

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: P316738

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27001 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

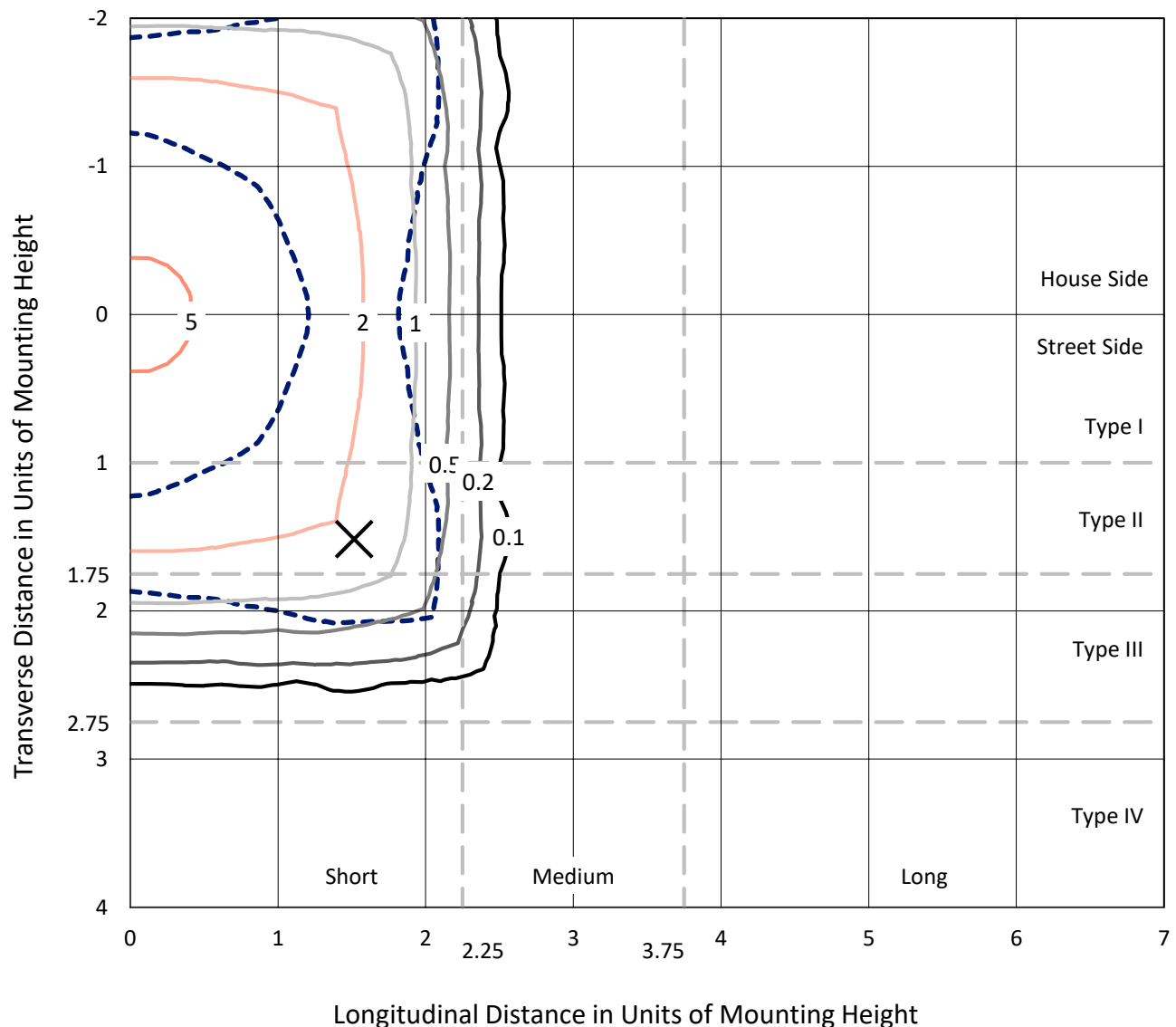
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

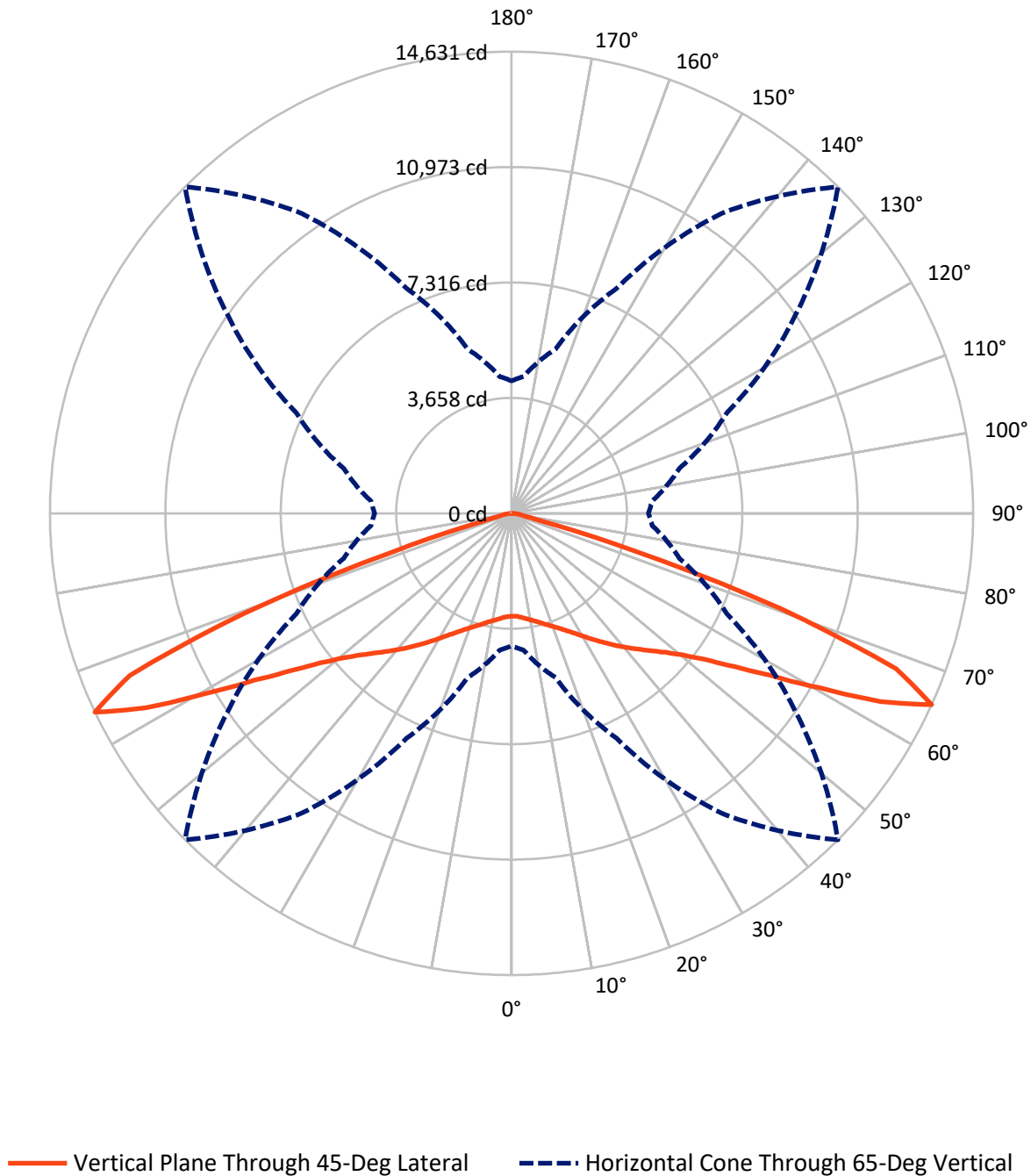
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13500.5	0.0	13500.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13500.5	0.0	13500.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27001.0	0.0	27001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	1.2
10°-20°	1028.3	3.8
20°-30°	1929.3	7.1
30°-40°	3190.7	11.8
40°-50°	4941.9	18.3
50°-60°	7579.5	28.1
60°-70°	7072.5	26.2
70°-80°	823.1	3.0
80°-90°	115.7	0.4
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°	27001.0	100.0
0°-180°	27001.0	100.0

Coefficient of Utilization



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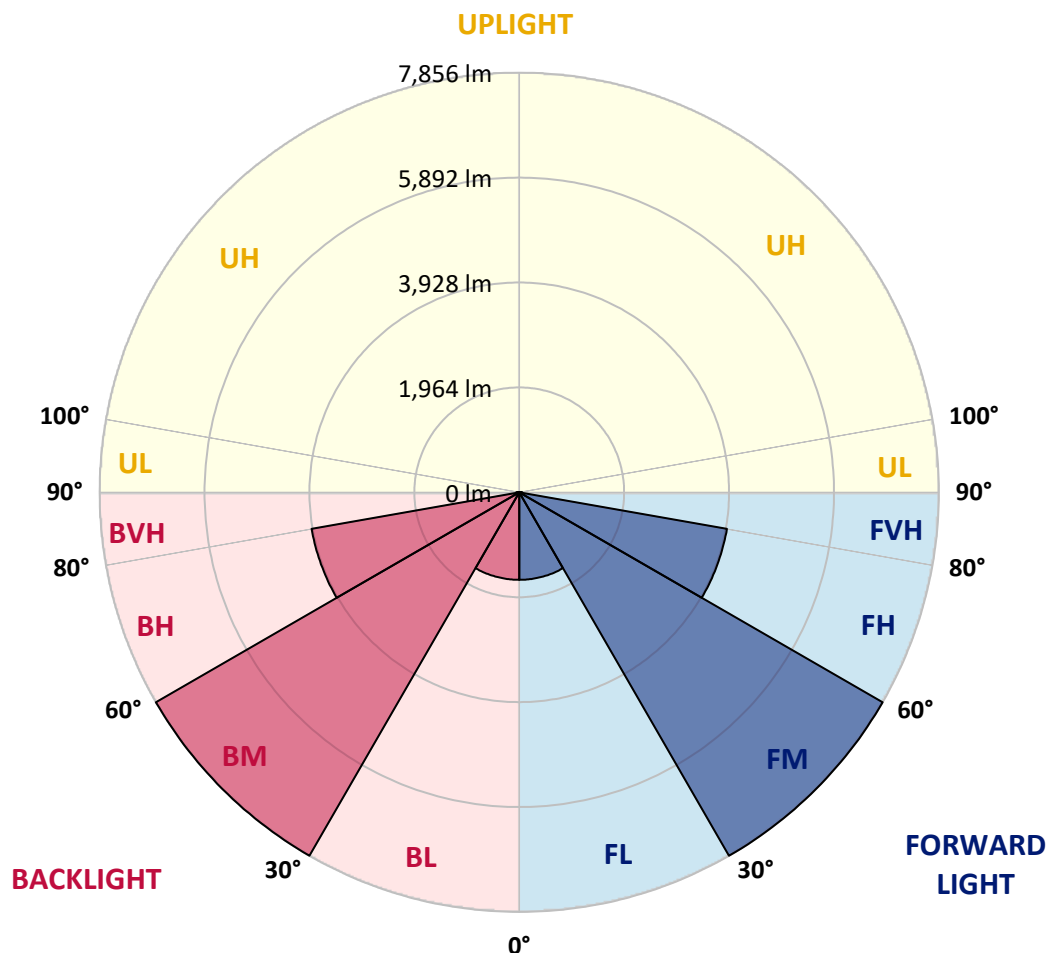
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1638.8	6.1			
