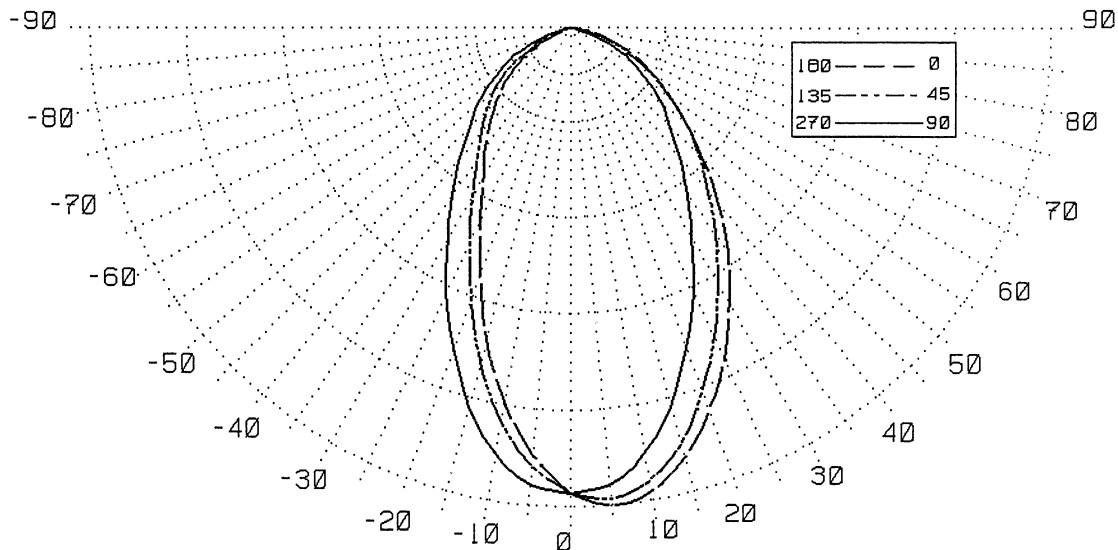


BALLABS CERTIFIED TEST REPORT NO.: 20360.0 DATE 04/25/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT
WHITE MIXING CHAMBER & 6"CAST WHITE WALLWASH TRIM w/DIFFUSE
ACRYLIC LENS ADVANCE #XI025C070V054DSM1 @ 560mA
CATALOG NBR: 6DS-L20/835-DIM-UNV-L-WW-OF-WH-DAL
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 | 575. | NA. | 41.7 | 90-120 | 0. | NA. | .0 |
| 0- 40 | 835. | NA. | 60.6 | 90-130 | 0. | NA. | .0 |
| 0- 60 | 1236. | NA. | 89.6 | 90-150 | 0. | NA. | .0 |
| 0- 90 | 1379. | NA. | 100.0 | 90-180 | 0. | NA. | .0 |
| TOTAL LUMINAIRE = | | | | 0-180 | 1379. | 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

