

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



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 COMMERCIAL

Report Number: P584021

Luminaire Tested: **HCC8S20D010SL-HM80520840-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010SL-HM80520840-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

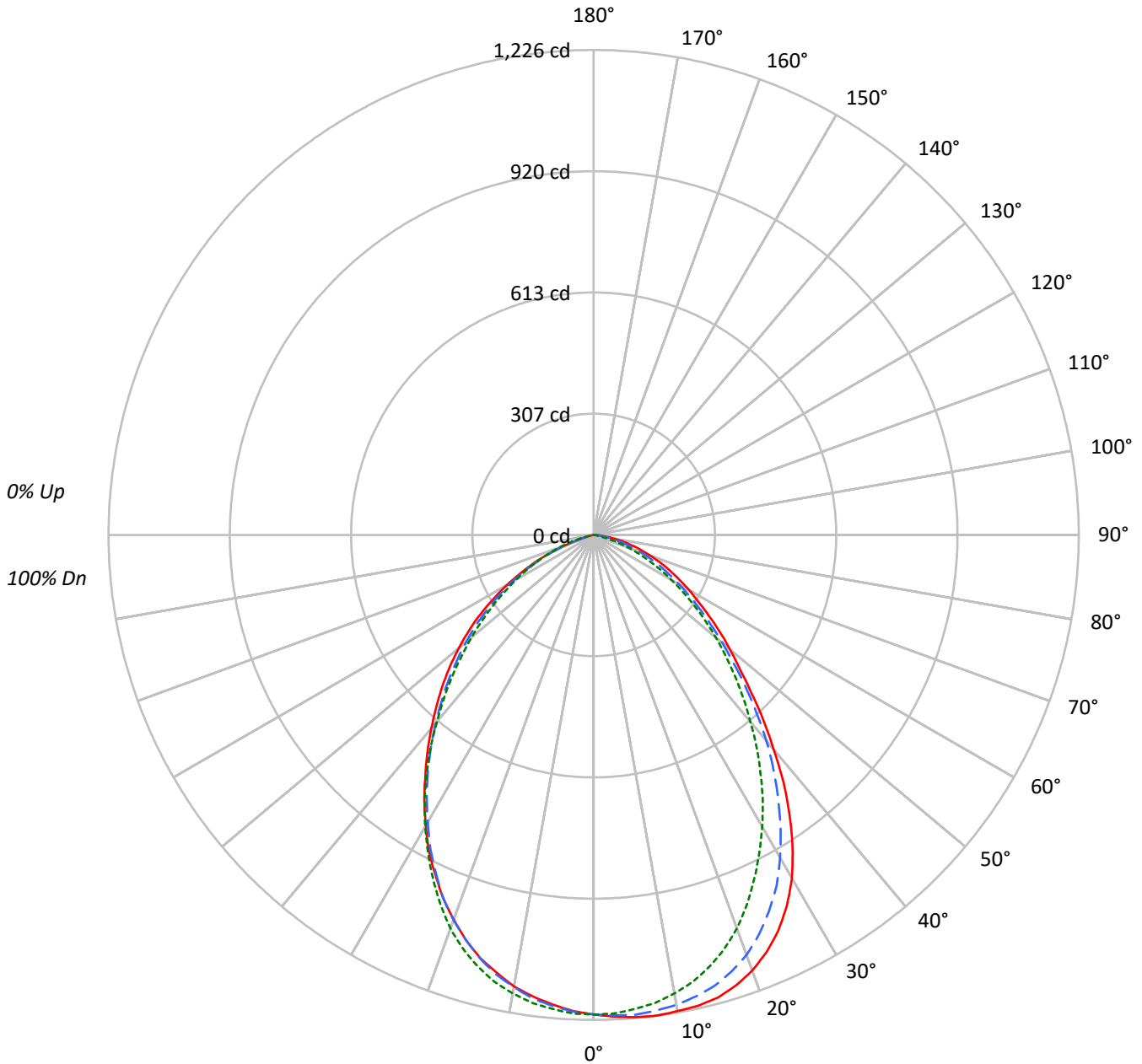
Lumens per Lamp: N/A
Luminaire Lumens: 2304.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P584021
CATALOG NUMBER: HCC8S20D010SL-HM80520840-81RWWC

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
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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 | 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 | | | | | 100 | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | | | 67 | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | 59 | | | |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 37389 | 37389 | 37389 |
| 5° | 37882 | 37232 | 36882 |
| 10° | 38273 | 36851 | 36294 |
| 15° | 38660 | 36074 | 35350 |
| 20° | 38463 | 34742 | 33947 |
| 25° | 37566 | 32663 | 32221 |
| 30° | 35681 | 30319 | 30205 |
| 35° | 32483 | 27668 | 27913 |
| 40° | 28476 | 24764 | 25674 |
| 45° | 24565 | 22027 | 23584 |
| 50° | 21516 | 19338 | 21353 |
| 55° | 19058 | 16623 | 18795 |
| 60° | 17176 | 13975 | 15579 |
| 65° | 15476 | 11222 | 11930 |
| 70° | 13578 | 8177 | 6564 |
| 75° | 11581 | 4241 | 1728 |
| 80° | 8914 | 1154 | 302 |
| 85° | 5732 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.4 | 5.0 |
| 10°-20° | 321.6 | 14.0 |
| 20°-30° | 456.5 | 19.8 |
| 30°-40° | 480.5 | 20.9 |
| 40°-50° | 408.8 | 17.7 |
| 50°-60° | 295.4 | 12.8 |
| 60°-70° | 168.0 | 7.3 |
| 70°-80° | 52.9 | 2.3 |
| 80°-90° | 6.4 | 0.3 |
| 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° | 892.5 | 38.7 |
| 0°-40° | 1373.0 | 59.6 |
| 0°-60° | 2077.1 | 90.1 |
| 0°-90° | 2304.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2304.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1212 | 1212 | 1212 | 1212 | 1212 | |
| 5° | 1224 | 1218 | 1203 | 1195 | 1192 | 117 |
| 15° | 1211 | 1180 | 1130 | 1109 | 1107 | 341 |
| 25° | 1104 | 1049 | 960 | 944 | 947 | 506 |