FM	(30°-60°)	7856.1	29.1			
FH	(60°-80°)	3947.8	14.6			G2/5000
FVH	(80°-90°)	57.8	0.2			G1/100
BL	(0°-30°)	1638.8	6.1	B3/2500		
BM	(30°-60°)	7856.1	29.1	B4/8500		
BH	(60°-80°)	3947.8	14.6	B4/5000		G2/5000
BVH	(80°-90°)	57.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7	3260.7
2.5°	3271.5	3269.7	3271.5	3272.4	3267.0	3269.7	3268.8	3273.3	3275.1	3273.3	3273.3
5°	3309.1	3306.4	3310.0	3314.5	3307.3	3309.1	3306.4	3311.8	3313.6	3310.0	3312.7
7.5°	3361.1	3362.0	3365.6	3373.6	3369.2	3372.7	3367.4	3368.3	3367.4	3362.0	3362.9
10°	3417.6	3418.5	3424.7	3435.5	3437.3	3437.3	3433.7	3431.0	3427.4	3423.8	3424.7
12.5°	3485.7	3490.2	3494.6	3508.1	3508.1	3515.3	3513.5	3506.3	3500.0	3494.6	3494.6
15°	3578.0	3577.1	3582.5	3595.9	3602.2	3613.9	3613.9	3604.0	3595.9	3590.5	3588.8
17.5°	3674.8	3677.5	3681.1	3697.2	3707.1	3720.5	3722.3	3714.2	3708.9	3701.7	3697.2
20°	3787.7	3792.2	3806.6	3812.8	3821.8	3834.3	3838.8	3837.0	3831.7	3828.1	3829.0
22.5°	3919.5	3931.1	3940.1	3949.1	3959.8	3968.8	3973.3	3979.5	3974.2	3971.5	3969.7
