

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: P529344

Luminaire Tested: **GALN-SA4C-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21488 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

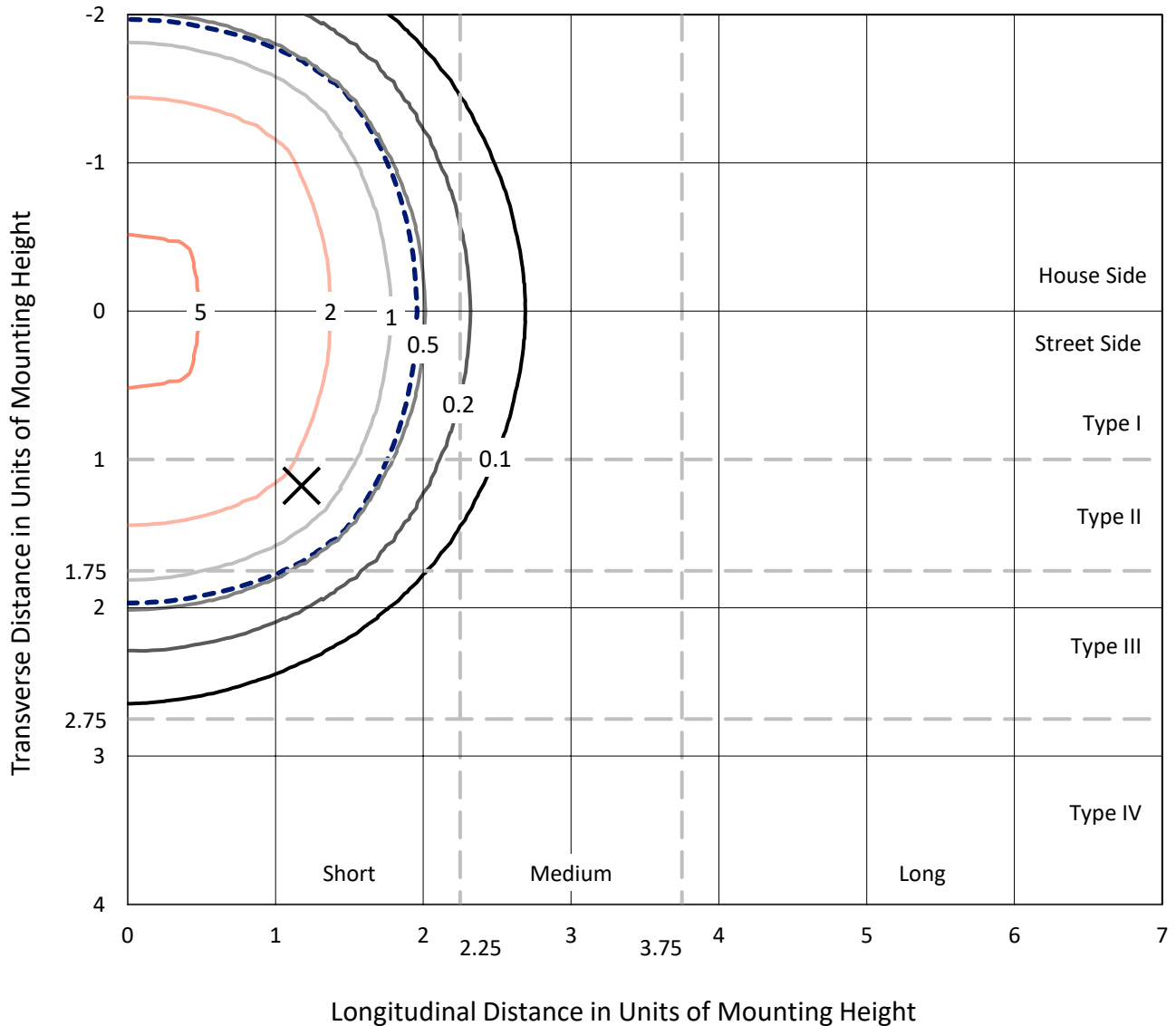
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529344
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Iso-Footcandle Lines of Horizontal Illumination

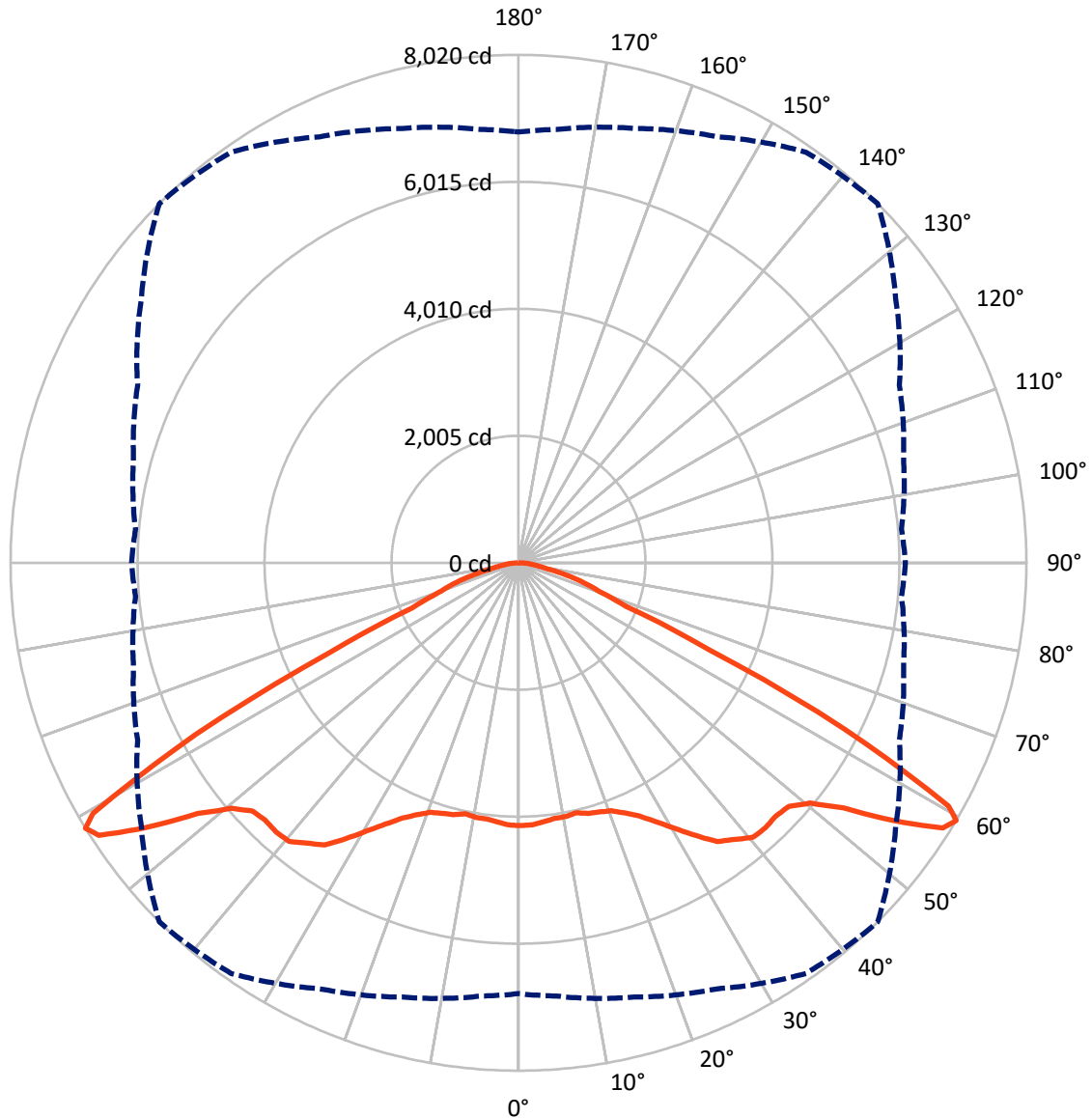
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

REPORT NUMBER: P529344
CATALOG NUMBER: GALN-SA4C-730-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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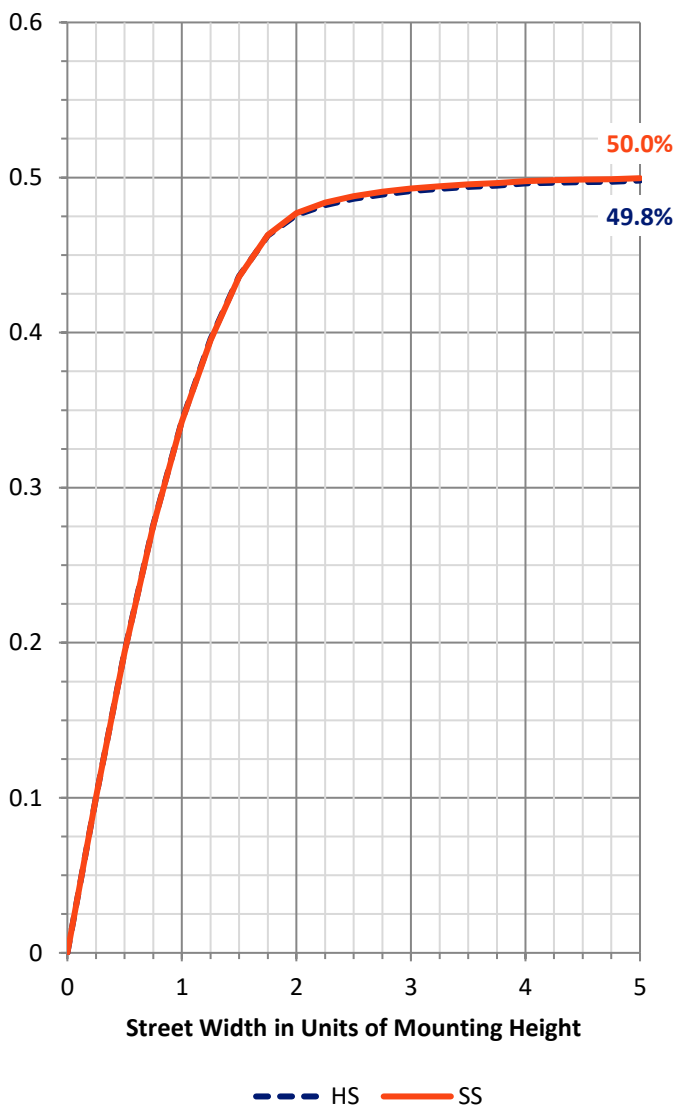
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10744.0	0.0	10744.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10744.0	0.0	10744.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21488.0	0.0	21488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	1.8
