

REPORT NUMBER: ITL74030

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ISSUE DATE: 08/24/12

PREPARED FOR: LIGHTING PRODUCTS

CATALOG NUMBER: WLEM-LED

LUMINAIRE: MOLDED GRAY PLASTIC HOUSING, TWO MOLDED GRAY PLASTIC SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY CONSISTS OF: ONE CIRCUIT BOARD WITH 15 LEDs, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND ONE APERTURE PER LED, CLEAR RECTANGULAR PRISMATIC PLASTIC DROP LENS. LENS PRISMS IN AND PARALLEL WITH THE 0-DEGREE PLANE. ONLY ONE HEAD ASSEMBLY ENERGIZED FOR THIS TEST.

LAMPS: FIFTEEN WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 0.621 AT 9.6 VOLTS DC

MOUNTING: SURFACE

LED DRIVER: LIGHTING PRODUCTS

PROPRIETARY

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT CLIENT REQUESTED INPUT VOLTAGE (9.6VDC) TO THE LED DRIVER. LED DRIVER INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET



| CANDELA DISTRIBUTION | | | | | | FLUX |
|----------------------|-----|------|------|------|------|------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | |
| 0 | 166 | 166 | 166 | 166 | 166 | |
| 5 | 140 | 146 | 164 | 183 | 191 | 15.2 |
| 15 | 32 | 38 | 56 | 105 | 123 | 19.6 |
| 25 | 16 | 17 | 15 | 16 | 18 | 7.8 |
| 35 | 7 | 7 | 9 | 8 | 10 | 5.2 |
| 45 | 2 | 3 | 3 | 4 | 5 | 2.8 |
| 55 | 1 | 1 | 1 | 2 | 2 | 1.3 |
| 65 | 0 | 0 | 1 | 1 | 1 | 0.6 |
| 75 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| 90 | 0 | 0 | 0 | 0 | 0 | |

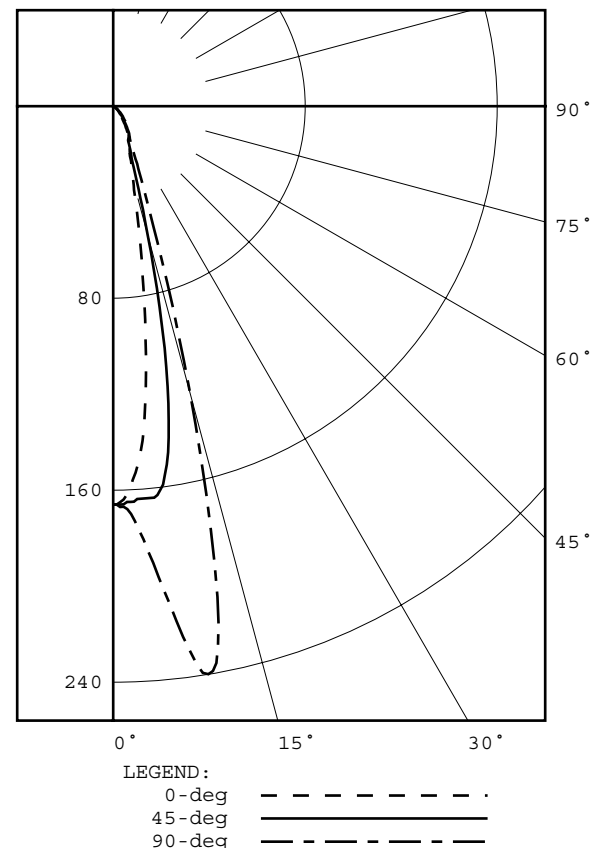
| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|-------|
| ZONE | LUMENS | %FIXT |
| 0- 30 | 42.6 | 81.3 |
| 0- 40 | 47.8 | 91.2 |
| 0- 60 | 51.9 | 99.0 |
| 0- 90 | 52.4 | 100.0 |
| 90-180 | 0.0 | 0.0 |
| 0-180 | 52.4 | 100.0 |

