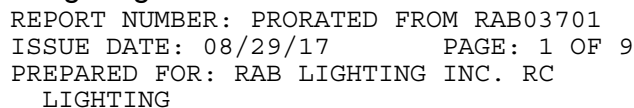


Values based on 3.5 foot mounting height.



CATALOG NUMBER: BLED12-180,  
BLED12-180/D10 (42" SQUARE BOLLARD)  
LUMINAIRE: EXTRUDED BROWN PAINTED  
SQUARE METAL LOWER HOUSING, CAST  
METAL TOP, CAST FINNED METAL HEAT  
SINK WITH WHITE PAINTED INTERIOR,  
MOLDED SPECULAR FINISHED PLASTIC  
REFLECTOR WITH WHITE CORNER DIVIDERS  
CREATING 4 OPTICAL COMPARTMENTS, 2  
OPTICAL COMPARTMENT CONTAINS 1 WHITE  
CIRCUIT BOARD WITH 5 LEDS, FROSTED  
PLASTIC LENS, CAST BROWN PAINTED  
METAL BOTTOM.

LAMP: TEN LIGHT EMITTING DIODES (LEDS).  
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

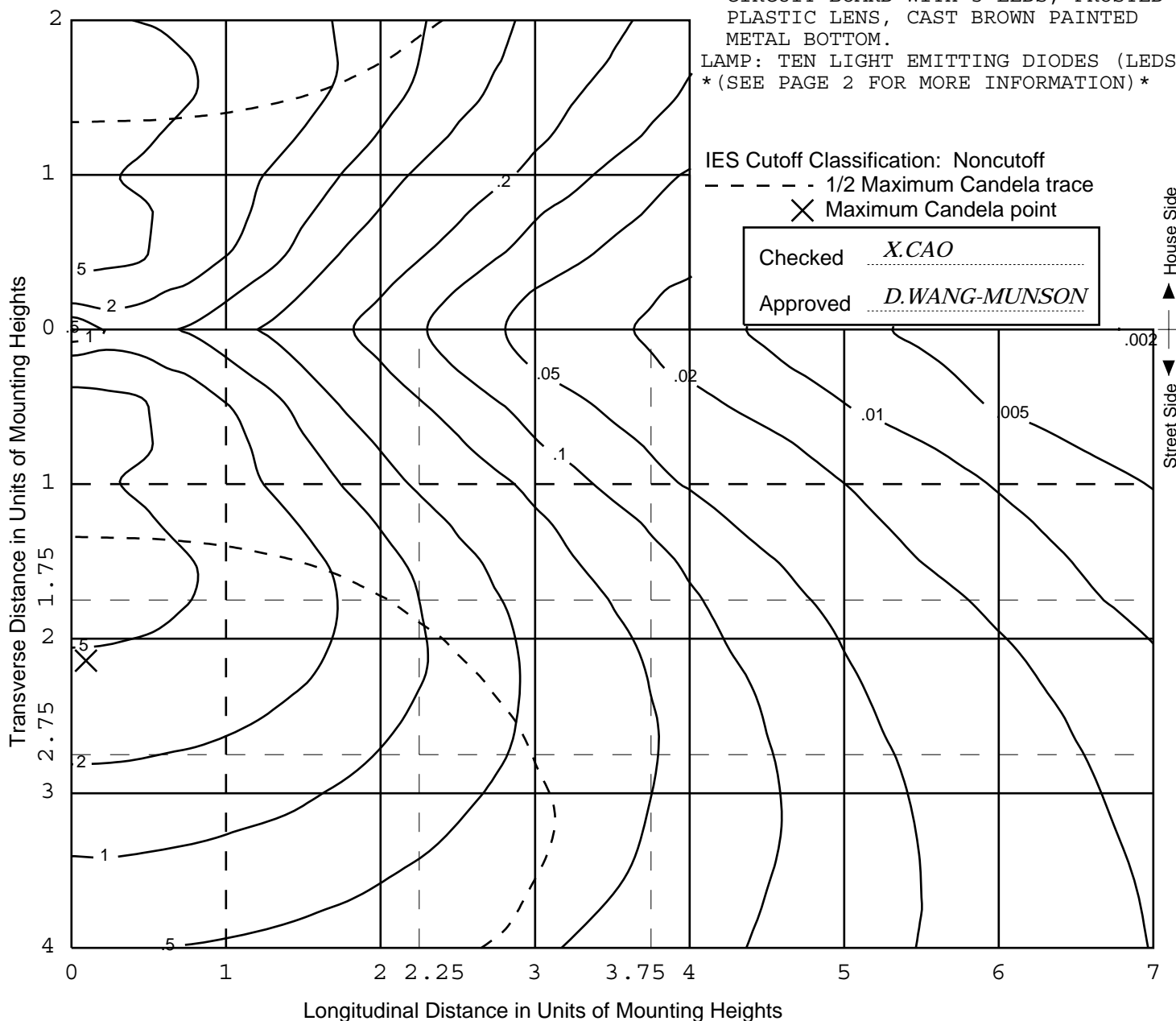
