



UL Verification Services
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Photometric Indoor Test Report

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

Prepared For
Maxlite Sk America, Inc
David Delgado
12 York Ave.
West Caldwell, NJ 07006-6411

Catalog Number
SKBO15GUDLED30 / SKBO15DLED30
Project Number
10049805
Test Number
285902

Test Date

2013-08-09

Prepared By

Jeff Smith Jr., Project Coordinator

Approved By

Zachary Mooney, Engineering Associate

The results contained in this report pertain only to the tested sample.
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Lamp Description: Aluminum heatsink / housing, frosted plastic enclosure with upper white plastic section
Catalog Number: SKBO15GUDLED30 / SKBO15DLED30
Lamp: One 15 watt LED omnidirectional lamp
Mounting: VBU

Lamp

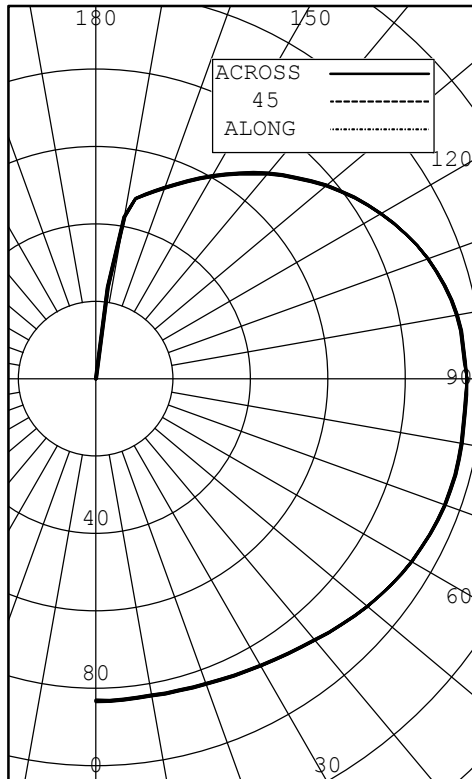


Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.3 °C |
| Voltage: | 120.0 VAC |
| Current: | 0.1250 A |
| Power: | 14.81 W |
| Power Factor: | 0.988 |
| Frequency: | 60 Hz |
| Current THD: | 7.11 % |



INTENSITY (CANDLEPOWER) SUMMARY



| ANGLE | MEAN CP | LMS. | ANGLE | MEAN CP | LMS. |
|-------|---------|------|-------|---------|------|
| 0 | 83 | | 90 | 96 | |
| 5 | 83 | 8 | 95 | 95 | 104 |
| 10 | 83 | | 100 | 95 | |
| 15 | 83 | 24 | 105 | 93 | 99 |
| 20 | 84 | | 110 | 91 | |
| 25 | 85 | 39 | 115 | 88 | 88 |
| 30 | 86 | | 120 | 85 | |
| 35 | 87 | 54 | 125 | 82 | 73 |
| 40 | 88 | | 130 | 78 | |
| 45 | 90 | 70 | 135 | 73 | 57 |
| 50 | 92 | | 140 | 69 | |
| 55 | 93 | 83 | 145 | 65 | 41 |
| 60 | 94 | | 150 | 60 | |
| 65 | 95 | 94 | 155 | 56 | 26 |
| 70 | 96 | | 160 | 53 | |
| 75 | 96 | 102 | 165 | 49 | 14 |
| 80 | 96 | | 170 | 43 | |
| 85 | 96 | 104 | 175 | 0 | 2 |
| 90 | 96 | | 180 | 0 | |

ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LUMINAIRE |
|--------|--------|-------------|
| 0-30 | 71 | 6.55 |
| 0-40 | 125 | 11.59 |
| 0-60 | 278 | 25.73 |
| 0-90 | 579 | 53.49 |
| 40-90 | 453 | 41.90 |
| 60-90 | 300 | 27.76 |
| 90-180 | 503 | 46.51 |
| 0-180 | 1082 | 100.00 |

EFFICACY (LUMENS PER WATT): 73.1

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS CONFOUR: 2.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.6
 SC: 1.6

| ANGLE | MEAN CD/SQ M |
|-------|--------------|
| 45 | ÁÁFÍÍÍG |
| 55 | ÁÁÁGFÍÍÍ |
| 65 | GHEÍ |
| 75 | GÍNGĜ |
| 85 | ĜĜeÍH |

