

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



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: METALUX

Report Number: P1431811

Luminaire Tested: EHBR1-42-UNV-TASM-L840

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1431811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-42-UNV-TASM-L840
Description: Elevate Round Highbay at, 42000 lumens, 4000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

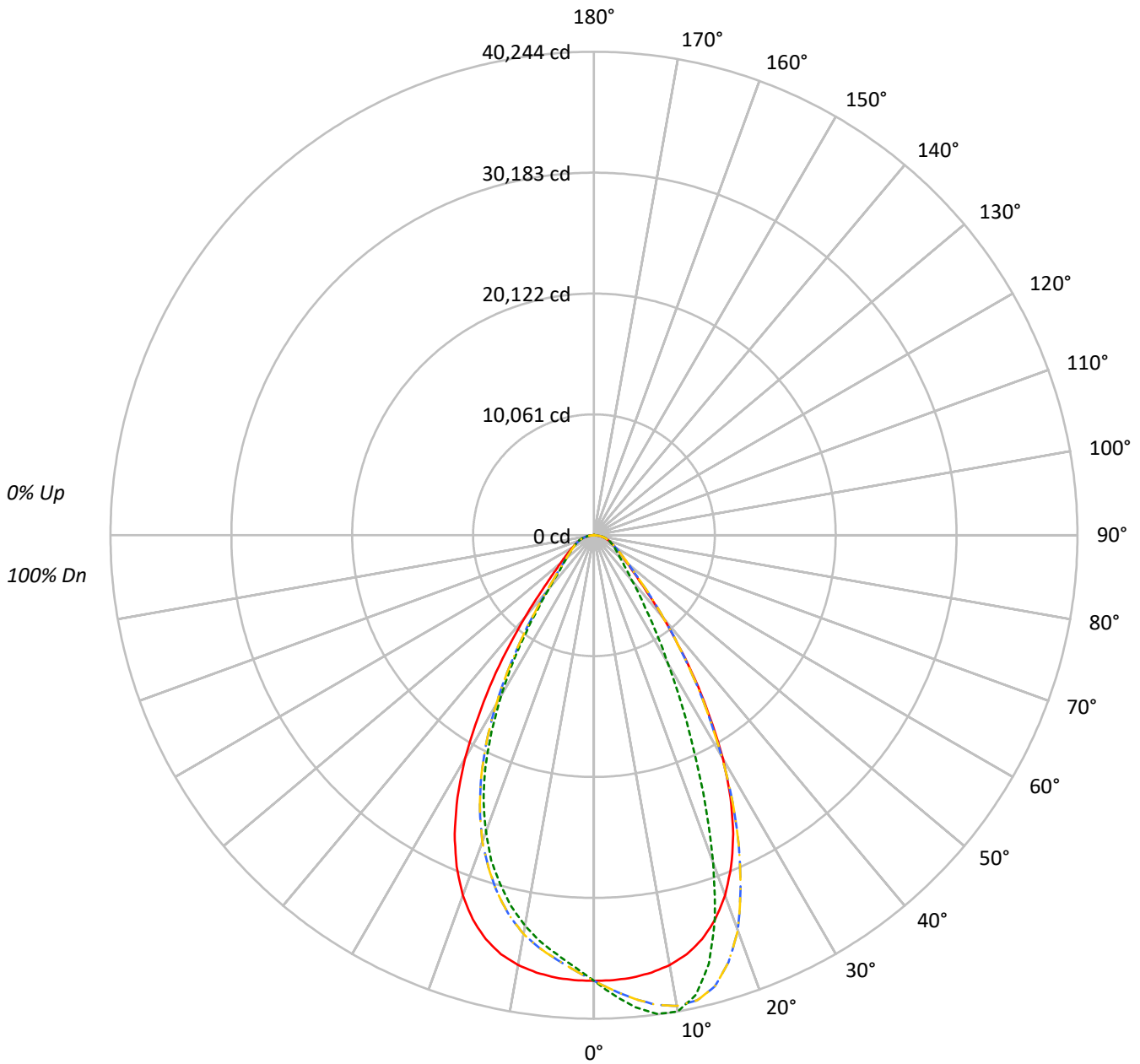
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41470.1 lumens
Efficiency: N/A
Efficacy: 184.8 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9
Luminous Opening: Circular (Dia: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 224.4
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

TEST NUMBER: P1431811
CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 92 | 92 | 92 | 90 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 83 | 83 | 83 | 81 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 76 | 76 | 76 | 76 | 74 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 69 | 69 | 69 | 67 |
| 5 | 87 | 78 | 71 | 66 | 86 | 77 | 70 | 65 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 64 | 64 | 64 | 64 | 62 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 59 | 59 | 59 | 57 |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 55 | 55 | 55 | 53 |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 51 | 51 | 51 | 49 |
| 9 | 70 | 59 | 53 | 48 | 69 | 59 | 52 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 56 | 51 | 47 | 47 | 47 | 47 | 46 |
| 10 | 66 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 45 | 45 | 45 | 45 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 174169 | 174169 | 174169 | 174169 |
| 5° | 174237 | 185879 | 174237 | 165195 |
| 10° | 173227 | 191905 | 173227 | 157372 |
| 15° | 169246 | 179542 | 169246 | 146349 |
| 20° | 159398 | 144978 | 159398 | 131271 |
| 25° | 142128 | 101195 | 142128 | 110827 |
| 30° | 116325 | 66361 | 116325 | 83584 |
| 35° | 84165 | 43354 | 84165 | 56132 |
| 40° | 54950 | 30176 | 54950 | 35748 |
| 45° | 35259 | 23638 | 35259 | 25759 |
| 50° | 26533 | 20354 | 26533 | 21741 |
