

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: P650886

Luminaire Tested: **GALN-SA5C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650886
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-SA5C-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 20340.4 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

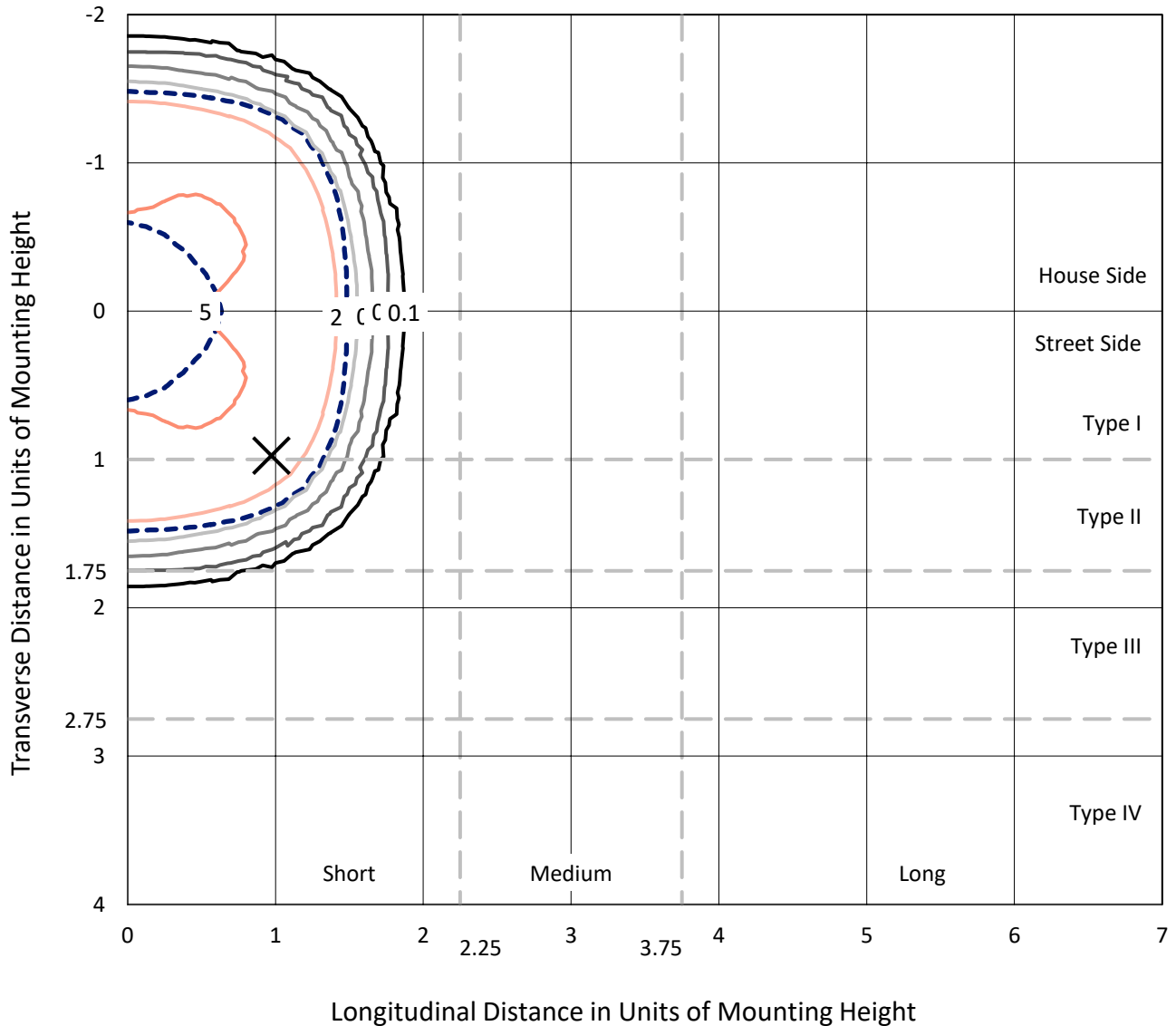
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650886
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

