

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: P529110

Luminaire Tested: **GALN-SA4B-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17392 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

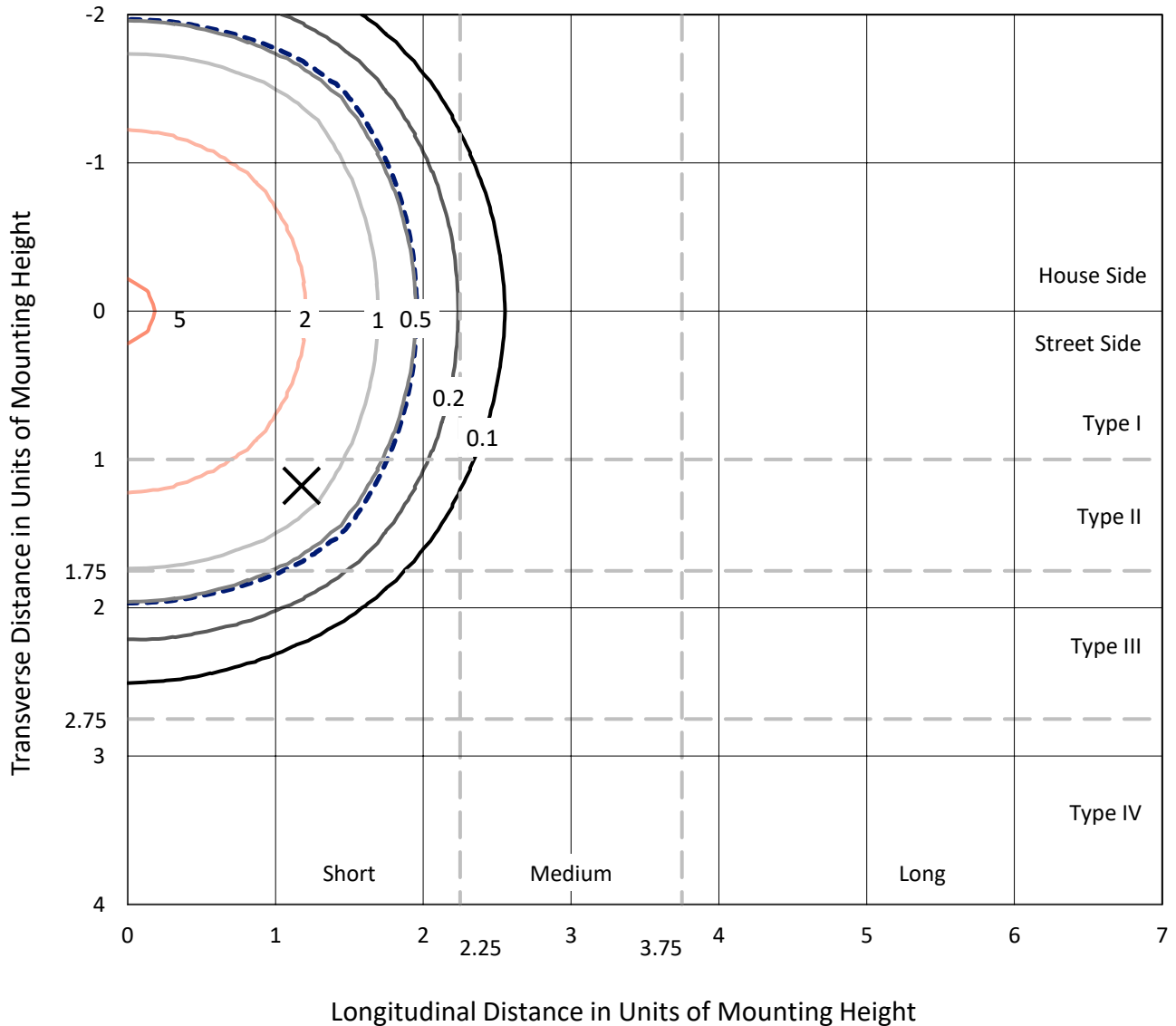
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529110
 CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

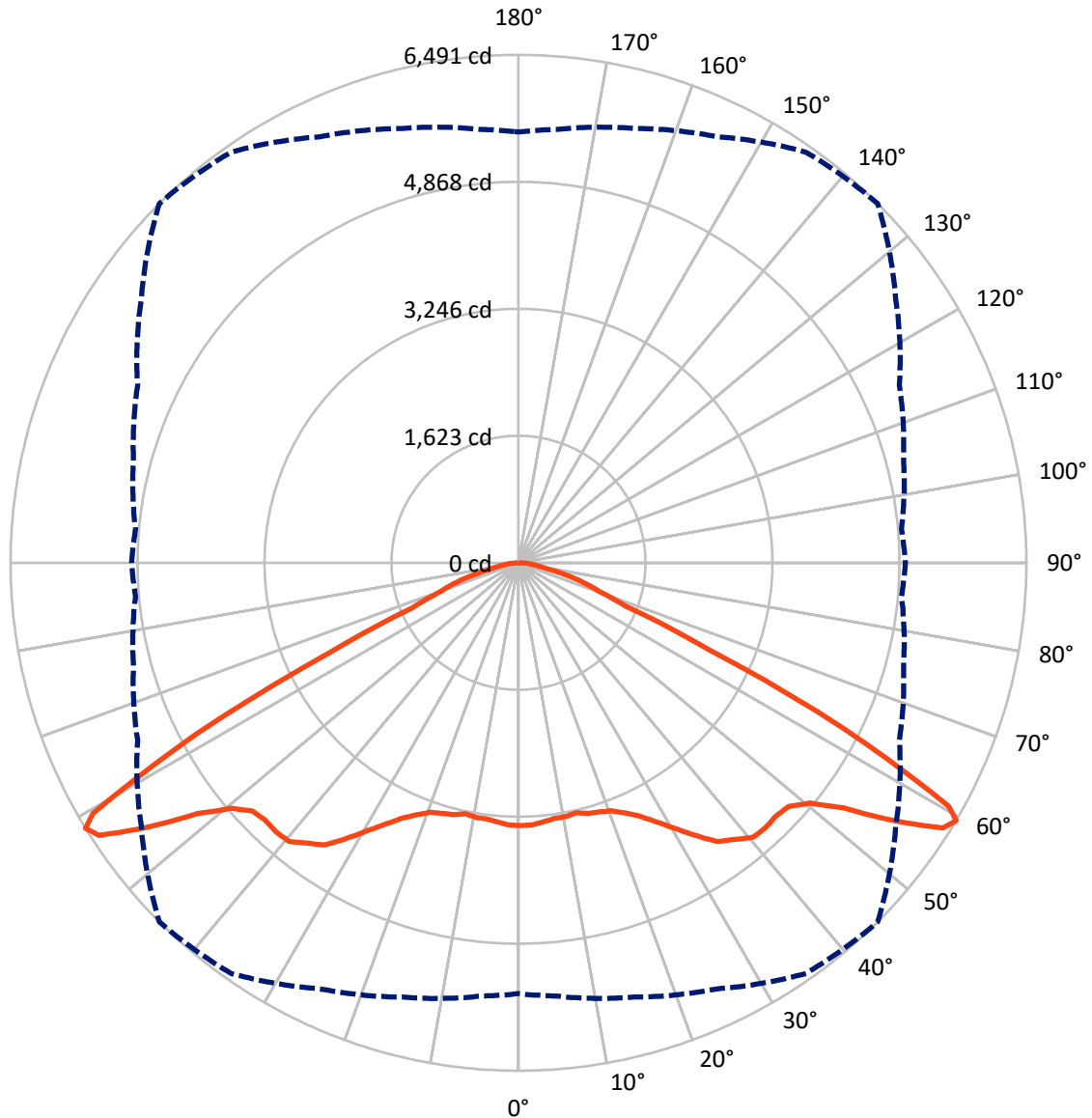
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529110
CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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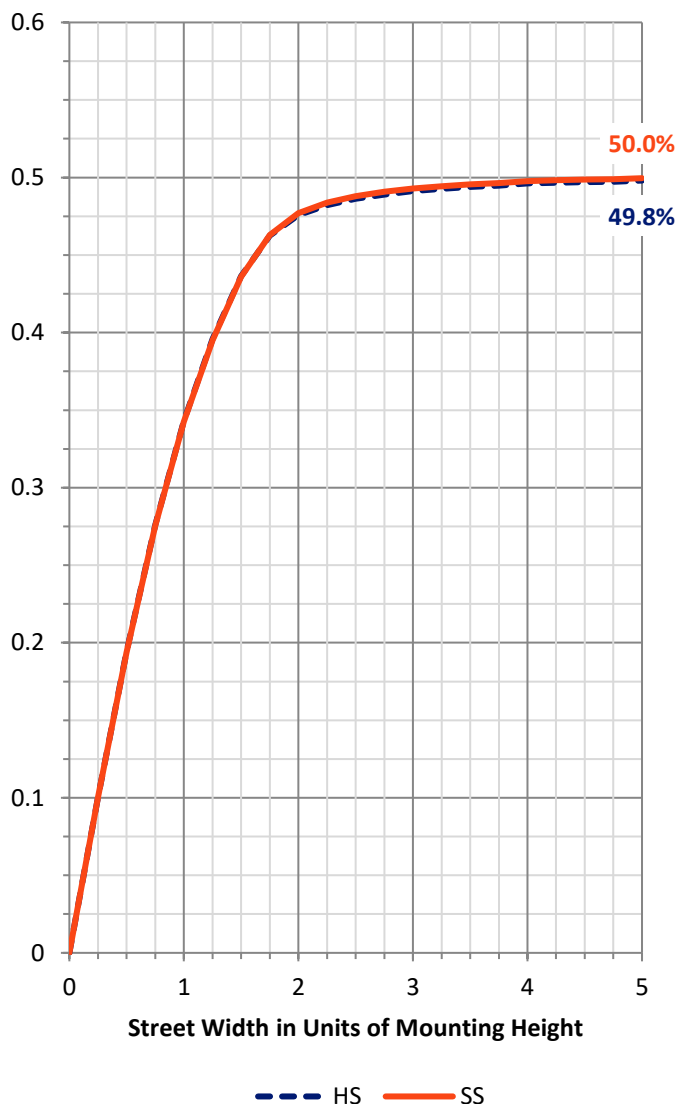
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8696.0	0.0	8696.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8696.0	0.0	8696.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17392.0	0.0	17392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.8
10°-20°	941.7	5.4
