

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: P650842

Luminaire Tested: **GALN-SA4C-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20494.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

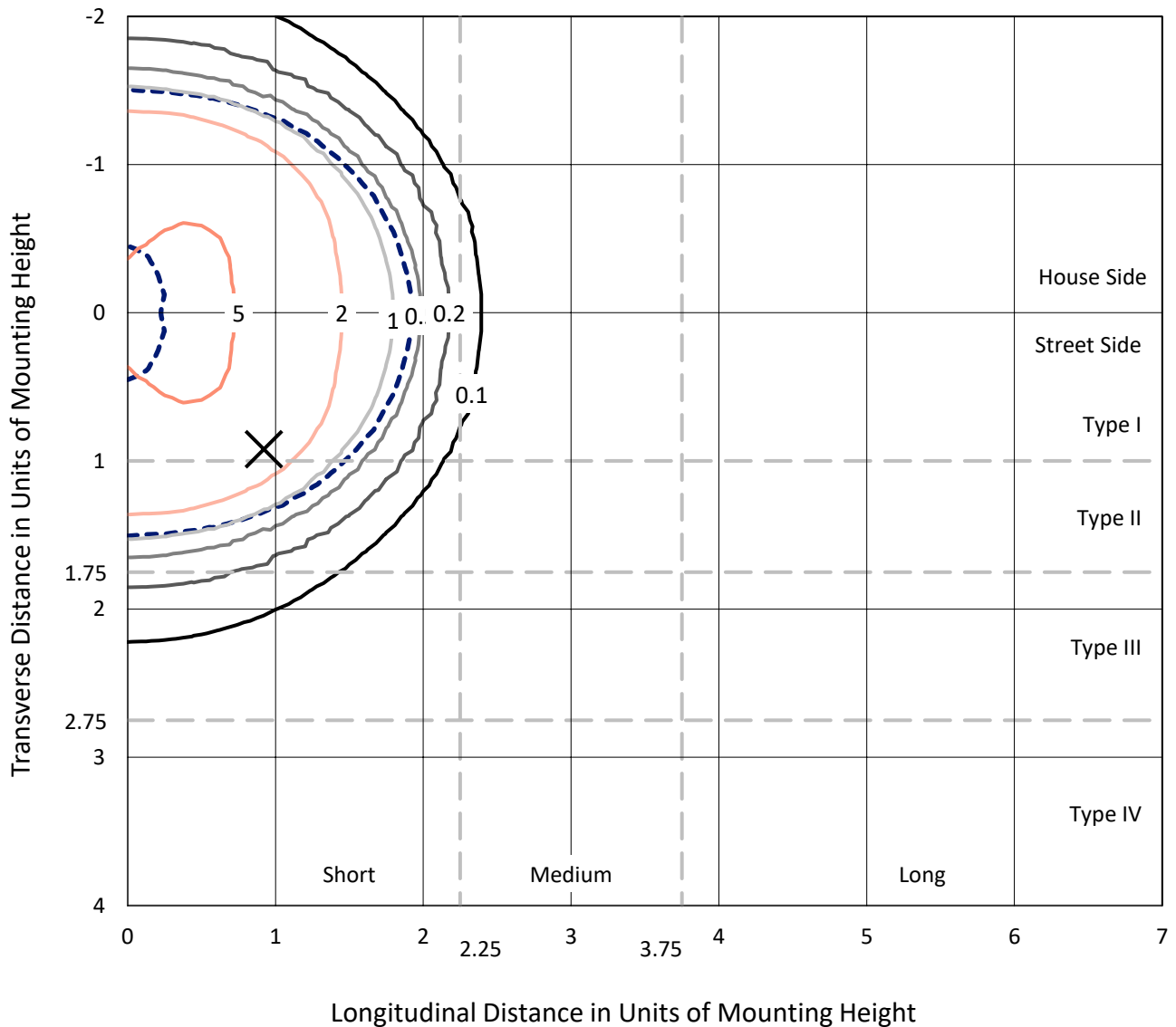
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650842
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Iso-Footcandle Lines of Horizontal Illumination

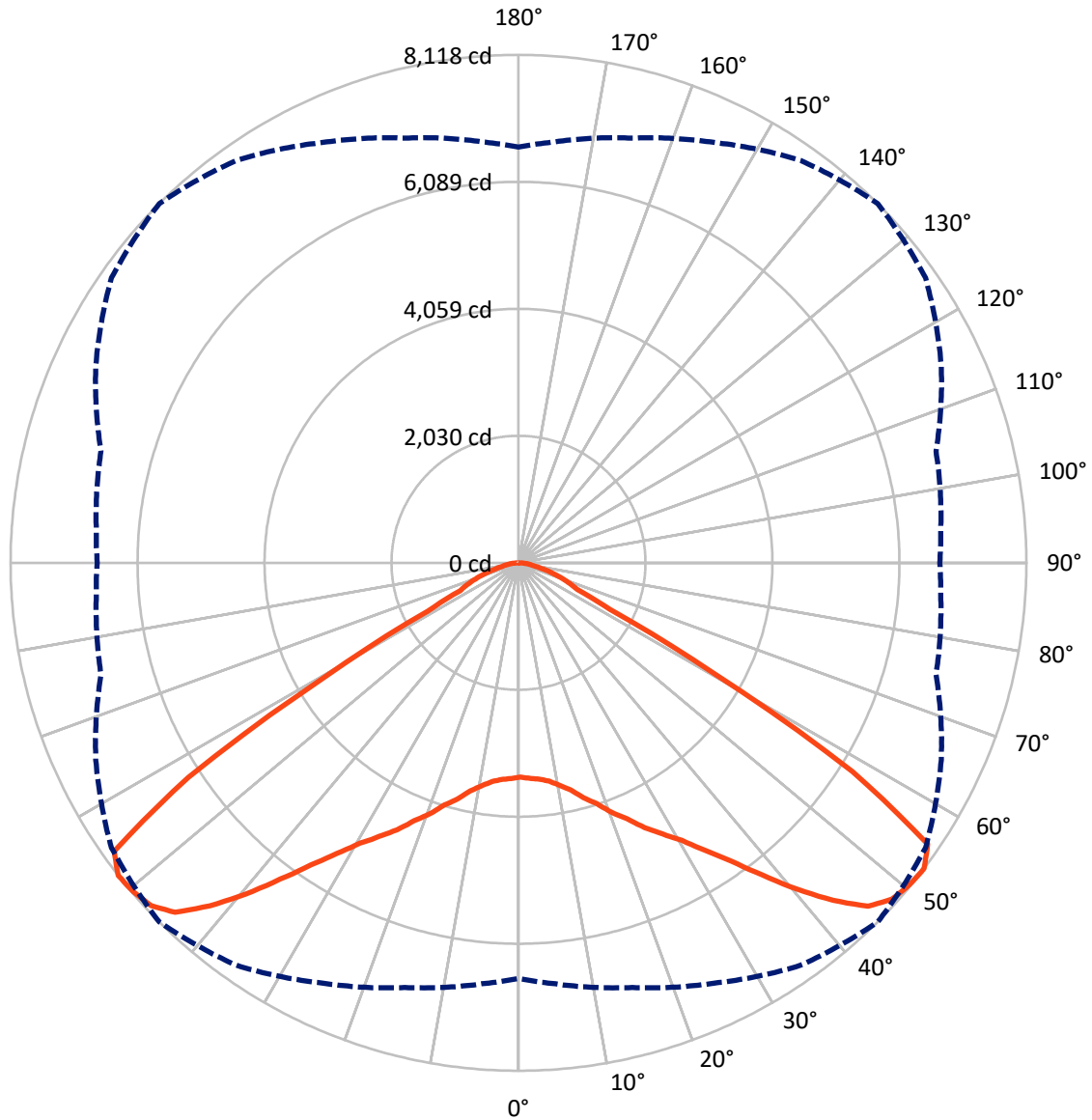
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

REPORT NUMBER: P650842
CATALOG NUMBER: GALN-SA4C-840-U-RW-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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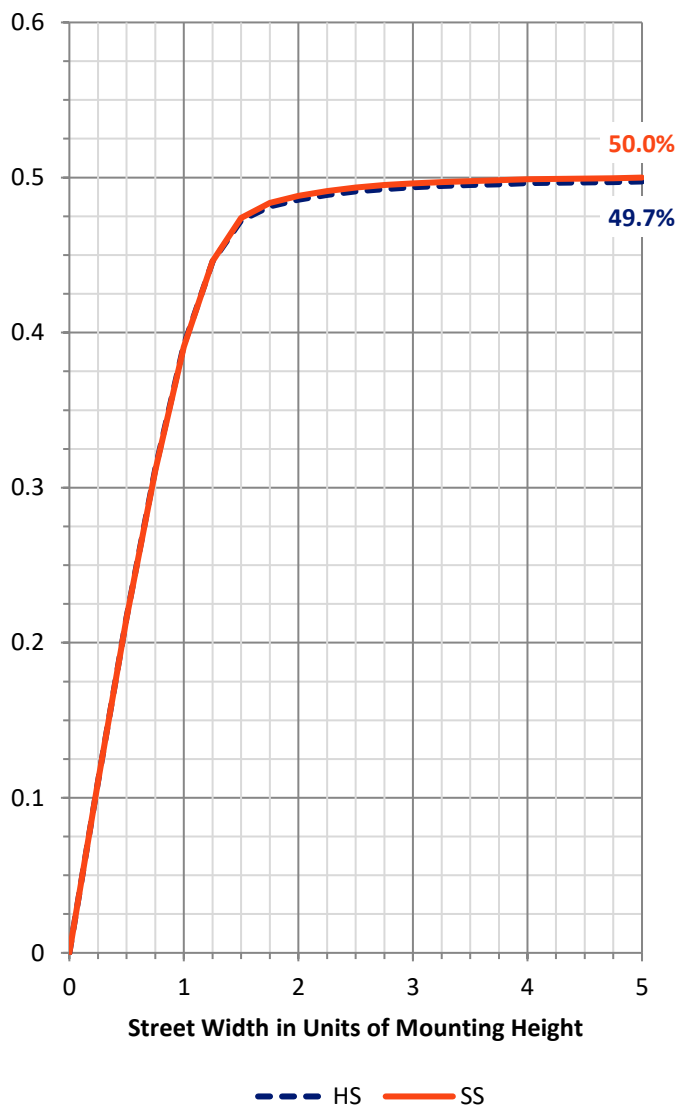
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10247.2	0.0	10247.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10247.2	0.0	10247.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20494.3	0.0	20494.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	1.6