IES Cutoff Classification: Noncutoff

— — — — - 1/2 Maximum Candela trace

✕ Maximum Candela point

Checked X.CAO

Approved D. WANG-MUNSON



REPORT NUMBER: PRORATED FROM RAB03701  
ISSUE DATE: 08/29/17  
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

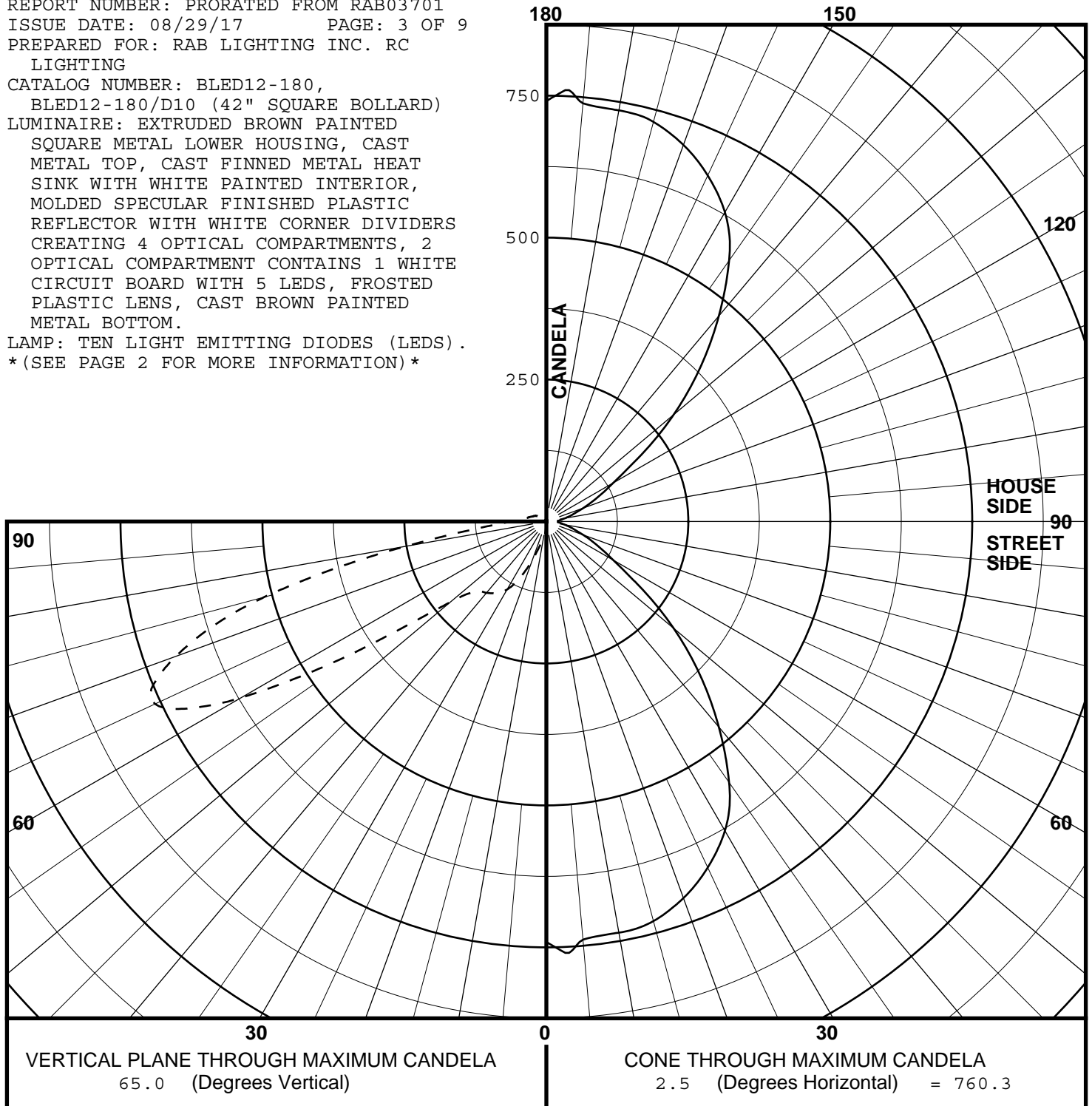
PAGE: 2 OF 9

## ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB03701 WHICH WAS BLED12Y-180,  
BLED12Y-180/D10. ACTUAL PERFORMANCE MAY VARY.  
TOTAL INPUT WATTS = 12.0 W AT 277.0 VAC.  
LED DRIVER: RDD-15W-032SE-A0350  
TEST PROCEDURE: IESNA LM-79-08  
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

### MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

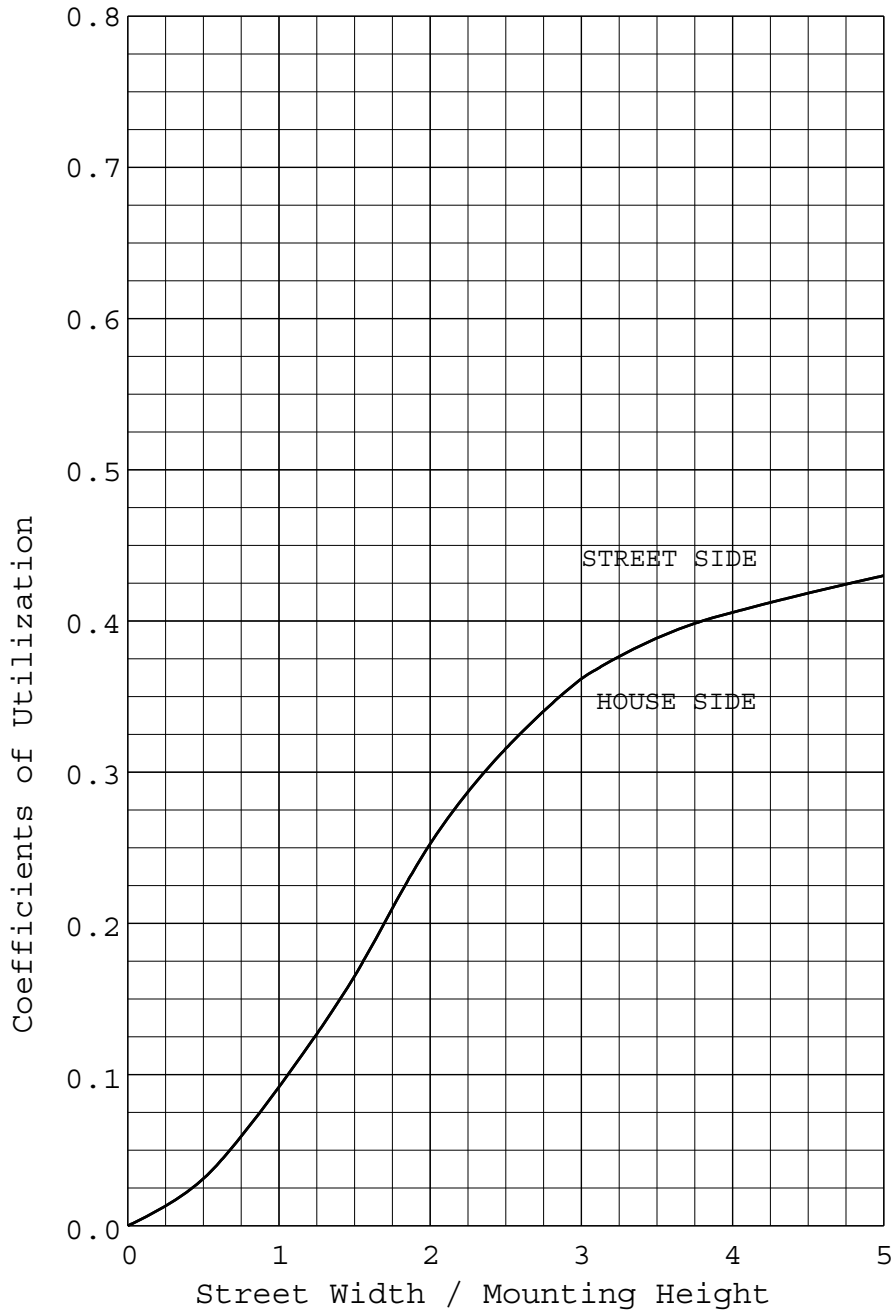
REPORT NUMBER: PRORATED FROM RAB03701  
 ISSUE DATE: 08/29/17 PAGE: 3 OF 9  
 PREPARED FOR: RAB LIGHTING INC. RC  
 LIGHTING  
 CATALOG NUMBER: BLED12-180,  
 BLED12-180/D10 (42" SQUARE BOLLARD)  
 LUMINAIRE: EXTRUDED BROWN PAINTED  
 SQUARE METAL LOWER HOUSING, CAST  
 METAL TOP, CAST FINNED METAL HEAT  
 SINK WITH WHITE PAINTED INTERIOR,  
 MOLDED SPECULAR FINISHED PLASTIC  
 REFLECTOR WITH WHITE CORNER DIVIDERS  
 CREATING 4 OPTICAL COMPARTMENTS, 2  
 OPTICAL COMPARTMENT CONTAINS 1 WHITE  
 CIRCUIT BOARD WITH 5 LEDS, FROSTED  
 PLASTIC LENS, CAST BROWN PAINTED  
 METAL BOTTOM.  
 LAMP: TEN LIGHT EMITTING DIODES (LEDs).  
 \*(SEE PAGE 2 FOR MORE INFORMATION)\*



