

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: McGRAW-EDISON

Report Number: P458108

Luminaire Tested: **GALN-SA9C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60576 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

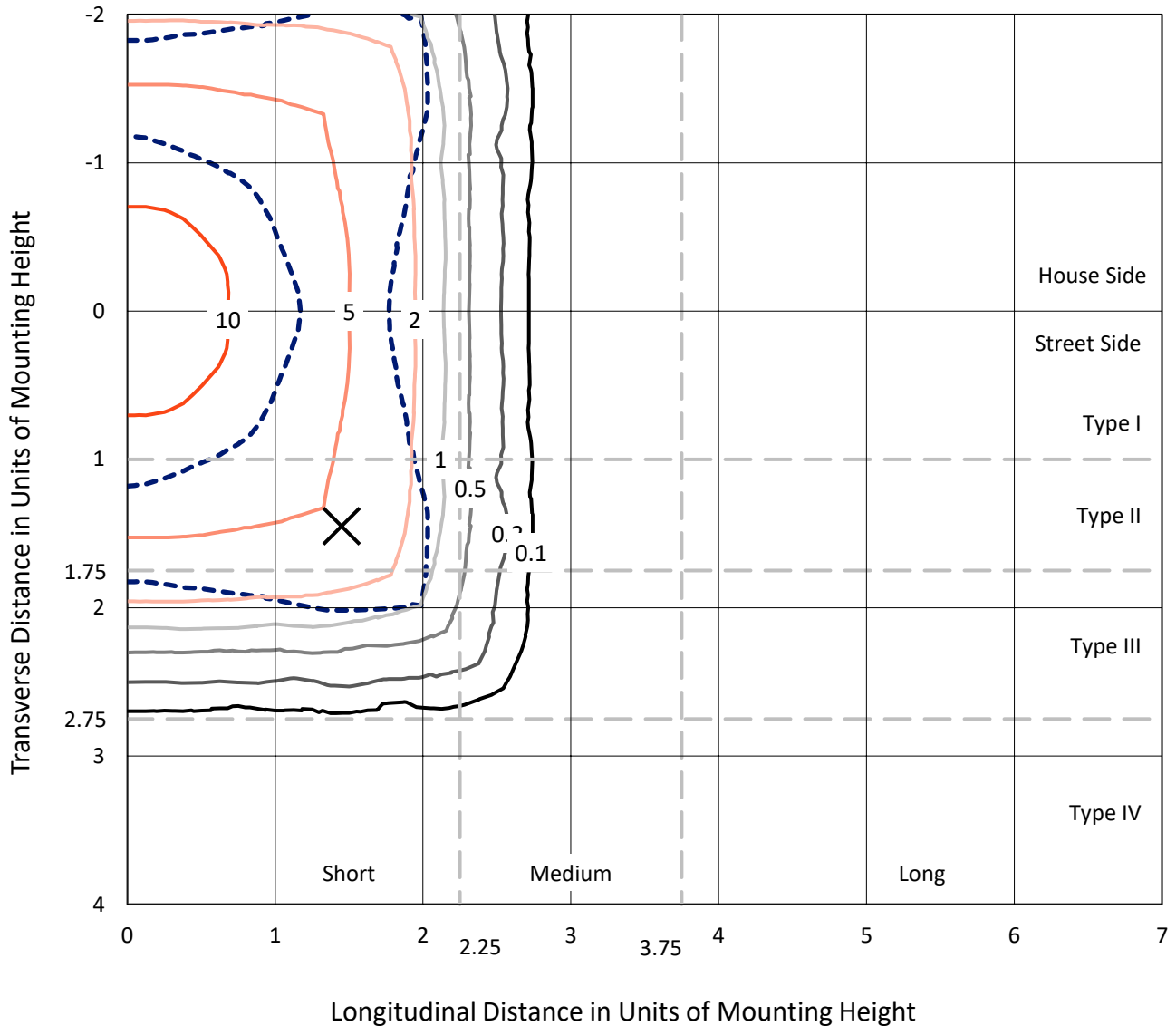
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

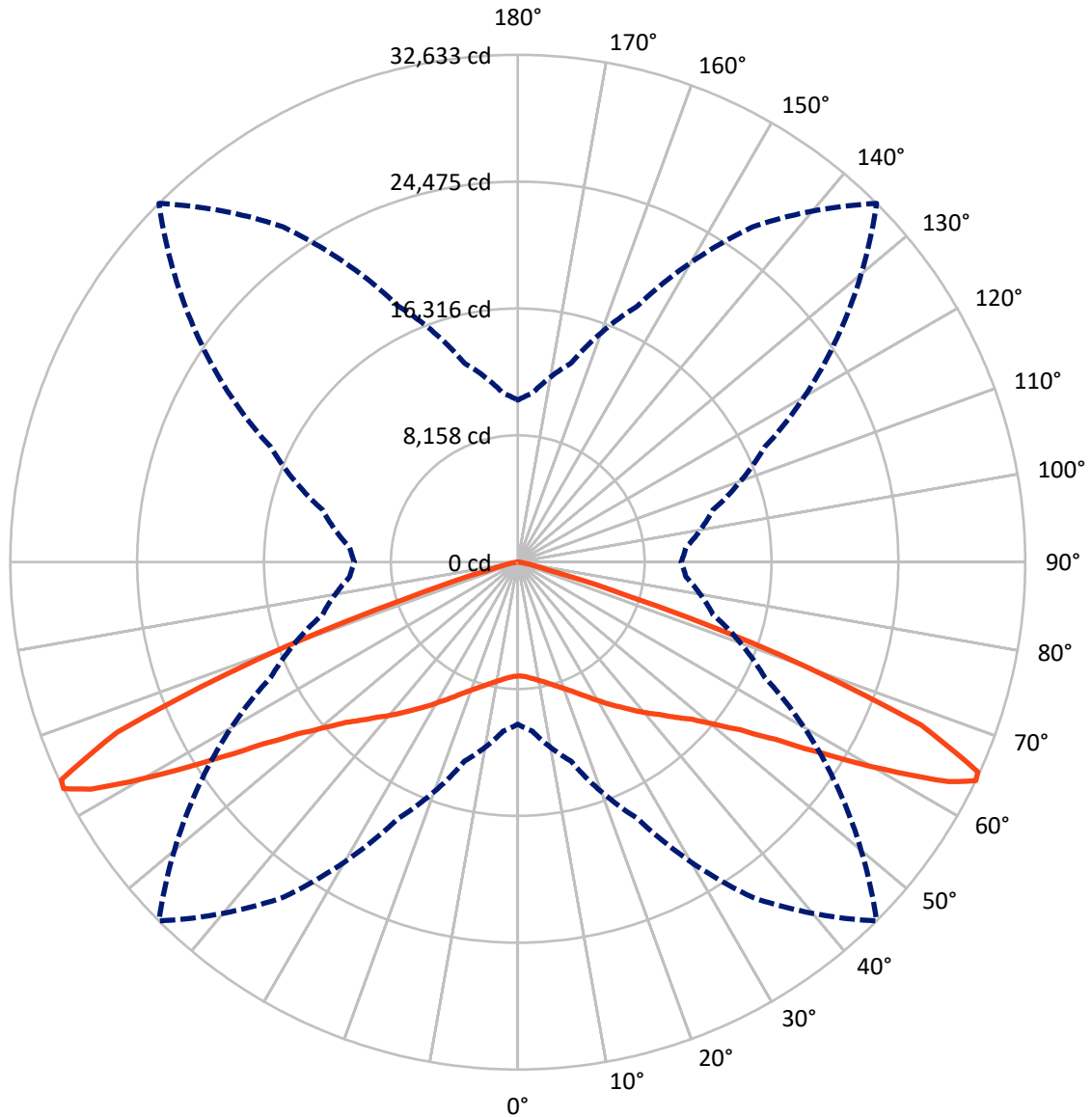
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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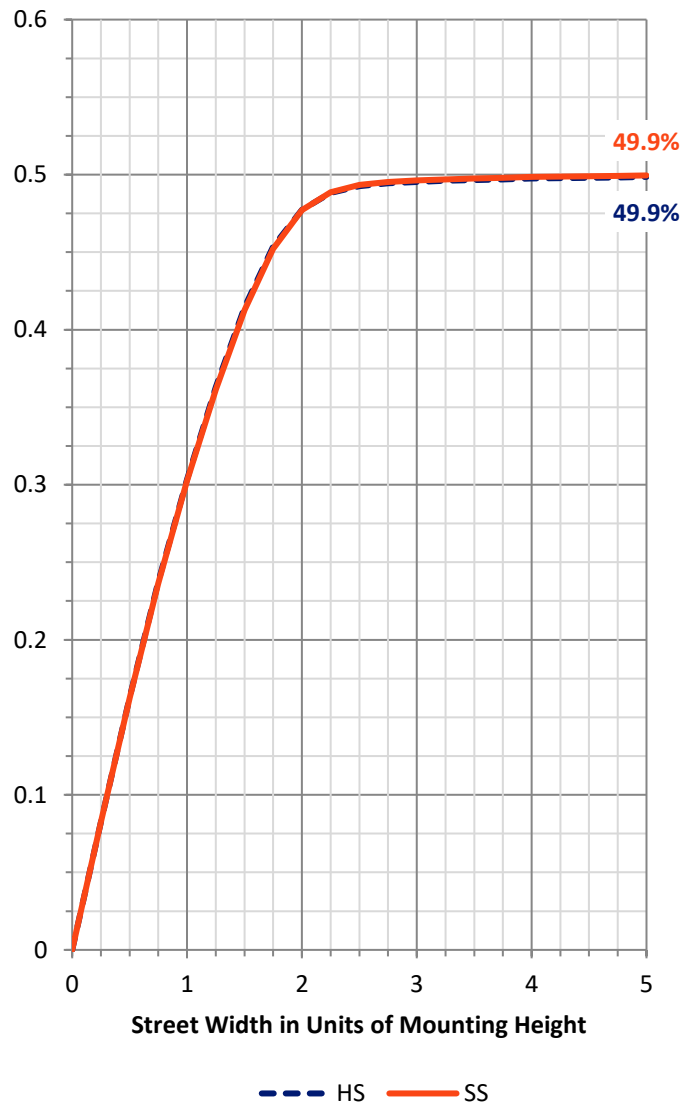
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30288.0	0.0	30288.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30288.0	0.0	30288.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	60576.0	0.0	60576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	1.2
10°-20°	2320.2	3.8
20°-30°	4384.5	7.2
30°-40°	7261.3	12.0
40°-50°	11336.0	18.7
50°-60°	17525.2	28.9
60°-70°	15111.8	24.9
70°-80°	1712.5	2.8