10°-20°	1106.0	5.4
20°-30°	2105.7	10.3
30°-40°	3615.6	17.6
40°-50°	5557.2	27.1
50°-60°	5643.3	27.5
60°-70°	1572.7	7.7
70°-80°	463.9	2.3
80°-90°	93.4	0.5
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°	20494.3	100.0
0°-180°	20494.3	100.0

Coefficient of Utilization

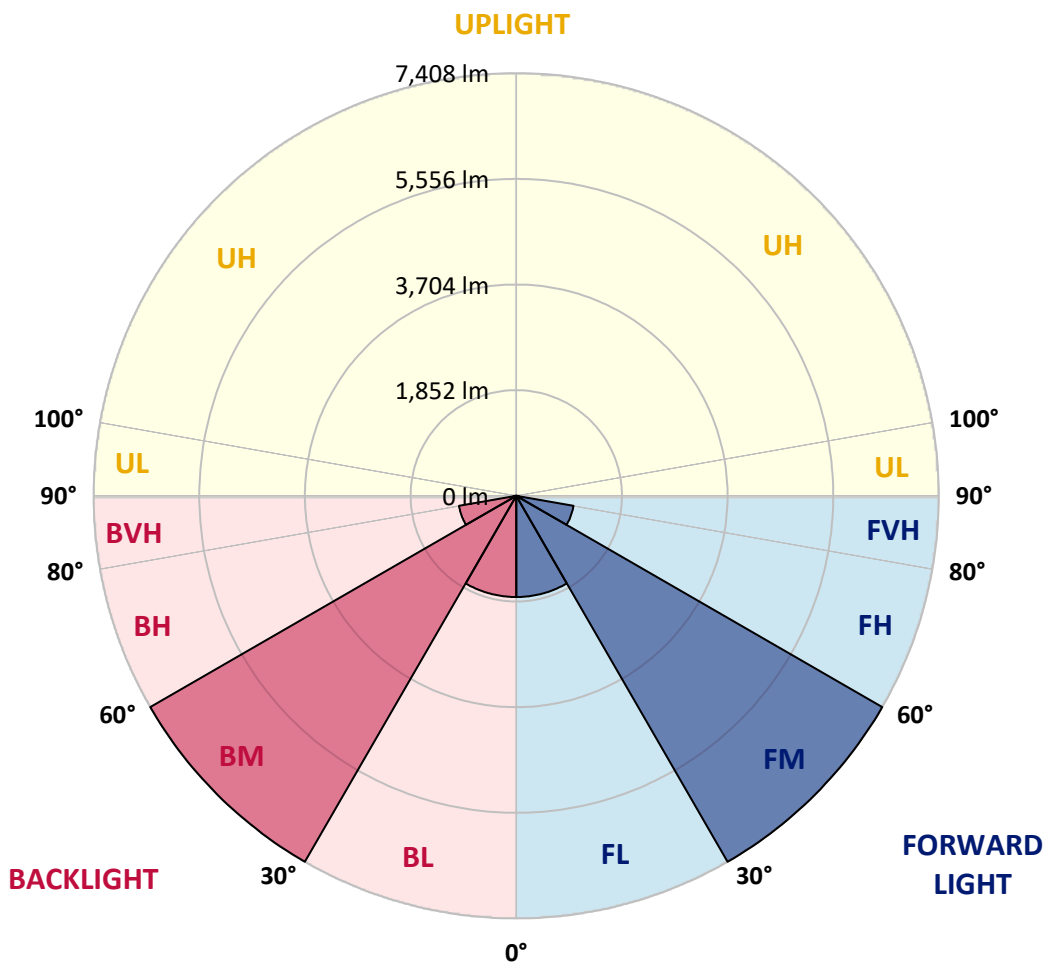


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.1	8.7			
FM (30°-60°)	7408.0	36.1			
FH (60°-80°)	1018.3	5.0			G1/1800
FVH (80°-90°)	46.7	0.2			G1/100
BL (0°-30°)	1774.1	8.7	B3/2500		
BM (30°-60°)	7408.0	36.1	B4/8500		
BH (60°-80°)	1018.3	5.0	B3/2500		G1/1800
BVH (80°-90°)	46.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
2.5°	3433.6	3397.9	3410.7	3418.2	3451.3	3448.8	3441.1	3451.3	3461.5	3464.1	3458.9
5°	3430.9	3405.5	3415.7	3423.4	3456.4	3474.3	3469.1	3512.4	3542.9	3535.2	3573.4