| 55° | 22013 | 18842 | 22013 | 19502 |
| 60° | 19452 | 18316 | 19452 | 18427 |
| 65° | 18215 | 18145 | 18215 | 18068 |
| 70° | 17933 | 18467 | 17933 | 18229 |
| 75° | 17792 | 18954 | 17792 | 18386 |
| 80° | 17397 | 19918 | 17397 | 18620 |
| 85° | 14650 | 18514 | 14650 | 17652 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 49573 cd/sqm



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 3526.5 | 8.5 |
| 10°-20° | 9594.1 | 23.1 |
| 20°-30° | 11251.9 | 27.1 |
| 30°-40° | 7825.0 | 18.9 |
| 40°-50° | 3888.6 | 9.4 |
| 50°-60° | 2325.8 | 5.6 |
| 60°-70° | 1637.0 | 3.9 |
| 70°-80° | 1054.5 | 2.5 |
| 80°-90° | 334.9 | 0.8 |
| 90°-100° | 2.0 | 0.0 |
| 100°-110° | 2.3 | 0.0 |
| 110°-120° | 2.4 | 0.0 |
| 120°-130° | 3.0 | 0.0 |
| 130°-140° | 4.1 | 0.0 |
| 140°-150° | 4.9 | 0.0 |
| 150°-160° | 5.4 | 0.0 |
| 160°-170° | 5.3 | 0.0 |
| 170°-180° | 2.3 | 0.0 |
| 0°-30° | 24372.4 | 58.8 |
| 0°-40° | 32197.4 | 77.6 |
| 0°-60° | 38411.9 | 92.6 |
| 0°-90° | 41438.3 | 99.9 |
| 90°-120° | 6.7 | 0.0 |
| 90°-150° | 18.7 | 0.0 |
| 90°-180° | 32.0 | 0.1 |
| 0°-180° | 41470.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 37088 | 37088 | 37088 | 37088 | 37088 | |
| 5° | 36961 | 39431 | 36961 | 35043 | 36961 | 3508 |
| 15° | 34812 | 36929 | 34812 | 30102 | 34812 | 9729 |
| 25° | 27430 | 19530 | 27430 | 21389 | 27430 | 12418 |
| 35° | 14681 | 7562 | 14681 | 9791 | 14681 | 9165 |
| 45° | 5309 | 3559 | 5309 | 3879 | 5309 | 4344 |
| 55° | 2689 | 2301 | 2689 | 2382 | 2689 | 2459 |
| 65° | 1639 | 1633 | 1639 | 1626 | 1639 | 1646 |
| 75° | 981 | 1045 | 981 | 1013 | 981 | 1029 |
| 85° | 272 | 344 | 272 | 328 | 272 | 302 |
| 90° | 1 | 6 | 1 | 1 | 1 | 13 |
| 95° | 1 | 6 | 1 | 1 | 1 | 1 |
| 105° | 1 | 6 | 1 | 1 | 1 | 1 |
| 115° | 2 | 6 | 2 | 1 | 2 | 2 |
| 125° | 3 | 7 | 3 | 2 | 3 | 3 |
| 135° | 6 | 8 | 6 | 3 | 6 | 4 |
| 145° | 8 | 9 | 8 | 8 | 8 | 5 |
| 155° | 11 | 12 | 11 | 13 | 11 | 5 |
| 165° | 19 | 23 | 19 | 20 | 19 | 5 |
| 175° | 24 | 30 | 24 | 24 | 24 | 2 |
| 180° | 26 | 26 | 26 | 26 | 26 | |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 |
| 2.5° | 37066.4 | 37545.6 | 37933.6 | 38189.6 | 38316.1 | 38189.6 | 37933.6 | 37545.6 | 37066.4 | 36590.0 | 36262.5 |
