

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: P652372

Luminaire Tested: **GALN-SA5B-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21585.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

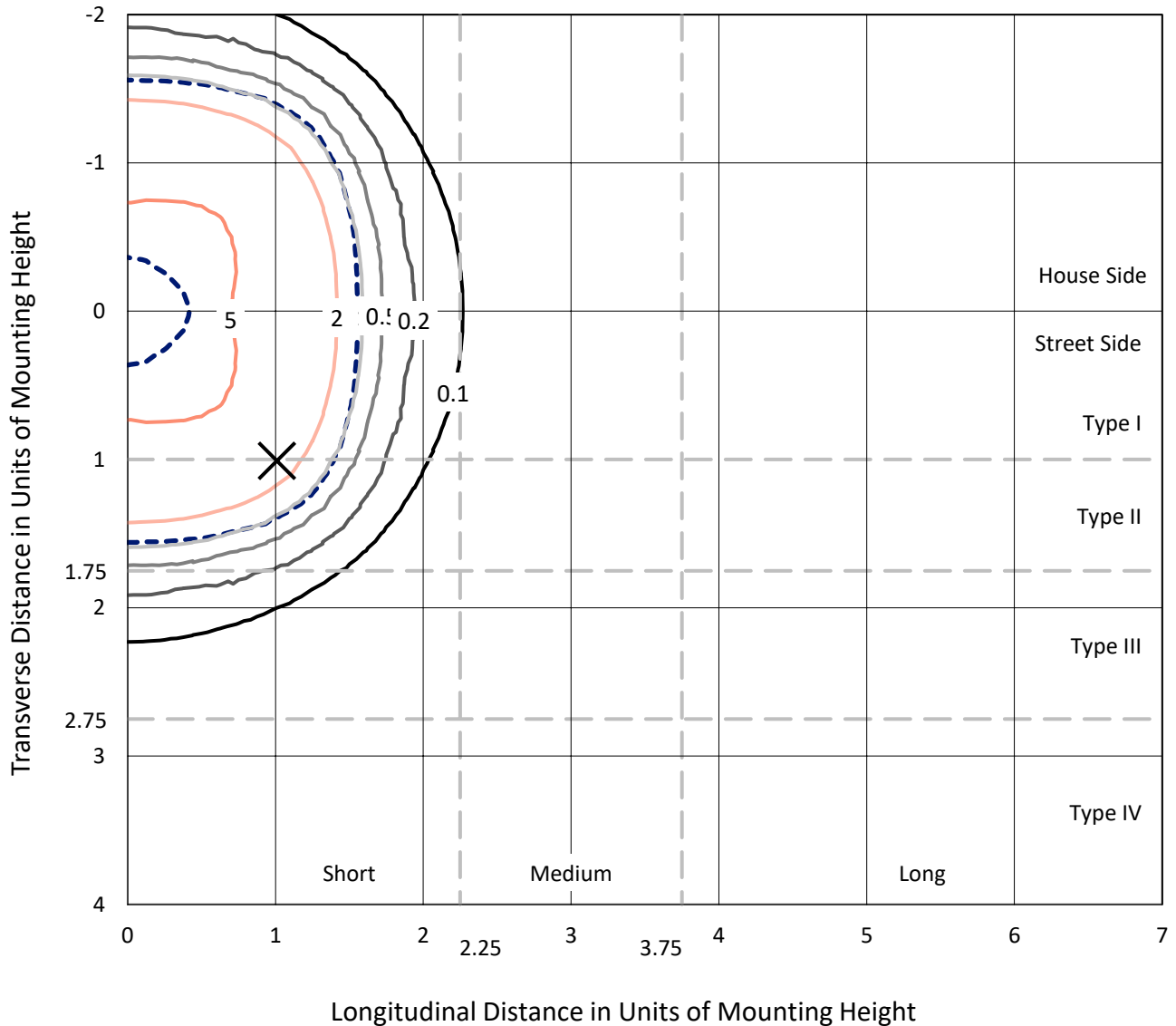
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

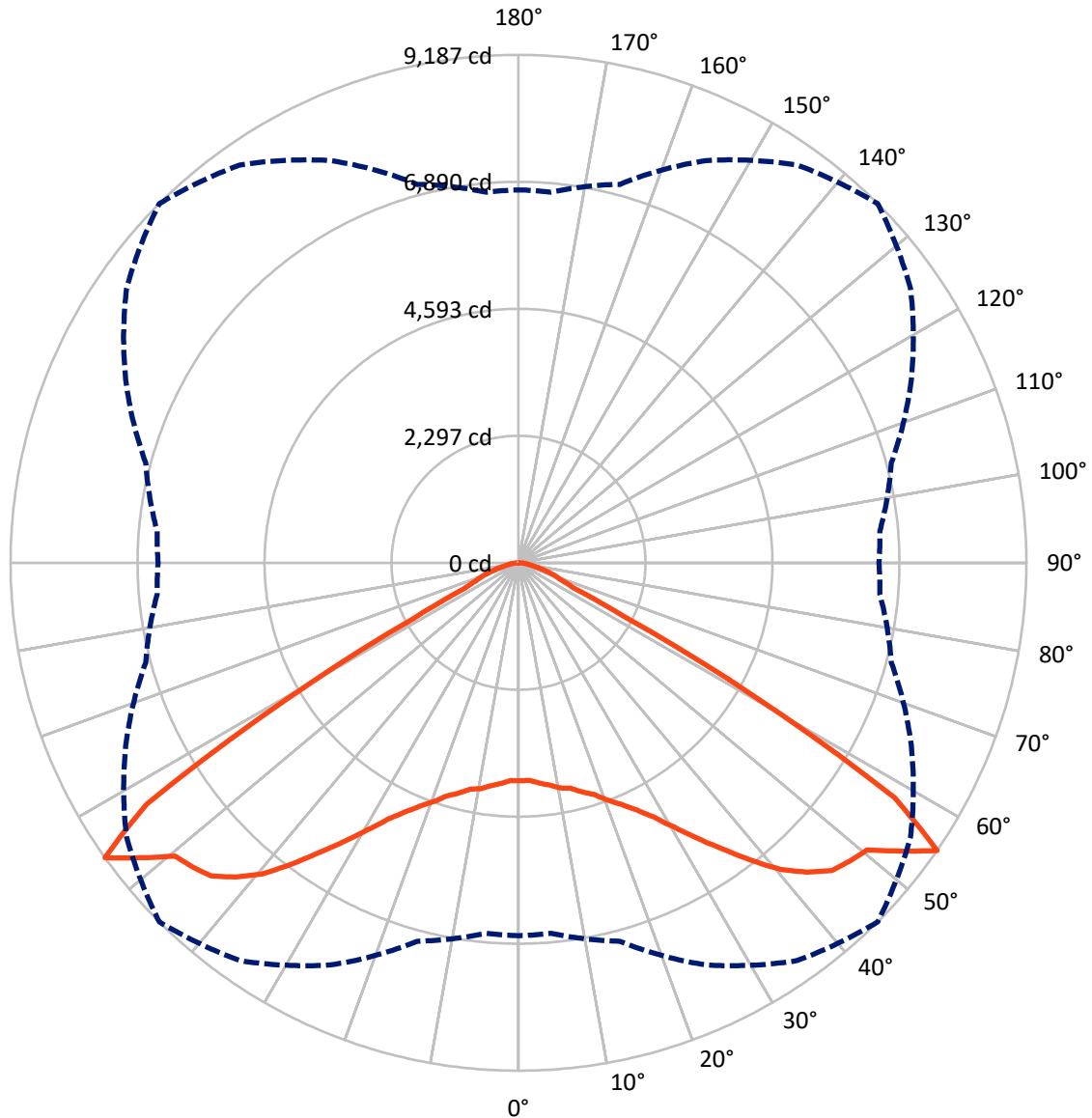
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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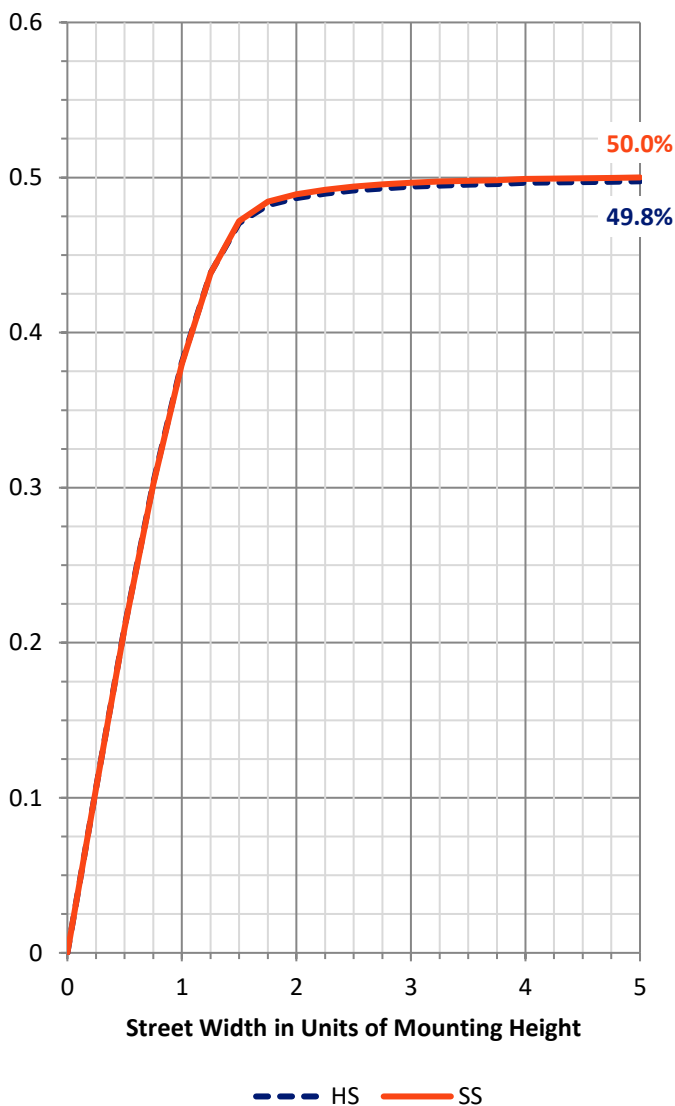
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10793.0	0.0	10793.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10793.0	0.0	10793.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21585.9	0.0	21585.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.0	1.8
10°-20°	1220.0	5.7
20°-30°	2274.8	10.5
30°-40°	3808.8	17.6
40°-50°	5926.8	27.5