| 35° | 863 | 813 | 735 | 730 | 742 | 537 |
| 45° | 563 | 542 | 505 | 518 | 541 | 438 |
| 55° | 354 | 329 | 309 | 327 | 350 | 320 |
| 65° | 212 | 183 | 154 | 152 | 164 | 210 |
| 75° | 97 | 74 | 36 | 16 | 14 | 105 |
| 85° | 16 | 10 | 0 | 0 | 0 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 |
| 2.5° | 1219.0 | 1220.7 | 1217.5 | 1217.5 | 1220.7 | 1217.5 | 1219.0 | 1219.0 | 1217.5 | 1217.5 | 1215.8 |
| 5° | 1223.8 | 1222.3 | 1222.3 | 1222.3 | 1223.8 | 1220.7 | 1219.0 | 1220.7 | 1217.5 | 1217.5 | 1217.5 |
| 7.5° | 1225.5 | 1225.5 | 1223.8 | 1222.3 | 1222.3 | 1222.3 | 1220.7 | 1219.0 | 1217.5 | 1214.2 | 1212.5 |
| 10° | 1222.3 | 1222.3 | 1223.8 | 1220.7 | 1220.7 | 1217.5 | 1217.5 | 1214.2 | 1214.2 | 1211.0 | 1206.1 |
| 12.5° | 1219.0 | 1217.5 | 1217.5 | 1214.2 | 1214.2 | 1211.0 | 1211.0 | 1206.1 | 1204.5 | 1199.6 | 1194.8 |
| 15° | 1211.0 | 1209.3 | 1206.1 | 1204.5 | 1202.8 | 1201.3 | 1198.0 | 1196.3 | 1191.5 | 1185.1 | 1180.2 |
| 17.5° | 1194.8 | 1193.1 | 1191.5 | 1188.3 | 1185.1 | 1183.4 | 1181.8 | 1176.9 | 1170.4 | 1165.6 | 1157.5 |
| 20° | 1172.1 | 1170.4 | 1170.4 | 1165.6 | 1164.0 | 1159.1 | 1157.5 | 1151.0 | 1146.2 | 1136.5 | 1130.0 |
| 22.5° | 1141.3 | 1143.0 | 1139.7 | 1136.5 | 1133.2 | 1128.3 | 1125.1 | 1118.6 | 1110.6 | 1100.8 | 1092.8 |
| 25° | 1104.1 | 1105.6 | 1102.5 | 1099.3 | 1094.4 | 1091.1 | 1087.9 | 1078.2 | 1070.1 | 1058.7 | 1049.0 |
| 27.5° | 1057.2 | 1057.2 | 1057.2 | 1053.9 | 1045.8 | 1044.2 | 1041.0 | 1031.2 | 1019.9 | 1010.1 | 1000.4 |
| 30° | 1002.1 | 1000.4 | 1000.4 | 995.6 | 992.4 | 985.9 | 981.1 | 972.9 | 964.9 | 953.5 | 942.2 |
| 32.5° | 935.7 | 937.3 | 932.5 | 929.3 | 924.4 | 924.4 | 917.9 | 911.4 | 901.7 | 890.4 | 879.1 |
| 35° | 862.9 | 864.5 | 861.2 | 859.7 | 851.5 | 849.9 | 848.3 | 840.2 | 833.8 | 825.6 | 812.6 |
| 37.5° | 788.4 | 786.7 | 785.2 | 785.2 | 780.4 | 777.0 | 773.9 | 769.0 | 759.3 | 752.8 | 746.3 |
| 40° | 707.4 | 707.4 | 707.4 | 705.9 | 704.2 | 700.9 | 699.4 | 696.1 | 689.7 | 683.2 | 678.3 |
| 42.5° | 634.6 | 634.6 | 633.0 | 631.4 | 628.1 | 629.8 | 626.5 | 623.3 | 616.8 | 611.9 | 608.7 |
| 45° | 563.3 | 563.3 | 563.3 | 565.0 | 561.8 | 556.8 | 556.8 | 553.6 | 550.5 | 547.1 | 542.3 |
