

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P316391

Luminaire Tested: **GAN-SA7A-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28960 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

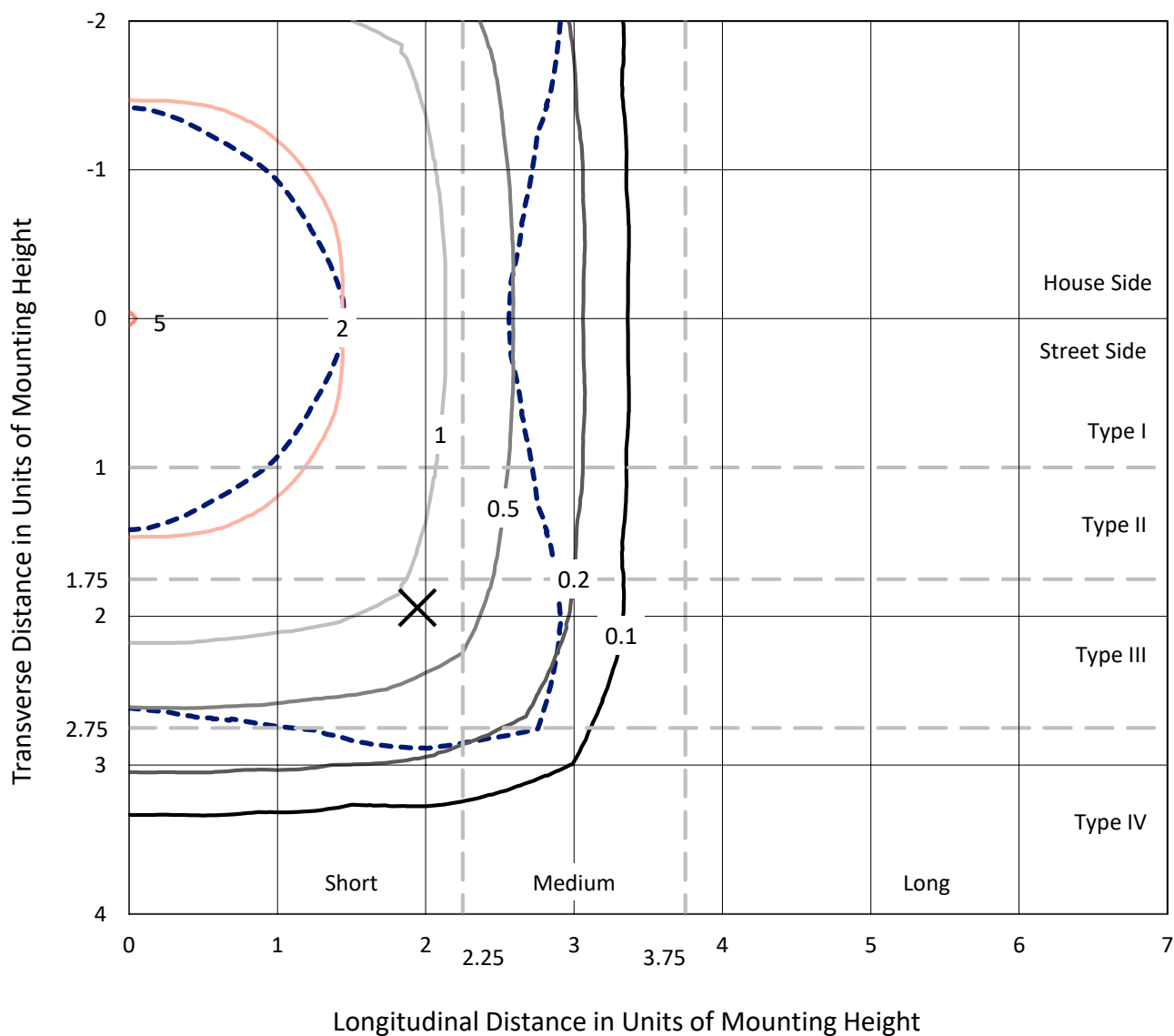


REPORT NUMBER: P316391

CATALOG NUMBER: GAN-SA7A-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

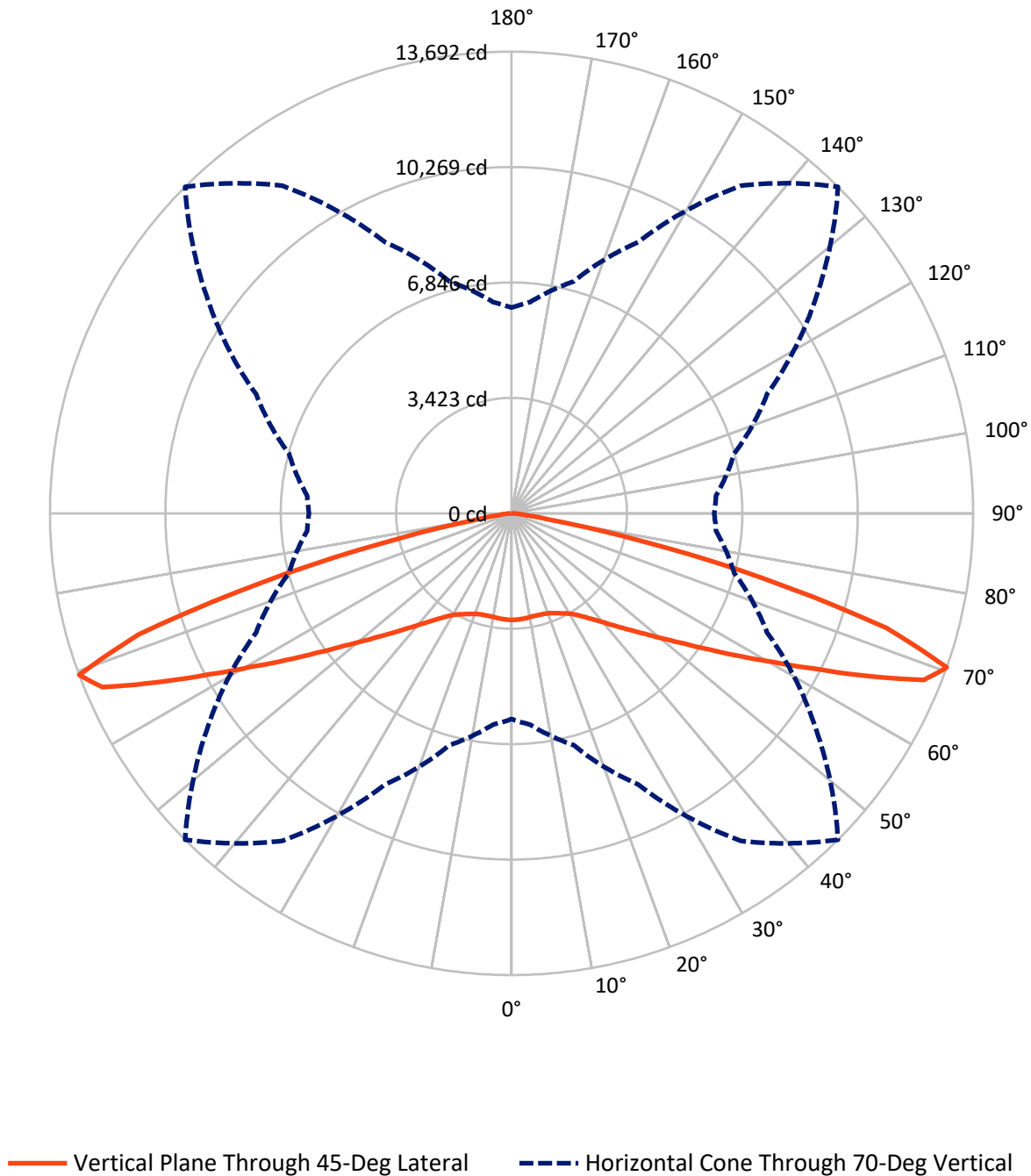
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - N/A

REPORT NUMBER: P316391
CATALOG NUMBER: GAN-SA7A-727-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316391

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14480.0	0.0	14480.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14480.0	0.0	14480.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28960.0	0.0	28960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.0
10°-20°	879.4	3.0
20°-30°	1497.1	5.2
30°-40°	2374.3	8.2
40°-50°	3863.8	13.3
50°-60°	6370.7	22.0
60°-70°	9352.3	32.3
70°-80°	4135.6	14.3
80°-90°	187.3	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28960.0	100.0
0°-180°	28960.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316391

