

REPORT NUMBER: SCALED FROM RAB00932

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ISSUE DATE: 06/09/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: BAYLED104YW/D10+GDBAYLED78FP (Clear Flat Glass Lens with Frosted Polyshield - standoffs installed)

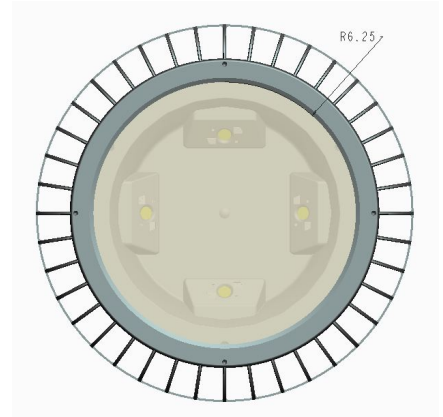
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

### CANDELA DISTRIBUTION

|     | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
|-----|------|------|------|------|------|
| 0   | 2700 | 2700 | 2700 | 2700 | 2700 |
| 5   | 2686 | 2686 | 2687 | 2686 | 2686 |
| 15  | 2571 | 2573 | 2573 | 2572 | 2572 |
| 25  | 2345 | 2344 | 2344 | 2345 | 2343 |
| 35  | 2041 | 2042 | 2042 | 2043 | 2046 |
| 45  | 1687 | 1687 | 1693 | 1688 | 1692 |
| 55  | 1329 | 1331 | 1331 | 1329 | 1330 |
| 65  | 968  | 1019 | 946  | 1005 | 959  |
| 75  | 529  | 654  | 751  | 667  | 540  |
| 85  | 129  | 122  | 122  | 120  | 133  |
| 90  | 15   | 17   | 17   | 19   | 19   |
| 95  | 76   | 81   | 80   | 81   | 76   |
| 105 | 136  | 151  | 154  | 151  | 136  |
| 115 | 102  | 105  | 102  | 104  | 103  |
| 125 | 63   | 64   | 61   | 64   | 63   |
| 135 | 34   | 34   | 33   | 34   | 33   |
| 145 | 10   | 10   | 11   | 10   | 11   |
| 155 | 10   | 9    | 9    | 9    | 9    |
| 165 | 8    | 8    | 8    | 8    | 8    |
| 175 | 3    | 3    | 4    | 3    | 3    |
| 180 | 3    | 3    | 3    | 3    | 3    |

### FLUX

|      |
|------|
| 255  |
| 725  |
| 1080 |
| 1277 |
| 1304 |
| 1190 |
| 960  |
| 705  |
| 194  |
| 85   |
| 151  |
| 104  |
| 57   |
| 27   |
| 8    |
| 4    |
| 2    |
| 0    |



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS | %FIXT |
|--------|--------|-------|
| 0- 30  | 2060   | 25.3  |
| 0- 40  | 3338   | 41.1  |
| 0- 60  | 5832   | 71.7  |
| 0- 90  | 7691   | 94.6  |
| 90-120 | 341    | 4.2   |
| 90-130 | 398    | 4.9   |
| 90-150 | 432    | 5.3   |
| 90-180 | 439    | 5.4   |
| 0-180  | 8130   | 100.0 |

