

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: P651326

Luminaire Tested: **GALN-SA4D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651326
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-SA4D-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 17680.3 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

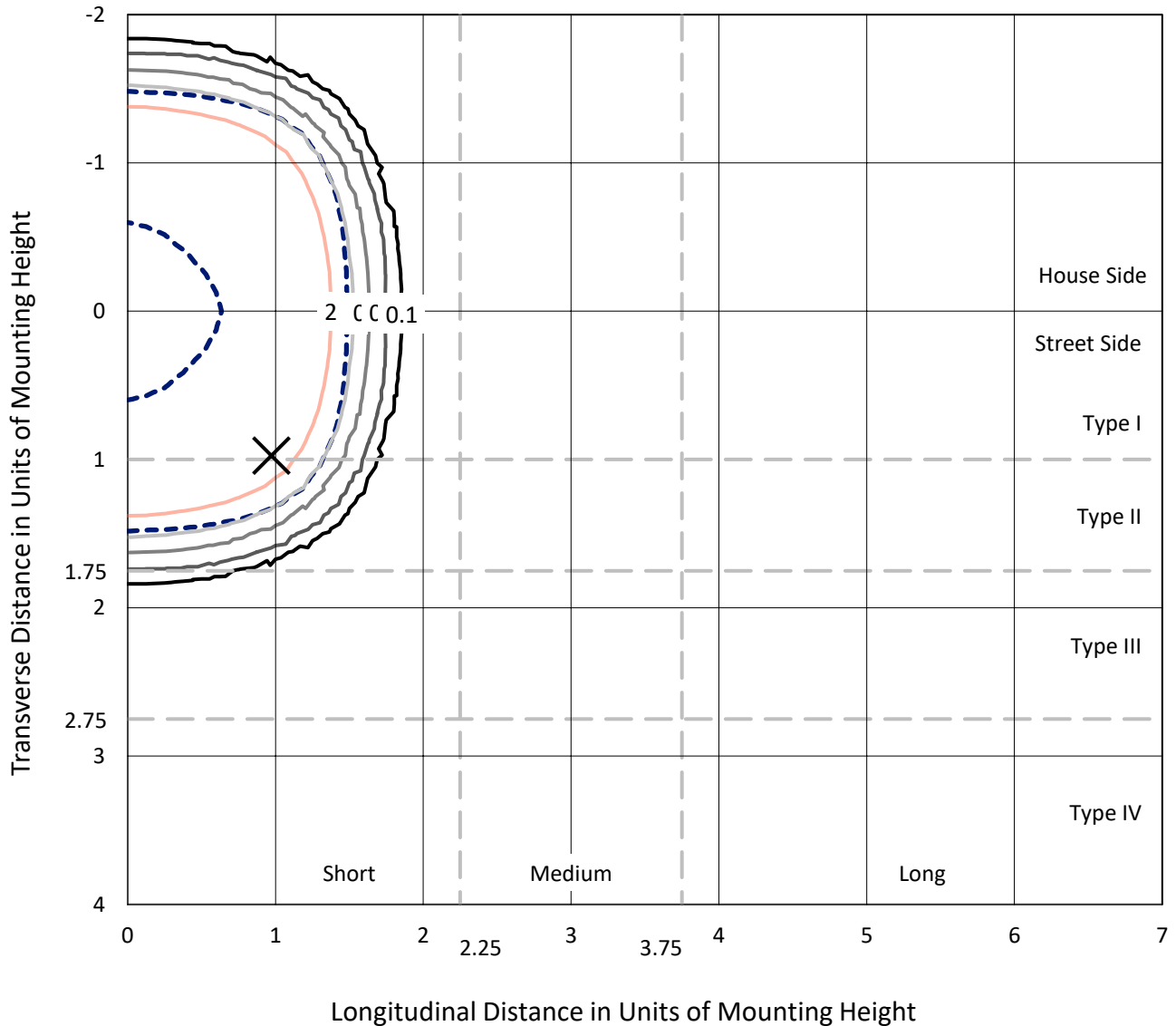
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651326
 CATALOG NUMBER: GALN-SA4D-840-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