7.5°	3410.7	3425.9	3413.2	3451.3	3479.3	3522.5	3568.4	3609.0	3647.2	3690.4	3698.0
10°	3456.4	3456.4	3479.3	3509.8	3583.6	3616.6	3682.7	3741.3	3815.0	3865.9	3845.6
12.5°	3504.7	3512.4	3512.4	3591.2	3652.3	3726.1	3787.0	3865.9	3970.2	4031.2	4061.7
15°	3553.1	3558.2	3583.6	3690.4	3782.0	3899.0	3954.9	4026.1	4084.7	4199.1	4201.6
17.5°	3596.3	3624.3	3700.6	3820.2	3934.5	4046.5	4135.5	4209.3	4260.1	4305.9	4295.7
20°	3759.1	3779.5	3858.3	3977.8	4148.2	4257.6	4288.1	4300.8	4333.8	4425.4	4397.4
22.5°	3916.8	3924.4	3998.1	4181.3	4300.8	4445.8	4478.8	4471.2	4484.0	4506.8	4547.5
25°	4079.5	4092.2	4194.0	4349.1	4517.0	4689.9	4717.9	4659.4	4641.6	4667.0	4669.6
27.5°	4288.1	4290.6	4420.4	4555.1	4745.9	4908.7	4951.9	4906.1	4822.2	4842.6	4875.6
30°	4552.6	4534.8	4664.5	4857.8	5058.7	5150.3	5224.0	5201.2	5109.6	5091.8	5063.8
