

REPORT NUMBER: SCALED FROM RAB00909

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ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA80YW/D10

LUMINAIRE: ONE LUMINAIRE CONSISTING OF TWO OPPOSING LIGHT HEADS, EACH LIGHT HEAD CONSISTING OF: CAST FINNED METAL HOUSING, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, ONE CIRCUIT BOARD WITH 16 LEDS, CLEAR FLAT PRISMATIC GLASS LENS.

LAMPS: THIRTY TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), TILTED 15-DEGREES FROM VERTICAL BASE-UP POSITION.

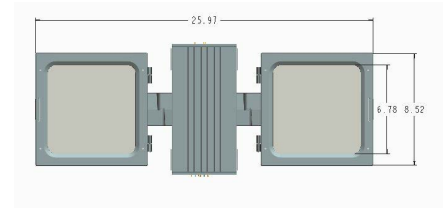
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

### CANDELA DISTRIBUTION

|     | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
|-----|------|------|------|------|------|
| 0   | 6409 | 6409 | 6409 | 6409 | 6409 |
| 5   | 5931 | 6039 | 6170 | 6285 | 6351 |
| 15  | 2880 | 3107 | 3889 | 5416 | 6108 |
| 25  | 1503 | 1682 | 2226 | 3793 | 5514 |
| 35  | 339  | 508  | 1193 | 2392 | 4585 |
| 45  | 80   | 133  | 438  | 1492 | 3631 |
| 55  | 43   | 55   | 149  | 873  | 2697 |
| 65  | 29   | 37   | 69   | 408  | 1764 |
| 75  | 17   | 22   | 35   | 148  | 900  |
| 85  | 4    | 9    | 21   | 68   | 345  |
| 90  | 0    | 5    | 16   | 46   | 176  |
| 95  | 0    | 2    | 8    | 29   | 77   |
| 105 | 0    | 2    | 0    | 0    | 0    |
| 115 | 0    | 2    | 0    | 0    | 0    |
| 125 | 0    | 2    | 0    | 0    | 0    |
| 135 | 0    | 2    | 1    | 1    | 1    |
| 145 | 0    | 2    | 2    | 1    | 1    |
| 155 | 1    | 3    | 3    | 1    | 0    |
| 165 | 2    | 4    | 3    | 0    | 0    |
| 175 | 3    | 5    | 4    | 1    | 0    |
| 180 | 3    | 3    | 3    | 3    | 3    |

### FLUX

|      |
|------|
| 557  |
| 1185 |
| 1282 |
| 1037 |
| 765  |
| 550  |
| 352  |
| 181  |
| 77   |
| 23   |
| 2    |
| 0    |
| 1    |
| 1    |
| 1    |
| 1    |
| 0    |



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS | %FIXT |
|--------|--------|-------|
| 0- 30  | 3024   | 50.3  |
| 0- 40  | 4061   | 67.5  |
| 0- 60  | 5376   | 89.4  |
| 0- 90  | 5986   | 99.5  |
| 90-120 | 25     | 0.4   |
| 90-130 | 25     | 0.4   |
| 90-150 | 27     | 0.4   |
| 90-180 | 29     | 0.5   |
| 0-180  | 6014   | 100.0 |

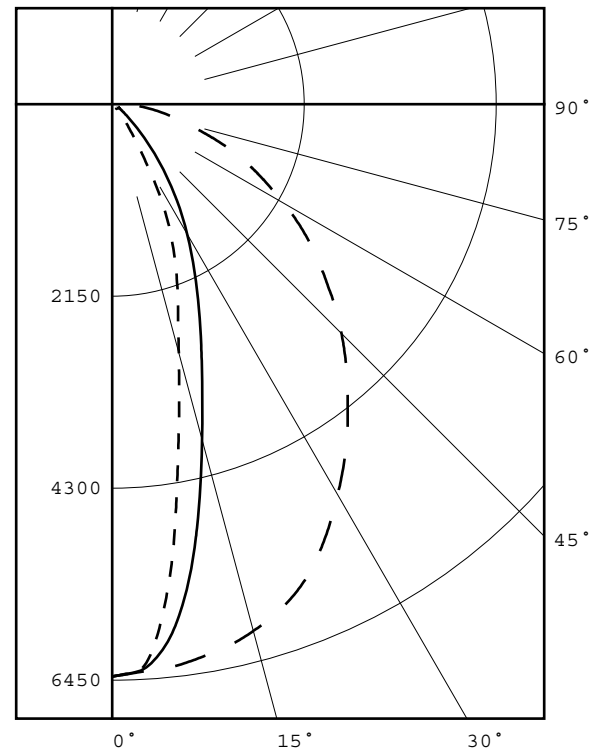
TOTAL INPUT WATTS = 83.4

EFFICACY = 72.1 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 0.4 1.2



#### LEGEND:

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

Checked X.CAO  
 Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
TOTAL INPUT WATTS =83.4 AT 120.0 VAC.  
LED DRIVER: RDD-075-A1400  
TEST PROCEDURE: IESNA LM-79-08  
ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 27.2 X 98.9 DEGREES  
FIELD ANGLE (10%): 62.6 X 158.2 DEGREES

