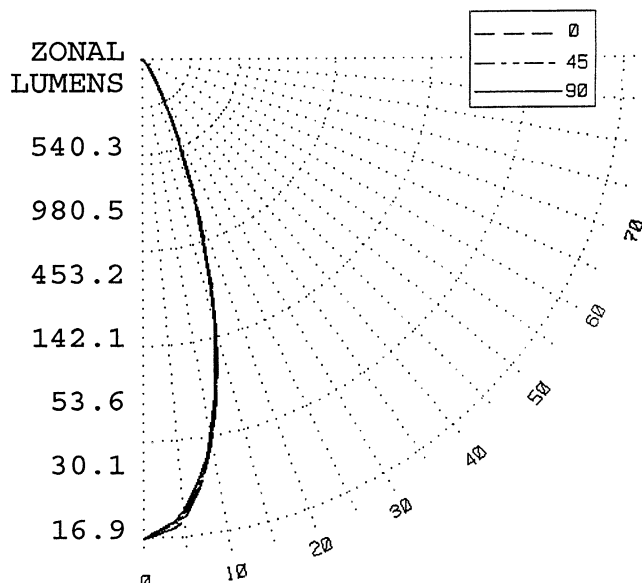


BALLABS CERTIFIED TEST REPORT NO.: 20323.0 DATE 04/23/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT
ACRYLIC MED DIST TIR OPTIC & 4"CAST WHITE REGRESS w/SOLITE
LENS ADVANCE #XI025C070V054DSM1 @ 625MA
CATALOG NBR: 4DS-L0/835-DIM-UNV-R-M-OF-WH
LAMP TYPE : BXRE-35E2000

CANDLEPOWER DISTRIBUTION						
VERT	HORIZONTAL ANGLE					
ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	5934.	5934.	5934.	5934.	5934.	
5	5723.	5677.	5656.	5634.	5624.	540.3
10	4854.	4872.	4831.	4826.	4775.	
15	3487.	3445.	3468.	3481.	3398.	980.5
20	1949.	1950.	2017.	2065.	1955.	
25	943.	952.	1008.	1004.	963.	453.2
30	423.	447.	492.	493.	465.	
35	188.	206.	255.	244.	209.	142.1
40	98.	105.	139.	125.	110.	
45	61.	64.	79.	71.	63.	53.6
50	45.	45.	49.	47.	44.	
55	34.	35.	35.	33.	32.	30.1
60	24.	24.	22.	23.	22.	
65	17.	17.	16.	17.	17.	16.9
70	8.	8.	7.	8.	7.	
75	4.	4.	3.	6.	3.	4.4
80	2.	2.	2.	3.	2.	
85	0.	0.	0.	0.	0.	.0
90	0.	0.	0.	0.	0.	



Handwritten signature

NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	1974.	NA.	88.9	90-120	0.	NA.	.0
0- 40	2116.	NA.	95.3	90-130	0.	NA.	.0
0- 60	2200.	NA.	99.0	90-150	0.	NA.	.0
0- 90	2221.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180					2221.	NA.	100.0

IES SPACING CRITERIA: END= .6 DIAGONAL = .6 CROSS= .5
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	8295.	10784.	8572.
55	5625.	5795.	5284.
65	3932.	3701.	3932.
75	1511.	1133.	1133.
85	0.	0.	0.

MAXIMUM BRIGHTNESSES NOT MEASURED

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	1.15	1.13	1.11	1.09	1.13	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	1.00	.99	.98	.97			
2	1.10	1.06	1.03	1.00	1.08	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.94	.93	.92			
3	1.06	1.01	.97	.94	1.05	1.00	.96	.93	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88			
4	1.02	.96	.92	.89	1.01	.95	.91	.88	.93	.90	.87	.91	.89	.86	.90	.87	.85	.84			
5	.98	.92	.87	.84	.97	.91	.87	.83	.89	.86	.83	.88	.85	.82	.86	.84	.81	.80			
6	.95	.88	.84	.80	.94	.88	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.77			
7	.92	.85	.80	.77	.91	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.74			
8	.89	.81	.77	.74	.88	.81	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.72	.71			
9	.85	.78	.73	.70	.85	.77	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68			
10	.82	.74	.70	.67	.81	.74	.70	.67	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : BXRE-35E2000

ELECTRICAL CHARACTERISTICS 119.97V .2099A 24.9840W

LUMINOUS EFFICACY (LUMENS / WATTS) = 88.9

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

