

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: P317223

Luminaire Tested: **GAN-SA9D-760-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317223
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-SA9D-760-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70905 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 575
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

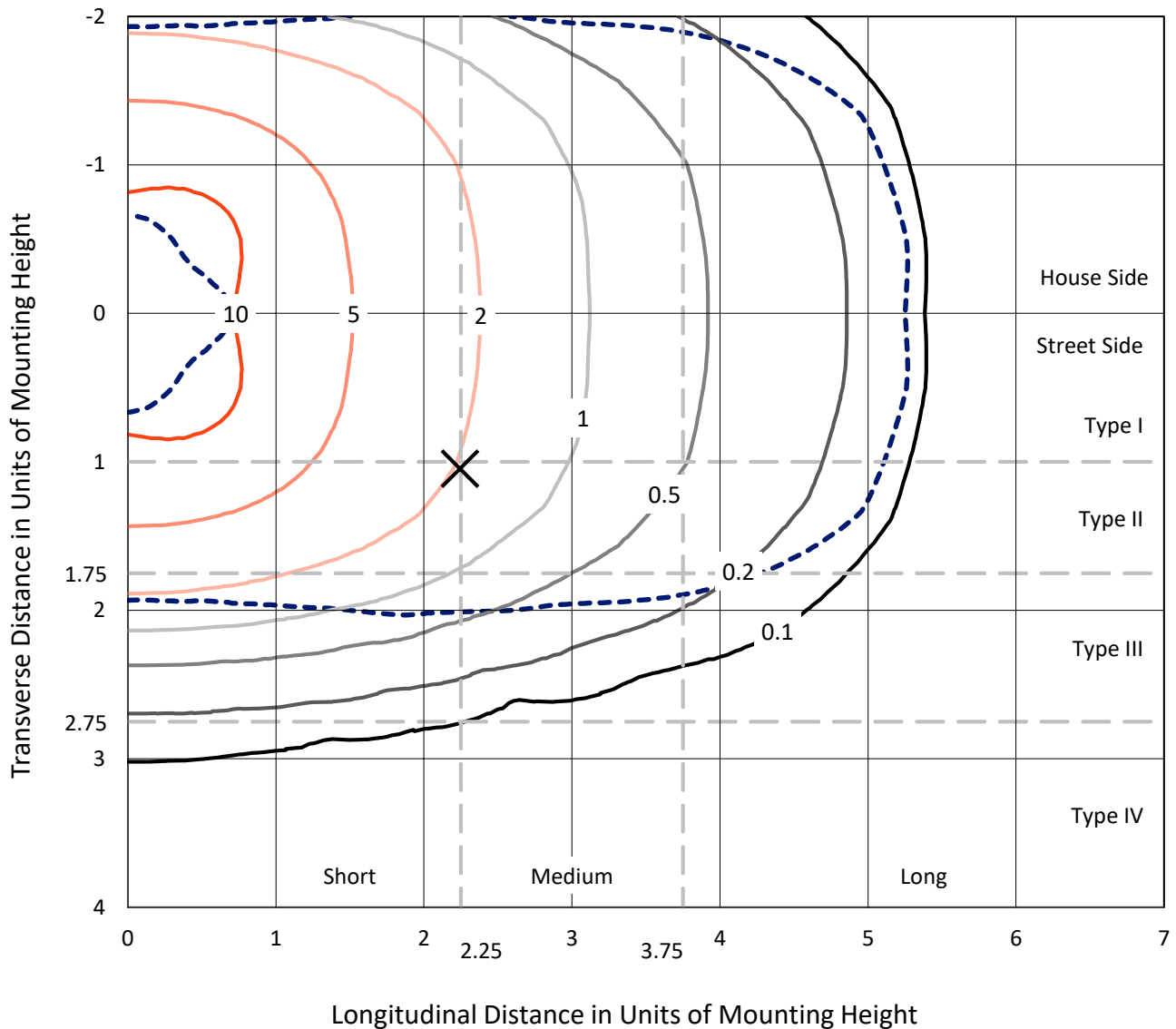


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Iso-Footcandle Lines of Horizontal Illumination