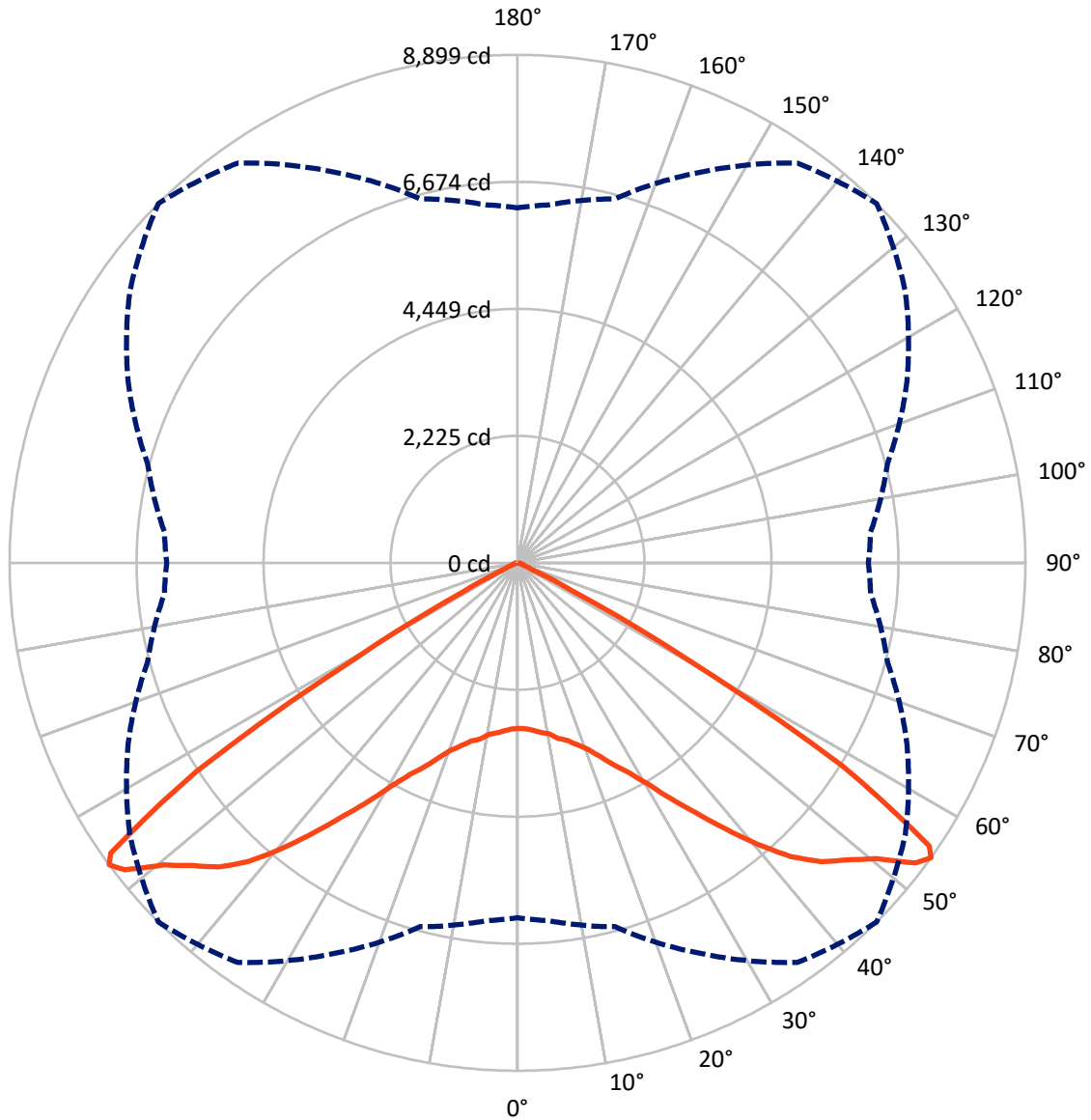
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P651326
CATALOG NUMBER: GALN-SA4D-840-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651326
 CATALOG NUMBER: GALN-SA4D-840-U-5NQ-GRSBK