32.5°	4857.8	4862.9	4979.9	5191.0	5323.3	5475.8	5554.7	5516.5	5458.0	5427.5	5445.3
35°	5287.6	5310.5	5389.4	5564.9	5778.5	5854.8	5979.4	5898.0	5745.5	5783.6	5816.6
37.5°	5641.2	5707.3	5854.8	6063.4	6190.5	6330.4	6376.2	6266.8	6154.9	6109.1	6218.5
40°	6182.9	6162.5	6325.3	6533.9	6722.1	6862.0	6803.4	6694.1	6416.9	6419.4	6450.0
42.5°	6648.4	6658.5	6783.1	7032.4	7289.3	7375.7	7190.0	6923.0	6615.2	6582.2	6648.4
45°	7040.0	7080.7	7151.9	7485.1	7736.9	7831.0	7487.6	7172.2	6760.2	6622.9	6732.3
47.5°	7179.9	7246.1	7401.1	7706.3	7955.6	8031.9	7757.2	7304.5	6895.0	6671.2	6729.7
50°	7200.2	7177.3	7431.7	7711.5	7930.2	8095.5	7853.8	7401.1	6862.0	6745.0	6727.2
52.5°	6643.2	6755.2	7027.3	7411.3	7853.8	8118.4	7940.4	7454.5	6907.7	6775.5	6732.3
55°	5376.7	5244.4	5740.3	6386.4	7200.2	7935.3	7909.9	7482.5	6935.7	6826.4	6767.9
57.5°	3001.2	3039.3	3319.1	4021.1	5071.5	6292.3	7032.4	7187.5	6923.0	6859.4	6890.0
