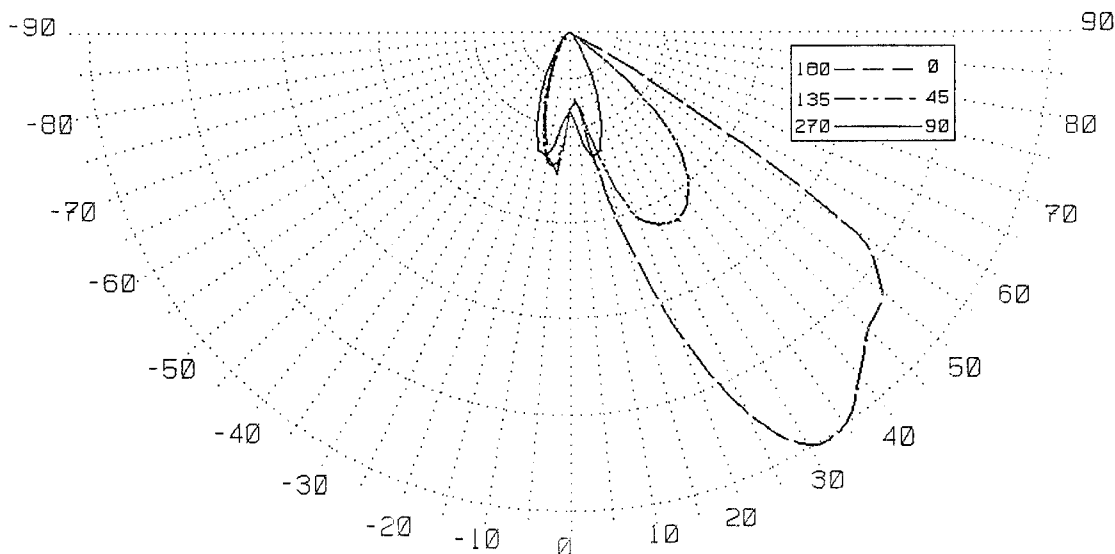


BALLABS CERTIFIED TEST REPORT NO.: 20391.0 DATE 05/17/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 45 TILT
ACRYLIC WIDE TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM
ADVANCE # XI025C070V054DSM5 @ 530mA
CATALOG NBR: 6AR-L20/835-DIM-UNV-O-W-OF-CS (45 DEG TILT)
LAMP TYPE : BXRE-35E2000

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



[Handwritten signature]



NVLAP LAB CODE 200921-0

| LUMEN SUMMARY | | | | | | | |
|-------------------|--------|-------|-------|--------|--------|-------|-------|
| ZONE | LUMENS | %LAMP | %FIXT | ZONE | LUMENS | %LAMP | %FIXT |
| 0- 30 | 639. | NA. | 34.2 | 90-120 | 0. | NA. | .0 |
| 0- 40 | 1105. | NA. | 59.2 | 90-130 | 0. | NA. | .0 |
| 0- 60 | 1864. | NA. | 99.9 | 90-150 | 0. | NA. | .0 |
| 0- 90 | 1866. | NA. | 100.0 | 90-180 | 0. | NA. | .0 |
| TOTAL LUMINAIRE = | | | | 0-180 | 1866. | NA. | 100.0 |

THIS BALLABS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THIS CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

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CANDLEPOWER DISTRIBUTION
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

| VERT | HORIZONTAL | | | | | | | | | | LUMENS | |
|------|------------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|-------|
| | .0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | FRONT | BACK | TOTAL |
| 0 | 460. | 460. | 460. | 460. | 460. | 460. | 460. | 460. | 460. | | | |
| 5 | 389. | 402. | 403. | 459. | 560. | 677. | 755. | 800. | 825. | 20.6 | 35.2 | 55.8 |
| 10 | 670. | 620. | 554. | 620. | 732. | 775. | 754. | 726. | 728. | | | |
| 15 | 1208. | 1079. | 837. | 762. | 697. | 607. | 552. | 518. | 518. | 130.5 | 79.7 | 210.1 |
| 20 | 1843. | 1679. | 1134. | 567. | 518. | 435. | 375. | 349. | 329. | | | |
| 25 | 2401. | 2229. | 1217. | 521. | 354. | 287. | 215. | 185. | 177. | 318.2 | 54.7 | 372.9 |
| 30 | 2728. | 2506. | 1244. | 372. | 219. | 151. | 116. | 97. | 92. | | | |
| 35 | 2749. | 2582. | 1187. | 247. | 127. | 84. | 61. | 55. | 53. | 444.3 | 21.9 | 466.2 |
| 40 | 2586. | 2542. | 1051. | 151. | 68. | 44. | 34. | 33. | 31. | | | |
| 45 | 2421. | 2434. | 831. | 80. | 32. | 23. | 20. | 20. | 20. | 486.7 | 8.3 | 495.0 |
| 50 | 2339. | 2233. | 433. | 27. | 17. | 13. | 12. | 11. | 13. | | | |
| 55 | 1994. | 1162. | 63. | 7. | 5. | 4. | 3. | 5. | 6. | 262.3 | 2.0 | 264.3 |
| 60 | 428. | 6. | 7. | 0. | 0. | 0. | 0. | 1. | 2. | | | |
| 65 | 27. | 7. | 0. | 0. | 0. | 0. | 0. | 0. | 1. | 1.7 | .0 | 1.7 |
| 70 | 4. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | |
| 75 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .0 | .0 | .0 |
| 80 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | |
| 85 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | .0 | .0 | .0 |
| 90 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | | | |

