

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: P316401

Luminaire Tested: **GAN-SA7B-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316401
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-SA7B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35510 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

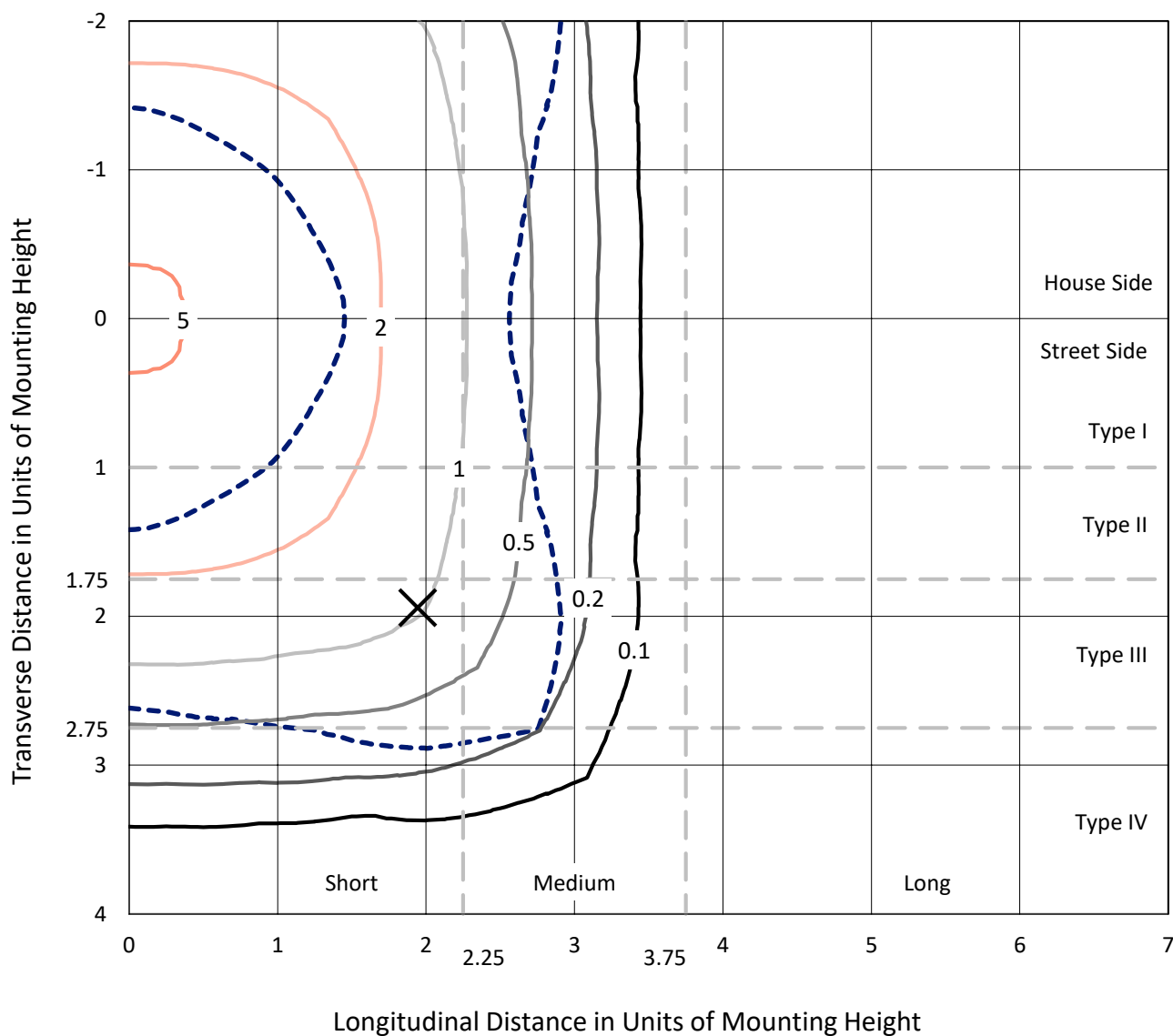
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316401
 CATALOG NUMBER: GAN-SA7B-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

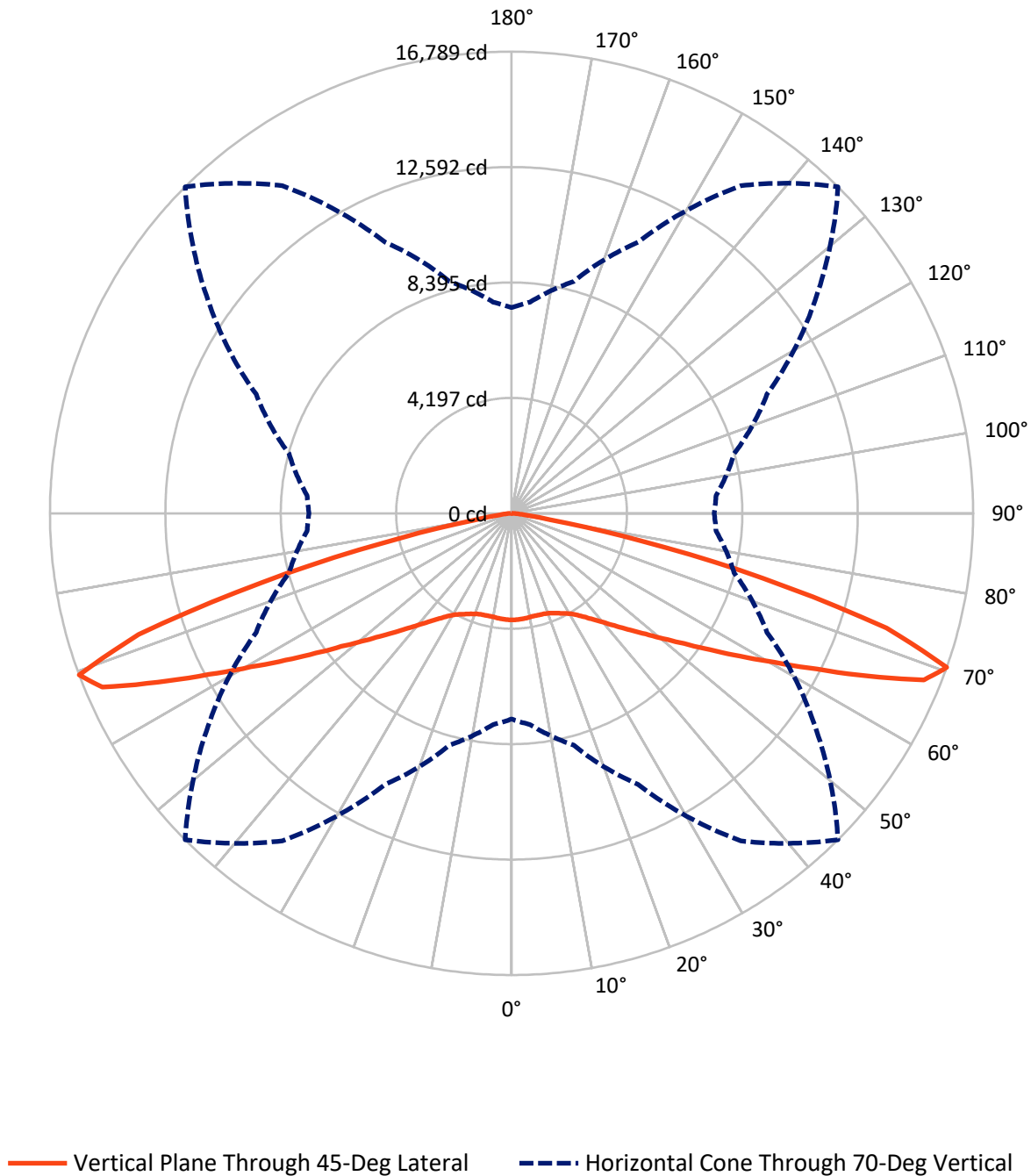
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

REPORT NUMBER: P316401
CATALOG NUMBER: GAN-SA7B-727-U-5MQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17755.0	0.0	17755.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17755.0	0.0	17755.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35510.0	0.0	35510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.0
10°-20°	1078.3	3.0
20°-30°	1835.7	5.2
30°-40°	2911.4	8.2
40°-50°	4737.7	13.3
50°-60°	7811.5	22.0
60°-70°	11467.6	32.3
70°-80°	5070.9	14.3
80°-90°	229.6	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°	35510.0	100.0
