

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: P533061

Luminaire Tested: **GALN-SA8C-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24765 lumens  
Efficiency: N/A  
Efficacy: 57.7 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

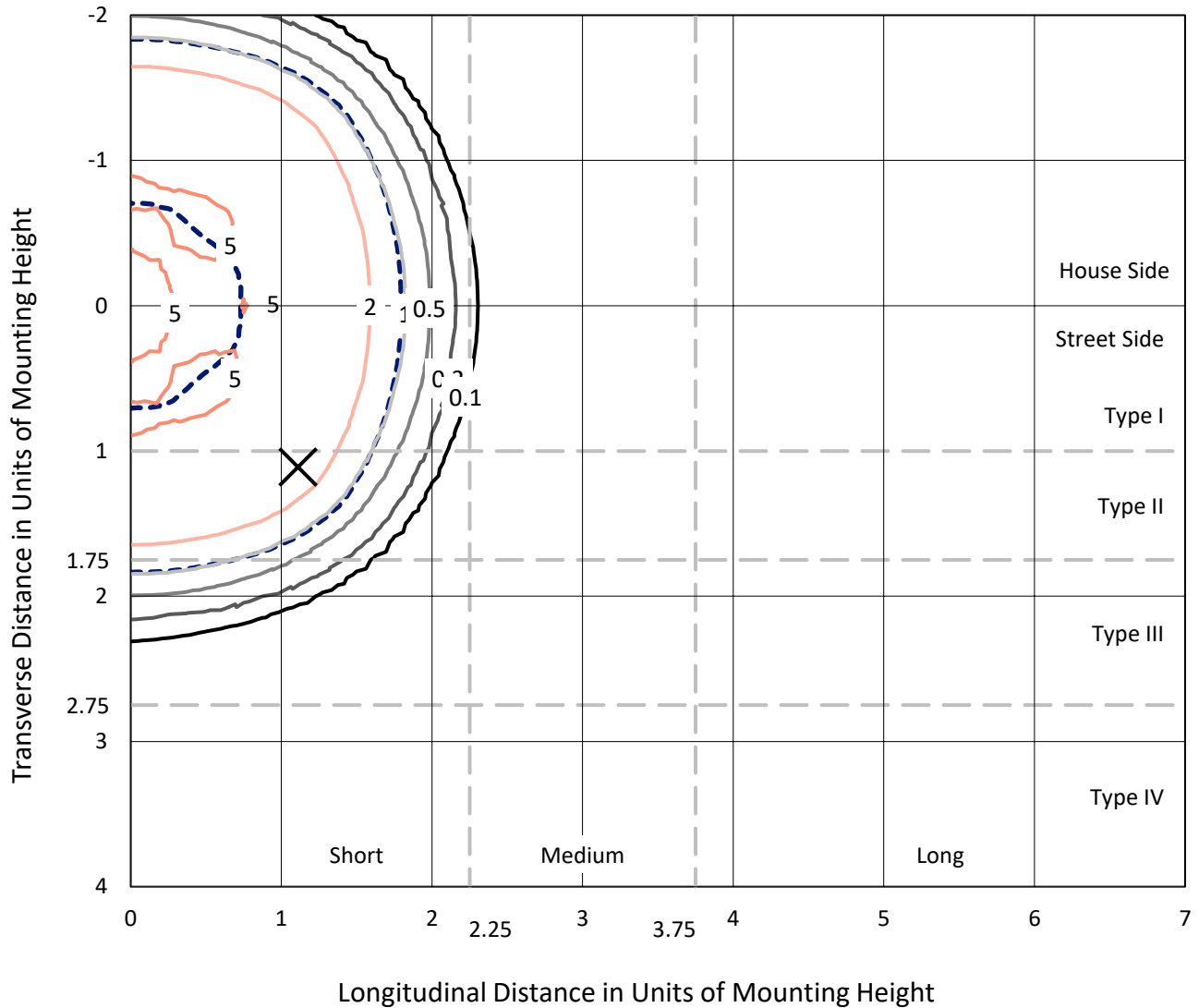
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

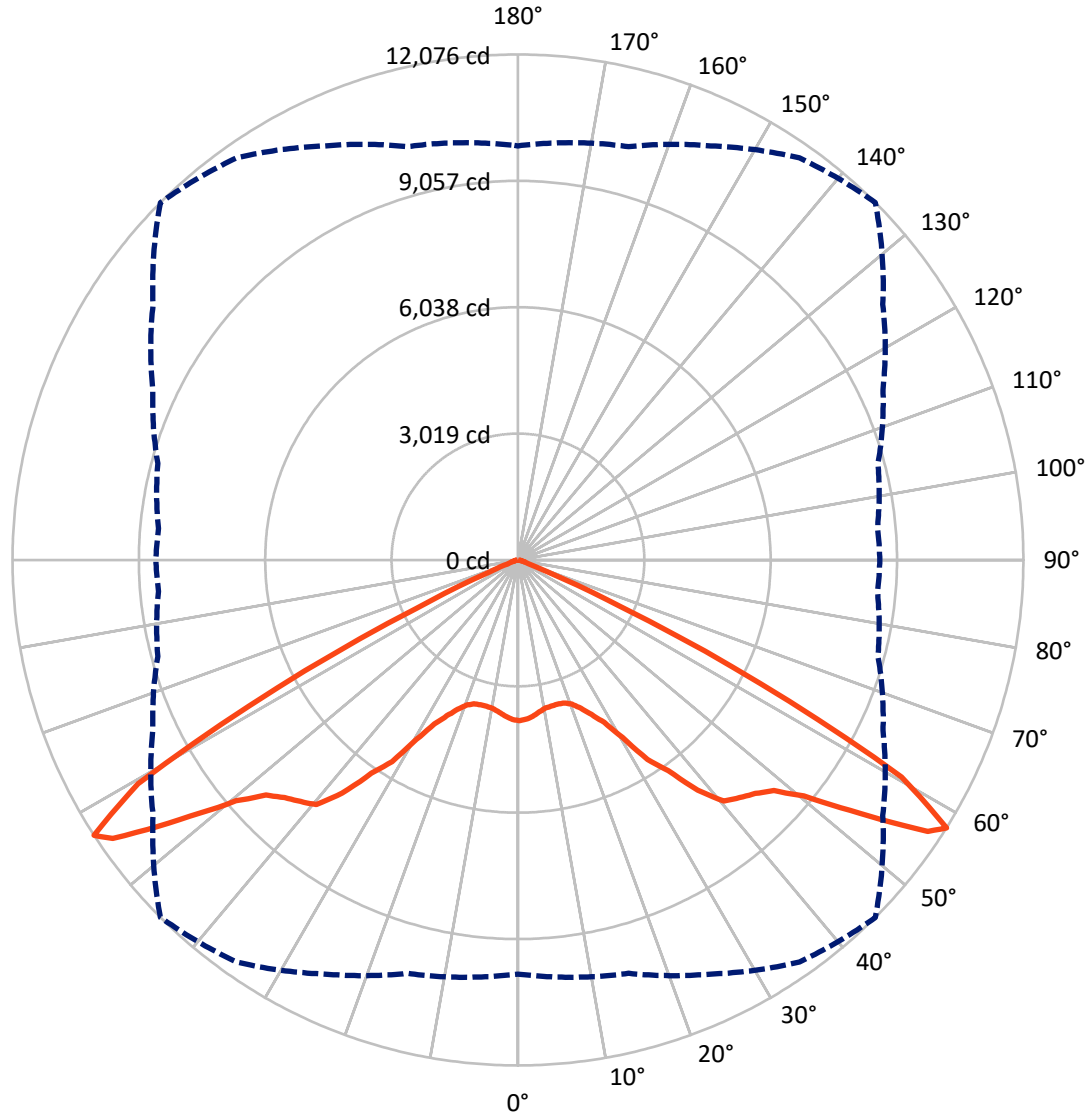
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12382.5	0.0	12382.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12382.5	0.0	12382.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24765.0	0.0	24765.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.0	1.4
10°-20°	1020.3	4.1
20°-30°	1883.4	7.6
30°-40°	3703.9	15.0
40°-50°	6032.6	24.4
50°-60°	8603.3	34.7
60°-70°	2978.7	12.0
70°-80°	159.8	0.6
80°-90°	30.0	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°	24765.0	100.0
0°-180°	24765.0	100.0

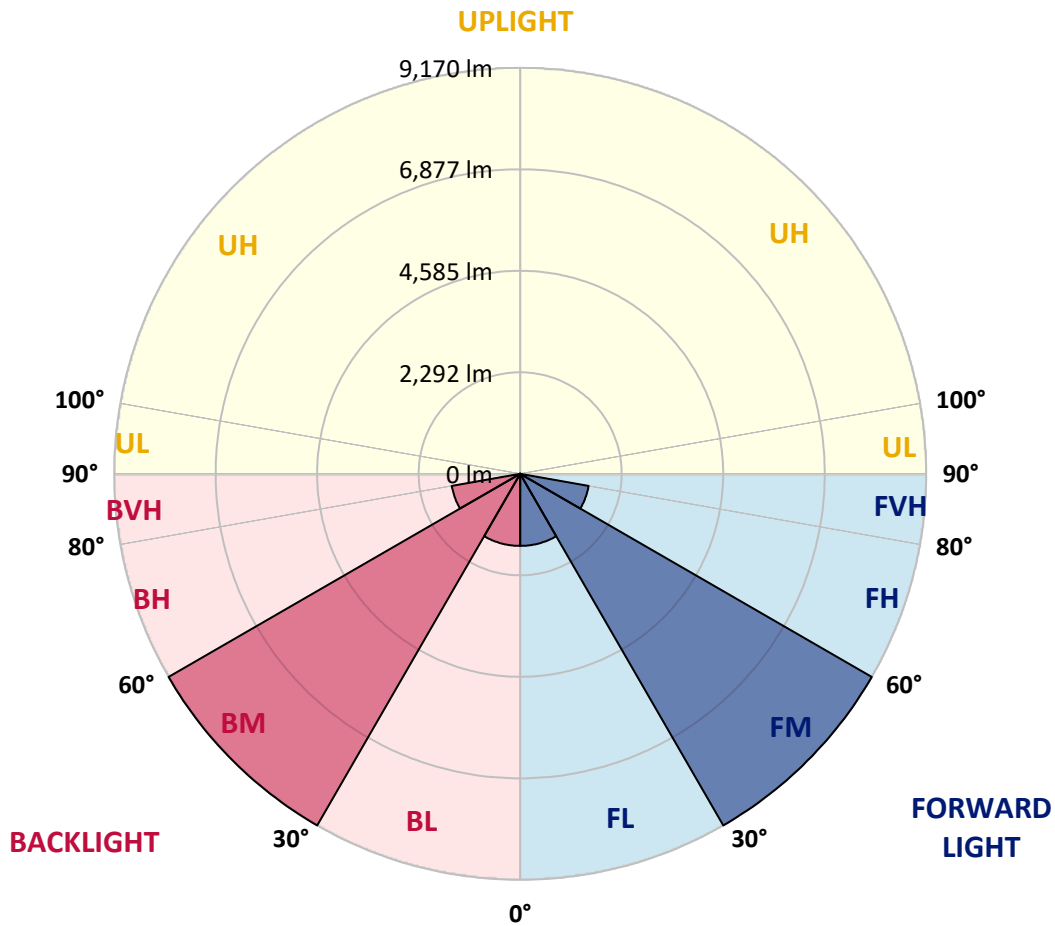


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.4	6.6			
FM (30°-60°)	9169.9	37.0			