80°-90°	205.2	0.3
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°	60576.0	100.0
0°-180°	60576.0	100.0



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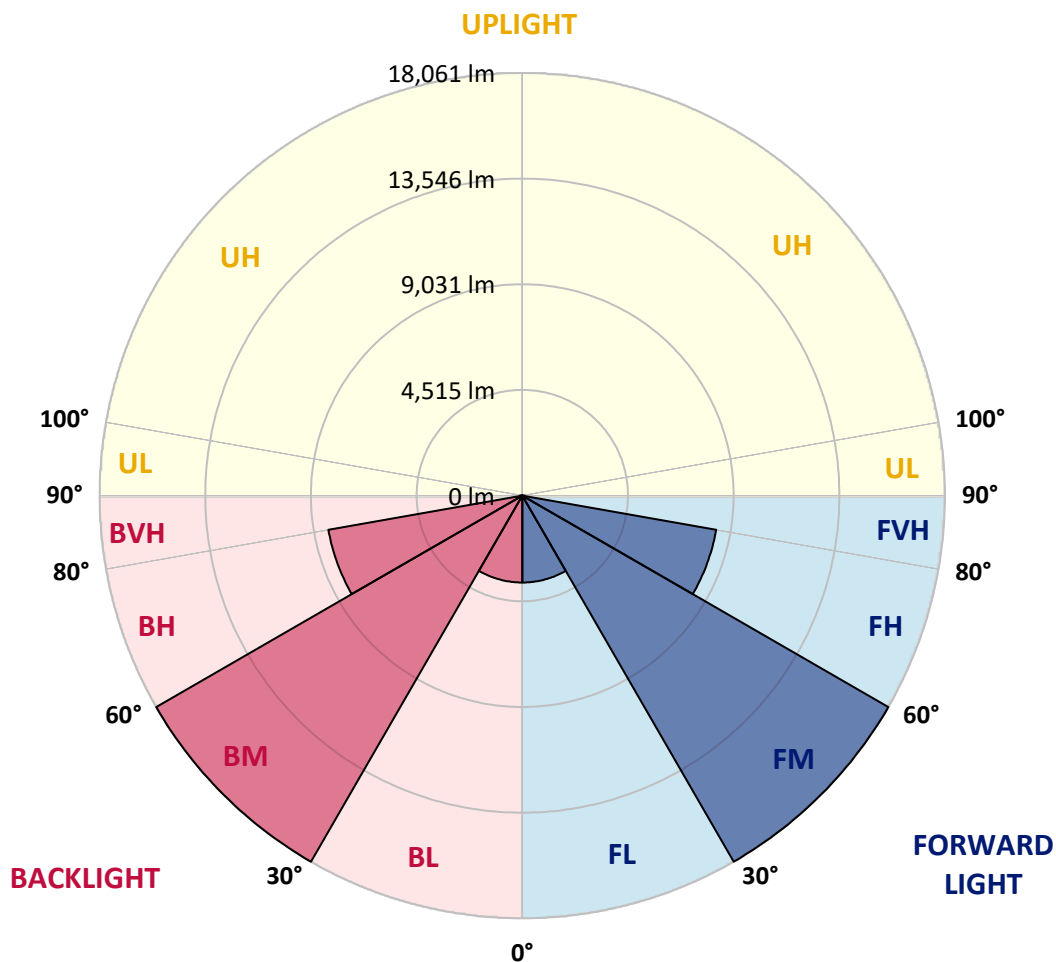
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3712.0	6.1			
FM	(30°-60°)	18061.2	29.8			
FH	(60°-80°)	8412.2	13.9			G4/12000
FVH	(80°-90°)	102.6	0.2			G2/225
BL	(0°-30°)	3712.0	6.1	B4/5000		
BM	(30°-60°)	18061.2	29.8	B5		
BH	(60°-80°)	8412.2	13.9	B5		G4/12000
BVH	(80°-90°)	102.6	0.2			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°	7321.6	7321.6	7321.6	7321.6	7321.6	7321.6	7321.6	7321.6	7321.6	7321.6	7321.6
2.5°	7350.5	7366.5	7353.7	7350.5	7347.3	7347.3	7347.3	7350.5	7363.3	7373.0	7366.5
5°	7443.5	7456.4	7450.0	7446.8	7443.5	7446.8	7440.3	7437.1	7446.8	7446.8	7443.5
7.5°	7559.1	7575.1	7568.7	7575.1	7578.3	7581.5	7565.5	7552.6	7549.4	7559.1	7552.6
10°	7716.3	7729.1	7732.3	7735.5	7741.9	7738.7	7719.5	7697.0	7693.8	7690.6	7687.4
