

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: P533371

Luminaire Tested: **GALN-SA8D-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533371
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-SA8D-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA 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: 42914 lumens
Efficiency: N/A
Efficacy: 87.0 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

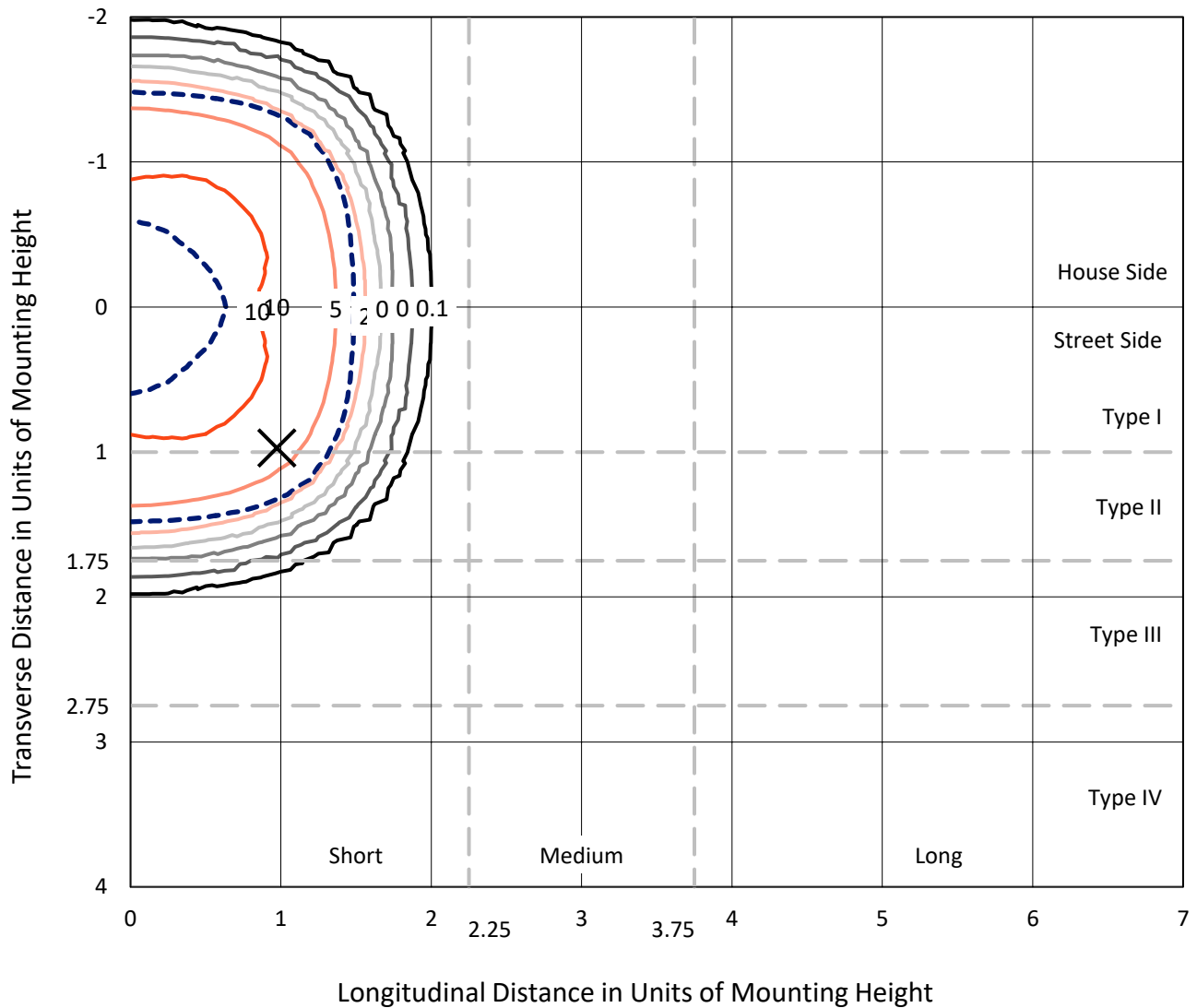
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533371
 CATALOG NUMBER: GALN-SA8D-740-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

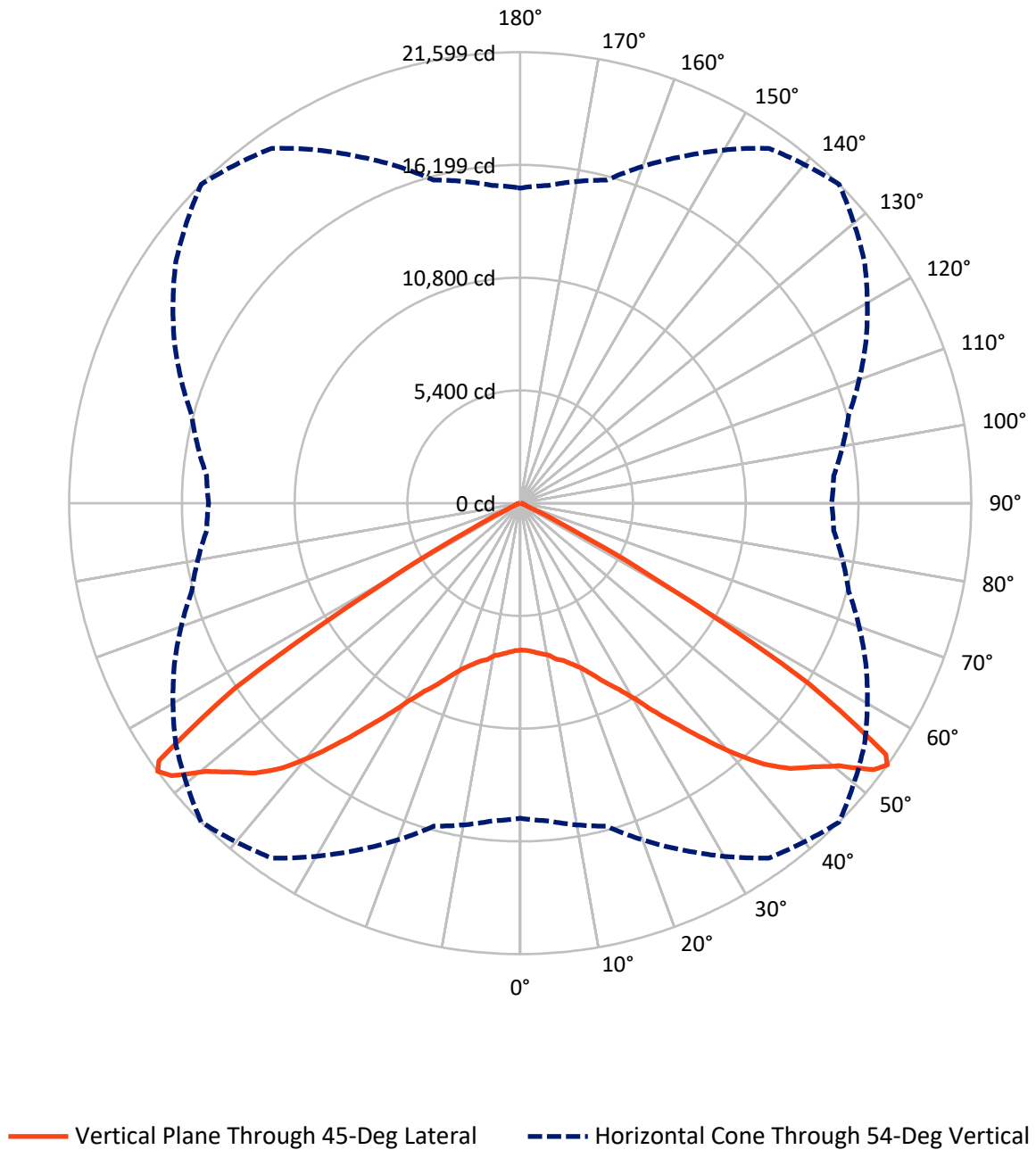
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type V - Short - N/A

REPORT NUMBER: P533371
CATALOG NUMBER: GALN-SA8D-740-U-5NQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533371
 CATALOG NUMBER: GALN-SA8D-740-U-5NQ-GRSBK

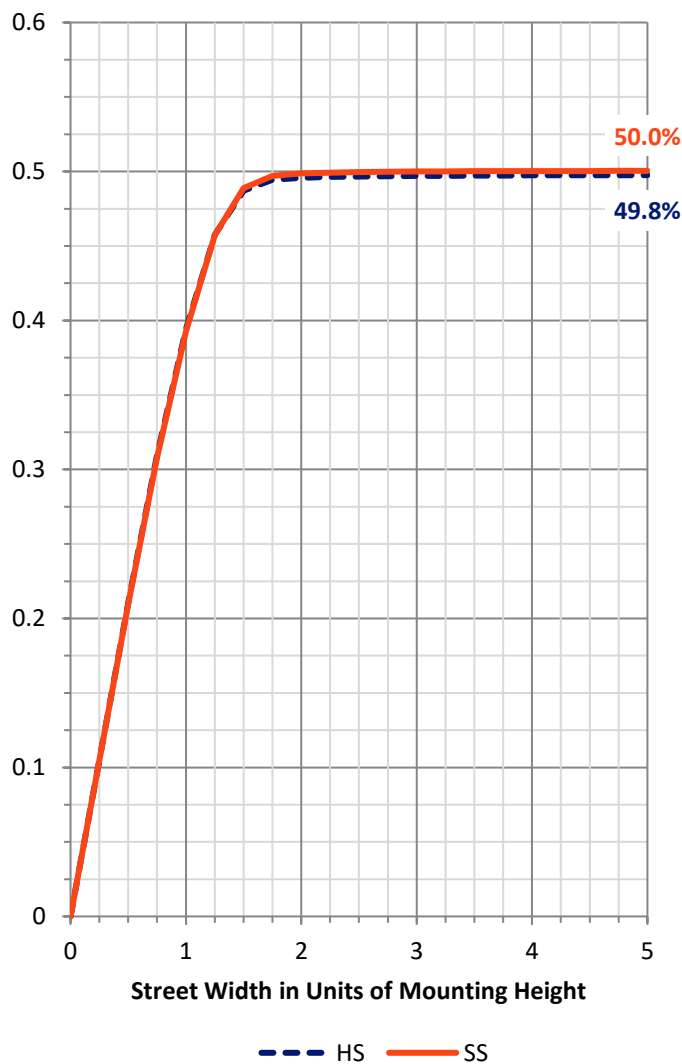
