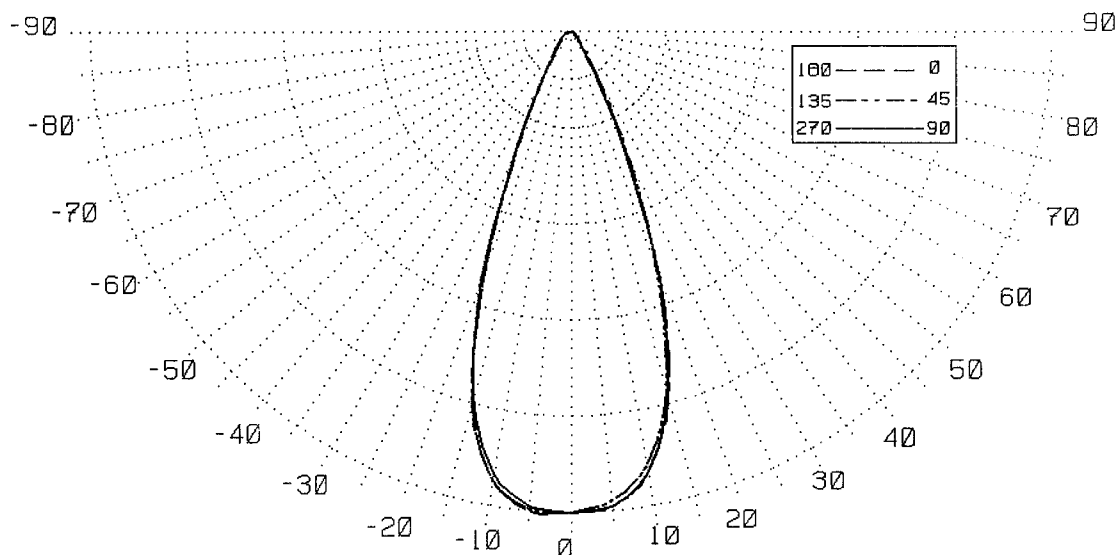


BALLABS CERTIFIED TEST REPORT NO.: 20481.0 DATE 05/10/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V18 LED 4" TALL HEATSINK 4" RND ADJ DOWNLIGHT @ 0 TILT  
ACRYLIC WIDE TIR OPTIC & 4" ASYM FLUSH TRIM w/SOLITE LENS  
ADVANCE # XI050C140V054DSM5 @ 1220mA  
CATALOG NBR: 4AR-L40/835-DIM-UNV-L-W-OF-WH (0 DEGREE TILT)  
LAMP TYPE : BXRE-35E4000

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



NVLAP LAB CODE 200921-0

| LUMEN SUMMARY     |        |       |       |        |        |       |       |
|-------------------|--------|-------|-------|--------|--------|-------|-------|
| ZONE              | LUMENS | %LAMP | %FIXT | ZONE   | LUMENS | %LAMP | %FIXT |
| 0- 30             | 2360.  | NA.   | 84.6  | 90-120 | 0.     | NA.   | .0    |
| 0- 40             | 2548.  | NA.   | 91.4  | 90-130 | 0.     | NA.   | .0    |
| 0- 60             | 2717.  | NA.   | 97.5  | 90-150 | 0.     | NA.   | .0    |
| 0- 90             | 2788.  | NA.   | 100.0 | 90-180 | 0.     | NA.   | .0    |
| TOTAL LUMINAIRE = |        |       |       | 0-180  | 2788.  | 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 |       | TOTAL  |
|------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
|      | .0         | 22.5  | 45.0  | 67.5  | 90.0  | 112.5 | 135.0 | 157.5 | 180.0 | FRONT  | BACK  |        |
| 0    | 5297.      | 5297. | 5297. | 5297. | 5297. | 5297. | 5297. | 5297. | 5297. |        |       |        |
| 5    | 5244.      | 5203. | 5186. | 5201. | 5241. | 5254. | 5276. | 5285. | 5298. | 248.3  | 251.5 | 499.8  |
| 10   | 4945.      | 4849. | 4863. | 4904. | 4945. | 4986. | 5027. | 5018. | 5023. |        |       |        |
| 15   | 4197.      | 3993. | 4105. | 4268. | 4164. | 4188. | 4215. | 4381. | 4242. | 585.4  | 607.3 | 1192.7 |
| 20   | 2922.      | 2874. | 2808. | 2889. | 2898. | 2782. | 2762. | 2705. | 2777. |        |       |        |
| 25   | 1396.      | 1512. | 1592. | 1461. | 1427. | 1412. | 1368. | 1381. | 1373. | 344.1  | 323.2 | 667.2  |
| 30   | 720.       | 689.  | 658.  | 642.  | 614.  | 582.  | 601.  | 633.  | 638.  |        |       |        |
| 35   | 348.       | 301.  | 293.  | 267.  | 274.  | 293.  | 322.  | 339.  | 355.  | 89.3   | 99.2  | 188.5  |
| 40   | 185.       | 177.  | 157.  | 149.  | 159.  | 178.  | 198.  | 216.  | 224.  |        |       |        |
| 45   | 122.       | 114.  | 104.  | 109.  | 121.  | 135.  | 144.  | 156.  | 158.  | 43.1   | 56.3  | 99.4   |
| 50   | 91.        | 86.   | 82.   | 91.   | 98.   | 104.  | 111.  | 114.  | 115.  |        |       |        |
| 55   | 74.        | 72.   | 72.   | 75.   | 81.   | 83.   | 84.   | 81.   | 83.   | 32.9   | 36.8  | 69.7   |
| 60   | 61.        | 59.   | 60.   | 63.   | 62.   | 64.   | 64.   | 61.   | 63.   |        |       |        |
| 65   | 52.        | 48.   | 48.   | 48.   | 48.   | 48.   | 46.   | 46.   | 46.   | 23.9   | 23.3  | 47.1   |
| 70   | 40.        | 38.   | 35.   | 35.   | 35.   | 32.   | 32.   | 32.   | 32.   |        |       |        |
| 75   | 27.        | 25.   | 23.   | 22.   | 22.   | 20.   | 21.   | 20.   | 19.   | 12.4   | 10.5  | 22.9   |
| 80   | 15.        | 12.   | 12.   | 12.   | 11.   | 9.    | 8.    | 8.    | 8.    |        |       |        |
| 85   | 4.         | 2.    | 2.    | 0.    | 1.    | 0.    | 0.    | 0.    | 0.    | .6     | .0    | .6     |
| 90   | 0.         | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    | 0.    |        |       |        |