12.5°	7892.7	7902.4	7905.6	7918.4	7928.0	7931.2	7908.8	7889.5	7857.4	7863.9	7851.0
15°	8091.7	8110.9	8107.7	8126.9	8152.6	8159.0	8136.6	8104.5	8075.6	8059.6	8049.9
17.5°	8335.5	8348.3	8341.9	8361.2	8393.2	8409.3	8390.0	8348.3	8319.4	8284.2	8264.9
20°	8624.2	8646.7	8653.1	8653.1	8682.0	8698.0	8669.2	8656.3	8611.4	8585.7	8569.7
22.5°	8951.5	8961.1	8980.4	8999.6	9028.5	9022.1	9012.5	8993.2	8951.5	8929.0	8903.4
25°	9320.5	9330.1	9378.2	9419.9	9429.6	9423.1	9410.3	9400.7	9362.2	9310.9	9291.6
27.5°	9750.4	9769.7	9833.8	9872.3	9872.3	9875.5	9849.9	9882.0	9798.5	9737.6	9731.2
30°	10289.4	10302.3	10356.8	10395.3	10376.0	10360.0	10353.6	10385.7	10295.8	10186.8	10161.1
32.5°	10822.0	10866.9	10915.1	10998.5	10931.1	10902.2	10895.8	10918.3	10815.6	10693.7	10658.4
35°	11393.1	11425.2	11515.0	11585.6	11524.7	11457.3	11486.2	11556.8	11434.8	11271.2	11264.8
37.5°	12025.2	12054.1	12169.6	12243.4	12198.4	12082.9	12131.1	12214.5	12092.6	11890.4	11848.7