USE .500 FT. AS LENGTH AND .500 FT. AS WIDTH

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 ACRYLIC WIDE TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM
 ADVANCE # XI025C070V054DSM5 @ 530mA
 CATALOG NBR: 6AR-L20/835-DIM-UNV-O-W-OF-CS (45 DEG TILT)
 LAMP TYPE : BXRE-35E2000

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

| CEILING | .80 | | | | .70 | | | | .50 | | | | .30 | | | | .10 | | | | .00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| WALL | .70 | .50 | .30 | .10 | .70 | .50 | .30 | .10 | .50 | .30 | .10 | .50 | .30 | .10 | .50 | .30 | .10 | .50 | .30 | .10 | .00 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 | | | |
| 1 | 1.12 | 1.09 | 1.06 | 1.03 | 1.10 | 1.07 | 1.04 | 1.01 | 1.03 | 1.00 | .98 | .99 | .97 | .95 | .95 | .94 | .93 | .91 | | | |
| 2 | 1.05 | .99 | .94 | .90 | 1.03 | .98 | .93 | .89 | .94 | .91 | .87 | .91 | .88 | .85 | .88 | .86 | .84 | .82 | | | |
| 3 | .98 | .90 | .84 | .79 | .96 | .89 | .83 | .79 | .86 | .81 | .77 | .84 | .80 | .76 | .81 | .78 | .75 | .73 | | | |
| 4 | .91 | .82 | .75 | .70 | .89 | .81 | .74 | .69 | .78 | .73 | .68 | .76 | .71 | .67 | .74 | .70 | .67 | .65 | | | |
| 5 | .84 | .74 | .66 | .61 | .82 | .73 | .66 | .61 | .71 | .65 | .60 | .69 | .64 | .59 | .67 | .63 | .59 | .57 | | | |
| 6 | .78 | .67 | .59 | .54 | .76 | .66 | .59 | .53 | .64 | .58 | .53 | .62 | .57 | .53 | .61 | .56 | .52 | .50 | | | |
| 7 | .72 | .60 | .52 | .47 | .70 | .59 | .52 | .46 | .58 | .51 | .46 | .56 | .50 | .46 | .55 | .50 | .46 | .44 | | | |
| 8 | .66 | .53 | .45 | .40 | .64 | .53 | .45 | .40 | .51 | .45 | .40 | .50 | .44 | .40 | .49 | .43 | .39 | .38 | | | |
| 9 | .60 | .47 | .40 | .34 | .59 | .47 | .39 | .34 | .46 | .39 | .34 | .45 | .38 | .34 | .44 | .38 | .34 | .32 | | | |
| 10 | .55 | .43 | .35 | .30 | .54 | .42 | .35 | .30 | .41 | .34 | .30 | .40 | .34 | .30 | .39 | .34 | .30 | .28 | | | |

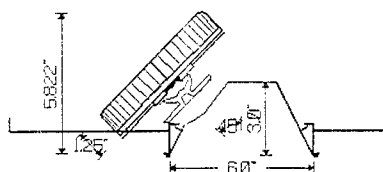
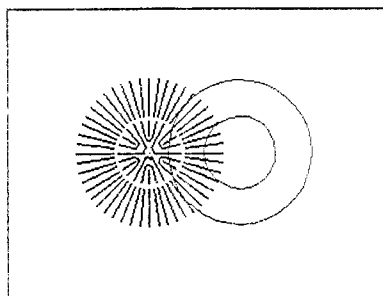
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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CATALOG NBR: 6AR-L20/835-DIM-UNV-O-W-OF-CS (45 DEG TILT)
LAMP TYPE : BXRE-35E2000

ELECTRICAL CHARACTERISTICS 120.01V .1793A 21.2310W

LUMINOUS EFFICACY (LUMENS / WATTS) = 87.9

TESTED IN ACCORDANCE WITH CURRENT IES STANDARDS
UTILIZING ABSOLUTE PHOTOMETRY PER LM-79-08



0 Degree Plane →

