

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: P533007

Luminaire Tested: **GALN-SA8B-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25083 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

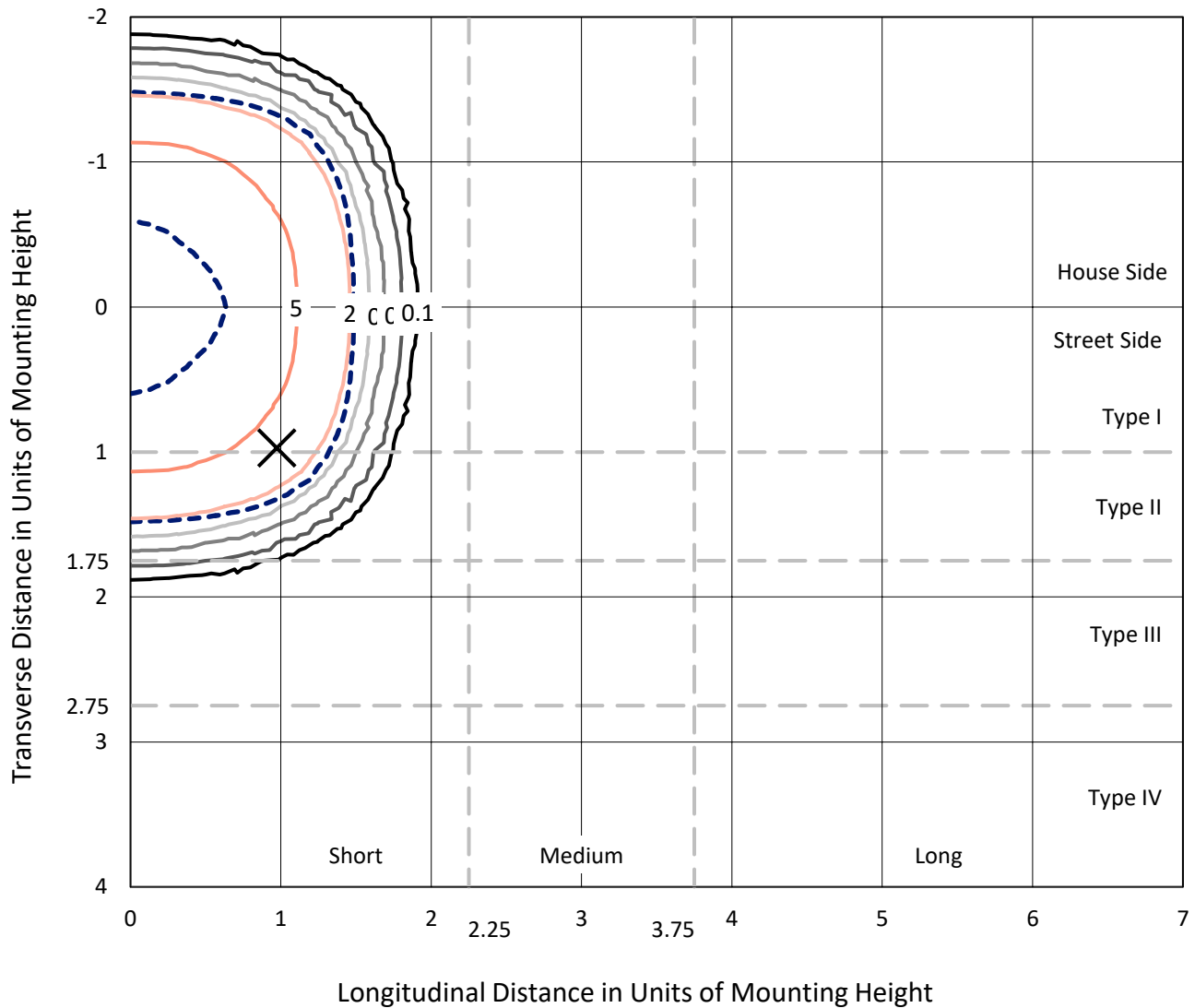
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

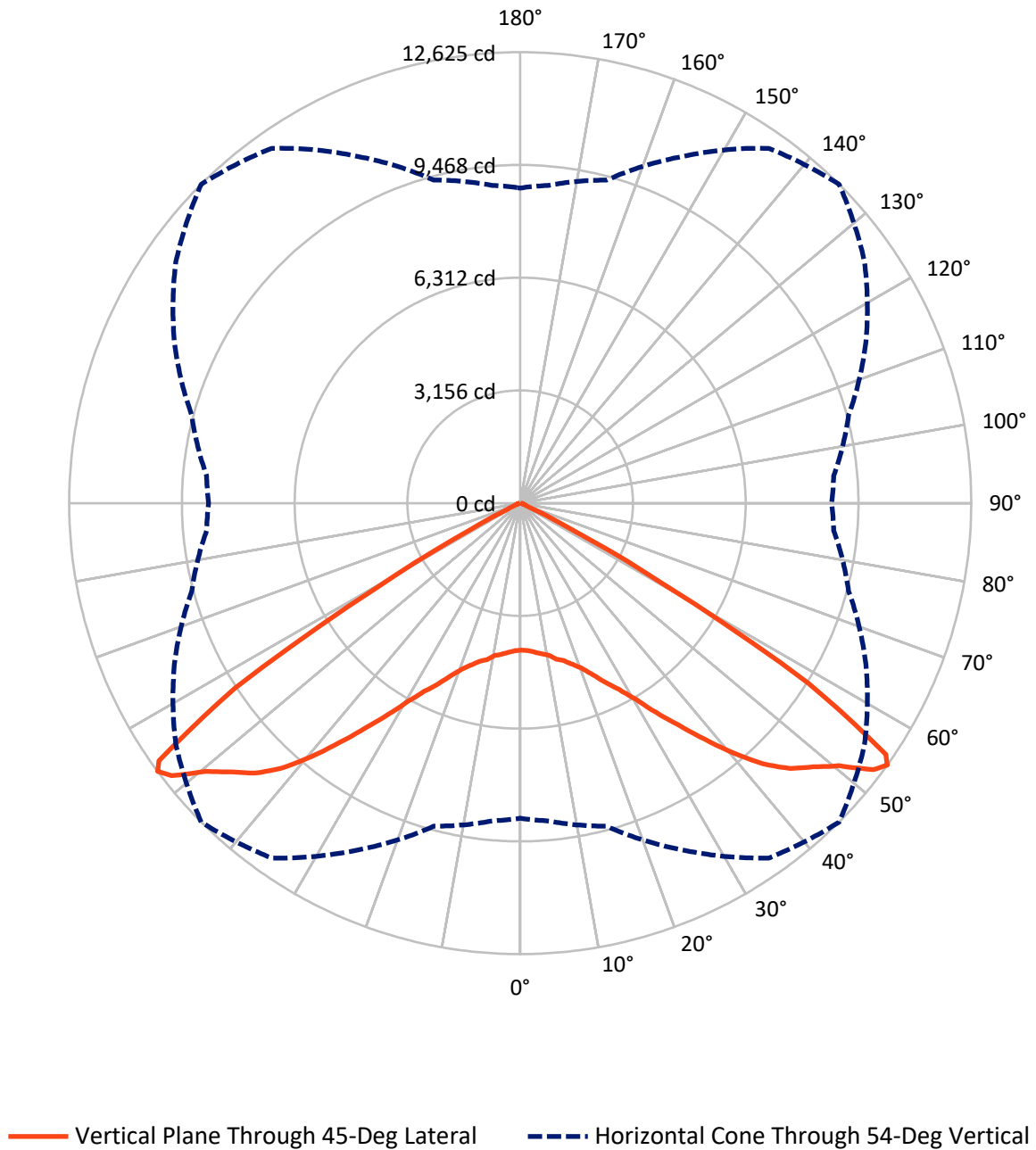
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12541.5	0.0	12541.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12541.5	0.0	12541.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25083.0	0.0	25083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.5	1.6
10°-20°	1303.6	5.2
20°-30°	2555.0	10.2
30°-40°	4594.4	18.3
40°-50°	7864.7	31.4
50°-60°	7609.9	30.3
60°-70°	651.4	2.6
70°-80°	77.2	0.3
80°-90°	24.2	0.1
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°	25083.0	100.0
0°-180°	25083.0	100.0

Coefficient of Utilization



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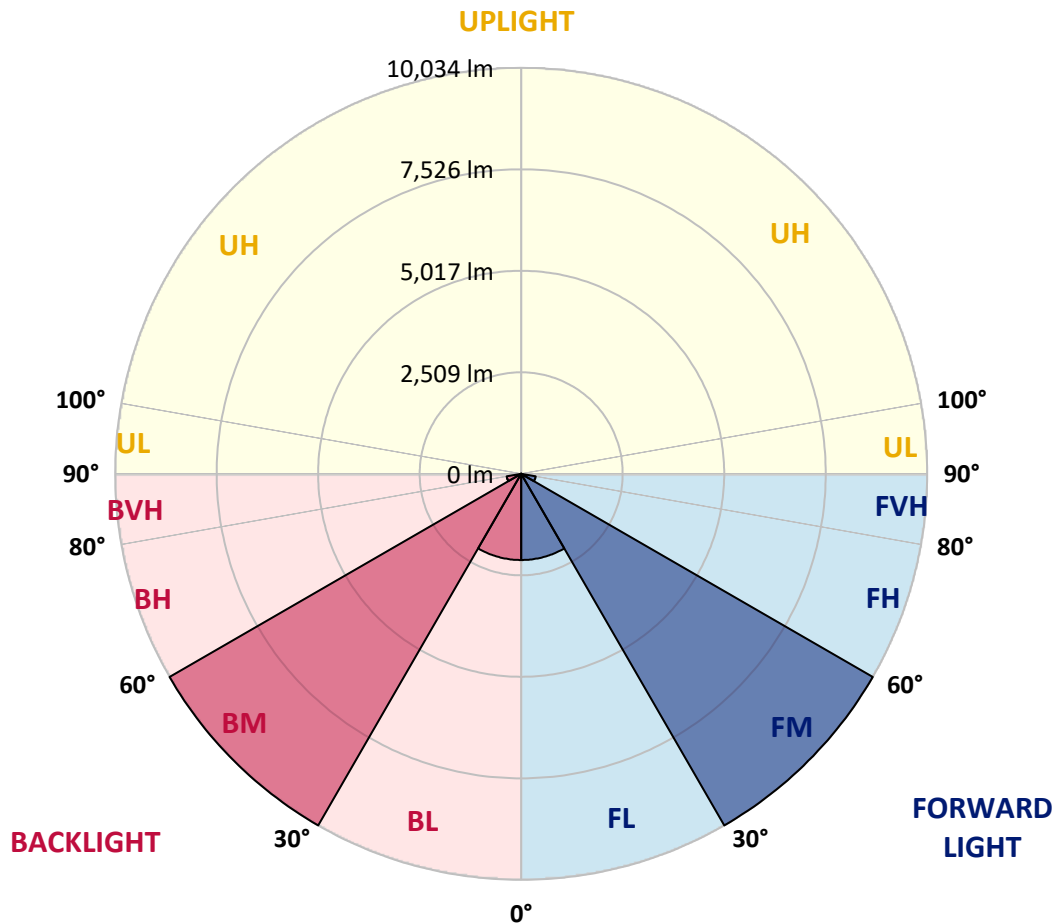
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2130.6	8.5			
