

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: P652536

Luminaire Tested: **GALN-SA8B-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652536
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-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 26546.1 lumens
Efficiency: N/A
Efficacy: 81.7 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

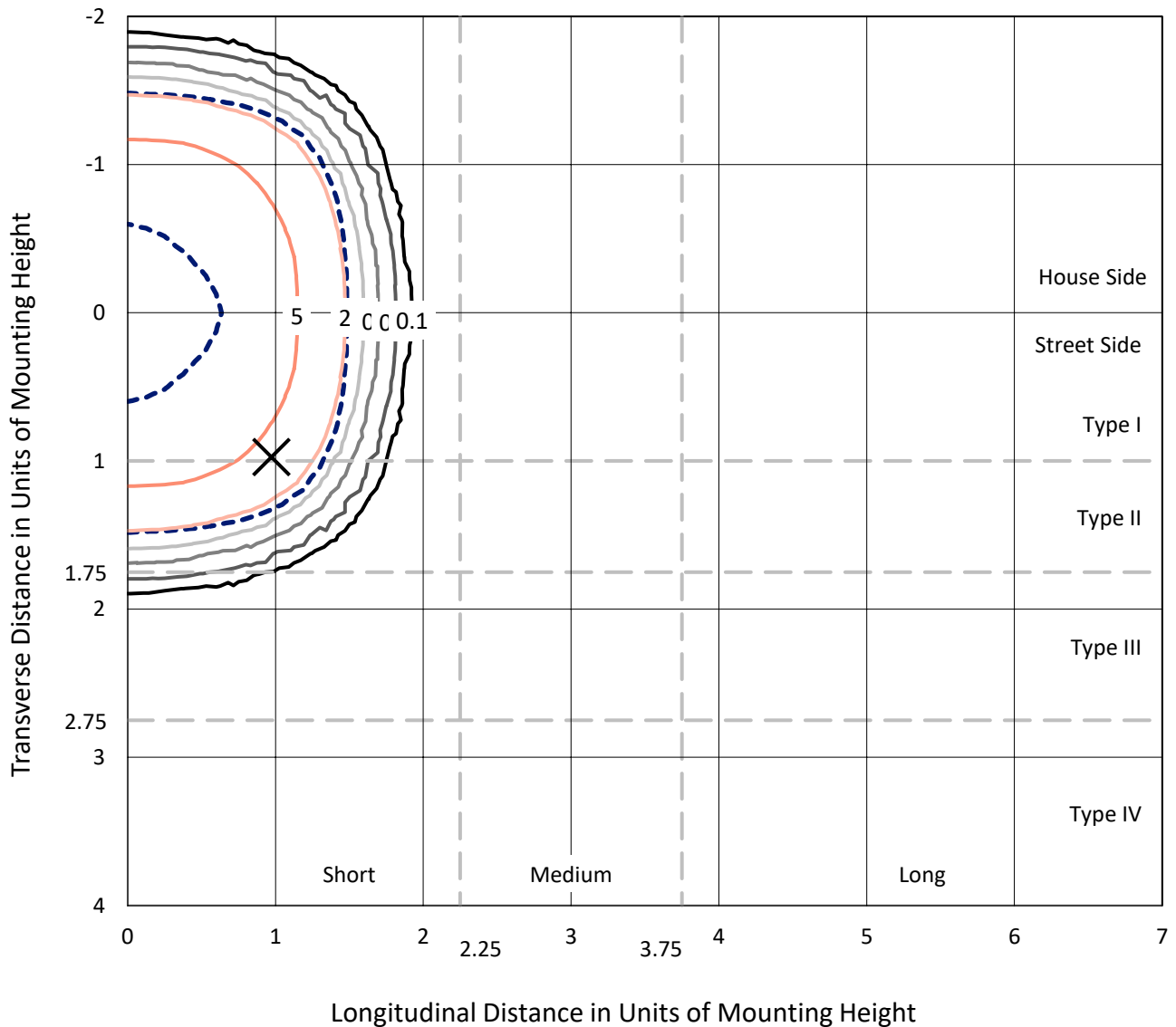
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652536
 CATALOG NUMBER: GALN-SA8B-840-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