0°-180°	35510.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316401

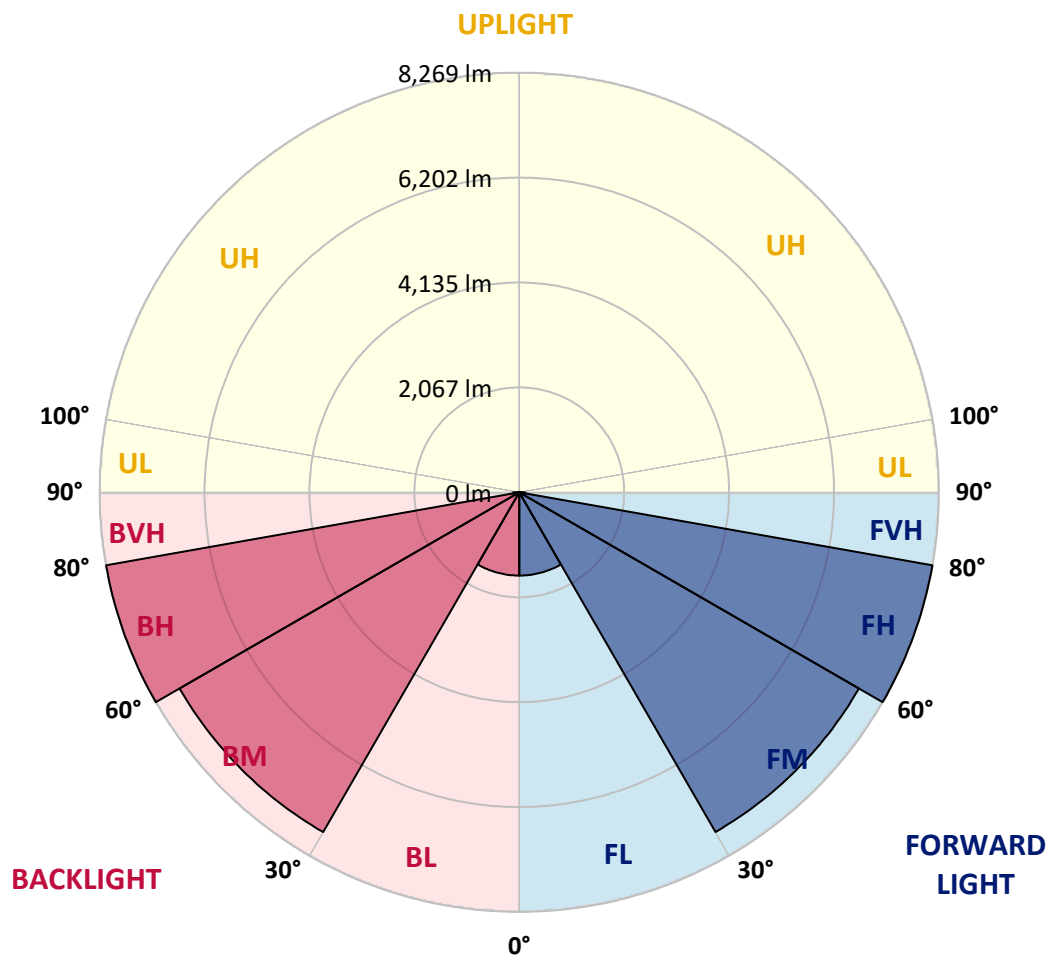
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1640.7	4.6			
FM	(30°-60°)	7730.3	21.8			
FH	(60°-80°)	8269.2	23.3			G4/12000
FVH	(80°-90°)	114.8	0.3			G2/225
BL	(0°-30°)	1640.7	4.6	B3/2500		
BM	(30°-60°)	7730.3	21.8	B4/8500		
BH	(60°-80°)	8269.2	23.3	B5		G4/12000
BVH	(80°-90°)	114.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3878.2	3878.2	3878.2	3878.2	3878.2	3878.2	3878.2	3878.2	3878.2	3878.2	3878.2
2.5°	3872.4	3868.8	3877.1	3875.9	3868.8	3870.0	3870.0	3873.5	3873.5	3871.2	3871.2
5°	3858.3	3855.9	3865.3	3865.3	3858.3	3860.6	3863.0	3866.5	3865.3	3863.0	3861.8
7.5°	3840.6	3839.5	3848.9	3848.9	3844.2	3846.5	3844.2	3845.3	3843.0	3840.6	3837.1
10°	3811.3	3813.6	3821.8	3824.2	3824.2	3825.4	3823.0	3817.1	3813.6	3810.1	3806.6
12.5°	3784.2	3783.1	3794.8	3800.7	3810.1	3820.7	3813.6	3797.2	3790.1	3783.1	3780.7
15°	3766.6	3767.8	3779.5	3790.1	3806.6	3828.9	3820.7	3794.8	3780.7	3772.5	3770.1
17.5°	3763.1	3765.4	3780.7	3799.5	3817.1	3841.8	3837.1	3811.3	3787.8	3772.5	3768.9
