



IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR7-LED-10L-PC-LV-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9376
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/17/17
[TEST DATE]11/17/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]CBR7-LED-10L-PC-LV-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[TEMP0][OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

| | |
|---|----------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 489 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 28 |
| Total Luminaire Watts | 17.3 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.01 |
| Maximum Candela | 273 |
| Maximum Candela Angle | 0H 47.5V |
| Maximum Candela (<90 Degrees Vertical) | 273 |
| Maximum Candela Angle (<90 Degrees Vertical) | 0H 47.5V |
| Maximum Candela At 90 Degrees Vertical | 5 (1.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 10 (2.0% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 2.2 | N.A. | 0.4 |
| FM - Front-Medium (30-60) | 205.8 | N.A. | 42.1 |
| FH - Front-High (60-80) | 29.3 | N.A. | 6.0 |
| FVH - Front-Very High (80-90) | 3.4 | N.A. | 0.7 |
| BL - Back-Low (0-30) | 2.2 | N.A. | 0.4 |
| BM - Back-Medium (30-60) | 205.8 | N.A. | 42.1 |
| BH - Back-High (60-80) | 29.3 | N.A. | 6.0 |
| BVH - Back-Very High (80-90) | 3.4 | N.A. | 0.7 |
| UL - Uplight-Low (90-100) | 3.5 | N.A. | 0.7 |
| UH - Uplight-High (100-180) | 3.7 | N.A. | 0.8 |
| Total | 488.6 | N.A. | 100.0 |
| BUG Rating | B0-U1-G0 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
| 0.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 2.5 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 6 | 7 |
| 5.0 | 14 | 10 | 8 | 5 | 3 | 4 | 10 | 6 | 6 | 4 |
| 7.5 | 1 | 3 | 3 | 3 | 9 | 7 | 5 | 5 | 9 | 8 |
| 10.0 | 1 | 3 | 1 | 2 | 3 | 9 | 5 | 8 | 6 | 9 |
| 12.5 | 2 | 1 | 2 | 1 | 5 | 4 | 6 | 6 | 7 | 5 |
| 15.0 | 2 | 2 | 2 | 2 | 6 | 8 | 6 | 9 | 4 | 6 |
| 17.5 | 2 | 2 | 2 | 2 | 2 | 3 | 8 | 7 | 3 | 4 |
| 20.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 6 | 5 |
| 22.5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| 25.0 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 27.5 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| 30.0 | 12 | 12 | 10 | 17 | 17 | 17 | 19 | 22 | 30 | 29 |
| 32.5 | 45 | 43 | 41 | 41 | 50 | 65 | 56 | 56 | 56 | 65 |
| 35.0 | 84 | 102 | 118 | 111 | 114 | 101 | 111 | 117 | 112 | 112 |
| 37.5 | 205 | 188 | 168 | 171 | 158 | 168 | 167 | 165 | 157 | 164 |
| 40.0 | 197 | 210 | 218 | 216 | 218 | 198 | 198 | 217 | 216 | 205 |
| 42.5 | 252 | 256 | 249 | 251 | 236 | 237 | 238 | 237 | 225 | 217 |
| 45.0 | 242 | 252 | 268 | 252 | 269 | 256 | 252 | 265 | 261 | 258 |
| 47.5 | 273 | 265 | 263 | 261 | 265 | 255 | 259 | 256 | 236 | 255 |
| 50.0 | 243 | 245 | 235 | 238 | 217 | 238 | 235 | 225 | 230 | 239 |
| 52.5 | 190 | 197 | 222 | 213 | 214 | 202 | 200 | 202 | 210 | 199 |
| 55.0 | 180 | 173 | 166 | 167 | 162 | 173 | 161 | 177 | 169 | 162 |
| 57.5 | 131 | 132 | 130 | 129 | 128 | 135 | 129 | 132 | 131 | 133 |
| 60.0 | 99 | 103 | 108 | 108 | 105 | 97 | 107 | 97 | 105 | 103 |
| 62.5 | 69 | 66 | 67 | 64 | 64 | 63 | 62 | 67 | 57 | 64 |
| 65.0 | 37 | 37 | 35 | 39 | 34 | 37 | 37 | 38 | 34 | 37 |
| 67.5 | 23 | 25 | 25 | 25 | 25 | 23 | 26 | 24 | 22 | 24 |
| 70.0 | 17 | 17 | 17 | 17 | 17 | 17 | 18 | 17 | 17 | 16 |
| 72.5 | 16 | 15 | 15 | 14 | 14 | 14 | 15 | 15 | 14 | 14 |
| 75.0 | 13 | 13 | 12 | 12 | 12 | 12 | 13 | 13 | 12 | 12 |
| 77.5 | 11 | 11 | 11 | 10 | 11 | 11 | 11 | 11 | 11 | 11 |
| 80.0 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 82.5 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 7 | 7 | 7 |
| 85.0 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 |
| 87.5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |
| 90.0 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 92.5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 95.0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 97.5 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 100.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 102.5 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 |
| 105.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 107.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 110.0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 112.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 115.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 117.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 120.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 122.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 125.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 127.5 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 130.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|
| 132.5 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 135.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 137.5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 142.5 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 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 |
| 165.0 | 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 | 0 |
| 172.5 | 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 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles

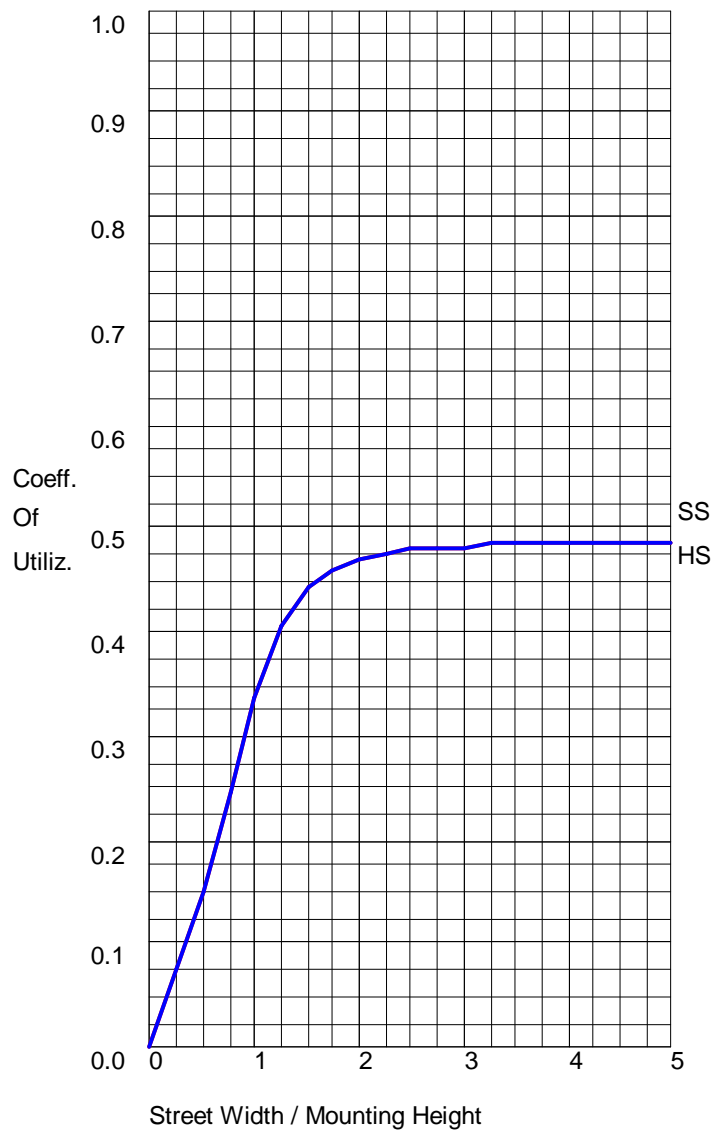
| | |
|------|-----------|
| | <u>90</u> |
| 0.0 | 5 |
| 2.5 | 8 |
| 5.0 | 4 |
| 7.5 | 5 |
| 10.0 | 9 |
| 12.5 | 2 |
| 15.0 | 3 |
| 17.5 | 9 |
| 20.0 | 6 |
| 22.5 | 3 |
| 25.0 | 3 |
| 27.5 | 6 |
| 30.0 | 28 |
| 32.5 | 62 |
| 35.0 | 110 |
| 37.5 | 162 |
| 40.0 | 203 |
| 42.5 | 218 |
| 45.0 | 248 |
| 47.5 | 259 |
| 50.0 | 234 |
| 52.5 | 211 |
| 55.0 | 149 |
| 57.5 | 117 |
| 60.0 | 104 |
| 62.5 | 66 |
| 65.0 | 31 |
| 67.5 | 21 |
| 70.0 | 16 |
| 72.5 | 14 |
| 75.0 | 12 |
| 77.5 | 10 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|---|
| 80.0 | 9 |
| 82.5 | 7 |
| 85.0 | 6 |
| 87.5 | 5 |
| 90.0 | 4 |
| 92.5 | 4 |
| 95.0 | 3 |
| 97.5 | 3 |
| 100.0 | 2 |
| 102.5 | 2 |
| 105.0 | 1 |
| 107.5 | 1 |
| 110.0 | 0 |
| 112.5 | 1 |
| 115.0 | 1 |
| 117.5 | 1 |
| 120.0 | 0 |
| 122.5 | 1 |
| 125.0 | 1 |
| 127.5 | 1 |
| 130.0 | 1 |
| 132.5 | 0 |
| 135.0 | 1 |
| 137.5 | 0 |
| 140.0 | 0 |
| 142.5 | 0 |
| 145.0 | 0 |
| 147.5 | 0 |
| 150.0 | 0 |
| 152.5 | 0 |
| 155.0 | 0 |
| 157.5 | 0 |
| 160.0 | 0 |
| 162.5 | 0 |
| 165.0 | 0 |
| 167.5 | 0 |
| 170.0 | 0 |
| 172.5 | 0 |
| 175.0 | 0 |
| 177.5 | 0 |
| 180.0 | 0 |