20°-30°	1644.4	9.5
30°-40°	2626.3	15.1
40°-50°	3577.5	20.6
50°-60°	4837.8	27.8
60°-70°	2653.1	15.3
70°-80°	678.7	3.9
80°-90°	115.8	0.7
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°	17392.0	100.0
0°-180°	17392.0	100.0

Coefficient of Utilization



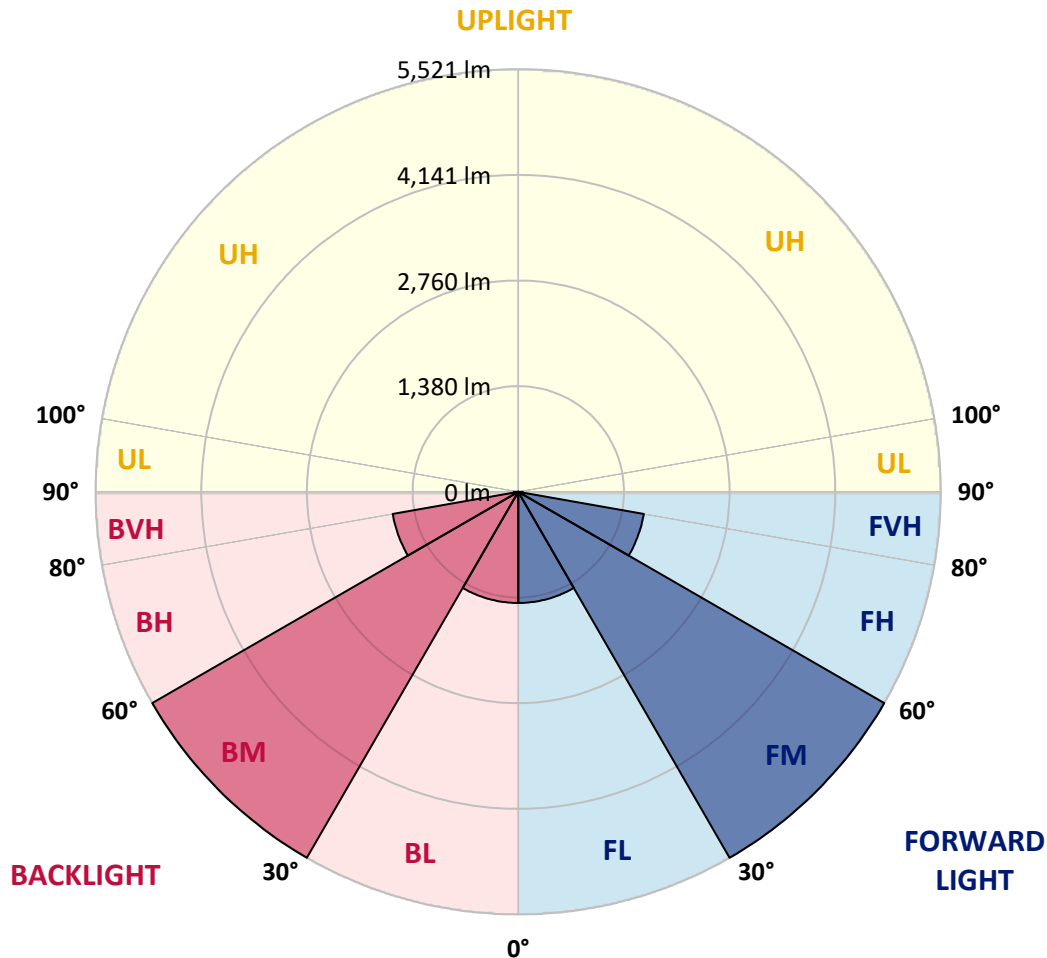
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 CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.4	8.3			
FM (30°-60°)	5520.8	31.7			
FH (60°-80°)	1665.9	9.6			G1/1800
FVH (80°-90°)	57.9	0.3			G1/100
BL (0°-30°)	1451.4	8.3	B3/2500		
BM (30°-60°)	5520.8	31.7	B4/8500		
BH (60°-80°)	1665.9	9.6	B3/2500		G1/1800
BVH (80°-90°)	57.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3339.2	3363.8	3345.9	3361.5	3359.3	3352.6	3341.5	3334.8	3325.9	3339.2	3316.9
5°	3325.9	3345.9	3366.0	3339.2	3339.2	3325.9	3319.2	3305.8	3305.8	3303.6	3301.3
7.5°	3348.2	3328.1	3319.2	3323.6	3328.1	3299.1	3319.2	3292.4	3270.1	3285.7	3303.6