EFFICACY = 84.4 lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 0.31 0.58



Checked*S.BERGIN*.....
Approved*R.BEATTIE*.....
Lighting Engineer



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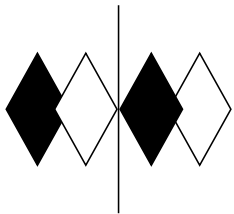
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CANDELA DISTRIBUTION
LATERAL ANGLE

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|------|-----|------|------|------|------|
| 0.0 | 166 | 166 | 166 | 166 | 166 |
| 0.5 | 166 | 166 | 166 | 166 | 166 |
| 1.0 | 165 | 165 | 166 | 167 | 167 |
| 1.5 | 164 | 164 | 166 | 167 | 167 |
| 2.0 | 162 | 163 | 165 | 168 | 168 |
| 2.5 | 160 | 161 | 165 | 169 | 170 |
| 3.0 | 156 | 159 | 165 | 171 | 173 |
| 3.5 | 153 | 156 | 164 | 173 | 177 |
| 4.0 | 149 | 153 | 164 | 176 | 181 |
| 4.5 | 145 | 150 | 164 | 180 | 186 |
| 5.0 | 140 | 146 | 164 | 183 | 191 |
| 5.5 | 134 | 142 | 164 | 187 | 197 |
| 6.0 | 127 | 136 | 164 | 192 | 203 |
| 6.5 | 120 | 130 | 163 | 196 | 209 |
| 7.0 | 112 | 124 | 161 | 200 | 216 |
| 7.5 | 105 | 117 | 159 | 204 | 223 |
| 8.0 | 97 | 110 | 155 | 208 | 229 |
| 8.5 | 90 | 103 | 151 | 210 | 235 |
| 9.0 | 83 | 96 | 146 | 211 | 239 |
| 9.5 | 76 | 90 | 140 | 211 | 240 |
| 10.0 | 70 | 83 | 133 | 209 | 239 |
| 10.5 | 65 | 77 | 126 | 206 | 236 |
| 11.0 | 60 | 71 | 119 | 202 | 229 |
| 11.5 | 55 | 66 | 111 | 195 | 220 |
| 12.0 | 51 | 61 | 103 | 185 | 209 |
| 12.5 | 46 | 56 | 94 | 173 | 195 |
| 13.0 | 43 | 52 | 86 | 160 | 181 |
| 13.5 | 39 | 48 | 78 | 145 | 166 |
| 14.0 | 36 | 44 | 70 | 131 | 151 |
| 14.5 | 34 | 41 | 63 | 117 | 137 |
| 15.0 | 32 | 38 | 56 | 105 | 123 |
| 15.5 | 30 | 35 | 50 | 93 | 110 |
| 16.0 | 29 | 33 | 45 | 82 | 98 |
| 16.5 | 27 | 31 | 40 | 72 | 88 |
| 17.0 | 26 | 29 | 36 | 64 | 77 |
| 17.5 | 25 | 27 | 32 | 57 | 68 |
| 18.0 | 24 | 26 | 29 | 50 | 60 |
| 18.5 | 22 | 24 | 27 | 45 | 53 |
| 19.0 | 21 | 23 | 25 | 40 | 47 |
| 19.5 | 21 | 22 | 23 | 36 | 43 |
| 20.0 | 20 | 21 | 22 | 33 | 39 |
| 22.5 | 18 | 18 | 17 | 22 | 26 |
| 25.0 | 16 | 17 | 15 | 16 | 18 |
| 27.5 | 14 | 14 | 14 | 12 | 15 |
| 30.0 | 11 | 12 | 13 | 10 | 13 |
| 32.5 | 9 | 9 | 11 | 9 | 12 |
| 35.0 | 7 | 7 | 9 | 8 | 10 |
| 37.5 | 6 | 6 | 7 | 7 | 9 |
| 40.0 | 5 | 5 | 6 | 6 | 7 |
| 42.5 | 4 | 4 | 4 | 5 | 6 |
| 45.0 | 2 | 3 | 3 | 4 | 5 |
| 47.5 | 2 | 2 | 3 | 3 | 4 |
| 50.0 | 1 | 2 | 2 | 3 | 3 |
| 52.5 | 1 | 1 | 2 | 2 | 2 |
| 55.0 | 1 | 1 | 1 | 2 | 2 |
| 57.5 | 1 | 1 | 1 | 1 | 1 |
| 60.0 | 1 | 1 | 1 | 1 | 1 |
| 62.5 | 1 | 1 | 1 | 1 | 1 |
| 65.0 | 0 | 0 | 1 | 1 | 1 |
| 67.5 | 0 | 0 | 0 | 0 | 1 |
| 70.0 | 0 | 0 | 0 | 0 | 0 |
| 72.5 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 0 | 0 |
| 77.5 | 0 | 0 | 0 | 0 | 0 |