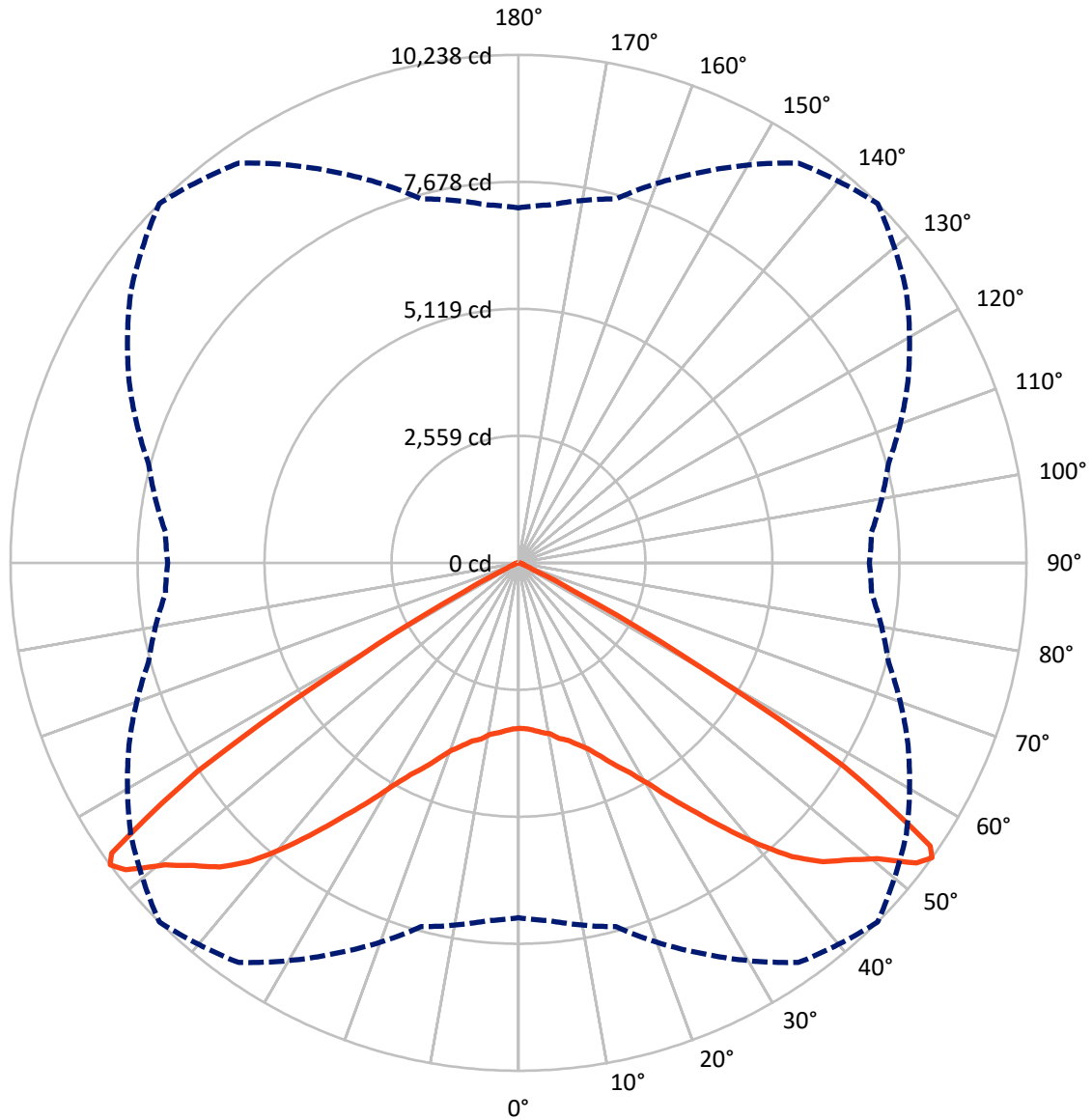
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P650886
CATALOG NUMBER: GALN-SA5C-840-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650886
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ-GRSBK