FM	(30°-60°)	10034.5	40.0			
FH	(60°-80°)	364.3	1.5			G0/660
FVH	(80°-90°)	12.1	0.0			G1/100
BL	(0°-30°)	2130.6	8.5	B3/2500		
BM	(30°-60°)	10034.5	40.0	B5		
BH	(60°-80°)	364.3	1.5	B1/500		G0/660
BVH	(80°-90°)	12.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4112.8	4112.8	4112.8	4112.8	4112.8	4112.8	4112.8	4112.8	4112.8	4112.8	4112.8
2.5°	4132.7	4156.5	4140.6	4152.6	4152.6	4132.7	4144.6	4096.9	4128.7	4104.9	4108.9
5°	4196.3	4192.3	4192.3	4196.3	4180.4	4188.3	4172.4	4156.5	4144.6	4128.7	4176.4
7.5°	4275.8	4275.8	4247.9	4255.9	4247.9	4259.9	4228.1	4196.3	4184.4	4172.4	4164.5
10°	4351.3	4343.3	4331.4	4367.2	4339.3	4323.4	4307.5	4287.7	4244.0	4228.1	4212.2
12.5°	4462.5	4458.5	4442.7	4478.4	4462.5	4478.4	4418.8	4367.2	4359.2	4307.5	4335.4
15°	4593.7	4629.4	4601.6	4601.6	4593.7	4573.8	4549.9	4526.1	4454.6	4434.7	4438.7
17.5°	4764.5	4752.6	4756.6	4756.6	4796.3	4744.7	4697.0	4637.4	4601.6	4589.7	4549.9
20°	4927.4	4943.3	4939.4	4967.2	4991.0	4935.4	4883.7	4875.8	4776.4	4792.3	4736.7
22.5°	5213.6	5201.6	5221.5	5241.4	5225.5	5217.5	5169.8	5110.2	5022.8	4983.1	4975.1
