

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: P316418

Luminaire Tested: **GAN-SA4D-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316418
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-SA4D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27497 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

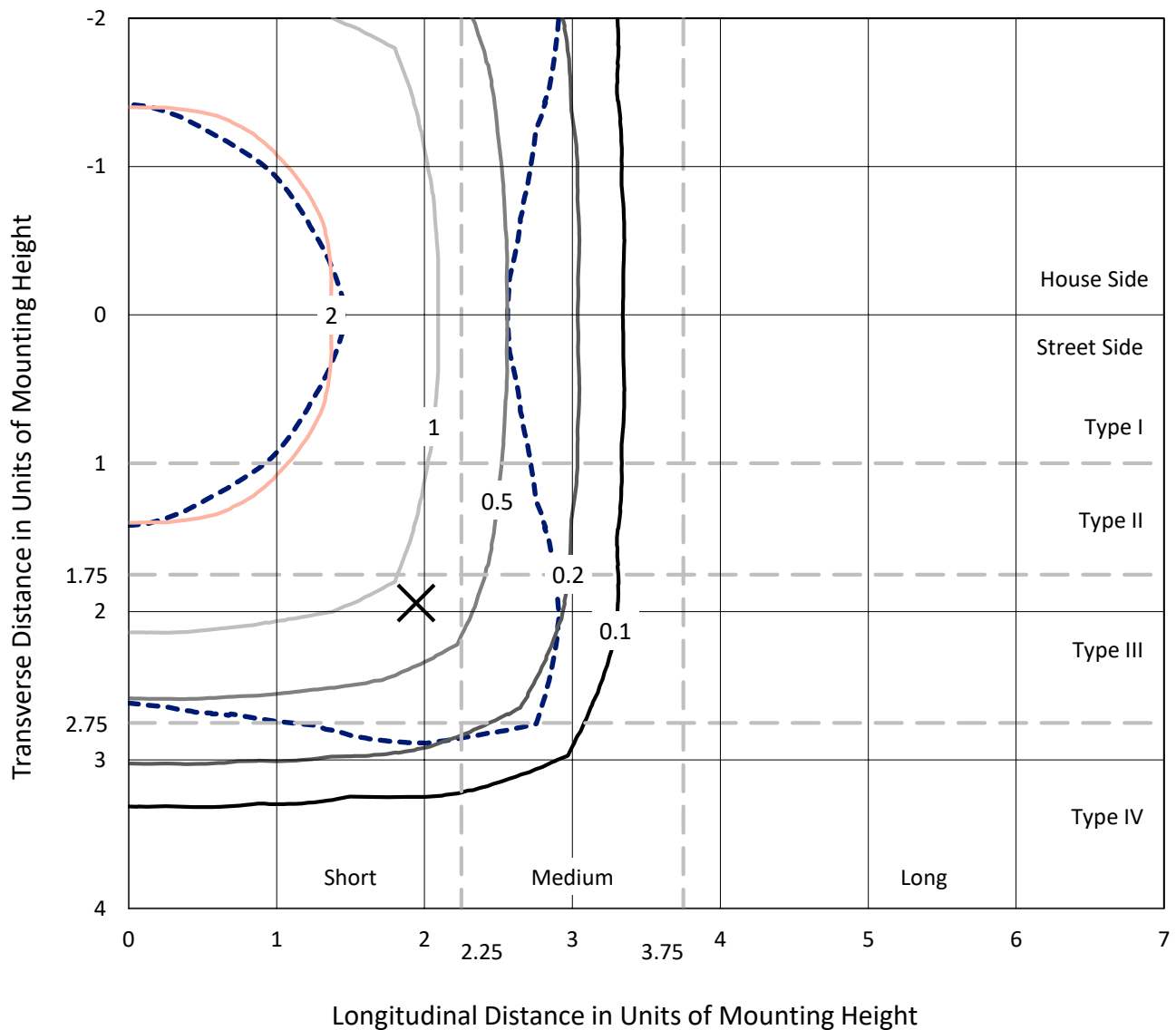
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316418
 CATALOG NUMBER: GAN-SA4D-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