| 47.5° | 500.2 | 505.1 | 501.9 | 500.2 | 501.9 | 495.4 | 495.4 | 492.2 | 488.9 | 485.7 | 479.2 |
| 50° | 448.5 | 448.5 | 448.5 | 445.1 | 443.6 | 443.6 | 438.8 | 435.4 | 433.9 | 430.6 | 424.1 |
| 52.5° | 401.5 | 398.2 | 398.2 | 396.7 | 395.0 | 391.7 | 391.7 | 388.5 | 382.0 | 378.8 | 374.0 |
| 55° | 354.5 | 354.5 | 352.9 | 351.3 | 349.6 | 348.1 | 346.4 | 341.6 | 338.4 | 333.4 | 328.6 |
| 57.5° | 312.4 | 315.7 | 314.1 | 310.9 | 307.6 | 307.6 | 304.4 | 301.1 | 296.2 | 291.4 | 286.5 |
| 60° | 278.5 | 276.8 | 276.8 | 275.2 | 272.0 | 270.3 | 268.8 | 263.8 | 259.0 | 254.1 | 249.3 |
| 62.5° | 242.8 | 242.8 | 242.8 | 239.6 | 236.4 | 234.7 | 233.1 | 229.9 | 223.4 | 218.6 | 215.4 |
| 65° | 212.1 | 210.5 | 208.9 | 207.2 | 205.5 | 202.4 | 200.7 | 197.5 | 192.7 | 187.8 | 183.0 |
| 67.5° | 181.3 | 179.7 | 179.7 | 178.1 | 173.2 | 171.6 | 171.6 | 166.8 | 161.9 | 157.1 | 152.1 |
| 70° | 150.6 | 150.6 | 150.6 | 147.3 | 145.7 | 144.1 | 142.4 | 139.2 | 134.4 | 129.5 | 124.7 |
| 72.5° | 124.7 | 123.0 | 123.0 | 121.4 | 116.5 | 114.9 | 113.4 | 110.0 | 105.2 | 102.0 | 98.7 |
| 75° | 97.2 | 97.2 | 95.5 | 93.9 | 92.3 | 90.7 | 89.0 | 85.8 | 81.0 | 76.1 | 74.5 |
| 77.5° | 74.5 | 72.8 | 72.8 | 71.3 | 68.0 | 66.4 | 66.4 | 63.1 | 58.3 | 55.1 | 51.8 |
| 80° | 50.2 | 51.8 | 50.2 | 48.6 | 46.9 | 45.3 | 43.7 | 42.1 | 38.9 | 35.6 | 32.4 |
| 82.5° | 30.7 | 32.4 | 30.7 | 30.7 | 29.2 | 27.5 | 27.5 | 24.2 | 22.7 | 21.0 | 19.4 |
| 85° | 16.2 | 16.2 | 16.2 | 16.2 | 14.5 | 14.5 | 14.5 | 13.0 | 11.3 | 9.7 | 9.7 |
| 87.5° | 4.8 | 6.5 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 3.2 | 3.2 | 3.2 |
| 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 |
| 2.5° | 1217.5 | 1215.8 | 1214.2 | 1214.2 | 1214.2 | 1214.2 | 1214.2 | 1212.5 | 1211.0 | 1211.0 | 1211.0 |
| 5° | 1214.2 | 1214.2 | 1214.2 | 1212.5 | 1211.0 | 1211.0 | 1207.6 | 1206.1 | 1204.5 | 1202.8 | 1201.3 |
| 7.5° | 1211.0 | 1207.6 | 1206.1 | 1204.5 | 1202.8 | 1202.8 | 1199.6 | 1196.3 | 1196.3 | 1193.1 | 1189.9 |
| 10° | 1201.3 | 1199.6 | 1196.3 | 1193.1 | 1191.5 | 1189.9 | 1186.6 | 1181.8 | 1180.2 | 1176.9 | 1173.7 |
| 12.5° | 1189.9 | 1186.6 | 1183.4 | 1176.9 | 1175.3 | 1173.7 | 1167.2 | 1162.4 | 1159.1 | 1157.5 | 1149.4 |