FH (60°-80°)	1569.2	6.3			G1/1800
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	1628.4	6.6	B3/2500		
BM (30°-60°)	9169.9	37.0	B5		
BH (60°-80°)	1569.2	6.3	B3/2500		G1/1800
BVH (80°-90°)	15.0	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3841.3	3841.3	3841.3	3841.3	3841.3	3841.3	3841.3	3841.3	3841.3	3841.3	3841.3
2.5°	3831.0	3851.6	3825.8	3815.5	3810.3	3810.3	3794.8	3794.8	3789.7	3794.8	3774.2
5°	3769.0	3789.7	3789.7	3784.5	3753.5	3748.4	3732.9	3722.6	3727.7	3707.1	3722.6
7.5°	3707.1	3722.6	3701.9	3696.7	3686.4	3665.8	3660.6	3614.1	3619.3	3619.3	3629.6
10°	3696.7	3691.6	3660.6	3634.8	3603.8	3598.6	3583.2	3572.8	3572.8	3567.7	3583.2
12.5°	3696.7	3670.9	3665.8	3609.0	3557.3	3578.0	3536.7	3510.9	3547.0	3557.3	3578.0
15°	3691.6	3717.4	3629.6	3603.8	3567.7	3572.8	3536.7	3510.9	3531.5	3541.9	3557.3
17.5°	3722.6	3707.1	3681.3	3629.6	3614.1	3593.5	3547.0	3526.4	3526.4	3552.2	3557.3
20°	3805.2	3763.9	3712.2	3686.4	3701.9	3676.1	3619.3	3541.9	3562.5	3583.2	3598.6
22.5°	3882.6	3851.6	3815.5	3800.0	3887.8	3846.5	3748.4	3660.6	3629.6	3665.8	3691.6