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21457.0	0.0	21457.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21457.0	0.0	21457.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42914.0	0.0	42914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.7	1.6
10°-20°	2230.3	5.2
20°-30°	4371.3	10.2
30°-40°	7860.5	18.3
40°-50°	13455.6	31.4
50°-60°	13019.6	30.3
60°-70°	1114.5	2.6
70°-80°	132.1	0.3
80°-90°	41.4	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°	42914.0	100.0
0°-180°	42914.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533371

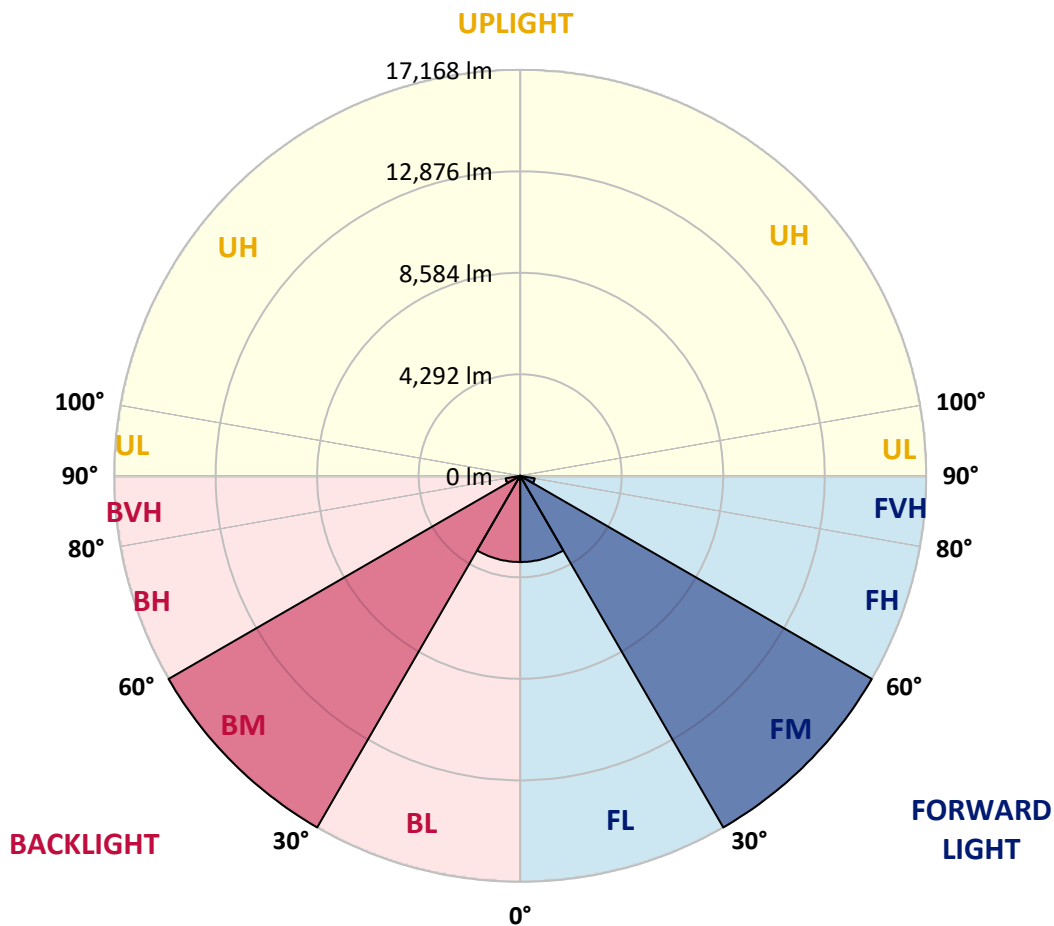
CATALOG NUMBER: GALN-SA8D-740-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3645.1	8.5			
FM (30°-60°)	17167.8	40.0			
FH (60°-80°)	623.3	1.5			G0/660
FVH (80°-90°)	20.7	0.0			G1/100
BL (0°-30°)	3645.1	8.5	B4/5000		
BM (30°-60°)	17167.8	40.0	B5		
BH (60°-80°)	623.3	1.5	B2/1000		G0/660
BVH (80°-90°)	20.7	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: P533371

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7036.6	7036.6	7036.6	7036.6	7036.6	7036.6	7036.6	7036.6	7036.6	7036.6	7036.6