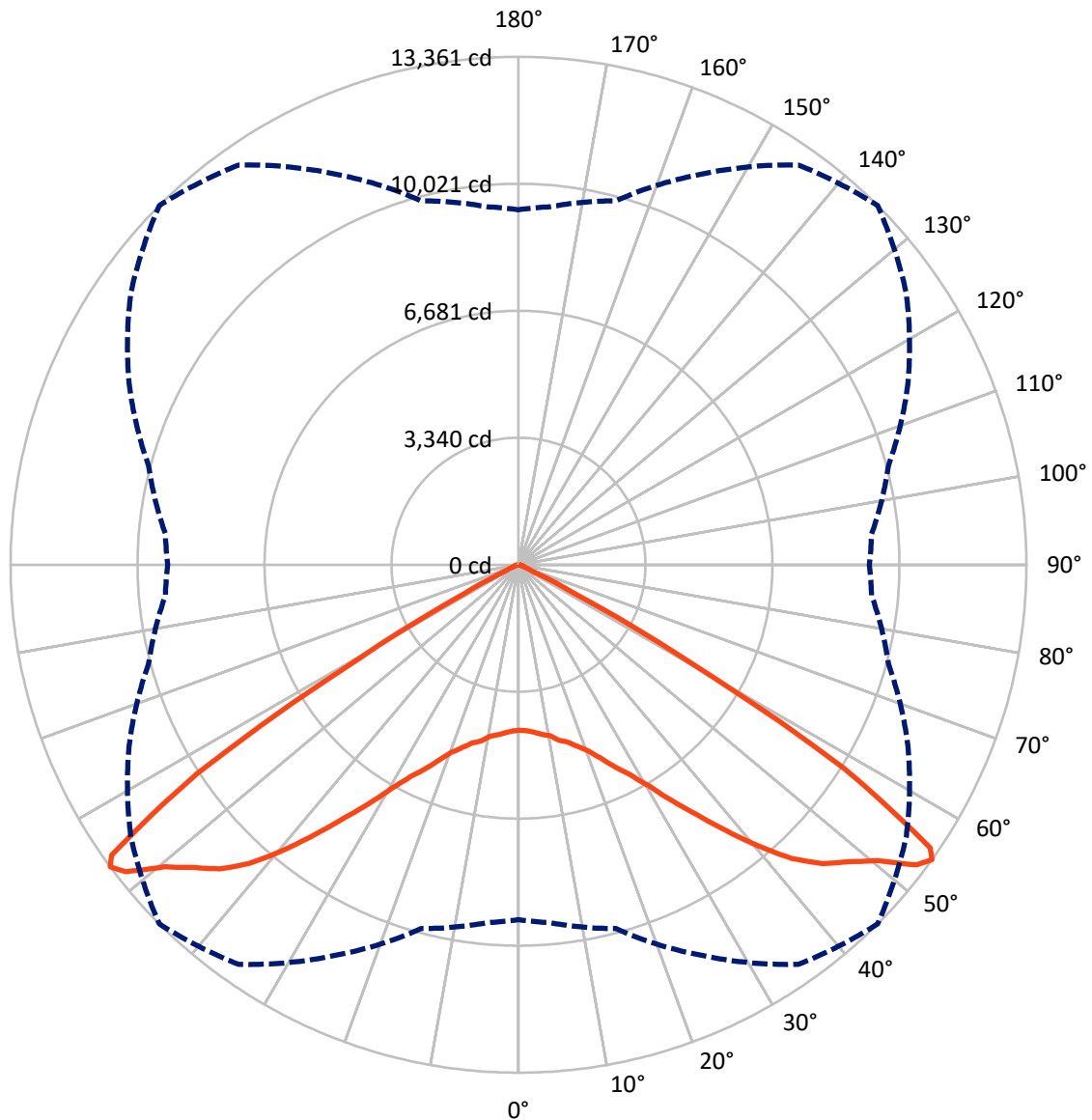
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