10°	3328.1	3337.0	3303.6	3319.2	3294.7	3299.1	3285.7	3303.6	3279.1	3279.1	3279.1
12.5°	3348.2	3323.6	3334.8	3323.6	3316.9	3279.1	3296.9	3276.8	3274.6	3296.9	3276.8
15°	3388.3	3348.2	3339.2	3316.9	3323.6	3323.6	3305.8	3308.0	3283.5	3296.9	3301.3
17.5°	3374.9	3352.6	3345.9	3319.2	3341.5	3348.2	3314.7	3292.4	3308.0	3305.8	3303.6
20°	3386.1	3395.0	3388.3	3392.7	3401.7	3383.8	3352.6	3321.4	3301.3	3330.3	3328.1
22.5°	3457.4	3448.5	3444.0	3439.6	3455.2	3473.0	3430.6	3381.6	3381.6	3401.7	3410.6
25°	3515.3	3513.1	3510.9	3530.9	3584.4	3584.4	3530.9	3468.5	3452.9	3466.3	3455.2
27.5°	3600.0	3624.6	3615.7	3651.3	3729.3	3747.2	3675.8	3602.3	3559.9	3544.3	3564.4
30°	3794.0	3765.0	3771.7	3809.6	3878.7	3936.6	3827.4	3749.4	3691.4	3689.2	3698.1
32.5°	3923.3	3945.6	3965.6	4001.3	4110.5	4155.1	4023.6	3896.5	3860.9	3840.8	3847.5
35°	4181.9	4161.8	4157.3	4193.0	4302.2	4375.8	4210.8	4099.4	4052.6	4097.1	4097.1