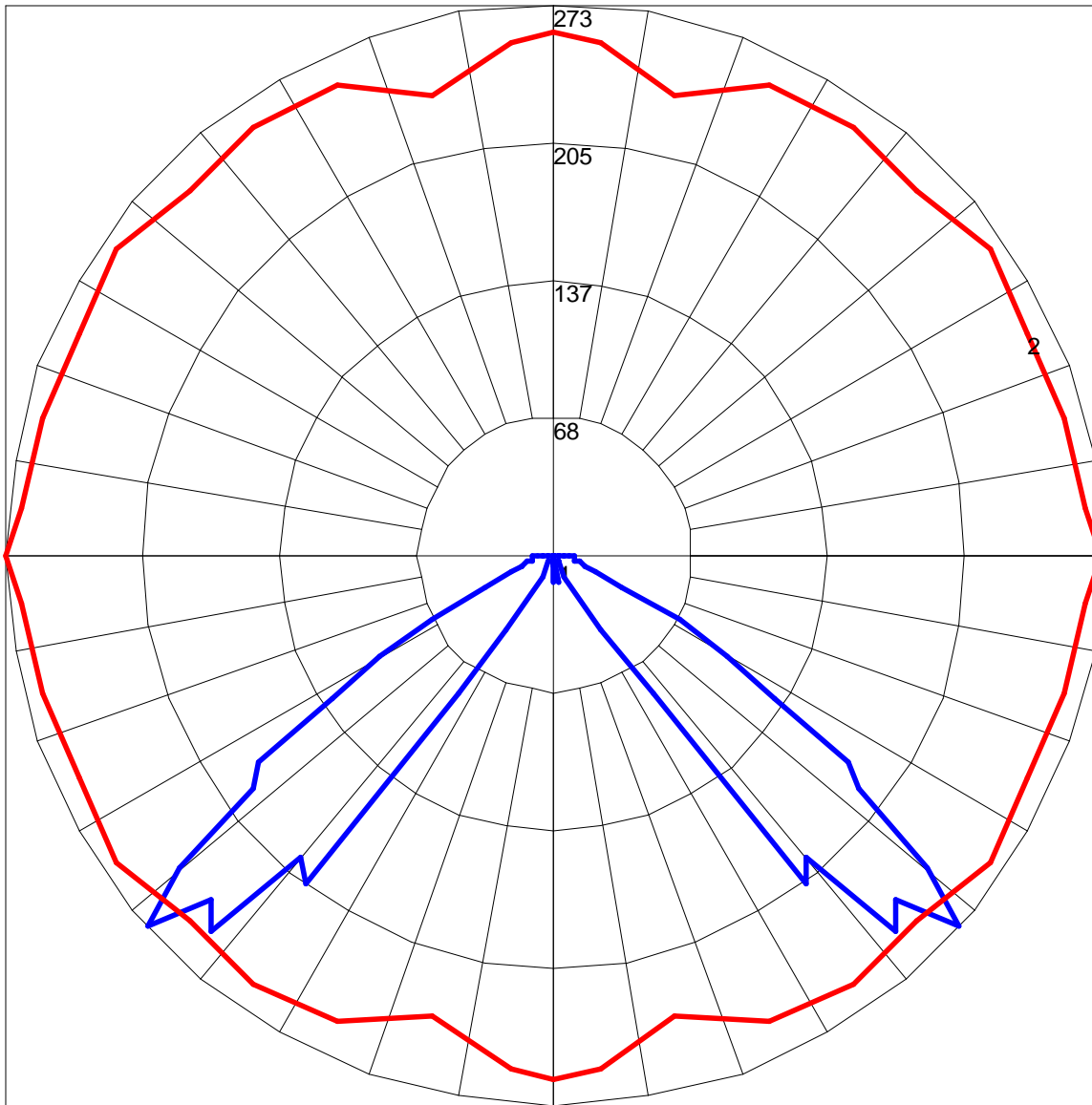
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

