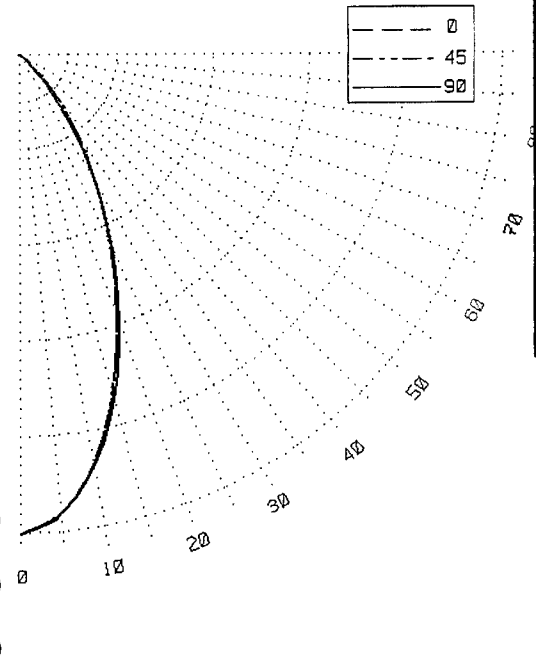


BALLABS CERTIFIED TEST REPORT NO.: 20335.0 DATE 04/23/18  
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO  
DESCRIPTION: GEN7 V22 LED 4" TALL HEATSINK 4" SQ CAST HOUSING DOWNLIGHT  
ACRYLIC NARROW TIR OPTIC & 4" ALUM SEMI-SPEC TRIM w/FROST  
FILM ADVANCE #XI050C140V054DSM5 @ 1195mA  
CATALOG NBR: 4DS-L40/835-DIM-UNV-O-N-OF-CS  
LAMP TYPE : BXRE-35E6500

CANDLEPOWER DISTRIBUTION						
VERT	HORIZONTAL ANGLE					ZONAL
ANG	0	22.5	45	67.5	90	LUMENS
0	5418.	5418.	5418.	5418.	5418.	
5	5240.	5225.	5211.	5211.	5217.	498.2
10	4725.	4712.	4723.	4728.	4757.	
15	4000.	3980.	3982.	4018.	4058.	1134.5
20	3160.	3188.	3183.	3241.	3258.	
25	2414.	2415.	2404.	2450.	2459.	1123.1
30	1707.	1711.	1725.	1741.	1734.	
35	1063.	1107.	1179.	1129.	1072.	704.0
40	568.	633.	759.	651.	569.	
45	247.	293.	418.	306.	245.	244.5
50	67.	98.	175.	101.	66.	
55	14.	20.	45.	21.	14.	22.5
60	1.	2.	6.	2.	1.	
65	0.	0.	0.	0.	0.	.0
70	0.	0.	0.	0.	0.	
75	0.	0.	0.	0.	0.	.0
80	0.	0.	0.	0.	0.	
85	0.	0.	0.	0.	0.	.0
90	0.	0.	0.	0.	0.	



*[Handwritten signature]*



NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2756.	NA.	73.9	90-120	0.	NA.	.0
0- 40	3460.	NA.	92.8	90-130	0.	NA.	.0
0- 60	3727.	NA.	100.0	90-150	0.	NA.	.0
0- 90	3727.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180					3727.	NA.	100.0

IES SPACING CRITERIA: END= .7 DIAGONAL = .7 CROSS= .7  
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.

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED  
SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

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LUMINANCES-CD/SQ-M			
HORIZONTAL ANGLE			
VERT	0	45	90
ANGLE			
45	33555.	56861.	33274.
55	2423.	7616.	2423.
65	0.	0.	0.
75	0.	0.	0.
85	0.	0.	0.

\*\*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	1.14	1.12	1.10	1.07	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	1.00	.97	1.00	.97	.95	.97	.95	.93	.94	.92	.91	.89	
3	1.04	.98	.94	.90	1.02	.97	.93	.90	.95	.91	.88	.92	.89	.87	.90	.88	.86	.84	
4	.99	.92	.87	.84	.98	.91	.87	.83	.89	.85	.82	.87	.84	.81	.86	.83	.80	.79	
5	.95	.87	.82	.78	.93	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74	
6	.91	.82	.77	.73	.89	.82	.76	.73	.80	.76	.72	.79	.75	.72	.77	.74	.71	.70	
7	.86	.78	.72	.68	.85	.77	.72	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.66	
8	.82	.73	.68	.64	.81	.73	.67	.64	.71	.67	.63	.70	.66	.63	.69	.66	.63	.61	
9	.78	.68	.63	.59	.77	.68	.63	.59	.67	.62	.59	.66	.62	.59	.65	.61	.58	.57	
10	.74	.64	.59	.55	.72	.64	.58	.55	.63	.58	.55	.62	.58	.54	.61	.57	.54	.53	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : BXRE-35E6500

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ELECTRICAL CHARACTERISTICS 119.98V .3788A 45.2910W

LUMINOUS EFFICACY (LUMENS / WATTS) = 82.3

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

