

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P25723

Luminaire Tested: **TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P25723  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C  
Description: FAILSAFE TERRAPIN 15" DIAMETER WALL MOUNT LUMINAIRE OPAL  
REFLECTOR WITH SPECULAR SEGMENTED REFLECTOR INTERNAL RADIAL  
RIBBED LENS WITH EYELID FACE COVER  
Light Source: (112) NICHIA 4000K LEDS  
1FS402256M8404-0  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER  
OT40W/PRG1250C/UNV/DIM/L

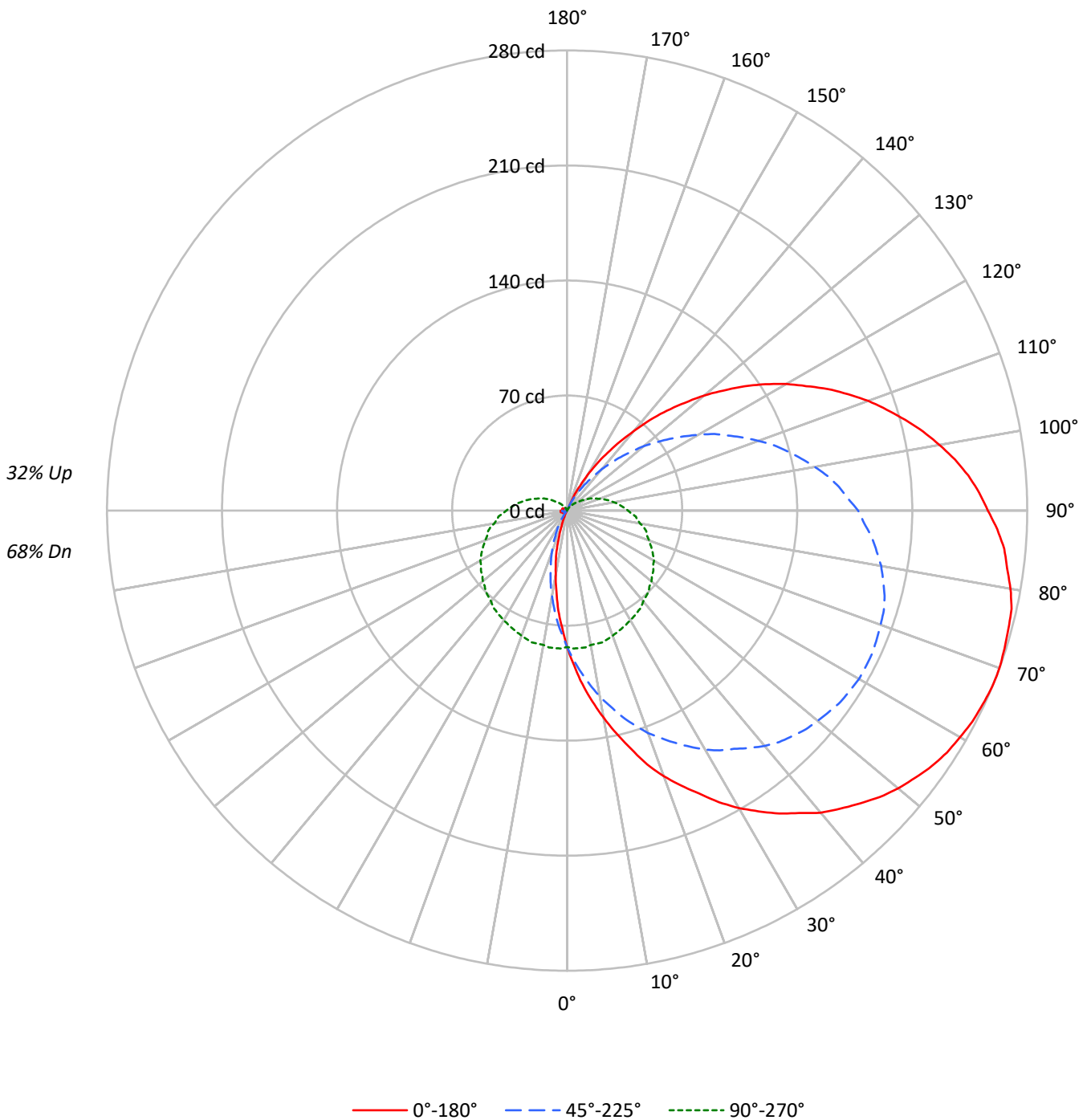
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 875.6 lumens  
Efficiency: N/A  
Efficacy: 20.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 1.39 / 1.94  
Luminous Opening: Circular (Dia: 1.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 43.1  
Input Voltage (V): 120.06  
Input Current (Ain): 0.36026  
Voltage Rise (V): NR  
Power Factor: 0.9985  
Total Harmonic Distortion (THDi): 7.11%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 14 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P25723

