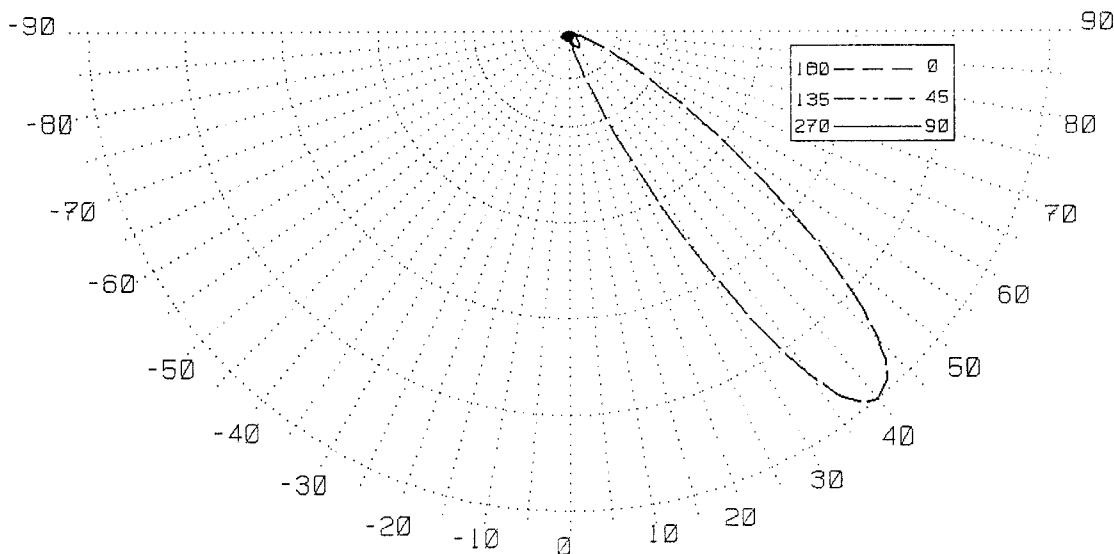


BALLABS CERTIFIED TEST REPORT NO.: 20406.0 DATE 05/17/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 45 TILT
ACRYLIC NARROW TIR OPTIC & 6"WHITE ASYM FLUSH TRIM w/SOLITE
LENS ADVANCE #XI025C070V054DSM5 @ 530mA
CATALOG NBR: 6AR-L20/835-DIM-UNV-L-N-OF-WH (45 DEG TILT)
LAMP TYPE : BXRE-35E2000

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



Handwritten signature

NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

| LUMEN SUMMARY | | | | | | | |
|-------------------|--------|-------|-------|--------|--------|-------|-------|
| ZONE | LUMENS | %LAMP | %FIXT | ZONE | LUMENS | %LAMP | %FIXT |
| 0- 30 | 254. | NA. | 14.3 | 90-120 | 0. | NA. | .0 |
| 0- 40 | 758. | NA. | 42.7 | 90-130 | 0. | NA. | .0 |
| 0- 60 | 1617. | NA. | 91.1 | 90-150 | 0. | NA. | .0 |
| 0- 90 | 1774. | NA. | 100.0 | 90-180 | 0. | NA. | .0 |
| TOTAL LUMINAIRE = | | | | 0-180 | 1774. | 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.

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

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CANDLEPOWER DISTRIBUTION
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