50°-60°	6153.9	28.5
60°-70°	1305.0	6.0
70°-80°	429.8	2.0
80°-90°	81.8	0.4
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°	21585.9	100.0
0°-180°	21585.9	100.0

Coefficient of Utilization



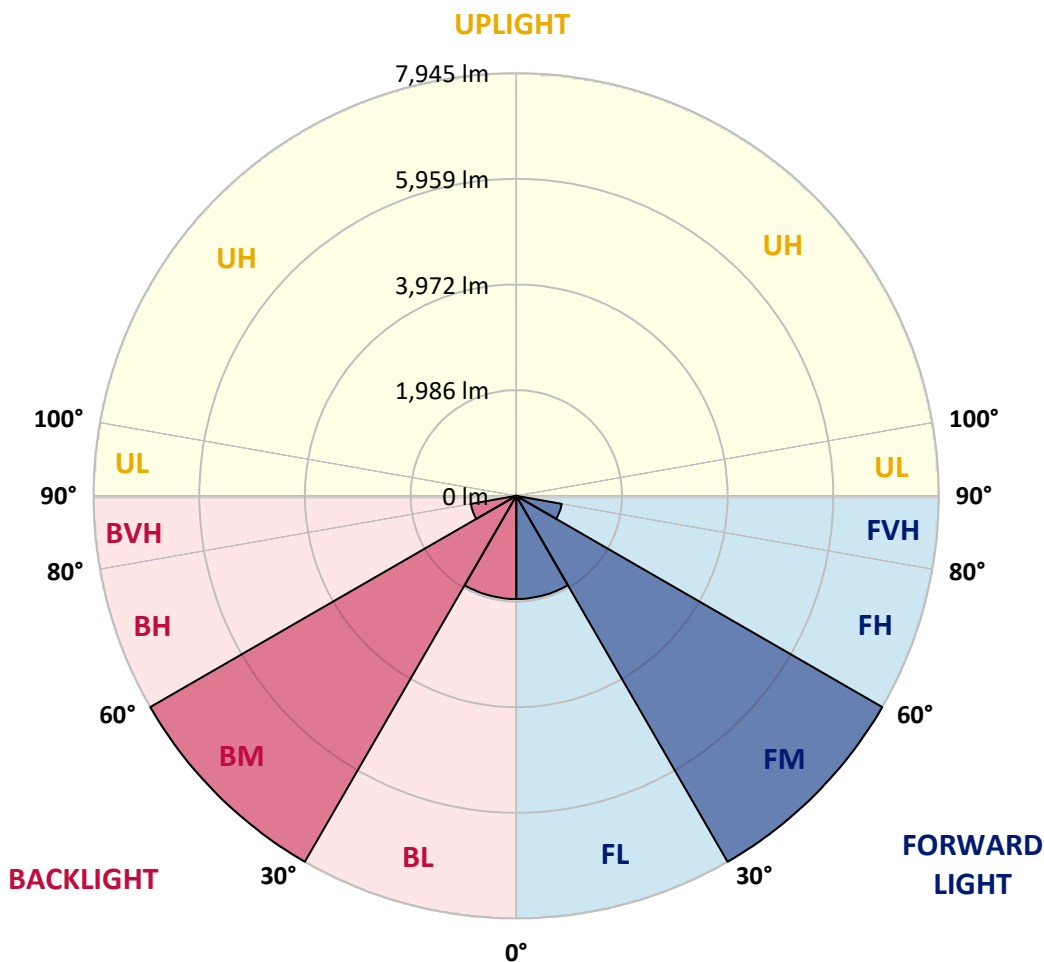
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.9	9.0			
FM (30°-60°)	7944.7	36.8			
FH (60°-80°)	867.4	4.0			G1/1800
FVH (80°-90°)	40.9	0.2			G1/100
BL (0°-30°)	1939.9	9.0	B3/2500		
BM (30°-60°)	7944.7	36.8	B4/8500		
BH (60°-80°)	867.4	4.0	B2/1000		G1/1800
BVH (80°-90°)	40.9	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°	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3	3941.3
2.5°	3988.2	3969.9	3938.7	3962.1	3980.4	3941.3	3956.9	3964.7	3959.5	3938.7	3946.5
5°	4045.6	4035.2	4009.1	4027.4	4003.8	4003.8	3988.2	3967.3	3998.6	3993.4	4006.4
7.5°	4045.6	4032.6	4084.7	4050.8	4061.3	4061.3	4035.2	4014.3	4030.0	4006.4	3993.4
