

REPORT NUMBER: PRORATED FROM RAB02111

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ISSUE DATE: 07/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SK8XL10RDYN

LUMINAIRE: STAMPED STEEL CEILING PAN WITH WHITE FINISH, 7 LED BOARDS EACH WITH 6 LEDS, ACRYLIC DROP LENS WITH SMOOTH FINISH AND SILVER TRIM.

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

NOTE: THIS REPORT WAS PRORATED FROM RAB02111 WHICH WAS SK8XL10RDYY. ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS = 10.591 AT 120.0 VOLTS.

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

| DEG | CANDELA | LUMENS |
|-----|---------|--------|
| 0   | 310     |        |
| 5   | 309     | 29     |
| 15  | 297     | 84     |
| 25  | 273     | 126    |
| 35  | 239     | 150    |
| 45  | 199     | 153    |
| 55  | 154     | 138    |
| 65  | 109     | 108    |
| 75  | 65      | 69     |
| 85  | 30      | 34     |
| 90  | 19      |        |
| 95  | 11      | 13     |
| 105 | 6       | 6      |
| 115 | 7       | 7      |
| 125 | 10      | 9      |
| 135 | 12      | 9      |
| 145 | 13      | 8      |
| 155 | 16      | 7      |
| 165 | 16      | 4      |
| 175 | 10      | 1      |
| 180 | 2       |        |

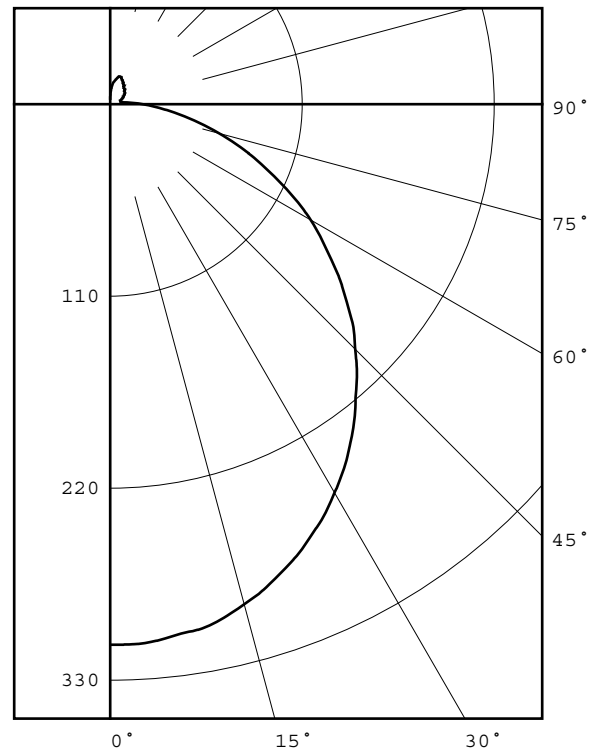
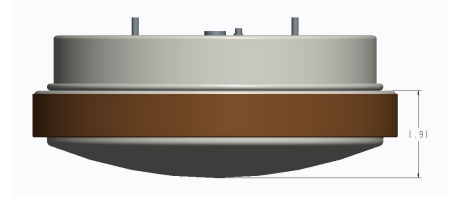
| ZONAL LUMEN ZONE | SUMMARY LUMENS | %FIXT |
|------------------|----------------|-------|
| 0- 30            | 239            | 25.0  |
| 0- 40            | 388            | 40.6  |
| 0- 60            | 680            | 71.2  |
| 0- 90            | 890            | 93.2  |
| 90-120           | 26             | 2.8   |
| 90-130           | 35             | 3.7   |
| 90-150           | 52             | 5.5   |
| 90-180           | 65             | 6.8   |
| 0-180            | 956            | 100.0 |

TOTAL INPUT WATTS = 10.591

EFFICACY = 90.3 Lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 1.2



|          |                      |
|----------|----------------------|
| Checked  | <u>X.CAO</u>         |
| Approved | <u>D.WANG-MUNSON</u> |

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## ADDITIONAL INFORMATION

LED DRIVER: RDD-MK015-MKP40-A0500  
TST PROCEDURE: IESNA LM 79-08  
TEST DISTANCE = 25.25 FEET

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LUMINOUS DIAMETER: 7.460  
HEIGHT OF SIDE : 1.910

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE

IN DEG

|    |       |
|----|-------|
| 45 | 7505. |
| 55 | 6505. |
| 65 | 5372. |
| 75 | 3990. |
| 85 | 2573. |

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### CANDELA DISTRIBUTION

|       |     |
|-------|-----|
|       | 0.0 |
| 0.0   | 310 |
| 5.0   | 309 |
| 10.0  | 305 |
| 15.0  | 297 |
| 20.0  | 286 |
| 25.0  | 273 |
| 30.0  | 257 |
| 35.0  | 239 |
| 40.0  | 219 |
| 45.0  | 199 |
| 50.0  | 177 |
| 55.0  | 154 |
| 60.0  | 133 |
| 65.0  | 109 |
| 70.0  | 86  |
| 75.0  | 65  |
| 80.0  | 45  |
| 85.0  | 30  |
| 90.0  | 19  |
| 95.0  | 11  |
| 100.0 | 6   |
| 105.0 | 6   |
| 110.0 | 6   |
| 115.0 | 7   |
| 120.0 | 8   |
| 125.0 | 10  |
| 130.0 | 11  |
| 135.0 | 12  |
| 140.0 | 12  |
| 145.0 | 13  |
| 150.0 | 14  |
| 155.0 | 16  |
| 160.0 | 17  |
| 165.0 | 16  |
| 170.0 | 13  |
| 175.0 | 10  |
| 180.0 | 2   |