| VERT | HORIZONTAL | | | | | | | | | LUMENS | | |
|------|------------|------|------|------|------|-------|-------|-------|-------|--------|-------|-------|
| | .0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | FRONT | BACK | TOTAL |
| 0 | 927. | 927. | 927. | 927. | 927. | 927. | 927. | 927. | 927. | | | |
| 5 | 956. | 949. | 942. | 930. | 913. | 894. | 876. | 863. | 854. | 44.9 | 41.9 | 86.8 |
| 10 | 938. | 933. | 915. | 890. | 863. | 827. | 797. | 773. | 759. | | | |
| 15 | 887. | 882. | 861. | 821. | 782. | 734. | 694. | 660. | 645. | 120.7 | 98.8 | 219.5 |
| 20 | 815. | 798. | 774. | 732. | 680. | 629. | 578. | 541. | 525. | | | |
| 25 | 731. | 718. | 684. | 637. | 586. | 527. | 474. | 438. | 422. | 156.8 | 111.7 | 268.4 |
| 30 | 638. | 624. | 592. | 542. | 489. | 438. | 390. | 356. | 345. | | | |
| 35 | 551. | 539. | 509. | 457. | 412. | 363. | 323. | 301. | 296. | 156.4 | 104.3 | 260.7 |
| 40 | 464. | 461. | 432. | 385. | 343. | 308. | 276. | 251. | 247. | | | |
| 45 | 378. | 376. | 365. | 323. | 283. | 261. | 234. | 210. | 207. | 135.3 | 91.2 | 226.5 |
| 50 | 304. | 306. | 305. | 270. | 240. | 214. | 197. | 174. | 167. | | | |
| 55 | 247. | 246. | 241. | 222. | 194. | 176. | 156. | 134. | 127. | 104.9 | 69.6 | 174.5 |
| 60 | 197. | 195. | 192. | 174. | 152. | 134. | 111. | 90. | 79. | | | |
| 65 | 152. | 149. | 143. | 130. | 112. | 93. | 69. | 45. | 32. | 69.2 | 34.3 | 103.5 |
| 70 | 110. | 105. | 99. | 89. | 64. | 50. | 25. | 17. | 14. | | | |
| 75 | 72. | 69. | 62. | 48. | 36. | 18. | 8. | 7. | 8. | 30.7 | 6.7 | 37.4 |
| 80 | 38. | 33. | 31. | 21. | 13. | 2. | 3. | 0. | 1. | | | |
| 85 | 11. | 6. | 5. | 1. | 0. | 0. | 0. | 0. | 0. | 2.0 | .0 | 2.0 |
| 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 LENS ADVANCE #XI025C070V054DSM1 @ 560mA
 CATALOG NBR: 6DS-L20/835-DIM-UNV-L-WW-OF-WH-DAL
 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 | 1.12 | 1.08 | 1.05 | 1.02 | 1.09 | 1.06 | 1.03 | 1.00 | 1.02 | 1.00 | .97 | .98 | .96 | .94 | .95 | .93 | .92 | .90 | | | | | |
| 2 | 1.04 | .98 | .93 | .88 | 1.02 | .96 | .91 | .87 | .93 | .89 | .85 | .90 | .86 | .83 | .87 | .84 | .82 | .80 | | | | | |
| 3 | .97 | .89 | .82 | .77 | .95 | .87 | .81 | .76 | .84 | .79 | .75 | .82 | .78 | .74 | .79 | .76 | .73 | .71 | | | | | |
| 4 | .90 | .80 | .73 | .68 | .88 | .79 | .72 | .67 | .77 | .71 | .66 | .75 | .70 | .66 | .73 | .68 | .65 | .63 | | | | | |
| 5 | .83 | .73 | .65 | .59 | .82 | .72 | .64 | .59 | .70 | .63 | .59 | .68 | .62 | .58 | .66 | .61 | .57 | .56 | | | | | |
| 6 | .78 | .66 | .59 | .53 | .76 | .65 | .58 | .53 | .64 | .57 | .53 | .62 | .56 | .52 | .61 | .56 | .52 | .50 | | | | | |
| 7 | .72 | .61 | .53 | .48 | .71 | .60 | .53 | .47 | .58 | .52 | .47 | .57 | .51 | .47 | .56 | .50 | .46 | .45 | | | | | |
| 8 | .67 | .55 | .48 | .42 | .66 | .54 | .47 | .42 | .53 | .47 | .42 | .52 | .46 | .42 | .51 | .46 | .42 | .40 | | | | | |
| 9 | .62 | .50 | .43 | .38 | .61 | .50 | .42 | .38 | .48 | .42 | .37 | .47 | .41 | .37 | .46 | .41 | .37 | .35 | | | | | |
| 10 | .58 | .46 | .39 | .34 | .57 | .46 | .39 | .34 | .45 | .38 | .34 | .44 | .38 | .34 | .43 | .37 | .33 | .32 | | | | | |

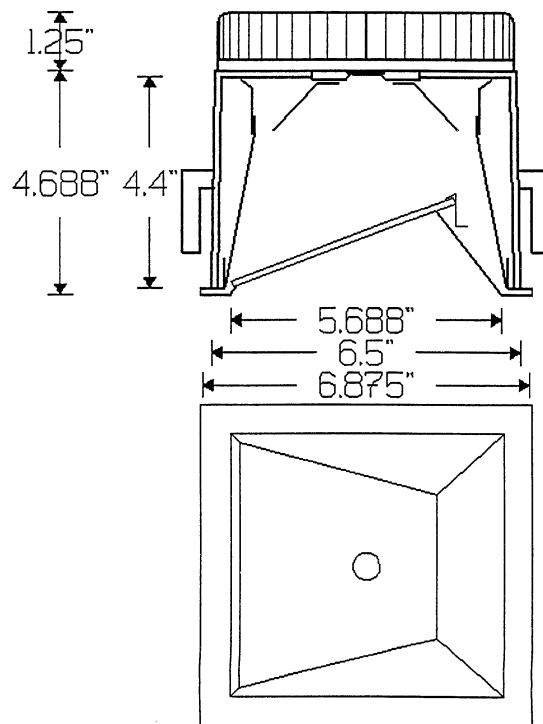
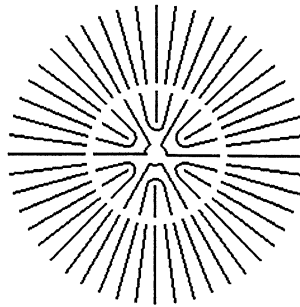
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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CATALOG NBR: 6DS-L20/835-DIM-UNV-L-WW-OF-WH-DAL
LAMP TYPE : BXRE-35E2000

ELECTRICAL CHARACTERISTICS 119.88V .1894A 22.4590W

LUMINOUS EFFICACY (LUMENS / WATTS) = 61.4

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



Ø Degree Plane →