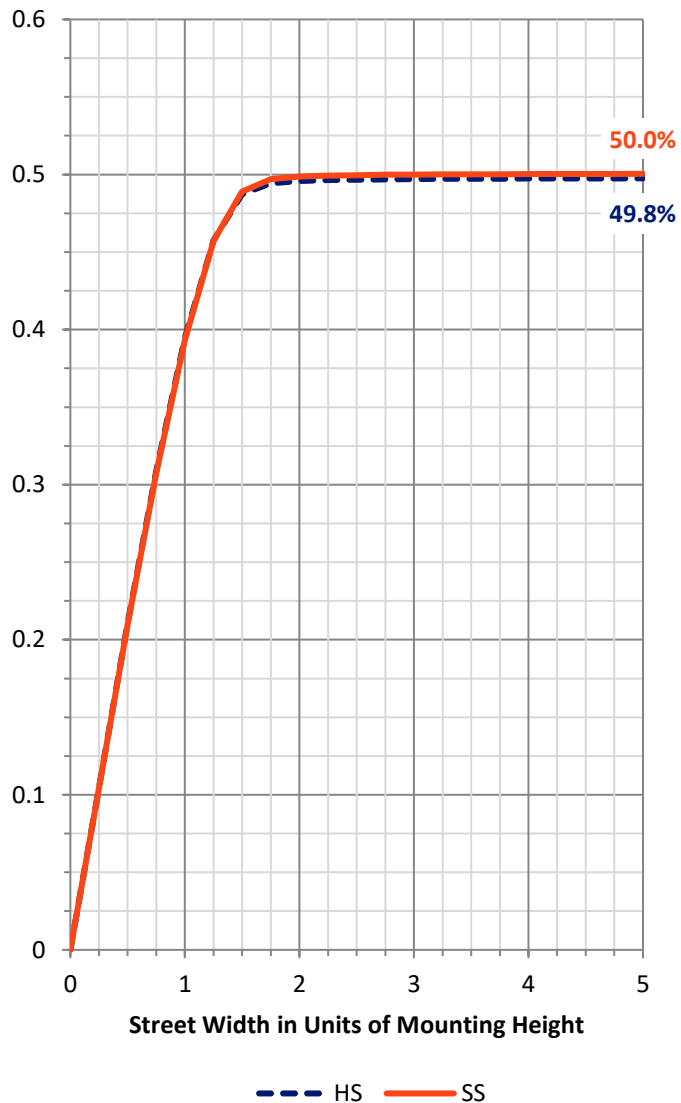
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8840.2	0.0	8840.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8840.2	0.0	8840.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	17680.3	0.0	17680.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.6
10°-20°	918.9	5.2
20°-30°	1800.9	10.2
30°-40°	3238.5	18.3
40°-50°	5543.6	31.4
50°-60°	5364.0	30.3
60°-70°	459.2	2.6
70°-80°	54.4	0.3
80°-90°	17.1	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°	17680.3	100.0
0°-180°	17680.3	100.0

