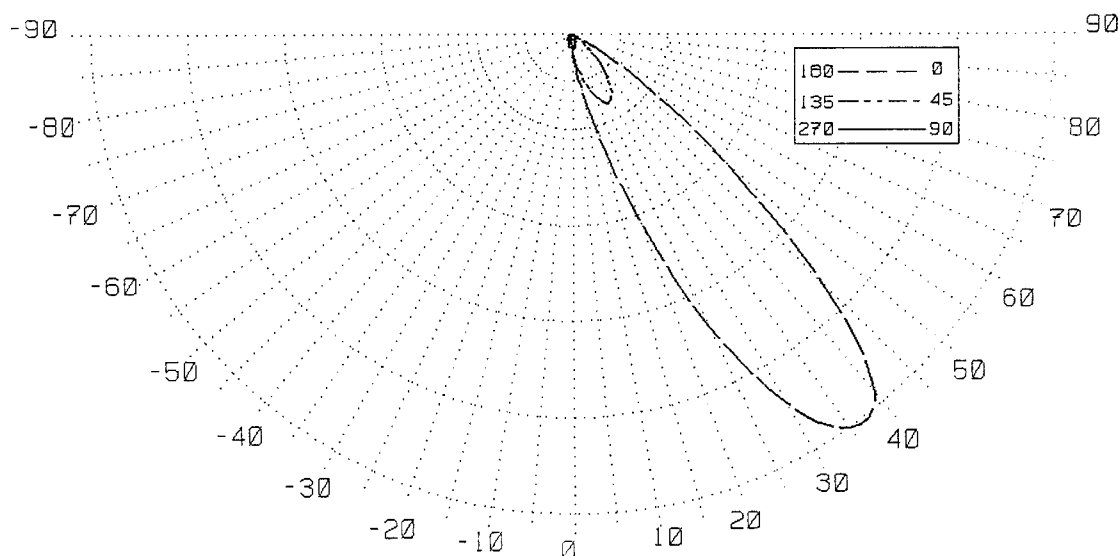


BALLABS CERTIFIED TEST REPORT NO.: 20495.0 DATE 05/30/18
 PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
 DESCRIPTION: GEN7 V18 LED 4" TALL HEATSINK 4" RND ADJ DOWNLIGHT @ 45 TILT
 ACRYLIC MED TIR OPTIC & 4" ASYM TRIM w/ ANGLED SOLITE LENS
 ADVANCE # XI050C140V054DSM5 @ 1220mA
 CATALOG NBR: 4AR-L40/835-DIM-UNV-A-M-OF-WH (45 DEGREE TILT)
 LAMP TYPE : BXRE-4000

0 DEGREE PLANE CONTAINS MAXIMUM CANDLEPOWER



[Handwritten signature]

NVLAP[®]
TESTING

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	621.	NA.	26.5	90-120	0.	NA.	.0
0- 40	1432.	NA.	61.1	90-130	0.	NA.	.0
0- 60	2295.	NA.	97.8	90-150	0.	NA.	.0
0- 90	2346.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	2346.	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.

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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	217.	217.	217.	217.	217.	217.	217.	217.	217.			
5	473.	427.	353.	283.	215.	168.	142.	126.	120.	16.9	7.0	24.0
10	893.	814.	549.	328.	194.	136.	105.	91.	87.			
15	1740.	1410.	774.	349.	194.	108.	85.	75.	73.	124.6	13.0	137.7
20	3070.	2399.	1000.	338.	140.	90.	74.	71.	68.			
25	4947.	3519.	1162.	298.	113.	77.	74.	74.	74.	441.7	17.5	459.2
30	6483.	4496.	1181.	239.	91.	74.	78.	83.	85.			
35	7338.	4827.	1051.	173.	76.	74.	86.	92.	94.	785.3	26.2	811.5
40	7161.	4407.	801.	123.	69.	77.	90.	97.	100.			
45	5411.	3185.	505.	85.	64.	76.	90.	96.	97.	633.0	33.4	666.4
50	3096.	1727.	253.	60.	57.	70.	81.	87.	89.			
55	1278.	700.	113.	42.	49.	61.	69.	72.	72.	166.6	29.8	196.4
60	447.	257.	49.	31.	37.	46.	52.	55.	55.			
65	121.	77.	25.	22.	25.	31.	35.	36.	38.	24.6	16.6	41.2
70	37.	24.	14.	13.	15.	17.	19.	23.	25.			
75	13.	9.	8.	6.	6.	6.	12.	15.	17.	4.0	5.5	9.5
80	6.	3.	2.	0.	0.	2.	3.	6.	7.			
85	0.	0.	0.	0.	0.	0.	0.	0.	0.	.0	.0	.0
90	0.	0.	0.	0.	0.	0.	0.	0.	0.			

USE .333 FT. AS LENGTH AND .333 FT. AS WIDTH

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 LAMP TYPE : BXRE-4000

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	1.12	1.08	1.05	1.02	1.09	1.06	1.03	1.01	1.02	1.00	.98	.98	.97	.95	.95	.93	.92	.90			
2	1.05	.99	.94	.89	1.02	.97	.92	.88	.94	.90	.86	.91	.87	.85	.88	.85	.83	.81			
3	.97	.89	.83	.78	.95	.88	.82	.77	.85	.80	.76	.82	.78	.75	.80	.77	.74	.72			
4	.90	.81	.73	.68	.88	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.69	.65	.63			
5	.83	.72	.65	.59	.81	.71	.64	.59	.69	.63	.58	.67	.62	.58	.66	.61	.57	.55			
6	.77	.65	.57	.52	.75	.64	.57	.51	.62	.56	.51	.61	.55	.51	.59	.54	.50	.48			
7	.70	.58	.50	.44	.69	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.48	.43	.42			
8	.64	.51	.43	.38	.62	.50	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35			
9	.58	.45	.37	.31	.57	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29			
10	.53	.40	.32	.27	.52	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.31	.26	.25			

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : BXRE-4000

ELECTRICAL CHARACTERISTICS 120.00V .4030A 48.2030W

LUMINOUS EFFICACY (LUMENS / WATTS) = 48.7

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