REPORT NUMBER: PRORATED FROM RAB03701  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 4 OF 9

### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



|                         | LUMENS | PERCENT<br>OF FIXTURE |
|-------------------------|--------|-----------------------|
| DOWNWARD<br>STREET SIDE | 603.   | 46.7                  |
| DOWNWARD<br>HOUSE SIDE  | 603.   | 46.7                  |
| DOWNWARD<br>TOTAL       | 1206.  | 93.4                  |
| UPWARD<br>STREET SIDE   | 43.    | 3.3                   |
| UPWARD<br>HOUSE SIDE    | 43.    | 3.3                   |
| UPWARD<br>TOTAL         | 85.    | 6.6                   |
| TOTAL<br>FLUX           | 1291.  | 100.0                 |
| TOTAL INPUT WATTS = 12  |        |                       |
| EFFICACY = 107.6 Lm/W   |        |                       |

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

REPORT NUMBER: PRORATED FROM RAB03701

ISSUE DATE: 08/29/17

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 5 OF 9

BUG Rating:

Zonal Summary

Lumens

% of Fixture

B1 U2 G1

Zone Ratings

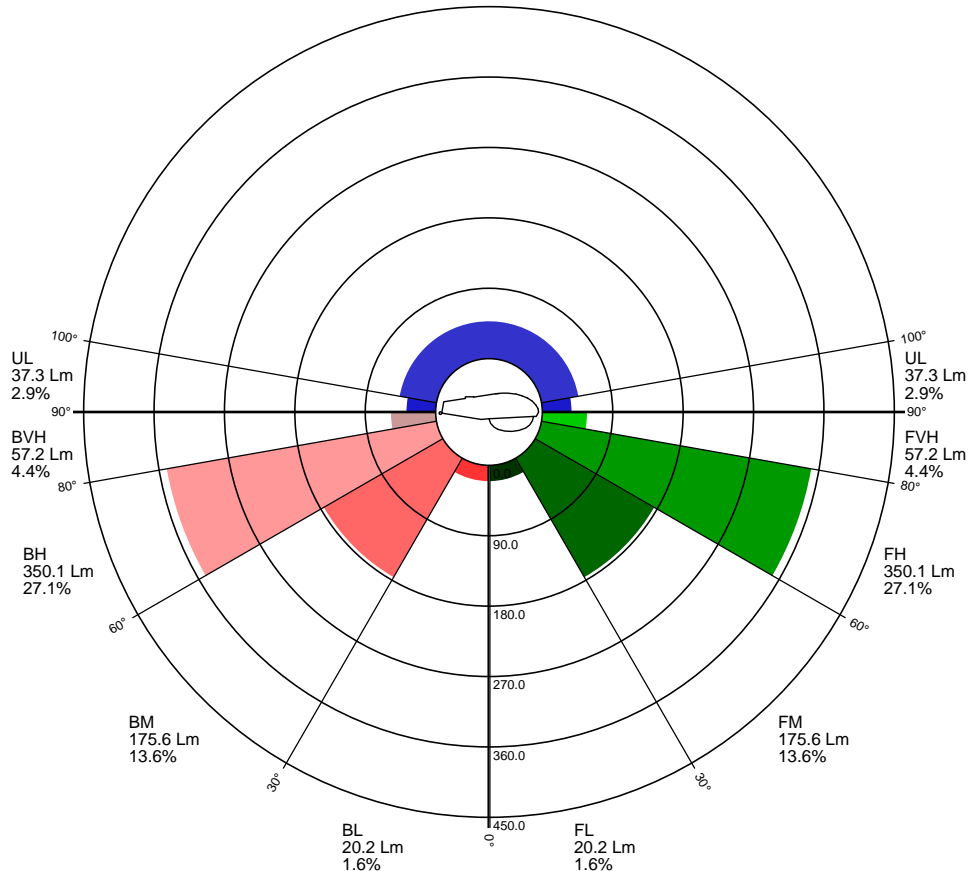
B U G

|               |               |       |       |    |    |    |
