



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

## Photometric Indoor Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Catalog Number  
SR6-RCF615-4K  
Project Number  
10310836  
Test Number  
604501

Test Date

2014-05-01

Prepared By

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Derek Smarr, Technician

Approved By

*Zachary Mooney*

Zachary Mooney, Engineer Project Associate

The results contained in this report pertain only to the tested sample.  
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Luminaire Description: Aluminum heatsink, white plastic with frosted plastic lens, aluminum semi-specular outer reflector  
Catalog Number: SR6-RCF615-4K  
Lamp: 8 white LEDs  
Mounting: Recessed  
Ballast/Driver: One ISDM-A15-U

Luminaire



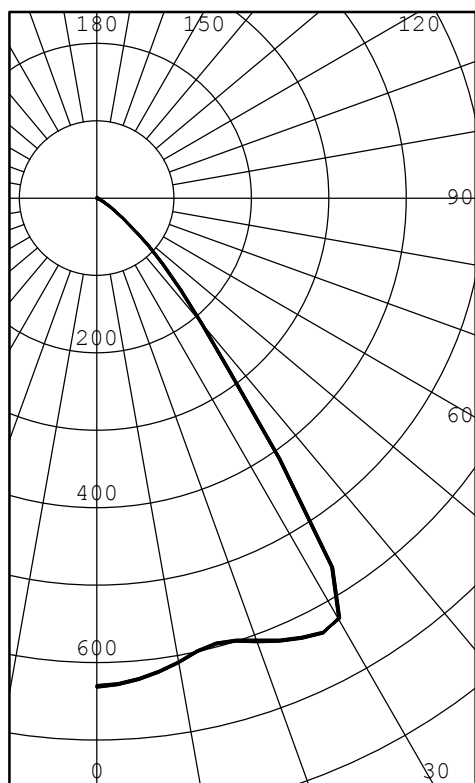
#### Test Conditions

|                   |           |
|-------------------|-----------|
| Test Temperature: | 24.9 °C   |
| Voltage:          | 120.0 VAC |
| Current:          | 0.1184 A  |
| Power:            | 14.14 W   |
| Power Factor:     | 0.995     |
| Frequency:        | 60 Hz     |
| Current THD:      | 3.26 %    |



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# INTENSITY (CANDLEPOWER) SUMMARY



| ANGLE | MEAN CP | LUMENS |
|-------|---------|--------|
| 0     | 631     |        |
| 5     | 624     | 60     |
| 10    | 609     |        |
| 15    | 596     | 170    |
| 20    | 609     |        |
| 25    | 627     | 289    |
| 30    | 627     |        |
| 35    | 412     | 256    |
| 40    | 210     |        |
| 45    | 121     | 96     |
| 50    | 63      |        |
| 55    | 29      | 29     |
| 60    | 14      |        |
| 65    | 7       | 8      |
| 70    | 4       |        |
| 75    | 2       | 2      |
| 80    | 0       |        |
| 85    | 0       | 0      |
| 90    | 0       |        |

## ZONAL LUMENS AND PERCENTAGES

| ZONE   | LUMENS | % LUMINAIRE |
|--------|--------|-------------|
| 0-30   | 519    | 57.05       |
| 0-40   | 775    | 85.22       |
| 0-60   | 900    | 98.94       |
| 0-90   | 910    | 100.00      |
| 40-90  | 134    | 14.78       |
| 60-90  | 10     | 1.06        |
| 90-180 | 0      | 0.00        |
| 0-180  | 910    | 100.00      |

EFFICACY (LUMENS PER WATT): 64.5

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS DIAMETER: 6.000 INS

## LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3  
SC: 1.1

| ANGLE | MEAN CD/SQ M |
|-------|--------------|
| 45    | 9441         |
| 55    | 2781         |
| 65    | 947          |
| 75    | 342          |
| 85    | 0            |

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

| ANGLE | INTENSITY<br>(CANDLEPOWER) | LUMENS |
|-------|----------------------------|--------|
| 0.0   | 631                        |        |
| 2.5   | 629                        |        |
| 5.0   | 624                        | 60     |
| 7.5   | 617                        |        |
| 10.0  | 609                        |        |
| 12.5  | 600                        |        |
| 15.0  | 596                        | 170    |
| 17.5  | 600                        |        |
| 20.0  | 609                        |        |
| 22.5  | 619                        |        |
| 25.0  | 627                        | 289    |
| 27.5  | 633                        |        |
| 30.0  | 627                        |        |
| 32.5  | 566                        |        |
| 35.0  | 412                        | 256    |
| 37.5  | 282                        |        |
| 40.0  | 210                        |        |
| 42.5  | 160                        |        |
| 45.0  | 121                        | 96     |
| 47.5  | 89                         |        |
| 50.0  | 63                         |        |
| 52.5  | 42                         |        |
| 55.0  | 29                         | 29     |
| 57.5  | 20                         |        |
| 60.0  | 14                         |        |
| 62.5  | 10                         |        |
| 65.0  | 7                          | 8      |
| 67.5  | 5                          |        |
| 70.0  | 4                          |        |
| 72.5  | 2                          |        |
| 75.0  | 2                          | 2      |
| 77.5  | 1                          |        |
| 80.0  | 0                          |        |
| 82.5  | 0                          |        |
| 85.0  | 0                          | 0      |
| 87.5  | 0                          |        |
| 90.0  | 0                          |        |