| 15° | 1175.3 | 1168.9 | 1164.0 | 1155.9 | 1154.2 | 1151.0 | 1146.2 | 1141.3 | 1134.8 | 1130.0 | 1126.8 |
| 17.5° | 1149.4 | 1143.0 | 1134.8 | 1126.8 | 1123.5 | 1123.5 | 1115.5 | 1109.0 | 1100.8 | 1097.6 | 1091.1 |
| 20° | 1118.6 | 1110.6 | 1104.1 | 1094.4 | 1089.6 | 1084.6 | 1079.8 | 1070.1 | 1063.6 | 1058.7 | 1050.7 |
| 22.5° | 1083.1 | 1071.7 | 1063.6 | 1053.9 | 1045.8 | 1041.0 | 1032.8 | 1024.8 | 1016.6 | 1011.8 | 1005.3 |
| 25° | 1037.7 | 1028.0 | 1015.1 | 1005.3 | 1000.4 | 993.9 | 984.3 | 976.2 | 968.1 | 960.0 | 956.7 |
| 27.5° | 987.6 | 974.6 | 963.2 | 951.9 | 947.0 | 942.2 | 930.8 | 921.1 | 914.6 | 906.6 | 903.3 |
| 30° | 932.5 | 919.5 | 906.6 | 896.9 | 892.1 | 883.9 | 877.4 | 866.1 | 858.0 | 851.5 | 843.5 |
| 32.5° | 869.4 | 859.7 | 848.3 | 833.8 | 830.5 | 824.0 | 814.3 | 809.4 | 799.7 | 794.9 | 788.4 |
| 35° | 801.4 | 794.9 | 783.5 | 772.2 | 767.4 | 764.2 | 756.0 | 746.3 | 739.8 | 735.0 | 731.8 |
| 37.5° | 736.6 | 728.5 | 717.1 | 709.1 | 705.9 | 700.9 | 691.2 | 686.4 | 679.9 | 676.7 | 670.2 |
| 40° | 667.0 | 658.8 | 650.8 | 646.0 | 641.1 | 637.8 | 631.4 | 626.5 | 620.1 | 615.2 | 613.6 |
| 42.5° | 599.0 | 594.1 | 587.7 | 581.2 | 579.5 | 574.7 | 571.5 | 566.7 | 561.8 | 560.1 | 555.3 |
| 45° | 537.5 | 532.6 | 526.1 | 519.6 | 518.1 | 514.8 | 513.2 | 508.4 | 505.1 | 505.1 | 505.1 |
| 47.5° | 476.0 | 471.1 | 464.6 | 461.3 | 463.0 | 456.5 | 456.5 | 455.0 | 451.6 | 451.6 | 453.3 |
| 50° | 420.9 | 414.4 | 412.9 | 409.6 | 406.4 | 403.1 | 404.7 | 399.9 | 399.9 | 403.1 | 401.5 |
| 52.5° | 369.1 | 362.6 | 361.0 | 357.8 | 356.1 | 356.1 | 354.5 | 354.5 | 352.9 | 354.5 | 354.5 |
| 55° | 322.2 | 317.2 | 314.1 | 310.9 | 309.2 | 309.2 | 309.2 | 307.6 | 306.0 | 309.2 | 310.9 |
| 57.5° | 280.0 | 278.5 | 275.2 | 270.3 | 268.8 | 267.1 | 265.5 | 265.5 | 265.5 | 265.5 | 267.1 |
| 60° | 242.8 | 239.6 | 236.4 | 231.6 | 231.6 | 229.9 | 228.2 | 226.6 | 226.6 | 226.6 | 226.6 |
| 62.5° | 210.5 | 205.5 | 200.7 | 197.5 | 195.9 | 194.3 | 192.7 | 189.4 | 189.4 | 189.4 | 189.4 |
| 65° | 178.1 | 173.2 | 170.0 | 166.8 | 163.5 | 163.5 | 160.3 | 158.6 | 155.4 | 153.8 | 150.6 |
