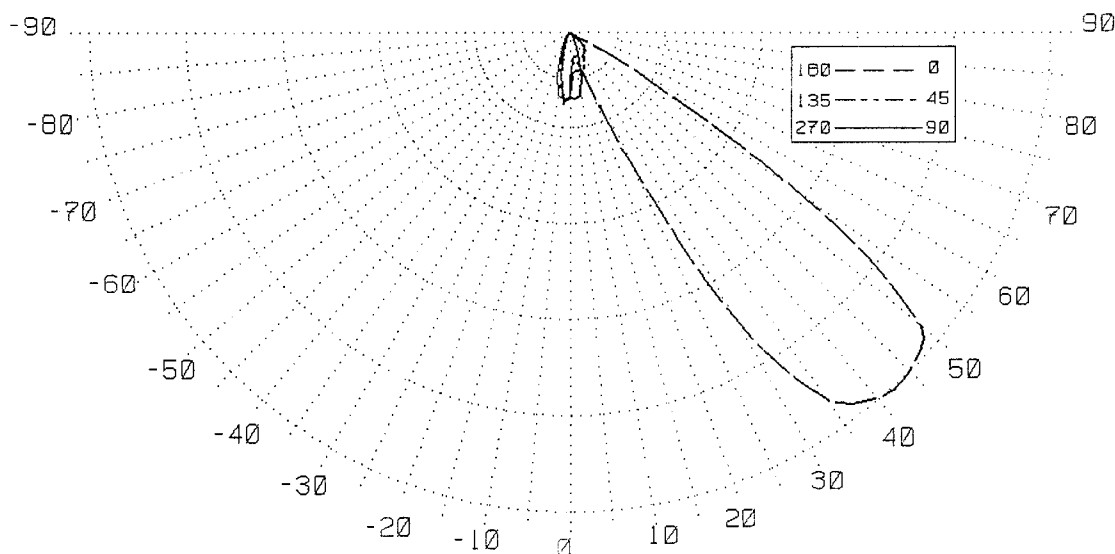


BALLABS CERTIFIED TEST REPORT NO.: 20394.0 DATE 05/17/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 45 TILT  
ACRYLIC MED TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM  
ADVANCE # XI025C070V054DSM5 @ 530mA  
CATALOG NBR: 6AR-L20/835-DIM-UNV-O-M-OF-CS (45 DEG TILT)  
LAMP TYPE : BXRE-35E2000

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



*[Handwritten signature]*

**NVLAP**<sup>®</sup>  
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	421.	NA.	21.1	90-120	0.	NA.	.0
0- 40	943.	NA.	47.4	90-130	0.	NA.	.0
0- 60	1986.	NA.	99.8	90-150	0.	NA.	.0
0- 90	1991.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	1991.	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	935.	935.	935.	935.	935.	935.	935.	935.	935.			
5	444.	479.	606.	800.	963.	1046.	1041.	998.	994.	30.5	48.8	79.3
10	361.	391.	568.	823.	930.	849.	729.	639.	638.			
15	480.	488.	630.	754.	658.	484.	392.	353.	353.	88.0	59.3	147.3
20	852.	697.	604.	494.	334.	261.	217.	203.	197.			
25	2055.	1135.	484.	268.	185.	155.	137.	118.	123.	162.3	31.7	194.0
30	4729.	1974.	404.	174.	117.	94.	80.	65.	64.			
35	6438.	3114.	372.	128.	73.	55.	39.	32.	30.	509.3	13.7	523.0
40	6876.	3937.	332.	89.	44.	23.	18.	17.	18.			
45	6915.	3952.	265.	57.	17.	8.	7.	7.	7.	776.1	2.8	779.0
50	6602.	2910.	175.	25.	4.	1.	2.	2.	2.			
55	4142.	1174.	61.	1.	0.	0.	0.	0.	0.	263.5	.0	263.5
60	1008.	161.	4.	0.	0.	0.	0.	0.	0.			
65	112.	19.	0.	0.	0.	0.	0.	0.	0.	4.7	.0	4.7
70	3.	0.	0.	0.	0.	0.	0.	0.	0.			
75	0.	0.	0.	0.	0.	0.	0.	0.	0.	.0	.0	.0
80	0.	0.	0.	0.	0.	0.	0.	0.	0.			
85	0.	0.	0.	0.	0.	0.	0.	0.	0.	.0	.0	.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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 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	1.01	1.02	1.00	.97	.98	.96	.95	.95	.93	.92	.90				
2	1.05	.98	.93	.89	1.02	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.81				
3	.97	.89	.82	.77	.95	.87	.81	.76	.84	.79	.75	.82	.78	.74	.80	.76	.73	.71				
4	.90	.80	.72	.67	.88	.78	.72	.67	.76	.70	.66	.74	.69	.65	.72	.68	.64	.62				
5	.82	.71	.63	.58	.80	.70	.63	.57	.68	.62	.57	.66	.61	.56	.65	.60	.56	.54				
6	.76	.64	.56	.50	.74	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.53	.48	.47				
7	.69	.56	.48	.42	.67	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39				
8	.62	.49	.41	.35	.61	.48	.41	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.33				
9	.56	.43	.35	.29	.55	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27				
10	.51	.38	.30	.25	.50	.37	.30	.25	.36	.29	.24	.35	.29	.24	.35	.29	.24	.22				

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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ELECTRICAL CHARACTERISTICS 119.99V .1794A 21.2380W

LUMINOUS EFFICACY (LUMENS / WATTS) = 93.8

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