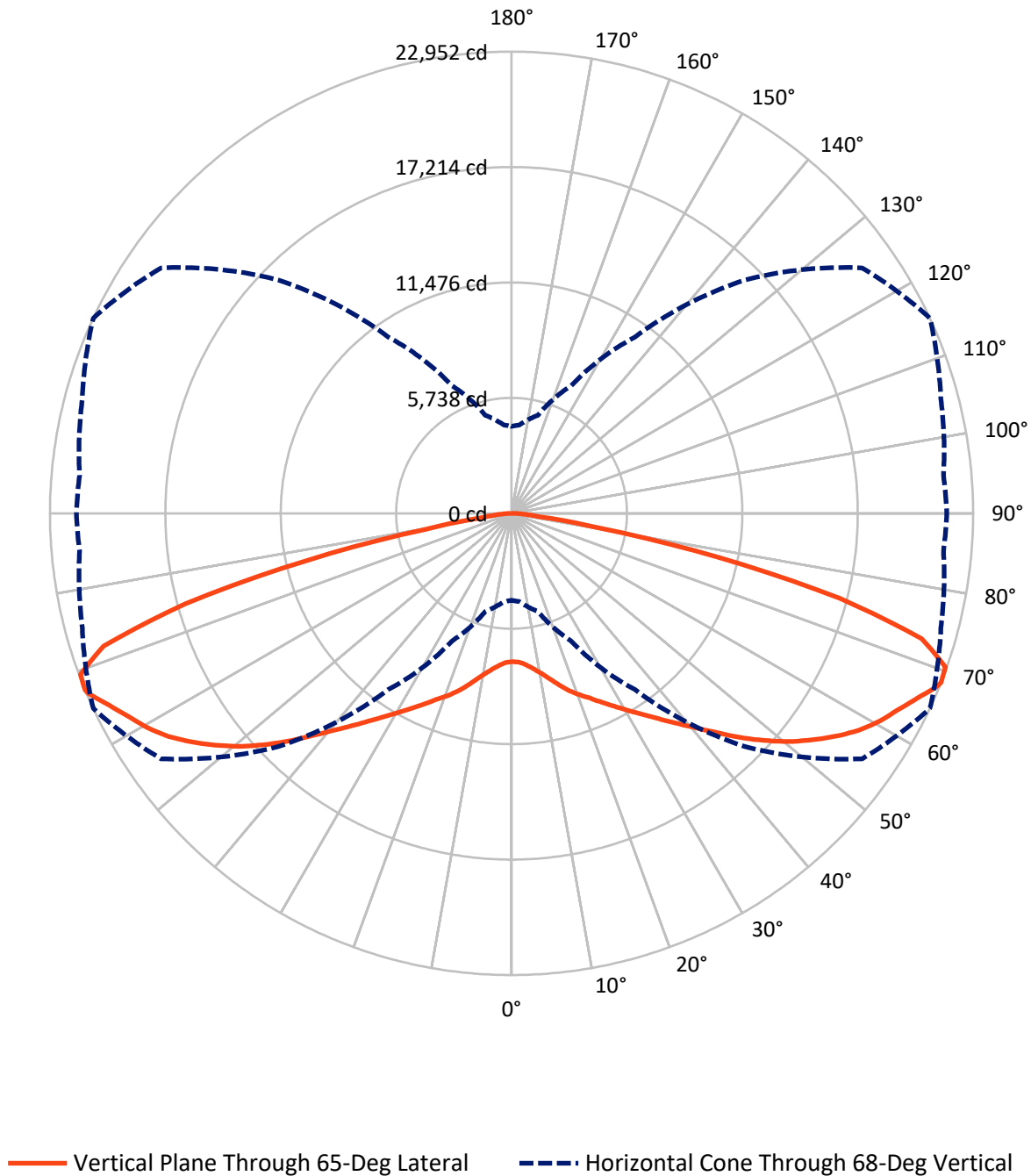
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	35452.5	0.0	35452.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35452.5	0.0	35452.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	70905.0	0.0	70905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.8	1.0
10°-20°	2416.9	3.4
20°-30°	4712.4	6.6
30°-40°	7916.5	11.2
40°-50°	12473.6	17.6
50°-60°	16681.3	23.5
60°-70°	16216.3	22.9
70°-80°	8864.6	12.5
80°-90°	901.6	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°	70905.0	100.0
0°-180°	70905.0	100.0