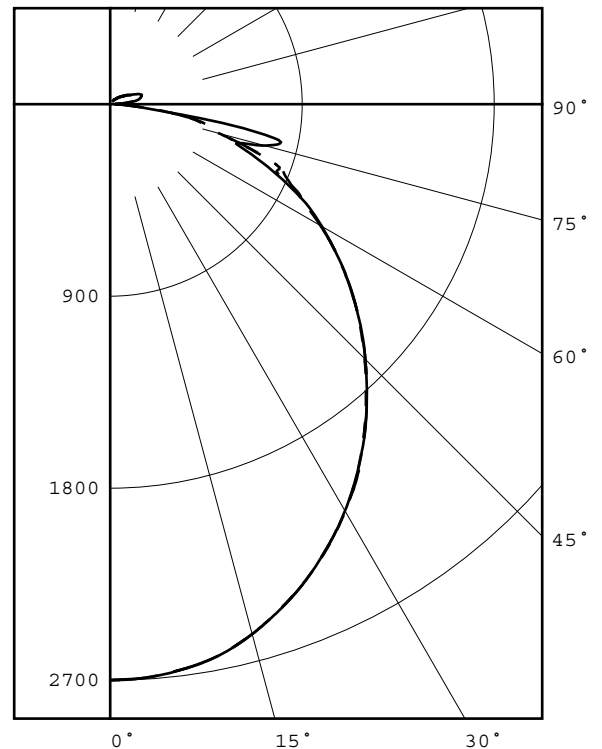
TOTAL INPUT WATTS = 116.18

EFFICACY = 70.0 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.2



#### LEGEND:

0-deg: - - - - -  
 45-deg: = = = = =  
 90-deg: \_ \_ \_ \_ \_

Checked

X.CAO

Approved

D.WANG-MUNSON

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## ADDITIONAL INFORMATION

LUMINAIRE: CAST 2-PIECE WHITE PAINTED FINNDED METAL HOUSING, 4 FLAT METAL HEAT SINKS WITH 4 EXTRUDED METAL HEAT SINKS, 4 CIRCUIT BOARDS EACH WITH 1 LED AND MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, MOLDED PLASTIC TRIM WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST WHITE PAINTED METAL LENS FRAME, WITH FROSTED POLYSHIELD IN FRONT HOLDED BY 4 METAL SHAFTS.  
LAMPS: FOUR WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), TILTED 30-DEGREES FROM VERTICAL BASE-UP POSITION.  
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
TOTAL INPUT WATTS: 116.18 W AT 120.0 VOLTS  
TEST PROCEDURE: IESNA LM-79-08  
TEST DISTANCE: 28.25 FEET  
PREPARED FOR: RAB LIGHTING INC.  
LED DRIVER: TWO RD-052-A1400-C  
ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 108.8 X 108.9 DEGREES  
FIELD ANGLE (10%) : 164.4 X 164.4 DEGREES

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### CANDELA DISTRIBUTION

|       | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
|-------|------|------|------|------|------|
| 0.0   | 2700 | 2700 | 2700 | 2700 | 2700 |
| 5.0   | 2686 | 2686 | 2687 | 2686 | 2686 |
| 10.0  | 2648 | 2648 | 2649 | 2649 | 2648 |
| 15.0  | 2571 | 2573 | 2573 | 2572 | 2572 |
| 20.0  | 2467 | 2470 | 2469 | 2470 | 2468 |
| 25.0  | 2345 | 2344 | 2344 | 2345 | 2343 |
| 30.0  | 2204 | 2201 | 2202 | 2204 | 2201 |
| 35.0  | 2041 | 2042 | 2042 | 2043 | 2046 |
| 40.0  | 1864 | 1866 | 1870 | 1866 | 1869 |
| 45.0  | 1687 | 1687 | 1693 | 1688 | 1692 |
| 50.0  | 1513 | 1506 | 1512 | 1507 | 1513 |
| 55.0  | 1329 | 1331 | 1331 | 1329 | 1330 |
| 60.0  | 1137 | 1164 | 1147 | 1191 | 1138 |
| 65.0  | 968  | 1019 | 946  | 1005 | 959  |
| 70.0  | 830  | 727  | 723  | 724  | 842  |
| 75.0  | 529  | 654  | 751  | 667  | 540  |
| 80.0  | 395  | 539  | 605  | 539  | 389  |
| 85.0  | 129  | 122  | 122  | 120  | 133  |
| 90.0  | 15   | 17   | 17   | 19   | 19   |
| 95.0  | 76   | 81   | 80   | 81   | 76   |
| 100.0 | 134  | 141  | 138  | 140  | 133  |
| 105.0 | 136  | 151  | 154  | 151  | 136  |
| 110.0 | 120  | 133  | 138  | 134  | 120  |
| 115.0 | 102  | 105  | 102  | 104  | 103  |
| 120.0 | 84   | 81   | 77   | 81   | 84   |
| 125.0 | 63   | 64   | 61   | 64   | 63   |
| 130.0 | 46   | 48   | 47   | 48   | 46   |
| 135.0 | 34   | 34   | 33   | 34   | 33   |
| 140.0 | 21   | 20   | 21   | 20   | 21   |
| 145.0 | 10   | 10   | 11   | 10   | 11   |
| 150.0 | 8    | 8    | 8    | 8    | 8    |
| 155.0 | 10   | 9    | 9    | 9    | 9    |
| 160.0 | 10   | 9    | 10   | 9    | 10   |
| 165.0 | 8    | 8    | 8    | 8    | 8    |
| 170.0 | 6    | 6    | 6    | 6    | 6    |
| 175.0 | 3    | 3    | 4    | 3    | 3    |
| 180.0 | 3    | 3    | 3    | 3    | 3    |