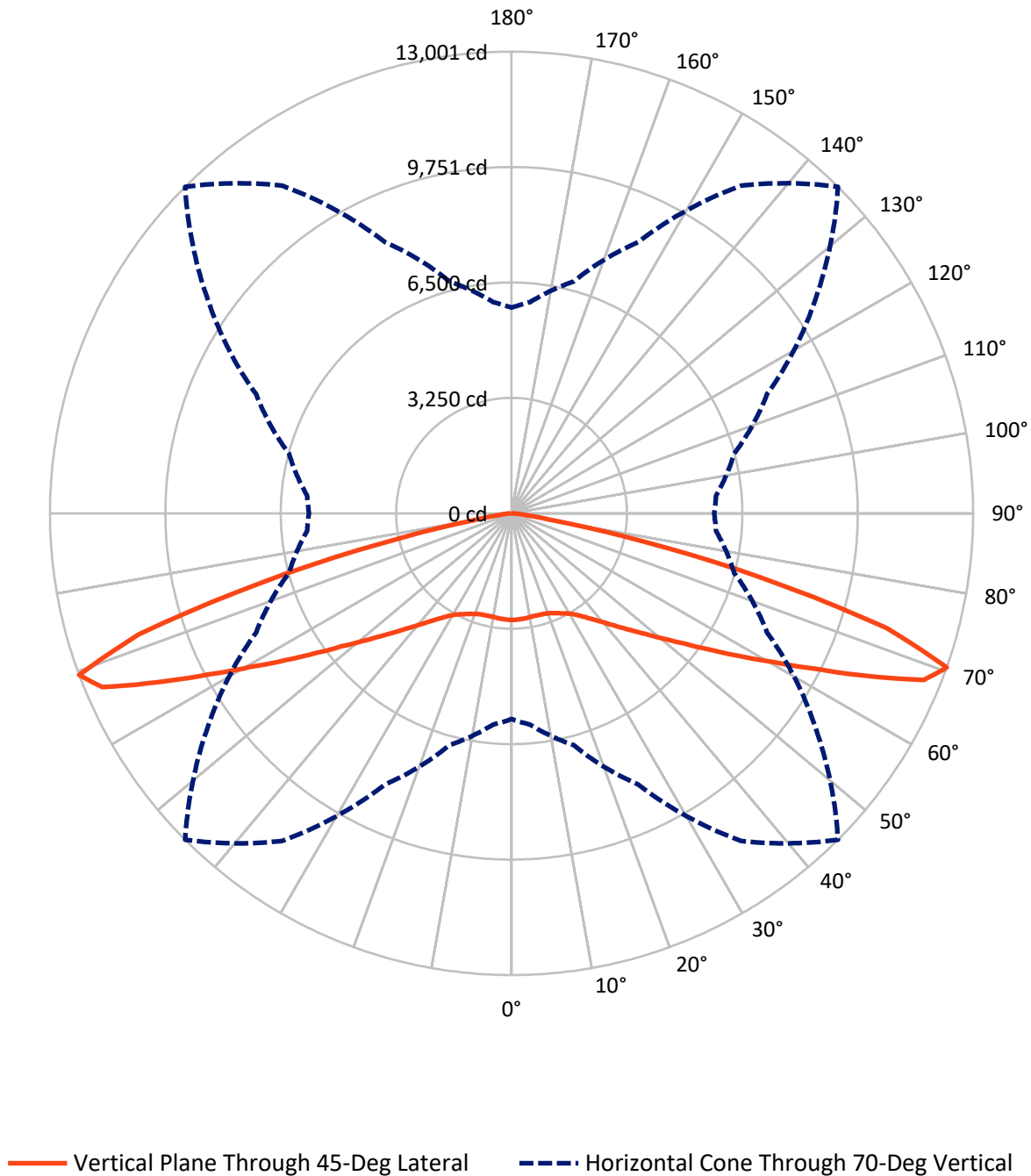
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P316418
CATALOG NUMBER: GAN-SA4D-727-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316418

CATALOG NUMBER: GAN-SA4D-727-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13748.5	0.0	13748.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13748.5	0.0	13748.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27497.0	0.0	27497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	1.0
10°-20°	835.0	3.0
20°-30°	1421.4	5.2
30°-40°	2254.4	8.2
40°-50°	3668.6	13.3
50°-60°	6048.8	22.0
60°-70°	8879.9	32.3
70°-80°	3926.7	14.3
80°-90°	177.8	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°	27497.0	100.0
0°-180°	27497.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316418

