

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: P317061

Luminaire Tested: **GAN-SA7D-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46916 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 448
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

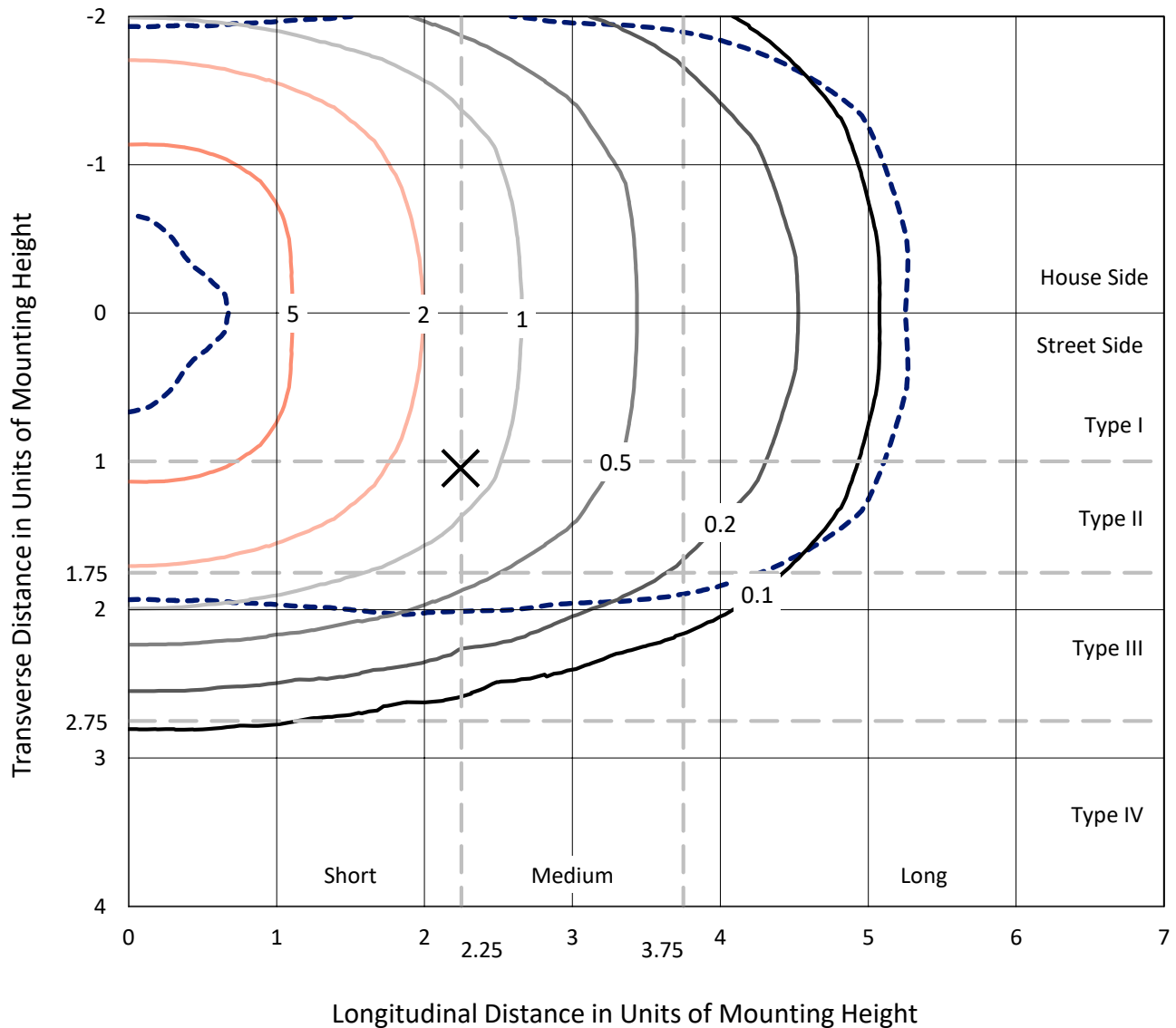


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Iso-Footcandle Lines of Horizontal Illumination