2.5°	7070.6	7111.3	7084.1	7104.5	7104.5	7070.6	7090.9	7009.4	7063.8	7023.0	7029.8
5°	7179.3	7172.5	7172.5	7179.3	7152.1	7165.7	7138.5	7111.3	7090.9	7063.8	7145.3
7.5°	7315.3	7315.3	7267.7	7281.3	7267.7	7288.1	7233.7	7179.3	7158.9	7138.5	7124.9
10°	7444.5	7430.9	7410.5	7471.7	7424.1	7396.9	7369.7	7335.7	7260.9	7233.7	7206.5
12.5°	7634.8	7628.0	7600.8	7662.0	7634.8	7662.0	7560.1	7471.7	7458.1	7369.7	7417.3
15°	7859.2	7920.4	7872.8	7872.8	7859.2	7825.2	7784.4	7743.6	7621.2	7587.2	7594.0
17.5°	8151.5	8131.1	8137.9	8137.9	8205.9	8117.5	8036.0	7934.0	7872.8	7852.4	7784.4
20°	8430.3	8457.5	8450.7	8498.3	8539.1	8443.9	8355.5	8341.9	8171.9	8199.1	8103.9
22.5°	8919.8	8899.4	8933.4	8967.4	8940.2	8926.6	8845.0	8743.0	8593.4	8525.5	8511.9
25°	9436.5	9402.5	9341.3	9422.9	9463.7	9524.8	9368.5	9314.1	9082.9	8981.0	8987.8
27.5°	9878.4	9926.0	9994.0	10027.9	10129.9	10109.5	10000.8	9824.0	9647.2	9531.6	9456.9