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

| ANGLE | INTENSITY (CANDLEPOWER) | LUMENS |
|-------|----------------------------|--------|
| 0 | 83 | |
| 5 | 83 | 8 |
| 10 | 83 | |
| 15 | 83 | 24 |
| 20 | 84 | |
| 25 | 85 | 39 |
| 30 | 86 | |
| 35 | 87 | 54 |
| 40 | 88 | |
| 45 | 90 | 70 |
| 50 | 92 | |
| 55 | 93 | 83 |
| 60 | 94 | |
| 65 | 95 | 94 |
| 70 | 96 | |
| 75 | 96 | 102 |
| 80 | 96 | |
| 85 | 96 | 104 |
| 90 | 96 | |
| 95 | 95 | 104 |
| 100 | 95 | |
| 105 | 93 | 99 |
| 110 | 91 | |
| 115 | 88 | 88 |
| 120 | 85 | |
| 125 | 82 | 73 |
| 130 | 78 | |
| 135 | 73 | 57 |
| 140 | 69 | |
| 145 | 65 | 41 |
| 150 | 60 | |
| 155 | 56 | 26 |
| 160 | 53 | |
| 165 | 49 | 14 |
| 170 | 43 | |
| 175 | 0 | 2 |
| 180 | 0 | |



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC 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 | 1.61 | 1.61 | 1.61 | 1.16 | 1.08 | 1.08 | 1.08 | 1.08 | 1.00 | 1.00 | 1.00 | 1.00 | 0.85 | 0.85 | 0.85 | 0.72 | 0.72 | 0.72 | 0.59 | 0.59 | 0.59 | 0.53 | |
| | 1 | 1 | 1.02 | 0.95 | 0.89 | 0.84 | 0.94 | 0.88 | 0.83 | 0.78 | 0.87 | 0.81 | 0.76 | 0.71 | 0.68 | 0.65 | 0.61 | 0.57 | 0.54 | 0.51 | 0.46 | 0.43 | 0.42 | 0.36 | |
| | 2 | 0 | 0.91 | 0.80 | 0.72 | 0.64 | 0.84 | 0.74 | 0.67 | 0.60 | 0.77 | 0.69 | 0.61 | 0.55 | 0.57 | 0.52 | 0.47 | 0.47 | 0.43 | 0.39 | 0.38 | 0.35 | 0.32 | 0.27 | |
| | 3 | 0 | 0.82 | 0.69 | 0.59 | 0.51 | 0.76 | 0.64 | 0.55 | 0.48 | 0.69 | 0.59 | 0.51 | 0.44 | 0.49 | 0.43 | 0.38 | 0.40 | 0.36 | 0.31 | 0.32 | 0.28 | 0.25 | 0.21 | |
| | 4 | 0 | 0.75 | 0.60 | 0.50 | 0.43 | 0.69 | 0.56 | 0.47 | 0.40 | 0.63 | 0.52 | 0.43 | 0.37 | 0.43 | 0.37 | 0.31 | 0.35 | 0.30 | 0.26 | 0.28 | 0.24 | 0.21 | 0.17 | |
| | 5 | 0 | 0.68 | 0.52 | 0.43 | 0.35 | 0.63 | 0.49 | 0.40 | 0.33 | 0.57 | 0.45 | 0.37 | 0.31 | 0.38 | 0.31 | 0.26 | 0.31 | 0.26 | 0.22 | 0.25 | 0.21 | 0.17 | 0.14 | |
| | 6 | 0 | 0.62 | 0.47 | 0.37 | 0.30 | 0.57 | 0.44 | 0.34 | 0.28 | 0.52 | 0.40 | 0.32 | 0.26 | 0.34 | 0.27 | 0.22 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.14 | 0.11 | |
| | 7 | 0 | 0.57 | 0.42 | 0.32 | 0.26 | 0.53 | 0.39 | 0.30 | 0.24 | 0.48 | 0.36 | 0.28 | 0.22 | 0.30 | 0.23 | 0.19 | 0.25 | 0.19 | 0.15 | 0.20 | 0.15 | 0.12 | 0.09 | |
| | 8 | 0 | 0.53 | 0.38 | 0.28 | 0.22 | 0.48 | 0.35 | 0.26 | 0.20 | 0.44 | 0.32 | 0.24 | 0.19 | 0.27 | 0.21 | 0.16 | 0.22 | 0.17 | 0.13 | 0.18 | 0.14 | 0.11 | 0.08 | |
| | 9 | 0 | 0.49 | 0.34 | 0.25 | 0.19 | 0.45 | 0.32 | 0.23 | 0.18 | 0.41 | 0.29 | 0.22 | 0.16 | 0.25 | 0.18 | 0.14 | 0.20 | 0.15 | 0.12 | 0.16 | 0.12 | 0.09 | 0.07 | |
| | 10 | 0 | 0.45 | 0.31 | 0.22 | 0.17 | 0.42 | 0.29 | 0.21 | 0.16 | 0.38 | 0.26 | 0.19 | 0.14 | 0.22 | 0.16 | 0.12 | 0.18 | 0.13 | 0.10 | 0.15 | 0.11 | 0.08 | 0.06 | |

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.