20°	3771.3	3772.5	3796.0	3823.0	3853.6	3877.1	3866.5	3838.3	3806.6	3783.1	3777.2
22.5°	3786.6	3791.3	3820.7	3863.0	3910.0	3941.7	3928.8	3880.6	3831.2	3801.9	3793.6
25°	3834.8	3835.9	3875.9	3933.5	3989.9	4026.3	4011.0	3942.9	3879.4	3846.5	3835.9
27.5°	3934.7	3938.2	3978.1	4045.1	4093.3	4116.8	4107.4	4052.2	3998.1	3962.9	3966.4
30°	4079.2	4083.9	4128.6	4202.6	4232.0	4237.9	4235.5	4209.7	4160.3	4113.3	4116.8
32.5°	4255.5	4257.8	4317.8	4384.8	4408.3	4413.0	4408.3	4384.8	4326.0	4262.5	4266.1
35°	4482.3	4489.4	4546.9	4611.6	4630.4	4639.8	4631.6	4601.0	4539.9	4477.6	4475.3
37.5°	4762.0	4763.2	4823.1	4890.1	4913.6	4916.0	4906.6	4886.6	4810.2	4753.8	4750.3
40°	5086.4	5091.1	5161.6	5233.3	5242.7	5232.1	5245.0	5233.3	5154.5	5089.9	5100.5
42.5°	5481.3	5491.8	5576.4	5647.0	5619.9	5614.1	5622.3	5625.8	5562.3	5483.6	5476.6
45°	5940.8	5950.2	6055.9	6112.3	6094.7	6055.9	6072.4	6100.6	6012.5	5914.9	5924.3
47.5°	6464.9	6488.4	6601.2	6654.1	6610.6	6557.8	6589.5	6631.8	6528.4	6407.3	6401.5
50°	7047.8	7077.2	7227.6	7301.7	7258.2	7160.6	7213.5	7241.7	7092.5	6936.2	6923.3
52.5°	7669.5	7698.9	7888.1	8040.9	8012.7	7861.1	7935.1	7905.7	7734.2	7523.8	7507.3