| 5° | 36961.4 | 37921.1 | 38734.1 | 39266.1 | 39431.0 | 39266.1 | 38734.1 | 37921.1 | 36961.4 | 36054.5 | 35453.0 |
| 7.5° | 36710.3 | 38205.6 | 39413.6 | 40034.6 | 40186.2 | 40034.6 | 39413.6 | 38205.6 | 36710.3 | 35426.5 | 34666.4 |
| 10° | 36327.1 | 38385.0 | 39780.8 | 40225.9 | 40243.9 | 40225.9 | 39780.8 | 38385.0 | 36327.1 | 34597.5 | 33701.1 |
| 12.5° | 35715.8 | 38321.0 | 39657.7 | 39511.6 | 39179.9 | 39511.6 | 39657.7 | 38321.0 | 35715.8 | 33585.0 | 32454.1 |
| 15° | 34811.7 | 37942.0 | 38878.1 | 37689.5 | 36929.4 | 37689.5 | 38878.1 | 37942.0 | 34811.7 | 32217.7 | 30906.1 |
| 17.5° | 33537.7 | 37232.6 | 37250.7 | 34899.4 | 33465.3 | 34899.4 | 37250.7 | 37232.6 | 33537.7 | 30545.8 | 29101.4 |
| 20° | 31895.7 | 36094.9 | 35009.9 | 30709.2 | 29010.2 | 30709.2 | 35009.9 | 36094.9 | 31895.7 | 28569.3 | 27152.0 |
| 22.5° | 29837.1 | 34560.7 | 31889.4 | 26494.1 | 24176.1 | 26494.1 | 31889.4 | 34560.7 | 29837.1 | 26270.8 | 24795.8 |
| 25° | 27429.5 | 32680.9 | 28532.5 | 21901.3 | 19529.8 | 21901.3 | 28532.5 | 32680.9 | 27429.5 | 23532.1 | 22198.3 |
| 27.5° | 24597.6 | 30298.2 | 24957.8 | 17896.9 | 15709.0 | 17896.9 | 24957.8 | 30298.2 | 24597.6 | 20704.4 | 19342.0 |
| 30° | 21452.0 | 27243.8 | 21237.8 | 14252.7 | 12237.9 | 14252.7 | 21237.8 | 27243.8 | 21452.0 | 17527.6 | 16307.7 |
| 32.5° | 17930.2 | 24249.9 | 17665.3 | 11420.1 | 9713.4 | 11420.1 | 17665.3 | 24249.9 | 17930.2 | 14496.1 | 13221.3 |
| 35° | 14681.1 | 20504.1 | 14443.9 | 8973.5 | 7562.4 | 8973.5 | 14443.9 | 20504.1 | 14681.1 | 11634.3 | 10382.5 |
| 37.5° | 11521.6 | 16965.0 | 11514.0 | 7225.8 | 6133.9 | 7225.8 | 11514.0 | 16965.0 | 11521.6 | 9045.1 | 8029.0 |
| 40° | 8963.7 | 13265.1 | 9021.5 | 5768.1 | 4922.4 | 5768.1 | 9021.5 | 13265.1 | 8963.7 | 6882.2 | 6232.0 |
| 42.5° | 6791.8 | 10143.2 | 7090.9 | 4734.0 | 4181.1 | 4734.0 | 7090.9 | 10143.2 | 6791.8 | 5422.5 | 4935.7 |
| 45° | 5309.1 | 7464.3 | 5537.2 | 3994.0 | 3559.3 | 3994.0 | 5537.2 | 7464.3 | 5309.1 | 4366.8 | 4039.9 |
| 47.5° | 4323.6 | 5768.8 | 4487.8 | 3425.8 | 3121.2 | 3425.8 | 4487.8 | 5768.8 | 4323.6 | 3693.6 | 3448.8 |