10°-20°	1163.5	5.4
20°-30°	2031.6	9.5
30°-40°	3244.8	15.1
40°-50°	4420.1	20.6
50°-60°	5977.2	27.8
60°-70°	3277.9	15.3
70°-80°	838.6	3.9
80°-90°	143.0	0.7
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°	21488.0	100.0
0°-180°	21488.0	100.0

Coefficient of Utilization



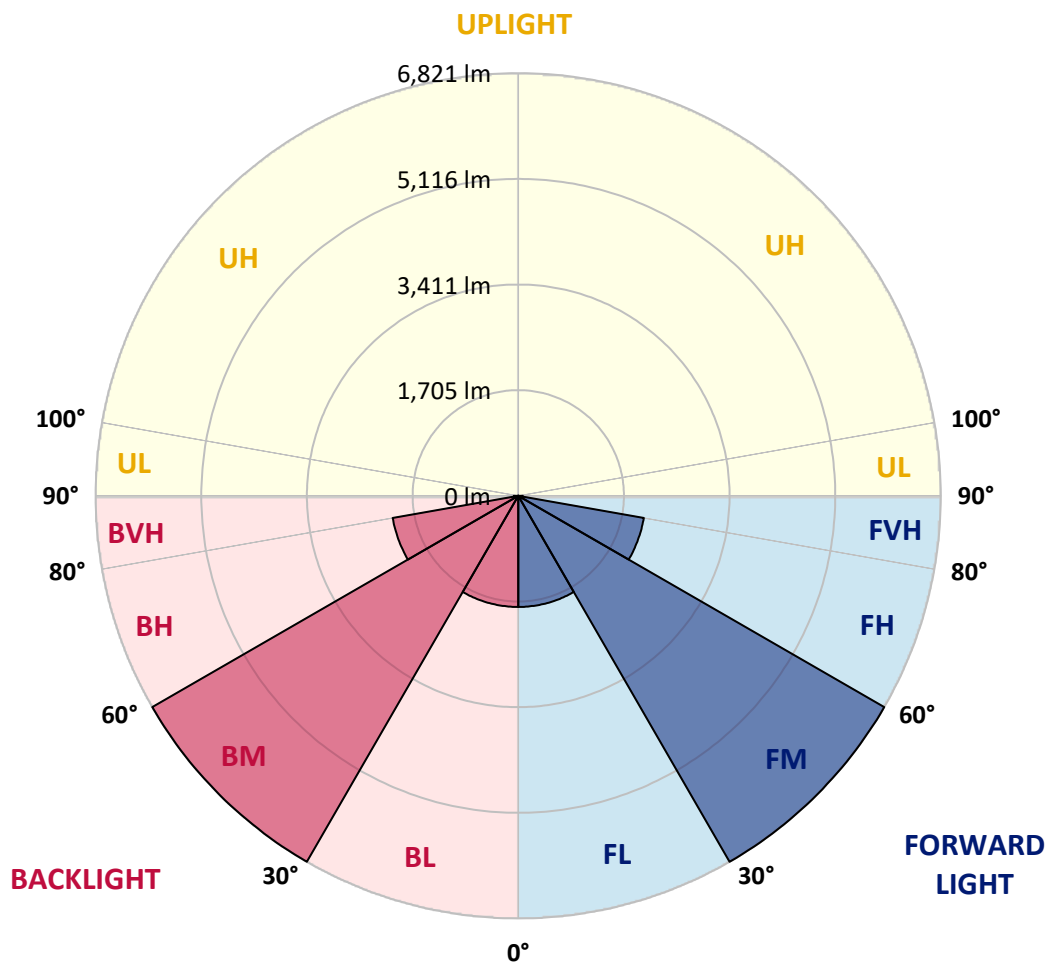
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.2	8.3			
FM (30°-60°)	6821.0	31.7			
FH (60°-80°)	2058.2	9.6			G2/5000
FVH (80°-90°)	71.5	0.3			G1/100
BL (0°-30°)	1793.2	8.3	B3/2500		
BM (30°-60°)	6821.0	31.7	B4/8500		
BH (60°-80°)	2058.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	71.5	0.3			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°	4150.5	4150.5	4150.5	4150.5	4150.5	4150.5	4150.5	4150.5	4150.5	4150.5	4150.5
2.5°	4125.7	4156.0	4133.9	4153.2	4150.5	4142.2	4128.4	4120.2	4109.1	4125.7	4098.1
5°	4109.1	4133.9	4158.7	4125.7	4125.7	4109.1	4100.9	4084.4	4084.4	4081.6	4078.8