|---------------|---------------|-------|-------|----|----|----|
| Forward       |               | 603   | 46.7  |    |    |    |
| FL            | (0° - 30°)    | 20.2  | 1.6   |    |    |    |
| FM            | (30° - 60°)   | 175.6 | 13.6  |    |    |    |
| FH            | (60° - 80°)   | 350.1 | 27.1  |    |    | G0 |
| FVH           | (80° - 90°)   | 57.2  | 4.4   |    |    | G1 |
| Backward      |               | 603   | 46.7  |    |    |    |
| BL            | (0° - 30°)    | 20.2  | 1.6   | B0 |    |    |
| BM            | (30° - 60°)   | 175.6 | 13.6  | B0 |    |    |
| BH            | (60° - 80°)   | 350.1 | 27.1  | B1 |    | G1 |
| BVH           | (80° - 90°)   | 57.2  | 4.4   |    |    | G1 |
| Upward        |               | 85    | 6.6   |    |    |    |
| UL            | (90° - 100°)  | 37.3  | 2.9   |    | U2 |    |
| UH            | (100° - 180°) | 47.8  | 3.7   |    | U2 |    |
| Trapped Light |               | 0     | 0.0   |    |    |    |
| Total Flux    |               | 1291  | 100.0 |    |    |    |

### Zonal Lumen Summary

(Linear scale)

UH  
47.8 Lm  
3.7%

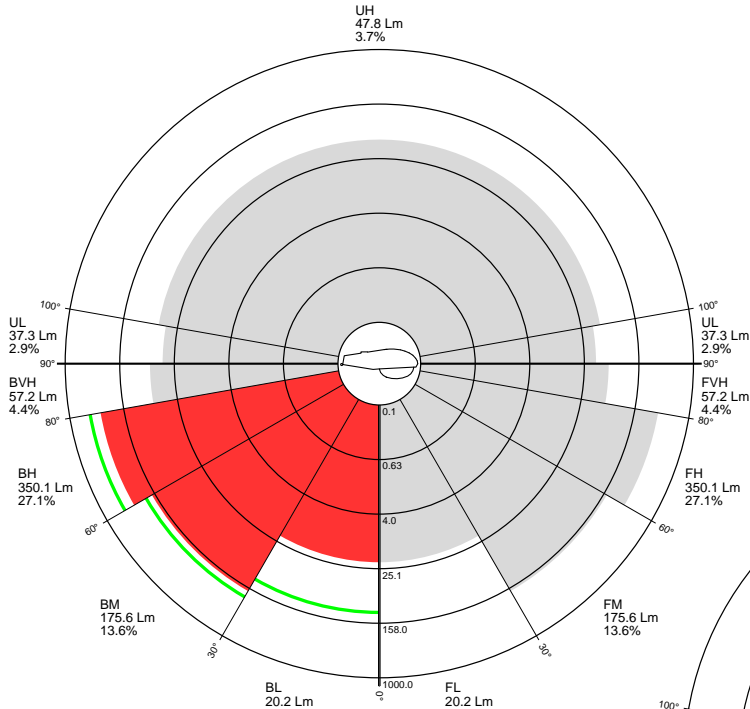


REPORT NUMBER: PRORATED FROM RAB03701  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 6 OF 9