40°	12682.9	12743.9	12888.2	12965.2	12891.5	12737.5	12827.3	12917.1	12808.0	12573.8	12480.8
42.5°	13420.8	13517.1	13725.6	13764.1	13623.0	13414.4	13571.6	13716.0	13639.0	13369.5	13334.2
45°	14283.9	14341.7	14598.3	14681.8	14486.0	14226.2	14421.9	14685.0	14627.2	14316.0	14248.6
47.5°	15249.6	15304.2	15570.5	15695.6	15448.6	15098.9	15451.8	15795.1	15759.8	15426.1	15394.0
50°	16391.8	16404.7	16773.7	16914.8	16667.8	16366.2	16680.6	17107.3	16966.2	16539.4	16533.0
52.5°	17643.1	17659.2	18124.4	18397.1	18259.2	17919.1	18291.2	18551.1	18191.8	17633.5	17591.8
55°	18727.6	18807.8	19443.1	20168.2	20357.5	20110.4	20222.7	20100.8	19215.3	18432.4	18310.5
57.5°	19170.3	19327.6	20293.3	21647.3	22879.3	23245.0	22378.8	21217.3	19622.7	18515.8	18397.1
60°	18089.1	18259.2	19757.5	22327.4	25471.7	27059.9	24624.7	21406.6	18695.5	17139.4	16953.3
62.5°	14486.0	14534.2	16738.4	20726.4	26982.9	31096.1	25571.2	19792.8	15997.2	13882.9	13809.1