| 50° | 3631.7 | 4426.6 | 3726.3 | 2990.5 | 2786.0 | 2990.5 | 3726.3 | 4426.6 | 3631.7 | 3162.9 | 2999.5 |
| 52.5° | 3119.8 | 3610.1 | 3173.4 | 2665.0 | 2527.3 | 2665.0 | 3173.4 | 3610.1 | 3119.8 | 2767.2 | 2665.7 |
| 55° | 2688.6 | 3035.0 | 2759.6 | 2396.5 | 2301.3 | 2396.5 | 2759.6 | 3035.0 | 2688.6 | 2462.6 | 2387.5 |
| 57.5° | 2361.1 | 2574.6 | 2396.5 | 2167.7 | 2104.4 | 2167.7 | 2396.5 | 2574.6 | 2361.1 | 2191.4 | 2151.0 |
| 60° | 2071.1 | 2229.6 | 2114.9 | 1968.1 | 1950.1 | 1968.1 | 2114.9 | 2229.6 | 2071.1 | 1971.6 | 1945.2 |
| 62.5° | 1847.8 | 1948.0 | 1870.1 | 1788.7 | 1772.7 | 1788.7 | 1870.1 | 1948.0 | 1847.8 | 1771.3 | 1776.2 |
| 65° | 1639.2 | 1732.4 | 1671.2 | 1627.4 | 1632.9 | 1627.4 | 1671.2 | 1732.4 | 1639.2 | 1603.7 | 1611.4 |
| 67.5° | 1477.8 | 1526.5 | 1500.1 | 1475.1 | 1481.3 | 1475.1 | 1500.1 | 1526.5 | 1477.8 | 1443.1 | 1454.9 |
| 70° | 1306.1 | 1358.2 | 1331.1 | 1334.6 | 1345.0 | 1334.6 | 1331.1 | 1358.2 | 1306.1 | 1295.6 | 1304.7 |
| 72.5° | 1141.9 | 1182.3 | 1173.2 | 1181.6 | 1192.7 | 1181.6 | 1173.2 | 1182.3 | 1141.9 | 1140.5 | 1141.2 |
| 75° | 980.6 | 1011.2 | 1015.4 | 1027.2 | 1044.6 | 1027.2 | 1015.4 | 1011.2 | 980.6 | 970.2 | 982.7 |
| 77.5° | 804.6 | 839.4 | 852.6 | 868.6 | 894.4 | 868.6 | 852.6 | 839.4 | 804.6 | 811.6 | 817.9 |
| 80° | 643.3 | 659.3 | 688.5 | 700.3 | 736.5 | 700.3 | 688.5 | 659.3 | 643.3 | 631.5 | 640.5 |
| 82.5° | 470.8 | 485.4 | 510.5 | 532.7 | 553.6 | 532.7 | 510.5 | 485.4 | 470.8 | 465.3 | 466.0 |
| 85° | 271.9 | 294.2 | 310.9 | 337.3 | 343.6 | 337.3 | 310.9 | 294.2 | 271.9 | 278.2 | 271.9 |
| 87.5° | 95.3 | 102.2 | 116.8 | 127.3 | 128.0 | 127.3 | 116.8 | 102.2 | 95.3 | 97.4 | 88.3 |
| 90° | 0.7 | 1.4 | 2.1 | 4.2 | 5.6 | 4.2 | 2.1 | 1.4 | 0.7 | 0.7 | 0.7 |
| 92.5° | 0.7 | 1.4 | 2.1 | 4.2 | 5.6 | 4.2 | 2.1 | 1.4 | 0.7 | 0.7 | 0.7 |
| 95° | 1.4 | 1.4 | 2.1 | 4.2 | 5.6 | 4.2 | 2.1 | 1.4 | 1.4 | 0.7 | 0.7 |
| 97.5° | 1.4 | 1.4 | 2.1 | 4.2 | 5.6 | 4.2 | 2.1 | 1.4 | 1.4 | 0.7 | 0.7 |
| 100° | 1.4 | 1.4 | 2.1 | 4.2 | 5.6 | 4.2 | 2.1 | 1.4 | 1.4 | 1.4 | 0.7 |
| 102.5° | 1.4 | 2.1 | 2.8 | 4.9 | 5.6 | 4.9 | 2.8 | 2.1 | 1.4 | 1.4 | 0.7 |
| 105° | 1.4 | 2.1 | 2.8 | 4.9 | 6.3 | 4.9 | 2.8 | 2.1 | 1.4 | 1.4 | 0.7 |
