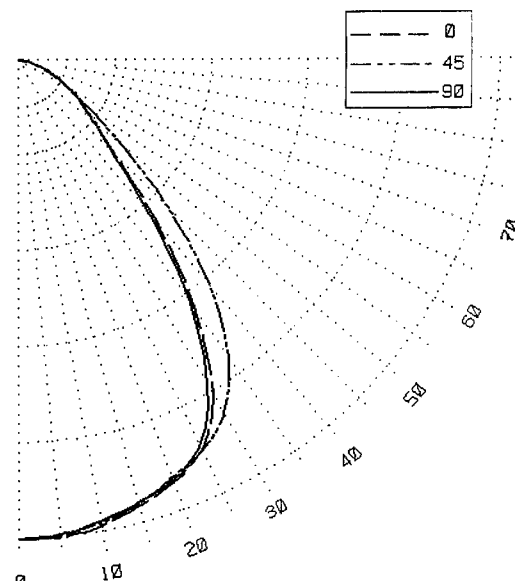


BALLABS CERTIFIED TEST REPORT NO.: 20339.0 DATE 04/25/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V18 LED 4"TALL HEATSINK 4"SQ FORMED HOUSING DOWNLIGHT
4"CAST SHALLOW WHITE FLUSH TRIM w/SOLITE LENS
ADVANCE # XI050C140V054DSM5 @ 1125mA
CATALOG NBR: 4PS-L40/835-DIM-UNV-L-W-OF-WH
LAMP TYPE : BXRE-35E4000

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	2316.	2316.	2316.	2316.	2316.	
5	2315.	2307.	2303.	2302.	2302.	220.1
10	2288.	2275.	2273.	2265.	2262.	
15	2232.	2217.	2221.	2214.	2214.	629.0
20	2175.	2160.	2152.	2159.	2163.	
25	2087.	2084.	2092.	2082.	2065.	964.4
30	1874.	1925.	1978.	1911.	1821.	
35	1483.	1631.	1764.	1609.	1441.	1015.6
40	1043.	1163.	1432.	1185.	980.	
45	667.	756.	1028.	762.	644.	619.8
50	491.	525.	655.	530.	478.	
55	382.	391.	429.	399.	367.	357.5
60	280.	288.	296.	288.	281.	
65	208.	204.	205.	211.	203.	205.0
70	142.	142.	136.	143.	139.	
75	88.	89.	87.	86.	87.	92.6
80	47.	47.	46.	43.	46.	
85	13.	10.	12.	10.	10.	12.3
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	1813.	NA.	44.1	90-120	0.	NA.	.0
0- 40	2829.	NA.	68.7	90-130	0.	NA.	.0
0- 60	3806.	NA.	92.5	90-150	0.	NA.	.0
0- 90	4116.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180					4116.	NA.	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.3 CROSS= 1.2

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.: 20339.0 DATE 04/25/18
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
 DESCRIPTION: GEN7 V18 LED 4"TALL HEATSINK 4"SQ FORMED HOUSING DOWNLIGHT
 4"CAST SHALLOW WHITE FLUSH TRIM w/SOLITE LENS
 ADVANCE # XI050C140V054DSM5 @ 1125mA
 CATALOG NBR: 4PS-L40/835-DIM-UNV-L-W-OF-WH
 LAMP TYPE : BXRE-35E4000

LUMINANCES-CD/SQ-M			
HORIZONTAL ANGLE			
VERT	0	45	90
ANGLE			
45	90655.	*****	87553.
55	63962.	71957.	61529.
65	47415.	46707.	46235.
75	32741.	32355.	32355.
85	14870.	13726.	11438.

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	1.12	1.09	1.06	1.03	1.10	1.06	1.04	1.01	1.02	1.00	.98	.99	.97	.95	.95	.94	.92	.90		
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	.68	.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	.65	.59	.55	.63	.58	.55	.53		
7	.74	.63	.56	.50	.73	.62	.55	.50	.61	.54	.50	.59	.54	.50	.58	.53	.49	.48		
8	.69	.57	.50	.45	.68	.57	.50	.45	.55	.49	.45	.54	.48	.44	.53	.48	.44	.42		
9	.64	.52	.45	.40	.63	.51	.45	.40	.50	.44	.40	.49	.44	.39	.48	.43	.39	.38		
10	.60	.48	.41	.36	.58	.47	.40	.36	.46	.40	.36	.45	.40	.35	.44	.39	.35	.34		

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 20339.0 DATE 04/25/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V18 LED 4"TALL HEATSINK 4"SQ FORMED HOUSING DOWNLIGHT
4"CAST SHALLOW WHITE FLUSH TRIM w/SOLITE LENS
ADVANCE # XI050C140V054DSM5 @ 1125mA
CATALOG NBR: 4PS-L40/835-DIM-UNV-L-W-OF-WH
LAMP TYPE : BXRE-35E4000

ELECTRICAL CHARACTERISTICS 119.96V .3740A 44.7160W

LUMINOUS EFFICACY (LUMENS / WATTS) = 92.0

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