| 67.5° | 147.3 | 144.1 | 140.9 | 135.9 | 134.4 | 132.7 | 129.5 | 127.9 | 123.0 | 121.4 | 119.9 |
| 70° | 119.9 | 114.9 | 111.7 | 108.5 | 106.9 | 103.7 | 100.4 | 97.2 | 93.9 | 90.7 | 87.5 |
| 72.5° | 93.9 | 89.0 | 85.8 | 82.6 | 79.3 | 79.3 | 74.5 | 71.3 | 66.4 | 63.1 | 58.3 |
| 75° | 69.6 | 64.8 | 61.5 | 56.6 | 55.1 | 53.4 | 48.6 | 45.3 | 40.4 | 35.6 | 32.4 |
| 77.5° | 46.9 | 43.7 | 40.4 | 35.6 | 32.4 | 32.4 | 27.5 | 24.2 | 21.0 | 16.2 | 14.5 |
| 80° | 29.2 | 25.9 | 22.7 | 19.4 | 19.4 | 16.2 | 14.5 | 11.3 | 8.0 | 6.5 | 4.8 |
| 82.5° | 16.2 | 14.5 | 13.0 | 9.7 | 9.7 | 8.0 | 6.5 | 4.8 | 3.2 | 1.7 | 1.7 |
| 85° | 8.0 | 6.5 | 4.8 | 4.8 | 3.2 | 3.2 | 3.2 | 1.7 | 1.7 | 0.0 | 0.0 |
| 87.5° | 3.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 |
| 2.5° | 1209.3 | 1209.3 | 1207.6 | 1207.6 | 1207.6 | 1206.1 | 1207.6 | 1206.1 | 1206.1 | 1206.1 | 1207.6 |
| 5° | 1202.8 | 1199.6 | 1199.6 | 1198.0 | 1198.0 | 1196.3 | 1198.0 | 1196.3 | 1194.8 | 1193.1 | 1194.8 |
| 7.5° | 1189.9 | 1186.6 | 1185.1 | 1183.4 | 1183.4 | 1183.4 | 1181.8 | 1180.2 | 1181.8 | 1176.9 | 1180.2 |
| 10° | 1172.1 | 1170.4 | 1167.2 | 1165.6 | 1164.0 | 1165.6 | 1164.0 | 1160.7 | 1160.7 | 1160.7 | 1159.1 |
| 12.5° | 1149.4 | 1146.2 | 1144.5 | 1143.0 | 1139.7 | 1139.7 | 1141.3 | 1138.0 | 1138.0 | 1134.8 | 1134.8 |
| 15° | 1121.8 | 1118.6 | 1115.5 | 1115.5 | 1112.1 | 1112.1 | 1110.6 | 1110.6 | 1109.0 | 1107.3 | 1107.3 |
| 17.5° | 1087.9 | 1083.1 | 1079.8 | 1081.4 | 1079.8 | 1078.2 | 1078.2 | 1074.9 | 1073.4 | 1074.9 | 1074.9 |
| 20° | 1047.4 | 1044.2 | 1041.0 | 1042.5 | 1039.3 | 1037.7 | 1039.3 | 1034.5 | 1036.1 | 1036.1 | 1036.1 |
| 22.5° | 1002.1 | 1000.4 | 995.6 | 995.6 | 992.4 | 990.8 | 992.4 | 992.4 | 993.9 | 992.4 | 992.4 |
| 25° | 951.9 | 948.7 | 945.5 | 945.5 | 943.8 | 942.2 | 943.8 | 945.5 | 943.8 | 945.5 | 945.5 |
| 27.5° | 898.4 | 893.6 | 893.6 | 890.4 | 890.4 | 892.1 | 890.4 | 892.1 | 893.6 | 893.6 | 896.9 |
| 30° | 840.2 | 838.6 | 837.0 | 835.3 | 835.3 | 837.0 | 837.0 | 837.0 | 838.6 | 841.8 | 841.8 |
| 32.5° | 785.2 | 781.9 | 778.7 | 778.7 | 781.9 | 780.4 | 781.9 | 781.9 | 785.2 | 785.2 | 788.4 |
| 35° | 725.3 | 725.3 | 722.0 | 723.6 | 723.6 | 723.6 | 723.6 | 726.9 | 730.1 | 731.8 | 735.0 |