25°	4079.0	4087.1	4105.0	4121.2	4128.3	4131.0	4136.4	4145.4	4144.5	4138.2	4138.2
27.5°	4260.1	4275.3	4297.7	4321.0	4321.0	4312.1	4330.0	4345.2	4339.8	4331.8	4321.0
30°	4479.7	4494.0	4520.0	4552.3	4536.1	4529.9	4554.1	4581.8	4573.8	4560.3	4558.5
32.5°	4716.3	4729.7	4763.8	4798.8	4778.1	4769.2	4795.2	4835.5	4821.2	4794.3	4778.1
35°	4972.6	4986.1	5034.5	5076.6	5041.6	5026.4	5047.9	5091.8	5066.7	5016.5	5004.0
37.5°	5251.4	5258.5	5321.3	5364.3	5340.1	5299.8	5326.7	5358.9	5337.4	5276.5	5252.3
40°	5540.9	5566.9	5639.5	5689.7	5647.5	5583.9	5628.7	5673.5	5641.3	5563.3	5522.1
42.5°	5878.8	5898.5	5995.3	6040.1	5972.0	5882.4	5943.3	6004.3	5972.0	5896.7	5860.9
45°	6230.1	6260.6	6376.2	6421.0	6322.4	6208.6	6283.0	6389.7	6387.0	6278.5	6240.9
47.5°	6612.8	6643.3	6781.4	6840.5	6733.8	6581.5	6686.3	6836.9	6826.2	6707.0	6676.5
50°	7054.7	7087.0	7259.1	7333.5	7234.0	7056.5	7214.3	7346.9	7327.2	7180.2	7182.9
52.5°	7609.5	7607.7	7821.9	7951.0	7848.8	7692.0	7837.2	7966.2	7884.7	7681.2	7675.0
55°	8095.3	8124.9	8390.2	8634.9	8628.6	8568.6	8626.8	8632.2	8399.2	8128.5	8095.3
