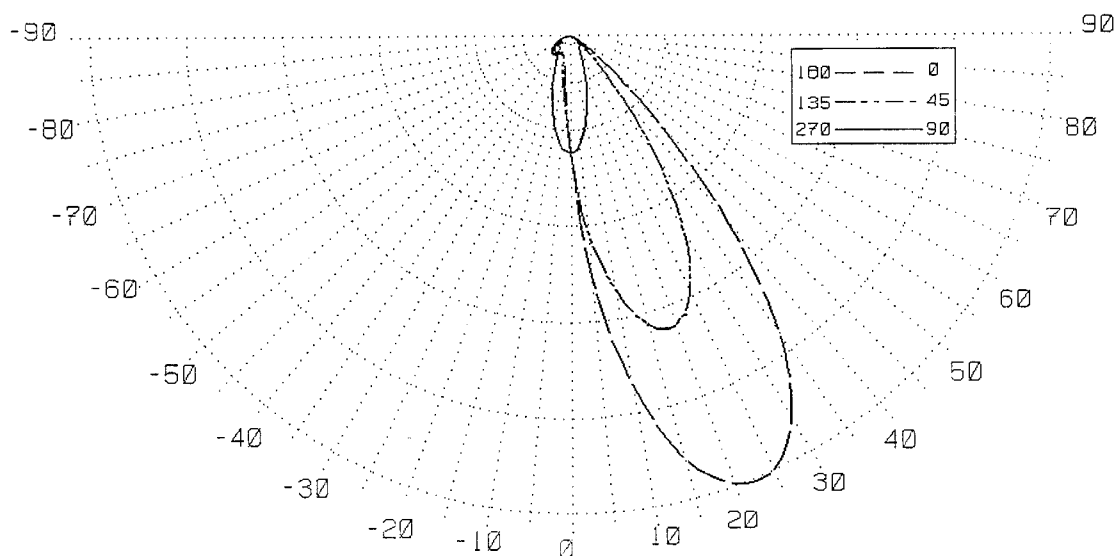


BALLABS CERTIFIED TEST REPORT NO.: 20482.0 DATE 05/21/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: GEN7 V18 LED 4"TALL HEATSINK 4"RND ADJ DOWNLIGHT @ 25 TILT
ACRYLIC WIDE TIR OPTIC & 4"ASYM FLUSH TRIM w/SOLITE LENS
ADVANCE #XI050C140V054DSM5 @ 1220mA
CATALOG NBR: 4AR-L40/835-DIM-UNV-L-W-OF-WH (25 DEGREE TILT)
LAMP TYPE : BXRE-35E4000

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	1263.	NA.	51.0	90-120	0.	NA.	.0
0- 40	1895.	NA.	76.5	90-130	0.	NA.	.0
0- 60	2365.	NA.	95.4	90-150	0.	NA.	.0
0- 90	2478.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE =				0-180	2478.	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		
	.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FRONT	BACK	TOTAL
0	1223.	1223.	1223.	1223.	1223.	1223.	1223.	1223.	1223.			
5	2497.	2360.	2047.	1569.	1154.	842.	659.	552.	519.	93.8	33.3	127.0
10	3642.	3428.	2666.	1671.	953.	568.	388.	320.	296.			
15	4506.	4176.	3079.	1581.	711.	368.	253.	220.	216.	408.0	41.6	449.6
20	4904.	4548.	3175.	1324.	491.	249.	200.	197.	200.			
25	4939.	4551.	2914.	983.	332.	197.	190.	199.	205.	640.4	45.8	686.2
30	4547.	4118.	2359.	645.	226.	182.	197.	212.	220.			
35	3773.	3252.	1567.	365.	182.	182.	206.	227.	237.	567.9	64.2	632.2
40	2559.	2137.	849.	234.	161.	184.	215.	236.	248.			
45	1353.	1088.	423.	157.	150.	182.	212.	234.	246.	240.9	80.5	321.4
50	622.	523.	222.	120.	133.	167.	194.	215.	226.			
55	299.	255.	128.	89.	108.	136.	161.	181.	187.	77.2	71.1	148.3
60	154.	136.	81.	70.	85.	105.	127.	142.	146.			
65	78.	68.	52.	53.	65.	81.	96.	107.	111.	30.1	46.7	76.8
70	44.	40.	34.	37.	44.	55.	68.	75.	78.			
75	29.	26.	23.	25.	29.	37.	43.	48.	51.	13.5	22.3	35.8
80	13.	11.	9.	10.	12.	16.	18.	23.	24.			
85	0.	0.	0.	0.	0.	0.	0.	1.	2.	.0	.3	.3
90	0.	0.	0.	0.	0.	0.	0.	0.	0.			

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

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 ACRYLIC WIDE TIR OPTIC & 4" ASYM FLUSH TRIM w/SOLITE LENS
 ADVANCE #XI050C140V054DSM5 @ 1220mA
 CATALOG NBR: 4AR-L40/835-DIM-UNV-L-W-OF-WH (25 DEGREE 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	1.13	1.10	1.07	1.04	1.10	1.07	1.05	1.02	1.03	1.01	.99	1.00	.98	.96	.96	.95	.94	.92			
2	1.06	1.01	.96	.92	1.04	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83			
3	1.00	.92	.87	.82	.98	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.78	.76			
4	.94	.85	.78	.74	.92	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69			
5	.87	.78	.71	.66	.86	.77	.70	.66	.75	.69	.65	.73	.68	.65	.72	.67	.64	.62			
6	.82	.72	.65	.60	.81	.71	.65	.60	.69	.64	.59	.68	.63	.59	.67	.62	.59	.57			
7	.77	.66	.59	.55	.76	.66	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.53	.52			
8	.72	.61	.54	.49	.70	.60	.53	.49	.59	.53	.49	.58	.52	.48	.57	.52	.48	.47			
9	.67	.55	.49	.44	.66	.55	.48	.44	.54	.48	.44	.53	.47	.43	.52	.47	.43	.42			
10	.62	.51	.44	.40	.61	.50	.44	.40	.49	.43	.39	.49	.43	.39	.48	.43	.39	.38			

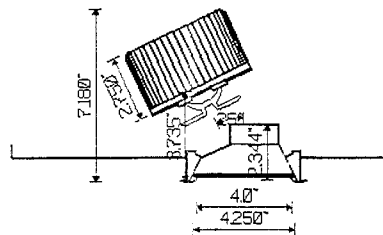
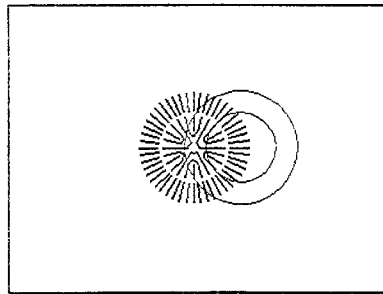
TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

BALLABS CERTIFIED TEST REPORT NO.: 20482.0 DATE 05/21/18
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
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ACRYLIC WIDE TIR OPTIC & 4" ASYM FLUSH TRIM w/SOLITE LENS
ADVANCE #XI050C140V054DSM5 @ 1220mA
CATALOG NBR: 4AR-L40/835-DIM-UNV-L-W-OF-WH (25 DEGREE TILT)
LAMP TYPE : BXRE-35E4000

ELECTRICAL CHARACTERISTICS 120.03V .4025A 48.1570W

LUMINOUS EFFICACY (LUMENS / WATTS) = 51.5

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



0 Degree Plane →