REPORT NUMBER: P652536
CATALOG NUMBER: GALN-SA8B-840-U-5NQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P652536
 CATALOG NUMBER: GALN-SA8B-840-U-5NQ-GRSBK

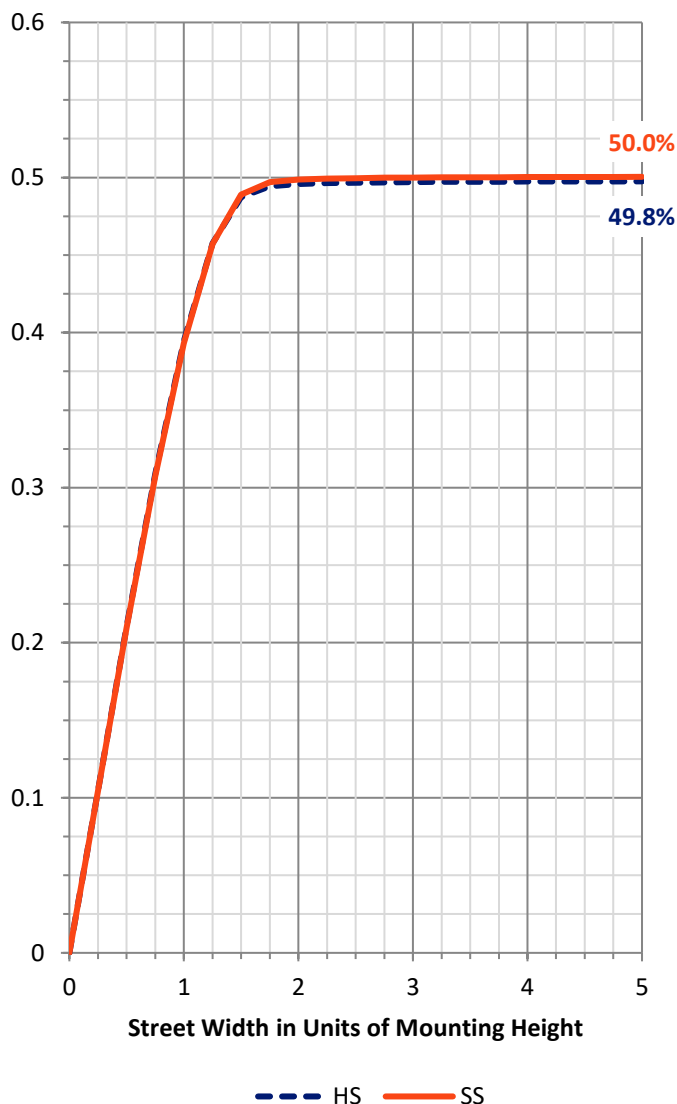
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13273.1	0.0	13273.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13273.1	0.0	13273.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	26546.1	0.0	26546.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.6
10°-20°	1379.6	5.2
20°-30°	2704.0	10.2
30°-40°	4862.4	18.3
40°-50°	8323.5	31.4
50°-60°	8053.8	30.3
60°-70°	689.4	2.6
70°-80°	81.7	0.3
80°-90°	25.6	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°	26546.1	100.0
0°-180°	26546.1	100.0