37.5°	4427.1	4371.3	4329.0	4375.8	4476.1	4485.0	4344.6	4284.4	4259.9	4311.1	4308.9
40°	4543.0	4538.5	4440.4	4467.2	4600.9	4614.3	4482.8	4411.5	4407.0	4473.9	4540.7
42.5°	4663.3	4621.0	4522.9	4540.7	4623.2	4627.7	4502.8	4482.8	4531.8	4596.5	4600.9
45°	4683.4	4647.7	4585.3	4540.7	4600.9	4614.3	4540.7	4554.1	4558.6	4636.6	4636.6
47.5°	4723.5	4719.1	4683.4	4650.0	4661.1	4650.0	4603.2	4623.2	4690.1	4728.0	4710.2
50°	4835.0	4788.2	4823.8	4794.9	4797.1	4828.3	4785.9	4806.0	4792.6	4759.2	4736.9
52.5°	5080.2	5057.9	5089.1	5109.2	5131.5	5202.8	5153.8	5046.8	4946.4	4857.3	4855.1
55°	5439.1	5454.7	5514.9	5617.4	5704.4	5818.0	5581.7	5325.4	5164.9	5024.5	5033.4
57.5°	5777.9	5766.8	5849.2	6083.3	6337.4	6395.4	5931.7	5566.1	5305.3	5216.2	5178.3
59°	5506.0	5559.5	5746.7	6007.5	6406.5	6491.2	5884.9	5370.0	5093.6	4913.0	4944.2
60°	5078.0	5098.0	5265.2	5628.6	6168.0	6312.9	5570.6	5066.8	4699.0	4594.2	4641.1
