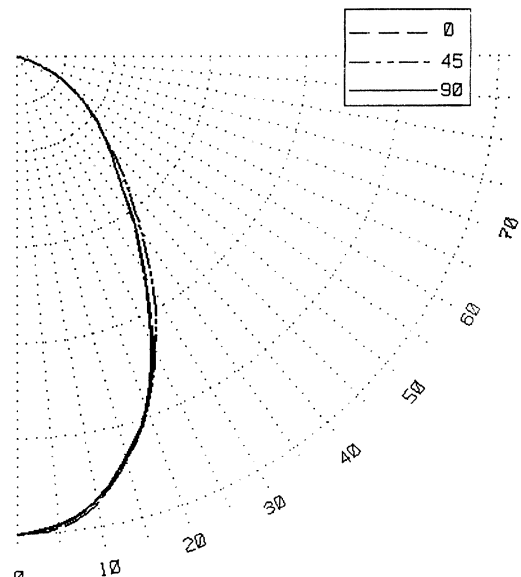


BALLABS CERTIFIED TEST REPORT NO.: 20358.0 DATE 04/24/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT  
WHITE MIXING CHAMBER & 6"CAST WHITE REGRESS TRIM w/DIFFUSE  
ACRYLIC LENS ADVANCE # XI025C070V054DSM1 @ 560mA  
CATALOG NBR: 6DS-L20/835-DIM-UNV-R-W-OF-WH-DAL  
LAMP TYPE : BXRE-35E2000

CANDLEPOWER DISTRIBUTION						
VERT	HORIZONTAL ANGLE					ZONAL
ANG	0	22.5	45	67.5	90	LUMENS
0	1224.	1224.	1224.	1224.	1224.	
5	1213.	1208.	1207.	1210.	1204.	115.4
10	1163.	1157.	1155.	1157.	1153.	
15	1071.	1069.	1070.	1068.	1064.	302.9
20	964.	954.	962.	955.	957.	
25	818.	823.	830.	821.	802.	379.9
30	647.	667.	695.	656.	650.	
35	512.	522.	551.	532.	516.	332.8
40	399.	416.	436.	410.	399.	
45	329.	341.	340.	335.	331.	260.7
50	273.	271.	268.	271.	266.	
55	215.	214.	215.	213.	211.	191.5
60	164.	163.	155.	161.	161.	
65	110.	111.	111.	111.	108.	109.8
70	60.	63.	63.	63.	61.	
75	26.	26.	27.	28.	26.	28.2
80	13.	14.	14.	14.	14.	
85	4.	5.	4.	4.	3.	4.9
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
0- 30	798.	NA.	46.2	90-120	0.	NA.
0- 40	1131.	NA.	65.5	90-130	0.	NA.
0- 60	1583.	NA.	91.7	90-150	0.	NA.
0- 90	1726.	NA.	100.0	90-180	0.	NA.
TOTAL LUMINAIRE = 0-180				1726.	NA.	100.0

IES SPACING CRITERIA: END= .9 DIAGONAL = .9 CROSS= .9

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		0	45	90
ANGLE				
45		19880.	20532.	20011.
55		15991.	15991.	15750.
65		11124.	11233.	10906.
75		4274.	4452.	4274.
85		2115.	2115.	1586.

\*\*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	1.12	1.09	1.06	1.03	1.10	1.07	1.04	1.01	1.02	1.00	.98	.99	.97	.95	.95	.94	.92	.91	
2	1.05	.99	.94	.90	1.03	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81	
3	.98	.90	.84	.79	.96	.89	.83	.78	.86	.81	.77	.83	.79	.76	.81	.78	.75	.73	
4	.92	.82	.75	.70	.90	.81	.75	.70	.79	.73	.69	.77	.72	.68	.75	.71	.67	.65	
5	.85	.75	.67	.62	.83	.74	.67	.62	.72	.66	.61	.70	.65	.61	.68	.64	.60	.58	
6	.80	.69	.61	.56	.78	.68	.61	.56	.66	.60	.55	.64	.59	.55	.63	.58	.54	.53	
7	.74	.63	.56	.50	.73	.62	.55	.50	.61	.54	.50	.59	.54	.50	.58	.53	.49	.48	
8	.69	.58	.50	.45	.68	.57	.50	.45	.56	.49	.45	.54	.49	.45	.53	.48	.44	.43	
9	.64	.53	.45	.40	.63	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.38	
10	.60	.48	.41	.37	.59	.48	.41	.37	.47	.41	.36	.46	.40	.36	.45	.40	.36	.35	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 120.01V .1892A 22.4570W

LUMINOUS EFFICACY (LUMENS / WATTS) = 76.9

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