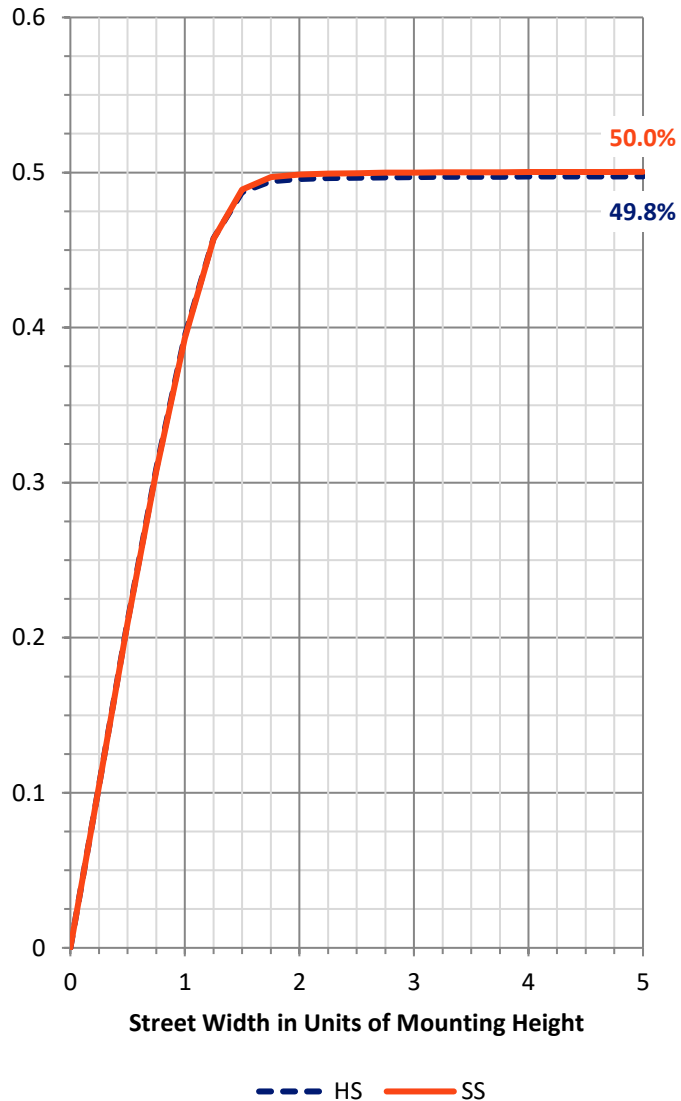
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10170.2	0.0	10170.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10170.2	0.0	10170.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20340.4	0.0	20340.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.6
10°-20°	1057.1	5.2
20°-30°	2071.9	10.2
30°-40°	3725.7	18.3
40°-50°	6377.7	31.4
50°-60°	6171.0	30.3
60°-70°	528.3	2.6
70°-80°	62.6	0.3
80°-90°	19.6	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°	20340.4	100.0
0°-180°	20340.4	100.0