Coefficient of Utilization



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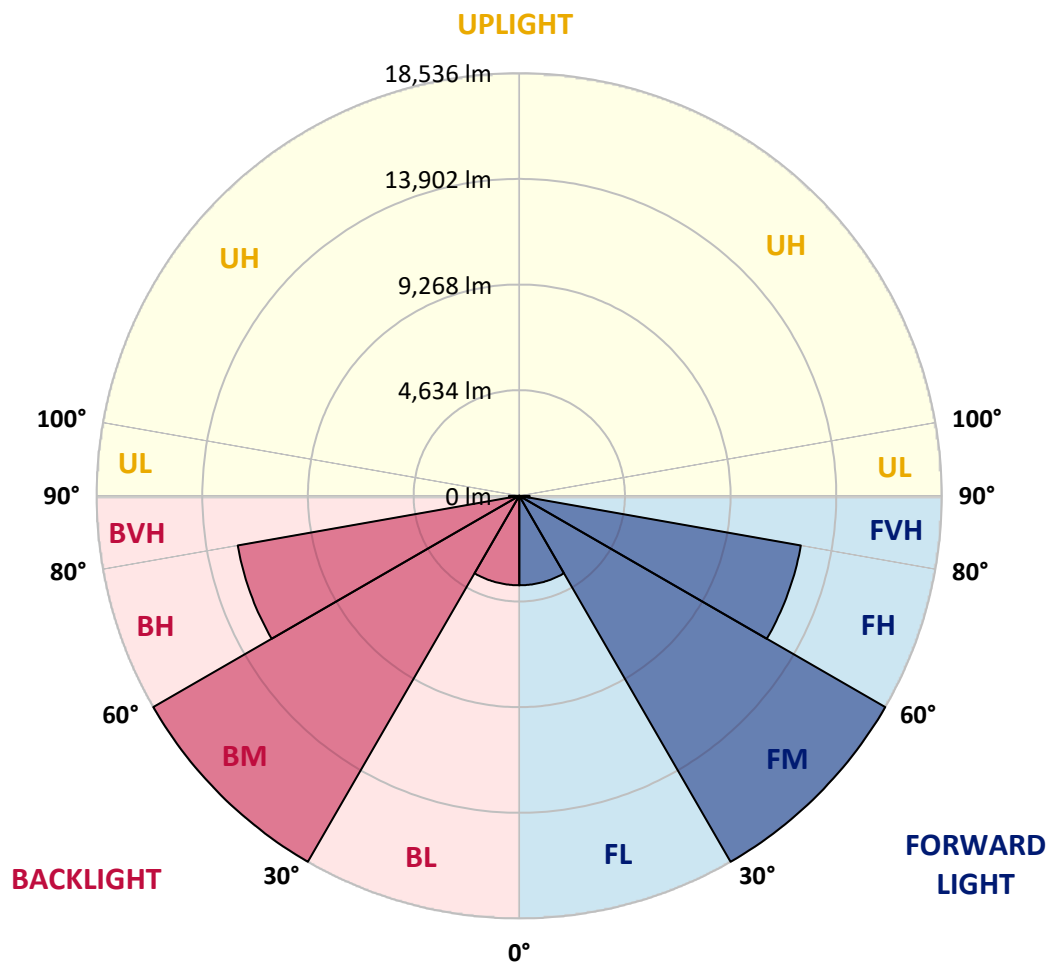
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3925.6	5.5			
FM	(30°-60°)	18535.7	26.1			
FH	(60°-80°)	12540.5	17.7			G5
FVH	(80°-90°)	450.8	0.6			G3/500
BL	(0°-30°)	3925.6	5.5	B4/5000		
BM	(30°-60°)	18535.7	26.1	B5		
BH	(60°-80°)	12540.5	17.7	B5		G5
BVH	(80°-90°)	450.8	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°	7372.5	7372.5	7372.5	7372.5	7372.5	7372.5	7372.5	7372.5	7372.5	7372.5	7372.5
2.5°	7320.1	7322.5	7334.4	7348.7	7360.6	7391.5	7398.6	7410.5	7415.2	7427.1	7427.1
5°	7256.0	7260.7	7289.2	7327.3	7370.1	7446.2	7500.8	7562.6	7593.6	7626.8	7624.5
7.5°	7248.8	7260.7	7301.1	7362.9	7434.3	7560.3	7674.4	7798.0	7881.2	7957.3	7952.5
10°	7322.5	7341.5	7398.6	7491.3	7598.3	7755.2	7924.0	8090.4	8235.5	8352.0	8356.7
12.5°	7434.3	7458.0	7548.4	7688.7	7850.3	8052.4	8252.1	8439.9	8639.6	8813.2	8827.4
15°	7581.7	7612.6	7748.1	7957.3	8204.6	8444.7	8658.6	8851.2	9081.8	9322.0	9345.7
17.5°	7800.4	7843.2	8021.5	8304.4	8630.1	8894.0	9117.5	9262.5	9455.1	9702.3	9747.5
20°	8133.2	8187.9	8413.8	8751.4	9148.4	9424.2	9595.4	9626.3	9721.4	9942.5	9994.8
22.5°	8565.9	8613.5	8865.5	9267.3	9711.9	10011.4	10101.8	9978.1	9968.6	10146.9	10196.9
25°	9048.5	9091.3	9383.8	9835.5	10313.3	10643.8	10641.4	10401.3	10234.9	10372.8	10425.1
27.5°	9590.6	9657.2	9937.7	10413.2	10924.4	11250.1	11231.0	10860.2	10544.0	10579.6	10624.8
30°	10213.5	10287.2	10560.6	11043.2	11554.4	11873.0	11849.2	11359.4	10883.9	10788.8	10822.1
32.5°	10986.2	11074.1	11333.3	11808.8	12260.5	12548.1	12479.2	11901.5	11292.9	11086.0	11116.9
35°	11915.7	11968.0	12241.5	12709.8	13075.9	13273.3	13128.2	12529.1	11811.1	11561.5	11561.5
37.5°	12857.2	12897.6	13204.3	13658.4	14012.7	14117.3	13834.3	13216.2	12488.7	12134.5	12141.6