Coefficient of Utilization

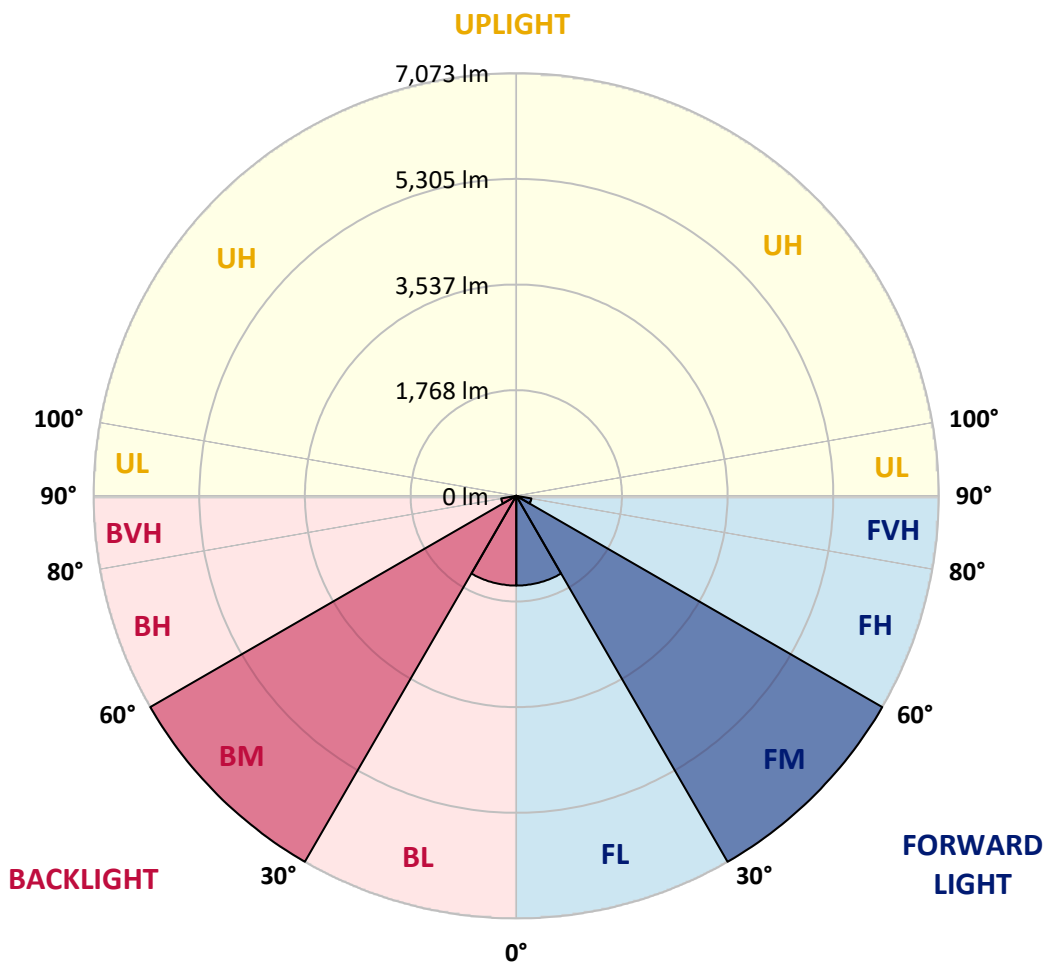


REPORT NUMBER: P651326
 CATALOG NUMBER: GALN-SA4D-840-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.8	8.5			
FM (30°-60°)	7073.1	40.0			
FH (60°-80°)	256.8	1.5			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	1501.8	8.5	B3/2500		
BM (30°-60°)	7073.1	40.0	B4/8500		
BH (60°-80°)	256.8	1.5	B1/500		G0/660
BVH (80°-90°)	8.5	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: P651326