| 37.5° | 670.2 | 665.3 | 667.0 | 667.0 | 668.7 | 667.0 | 671.8 | 671.8 | 675.0 | 675.0 | 678.3 |
| 40° | 610.3 | 610.3 | 611.9 | 610.3 | 611.9 | 611.9 | 615.2 | 618.4 | 620.1 | 623.3 | 624.9 |
| 42.5° | 553.6 | 556.8 | 553.6 | 555.3 | 556.8 | 558.5 | 560.1 | 561.8 | 568.2 | 571.5 | 576.3 |
| 45° | 501.9 | 503.5 | 505.1 | 506.7 | 505.1 | 508.4 | 509.9 | 513.2 | 518.1 | 519.6 | 521.3 |
| 47.5° | 451.6 | 453.3 | 455.0 | 456.5 | 456.5 | 459.8 | 461.3 | 464.6 | 467.8 | 469.5 | 471.1 |
| 50° | 403.1 | 406.4 | 407.9 | 407.9 | 409.6 | 412.9 | 416.1 | 416.1 | 419.3 | 424.1 | 425.8 |
| 52.5° | 359.4 | 359.4 | 362.6 | 364.3 | 365.8 | 365.8 | 370.7 | 372.3 | 374.0 | 377.2 | 380.5 |
| 55° | 310.9 | 315.7 | 317.2 | 317.2 | 320.6 | 323.7 | 325.4 | 327.1 | 327.1 | 333.4 | 333.4 |
| 57.5° | 268.8 | 270.3 | 273.6 | 273.6 | 273.6 | 278.5 | 278.5 | 281.7 | 283.3 | 285.0 | 288.2 |
| 60° | 226.6 | 229.9 | 229.9 | 231.6 | 229.9 | 233.1 | 234.7 | 237.9 | 239.6 | 241.2 | 242.8 |
| 62.5° | 187.8 | 187.8 | 189.4 | 189.4 | 189.4 | 189.4 | 192.7 | 192.7 | 195.9 | 197.5 | 199.2 |
| 65° | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 | 150.6 | 152.1 | 152.1 | 155.4 |
| 67.5° | 116.5 | 114.9 | 111.7 | 113.4 | 111.7 | 111.7 | 110.0 | 110.0 | 111.7 | 111.7 | 114.9 |
| 70° | 84.2 | 82.6 | 79.3 | 79.3 | 77.7 | 76.1 | 74.5 | 72.8 | 71.3 | 71.3 | 71.3 |
| 72.5° | 55.1 | 51.8 | 46.9 | 45.3 | 45.3 | 42.1 | 38.9 | 37.2 | 37.2 | 37.2 | 37.2 |
| 75° | 27.5 | 24.2 | 21.0 | 19.4 | 19.4 | 16.2 | 17.8 | 16.2 | 16.2 | 16.2 | 16.2 |
| 77.5° | 11.3 | 8.0 | 6.5 | 6.5 | 6.5 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 80° | 3.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 82.5° | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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



TEST NUMBER: P584021

CATALOG NUMBER: HCC8S20D010SL-HM80520840-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 | 1212.5 |
| 2.5° | 1206.1 | 1206.1 | 1202.8 | 1204.5 | 1204.5 | 1204.5 | 1204.5 | 1204.5 |
| 5° | 1191.5 | 1193.1 | 1191.5 | 1193.1 | 1193.1 | 1191.5 | 1191.5 | 1191.5 |
| 7.5° | 1176.9 | 1178.6 | 1176.9 | 1178.6 | 1178.6 | 1178.6 | 1176.9 | 1176.9 |