30°	10483.5	10510.6	10626.2	10673.8	10850.6	10898.2	10728.2	10524.2	10211.5	10061.9	9973.6
32.5°	11040.9	11231.3	11224.5	11462.5	11748.0	11945.2	11639.2	11326.5	11013.7	10837.0	10680.6
35°	11945.2	11911.2	12108.3	12359.9	12822.2	13046.5	12713.4	12353.1	11877.2	11591.6	11469.3
37.5°	12788.2	12801.8	13066.9	13468.0	13998.3	14345.1	14052.7	13461.2	12971.7	12604.6	12434.7
40°	14011.9	14039.1	14311.1	14766.6	15364.9	15738.8	15398.8	14800.6	14147.9	13862.4	13862.4
42.5°	15446.4	15562.0	15738.8	16133.1	16670.2	17084.9	16779.0	16309.9	15650.4	15283.3	15337.7
45°	16921.7	16976.1	17091.7	17676.4	17927.9	18131.9	17846.3	17628.8	17186.9	16738.2	16663.4
47.5°	18301.9	18322.2	18662.2	18845.7	19042.9	18872.9	19056.5	18771.0	18274.7	17839.5	17751.2
50°	18913.7	18879.7	19362.4	19919.9	20069.5	19770.4	19614.0	19423.6	18669.0	18145.5	17914.3
52.5°	17132.5	17329.7	18227.1	19777.1	20946.5	21198.1	20287.0	19410.0	18002.7	16982.9	16826.6
54°	15092.9	15276.5	16017.5	18315.4	20749.4	21599.2	20130.7	18267.9	16282.7	15072.5	14916.1