Coefficient of Utilization



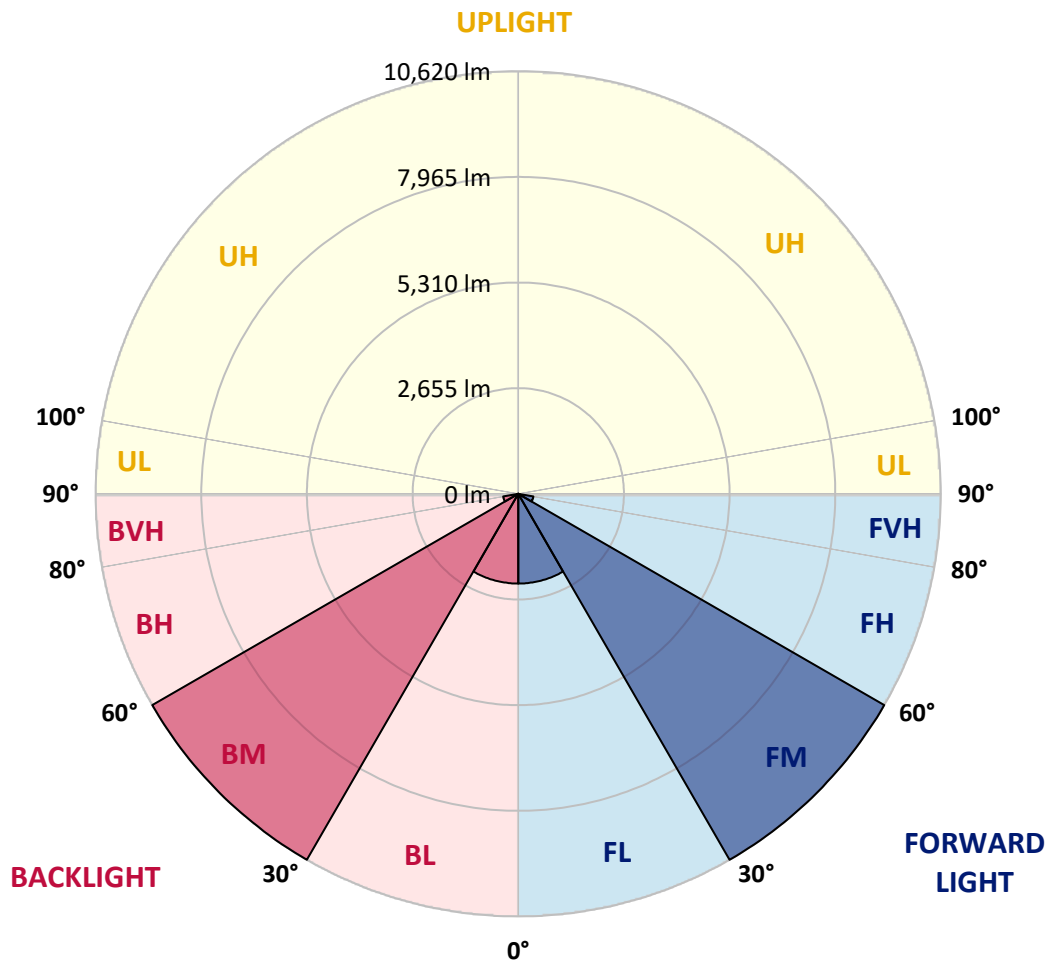
REPORT NUMBER: P652536
 CATALOG NUMBER: GALN-SA8B-840-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.9	8.5			
FM (30°-60°)	10619.8	40.0			
FH (60°-80°)	385.6	1.5			G0/660
FVH (80°-90°)	12.8	0.0			G1/100
BL (0°-30°)	2254.9	8.5	B3/2500		
BM (30°-60°)	10619.8	40.0	B5		
BH (60°-80°)	385.6	1.5	B1/500		G0/660
BVH (80°-90°)	12.8	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





