.2 |
| 10° | 415.9 | 416.9 | 417.5 | 416.5 | 416.5 | 416.9 | 416.9 | 416.5 | 415.5 | 414.5 |
| 12.5° | 408.2 | 409.2 | 408.2 | 408.6 | 407.9 | 407.2 | 406.9 | 406.6 | 405.6 | 404.9 |
| 15° | 398.3 | 398.3 | 397.6 | 397.6 | 396.6 | 395.3 | 395.0 | 395.3 | 394.0 | 394.0 |
| 17.5° | 387.3 | 386.7 | 385.7 | 385.0 | 384.7 | 384.7 | 383.4 | 383.4 | 381.7 | 381.4 |
| 20° | 375.4 | 374.7 | 373.7 | 372.1 | 371.4 | 371.8 | 370.4 | 369.4 | 368.4 | 368.1 |
| 22.5° | 362.8 | 361.1 | 360.2 | 358.5 | 357.2 | 357.2 | 356.2 | 354.5 | 353.5 | 352.5 |
| 25° | 348.5 | 346.9 | 344.9 | 343.6 | 342.6 | 340.9 | 340.3 | 338.9 | 337.9 | 337.6 |
| 27.5° | 334.0 | 331.3 | 328.6 | 327.3 | 326.7 | 324.7 | 323.7 | 323.0 | 321.0 | 320.7 |
| 30° | 318.4 | 316.4 | 313.1 | 310.7 | 309.1 | 309.4 | 307.1 | 305.8 | 304.8 | 303.8 |
| 32.5° | 303.4 | 300.1 | 296.8 | 293.8 | 291.8 | 291.5 | 289.2 | 287.9 | 286.9 | 285.9 |
| 35° | 286.5 | 283.2 | 279.2 | 276.6 | 274.6 | 273.6 | 271.3 | 270.6 | 269.0 | 268.3 |
| 37.5° | 269.6 | 266.0 | 262.0 | 258.7 | 257.3 | 255.0 | 254.0 | 252.4 | 251.0 | 251.0 |
| 40° | 253.0 | 248.7 | 244.7 | 240.8 | 239.1 | 237.8 | 235.1 | 233.8 | 232.1 | 231.1 |
| 42.5° | 235.8 | 230.8 | 227.2 | 223.5 | 221.2 | 220.2 | 217.2 | 215.6 | 213.9 | 213.6 |
| 45° | 218.5 | 213.6 | 208.9 | 205.3 | 204.3 | 202.3 | 199.3 | 197.0 | 196.7 | 196.3 |
| 47.5° | 201.0 | 196.0 | 191.7 | 187.7 | 186.4 | 184.1 | 182.1 | 180.4 | 178.4 | 177.4 |
| 50° | 184.1 | 179.1 | 174.4 | 170.1 | 168.5 | 166.5 | 164.5 | 162.2 | 161.5 | 160.5 |
| 52.5° | 167.1 | 161.5 | 156.5 | 152.6 | 151.2 | 149.6 | 147.2 | 145.3 | 144.3 | 143.6 |
| 55° | 149.9 | 144.3 | 139.9 | 136.0 | 134.3 | 133.3 | 130.7 | 129.0 | 127.7 | 127.0 |
| 57.5° | 133.0 | 127.3 | 123.4 | 120.4 | 118.1 | 117.1 | 114.4 | 112.8 | 112.1 | 111.8 |
| 60° | 117.1 | 111.8 | 107.4 | 104.5 | 102.5 | 101.5 | 99.5 | 97.8 | 96.8 | 96.5 |
| 62.5° | 101.1 | 96.5 | 92.5 | 89.5 | 88.2 | 86.9 | 85.2 | 83.9 | 82.9 | 82.9 |
| 65° | 85.9 | 81.2 | 77.6 | 75.3 | 74.0 | 73.3 | 71.3 | 70.6 | 69.6 | 69.6 |
| 67.5° | 71.0 | 67.7 | 65.0 | 62.0 | 61.0 | 61.0 | 59.0 | 58.4 | 57.7 | 57.7 |
| 70° | 58.0 | 55.1 | 52.1 | 50.4 | 49.4 | 49.1 | 47.4 | 46.4 | 45.8 | 45.1 |
| 72.5° | 45.4 | 42.8 | 40.1 | 39.8 | 39.8 | 39.5 | 39.5 | 38.8 | 38.8 | 39.1 |