7.5°	4136.7	4111.9	4100.9	4106.4	4111.9	4076.1	4100.9	4067.8	4040.3	4059.6	4081.6
10°	4111.9	4122.9	4081.6	4100.9	4070.6	4076.1	4059.6	4081.6	4051.3	4051.3	4051.3
12.5°	4136.7	4106.4	4120.2	4106.4	4098.1	4051.3	4073.3	4048.6	4045.8	4073.3	4048.6
15°	4186.3	4136.7	4125.7	4098.1	4106.4	4106.4	4084.4	4087.1	4056.8	4073.3	4078.8
17.5°	4169.7	4142.2	4133.9	4100.9	4128.4	4136.7	4095.4	4067.8	4087.1	4084.4	4081.6
20°	4183.5	4194.5	4186.3	4191.8	4202.8	4180.7	4142.2	4103.6	4078.8	4114.7	4111.9
22.5°	4271.6	4260.6	4255.1	4249.6	4268.9	4290.9	4238.6	4178.0	4178.0	4202.8	4213.8
25°	4343.2	4340.5	4337.7	4362.5	4428.6	4428.6	4362.5	4285.4	4266.1	4282.7	4268.9
27.5°	4447.9	4478.2	4467.2	4511.2	4607.6	4629.7	4541.5	4450.7	4398.3	4379.0	4403.8
30°	4687.5	4651.7	4660.0	4706.8	4792.2	4863.8	4728.8	4632.4	4560.8	4558.1	4569.1
32.5°	4847.2	4874.8	4899.6	4943.6	5078.6	5133.7	4971.2	4814.2	4770.1	4745.3	4753.6
