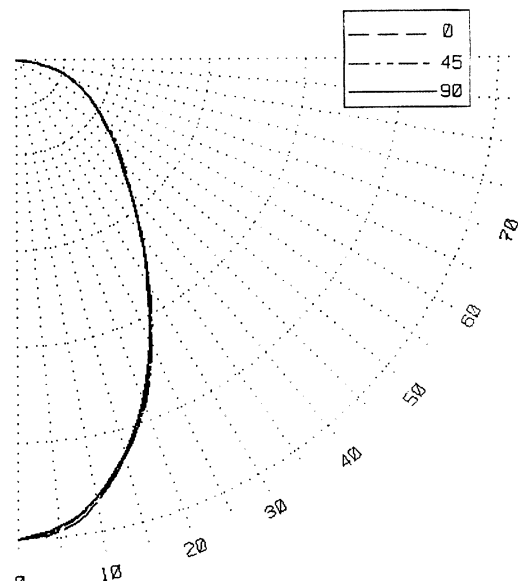


BALLABS CERTIFIED TEST REPORT NO.: 20353.0 DATE 04/24/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT
WHITE MIXING CHAMBER & 6"CAST WHITE FLUSH TRIM w/DIFFUSE
ACRYLIC LENS ADVANCE # XI025C070V054DSM1 @ 560mA
CATALOG NBR: 6DS-L20/835-DIM-UNV-L-W-OF-DAL
LAMP TYPE : BXRE-35E2000

CANDLEPOWER DISTRIBUTION

VERT ANG	0	22.5	45	67.5	90	ZONAL LUMENS
0	1162.	1162.	1162.	1162.	1162.	
5	1148.	1139.	1140.	1137.	1137.	108.8
10	1092.	1084.	1083.	1082.	1080.	
15	998.	995.	995.	993.	990.	281.9
20	891.	879.	893.	884.	881.	
25	760.	755.	765.	760.	755.	351.4
30	627.	634.	638.	638.	634.	
35	524.	521.	525.	522.	521.	328.4
40	430.	427.	430.	432.	427.	
45	359.	358.	363.	359.	355.	278.2
50	302.	303.	312.	303.	302.	
55	257.	255.	257.	255.	254.	229.1
60	217.	216.	215.	215.	216.	
65	181.	181.	180.	180.	181.	179.2
70	147.	147.	143.	145.	147.	
75	109.	108.	108.	109.	112.	114.8
80	64.	64.	64.	64.	67.	
85	19.	15.	16.	16.	18.	18.1
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	742.	NA.	39.3	90-120	0.	NA.	.0
0- 40	1071.	NA.	56.6	90-130	0.	NA.	.0
0- 60	1578.	NA.	83.5	90-150	0.	NA.	.0
0- 90	1890.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180				1890.	NA.	100.0	

IES SPACING CRITERIA: END= .9 DIAGONAL = .9 CROSS= .9

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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		LUMINANCES-CD/SQ-M		
		HORIZONTAL ANGLE		
VERT		0	45	90
ANGLE				
45		21686.	21951.	21421.
55		19131.	19131.	18886.
65		18308.	18197.	18308.
75		17937.	17756.	18481.
85		9147.	8071.	8609.

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	1.11	1.07	1.03	1.00	1.08	1.05	1.01	.98	1.00	.98	.95	.97	.94	.92	.93	.91	.90	.88	
2	1.02	.95	.90	.85	1.00	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76	
3	.95	.86	.79	.73	.93	.84	.78	.73	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67	
4	.88	.77	.70	.64	.86	.76	.69	.64	.74	.68	.63	.72	.66	.62	.70	.65	.61	.59	
5	.81	.70	.62	.56	.79	.69	.61	.56	.67	.60	.55	.65	.59	.54	.63	.58	.54	.52	
6	.76	.64	.56	.50	.74	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.53	.48	.46	
7	.70	.58	.50	.45	.69	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.48	.43	.42	
8	.65	.53	.45	.40	.64	.52	.45	.40	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37	
9	.61	.48	.40	.35	.59	.48	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33	
10	.57	.44	.37	.32	.55	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.35	.31	.30	

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : BXRE-35E2000

ELECTRICAL CHARACTERISTICS 120.00V .1892A 22.4560W

LUMINOUS EFFICACY (LUMENS / WATTS) = 84.2

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