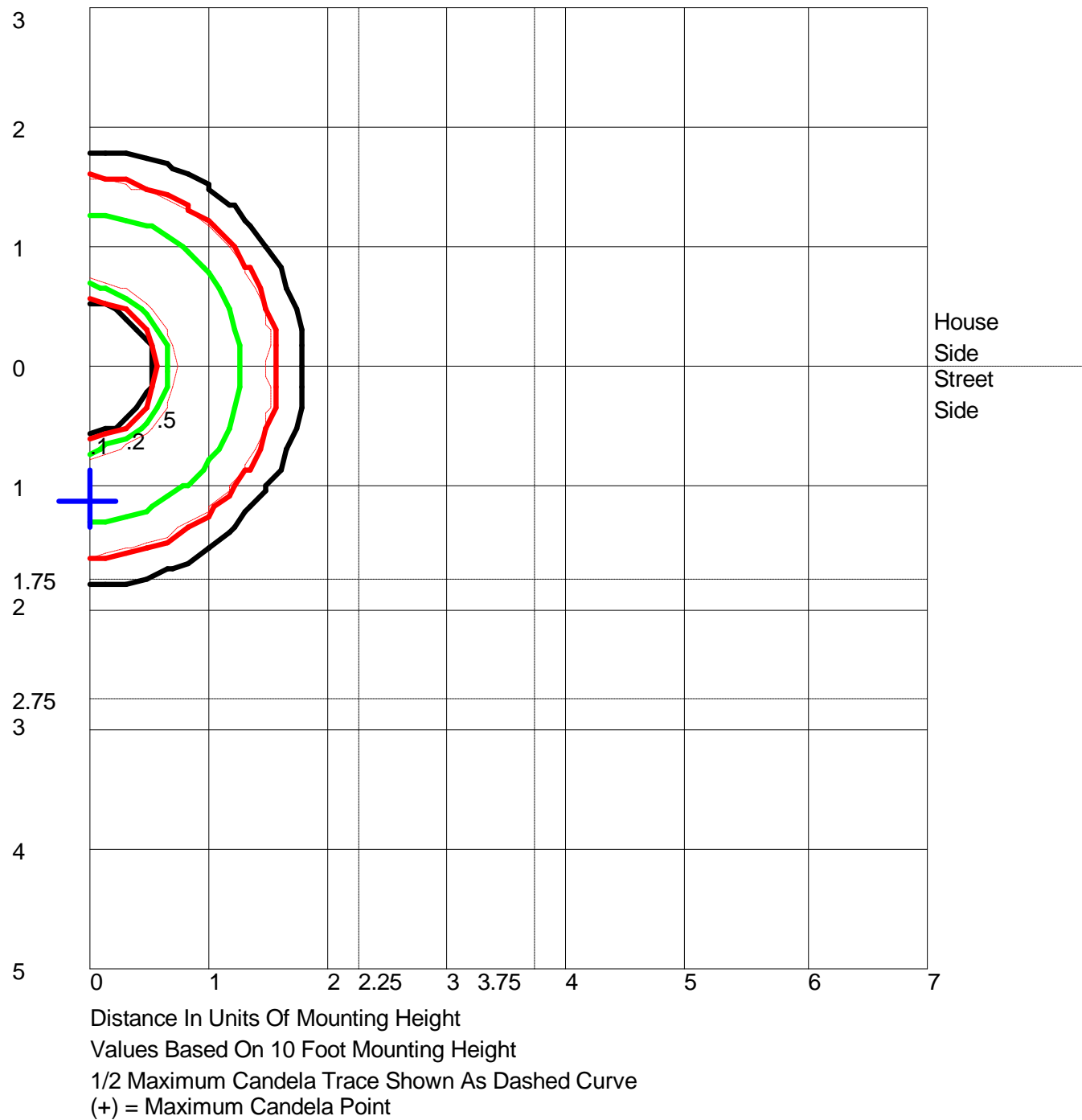
| | Lumens | Percent Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 240.8 | 49.3 |
| Downward House Side | 240.8 | 49.3 |
| Downward Total | 481.6 | 98.5 |
| Upward Street Side | 3.6 | 0.7 |
| Upward House Side | 3.6 | 0.7 |
| Upward Total | 7.2 | 1.5 |
| Total Flux | 488.8 | 100.0 |