| 107.5° | 1.4 | 2.1 | 2.8 | 4.9 | 6.3 | 4.9 | 2.8 | 2.1 | 1.4 | 1.4 | 1.4 |
| 110° | 1.4 | 2.1 | 2.8 | 4.9 | 6.3 | 4.9 | 2.8 | 2.1 | 1.4 | 1.4 | 1.4 |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|------|-------|------|-------|------|--------|------|--------|------|--------|------|
| 112.5° | 1.4 | 2.1 | 2.8 | 4.9 | 6.3 | 4.9 | 2.8 | 2.1 | 1.4 | 1.4 | 1.4 |
| 115° | 2.1 | 2.1 | 2.8 | 4.9 | 6.3 | 4.9 | 2.8 | 2.1 | 2.1 | 1.4 | 1.4 |
| 117.5° | 2.1 | 2.1 | 2.8 | 4.9 | 6.3 | 4.9 | 2.8 | 2.1 | 2.1 | 2.1 | 1.4 |
| 120° | 2.1 | 2.1 | 3.5 | 4.9 | 6.3 | 4.9 | 3.5 | 2.1 | 2.1 | 2.1 | 1.4 |
| 122.5° | 2.8 | 2.8 | 3.5 | 5.6 | 6.3 | 5.6 | 3.5 | 2.8 | 2.8 | 2.8 | 2.1 |
| 125° | 2.8 | 2.8 | 4.2 | 5.6 | 7.0 | 5.6 | 4.2 | 2.8 | 2.8 | 3.5 | 2.8 |
| 127.5° | 3.5 | 3.5 | 4.2 | 5.6 | 7.0 | 5.6 | 4.2 | 3.5 | 3.5 | 3.5 | 2.8 |
| 130° | 4.2 | 3.5 | 4.2 | 6.3 | 7.0 | 6.3 | 4.2 | 3.5 | 4.2 | 4.2 | 3.5 |
| 132.5° | 4.9 | 4.2 | 4.9 | 7.0 | 7.7 | 7.0 | 4.9 | 4.2 | 4.9 | 5.6 | 4.9 |
| 135° | 5.6 | 4.2 | 5.6 | 6.3 | 7.7 | 6.3 | 5.6 | 4.2 | 5.6 | 6.3 | 4.9 |
| 137.5° | 6.3 | 4.9 | 5.6 | 7.0 | 7.7 | 7.0 | 5.6 | 4.9 | 6.3 | 7.0 | 6.3 |
| 140° | 7.0 | 5.6 | 5.6 | 7.0 | 8.3 | 7.0 | 5.6 | 5.6 | 7.0 | 7.0 | 7.0 |
| 142.5° | 7.7 | 6.3 | 6.3 | 7.7 | 8.3 | 7.7 | 6.3 | 6.3 | 7.7 | 7.7 | 7.7 |
| 145° | 8.3 | 7.7 | 7.0 | 7.7 | 9.0 | 7.7 | 7.0 | 7.7 | 8.3 | 7.7 | 8.3 |
| 147.5° | 8.3 | 7.7 | 7.7 | 8.3 | 9.7 | 8.3 | 7.7 | 7.7 | 8.3 | 8.3 | 9.0 |
| 150° | 9.0 | 9.0 | 8.3 | 9.0 | 10.4 | 9.0 | 8.3 | 9.0 | 9.0 | 9.0 | 9.7 |
| 152.5° | 9.7 | 9.7 | 9.7 | 10.4 | 11.1 | 10.4 | 9.7 | 9.7 | 9.7 | 9.7 | 10.4 |
| 155° | 11.1 | 11.1 | 11.1 | 11.8 | 12.5 | 11.8 | 11.1 | 11.1 | 11.1 | 10.4 | 11.8 |
| 157.5° | 12.5 | 13.2 | 13.2 | 13.9 | 14.6 | 13.9 | 13.2 | 13.2 | 12.5 | 12.5 | 13.2 |
| 160° | 15.3 | 15.3 | 16.0 | 16.7 | 17.4 | 16.7 | 16.0 | 15.3 | 15.3 | 14.6 | 15.3 |
| 162.5° | 16.7 | 16.7 | 18.1 | 18.8 | 20.2 | 18.8 | 18.1 | 16.7 | 16.7 | 16.7 | 16.7 |
| 165° | 18.8 | 18.8 | 20.2 | 21.6 | 23.0 | 21.6 | 20.2 | 18.8 | 18.8 | 18.1 | 18.1 |
| 167.5° | 20.2 | 20.2 | 21.6 | 23.6 | 25.0 | 23.6 | 21.6 | 20.2 | 20.2 | 19.5 | 19.5 |