64°	10424.2	10918.3	13254.0	18172.5	26321.9	32632.9	25025.7	17530.8	12994.1	10854.1	10507.6
65°	7796.5	7931.2	10684.1	15519.2	25157.3	32517.4	23966.9	15368.4	10761.1	8306.6	7921.6
67.5°	2945.3	2961.4	3943.2	7735.5	17909.4	27977.5	18291.2	8361.2	4533.5	3279.0	3160.3
70°	1222.4	1244.9	1447.0	2602.0	7697.0	17964.0	8820.0	3015.9	1658.8	1344.3	1325.1
72.5°	895.2	908.0	968.9	1155.0	2367.8	7376.2	2900.4	1280.2	972.2	869.5	859.9
75°	702.6	709.1	754.0	850.2	1103.7	2043.8	1206.4	879.1	741.1	667.4	660.9
77.5°	535.8	551.8	583.9	648.1	741.1	968.9	798.9	657.7	571.1	510.1	500.5
80°	369.0	388.2	449.2	474.8	497.3	628.9	545.4	497.3	446.0	372.2	349.7
82.5°	227.8	240.6	301.6	324.1	314.4	352.9	349.7	356.1	317.6	231.0	215.0
85°	118.7	125.1	163.6	170.0	157.2	144.4	179.7	208.5	195.7	131.5	128.3
87.5°	25.7	28.9	35.3	32.1	35.3	35.3	44.9	67.4	70.6	44.9	41.7
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)