55°	13073.7	12869.8	14215.9	16561.4	19824.7	21245.6	19512.0	16792.6	14521.8	13413.7	13196.1
57.5°	7077.4	7111.3	8246.7	10463.1	13930.3	16289.5	14385.9	11360.5	8579.8	7335.7	7226.9
60°	2243.5	2297.9	2794.2	4228.7	6655.8	7947.6	6812.2	4561.9	3154.6	2529.1	2427.1
62.5°	700.3	727.5	795.4	1183.0	1822.0	2603.9	2039.6	1223.7	911.0	836.2	849.8
65°	428.3	428.3	435.1	462.3	543.9	632.3	611.9	537.1	516.7	503.1	496.3
67.5°	278.7	271.9	285.5	305.9	319.5	326.3	346.7	367.1	360.3	346.7	346.7
70°	170.0	163.2	176.8	204.0	210.8	224.4	244.7	271.9	265.1	251.5	258.3
72.5°	95.2	95.2	102.0	122.4	142.8	156.4	176.8	197.2	204.0	197.2	197.2
75°	34.0	40.8	54.4	74.8	88.4	108.8	129.2	149.6	170.0	156.4	149.6
77.5°	13.6	13.6	27.2	47.6	68.0	88.4	122.4	142.8	156.4	142.8	129.2
80°	6.8	6.8	20.4	40.8	61.2	81.6	102.0	122.4	129.2	115.6	102.0
82.5°	6.8	6.8	20.4	40.8	61.2	74.8	108.8	122.4	136.0	122.4	102.0
85°	0.0	6.8	20.4	40.8	54.4	61.2	61.2	40.8	34.0	20.4	20.4
87.5°	0.0	0.0	6.8	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)