| 170° | 20.9 | 21.6 | 23.0 | 25.0 | 26.4 | 25.0 | 23.0 | 21.6 | 20.9 | 20.9 | 20.2 |
| 172.5° | 23.0 | 23.0 | 25.0 | 27.1 | 28.5 | 27.1 | 25.0 | 23.0 | 23.0 | 22.3 | 22.3 |
| 175° | 24.3 | 25.0 | 26.4 | 28.5 | 29.9 | 28.5 | 26.4 | 25.0 | 24.3 | 23.6 | 23.6 |
| 177.5° | 24.3 | 25.7 | 27.1 | 29.2 | 30.6 | 29.2 | 27.1 | 25.7 | 24.3 | 23.6 | 23.6 |
| 180° | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|---------|---------|---------|---------|---------|---------|
| 0° | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 | 37088.0 |
| 2.5° | 36010.7 | 35987.1 | 36010.7 | 36262.5 | 36590.0 | 37066.4 |
| 5° | 35174.1 | 35043.3 | 35174.1 | 35453.0 | 36054.5 | 36961.4 |
| 7.5° | 34199.7 | 34123.9 | 34199.7 | 34666.4 | 35426.5 | 36710.3 |
| 10° | 33173.9 | 33002.2 | 33173.9 | 33701.1 | 34597.5 | 36327.1 |
| 12.5° | 31909.6 | 31682.2 | 31909.6 | 32454.1 | 33585.0 | 35715.8 |
| 15° | 30301.7 | 30102.1 | 30301.7 | 30906.1 | 32217.7 | 34811.7 |
| 17.5° | 28576.3 | 28395.5 | 28576.3 | 29101.4 | 30545.8 | 33537.7 |
| 20° | 26409.2 | 26267.4 | 26409.2 | 27152.0 | 28569.3 | 31895.7 |
| 22.5° | 24135.8 | 24003.0 | 24135.8 | 24795.8 | 26270.8 | 29837.1 |
| 25° | 21461.1 | 21388.7 | 21461.1 | 22198.3 | 23532.1 | 27429.5 |
| 27.5° | 18570.8 | 18447.7 | 18570.8 | 19342.0 | 20704.4 | 24597.6 |
| 30° | 15617.9 | 15414.1 | 15617.9 | 16307.7 | 17527.6 | 21452.0 |
| 32.5° | 12729.6 | 12582.9 | 12729.6 | 13221.3 | 14496.1 | 17930.2 |
| 35° | 9938.1 | 9791.3 | 9938.1 | 10382.5 | 11634.3 | 14681.1 |
| 37.5° | 7743.9 | 7484.5 | 7743.9 | 8029.0 | 9045.1 | 11521.6 |
| 40° | 5873.1 | 5831.4 | 5873.1 | 6232.0 | 6882.2 | 8963.7 |
| 42.5° | 4781.3 | 4667.9 | 4781.3 | 4935.7 | 5422.5 | 6791.8 |
| 45° | 3923.1 | 3878.6 | 3923.1 | 4039.9 | 4366.8 | 5309.1 |
| 47.5° | 3373.7 | 3393.1 | 3373.7 | 3448.8 | 3693.6 | 4323.6 |
| 50° | 2964.0 | 2975.9 | 2964.0 | 2999.5 | 3162.9 | 3631.7 |
| 52.5° | 2662.2 | 2651.8 | 2662.2 | 2665.7 | 2767.2 | 3119.8 |
| 55° | 2395.2 | 2381.9 | 2395.2 | 2387.5 | 2462.6 | 2688.6 |
| 57.5° | 2161.5 | 2171.2 | 2161.5 | 2151.0 | 2191.4 | 2361.1 |
| 60° | 1952.8 | 1961.9 | 1952.8 | 1945.2 | 1971.6 | 2071.1 |
| 62.5° | 1776.9 | 1782.5 | 1776.9 | 1776.2 | 1771.3 | 1847.8 |