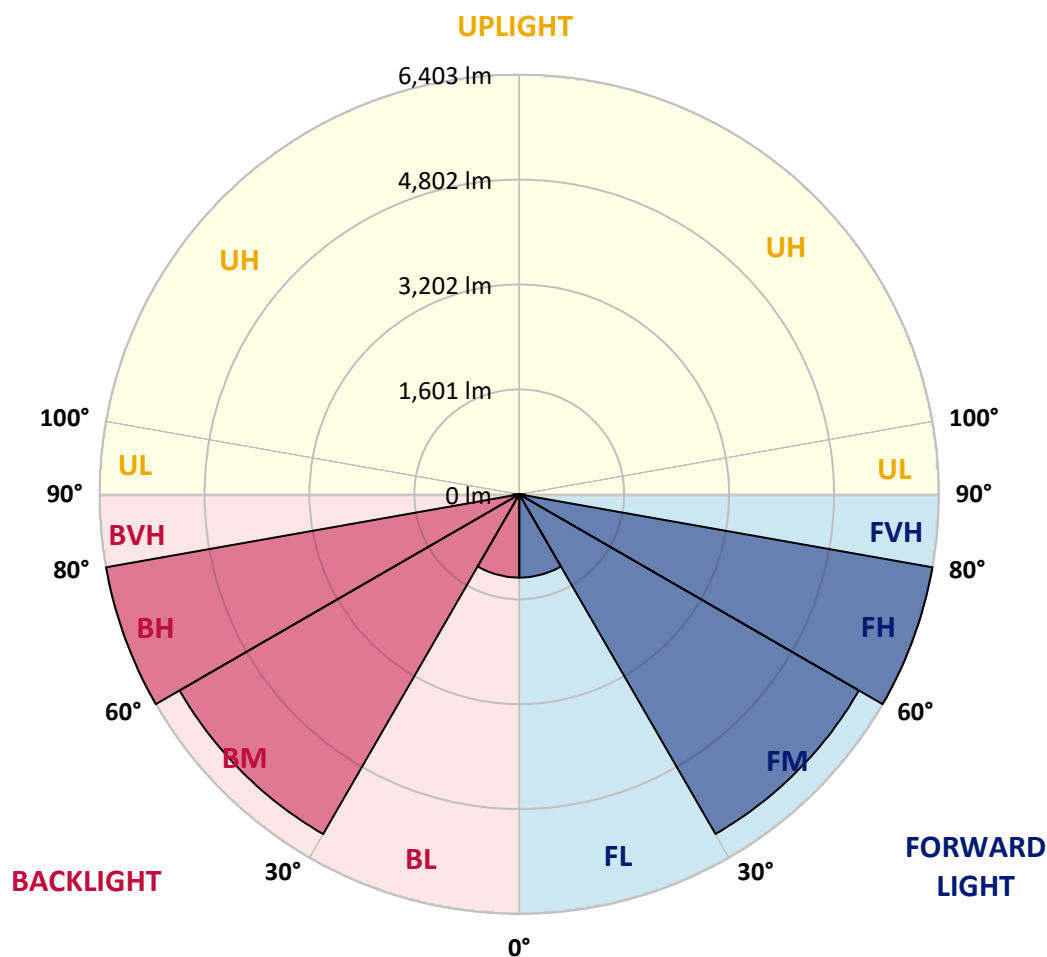
CATALOG NUMBER: GAN-SA4D-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.4	4.6			
FM	(30°-60°)	5985.9	21.8			
FH	(60°-80°)	6403.3	23.3			G3/7500
FVH	(80°-90°)	88.9	0.3			G1/100
BL	(0°-30°)	1270.4	4.6	B3/2500		
BM	(30°-60°)	5985.9	21.8	B4/8500		
BH	(60°-80°)	6403.3	23.3	B5		G3/7500
BVH	(80°-90°)	88.9	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: P316418