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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC<br>WALL | 90    |       |       |      | 80    |       |       |      | 70    |       |       |      | 50    |       |      |       | 30    |      |       |       | 10   |      |    |    | 0 |
|------------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|------|----|----|---|
|            | 70    | 50    | 30    | 10   | 70    | 50    | 30    | 10   | 70    | 50    | 30    | 10   | 50    | 30    | 10   | 50    | 30    | 10   | 50    | 30    | 10   | 50   | 30 | 10 | 0 |
| RCR        |       |       |       |      |       |       |       |      |       |       |       |      |       |       |      |       |       |      |       |       |      |      |    |    |   |
| 0          | 1.221 | 1.221 | 1.221 | 1.22 | 1.191 | 1.191 | 1.191 | 1.19 | 1.161 | 1.161 | 1.161 | 1.16 | 1.111 | 1.111 | 1.11 | 1.061 | 1.061 | 1.06 | 1.021 | 1.021 | 1.02 | 1.00 |    |    |   |
| 1          | 1.161 | 1.131 | 1.101 | 1.08 | 1.141 | 1.111 | 1.081 | 1.06 | 1.111 | 1.091 | 1.071 | 1.05 | 1.051 | 1.031 | 1.01 | 1.011 | 1.000 | 0.98 | 0.980 | 0.960 | 0.95 | 0.94 |    |    |   |
| 2          | 1.101 | 1.061 | 1.020 | 0.98 | 1.081 | 1.041 | 1.000 | 0.96 | 1.061 | 1.020 | 0.980 | 0.95 | 0.990 | 0.960 | 0.93 | 0.960 | 0.940 | 0.91 | 0.930 | 0.910 | 0.89 | 0.88 |    |    |   |
| 3          | 1.050 | 0.980 | 0.930 | 0.89 | 1.030 | 0.970 | 0.920 | 0.88 | 1.010 | 0.950 | 0.910 | 0.88 | 0.930 | 0.890 | 0.86 | 0.900 | 0.880 | 0.85 | 0.880 | 0.860 | 0.84 | 0.82 |    |    |   |
| 4          | 1.000 | 0.920 | 0.860 | 0.82 | 0.980 | 0.910 | 0.850 | 0.81 | 0.960 | 0.900 | 0.850 | 0.81 | 0.870 | 0.830 | 0.80 | 0.850 | 0.820 | 0.79 | 0.840 | 0.810 | 0.78 | 0.77 |    |    |   |
| 5          | 0.950 | 0.860 | 0.790 | 0.75 | 0.930 | 0.850 | 0.790 | 0.75 | 0.910 | 0.840 | 0.780 | 0.74 | 0.820 | 0.770 | 0.74 | 0.800 | 0.760 | 0.73 | 0.790 | 0.750 | 0.72 | 0.71 |    |    |   |
| 6          | 0.900 | 0.800 | 0.740 | 0.70 | 0.880 | 0.790 | 0.730 | 0.69 | 0.870 | 0.780 | 0.730 | 0.69 | 0.770 | 0.720 | 0.68 | 0.760 | 0.710 | 0.68 | 0.740 | 0.700 | 0.67 | 0.66 |    |    |   |
| 7          | 0.840 | 0.740 | 0.680 | 0.64 | 0.830 | 0.740 | 0.680 | 0.64 | 0.820 | 0.730 | 0.680 | 0.63 | 0.720 | 0.670 | 0.63 | 0.710 | 0.660 | 0.63 | 0.700 | 0.650 | 0.62 | 0.61 |    |    |   |
| 8          | 0.800 | 0.700 | 0.630 | 0.59 | 0.790 | 0.690 | 0.630 | 0.59 | 0.770 | 0.680 | 0.620 | 0.58 | 0.670 | 0.620 | 0.58 | 0.660 | 0.610 | 0.58 | 0.650 | 0.610 | 0.58 | 0.56 |    |    |   |
| 9          | 0.750 | 0.650 | 0.580 | 0.54 | 0.740 | 0.640 | 0.580 | 0.54 | 0.730 | 0.630 | 0.580 | 0.54 | 0.620 | 0.570 | 0.53 | 0.620 | 0.570 | 0.53 | 0.610 | 0.560 | 0.53 | 0.52 |    |    |   |
| 10         | 0.710 | 0.600 | 0.540 | 0.50 | 0.700 | 0.600 | 0.540 | 0.49 | 0.690 | 0.590 | 0.540 | 0.49 | 0.580 | 0.530 | 0.49 | 0.580 | 0.530 | 0.49 | 0.570 | 0.520 | 0.49 | 0.48 |    |    |   |

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
LUMINOUS OPENING OF LUMINAIRE.