| 65° | 1619.7 | 1626.0 | 1619.7 | 1611.4 | 1603.7 | 1639.2 |
| 67.5° | 1469.5 | 1469.5 | 1469.5 | 1454.9 | 1443.1 | 1477.8 |
| 70° | 1328.3 | 1327.6 | 1328.3 | 1304.7 | 1295.6 | 1306.1 |
| 72.5° | 1158.6 | 1175.3 | 1158.6 | 1141.2 | 1140.5 | 1141.9 |
| 75° | 993.8 | 1013.3 | 993.8 | 982.7 | 970.2 | 980.6 |
| 77.5° | 826.9 | 856.8 | 826.9 | 817.9 | 811.6 | 804.6 |
| 80° | 655.8 | 688.5 | 655.8 | 640.5 | 631.5 | 643.3 |
| 82.5° | 484.7 | 509.1 | 484.7 | 466.0 | 465.3 | 470.8 |
| 85° | 288.6 | 327.6 | 288.6 | 271.9 | 278.2 | 271.9 |
| 87.5° | 92.5 | 118.2 | 92.5 | 88.3 | 97.4 | 95.3 |
| 90° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 92.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 95° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 97.5° | 0.7 | 1.4 | 0.7 | 0.7 | 0.7 | 1.4 |
| 100° | 0.7 | 1.4 | 0.7 | 0.7 | 1.4 | 1.4 |
| 102.5° | 0.7 | 1.4 | 0.7 | 0.7 | 1.4 | 1.4 |
| 105° | 0.7 | 1.4 | 0.7 | 0.7 | 1.4 | 1.4 |
| 107.5° | 0.7 | 1.4 | 0.7 | 1.4 | 1.4 | 1.4 |
| 110° | 0.7 | 1.4 | 0.7 | 1.4 | 1.4 | 1.4 |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|------|--------|------|--------|------|
| 112.5° | 0.7 | 1.4 | 0.7 | 1.4 | 1.4 | 1.4 |
| 115° | 0.7 | 1.4 | 0.7 | 1.4 | 1.4 | 2.1 |
| 117.5° | 0.7 | 1.4 | 0.7 | 1.4 | 2.1 | 2.1 |
| 120° | 0.7 | 1.4 | 0.7 | 1.4 | 2.1 | 2.1 |
| 122.5° | 1.4 | 1.4 | 1.4 | 2.1 | 2.8 | 2.8 |
| 125° | 1.4 | 2.1 | 1.4 | 2.8 | 3.5 | 2.8 |
| 127.5° | 1.4 | 2.1 | 1.4 | 2.8 | 3.5 | 3.5 |
| 130° | 2.1 | 2.1 | 2.1 | 3.5 | 4.2 | 4.2 |
| 132.5° | 2.8 | 2.8 | 2.8 | 4.9 | 5.6 | 4.9 |
| 135° | 3.5 | 2.8 | 3.5 | 4.9 | 6.3 | 5.6 |
| 137.5° | 4.2 | 3.5 | 4.2 | 6.3 | 7.0 | 6.3 |
| 140° | 5.6 | 4.9 | 5.6 | 7.0 | 7.0 | 7.0 |
| 142.5° | 6.3 | 6.3 | 6.3 | 7.7 | 7.7 | 7.7 |
| 145° | 7.7 | 7.7 | 7.7 | 8.3 | 7.7 | 8.3 |
| 147.5° | 9.0 | 9.0 | 9.0 | 9.0 | 8.3 | 8.3 |
| 150° | 10.4 | 10.4 | 10.4 | 9.7 | 9.0 | 9.0 |
| 152.5° | 11.1 | 11.8 | 11.1 | 10.4 | 9.7 | 9.7 |
| 155° | 12.5 | 13.2 | 12.5 | 11.8 | 10.4 | 11.1 |
| 157.5° | 13.9 | 15.3 | 13.9 | 13.2 | 12.5 | 12.5 |
| 160° | 16.0 | 16.7 | 16.0 | 15.3 | 14.6 | 15.3 |
| 162.5° | 17.4 | 18.1 | 17.4 | 16.7 | 16.7 | 16.7 |