| 75° | 34.8 | 34.2 | 33.5 | 33.5 | 33.2 | 32.8 | 32.8 | 32.5 | 32.5 | 32.5 |
| 77.5° | 27.9 | 27.5 | 27.2 | 26.9 | 26.9 | 26.5 | 26.2 | 26.2 | 26.2 | 26.2 |
| 80° | 21.2 | 20.9 | 20.9 | 20.6 | 20.2 | 20.6 | 20.2 | 20.2 | 19.9 | 19.9 |
| 82.5° | 14.9 | 14.9 | 14.9 | 14.6 | 14.6 | 14.6 | 14.6 | 14.3 | 14.3 | 14.6 |
| 85° | 9.3 | 9.3 | 9.3 | 9.3 | 9.0 | 9.3 | 9.0 | 9.0 | 9.0 | 9.3 |
| 87.5° | 4.0 | 4.3 | 4.0 | 4.3 | 4.3 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243385
 CATALOG NUMBER: S123RDRP-H340D927-X4F0-XX-UDD-F-W

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 17.27 | 18.83 | 17.64 | 19.14 | 19.46 | 14.47 | 16.02 | 14.83 | 16.34 | 16.65 |
| | 3H | 19.10 | 20.50 | 19.48 | 20.83 | 21.19 | 15.54 | 16.94 | 15.92 | 17.27 | 17.63 |
| | 4H | 19.79 | 21.10 | 20.19 | 21.45 | 21.83 | 15.94 | 17.25 | 16.34 | 17.60 | 17.98 |
| | 6H | 20.29 | 21.50 | 20.70 | 21.87 | 22.26 | 16.26 | 17.47 | 16.67 | 17.84 | 18.23 |
| | 8H | 20.45 | 21.60 | 20.87 | 21.99 | 22.39 | 16.37 | 17.53 | 16.80 | 17.92 | 18.32 |
| | 12H | 20.54 | 21.65 | 20.97 | 22.03 | 22.46 | 16.45 | 17.55 | 16.88 | 17.94 | 18.36 |
| 4H | 2H | 17.52 | 18.83 | 17.91 | 19.17 | 19.55 | 15.19 | 16.50 | 15.59 | 16.85 | 17.22 |
| | 3H | 19.51 | 20.60 | 19.92 | 20.99 | 21.40 | 16.41 | 17.50 | 16.82 | 17.90 | 18.30 |
| | 4H | 20.29 | 21.28 | 20.73 | 21.69 | 22.13 | 16.90 | 17.88 | 17.33 | 18.29 | 18.73 |
| | 6H | 20.91 | 21.77 | 21.37 | 22.21 | 22.67 | 17.32 | 18.17 | 17.77 | 18.61 | 19.07 |
| | 8H | 21.12 | 21.91 | 21.58 | 22.36 | 22.82 | 17.46 | 18.26 | 17.93 | 18.70 | 19.17 |
| | 12H | 21.26 | 21.97 | 21.74 | 22.45 | 22.92 | 17.57 | 18.29 | 18.06 | 18.77 | 19.24 |
| 8H | 4H | 20.33 | 21.13 | 20.79 | 21.57 | 22.04 | 17.21 | 18.01 | 17.68 | 18.46 | 18.92 |
| | 6H | 21.00 | 21.66 | 21.49 | 22.15 | 22.63 | 17.73 | 18.39 | 18.22 | 18.88 | 19.36 |
| | 8H | 21.24 | 21.83 | 21.75 | 22.34 | 22.83 | 17.93 | 18.53 | 18.45 | 19.03 | 19.52 |
| | 12H | 21.43 | 21.96 | 21.94 | 22.45 | 23.01 | 18.11 | 18.63 | 18.62 | 19.12 | 19.69 |
| 12H | 4H | 20.32 | 21.03 | 20.80 | 21.51 | 21.98 | 17.25 | 17.97 | 17.73 | 18.44 | 18.91 |
| | 6H | 20.98 | 21.58 | 21.50 | 22.09 | 22.57 | 17.78 | 18.38 | 18.30 | 18.89 | 19.37 |
| | 8H | 21.26 | 21.78 | 21.77 | 22.28 | 22.84 | 18.04 | 18.57 | 18.55 | 19.06 | 19.62 |