CATALOG NUMBER: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C

### Luminous Intensity Polar Plot





TEST NUMBER: P25723

CATALOG NUMBER: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C

**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   | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 73 | 73 | 73 | 68 |
| 1   | 96  | 89  | 83  | 78  | 90  | 84  | 78  | 73  | 74 | 69 | 65 | 64 | 61 | 58 | 56 | 53 | 50 | 46 |
| 2   | 85  | 75  | 66  | 59  | 80  | 70  | 62  | 56  | 61 | 55 | 50 | 53 | 48 | 44 | 46 | 42 | 38 | 34 |
| 3   | 77  | 64  | 54  | 47  | 71  | 60  | 51  | 44  | 52 | 45 | 39 | 45 | 39 | 35 | 39 | 34 | 30 | 26 |
| 4   | 69  | 56  | 46  | 38  | 64  | 52  | 43  | 36  | 45 | 38 | 32 | 39 | 33 | 28 | 34 | 29 | 24 | 21 |
| 5   | 63  | 49  | 39  | 32  | 59  | 46  | 37  | 30  | 40 | 32 | 27 | 35 | 28 | 23 | 30 | 25 | 20 | 17 |
| 6   | 58  | 43  | 34  | 27  | 54  | 41  | 32  | 25  | 36 | 28 | 23 | 31 | 25 | 20 | 27 | 21 | 17 | 14 |
| 7   | 53  | 39  | 30  | 23  | 50  | 37  | 28  | 22  | 32 | 25 | 19 | 28 | 22 | 17 | 24 | 19 | 15 | 12 |
| 8   | 49  | 35  | 26  | 20  | 46  | 33  | 25  | 19  | 29 | 22 | 17 | 25 | 19 | 15 | 22 | 17 | 13 | 11 |
| 9   | 46  | 32  | 23  | 18  | 43  | 30  | 22  | 17  | 27 | 20 | 15 | 23 | 17 | 13 | 20 | 15 | 12 | 9  |
| 10  | 43  | 29  | 21  | 16  | 40  | 28  | 20  | 15  | 24 | 18 | 13 | 21 | 16 | 12 | 19 | 14 | 10 | 8  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°  | 180° |
|-----|-------|------|------|
| 0°  | 728   | 728  | 728  |
| 5°  | 933   | 740  | 537  |
| 10° | 1140  | 739  | 356  |
| 15° | 1362  | 754  | 218  |
| 20° | 1605  | 756  | 93   |
| 25° | 1839  | 765  | 29   |
| 30° | 2117  | 780  | 10   |
| 35° | 2409  | 803  | 11   |
| 40° | 2748  | 824  | 11   |
| 45° | 3126  | 868  | 25   |
| 50° | 3589  | 914  | 27   |
| 55° | 4144  | 979  | 31   |
| 60° | 4842  | 1070 | 53   |
| 65° | 5791  | 1183 | 62   |
| 70° | 7181  | 1359 | 77   |
| 75° | 9421  | 1694 | 136  |
| 80° | 13840 | 2273 | 202  |