CATALOG NUMBER: GAN-SA4D-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1	3003.1
2.5°	2998.6	2995.8	3002.2	3001.3	2995.8	2996.7	2996.7	2999.5	2999.5	2997.6	2997.6
5°	2987.6	2985.8	2993.1	2993.1	2987.6	2989.4	2991.3	2994.0	2993.1	2991.3	2990.4
7.5°	2974.0	2973.1	2980.3	2980.3	2976.7	2978.5	2976.7	2977.6	2975.8	2974.0	2971.2
10°	2951.2	2953.0	2959.4	2961.2	2961.2	2962.1	2960.3	2955.8	2953.0	2950.3	2947.6
12.5°	2930.3	2929.4	2938.5	2943.0	2950.3	2958.5	2953.0	2940.3	2934.8	2929.4	2927.6
15°	2916.6	2917.6	2926.7	2934.8	2947.6	2964.9	2958.5	2938.5	2927.6	2921.2	2919.4
17.5°	2913.9	2915.7	2927.6	2942.1	2955.8	2974.9	2971.2	2951.2	2933.0	2921.2	2918.5
20°	2920.3	2921.2	2939.4	2960.3	2984.0	3002.2	2994.0	2972.2	2947.6	2929.4	2924.8
22.5°	2932.1	2935.8	2958.5	2991.3	3027.7	3052.2	3042.2	3004.9	2966.7	2943.9	2937.6
25°	2969.4	2970.3	3001.3	3045.9	3089.6	3117.8	3105.9	3053.2	3004.0	2978.5	2970.3
27.5°	3046.8	3049.5	3080.5	3132.3	3169.6	3187.8	3180.6	3137.8	3095.9	3068.6	3071.4
30°	3158.7	3162.4	3196.9	3254.3	3277.0	3281.6	3279.7	3259.7	3221.5	3185.1	3187.8
32.5°	3295.2	3297.0	3343.5	3395.3	3413.5	3417.2	3413.5	3395.3	3349.8	3300.7	3303.4
35°	3470.9	3476.3	3520.9	3571.0	3585.5	3592.8	3586.4	3562.8	3515.4	3467.2	3465.4
37.5°	3687.4	3688.4	3734.8	3786.6	3804.8	3806.7	3799.4	3783.9	3724.8	3681.1	3678.3
40°	3938.6	3942.3	3996.9	4052.4	4059.6	4051.5	4061.5	4052.4	3991.4	3941.3	3949.5
42.5°	4244.4	4252.6	4318.1	4372.7	4351.8	4347.2	4353.6	4356.3	4307.2	4246.2	4240.7
45°	4600.2	4607.5	4689.4	4733.1	4719.4	4689.4	4702.1	4724.0	4655.7	4580.2	4587.5
47.5°	5006.1	5024.3	5111.6	5152.6	5118.9	5078.0	5102.5	5135.3	5055.2	4961.5	4956.9
50°	5457.5	5480.2	5596.7	5654.0	5620.3	5544.8	5585.8	5607.6	5492.0	5371.0	5361.0
52.5°	5938.9	5961.6	6108.1	6226.4	6204.6	6087.2	6144.5	6121.8	5988.9	5826.0	5813.3
55°	6484.0	6493.1	6651.4	6842.5	6864.4	6777.9	6774.3	6737.0	6540.4	6352.0	6342.9
57.5°	7044.5	7050.9	7255.7	7481.4	7584.2	7584.2	7482.3	7403.1	7141.9	6923.5	6900.8
60°	7649.7	7672.5	7899.1	8205.7	8446.0	8517.0	8336.8	8121.1	7837.2	7570.5	7544.2
62.5°	8188.5	8214.8	8561.6	9018.4	9404.3	9662.7	9222.2	8871.0	8354.1	7926.4	7876.3
65°	8256.7	8327.7	8832.8	9660.0	10523.6	11039.6	10195.1	9329.6	8387.8	7793.5	7742.5
67.5°	7540.5	7660.6	8343.2	9630.9	11415.4	12522.9	10816.6	9067.5	7783.5	7126.4	7070.0
70°	5794.2	5968.9	6756.1	8424.2	11261.6	13000.7	10427.1	7938.2	6489.4	5782.3	5703.2
72.5°	3178.7	3250.6	3958.6	5768.7	9028.4	11047.8	8697.2	5869.7	4303.5	3501.8	3368.9
75°	1008.3	1033.8	1394.2	2360.6	5107.1	7317.6	5524.8	2881.2	1586.2	1169.4	1155.7
77.5°	447.7	450.5	504.2	688.9	1759.1	3707.5	2113.1	784.4	540.6	472.3	487.8
80°	283.0	283.0	312.1	341.3	478.7	1076.6	571.5	373.1	318.5	295.8	302.1
82.5°	135.6	150.2	202.9	218.4	263.0	362.2	293.0	243.9	212.9	158.3	147.4
85°	89.2	74.6	128.3	144.7	152.9	173.8	170.2	161.1	139.2	79.2	88.3
87.5°	40.0	38.2	66.4	61.0	57.3	43.7	65.5	81.0	78.3	39.1	39.1
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)