40°	13760.6	13870.0	14214.7	14680.7	15030.2	15058.7	14683.1	14000.8	13242.4	12876.2	12919.0
42.5°	14704.5	14811.5	15222.8	15750.6	16059.6	16107.2	15667.4	14880.4	14093.5	13796.3	13843.9
45°	15546.1	15631.7	16107.2	16720.6	17105.7	17229.3	16708.7	15888.5	15013.6	14723.5	14735.4
47.5°	16133.3	16245.1	16768.1	17490.9	18051.9	18242.1	17731.0	16870.3	15919.4	15567.5	15598.4
50°	16665.9	16725.3	17255.5	18044.8	18758.0	19150.3	18712.9	17840.3	16834.7	16461.4	16494.7
52.5°	16963.1	17039.1	17552.7	18375.3	19219.3	19851.7	19585.4	18712.9	17719.1	17355.3	17395.8
55°	16756.2	16813.3	17429.0	18449.0	19504.5	20284.3	20324.8	19566.4	18586.9	18268.3	18382.4
57.5°	15814.8	15886.1	16637.3	17973.5	19540.2	20576.8	20881.1	20358.0	19397.6	19138.4	19205.0
60°	14343.1	14388.3	15189.5	16692.0	18846.0	20698.0	21235.3	21004.7	20191.6	19932.5	20022.8
62.5°	11720.8	11787.4	12745.5	14759.2	17379.1	20339.0	21577.7	21539.6	20931.0	20693.3	20774.1
65°	8012.0	8128.5	9188.8	11735.1	15118.2	19240.6	21889.1	22162.5	21584.8	21285.2	21392.2
67.5°	4838.1	4923.7	5691.6	7748.1	11568.6	17024.9	21568.2	22871.0	22046.0	21563.4	21651.4
68°	4324.6	4403.0	5044.9	6992.1	10700.9	16399.6	21275.7	22951.8	22096.0	21558.7	21637.1
70°	2612.8	2665.1	3095.4	4322.2	7134.7	13009.4	19281.1	22885.3	22414.5	21625.2	21670.4
72.5°	1702.2	1718.9	1790.2	2218.2	3644.6	7275.0	14471.5	21325.7	22892.4	22012.7	22005.6
75°	1414.6	1405.1	1412.2	1462.1	1797.3	3190.5	8456.6	16846.6	21822.6	21401.7	21252.0
77.5°	1195.9	1188.7	1186.3	1188.7	1203.0	1540.6	3670.8	10494.0	16699.2	18931.6	19064.7
80°	967.6	958.1	989.0	974.8	932.0	958.1	1538.2	4365.0	7871.7	8468.5	7935.9
82.5°	703.7	668.1	801.2	763.2	727.5	675.2	848.7	1409.8	1878.2	1288.6	905.8
85°	542.1	504.0	608.6	584.9	499.3	344.7	504.0	689.5	760.8	435.1	342.4
87.5°	221.1	233.0	439.8	347.1	292.4	166.4	206.8	275.8	370.9	185.4	142.6
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)