25°	4032.3	4032.3	3965.2	3985.9	4084.0	4089.1	3975.6	3820.7	3800.0	3815.5	3825.8
27.5°	4337.0	4352.5	4295.7	4316.3	4357.6	4393.8	4295.7	4166.6	4120.1	4115.0	4130.4
30°	4667.4	4698.4	4693.2	4781.0	4899.7	4920.4	4775.8	4564.1	4424.7	4398.9	4419.6
32.5°	5101.1	5116.6	5106.3	5209.5	5529.6	5679.4	5302.5	5003.0	4817.1	4863.6	4817.1
35°	5916.9	5901.4	5787.8	5808.4	6071.7	6180.2	5818.8	5627.7	5540.0	5632.9	5612.2
37.5°	6619.0	6562.2	6469.3	6603.5	6877.2	6975.3	6598.4	6262.8	6102.7	6257.6	6324.7
40°	7212.8	7068.2	6939.1	7073.4	7440.0	7574.2	7021.8	6748.1	6686.2	6799.7	6944.3
42.5°	7713.6	7620.7	7450.3	7460.6	7703.3	7765.2	7321.2	7161.2	7099.2	7279.9	7352.2
45°	8069.9	7982.1	7822.0	7811.7	7997.6	7956.3	7558.7	7450.3	7486.4	7605.2	7641.3
47.5°	8250.6	8297.0	8204.1	8229.9	8328.0	8229.9	7915.0	7915.0	7832.4	7904.6	7868.5
50°	8772.0	8627.5	8746.2	8746.2	8849.5	8859.8	8544.9	8431.3	8209.3	8085.3	8085.3
52.5°	9381.3	9391.6	9438.1	9608.4	9784.0	9933.7	9484.5	8999.2	8627.5	8467.4	8446.8
55°	9882.1	9985.3	10171.2	10491.3	10997.3	11203.8	10429.4	9562.0	9107.6	8859.8	8808.2