55°	8373.5	8385.2	8589.7	8836.5	8864.7	8753.1	8748.4	8700.2	8446.3	8203.1	8191.3
57.5°	9097.4	9105.6	9370.1	9661.5	9794.3	9794.3	9662.7	9560.5	9223.2	8941.1	8911.7
60°	9878.9	9908.3	10201.0	10597.0	10907.3	10998.9	10766.2	10487.7	10121.0	9776.7	9742.6
62.5°	10574.7	10608.8	11056.5	11646.5	12144.8	12478.5	11909.7	11456.1	10788.6	10236.2	10171.6
65°	10662.8	10754.5	11406.7	12475.0	13590.3	14256.7	13166.1	12048.4	10832.1	10064.6	9998.8
67.5°	9737.9	9893.0	10774.5	12437.4	14742.0	16172.3	13968.7	11709.9	10051.7	9203.2	9130.3
70°	7482.7	7708.3	8724.9	10879.1	14543.4	16789.3	13465.7	10251.5	8380.5	7467.4	7365.1
72.5°	4105.1	4197.9	5112.2	7449.8	11659.4	14267.2	11231.6	7580.2	5557.6	4522.3	4350.7
75°	1302.2	1335.1	1800.4	3048.5	6595.4	9450.0	7134.8	3720.8	2048.4	1510.2	1492.5
77.5°	578.2	581.7	651.1	889.6	2271.7	4787.9	2728.9	1013.0	698.1	609.9	629.9
80°	365.5	365.5	403.1	440.7	618.2	1390.3	738.0	481.8	411.3	381.9	390.2
82.5°	175.1	193.9	262.1	282.1	339.6	467.7	378.4	315.0	275.0	204.5	190.4
85°	115.2	96.4	165.7	186.9	197.4	224.5	219.8	208.0	179.8	102.2	114.0
87.5°	51.7	49.4	85.8	78.7	74.0	56.4	84.6	104.6	101.1	50.5	50.5
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)