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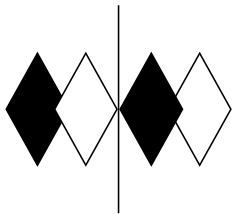
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CANDELA DISTRIBUTION
LATERAL ANGLE

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|------|-----|------|------|------|------|
| 80.0 | 0 | 0 | 0 | 0 | 0 |
| 82.5 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 0 | 0 | 0 | 0 | 0 |
| 87.5 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |



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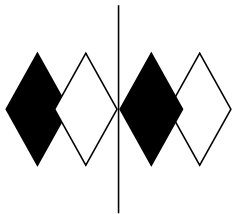
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5-DEGREE
ZONAL LUMEN SUMMARY

| | |
|--------|------|
| 0- 5 | 3.9 |
| 5- 10 | 11.3 |
| 10- 15 | 12.7 |
| 15- 20 | 6.9 |
| 20- 25 | 4.3 |
| 25- 30 | 3.5 |
| 30- 35 | 2.9 |
| 35- 40 | 2.3 |
| 40- 45 | 1.7 |
| 45- 50 | 1.1 |
| 50- 55 | 0.7 |
| 55- 60 | 0.5 |
| 60- 65 | 0.4 |
| 65- 70 | 0.1 |
| 70- 75 | 0.0 |
| 75- 80 | 0.0 |
| 80- 85 | 0.0 |
| 85- 90 | 0.0 |

10-DEGREE
ZONAL LUMEN SUMMARY

| | |
|-------|------|
| 0- 10 | 15.2 |
| 0- 20 | 34.9 |
| 0- 30 | 42.6 |
| 0- 40 | 47.8 |
| 0- 50 | 50.6 |
| 0- 60 | 51.9 |
| 0- 70 | 52.4 |
| 0- 80 | 52.4 |
| 0- 90 | 52.4 |



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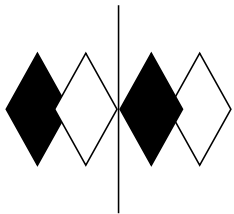
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

| 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 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 93 | 92 | 90 |
| 3 | 105 | 100 | 96 | 92 | 103 | 98 | 95 | 91 | 96 | 93 | 90 | 94 | 91 | 89 | 91 | 89 | 87 | 86 |
| 4 | 101 | 95 | 90 | 87 | 99 | 94 | 89 | 86 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 82 |
| 5 | 97 | 90 | 85 | 82 | 96 | 89 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 79 | 78 |
| 6 | 94 | 86 | 81 | 78 | 92 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 |
| 7 | 90 | 83 | 78 | 74 | 89 | 82 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 72 |
| 8 | 87 | 80 | 75 | 71 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 69 |
| 9 | 85 | 77 | 72 | 69 | 84 | 76 | 72 | 69 | 75 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 67 |
| 10 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 72 | 68 | 66 | 65 |

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.



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