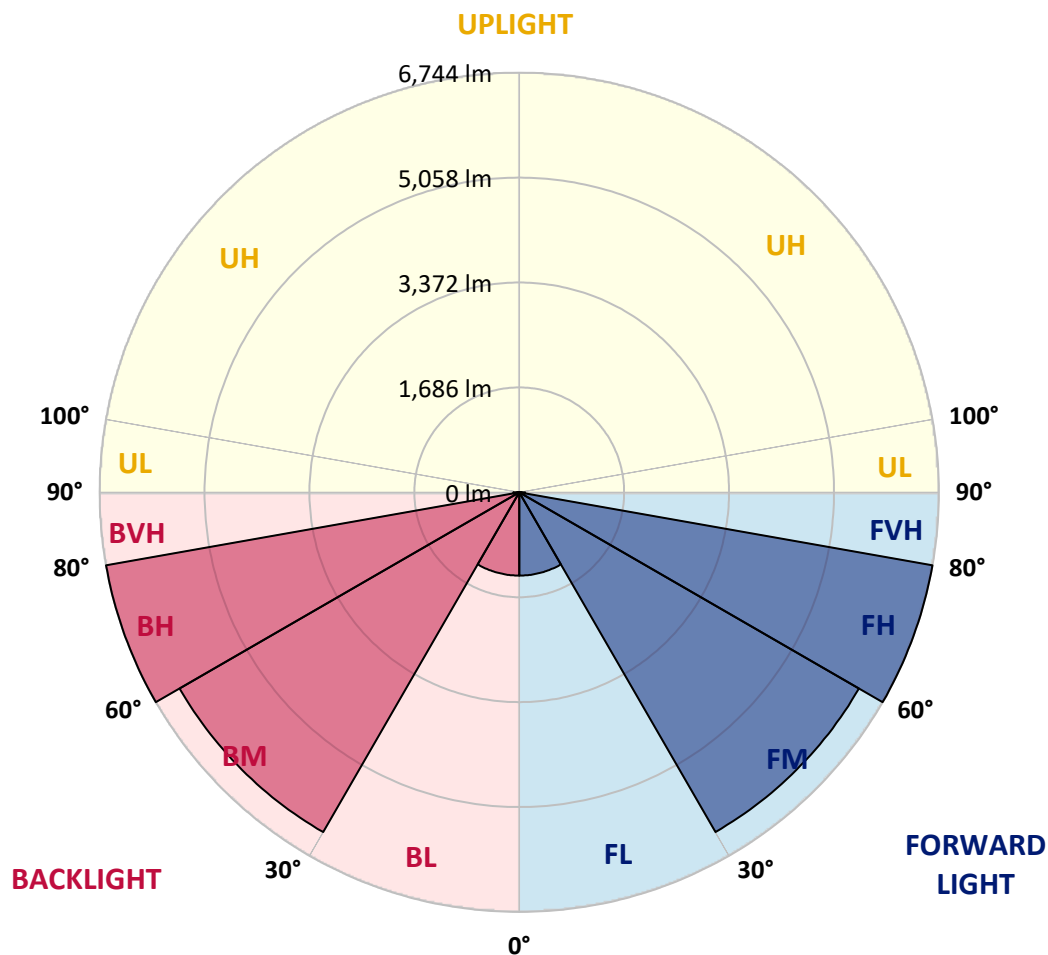
CATALOG NUMBER: GAN-SA7A-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1338.0	4.6			
FM	(30°-60°)	6304.4	21.8			
FH	(60°-80°)	6743.9	23.3			G3/7500
FVH	(80°-90°)	93.6	0.3			G1/100
BL	(0°-30°)	1338.0	4.6	B3/2500		
BM	(30°-60°)	6304.4	21.8	B4/8500		
BH	(60°-80°)	6743.9	23.3	B5		G3/7500
BVH	(80°-90°)	93.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P316391