| 85° | 26870 | 4227 | 403  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.0    | 0.9       |
| 10°-20°   | 24.0   | 2.7       |
| 20°-30°   | 40.5   | 4.6       |
| 30°-40°   | 58.3   | 6.7       |
| 40°-50°   | 75.8   | 8.7       |
| 50°-60°   | 90.3   | 10.3      |
| 60°-70°   | 99.8   | 11.4      |
| 70°-80°   | 102.9  | 11.8      |
| 80°-90°   | 98.8   | 11.3      |
| 90°-100°  | 88.1   | 10.1      |
| 100°-110° | 72.3   | 8.3       |
| 110°-120° | 53.6   | 6.1       |
| 120°-130° | 35.1   | 4.0       |
| 130°-140° | 19.1   | 2.2       |
| 140°-150° | 7.6    | 0.9       |
| 150°-160° | 1.4    | 0.2       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 72.5   | 8.3       |
| 0°-40°    | 130.8  | 14.9      |
| 0°-60°    | 297.0  | 33.9      |
| 0°-90°    | 598.5  | 68.3      |
| 90°-120°  | 214.0  | 24.4      |
| 90°-150°  | 275.7  | 31.5      |
| 90°-180°  | 277.0  | 31.6      |
| 0°-180°   | 875.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 45° | 90° | 135° | 180° | Flux |
|------|-----|-----|-----|------|------|------|
| 0°   | 83  | 83  | 83  | 83   | 83   |      |
| 5°   | 106 | 99  | 84  | 68   | 61   | 11   |
| 15°  | 150 | 130 | 83  | 39   | 24   | 43   |
| 25°  | 190 | 156 | 79  | 17   | 3    | 89   |
| 35°  | 225 | 177 | 75  | 4    | 1    | 141  |
| 45°  | 252 | 194 | 70  | 1    | 2    | 195  |
| 55°  | 271 | 203 | 64  | 2    | 2    | 243  |
| 65°  | 279 | 205 | 57  | 2    | 3    | 277  |
| 75°  | 278 | 200 | 50  | 2    | 4    | 294  |
| 85°  | 267 | 186 | 42  | 3    | 4    | 219  |
| 90°  | 256 | 177 | 37  | 3    | 4    | 140  |
| 95°  | 245 | 166 | 33  | 3    | 3    | 197  |
| 105° | 213 | 139 | 25  | 2    | 3    | 225  |
| 115° | 175 | 108 | 17  | 2    | 3    | 174  |
| 125° | 132 | 76  | 11  | 2    | 2    | 118  |
| 135° | 86  | 46  | 6   | 1    | 2    | 67   |
| 145° | 43  | 21  | 3   | 1    | 1    | 28   |
| 155° | 11  | 5   | 1   | 1    | 1    | 5    |
| 165° | 0   | 0   | 0   | 0    | 0    | 0    |
| 175° | 0   | 0   | 0   | 0    | 0    | 0    |
| 180° | 0   | 0   | 0   | 0    | 0    | 0    |