Coefficient of Utilization

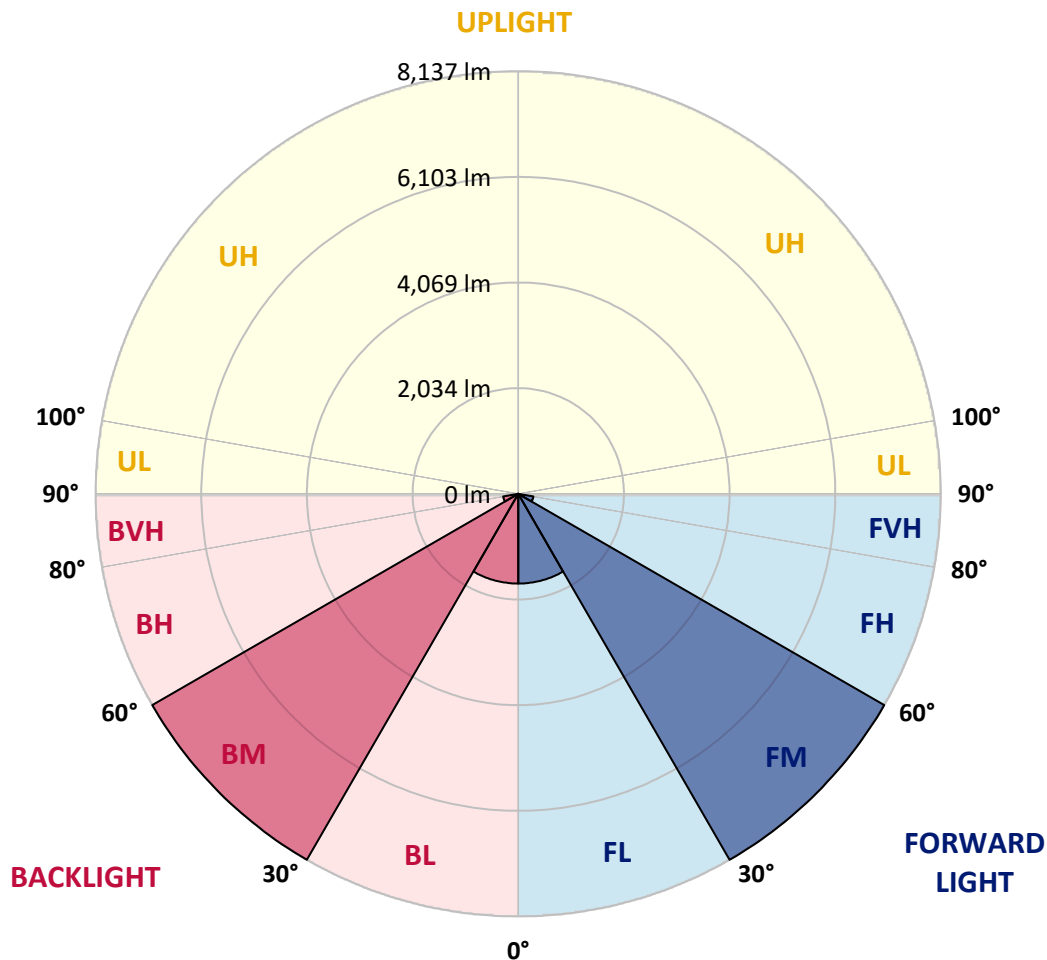


REPORT NUMBER: P650886
 CATALOG NUMBER: GALN-SA5C-840-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.7	8.5			
FM (30°-60°)	8137.2	40.0			
FH (60°-80°)	295.4	1.5			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	1727.7	8.5	B3/2500		
BM (30°-60°)	8137.2	40.0	B4/8500		
BH (60°-80°)	295.4	1.5	B1/500		G0/660
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