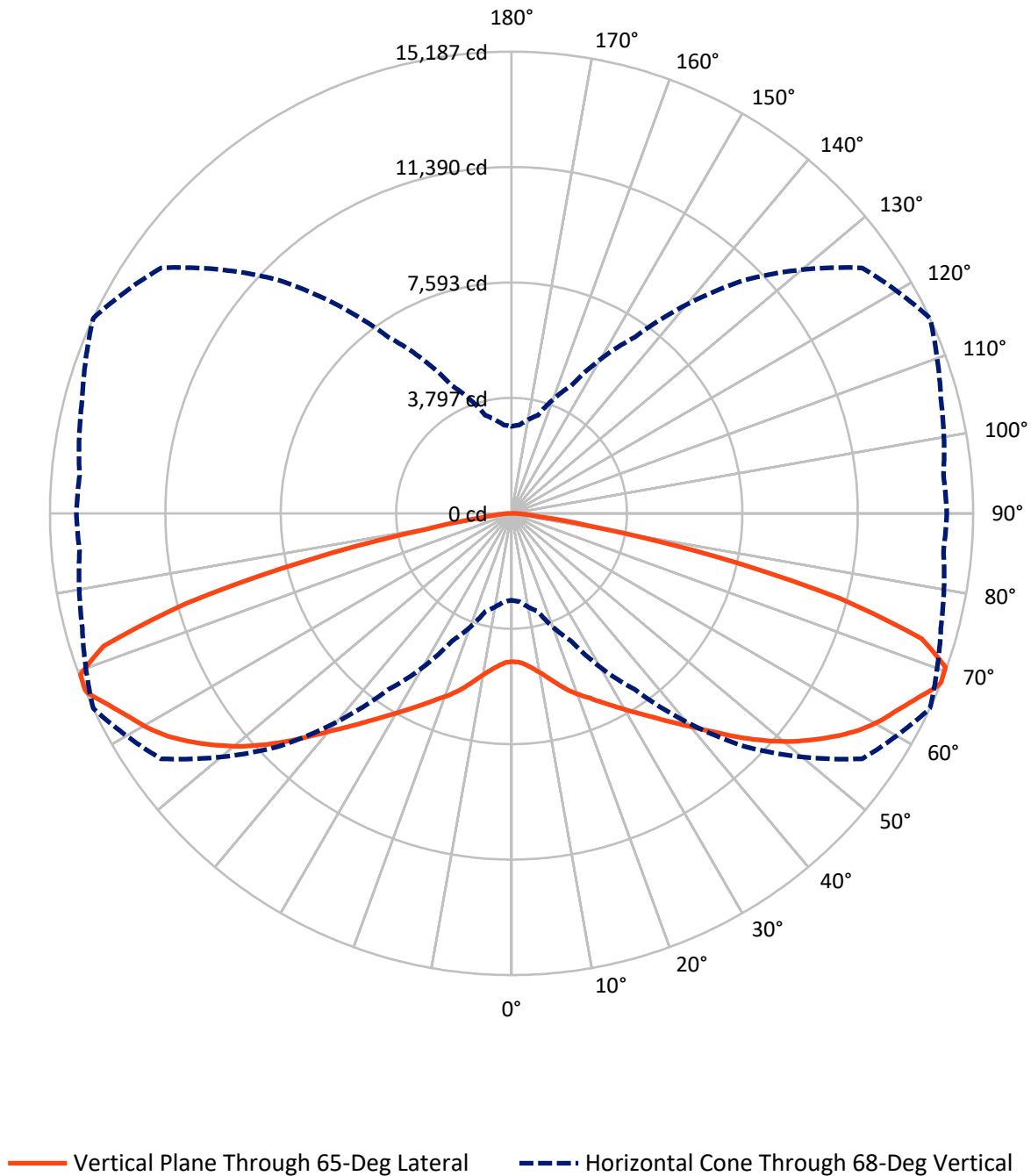
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23458.0	0.0	23458.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23458.0	0.0	23458.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46916.0	0.0	46916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.6	1.0
10°-20°	1599.2	3.4
20°-30°	3118.1	6.6
30°-40°	5238.1	11.2
40°-50°	8253.4	17.6
50°-60°	11037.6	23.5
60°-70°	10729.9	22.9
70°-80°	5865.5	12.5
80°-90°	596.5	1.3
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°	46916.0	100.0
0°-180°	46916.0	100.0