10°	4126.5	4144.7	4121.2	4129.1	4123.8	4142.1	4103.0	4090.0	4076.9	4069.1	4053.5
12.5°	4223.0	4210.0	4217.8	4212.6	4230.8	4183.9	4160.3	4131.7	4155.1	4121.2	4144.7
15°	4301.2	4293.4	4301.2	4322.1	4303.8	4301.2	4259.5	4230.8	4194.3	4202.1	4165.6
17.5°	4408.2	4400.4	4403.0	4421.2	4418.6	4405.6	4374.3	4319.5	4306.4	4285.6	4262.1
20°	4567.3	4554.3	4549.1	4556.9	4569.9	4580.3	4517.7	4496.8	4452.5	4418.6	4379.5
22.5°	4703.0	4697.7	4718.6	4684.6	4713.4	4744.7	4684.6	4674.2	4564.7	4546.4	4504.6
25°	4890.8	4882.9	4869.9	4919.4	4953.3	4950.7	4893.4	4835.9	4752.5	4731.6	4731.6
27.5°	5089.0	5044.7	5112.4	5125.5	5185.4	5203.8	5154.2	5070.7	4992.4	4948.1	4958.5
30°	5336.7	5295.0	5310.7	5404.6	5482.8	5550.7	5425.5	5302.8	5193.3	5115.0	5102.0
32.5°	5584.6	5542.9	5589.8	5681.0	5837.5	5939.3	5816.7	5602.8	5475.0	5360.2	5383.7