57.5°	8414.4	8470.9	8844.6	9287.4	9619.0	9698.8	9585.8	9243.5	8697.6	8264.7	8211.8
60°	8218.1	8304.2	8891.2	9793.8	10770.7	11239.5	10602.2	9540.1	8465.5	7862.3	7790.6
62.5°	6893.4	7038.6	7898.1	9549.1	11762.0	13132.5	11339.0	9064.2	7542.3	6711.4	6588.6
65°	4198.2	4351.5	5387.6	7859.6	11601.6	14631.1	11002.9	7523.5	5505.0	4471.6	4339.0
67.5°	1399.1	1443.9	2054.3	4344.3	9118.0	13145.9	9133.2	4503.9	2395.8	1588.2	1541.6
70°	547.6	552.1	651.6	1259.3	4305.8	9029.3	4751.2	1281.7	681.2	538.7	550.3
72.5°	402.4	404.2	432.0	526.1	1122.2	3977.7	1162.5	528.8	420.4	377.3	377.3
75°	323.6	323.6	343.3	383.6	502.8	912.4	510.0	379.1	328.9	301.2	297.6
77.5°	255.4	260.8	276.1	302.1	340.6	439.2	353.1	300.3	265.3	239.3	233.9
80°	190.0	195.4	220.5	233.0	244.7	304.7	260.8	234.8	209.7	179.3	173.9
82.5°	124.6	130.0	161.3	168.5	165.8	199.0	175.7	173.0	154.2	115.6	110.2
85°	81.6	83.4	107.6	112.0	103.1	90.5	112.0	118.3	107.6	75.3	72.6
87.5°	38.5	38.5	54.7	51.1	46.6	37.6	51.1	60.1	60.9	36.7	35.9
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)