CATALOG NUMBER: GAN-SA7A-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9
2.5°	3158.1	3155.2	3161.9	3161.0	3155.2	3156.2	3156.2	3159.0	3159.0	3157.1	3157.1
5°	3146.6	3144.7	3152.3	3152.3	3146.6	3148.5	3150.4	3153.3	3152.3	3150.4	3149.5
7.5°	3132.2	3131.3	3138.9	3138.9	3135.1	3137.0	3135.1	3136.0	3134.1	3132.2	3129.3
10°	3108.3	3110.2	3116.9	3118.8	3118.8	3119.8	3117.8	3113.0	3110.2	3107.3	3104.4
12.5°	3086.2	3085.2	3094.8	3099.6	3107.3	3115.9	3110.2	3096.7	3091.0	3085.2	3083.3
15°	3071.8	3072.8	3082.4	3091.0	3104.4	3122.6	3115.9	3094.8	3083.3	3076.6	3074.7
17.5°	3069.0	3070.9	3083.3	3098.7	3113.0	3133.2	3129.3	3108.3	3089.1	3076.6	3073.7
20°	3075.7	3076.6	3095.8	3117.8	3142.8	3161.9	3153.3	3130.3	3104.4	3085.2	3080.5
22.5°	3088.1	3092.0	3115.9	3150.4	3188.8	3214.6	3204.1	3164.8	3124.5	3100.6	3093.9
25°	3127.4	3128.4	3161.0	3207.9	3253.9	3283.6	3271.2	3215.6	3163.8	3137.0	3128.4
27.5°	3208.9	3211.8	3244.4	3299.0	3338.3	3357.4	3349.8	3304.7	3260.6	3231.9	3234.8
30°	3326.8	3330.6	3367.0	3427.4	3451.4	3456.2	3454.3	3433.2	3392.9	3354.6	3357.4
32.5°	3470.5	3472.5	3521.3	3576.0	3595.1	3599.0	3595.1	3576.0	3528.1	3476.3	3479.2
35°	3655.5	3661.3	3708.2	3761.0	3776.3	3784.0	3777.2	3752.3	3702.5	3651.7	3649.8
37.5°	3883.6	3884.6	3933.5	3988.1	4007.3	4009.2	4001.5	3985.2	3922.9	3876.9	3874.1
40°	4148.2	4152.0	4209.5	4268.0	4275.6	4267.0	4277.6	4268.0	4203.8	4151.0	4159.7
42.5°	4470.2	4478.8	4547.8	4605.3	4583.3	4578.5	4585.2	4588.1	4536.3	4472.1	4466.4
45°	4845.0	4852.6	4938.9	4984.9	4970.5	4938.9	4952.3	4975.3	4903.4	4823.9	4831.5
47.5°	5272.4	5291.6	5383.6	5426.7	5391.3	5348.1	5374.0	5408.5	5324.2	5225.5	5220.7
50°	5747.8	5771.8	5894.5	5954.8	5919.4	5839.8	5883.0	5906.0	5784.2	5656.8	5646.2
52.5°	6254.8	6278.8	6433.1	6557.7	6534.7	6411.1	6471.4	6447.5	6307.6	6136.0	6122.6
55°	6829.0	6838.5	7005.3	7206.6	7229.6	7138.5	7134.7	7095.4	6888.4	6690.0	6680.4
57.5°	7419.4	7426.1	7641.7	7879.4	7987.7	7987.7	7880.4	7797.0	7521.9	7291.9	7267.9
60°	8056.7	8080.7	8319.3	8642.3	8895.4	8970.1	8780.4	8553.2	8254.2	7973.3	7945.5
62.5°	8624.1	8651.9	9017.1	9498.2	9904.6	10176.8	9712.9	9343.0	8798.6	8348.1	8295.4
65°	8696.0	8770.8	9302.7	10173.9	11083.5	11626.9	10737.5	9826.0	8834.0	8208.2	8154.5
67.5°	7941.7	8068.2	8787.1	10143.3	12022.8	13189.2	11392.1	9550.0	8197.6	7505.6	7446.2
70°	6102.4	6286.5	7115.5	8872.4	11860.8	13692.4	10981.9	8360.6	6834.7	6090.0	6006.6
72.5°	3347.9	3423.6	4169.3	6075.6	9508.8	11635.6	9159.9	6182.0	4532.5	3688.1	3548.2
75°	1062.0	1088.8	1468.3	2486.2	5378.8	7706.9	5818.7	3034.5	1670.6	1231.6	1217.2
77.5°	471.6	474.4	531.0	725.5	1852.7	3904.7	2225.5	826.2	569.3	497.4	513.7
80°	298.1	298.1	328.7	359.4	504.1	1133.8	601.9	393.0	335.5	311.5	318.2
82.5°	142.8	158.1	213.7	230.0	277.0	381.5	308.6	256.9	224.3	166.8	155.3
85°	93.9	78.6	135.1	152.4	161.0	183.1	179.2	169.6	146.6	83.4	93.0
87.5°	42.2	40.3	70.0	64.2	60.4	46.0	69.0	85.3	82.4	41.2	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)