35°	5785.4	5816.7	5892.4	6030.6	6192.3	6356.6	6161.0	5996.7	5814.1	5686.3	5704.5
37.5°	6108.9	6205.3	6265.4	6424.5	6654.0	6823.5	6620.1	6406.2	6210.5	6043.6	5986.2
40°	6531.4	6596.6	6664.4	6852.2	7123.5	7293.1	7100.1	6820.9	6627.9	6455.8	6447.9
42.5°	6995.7	7058.3	7128.7	7358.2	7520.0	7647.8	7470.4	7321.7	7107.9	6972.2	6964.4
45°	7535.6	7491.3	7569.5	7720.8	7856.5	7940.0	7825.2	7752.1	7598.3	7473.0	7460.0
47.5°	7895.6	7856.5	7997.3	8133.0	8153.8	8062.5	8086.0	8153.8	7992.1	7786.1	7851.2
50°	8104.3	8104.3	8198.2	8323.4	8284.3	8166.9	8352.1	8357.3	8195.5	8013.0	8013.0
52.5°	7741.7	7822.6	8088.6	8498.1	8628.6	8662.5	8620.8	8443.4	8020.8	7647.8	7629.6
55°	6745.3	6727.0	7087.0	8026.0	8785.1	9186.7	8654.6	7838.2	6980.0	6560.1	6518.3
57.5°	4387.3	4408.2	4945.5	5902.8	7272.2	8020.8	7123.5	5975.8	4945.5	4366.5	4421.2
60°	1974.6	2045.0	2371.0	3085.7	4262.1	4872.5	4272.5	3242.2	2488.4	2159.8	2188.5