56°	10155.7	10057.6	10377.7	10816.6	11477.5	11745.9	10584.3	9675.6	9174.7	8895.9	8890.8
57.5°	9892.4	10000.8	10222.8	10914.7	11725.3	12076.4	10641.1	9623.9	8906.3	8622.3	8648.1
60°	7811.7	7915.0	8214.4	8988.9	10259.0	10532.6	9004.4	7935.6	7295.4	6887.5	6892.7
62.5°	4419.6	4497.0	4729.4	5447.0	6237.0	6500.3	5612.2	4899.7	4455.7	4228.5	4156.3
65°	1626.4	1595.4	1631.5	1998.1	2483.4	2705.4	2333.7	1972.3	1739.9	1657.3	1626.4
67.5°	609.2	562.8	526.6	562.8	707.3	748.6	686.7	573.1	537.0	552.4	562.8
70°	376.9	356.3	284.0	268.5	263.3	258.2	273.6	289.1	330.4	387.2	397.6
72.5°	263.3	247.8	201.4	191.0	180.7	175.5	201.4	222.0	258.2	299.5	304.6
75°	103.3	108.4	103.3	113.6	118.8	123.9	144.6	160.1	175.5	175.5	170.4
77.5°	20.7	20.7	31.0	41.3	51.6	67.1	98.1	113.6	118.8	113.6	98.1
80°	0.0	0.0	10.3	20.7	41.3	56.8	87.8	98.1	108.4	98.1	77.4
82.5°	0.0	0.0	10.3	25.8	41.3	51.6	82.6	103.3	118.8	108.4	82.6
85°	0.0	0.0	10.3	20.7	31.0	36.1	36.1	25.8	25.8	15.5	10.3
87.5°	0.0	0.0	0.0	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)