USE .333 FT. AS LENGTH AND .333 FT. AS WIDTH

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 CATALOG NBR: 4AR-L40/835-DIM-UNV-L-W-OF-WH (0 DEGREE TILT)  
 LAMP TYPE : BXRE-35E4000

# 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 | 1.00 | 1.00 | 1.00 |
| 1       | 1.14 | 1.12 | 1.10 | 1.08 | 1.12 | 1.10 | 1.08 | 1.06 | 1.06 | 1.04 | 1.03 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  | .96  | .96  | .96  |
| 2       | 1.09 | 1.05 | 1.01 | .98  | 1.07 | 1.03 | 1.00 | .97  | 1.00 | .97  | .95  | .97  | .95  | .93  | .95  | .93  | .91  | .90  | .90  | .90  | .90  |
| 3       | 1.05 | .99  | .95  | .92  | 1.03 | .98  | .94  | .91  | .95  | .92  | .89  | .93  | .90  | .88  | .91  | .89  | .87  | .85  | .85  | .85  | .85  |
| 4       | 1.00 | .94  | .89  | .85  | .99  | .93  | .88  | .85  | .91  | .87  | .84  | .89  | .86  | .83  | .87  | .84  | .82  | .81  | .81  | .81  | .81  |
| 5       | .96  | .89  | .84  | .80  | .95  | .88  | .83  | .80  | .86  | .82  | .79  | .85  | .81  | .78  | .83  | .80  | .78  | .76  | .76  | .76  | .76  |
| 6       | .93  | .85  | .80  | .76  | .91  | .84  | .79  | .76  | .83  | .79  | .75  | .81  | .78  | .75  | .80  | .77  | .74  | .73  | .73  | .73  | .73  |
| 7       | .89  | .81  | .76  | .72  | .88  | .80  | .76  | .72  | .79  | .75  | .72  | .78  | .74  | .71  | .77  | .74  | .71  | .70  | .70  | .70  | .70  |
| 8       | .85  | .77  | .72  | .69  | .84  | .77  | .72  | .69  | .76  | .71  | .68  | .75  | .71  | .68  | .74  | .70  | .68  | .66  | .66  | .66  | .66  |
| 9       | .82  | .73  | .68  | .65  | .81  | .73  | .68  | .65  | .72  | .68  | .65  | .71  | .67  | .64  | .70  | .67  | .64  | .63  | .63  | .63  | .63  |
| 10      | .78  | .70  | .65  | .61  | .77  | .69  | .64  | .61  | .69  | .64  | .61  | .68  | .64  | .61  | .67  | .63  | .61  | .60  | .60  | .60  | .60  |

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

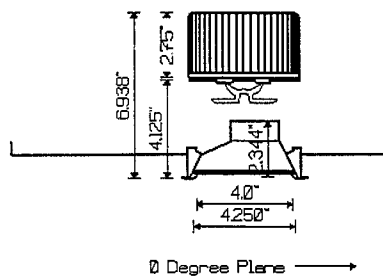
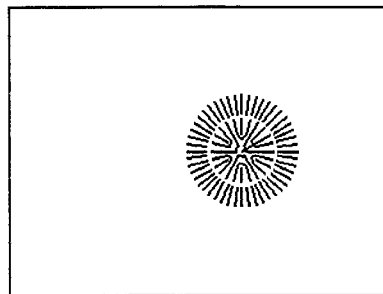
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ELECTRICAL CHARACTERISTICS 119.99V .4067A 48.6500W

LUMINOUS EFFICACY (LUMENS / WATTS) = 57.3

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



0 Degree Plane →

