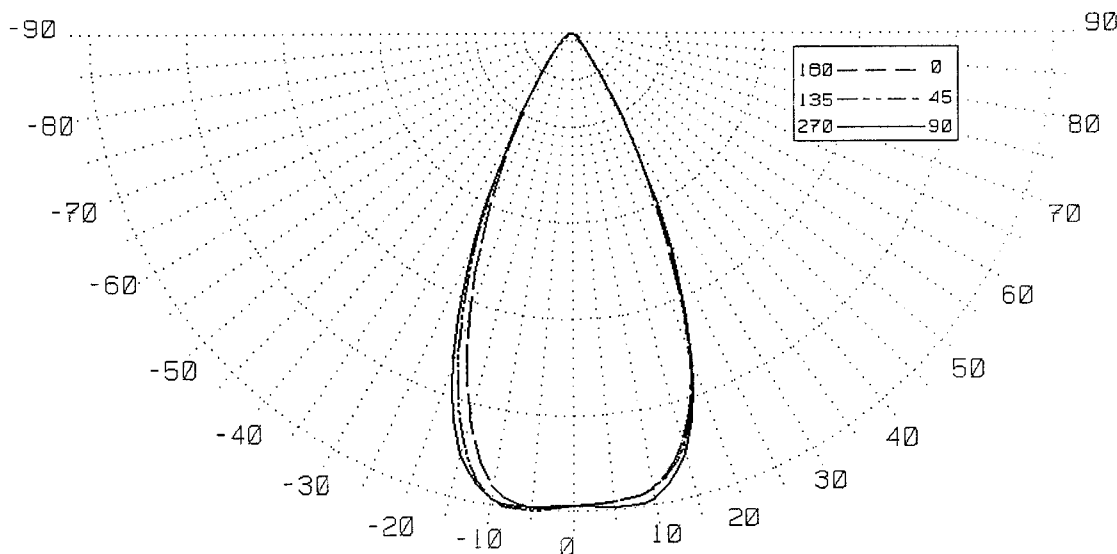


BALLABS CERTIFIED TEST REPORT NO.: 20407.0 DATE 05/23/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT  
ACRYLIC WIDE TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE  
LENS ADVANCE #XI025C070V054DSM5 @ 530mA  
CATALOG NBR: 6AR-L20/835-DIM-UNV-A-W-OF-WH (0 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	1221.	NA.	81.9	90-120	0.	NA.	.0
0- 40	1377.	NA.	92.3	90-130	0.	NA.	.0
0- 60	1461.	NA.	97.9	90-150	0.	NA.	.0
0- 90	1492.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	1492.	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.

BALLABS CERTIFIED TEST REPORT NO.: 20407.0 DATE 05/23/18  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT  
 ACRYLIC WIDE TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE  
 LENS ADVANCE #XI025C070V054DSM5 @ 530mA  
 CATALOG NBR: 6AR-L20/835-DIM-UNV-A-W-OF-WH (0 DEG TILT)  
 LAMP TYPE : BXRE-35E2000

CANDLEPOWER DISTRIBUTION  
 0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER

VERT	HORIZONTAL									LUMENS		
	.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FRONT	BACK	TOTAL
0	2144.	2144.	2144.	2144.	2144.	2144.	2144.	2144.	2144.			
5	2132.	2128.	2129.	2139.	2155.	2165.	2173.	2172.	2161.	101.8	103.5	205.3
10	2092.	2089.	2096.	2113.	2139.	2147.	2143.	2119.	2090.			
15	1922.	1943.	1944.	1957.	1975.	1966.	1919.	1866.	1797.	276.4	271.5	547.9
20	1568.	1583.	1575.	1584.	1581.	1587.	1506.	1438.	1366.			
25	982.	1025.	1033.	1051.	1044.	1052.	1002.	917.	880.	240.3	227.9	468.2
30	513.	520.	526.	534.	527.	530.	518.	503.	479.			
35	239.	253.	243.	240.	241.	249.	259.	248.	236.	77.4	77.9	155.4
40	111.	119.	122.	118.	122.	129.	134.	133.	131.			
45	54.	56.	58.	62.	67.	71.	76.	76.	71.	22.8	28.4	51.2
50	40.	42.	46.	50.	52.	51.	50.	47.	46.			
55	36.	37.	41.	44.	42.	37.	33.	29.	28.	18.1	14.8	32.9
60	35.	36.	38.	36.	31.	26.	20.	18.	16.			
65	31.	31.	31.	28.	22.	17.	12.	6.	5.	14.8	5.7	20.6
70	28.	27.	24.	20.	14.	9.	3.	3.	2.			
75	21.	20.	17.	10.	7.	3.	2.	3.	2.	8.0	1.7	9.7
80	12.	10.	9.	5.	1.	0.	0.	0.	0.			
85	3.	2.	0.	0.	0.	0.	0.	0.	0.	.6	.0	.6
90	0.	0.	0.	0.	0.	0.	0.	0.	0.			

USE .500 FT. AS LENGTH AND .500 FT. AS WIDTH

BALLABS CERTIFIED TEST REPORT NO.: 20407.0 DATE 05/23/18  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT  
 ACRYLIC WIDE TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE  
 LENS ADVANCE #XI025C070V054DSM5 @ 530mA  
 CATALOG NBR: 6AR-L20/835-DIM-UNV-A-W-OF-WH (0 DEG TILT)  
 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	1.14	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	.99	.97	1.00	.97	.94	.97	.94	.93	.94	.92	.91	.89			
3	1.04	.99	.94	.91	1.02	.97	.93	.90	.95	.91	.88	.92	.89	.87	.90	.88	.86	.84			
4	1.00	.93	.88	.84	.98	.92	.87	.83	.90	.86	.82	.88	.84	.82	.86	.83	.81	.79			
5	.95	.87	.82	.78	.94	.87	.82	.78	.85	.81	.77	.83	.79	.77	.82	.78	.76	.75			
6	.91	.83	.78	.74	.90	.82	.77	.74	.81	.77	.73	.80	.76	.73	.78	.75	.72	.71			
7	.87	.79	.74	.70	.86	.78	.73	.70	.77	.73	.69	.76	.72	.69	.75	.71	.69	.67			
8	.83	.75	.69	.66	.82	.74	.69	.66	.73	.69	.65	.72	.68	.65	.71	.68	.65	.64			
9	.79	.71	.65	.62	.78	.70	.65	.61	.69	.65	.61	.68	.64	.61	.67	.64	.61	.60			
10	.76	.67	.61	.58	.75	.66	.61	.58	.65	.61	.57	.65	.60	.57	.64	.60	.57	.56			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 20407.0 DATE 05/23/18  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT  
 ACRYLIC WIDE TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE  
 LENS ADVANCE #XI025C070V054DSM5 @ 530mA  
 CATALOG NBR: 6AR-L20/835-DIM-UNV-A-W-OF-WH (0 DEG TILT)  
 LAMP TYPE : BXRE-35E2000

\*\*\*\*\*

ELECTRICAL CHARACTERISTICS 119.99V .1796A 21.2660W

LUMINOUS EFFICACY (LUMENS / WATTS) = 70.1

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