TEST NUMBER: P25723

CATALOG NUMBER: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C

**CANDELA DISTRIBUTION (FULL):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°     | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  |
| 2.5°   | 94  | 93  | 93  | 92  | 92  | 91  | 90  | 88  | 87  | 85  | 84  |
| 5°     | 106 | 105 | 105 | 103 | 102 | 99  | 97  | 94  | 90  | 86  | 84  |
| 7.5°   | 117 | 116 | 115 | 114 | 111 | 107 | 103 | 98  | 93  | 87  | 84  |
| 10°    | 128 | 127 | 126 | 124 | 120 | 115 | 109 | 102 | 95  | 87  | 83  |
| 12.5°  | 139 | 138 | 137 | 133 | 129 | 122 | 115 | 107 | 97  | 88  | 83  |
| 15°    | 150 | 150 | 148 | 144 | 138 | 130 | 121 | 111 | 100 | 88  | 83  |
| 17.5°  | 162 | 161 | 159 | 154 | 147 | 137 | 127 | 115 | 102 | 89  | 82  |
| 20°    | 172 | 171 | 168 | 162 | 155 | 144 | 131 | 118 | 103 | 88  | 81  |
| 22.5°  | 181 | 180 | 177 | 171 | 162 | 150 | 136 | 121 | 105 | 88  | 80  |
| 25°    | 190 | 190 | 186 | 179 | 169 | 156 | 141 | 124 | 106 | 88  | 79  |
| 27.5°  | 200 | 199 | 195 | 188 | 177 | 162 | 145 | 127 | 107 | 88  | 78  |
| 30°    | 209 | 208 | 204 | 195 | 183 | 168 | 149 | 129 | 108 | 87  | 77  |
| 32.5°  | 217 | 216 | 212 | 203 | 189 | 173 | 153 | 131 | 109 | 87  | 76  |
| 35°    | 225 | 224 | 219 | 209 | 195 | 177 | 157 | 133 | 110 | 86  | 75  |
| 37.5°  | 232 | 232 | 227 | 216 | 201 | 182 | 160 | 135 | 110 | 85  | 74  |
| 40°    | 240 | 239 | 234 | 223 | 207 | 187 | 163 | 137 | 111 | 85  | 72  |
| 42.5°  | 246 | 245 | 240 | 228 | 212 | 191 | 166 | 138 | 111 | 84  | 71  |
| 45°    | 252 | 251 | 246 | 234 | 216 | 194 | 168 | 139 | 111 | 83  | 70  |
| 47.5°  | 258 | 257 | 251 | 238 | 220 | 197 | 170 | 140 | 110 | 82  | 68  |
| 50°    | 263 | 263 | 256 | 243 | 223 | 199 | 171 | 141 | 110 | 81  | 67  |
| 52.5°  | 267 | 266 | 259 | 246 | 226 | 201 | 172 | 141 | 109 | 79  | 65  |
| 55°    | 271 | 270 | 263 | 249 | 229 | 203 | 173 | 140 | 108 | 78  | 64  |
| 57.5°  | 274 | 273 | 266 | 252 | 231 | 204 | 173 | 140 | 107 | 76  | 62  |
| 60°    | 276 | 275 | 268 | 253 | 232 | 205 | 173 | 139 | 106 | 75  | 61  |
| 62.5°  | 278 | 277 | 270 | 255 | 233 | 205 | 173 | 138 | 104 | 73  | 59  |
| 65°    | 279 | 278 | 271 | 256 | 233 | 205 | 172 | 137 | 103 | 71  | 57  |
| 67.5°  | 280 | 279 | 271 | 256 | 233 | 204 | 171 | 136 | 101 | 69  | 55  |
| 70°    | 280 | 279 | 271 | 255 | 233 | 203 | 169 | 134 | 99  | 67  | 53  |
| 72.5°  | 279 | 278 | 270 | 255 | 231 | 202 | 167 | 131 | 97  | 65  | 51  |
| 75°    | 278 | 277 | 269 | 253 | 229 | 200 | 165 | 129 | 94  | 63  | 50  |
| 77.5°  | 277 | 275 | 267 | 251 | 227 | 197 | 162 | 126 | 92  | 61  | 48  |
| 80°    | 274 | 273 | 264 | 248 | 224 | 194 | 159 | 123 | 89  | 59  | 45  |
| 82.5°  | 270 | 269 | 261 | 244 | 220 | 190 | 155 | 120 | 86  | 56  | 43  |
| 85°    | 267 | 265 | 257 | 240 | 216 | 186 | 152 | 116 | 83  | 54  | 42  |
| 87.5°  | 262 | 260 | 252 | 236 | 211 | 181 | 147 | 112 | 80  | 51  | 39  |
| 90°    | 256 | 255 | 247 | 231 | 206 | 177 | 143 | 108 | 76  | 49  | 37  |
| 92.5°  | 251 | 249 | 241 | 225 | 201 | 171 | 138 | 104 | 73  | 46  | 35  |
| 95°    | 245 | 243 | 235 | 219 | 195 | 166 | 133 | 100 | 70  | 44  | 33  |
| 97.5°  | 238 | 236 | 228 | 212 | 189 | 160 | 127 | 95  | 66  | 41  | 31  |
| 100°   | 230 | 229 | 221 | 205 | 182 | 153 | 121 | 90  | 62  | 39  | 29  |
| 102.5° | 222 | 221 | 213 | 197 | 174 | 146 | 115 | 86  | 59  | 36  | 27  |
| 105°   | 213 | 212 | 204 | 189 | 167 | 139 | 109 | 81  | 55  | 34  | 25  |
| 107.5° | 204 | 203 | 196 | 181 | 158 | 132 | 103 | 75  | 51  | 31  | 23  |
| 110°   | 195 | 194 | 186 | 172 | 150 | 124 | 96  | 71  | 47  | 29  | 21  |