62.5°	1134.7	1147.7	1160.7	1377.2	1815.5	2146.7	1885.9	1455.5	1283.4	1225.9	1225.9
65°	957.3	949.5	952.1	970.3	1017.3	1085.1	1056.4	1017.3	1022.5	1017.3	1009.5
67.5°	813.8	824.3	816.4	829.5	832.1	842.5	860.8	876.4	879.0	884.2	879.0
70°	667.8	670.4	675.6	686.0	688.6	696.4	722.5	735.5	743.4	743.4	753.8
72.5°	511.2	508.6	513.9	524.3	537.3	539.9	563.4	581.6	592.1	579.0	581.6
75°	336.5	339.1	346.9	354.7	373.0	391.2	399.1	417.3	419.9	425.1	412.1
77.5°	200.8	206.0	213.9	229.5	245.2	260.9	279.1	292.2	297.4	292.2	276.5
80°	130.4	130.4	140.9	153.9	172.2	185.2	195.6	206.0	213.9	206.0	200.8
82.5°	80.8	80.8	93.9	109.6	122.6	130.4	146.1	159.1	166.9	161.7	153.9
85°	41.7	44.3	54.7	67.8	78.2	83.4	80.8	73.0	65.2	62.6	57.4
87.5°	13.0	13.0	15.6	15.6	13.0	13.0	15.6	13.0	15.6	15.6	15.6
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)