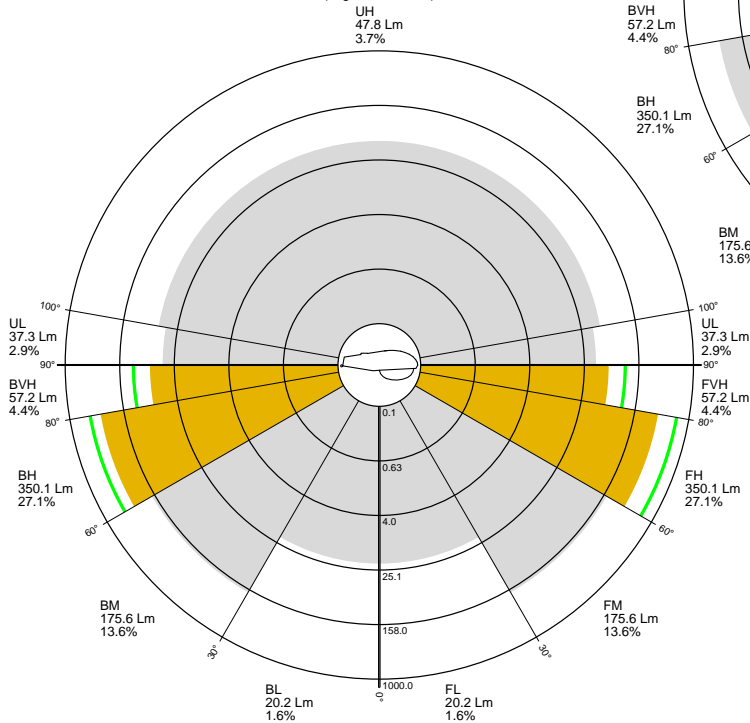
### Backlight Rating Details

(Logarithmic scale)



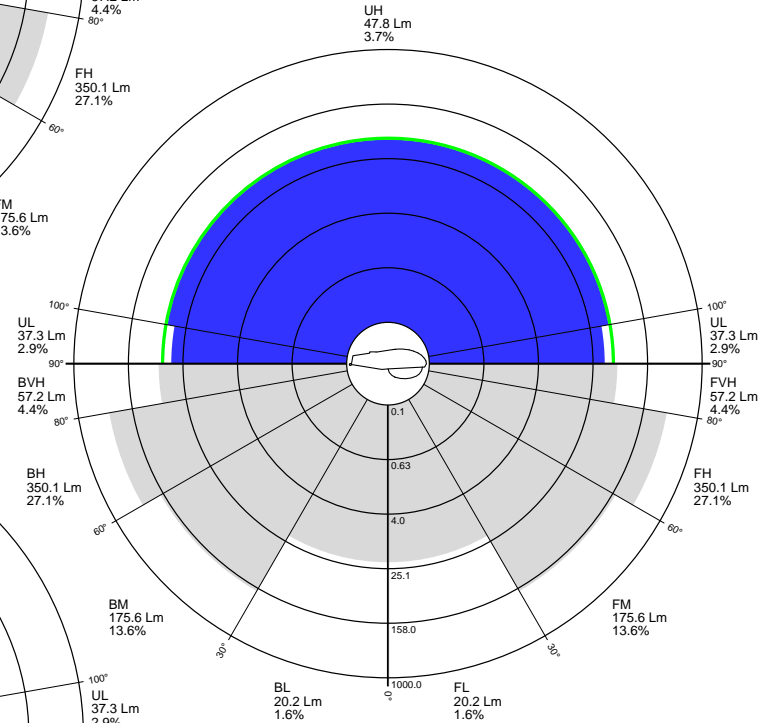
### Glare Rating Details

(Logarithmic scale)



### Uplight Rating Details

(Logarithmic scale)



PAGE: 7 OF 9

STREET SIDE

0.0      2.5      5.0      15.0      25.0      35.0      45.0      55.0      65.0      75.0      85.0

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB03701  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 8 OF 9