Coefficient of Utilization



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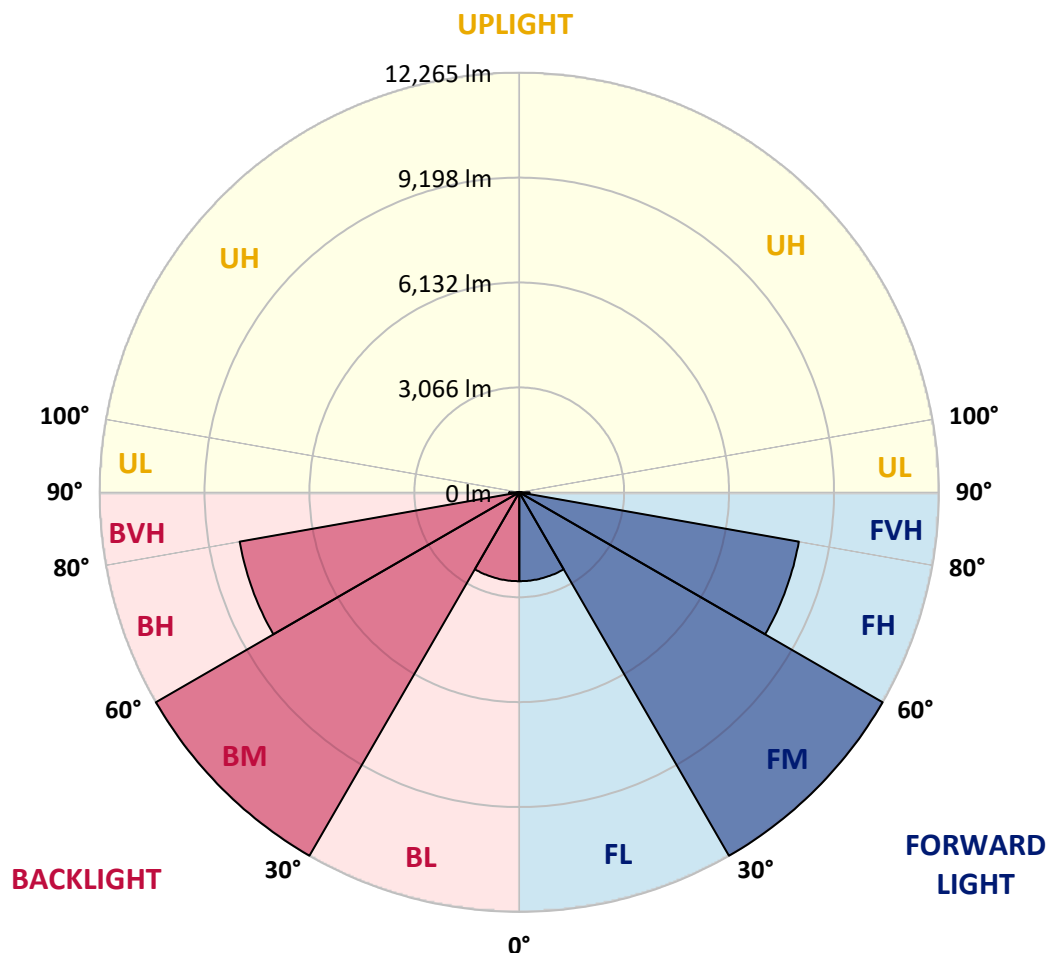
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2597.4	5.5			
FM	(30°-60°)	12264.6	26.1			
FH	(60°-80°)	8297.7	17.7			G4/12000
FVH	(80°-90°)	298.3	0.6			G3/500
BL	(0°-30°)	2597.4	5.5	B4/5000		
BM	(30°-60°)	12264.6	26.1	B5		
BH	(60°-80°)	8297.7	17.7	B5		G5
BVH	(80°-90°)	298.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4878.2	4878.2	4878.2	4878.2	4878.2	4878.2	4878.2	4878.2	4878.2	4878.2	4878.2
2.5°	4843.6	4845.1	4853.0	4862.4	4870.3	4890.7	4895.5	4903.3	4906.5	4914.3	4914.3
5°	4801.1	4804.2	4823.1	4848.3	4876.6	4926.9	4963.1	5004.0	5024.5	5046.5	5044.9
7.5°	4796.4	4804.2	4831.0	4871.9	4919.1	5002.4	5077.9	5159.7	5214.8	5265.1	5262.0
10°	4845.1	4857.7	4895.5	4956.8	5027.6	5131.4	5243.1	5353.2	5449.2	5526.3	5529.4
12.5°	4919.1	4934.8	4994.6	5087.4	5194.4	5328.1	5460.2	5584.5	5716.6	5831.5	5840.9
15°	5016.6	5037.0	5126.7	5265.1	5428.7	5587.6	5729.2	5856.6	6009.2	6168.1	6183.8
17.5°	5161.3	5189.6	5307.6	5494.8	5710.3	5884.9	6032.8	6128.8	6256.2	6419.8	6449.7
20°	5381.5	5417.7	5567.2	5790.6	6053.3	6235.7	6349.0	6369.5	6432.4	6578.7	6613.3
22.5°	5667.9	5699.3	5866.1	6131.9	6426.1	6624.3	6684.1	6602.3	6596.0	6714.0	6747.0
25°	5987.2	6015.5	6209.0	6507.9	6824.1	7042.7	7041.2	6882.3	6772.2	6863.4	6898.0
27.5°	6345.9	6389.9	6575.5	6890.1	7228.4	7443.9	7431.3	7185.9	6976.7	7000.3	7030.2
30°	6758.0	6806.8	6987.7	7307.0	7645.2	7856.0	7840.3	7516.2	7201.6	7138.7	7160.7
32.5°	7269.3	7327.5	7498.9	7813.6	8112.4	8302.8	8257.2	7874.9	7472.2	7335.3	7355.8
35°	7884.3	7918.9	8099.9	8409.8	8652.0	8782.6	8686.6	8290.2	7815.1	7649.9	7649.9
37.5°	8507.3	8534.0	8737.0	9037.4	9271.8	9341.0	9153.8	8744.8	8263.5	8029.1	8033.8
40°	9105.1	9177.4	9405.5	9713.8	9945.1	9964.0	9715.4	9263.9	8762.1	8519.9	8548.2