| | | HORIZONTAL | | | | | | | | LUMENS | | |
|------|-------|------------|------|------|------|-------|-------|-------|-------|--------|------|-------|
| VERT | .0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | FRONT | BACK | TOTAL |
| 0 | 149. | 149. | 149. | 149. | 149. | 149. | 149. | 149. | 149. | | | |
| 5 | 165. | 160. | 153. | 151. | 151. | 152. | 155. | 158. | 162. | 7.4 | 7.4 | 14.8 |
| 10 | 221. | 199. | 166. | 151. | 147. | 153. | 160. | 169. | 174. | | | |
| 15 | 401. | 325. | 196. | 152. | 145. | 152. | 162. | 170. | 177. | 33.8 | 22.8 | 56.6 |
| 20 | 943. | 581. | 240. | 149. | 138. | 147. | 160. | 168. | 173. | | | |
| 25 | 2303. | 1145. | 288. | 140. | 126. | 140. | 151. | 156. | 160. | 148.8 | 34.3 | 183.0 |
| 30 | 4782. | 2000. | 332. | 132. | 119. | 134. | 145. | 147. | 151. | | | |
| 35 | 7666. | 2814. | 348. | 123. | 116. | 127. | 134. | 143. | 148. | 461.4 | 42.4 | 503.8 |
| 40 | 8825. | 3084. | 321. | 106. | 103. | 116. | 127. | 142. | 152. | | | |
| 45 | 8031. | 2616. | 258. | 92. | 92. | 104. | 125. | 143. | 156. | 524.3 | 47.8 | 572.0 |
| 50 | 5797. | 1768. | 190. | 73. | 74. | 92. | 119. | 143. | 156. | | | |
| 55 | 3383. | 1006. | 130. | 57. | 61. | 81. | 112. | 134. | 148. | 238.6 | 48.1 | 286.6 |
| 60 | 1699. | 534. | 90. | 45. | 48. | 66. | 95. | 119. | 134. | | | |
| 65 | 797. | 262. | 66. | 36. | 36. | 52. | 79. | 103. | 116. | 74.1 | 38.4 | 112.5 |
| 70 | 288. | 129. | 47. | 27. | 26. | 39. | 61. | 82. | 92. | | | |
| 75 | 114. | 65. | 29. | 17. | 17. | 27. | 42. | 57. | 69. | 21.6 | 22.3 | 44.0 |
| 80 | 42. | 26. | 13. | 6. | 8. | 13. | 22. | 31. | 39. | | | |
| 85 | 3. | 0. | 0. | 0. | 0. | 0. | 1. | 4. | 8. | .0 | 1.1 | 1.1 |
| 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 NARROW TIR OPTIC & 6"WHITE ASYM FLUSH TRIM w/SOLITE
 LENS ADVANCE #XI025C070V054DSM5 @ 530mA
 CATALOG NBR: 6AR-L20/835-DIM-UNV-L-N-OF-WH (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 | .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 | 1.11 | 1.07 | 1.03 | 1.00 | 1.08 | 1.05 | 1.01 | .98 | 1.00 | .98 | .95 | .97 | .94 | .92 | .93 | .91 | .90 | .88 |
| 2 | 1.02 | .95 | .89 | .84 | 1.00 | .93 | .88 | .83 | .90 | .86 | .82 | .87 | .83 | .80 | .84 | .81 | .78 | .76 |
| 3 | .94 | .85 | .77 | .71 | .92 | .83 | .76 | .71 | .80 | .74 | .70 | .77 | .73 | .68 | .75 | .71 | .67 | .65 |
| 4 | .86 | .75 | .67 | .61 | .84 | .74 | .66 | .60 | .71 | .65 | .59 | .69 | .63 | .59 | .67 | .62 | .58 | .56 |
| 5 | .78 | .66 | .57 | .51 | .76 | .65 | .57 | .50 | .63 | .55 | .50 | .61 | .54 | .49 | .59 | .53 | .49 | .47 |
| 6 | .71 | .58 | .49 | .43 | .69 | .57 | .49 | .43 | .55 | .48 | .42 | .53 | .47 | .42 | .52 | .46 | .41 | .39 |
| 7 | .64 | .51 | .42 | .36 | .63 | .50 | .41 | .35 | .48 | .41 | .35 | .47 | .40 | .35 | .45 | .39 | .35 | .33 |
| 8 | .58 | .44 | .35 | .29 | .56 | .43 | .35 | .29 | .42 | .34 | .29 | .40 | .33 | .28 | .39 | .33 | .28 | .26 |
| 9 | .52 | .38 | .29 | .23 | .51 | .37 | .29 | .23 | .36 | .28 | .23 | .35 | .28 | .23 | .34 | .27 | .23 | .21 |
| 10 | .48 | .33 | .25 | .19 | .46 | .33 | .25 | .19 | .32 | .24 | .19 | .31 | .24 | .19 | .30 | .23 | .19 | .17 |

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 45 TILT
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LENS ADVANCE #XI025C070V054DSM5 @ 530mA
CATALOG NBR: 6AR-L20/835-DIM-UNV-L-N-OF-WH (45 DEG TILT)
LAMP TYPE : BXRE-35E2000

ELECTRICAL CHARACTERISTICS 119.97V .1793A 21.2310W

LUMINOUS EFFICACY (LUMENS / WATTS) = 83.6

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