### CANDELA TABULATION

|   |        | HOUSE SIDE |      | LATERAL ANGLE |       |       |       |       |       |       |       |       |
|---|--------|------------|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
|   |        | 90.0       | 95.0 | 105.0         | 115.0 | 125.0 | 135.0 | 145.0 | 155.0 | 165.0 | 175.0 | 180.0 |
| V<br>E<br>R<br>T<br>I<br>C<br>A<br>L<br><br>A<br>N<br>G<br>L<br>E | 180.0  | 2.         | 2.   | 2.            | 2.    | 2.    | 2.    | 2.    | 2.    | 2.    | 2.    | 2.    |
|   | 175.0  | 4.         | 4.   | 4.            | 4.    | 2.    | 1.    | 1.    | 0.    | 0.    | 0.    | 0.    |
|   | 165.0  | 2.         | 2.   | 2.            | 2.    | 1.    | 1.    | 1.    | 0.    | 0.    | 0.    | 0.    |
|   | 155.0  | 1.         | 1.   | 1.            | 1.    | 1.    | 1.    | 0.    | 1.    | 0.    | 0.    | 0.    |
|   | 145.0  | 1.         | 1.   | 1.            | 1.    | 1.    | 1.    | 2.    | 2.    | 4.    | 4.    | 4.    |
|   | 135.0  | 1.         | 1.   | 1.            | 1.    | 2.    | 4.    | 5.    | 7.    | 8.    | 8.    | 8.    |
|   | 125.0  | 1.         | 1.   | 1.            | 2.    | 6.    | 8.    | 11.   | 13.   | 15.   | 16.   | 16.   |
|   | 115.0  | 1.         | 2.   | 2.            | 6.    | 11.   | 15.   | 19.   | 21.   | 22.   | 23.   | 23.   |
|   | 105.0  | 2.         | 2.   | 6.            | 13.   | 19.   | 22.   | 26.   | 28.   | 29.   | 30.   | 30.   |
|   | 95.0   | 4.         | 5.   | 14.           | 26.   | 35.   | 40.   | 42.   | 43.   | 43.   | 43.   | 43.   |
|   | 90.0   | 5.         | 7.   | 25.           | 46.   | 59.   | 64.   | 64.   | 64.   | 61.   | 59.   | 59.   |
|   | 87.5   | 5.         | 8.   | 30.           | 61.   | 83.   | 90.   | 87.   | 84.   | 78.   | 75.   | 74.   |
|   | 85.0   | 6.         | 11.  | 36.           | 80.   | 122.  | 135.  | 128.  | 119.  | 108.  | 102.  | 100.  |
|   | 82.5   | 7.         | 12.  | 41.           | 101.  | 172.  | 206.  | 199.  | 183.  | 163.  | 149.  | 146.  |
|   | 80.0   | 9.         | 14.  | 46.           | 118.  | 225.  | 295.  | 303.  | 285.  | 255.  | 234.  | 233.  |
|   | 77.5   | 11.        | 15.  | 47.           | 130.  | 267.  | 376.  | 414.  | 409.  | 383.  | 364.  | 358.  |
|   | 75.0   | 13.        | 16.  | 47.           | 132.  | 294.  | 437.  | 501.  | 517.  | 503.  | 493.  | 489.  |
|   | 72.5   | 14.        | 19.  | 47.           | 125.  | 296.  | 472.  | 567.  | 593.  | 593.  | 589.  | 587.  |
|   | 70.0   | 16.        | 20.  | 47.           | 116.  | 278.  | 474.  | 608.  | 656.  | 663.  | 658.  | 657.  |
|   | 67.5   | 19.        | 22.  | 48.           | 105.  | 243.  | 443.  | 607.  | 688.  | 716.  | 715.  | 713.  |
|   | 65.0<< | 20.        | 23.  | 48.           | 98.   | 203.  | 383.  | 561.  | 672.  | 729.  | 739.  | 740.  |
|   | 62.5   | 21.        | 25.  | 49.           | 94.   | 169.  | 312.  | 483.  | 614.  | 694.  | 717.  | 718.  |
|   | 60.0   | 22.        | 26.  | 50.           | 91.   | 146.  | 246.  | 392.  | 524.  | 620.  | 650.  | 653.  |
|   | 57.5   | 23.        | 27.  | 50.           | 90.   | 135.  | 198.  | 306.  | 424.  | 515.  | 553.  | 555.  |
|   | 55.0   | 23.        | 27.  | 49.           | 88.   | 128.  | 170.  | 238.  | 330.  | 409.  | 445.  | 449.  |
|   | 52.5   | 23.        | 27.  | 48.           | 87.   | 123.  | 155.  | 196.  | 253.  | 312.  | 340.  | 346.  |
|   | 50.0   | 23.        | 27.  | 47.           | 83.   | 121.  | 148.  | 173.  | 206.  | 240.  | 262.  | 265.  |
|   | 47.5   | 22.        | 26.  | 45.           | 80.   | 117.  | 143.  | 163.  | 183.  | 200.  | 212.  | 213.  |
|   | 45.0   | 22.        | 26.  | 42.           | 75.   | 112.  | 139.  | 157.  | 170.  | 180.  | 187.  | 187.  |
|   | 42.5   | 22.        | 25.  | 39.           | 69.   | 107.  | 136.  | 153.  | 164.  | 171.  | 175.  | 176.  |
|   | 40.0   | 22.        | 25.  | 36.           | 62.   | 98.   | 130.  | 149.  | 160.  | 166.  | 169.  | 169.  |
|   | 37.5   | 22.        | 23.  | 35.           | 56.   | 89.   | 122.  | 144.  | 156.  | 163.  | 164.  | 165.  |
| 35.0  | 22.    | 23.        | 33.  | 50.           | 80.   | 111.  | 136.  | 150.  | 157.  | 160.  | 160.  |       |
| 30.0  | 21.    | 22.        | 29.  | 40.           | 60.   | 84.   | 110.  | 130.  | 141.  | 144.  | 144.  |       |
| 25.0  | 21.    | 21.        | 26.  | 34.           | 45.   | 59.   | 76.   | 93.   | 104.  | 110.  | 110.  |       |
| 20.0  | 20.    | 21.        | 25.  | 28.           | 34.   | 41.   | 50.   | 59.   | 66.   | 69.   | 69.   |       |
| 15.0  | 18.    | 19.        | 23.  | 25.           | 28.   | 30.   | 35.   | 37.   | 41.   | 42.   | 42.   |       |
| 10.0  | 9.     | 11.        | 14.  | 18.           | 20.   | 23.   | 26.   | 27.   | 28.   | 28.   | 28.   |       |
| 5.0   | 2.     | 2.         | 4.   | 4.            | 5.    | 6.    | 8.    | 11.   | 13.   | 15.   | 18.   |       |
| 0.0   | 1.     | 1.         | 1.   | 1.            | 1.    | 1.    | 1.    | 1.    | 1.    | 1.    | 1.    |       |