35°	5166.7	5141.9	5136.4	5180.5	5315.4	5406.3	5202.5	5064.8	5007.0	5062.1	5062.1
37.5°	5469.7	5400.8	5348.5	5406.3	5530.3	5541.3	5367.8	5293.4	5263.1	5326.5	5323.7
40°	5612.9	5607.4	5486.2	5519.3	5684.5	5701.0	5538.5	5450.4	5444.9	5527.5	5610.1
42.5°	5761.6	5709.3	5588.1	5610.1	5712.0	5717.5	5563.3	5538.5	5599.1	5679.0	5684.5
45°	5786.4	5742.3	5665.2	5610.1	5684.5	5701.0	5610.1	5626.7	5632.2	5728.6	5728.6
47.5°	5836.0	5830.5	5786.4	5745.1	5758.9	5745.1	5687.3	5712.0	5794.7	5841.5	5819.4
50°	5973.7	5915.8	5959.9	5924.1	5926.9	5965.4	5913.1	5937.9	5921.4	5880.0	5852.5
52.5°	6276.6	6249.1	6287.6	6312.4	6340.0	6428.1	6367.5	6235.3	6111.4	6001.2	5998.5
55°	6720.0	6739.3	6813.7	6940.4	7047.8	7188.2	6896.3	6579.6	6381.3	6207.8	6218.8
57.5°	7138.7	7124.9	7226.8	7516.0	7830.0	7901.6	7328.7	6877.0	6554.8	6444.6	6397.8
59°	6802.7	6868.8	7100.1	7422.3	7915.3	8020.0	7270.9	6634.7	6293.2	6070.1	6108.6