62.5°	3588.9	3573.3	3693.7	3990.1	4473.9	4670.0	4141.7	3787.3	3555.5	3439.6	3466.3
65°	1908.1	1979.5	2028.5	2213.5	2469.9	2677.2	2458.7	2304.9	2175.6	2079.8	2077.6
67.5°	1288.4	1279.5	1290.7	1333.0	1420.0	1477.9	1473.5	1395.4	1384.3	1366.5	1386.5
70°	1085.6	1081.1	1061.1	1061.1	1078.9	1092.3	1107.9	1116.8	1134.6	1156.9	1154.7
72.5°	880.5	869.4	856.0	849.3	871.6	878.3	898.3	907.3	922.9	920.6	940.7
75°	581.8	581.8	597.4	615.2	621.9	635.3	637.5	664.3	664.3	668.7	650.9
77.5°	325.5	316.5	327.7	345.5	361.1	385.6	410.2	430.2	441.4	436.9	436.9
80°	189.5	189.5	200.6	220.7	240.7	263.0	280.9	296.5	307.6	303.2	294.2
82.5°	118.1	118.1	129.3	149.4	165.0	178.3	202.9	222.9	236.3	231.8	220.7
85°	60.2	60.2	73.6	86.9	107.0	115.9	113.7	104.8	102.5	91.4	91.4
87.5°	15.6	15.6	22.3	24.5	20.1	22.3	22.3	22.3	22.3	22.3	24.5
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)