REPORT NUMBER: P652536

CATALOG NUMBER: GALN-SA8B-840-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4352.8	4352.8	4352.8	4352.8	4352.8	4352.8	4352.8	4352.8	4352.8	4352.8	4352.8
2.5°	4373.8	4399.0	4382.2	4394.8	4394.8	4373.8	4386.4	4335.9	4369.6	4344.4	4348.6
5°	4441.1	4436.9	4436.9	4441.1	4424.2	4432.7	4415.8	4399.0	4386.4	4369.6	4420.0
7.5°	4525.2	4525.2	4495.7	4504.1	4495.7	4508.3	4474.7	4441.1	4428.5	4415.8	4407.4
10°	4605.1	4596.7	4584.0	4621.9	4592.4	4575.6	4558.8	4537.8	4491.5	4474.7	4457.9
12.5°	4722.8	4718.6	4701.8	4739.6	4722.8	4739.6	4676.5	4621.9	4613.5	4558.8	4588.2
15°	4861.7	4899.5	4870.1	4870.1	4861.7	4840.6	4815.3	4790.1	4714.4	4693.4	4697.6
17.5°	5042.5	5029.9	5034.1	5034.1	5076.1	5021.4	4971.0	4907.9	4870.1	4857.4	4815.3
20°	5214.9	5231.7	5227.5	5256.9	5282.2	5223.3	5168.6	5160.2	5055.1	5071.9	5013.0
22.5°	5517.7	5505.1	5526.1	5547.2	5530.3	5521.9	5471.5	5408.3	5315.8	5273.7	5265.3
25°	5837.3	5816.3	5778.4	5828.9	5854.1	5892.0	5795.2	5761.6	5618.6	5555.6	5559.8
27.5°	6110.6	6140.1	6182.2	6203.2	6266.3	6253.7	6186.4	6077.0	5967.7	5896.2	5849.9
30°	6485.0	6501.8	6573.3	6602.7	6712.0	6741.5	6636.3	6510.2	6316.8	6224.2	6169.6
32.5°	6829.8	6947.6	6943.4	7090.6	7267.2	7389.1	7199.9	7006.5	6813.0	6703.6	6606.9
35°	7389.1	7368.1	7490.1	7645.7	7931.6	8070.5	7864.4	7641.5	7347.1	7170.5	7094.8
37.5°	7910.6	7919.0	8083.1	8331.2	8659.2	8873.7	8692.9	8327.0	8024.1	7797.1	7692.0
40°	8667.6	8684.4	8852.7	9134.4	9504.6	9735.8	9525.6	9155.5	8751.8	8575.1	8575.1
42.5°	9555.0	9626.5	9735.8	9979.8	10312.0	10568.5	10379.3	10089.1	9681.2	9454.1	9487.7
45°	10467.6	10501.2	10572.7	10934.4	11090.0	11216.2	11039.6	10905.0	10631.7	10354.1	10307.8
47.5°	11321.4	11334.0	11544.2	11657.8	11779.7	11674.6	11788.1	11611.5	11304.6	11035.3	10980.7
50°	11699.8	11678.8	11977.4	12322.2	12414.8	12229.7	12133.0	12015.3	11548.4	11224.6	11081.6
52.5°	10597.9	10720.0	11275.1	12233.9	12957.3	13112.9	12549.4	12006.9	11136.3	10505.4	10408.7
54°	9336.4	9449.9	9908.2	11329.8	12835.3	13361.1	12452.6	11300.3	10072.3	9323.7	9226.9
55°	8087.3	7961.1	8793.8	10244.7	12263.4	13142.3	12069.9	10387.7	8983.1	8297.6	8163.0
57.5°	4378.0	4399.0	5101.3	6472.3	8617.1	10076.5	8899.0	7027.5	5307.4	4537.8	4470.5
60°	1387.8	1421.5	1728.5	2615.8	4117.2	4916.3	4214.0	2821.9	1951.4	1564.4	1501.4
62.5°	433.2	450.0	492.1	731.8	1127.1	1610.8	1261.7	757.0	563.6	517.3	525.7
65°	264.9	264.9	269.1	285.9	336.5	391.1	378.5	332.3	319.6	311.2	307.0
67.5°	172.4	168.2	176.6	189.2	197.6	201.8	214.5	227.1	222.9	214.5	214.5
70°	105.1	100.9	109.3	126.2	130.4	138.8	151.4	168.2	164.0	155.6	159.8
72.5°	58.9	58.9	63.1	75.7	88.3	96.7	109.3	121.9	126.2	121.9	121.9
75°	21.0	25.2	33.6	46.3	54.7	67.3	79.9	92.5	105.1	96.7	92.5
77.5°	8.4	8.4	16.8	29.4	42.0	54.7	75.7	88.3	96.7	88.3	79.9
80°	4.2	4.2	12.6	25.2	37.8	50.5	63.1	75.7	79.9	71.5	63.1
82.5°	4.2	4.2	12.6	25.2	37.8	46.3	67.3	75.7	84.1	75.7	63.1
85°	0.0	4.2	12.6	25.2	33.6	37.8	37.8	25.2	21.0	12.6	12.6
87.5°	0.0	0.0	4.2	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)