60°	1388.7	1401.4	1520.9	1849.0	2500.1	3568.4	4542.4	5531.8	5987.1	6078.6	6078.6
62.5°	1035.2	1030.1	1060.6	1119.0	1256.5	1640.5	2189.8	2975.7	3601.4	4038.8	4153.3
65°	935.9	933.4	948.6	969.0	979.2	1032.6	1154.7	1396.3	1599.8	1716.7	1696.4
67.5°	819.0	816.4	821.5	834.2	852.0	880.0	910.6	961.3	1032.6	1027.5	1014.8
70°	661.3	661.3	668.9	679.1	699.5	732.5	768.1	803.7	864.7	877.4	874.9
72.5°	488.3	480.7	495.9	516.3	536.6	577.3	615.5	648.6	691.8	704.5	699.5
75°	310.3	315.4	325.6	348.4	384.1	412.0	452.7	480.7	508.6	518.8	521.4
77.5°	172.9	178.0	195.9	223.8	259.4	290.0	325.6	348.4	366.3	368.8	371.3
80°	104.3	106.8	124.6	150.0	180.6	213.6	241.6	264.5	279.8	272.1	269.6
82.5°	63.6	66.1	81.4	104.3	129.7	155.2	185.7	206.0	221.3	211.1	200.9
85°	33.1	35.6	48.4	63.6	83.9	96.6	96.6	86.5	83.9	78.9	76.3
87.5°	10.2	10.2	12.7	15.2	12.7	15.2	17.8	20.4	20.4	22.9	20.4
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)