25°	5515.6	5495.7	5459.9	5507.6	5531.5	5567.2	5475.8	5444.0	5308.9	5249.3	5253.3
27.5°	5773.9	5801.7	5841.4	5861.3	5920.9	5909.0	5845.4	5742.1	5638.8	5571.2	5527.5
30°	6127.5	6143.4	6211.0	6238.8	6342.1	6369.9	6270.6	6151.4	5968.6	5881.1	5829.5
32.5°	6453.4	6564.6	6560.7	6699.7	6866.6	6981.9	6803.1	6620.3	6437.5	6334.2	6242.8
35°	6981.9	6962.0	7077.2	7224.3	7494.5	7625.6	7430.9	7220.3	6942.1	6775.2	6703.7
37.5°	7474.6	7482.6	7637.5	7872.0	8181.9	8384.6	8213.7	7868.0	7581.9	7367.3	7268.0
40°	8189.9	8205.8	8364.7	8631.0	8980.7	9199.2	9000.5	8650.9	8269.4	8102.5	8102.5
42.5°	9028.4	9095.9	9199.2	9429.7	9743.6	9986.0	9807.2	9533.0	9147.6	8933.0	8964.8
45°	9890.7	9922.5	9990.0	10331.7	10478.8	10598.0	10431.1	10303.9	10045.6	9783.4	9739.7
47.5°	10697.3	10709.3	10907.9	11015.2	11130.5	11031.1	11138.4	10971.5	10681.4	10427.1	10375.5
50°	11055.0	11035.1	11317.2	11643.1	11730.5	11555.7	11464.3	11353.0	10911.9	10605.9	10470.8
52.5°	10013.8	10129.1	10653.6	11559.6	12243.1	12390.2	11857.7	11345.1	10522.5	9926.4	9835.0