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### CANDELA DISTRIBUTION

|       | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
|-------|------|------|------|------|------|
| 0.0   | 6409 | 6409 | 6409 | 6409 | 6409 |
| 5.0   | 5931 | 6039 | 6170 | 6285 | 6351 |
| 10.0  | 4208 | 4504 | 5190 | 5971 | 6253 |
| 15.0  | 2880 | 3107 | 3889 | 5416 | 6108 |
| 20.0  | 2125 | 2282 | 2920 | 4620 | 5880 |
| 25.0  | 1503 | 1682 | 2226 | 3793 | 5514 |
| 30.0  | 786  | 1058 | 1685 | 3029 | 5050 |
| 35.0  | 339  | 508  | 1193 | 2392 | 4585 |
| 40.0  | 162  | 252  | 775  | 1891 | 4095 |
| 45.0  | 80   | 133  | 438  | 1492 | 3631 |
| 50.0  | 54   | 75   | 246  | 1167 | 3150 |
| 55.0  | 43   | 55   | 149  | 873  | 2697 |
| 60.0  | 36   | 45   | 98   | 621  | 2217 |
| 65.0  | 29   | 37   | 69   | 408  | 1764 |
| 70.0  | 23   | 30   | 51   | 245  | 1320 |
| 75.0  | 17   | 22   | 35   | 148  | 900  |
| 80.0  | 11   | 15   | 26   | 100  | 588  |
| 85.0  | 4    | 9    | 21   | 68   | 345  |
| 90.0  | 0    | 5    | 16   | 46   | 176  |
| 95.0  | 0    | 2    | 8    | 29   | 77   |
| 100.0 | 0    | 2    | 1    | 10   | 26   |
| 105.0 | 0    | 2    | 0    | 0    | 0    |
| 110.0 | 0    | 2    | 0    | 0    | 0    |
| 115.0 | 0    | 2    | 0    | 0    | 0    |
| 120.0 | 0    | 1    | 0    | 0    | 0    |
| 125.0 | 0    | 2    | 0    | 0    | 0    |
| 130.0 | 0    | 2    | 1    | 0    | 0    |
| 135.0 | 0    | 2    | 1    | 1    | 1    |
| 140.0 | 0    | 2    | 2    | 1    | 1    |
| 145.0 | 0    | 2    | 2    | 1    | 1    |
| 150.0 | 1    | 3    | 2    | 1    | 0    |
| 155.0 | 1    | 3    | 3    | 1    | 0    |
| 160.0 | 2    | 4    | 2    | 0    | 0    |
| 165.0 | 2    | 4    | 3    | 0    | 0    |
| 170.0 | 3    | 5    | 3    | 0    | 0    |
| 175.0 | 3    | 5    | 4    | 1    | 0    |
| 180.0 | 3    | 3    | 3    | 3    | 3    |

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## ZONAL LUMEN SUMMARY

|         |      |
|---------|------|
| 0- 5    | 150. |
| 5- 10   | 407. |
| 10- 15  | 556. |
| 15- 20  | 629. |
| 20- 25  | 654. |
| 25- 30  | 628. |
| 30- 35  | 557. |
| 35- 40  | 480. |
| 40- 45  | 413. |
| 45- 50  | 352. |
| 50- 55  | 300. |
| 55- 60  | 250. |
| 60- 65  | 200. |
| 65- 70  | 152. |
| 70- 75  | 107. |
| 75- 80  | 73.  |
| 80- 85  | 48.  |
| 85- 90  | 29.  |
| 90- 95  | 16.  |
| 95-100  | 7.   |
| 100-105 | 1.   |
| 105-110 | 0.   |
| 110-115 | 0.   |
| 115-120 | 0.   |
| 120-125 | 0.   |
| 125-130 | 0.   |
| 130-135 | 0.   |
| 135-140 | 0.   |
| 140-145 | 0.   |
| 145-150 | 0.   |
| 150-155 | 0.   |
| 155-160 | 0.   |
| 160-165 | 0.   |
| 165-170 | 0.   |
| 170-175 | 0.   |
| 175-180 | 0.   |