TEST NUMBER: P25723

CATALOG NUMBER: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 185 | 184 | 176 | 162 | 141 | 116 | 90  | 65  | 44  | 26  | 19  |
| 115°   | 175 | 174 | 166 | 153 | 132 | 108 | 83  | 60  | 40  | 24  | 17  |
| 117.5° | 164 | 163 | 156 | 143 | 123 | 101 | 77  | 55  | 36  | 21  | 16  |
| 120°   | 154 | 152 | 145 | 132 | 114 | 92  | 70  | 50  | 33  | 19  | 14  |
| 122.5° | 143 | 142 | 136 | 122 | 105 | 84  | 63  | 45  | 30  | 17  | 12  |
| 125°   | 132 | 130 | 124 | 112 | 95  | 76  | 57  | 41  | 26  | 15  | 11  |
| 127.5° | 120 | 119 | 113 | 102 | 86  | 68  | 51  | 36  | 23  | 13  | 9   |
| 130°   | 109 | 107 | 102 | 91  | 77  | 61  | 45  | 31  | 20  | 11  | 8   |
| 132.5° | 97  | 96  | 92  | 81  | 68  | 53  | 39  | 27  | 17  | 10  | 7   |
| 135°   | 86  | 85  | 81  | 72  | 59  | 46  | 34  | 23  | 15  | 8   | 6   |
| 137.5° | 75  | 74  | 70  | 61  | 50  | 39  | 29  | 20  | 12  | 7   | 5   |
| 140°   | 63  | 63  | 59  | 52  | 42  | 33  | 24  | 16  | 10  | 6   | 4   |
| 142.5° | 53  | 53  | 49  | 43  | 34  | 26  | 19  | 13  | 8   | 4   | 3   |
| 145°   | 43  | 42  | 40  | 34  | 27  | 21  | 15  | 10  | 6   | 4   | 3   |
| 147.5° | 34  | 33  | 31  | 27  | 21  | 16  | 12  | 8   | 5   | 3   | 2   |
| 150°   | 25  | 24  | 23  | 19  | 15  | 12  | 9   | 6   | 4   | 2   | 2   |
| 152.5° | 17  | 17  | 15  | 13  | 11  | 8   | 6   | 4   | 3   | 2   | 1   |
| 155°   | 11  | 10  | 9   | 8   | 7   | 5   | 4   | 3   | 2   | 1   | 1   |
| 157.5° | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 160°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 162.5° | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 165°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 167.5° | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 170°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 172.5° | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 175°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 177.5° | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 180°   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |



TEST NUMBER: P25723

CATALOG NUMBER: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C

**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 0°     | 83  | 83   | 83   | 83   | 83   | 83   | 83   | 83   | 83   | 83   |
| 2.5°   | 83  | 81   | 79   | 77   | 75   | 73   | 73   | 71   | 71   | 71   |
| 5°     | 82  | 78   | 74   | 71   | 68   | 65   | 63   | 61   | 61   | 61   |
| 7.5°   | 81  | 75   | 69   | 64   | 60   | 56   | 53   | 51   | 50   | 50   |
| 10°    | 80  | 72   | 64   | 58   | 53   | 48   | 44   | 42   | 41   | 40   |
| 12.5°  | 78  | 69   | 60   | 52   | 46   | 40   | 36   | 33   | 32   | 32   |
| 15°    | 77  | 66   | 55   | 46   | 39   | 33   | 28   | 25   | 23   | 24   |
| 17.5°  | 76  | 63   | 51   | 42   | 33   | 26   | 21   | 18   | 16   | 16   |
| 20°    | 74  | 60   | 47   | 36   | 27   | 20   | 15   | 12   | 10   | 10   |
| 22.5°  | 72  | 57   | 43   | 32   | 22   | 15   | 10   | 7    | 6    | 6    |
| 25°    | 71  | 54   | 39   | 27   | 17   | 10   | 6    | 4    | 2    | 3    |
| 27.5°  | 69  | 52   | 36   | 23   | 13   | 7    | 3    | 1    | 1    | 1    |
| 30°    | 67  | 49   | 33   | 19   | 10   | 4    | 1    | 1    | 1    | 1    |
| 32.5°  | 66  | 46   | 30   | 16   | 7    | 2    | 1    | 1    | 1    | 1    |
| 35°    | 64  | 44   | 27   | 13   | 4    | 1    | 1    | 1    | 1    | 1    |
| 37.5°  | 63  | 42   | 24   | 10   | 3    | 1    | 1    | 1    | 1    | 1    |
| 40°    | 61  | 40   | 22   | 8    | 1    | 1    | 1    | 1    | 1    | 1    |
| 42.5°  | 60  | 38   | 19   | 6    | 1    | 1    | 1    | 1    | 2    | 2    |
| 45°    | 58  | 36   | 17   | 5    | 1    | 1    | 1    | 1    | 1    | 2    |
| 47.5°  | 56  | 34   | 15   | 3    | 1    | 1    | 1    | 2    | 2    | 2    |
| 50°    | 54  | 32   | 13   | 2    | 1    | 1    | 2    | 2    | 2    | 2    |
| 52.5°  | 53  | 30   | 12   | 2    | 1    | 2    | 2    | 2    | 2    | 2    |
| 55°    | 51  | 28   | 10   | 1    | 2    | 2    | 2    | 2    | 2    | 2    |
| 57.5°  | 50  | 27   | 9    | 2    | 2    | 2    | 2    | 2    | 3    | 3    |
| 60°    | 48  | 25   | 8    | 2    | 2    | 2    | 2    | 3    | 3    | 3    |
| 62.5°  | 46  | 24   | 7    | 2    | 2    | 2    | 2    | 2    | 3    | 3    |
| 65°    | 45  | 22   | 6    | 2    | 2    | 2    | 2    | 3    | 3    | 3    |
| 67.5°  | 43  | 21   | 5    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| 70°    | 41  | 20   | 5    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| 72.5°  | 39  | 18   | 4    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| 75°    | 38  | 17   | 4    | 2    | 2    | 3    | 3    | 3    | 3    | 4    |
| 77.5°  | 36  | 16   | 4    | 2    | 2    | 3    | 3    | 3    | 4    | 4    |
| 80°    | 34  | 15   | 3    | 2    | 3    | 3    | 3    | 3    | 4    | 4    |
| 82.5°  | 33  | 14   | 3    | 2    | 3    | 3    | 3    | 3    | 4    | 4    |
| 85°    | 31  | 13   | 3    | 2    | 3    | 3    | 3    | 3    | 4    | 4    |
| 87.5°  | 29  | 12   | 3    | 2    | 3    | 3    | 3    | 3    | 4    | 4    |
| 90°    | 27  | 11   | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    |
| 92.5°  | 26  | 10   | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    |
| 95°    | 24  | 10   | 2    | 2    | 3    | 3    | 3    | 3    | 3    | 3    |
| 97.5°  | 23  | 9    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    |
| 100°   | 21  | 8    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| 102.5° | 19  | 7    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| 105°   | 18  | 7    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| 107.5° | 16  | 6    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 3    |
| 110°   | 15  | 6    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 3    |





TEST NUMBER: P25723

CATALOG NUMBER: TRE15-W-LD4-40W-OPL-BZ-UNV-ED1C

**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 14  | 5    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 115°   | 12  | 5    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 3    |
| 117.5° | 11  | 4    | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 3    |
| 120°   | 10  | 4    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 122.5° | 9   | 3    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 125°   | 8   | 3    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 127.5° | 6   | 3    | 1    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 130°   | 6   | 2    | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 2    |
| 132.5° | 5   | 2    | 2    | 1    | 2    | 2    | 2    | 2    | 2    | 2    |
| 135°   | 4   | 2    | 2    | 1    | 1    | 2    | 1    | 1    | 2    | 2    |
| 137.5° | 3   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 140°   | 3   | 2    | 1    | 1    | 1    | 2    | 1    | 2    | 1    | 1    |
| 142.5° | 2   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 145°   | 2   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 147.5° | 2   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 150°   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 152.5° | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 155°   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 157.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 160°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 162.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 165°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 167.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 170°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 172.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 175°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 177.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 180°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)