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### ZONAL LUMEN SUMMARY

|         |     |
|---------|-----|
| 0- 5    | 7.  |
| 5- 10   | 22. |
| 10- 15  | 36. |
| 15- 20  | 48. |
| 20- 25  | 59. |
| 25- 30  | 67. |
| 30- 35  | 73. |
| 35- 40  | 76. |
| 40- 45  | 77. |
| 45- 50  | 76. |
| 50- 55  | 72. |
| 55- 60  | 66. |
| 60- 65  | 59. |
| 65- 70  | 49. |
| 70- 75  | 39. |
| 75- 80  | 29. |
| 80- 85  | 20. |
| 85- 90  | 13. |
| 90- 95  | 8.  |
| 95-100  | 5.  |
| 100-105 | 3.  |
| 105-110 | 3.  |
| 110-115 | 3.  |
| 115-120 | 4.  |
| 120-125 | 4.  |
| 125-130 | 5.  |
| 130-135 | 4.  |
| 135-140 | 4.  |
| 140-145 | 4.  |
| 145-150 | 4.  |
| 150-155 | 4.  |
| 155-160 | 3.  |
| 160-165 | 3.  |
| 165-170 | 2.  |
| 170-175 | 1.  |
| 175-180 | 0.  |

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### 5-DEGREE ZONAL LUMEN SUMMARY

|         |    |
|---------|----|
| 0- 5    | 7  |
| 5- 10   | 22 |
| 10- 15  | 36 |
| 15- 20  | 48 |
| 20- 25  | 59 |
| 25- 30  | 67 |
| 30- 35  | 73 |
| 35- 40  | 76 |
| 40- 45  | 77 |
| 45- 50  | 76 |
| 50- 55  | 72 |
| 55- 60  | 66 |
| 60- 65  | 59 |
| 65- 70  | 49 |
| 70- 75  | 39 |
| 75- 80  | 29 |
| 80- 85  | 20 |
| 85- 90  | 13 |
| 90- 95  | 8  |
| 95-100  | 5  |
| 100-105 | 3  |
| 105-110 | 3  |
| 110-115 | 3  |
| 115-120 | 4  |
| 120-125 | 4  |
| 125-130 | 5  |
| 130-135 | 4  |
| 135-140 | 4  |
| 140-145 | 4  |
| 145-150 | 4  |
| 150-155 | 4  |
| 155-160 | 3  |
| 160-165 | 3  |
| 165-170 | 2  |
| 170-175 | 1  |
| 175-180 | 0  |

### 10-DEGREE ZONAL LUMEN SUMMARY

|       |     |
|-------|-----|
| 0- 10 | 29  |
| 0- 20 | 113 |
| 0- 30 | 239 |
| 0- 40 | 388 |
| 0- 50 | 542 |
| 0- 60 | 680 |
| 0- 70 | 788 |
| 0- 80 | 857 |
| 0- 90 | 890 |
| 0-100 | 903 |
| 0-110 | 909 |
| 0-120 | 917 |
| 0-130 | 925 |
| 0-140 | 934 |
| 0-150 | 943 |
| 0-160 | 950 |
| 0-170 | 954 |
| 0-180 | 956 |

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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  | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1  | 106 | 101 | 97  | 93  | 103 | 98  | 94  | 91  | 93  | 90  | 86  | 88  | 85  | 83  | 83 | 81 | 79 | 76 |
| 2  | 97  | 88  | 81  | 75  | 93  | 86  | 79  | 74  | 81  | 76  | 71  | 77  | 72  | 68  | 73 | 69 | 66 | 63 |
| 3  | 88  | 77  | 69  | 62  | 85  | 75  | 67  | 61  | 71  | 65  | 59  | 67  | 62  | 57  | 64 | 59 | 56 | 53 |
| 4  | 80  | 68  | 59  | 53  | 78  | 67  | 58  | 52  | 63  | 56  | 50  | 60  | 54  | 49  | 57 | 52 | 48 | 45 |
| 5  | 74  | 61  | 52  | 45  | 71  | 59  | 51  | 45  | 57  | 49  | 44  | 54  | 47  | 42  | 51 | 46 | 41 | 39 |
| 6  | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 51  | 44  | 38  | 49  | 42  | 37  | 47 | 41 | 36 | 34 |
| 7  | 63  | 50  | 41  | 35  | 61  | 49  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 33  | 43 | 37 | 32 | 30 |
| 8  | 59  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 42  | 35  | 30  | 41  | 34  | 30  | 39 | 33 | 29 | 27 |
| 9  | 55  | 42  | 33  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 31  | 27  | 36 | 30 | 26 | 24 |
| 10 | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 33 | 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.