60°	6273.9	6298.7	6505.2	6954.1	7620.6	7799.7	6882.5	6260.1	5805.7	5676.2	5734.1
62.5°	4434.1	4414.8	4563.6	4929.9	5527.5	5769.9	5117.1	4679.2	4392.8	4249.6	4282.7
65°	2357.5	2445.7	2506.2	2734.8	3051.6	3307.7	3037.8	2847.8	2688.0	2569.6	2566.8
67.5°	1591.9	1580.9	1594.6	1647.0	1754.4	1826.0	1820.5	1724.1	1710.3	1688.3	1713.1
70°	1341.3	1335.7	1311.0	1311.0	1333.0	1349.5	1368.8	1379.8	1401.8	1429.4	1426.6
72.5°	1087.9	1074.1	1057.6	1049.3	1076.9	1085.1	1109.9	1120.9	1140.2	1137.5	1162.2
75°	718.8	718.8	738.1	760.1	768.4	784.9	787.7	820.7	820.7	826.2	804.2
77.5°	402.1	391.1	404.9	426.9	446.2	476.5	506.8	531.5	545.3	539.8	539.8
80°	234.1	234.1	247.9	272.7	297.4	325.0	347.0	366.3	380.1	374.6	363.5
82.5°	146.0	146.0	159.7	184.5	203.8	220.3	250.6	275.4	291.9	286.4	272.7
85°	74.4	74.4	90.9	107.4	132.2	143.2	140.5	129.4	126.7	112.9	112.9
87.5°	19.3	19.3	27.5	30.3	24.8	27.5	27.5	27.5	27.5	27.5	30.3
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)