54°	8821.7	8929.0	9362.2	10705.3	12127.9	12624.6	11766.3	10677.5	9517.1	8809.8	8718.4
55°	7641.5	7522.3	8309.1	9680.1	11587.5	12418.0	11404.7	9815.2	8487.9	7840.2	7713.0
57.5°	4136.7	4156.5	4820.2	6115.6	8142.2	9521.1	8408.5	6640.1	5014.9	4287.7	4224.1
60°	1311.3	1343.1	1633.2	2471.7	3890.3	4645.3	3981.7	2666.4	1843.8	1478.2	1418.6
62.5°	409.3	425.2	464.9	691.4	1065.0	1521.9	1192.1	715.3	532.5	488.8	496.7
65°	250.3	250.3	254.3	270.2	317.9	369.6	357.6	313.9	302.0	294.1	290.1
67.5°	162.9	158.9	166.9	178.8	186.8	190.7	202.7	214.6	210.6	202.7	202.7
70°	99.3	95.4	103.3	119.2	123.2	131.1	143.1	158.9	155.0	147.0	151.0
72.5°	55.6	55.6	59.6	71.5	83.4	91.4	103.3	115.2	119.2	115.2	115.2
75°	19.9	23.8	31.8	43.7	51.7	63.6	75.5	87.4	99.3	91.4	87.4
77.5°	7.9	7.9	15.9	27.8	39.7	51.7	71.5	83.4	91.4	83.4	75.5
80°	4.0	4.0	11.9	23.8	35.8	47.7	59.6	71.5	75.5	67.6	59.6
82.5°	4.0	4.0	11.9	23.8	35.8	43.7	63.6	71.5	79.5	71.5	59.6
85°	0.0	4.0	11.9	23.8	31.8	35.8	35.8	23.8	19.9	11.9	11.9
87.5°	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)