| 10° | 1159.1 | 1159.1 | 1159.1 | 1159.1 | 1159.1 | 1157.5 | 1159.1 | 1159.1 |
| 12.5° | 1134.8 | 1134.8 | 1134.8 | 1136.5 | 1136.5 | 1134.8 | 1134.8 | 1133.2 |
| 15° | 1109.0 | 1105.6 | 1107.3 | 1109.0 | 1107.3 | 1107.3 | 1107.3 | 1107.3 |
| 17.5° | 1073.4 | 1074.9 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1074.9 | 1073.4 |
| 20° | 1036.1 | 1036.1 | 1037.7 | 1036.1 | 1036.1 | 1036.1 | 1036.1 | 1034.5 |
| 22.5° | 993.9 | 992.4 | 992.4 | 993.9 | 993.9 | 992.4 | 993.9 | 993.9 |
| 25° | 947.0 | 948.7 | 947.0 | 947.0 | 948.7 | 948.7 | 948.7 | 947.0 |
| 27.5° | 896.9 | 898.4 | 900.1 | 898.4 | 898.4 | 898.4 | 900.1 | 901.7 |
| 30° | 845.0 | 848.3 | 845.0 | 845.0 | 848.3 | 846.7 | 848.3 | 848.3 |
| 32.5° | 790.0 | 794.9 | 791.6 | 794.9 | 794.9 | 796.5 | 794.9 | 796.5 |
| 35° | 735.0 | 739.8 | 739.8 | 739.8 | 741.5 | 743.1 | 743.1 | 741.5 |
| 37.5° | 683.2 | 684.7 | 684.7 | 688.0 | 689.7 | 691.2 | 691.2 | 689.7 |
| 40° | 629.8 | 633.0 | 634.6 | 634.6 | 634.6 | 637.8 | 641.1 | 637.8 |
| 42.5° | 578.0 | 579.5 | 581.2 | 581.2 | 584.4 | 586.0 | 587.7 | 587.7 |
| 45° | 527.8 | 531.0 | 532.6 | 534.3 | 535.8 | 539.1 | 537.5 | 540.8 |
| 47.5° | 476.0 | 480.8 | 482.4 | 484.0 | 487.3 | 488.9 | 490.5 | 492.2 |
| 50° | 428.9 | 432.3 | 432.3 | 435.4 | 440.3 | 440.3 | 443.6 | 445.1 |
| 52.5° | 382.0 | 383.7 | 385.3 | 386.9 | 390.2 | 393.4 | 393.4 | 396.7 |
| 55° | 336.8 | 338.4 | 338.4 | 339.9 | 341.6 | 348.1 | 349.6 | 349.6 |
| 57.5° | 289.8 | 289.8 | 293.0 | 294.7 | 296.2 | 299.5 | 299.5 | 299.5 |
| 60° | 244.4 | 246.1 | 246.1 | 247.7 | 249.3 | 252.6 | 254.1 | 252.6 |
| 62.5° | 199.2 | 200.7 | 200.7 | 202.4 | 205.5 | 207.2 | 205.5 | 205.5 |
| 65° | 157.1 | 158.6 | 158.6 | 160.3 | 163.5 | 163.5 | 161.9 | 163.5 |
| 67.5° | 114.9 | 114.9 | 114.9 | 114.9 | 114.9 | 114.9 | 114.9 | 114.9 |
| 70° | 72.8 | 71.3 | 69.6 | 71.3 | 71.3 | 71.3 | 69.6 | 72.8 |
| 72.5° | 35.6 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 35.6 |
| 75° | 16.2 | 16.2 | 14.5 | 14.5 | 14.5 | 16.2 | 16.2 | 14.5 |
| 77.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report



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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)