POLAR GRAPH

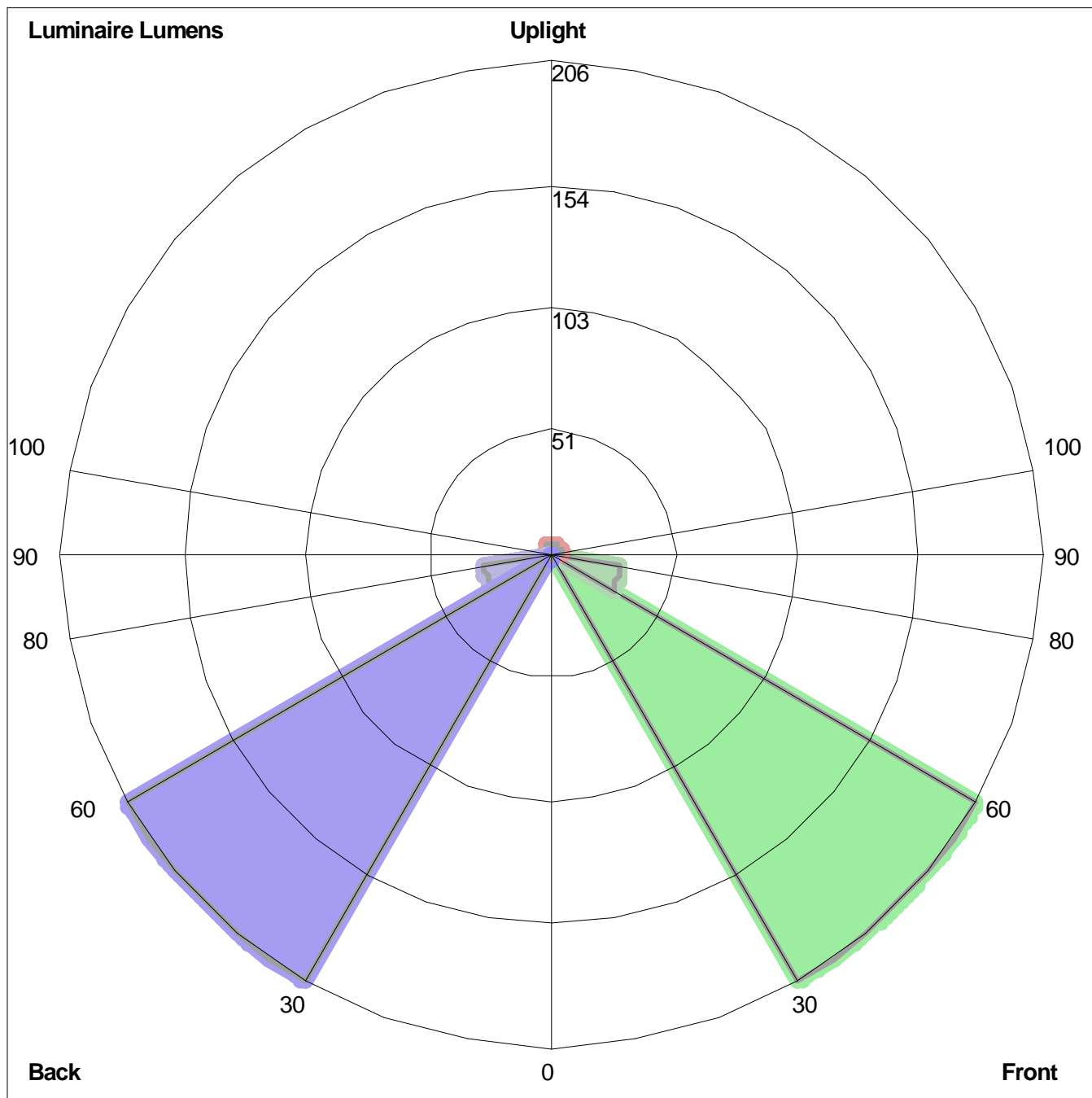


Maximum Candela = 273 Located At Horizontal Angle = 0, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2.2, Medium=205.8, High=29.3, Very High=3.4
Back: Low=2.2, Medium=205.8, High=29.3, Very High=3.4
Uplight: Low=3.5, High=3.7

BUG Rating : B0-U1-G0