CONE OF MAXIMUM CANDELA



REPORT NUMBER: PRORATED FROM RAB03701  
ISSUE DATE: 08/29/17  
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 9 OF 9

### 5-DEGREE ZONAL LUMEN SUMMARY

|         |     |
|---------|-----|
| 0- 5    | 0   |
| 5- 10   | 1   |
| 10- 15  | 3   |
| 15- 20  | 6   |
| 20- 25  | 11  |
| 25- 30  | 19  |
| 30- 35  | 27  |
| 35- 40  | 35  |
| 40- 45  | 43  |
| 45- 50  | 53  |
| 50- 55  | 75  |
| 55- 60  | 118 |
| 60- 65  | 169 |
| 65- 70  | 199 |
| 70- 75  | 190 |
| 75- 80  | 142 |
| 80- 85  | 77  |
| 85- 90  | 38  |
| 90- 95  | 22  |
| 95-100  | 15  |
| 100-105 | 12  |
| 105-110 | 9   |
| 110-115 | 8   |
| 115-120 | 6   |
| 120-125 | 4   |
| 125-130 | 3   |
| 130-135 | 2   |
| 135-140 | 1   |
| 140-145 | 1   |
| 145-150 | 0   |
| 150-155 | 0   |
| 155-160 | 0   |
| 160-165 | 0   |
| 165-170 | 0   |
| 170-175 | 0   |
| 175-180 | 0   |

### 10-DEGREE ZONAL LUMEN SUMMARY

|       |      |
|-------|------|
| 0- 10 | 1    |
| 0- 20 | 11   |
| 0- 30 | 40   |
| 0- 40 | 103  |
| 0- 50 | 199  |
| 0- 60 | 392  |
| 0- 70 | 760  |
| 0- 80 | 1092 |
| 0- 90 | 1206 |
| 0-100 | 1243 |
| 0-110 | 1265 |
| 0-120 | 1278 |
| 0-130 | 1286 |
| 0-140 | 1289 |
| 0-150 | 1290 |
| 0-160 | 1291 |
| 0-170 | 1291 |
| 0-180 | 1291 |