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### 5-DEGREE ZONAL LUMEN SUMMARY

|         |     |
|---------|-----|
| 0- 5    | 150 |
| 5- 10   | 407 |
| 10- 15  | 556 |
| 15- 20  | 629 |
| 20- 25  | 654 |
| 25- 30  | 628 |
| 30- 35  | 557 |
| 35- 40  | 480 |
| 40- 45  | 413 |
| 45- 50  | 352 |
| 50- 55  | 300 |
| 55- 60  | 250 |
| 60- 65  | 200 |
| 65- 70  | 152 |
| 70- 75  | 107 |
| 75- 80  | 73  |
| 80- 85  | 48  |
| 85- 90  | 29  |
| 90- 95  | 16  |
| 95-100  | 7   |
| 100-105 | 1   |
| 105-110 | 0   |
| 110-115 | 0   |
| 115-120 | 0   |
| 120-125 | 0   |
| 125-130 | 0   |
| 130-135 | 0   |
| 135-140 | 0   |
| 140-145 | 0   |
| 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 | 557  |
| 0- 20 | 1742 |
| 0- 30 | 3024 |
| 0- 40 | 4061 |
| 0- 50 | 4826 |
| 0- 60 | 5376 |
| 0- 70 | 5728 |
| 0- 80 | 5909 |
| 0- 90 | 5986 |
| 0-100 | 6008 |
| 0-110 | 6010 |
| 0-120 | 6010 |
| 0-130 | 6011 |
| 0-140 | 6012 |
| 0-150 | 6013 |
| 0-160 | 6014 |
| 0-170 | 6014 |
| 0-180 | 6014 |

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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  | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |
| 2  | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 80  | 78  |
| 3  | 97  | 88  | 82  | 77  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4  | 90  | 81  | 74  | 68  | 88  | 79  | 73  | 68  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 63  |
| 5  | 85  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 59  | 57  |
| 6  | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |
| 7  | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |
| 8  | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |
| 9  | 67  | 56  | 49  | 44  | 66  | 55  | 48  | 44  | 54  | 48  | 44  | 53  | 47  | 44  | 52  | 47  | 43  | 42  |
| 10 | 64  | 52  | 46  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 49  | 44  | 41  | 39  |

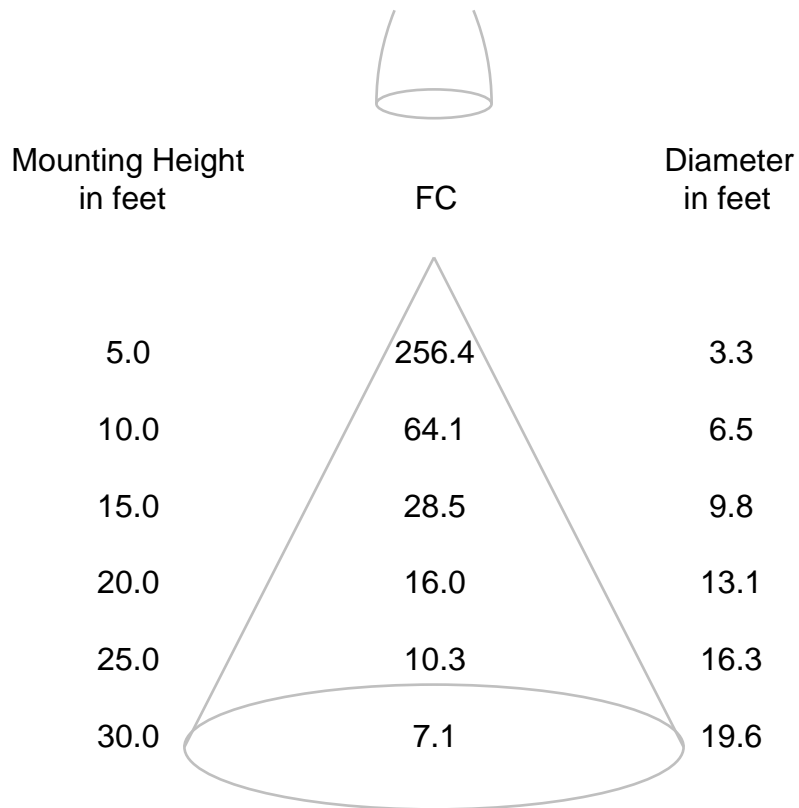
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.