CATALOG NUMBER: GALN-SA4D-840-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2899.0	2899.0	2899.0	2899.0	2899.0	2899.0	2899.0	2899.0	2899.0	2899.0	2899.0
2.5°	2913.1	2929.9	2918.6	2927.0	2927.0	2913.1	2921.5	2887.8	2910.2	2893.5	2896.2
5°	2957.9	2955.0	2955.0	2957.9	2946.6	2952.2	2941.1	2929.9	2921.5	2910.2	2943.8
7.5°	3013.9	3013.9	2994.3	2999.8	2994.3	3002.6	2980.3	2957.9	2949.5	2941.1	2935.4
10°	3067.0	3061.5	3053.1	3078.3	3058.7	3047.4	3036.3	3022.3	2991.4	2980.3	2969.1
12.5°	3145.5	3142.7	3131.5	3156.7	3145.5	3156.7	3114.7	3078.3	3072.7	3036.3	3055.9
15°	3237.9	3263.2	3243.6	3243.6	3237.9	3224.0	3207.2	3190.3	3139.9	3125.9	3128.7
17.5°	3358.4	3350.0	3352.8	3352.8	3380.8	3344.4	3310.8	3268.7	3243.6	3235.2	3207.2
20°	3473.2	3484.4	3481.7	3501.3	3518.1	3478.8	3442.4	3436.8	3366.8	3378.0	3338.8
22.5°	3674.9	3666.5	3680.5	3694.5	3683.3	3677.7	3644.1	3602.1	3540.4	3512.4	3506.8
25°	3887.8	3873.7	3848.6	3882.1	3899.0	3924.2	3859.8	3837.4	3742.1	3700.1	3702.9
27.5°	4069.9	4089.4	4117.5	4131.5	4173.5	4165.1	4120.2	4047.4	3974.6	3927.0	3896.2
30°	4319.1	4330.3	4377.9	4397.6	4470.4	4490.0	4420.0	4335.9	4207.1	4145.5	4109.0
32.5°	4548.8	4627.3	4624.4	4722.5	4840.1	4921.4	4795.3	4666.5	4537.6	4464.8	4400.4
35°	4921.4	4907.3	4988.6	5092.2	5282.7	5375.1	5237.8	5089.4	4893.4	4775.7	4725.2
37.5°	5268.7	5274.2	5383.5	5548.7	5767.2	5910.1	5789.6	5546.0	5344.3	5193.0	5123.0
40°	5772.9	5784.1	5896.1	6083.7	6330.2	6484.3	6344.3	6097.8	5828.9	5711.2	5711.2
42.5°	6363.8	6411.4	6484.3	6646.8	6868.0	7038.9	6912.9	6719.6	6447.9	6296.7	6319.0
45°	6971.6	6994.1	7041.7	7282.6	7386.3	7470.3	7352.6	7263.0	7080.9	6896.0	6865.3
47.5°	7540.2	7548.6	7688.8	7764.4	7845.6	7775.5	7851.2	7733.5	7529.1	7349.8	7313.4
50°	7792.4	7778.3	7977.2	8206.9	8268.5	8145.3	8080.8	8002.5	7691.5	7475.8	7380.6
52.5°	7058.5	7139.8	7509.5	8148.1	8629.8	8733.4	8358.2	7996.8	7417.0	6996.9	6932.4
54°	6218.2	6293.8	6599.2	7545.9	8548.6	8898.8	8293.8	7526.3	6708.4	6209.8	6145.4
55°	5386.3	5302.3	5856.9	6823.2	8167.7	8753.1	8038.9	6918.5	5983.0	5526.4	5436.7
57.5°	2915.8	2929.9	3397.6	4310.7	5739.2	6711.2	5926.9	4680.4	3534.9	3022.3	2977.5
60°	924.3	946.7	1151.2	1742.2	2742.2	3274.3	2806.6	1879.5	1299.7	1042.0	999.9
62.5°	288.5	299.7	327.7	487.4	750.7	1072.8	840.3	504.2	375.3	344.6	350.1
65°	176.4	176.4	179.3	190.5	224.0	260.5	252.0	221.3	212.9	207.3	204.4
67.5°	114.9	112.0	117.7	126.1	131.6	134.5	142.9	151.2	148.4	142.9	142.9
70°	70.1	67.2	72.8	84.0	86.8	92.4	100.8	112.0	109.2	103.6	106.5
72.5°	39.2	39.2	42.0	50.4	58.8	64.4	72.8	81.2	84.0	81.2	81.2
75°	14.0	16.8	22.4	30.8	36.4	44.8	53.2	61.6	70.1	64.4	61.6
77.5°	5.6	5.6	11.2	19.6	28.0	36.4	50.4	58.8	64.4	58.8	53.2
80°	2.8	2.8	8.4	16.8	25.2	33.6	42.0	50.4	53.2	47.6	42.0
82.5°	2.8	2.8	8.4	16.8	25.2	30.8	44.8	50.4	56.0	50.4	42.0
85°	0.0	2.8	8.4	16.8	22.4	25.2	25.2	16.8	14.0	8.4	8.4
87.5°	0.0	0.0	2.8	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)