| 165° | 18.8 | 19.5 | 18.8 | 18.1 | 18.1 | 18.8 |
| 167.5° | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 20.2 |
| 170° | 20.2 | 20.9 | 20.2 | 20.2 | 20.9 | 20.9 |
| 172.5° | 21.6 | 22.3 | 21.6 | 22.3 | 22.3 | 23.0 |
| 175° | 23.0 | 23.6 | 23.0 | 23.6 | 23.6 | 24.3 |
| 177.5° | 23.6 | 24.3 | 23.6 | 23.6 | 23.6 | 24.3 |
| 180° | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840

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 | 19.58 | 20.79 | 19.95 | 21.10 | 21.42 | 18.90 | 20.10 | 19.26 | 20.42 | 20.74 |
| | 3H | 21.22 | 22.29 | 21.60 | 22.62 | 22.99 | 20.85 | 21.92 | 21.23 | 22.25 | 22.62 |
| | 4H | 21.92 | 22.92 | 22.33 | 23.28 | 23.66 | 21.71 | 22.71 | 22.11 | 23.06 | 23.45 |
| | 6H | 22.49 | 23.41 | 22.91 | 23.79 | 24.18 | 22.46 | 23.38 | 22.88 | 23.75 | 24.15 |
| | 8H | 22.70 | 23.57 | 23.13 | 23.96 | 24.37 | 22.75 | 23.62 | 23.18 | 24.01 | 24.42 |
| | 12H | 22.82 | 23.65 | 23.26 | 24.04 | 24.47 | 22.94 | 23.77 | 23.38 | 24.16 | 24.59 |
| 4H | 2H | 20.04 | 21.04 | 20.45 | 21.39 | 21.78 | 19.53 | 20.53 | 19.93 | 20.88 | 21.27 |
| | 3H | 21.95 | 22.78 | 22.37 | 23.18 | 23.59 | 21.70 | 22.53 | 22.12 | 22.94 | 23.34 |
| | 4H | 22.81 | 23.55 | 23.25 | 23.97 | 24.42 | 22.70 | 23.44 | 23.14 | 23.86 | 24.31 |
| | 6H | 23.53 | 24.17 | 24.00 | 24.62 | 25.09 | 23.60 | 24.23 | 24.06 | 24.68 | 25.15 |
| | 8H | 23.79 | 24.39 | 24.26 | 24.84 | 25.31 | 23.94 | 24.54 | 24.41 | 24.99 | 25.46 |
| | 12H | 23.96 | 24.48 | 24.45 | 24.97 | 25.45 | 24.19 | 24.72 | 24.68 | 25.20 | 25.68 |
| 8H | 4H | 23.12 | 23.71 | 23.59 | 24.16 | 24.64 | 23.04 | 23.64 | 23.51 | 24.09 | 24.56 |
| | 6H | 23.99 | 24.48 | 24.50 | 24.98 | 25.46 | 24.09 | 24.58 | 24.60 | 25.08 | 25.56 |
| | 8H | 24.34 | 24.78 | 24.87 | 25.30 | 25.79 | 24.54 | 24.97 | 25.07 | 25.49 | 25.99 |
| | 12H | 24.60 | 24.98 | 25.12 | 25.48 | 26.05 | 24.90 | 25.28 | 25.42 | 25.77 | 26.35 |
| 12H | 4H | 23.15 | 23.67 | 23.64 | 24.16 | 24.63 | 23.07 | 23.60 | 23.56 | 24.08 | 24.56 |
| | 6H | 24.06 | 24.50 | 24.59 | 25.01 | 25.51 | 24.17 | 24.60 | 24.69 | 25.12 | 25.61 |
| | 8H | 24.48 | 24.86 | 25.00 | 25.35 | 25.93 | 24.68 | 25.06 | 25.20 | 25.56 | 26.13 |