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## ZONAL LUMEN SUMMARY

|         |      |
|---------|------|
| 0- 5    | 64.  |
| 5- 10   | 191. |
| 10- 15  | 310. |
| 15- 20  | 415. |
| 20- 25  | 505. |
| 25- 30  | 575. |
| 30- 35  | 625. |
| 35- 40  | 652. |
| 40- 45  | 658. |
| 45- 50  | 646. |
| 50- 55  | 617. |
| 55- 60  | 573. |
| 60- 65  | 526. |
| 65- 70  | 433. |
| 70- 75  | 363. |
| 75- 80  | 343. |
| 80- 85  | 160. |
| 85- 90  | 34.  |
| 90- 95  | 23.  |
| 95-100  | 62.  |
| 100-105 | 78.  |
| 105-110 | 74.  |
| 110-115 | 59.  |
| 115-120 | 45.  |
| 120-125 | 33.  |
| 125-130 | 24.  |
| 130-135 | 16.  |
| 135-140 | 10.  |
| 140-145 | 5.   |
| 145-150 | 3.   |
| 150-155 | 2.   |
| 155-160 | 2.   |
| 160-165 | 1.   |
| 165-170 | 1.   |
| 170-175 | 0.   |
| 175-180 | 0.   |

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### 5-DEGREE ZONAL LUMEN SUMMARY

|         |     |
|---------|-----|
| 0- 5    | 64  |
| 5- 10   | 191 |
| 10- 15  | 310 |
| 15- 20  | 415 |
| 20- 25  | 505 |
| 25- 30  | 575 |
| 30- 35  | 625 |
| 35- 40  | 652 |
| 40- 45  | 658 |
| 45- 50  | 646 |
| 50- 55  | 617 |
| 55- 60  | 573 |
| 60- 65  | 526 |
| 65- 70  | 433 |
| 70- 75  | 363 |
| 75- 80  | 343 |
| 80- 85  | 160 |
| 85- 90  | 34  |
| 90- 95  | 23  |
| 95-100  | 62  |
| 100-105 | 78  |
| 105-110 | 74  |
| 110-115 | 59  |
| 115-120 | 45  |
| 120-125 | 33  |
| 125-130 | 24  |
| 130-135 | 16  |
| 135-140 | 10  |
| 140-145 | 5   |
| 145-150 | 3   |
| 150-155 | 2   |
| 155-160 | 2   |
| 160-165 | 1   |
| 165-170 | 1   |
| 170-175 | 0   |
| 175-180 | 0   |

### 10-DEGREE ZONAL LUMEN SUMMARY

|       |      |
|-------|------|
| 0- 10 | 255  |
| 0- 20 | 980  |
| 0- 30 | 2060 |
| 0- 40 | 3338 |
| 0- 50 | 4642 |
| 0- 60 | 5832 |
| 0- 70 | 6792 |
| 0- 80 | 7497 |
| 0- 90 | 7691 |
| 0-100 | 7776 |
| 0-110 | 7928 |
| 0-120 | 8032 |
| 0-130 | 8089 |
| 0-140 | 8116 |
| 0-150 | 8123 |
| 0-160 | 8127 |
| 0-170 | 8130 |
| 0-180 | 8130 |