REPORT NUMBER: P650886

CATALOG NUMBER: GALN-SA5C-840-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2
2.5°	3351.3	3370.6	3357.8	3367.4	3367.4	3351.3	3361.0	3322.3	3348.1	3328.8	3332.0
5°	3402.9	3399.7	3399.7	3402.9	3390.0	3396.5	3383.5	3370.6	3361.0	3348.1	3386.8
7.5°	3467.3	3467.3	3444.7	3451.2	3444.7	3454.4	3428.7	3402.9	3393.2	3383.5	3377.1
10°	3528.5	3522.1	3512.4	3541.5	3518.9	3506.0	3493.1	3476.9	3441.5	3428.7	3415.7
12.5°	3618.7	3615.5	3602.7	3631.7	3618.7	3631.7	3583.3	3541.5	3535.0	3493.1	3515.6
15°	3725.1	3754.1	3731.5	3731.5	3725.1	3709.0	3689.6	3670.3	3612.3	3596.2	3599.4
17.5°	3863.6	3854.0	3857.2	3857.2	3889.5	3847.6	3808.9	3760.5	3731.5	3721.8	3689.6
20°	3995.8	4008.7	4005.4	4028.1	4047.3	4002.2	3960.4	3953.9	3873.3	3886.3	3841.1
22.5°	4227.8	4218.1	4234.3	4250.3	4237.5	4231.0	4192.4	4144.0	4073.1	4040.9	4034.4
25°	4472.7	4456.6	4427.6	4466.3	4485.6	4514.6	4440.5	4414.7	4305.2	4256.8	4260.0
27.5°	4682.2	4704.7	4736.9	4753.1	4801.4	4791.8	4740.1	4656.4	4572.6	4517.9	4482.4
30°	4969.0	4981.8	5036.7	5059.2	5143.0	5165.5	5084.9	4988.3	4840.0	4769.1	4727.3
32.5°	5233.2	5323.4	5320.2	5433.0	5568.3	5661.8	5516.8	5368.5	5220.3	5136.5	5062.4
35°	5661.8	5645.6	5739.2	5858.3	6077.5	6183.8	6025.9	5855.1	5629.6	5494.3	5436.2
37.5°	6061.3	6067.8	6193.5	6383.6	6635.0	6799.3	6660.7	6380.4	6148.4	5974.4	5893.8
40°	6641.4	6654.2	6783.2	6999.1	7282.6	7459.9	7298.8	7015.2	6705.8	6570.5	6570.5
42.5°	7321.3	7376.1	7459.9	7646.8	7901.4	8097.9	7952.9	7730.6	7418.0	7244.0	7269.8
45°	8020.6	8046.4	8101.2	8378.3	8497.5	8594.2	8458.9	8355.8	8146.3	7933.6	7898.2
47.5°	8674.7	8684.4	8845.6	8932.5	9025.9	8945.4	9032.4	8897.1	8661.9	8455.6	8413.7
50°	8964.7	8948.7	9177.4	9441.7	9512.6	9370.8	9296.7	9206.4	8848.7	8600.7	8491.1
52.5°	8120.4	8214.0	8639.3	9374.0	9928.3	10047.5	9615.7	9200.0	8533.0	8049.5	7975.5
54°	7153.7	7240.8	7592.0	8681.1	9834.8	10237.6	9541.6	8658.6	7717.7	7144.1	7070.0
55°	6196.7	6100.0	6738.1	7849.8	9396.6	10070.0	9248.3	7959.4	6883.1	6357.8	6254.7
57.5°	3354.5	3370.6	3908.8	4959.3	6602.7	7720.9	6818.7	5384.7	4066.7	3476.9	3425.4
60°	1063.4	1089.2	1324.4	2004.4	3154.8	3767.0	3228.9	2162.2	1495.2	1198.8	1150.4
62.5°	331.9	344.8	377.0	560.7	863.6	1234.2	966.7	580.0	431.8	396.4	402.8
65°	203.0	203.0	206.2	219.2	257.8	299.6	290.0	254.6	244.9	238.4	235.2
67.5°	132.1	128.9	135.3	145.0	151.5	154.7	164.3	174.0	170.8	164.3	164.3
70°	80.6	77.4	83.8	96.6	99.9	106.3	116.0	128.9	125.6	119.3	122.4
72.5°	45.1	45.1	48.4	58.0	67.7	74.1	83.8	93.4	96.6	93.4	93.4
75°	16.1	19.3	25.8	35.4	41.9	51.6	61.2	70.9	80.6	74.1	70.9
77.5°	6.5	6.5	12.9	22.5	32.2	41.9	58.0	67.7	74.1	67.7	61.2
80°	3.2	3.2	9.7	19.3	29.0	38.7	48.4	58.0	61.2	54.7	48.4
82.5°	3.2	3.2	9.7	19.3	29.0	35.4	51.6	58.0	64.4	58.0	48.4
85°	0.0	3.2	9.7	19.3	25.8	29.0	29.0	19.3	16.1	9.7	9.7
87.5°	0.0	0.0	3.2	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)