42.5°	9729.6	9800.4	10072.5	10421.7	10626.2	10657.7	10366.7	9846.0	9325.3	9128.7	9160.1
45°	10286.5	10343.1	10657.7	11063.6	11318.4	11400.2	11055.7	10513.0	9934.1	9742.2	9750.0
47.5°	10675.0	10748.9	11095.0	11573.2	11944.5	12070.3	11732.1	11162.7	10533.4	10300.6	10321.1
50°	11027.4	11066.7	11417.5	11939.8	12411.7	12671.3	12381.8	11804.5	11139.1	10892.1	10914.1
52.5°	11224.0	11274.4	11614.1	12158.4	12716.9	13135.3	12959.1	12381.8	11724.3	11483.6	11510.3
55°	11087.2	11124.9	11532.3	12207.2	12905.7	13421.6	13448.4	12946.6	12298.4	12087.6	12163.2
57.5°	10464.2	10511.4	11008.5	11892.6	12929.2	13615.1	13816.5	13470.4	12834.9	12663.4	12707.4
60°	9490.5	9520.4	10050.5	11044.7	12469.9	13695.3	14050.9	13898.3	13360.3	13188.8	13248.6
62.5°	7755.3	7799.4	8433.3	9765.8	11499.3	13457.8	14277.4	14252.2	13849.5	13692.2	13745.7
65°	5301.3	5378.4	6080.0	7764.8	10003.3	12731.0	14483.5	14664.4	14282.1	14083.9	14154.7
67.5°	3201.2	3257.9	3766.0	5126.7	7654.7	11264.9	14271.1	15133.2	14587.3	14267.9	14326.2
68°	2861.5	2913.4	3338.1	4626.5	7080.5	10851.2	14077.6	15186.6	14620.3	14264.8	14316.7
70°	1728.8	1763.4	2048.2	2859.9	4720.9	8608.0	12757.8	15142.6	14831.1	14308.8	14338.7
72.5°	1126.3	1137.3	1184.5	1467.7	2411.6	4813.7	9575.4	14110.6	15147.3	14565.3	14560.5
75°	936.0	929.7	934.4	967.5	1189.3	2111.1	5595.5	11146.9	14439.4	14161.0	14061.9
77.5°	791.3	786.5	785.0	786.5	796.0	1019.4	2428.9	6943.6	11049.4	12526.5	12614.6
80°	640.2	634.0	654.4	645.0	616.7	634.0	1017.8	2888.2	5208.5	5603.4	5251.0
82.5°	465.6	442.0	530.1	505.0	481.4	446.8	561.6	932.8	1242.7	852.6	599.3
85°	358.7	333.5	402.7	387.0	330.3	228.1	333.5	456.2	503.4	287.9	226.5
87.5°	146.3	154.2	291.0	229.7	193.5	110.1	136.9	182.5	245.4	122.7	94.4
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)