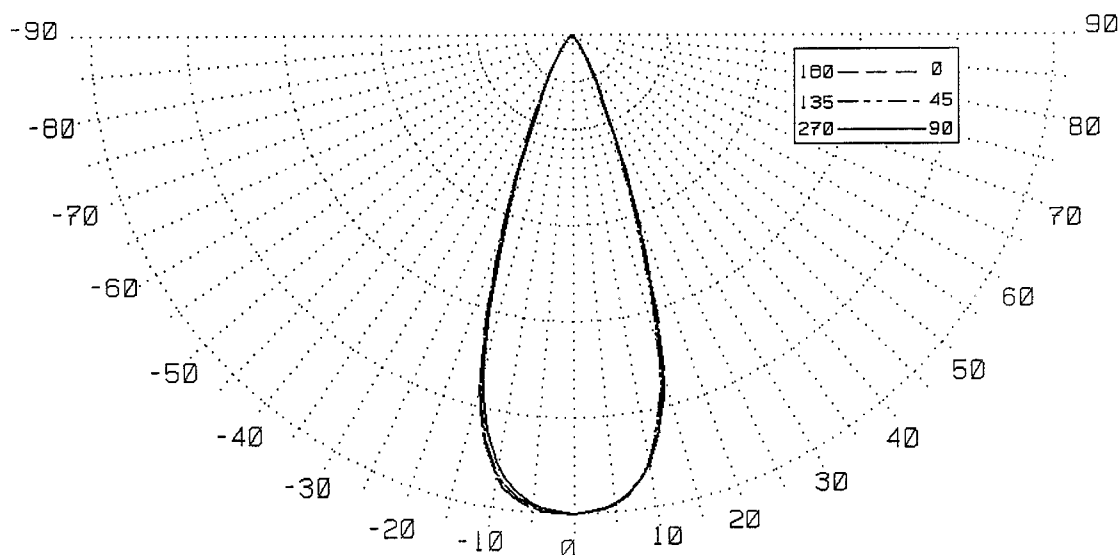


BALLABS CERTIFIED TEST REPORT NO.: 20419.0 DATE 05/04/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V18 LED 6" TALL HEATSINK 6" RND ADJ DOWNLIGHT @ 0 TILT  
ACRYLIC MED TIR OPTIC & 6" OPEN ASYM SEMI-SPEC TRIM  
ADVANCE # XI050C140V054DSM5 @ 1060mA  
CATALOG NBR: 6AR-L40/835-DIM-UNV-O-M-OF-CS (0 DEG TILT)  
LAMP TYPE : BXRE-35E4000

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	3669.	NA.	93.7	90-120	0.	NA.	.0
0- 40	3889.	NA.	99.4	90-130	0.	NA.	.0
0- 60	3914.	NA.	100.0	90-150	0.	NA.	.0
0- 90	3914.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	3914.	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.: 20419.0 DATE 05/04/18  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: GEN7 V18 LED 6" TALL HEATSINK 6" RND ADJ DOWNLIGHT @ 0 TILT  
 ACRYLIC MED TIR OPTIC & 6" OPEN ASYM SEMI-SPEC TRIM  
 ADVANCE # XI050C140V054DSM5 @ 1060mA  
 CATALOG NBR: 6AR-L40/835-DIM-UNV-O-M-OF-CS (0 DEG TILT)  
 LAMP TYPE : BXRE-35E4000

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	9736.	9736.	9736.	9736.	9736.	9736.	9736.	9736.	9736.			
5	9586.	9588.	9573.	9575.	9548.	9574.	9592.	9617.	9644.	457.3	458.0	915.3
10	8875.	8890.	8827.	8821.	8865.	8977.	9030.	9024.	9104.			
15	7158.	6933.	6898.	7060.	7094.	7383.	7326.	7518.	7338.	991.6	1056.0	2047.7
20	3827.	3500.	3451.	3991.	3794.	3964.	4038.	4256.	4055.			
25	1359.	1469.	1436.	1486.	1508.	1538.	1655.	1604.	1800.	342.0	363.7	705.7
30	699.	673.	726.	718.	746.	756.	768.	768.	780.			
35	314.	303.	307.	342.	336.	374.	353.	387.	414.	101.3	119.6	220.9
40	94.	98.	86.	89.	116.	126.	130.	146.	150.			
45	26.	24.	26.	27.	29.	33.	36.	36.	41.	9.9	13.4	23.3
50	3.	3.	4.	5.	7.	11.	10.	10.	9.			
55	0.	0.	1.	1.	0.	2.	3.	3.	3.	.2	1.2	1.4
60	1.	0.	0.	0.	0.	0.	1.	0.	0.			
65	0.	0.	0.	0.	0.	0.	0.	0.	0.	.0	.0	.0
70	0.	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

BALLABS CERTIFIED TEST REPORT NO.: 20419.0 DATE 05/04/18  
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
 DESCRIPTION: GEN7 V18 LED 6" TALL HEATSINK 6" RND ADJ DOWNLIGHT @ 0 TILT  
 ACRYLIC MED TIR OPTIC & 6" OPEN ASYM SEMI-SPEC TRIM  
 ADVANCE # XI050C140V054DSM5 @ 1060mA  
 CATALOG NBR: 6AR-L40/835-DIM-UNV-O-M-OF-CS (0 DEG TILT)  
 LAMP TYPE : BXRE-35E4000

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	.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	1.00	1.00	1.00
1	1.15	1.13	1.12	1.10	1.13	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	1.00	.99	.97	.97	.97	.97
2	1.11	1.07	1.04	1.01	1.09	1.05	1.03	1.00	1.02	1.00	.98	1.00	.98	.96	.97	.95	.94	.93	.94	.93	.93
3	1.07	1.03	.99	.96	1.06	1.01	.98	.95	.99	.96	.94	.97	.94	.92	.94	.93	.91	.90	.91	.90	.90
4	1.04	.98	.94	.91	1.02	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86	.87	.86	.86
5	1.00	.94	.89	.86	.98	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.82	.85	.84	.82
6	.97	.90	.86	.83	.96	.90	.86	.83	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80	.82	.81	.80
7	.94	.87	.83	.80	.93	.87	.82	.80	.85	.82	.79	.84	.81	.79	.83	.81	.78	.77	.79	.78	.77
8	.91	.84	.79	.76	.90	.83	.79	.76	.82	.79	.76	.81	.78	.76	.81	.78	.75	.74	.77	.76	.74
9	.88	.80	.76	.73	.87	.80	.76	.73	.79	.75	.73	.78	.75	.73	.78	.75	.72	.71	.74	.73	.71
10	.84	.77	.73	.70	.83	.77	.72	.70	.76	.72	.69	.75	.72	.69	.74	.71	.69	.68	.71	.70	.68

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 20419.0 DATE 05/04/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V18 LED 6" TALL HEATSINK 6" RND ADJ DOWNLIGHT @ 0 TILT  
ACRYLIC MED TIR OPTIC & 6" OPEN ASYM SEMI-SPEC TRIM  
ADVANCE # XI050C140V054DSM5 @ 1060mA  
CATALOG NBR: 6AR-L40/835-DIM-UNV-C-M-OF-CS (0 DEG TILT)  
LAMP TYPE : BXRE-35E4000

\*\*\*\*\*

ELECTRICAL CHARACTERISTICS 119.96V .3484A 41.6400W

LUMINOUS EFFICACY (LUMENS / WATTS) = 94.0

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