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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  | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 95 |
| 1  | 107 | 102 | 97  | 93  | 104 | 99  | 95  | 91  | 94  | 90  | 87  | 89  | 86  | 84  | 85 | 82 | 80 | 78 |
| 2  | 97  | 88  | 81  | 75  | 94  | 86  | 79  | 74  | 82  | 76  | 71  | 77  | 73  | 69  | 74 | 70 | 67 | 64 |
| 3  | 88  | 77  | 69  | 62  | 85  | 75  | 68  | 61  | 72  | 65  | 60  | 68  | 63  | 58  | 65 | 60 | 56 | 54 |
| 4  | 81  | 68  | 59  | 53  | 78  | 67  | 58  | 52  | 63  | 56  | 51  | 60  | 54  | 49  | 58 | 52 | 48 | 46 |
| 5  | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 57  | 49  | 44  | 54  | 48  | 43  | 52 | 46 | 42 | 39 |
| 6  | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 51  | 44  | 38  | 49  | 43  | 37  | 47 | 41 | 37 | 35 |
| 7  | 63  | 50  | 41  | 35  | 61  | 49  | 40  | 34  | 47  | 39  | 34  | 45  | 38  | 33  | 43 | 37 | 33 | 31 |
| 8  | 59  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 39 | 34 | 29 | 27 |
| 9  | 55  | 42  | 33  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 31  | 27  | 36 | 31 | 26 | 25 |
| 10 | 52  | 38  | 31  | 25  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 34 | 28 | 24 | 22 |

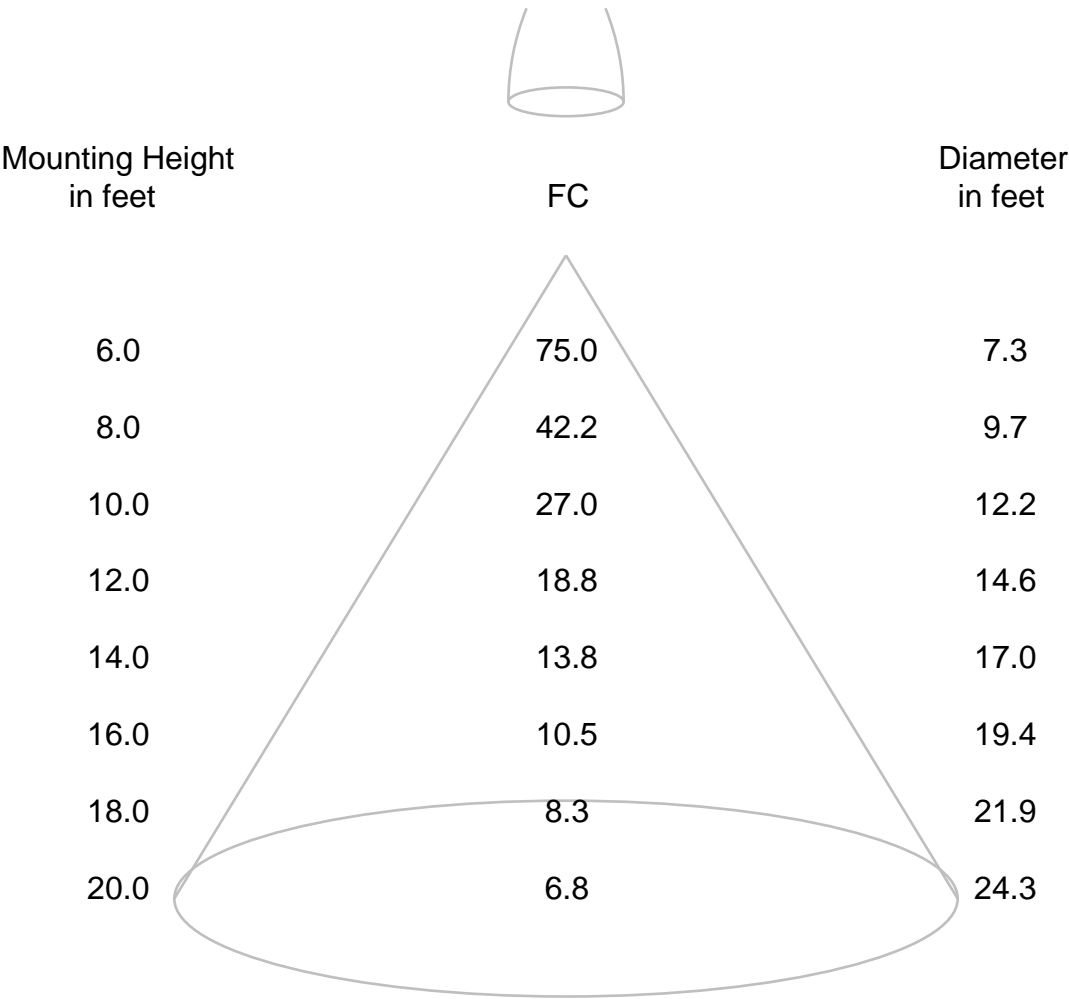
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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# CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.