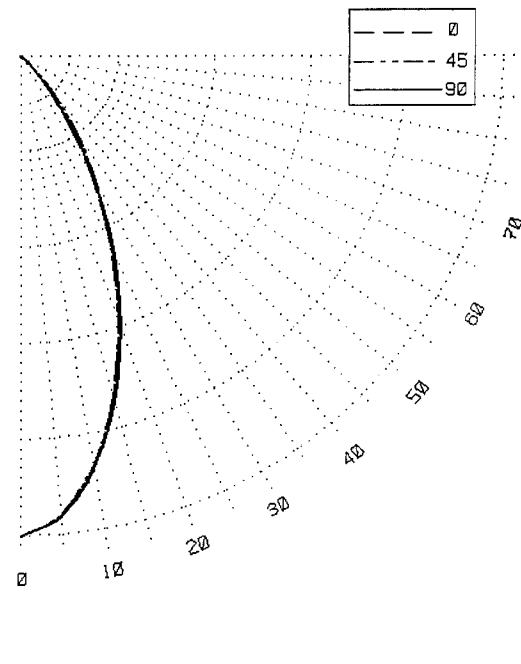


BALLABS CERTIFIED TEST REPORT NO.: 20334.0 DATE 04/23/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V22 LED 4" TALL HEATSINK 4" SQ CAST HOUSING DOWNLIGHT  
ACRYLIC MED TIR OPTIC & 4" ALUM SEMI-SPEC TRIM w/FROST FILM  
ADVANCE #XI050C140V054DSM5 @ 1195mA  
CATALOG NBR: 4DS-L40/835-DIM-UNV-O-M-OF-CS  
LAMP TYPE : BXRE-35E6500

## CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	6071.	6071.	6071.	6071.	6071.	
5	5853.	5842.	5828.	5834.	5851.	557.4
10	5296.	5291.	5272.	5284.	5315.	
15	4488.	4478.	4481.	4485.	4545.	1272.7
20	3628.	3596.	3581.	3592.	3682.	
25	2702.	2717.	2690.	2739.	2794.	1260.6
30	1820.	1860.	1937.	1886.	1894.	
35	1078.	1131.	1285.	1174.	1103.	735.1
40	504.	589.	734.	610.	518.	
45	199.	248.	372.	257.	198.	208.3
50	59.	78.	122.	81.	57.	
55	19.	22.	33.	22.	18.	21.2
60	2.	3.	6.	3.	1.	
65	0.	1.	2.	0.	0.	.8
70	0.	0.	2.	0.	0.	
75	0.	0.	0.	0.	0.	.0
80	0.	0.	0.	0.	0.	
85	0.	0.	0.	0.	0.	.0
90	0.	0.	0.	0.	0.	



*[Handwritten signature]*

**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	3091.	NA.	76.2	90-120	0.	NA.	.0
0- 40	3826.	NA.	94.3	90-130	0.	NA.	.0
0- 60	4055.	NA.	100.0	90-150	0.	NA.	.0
0- 90	4056.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180					4056.	NA.	100.0

IES SPACING CRITERIA: END= .7 DIAGONAL = .7 CROSS= .7

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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LUMINANCES-CD/SQ-M  
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	27052.	50601.	26912.
55	3110.	5530.	2938.
65	0.	469.	0.
75	0.	0.	0.
85	0.	0.	0.

\*\*MAXIMUM BRIGHTNESSES NOT MEASURED\*\*

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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	1.14	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	.95	
2	1.09	1.05	1.01	.98	1.07	1.03	1.00	.97	1.00	.97	.95	.97	.95	.93	.94	.93	.91	.89	
3	1.05	.99	.94	.91	1.03	.97	.93	.90	.95	.91	.89	.93	.90	.87	.90	.88	.86	.85	
4	1.00	.93	.88	.84	.98	.92	.87	.84	.90	.86	.83	.88	.84	.82	.86	.83	.81	.79	
5	.95	.87	.82	.78	.94	.87	.82	.78	.85	.81	.77	.83	.79	.77	.82	.79	.76	.75	
6	.91	.83	.78	.74	.90	.82	.77	.74	.81	.76	.73	.79	.76	.73	.78	.75	.72	.71	
7	.87	.79	.73	.69	.86	.78	.73	.69	.77	.72	.69	.76	.71	.68	.74	.71	.68	.67	
8	.83	.74	.69	.65	.82	.73	.68	.65	.72	.68	.64	.71	.67	.64	.70	.67	.64	.63	
9	.78	.69	.64	.60	.77	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58	
10	.74	.65	.60	.56	.73	.65	.59	.56	.64	.59	.56	.63	.59	.56	.62	.58	.55	.54	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 119.99V .3786A 45.2780W

LUMINOUS EFFICACY (LUMENS / WATTS) = 89.6

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

