

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: P647641

Luminaire Tested: **GALN-SA9D-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647641  
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-SA9D-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 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: 37723.4 lumens  
Efficiency: N/A  
Efficacy: 68.3 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

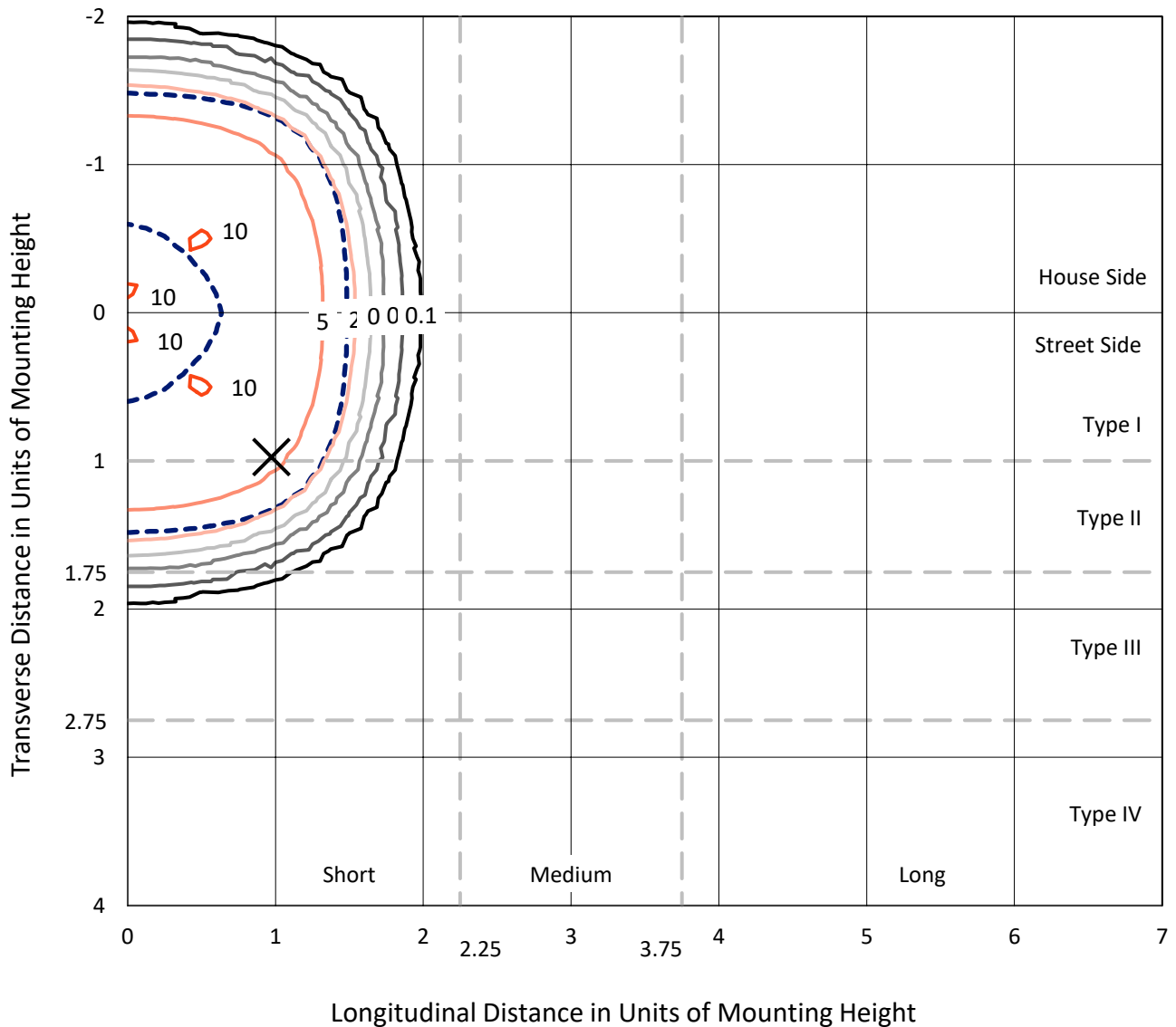
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

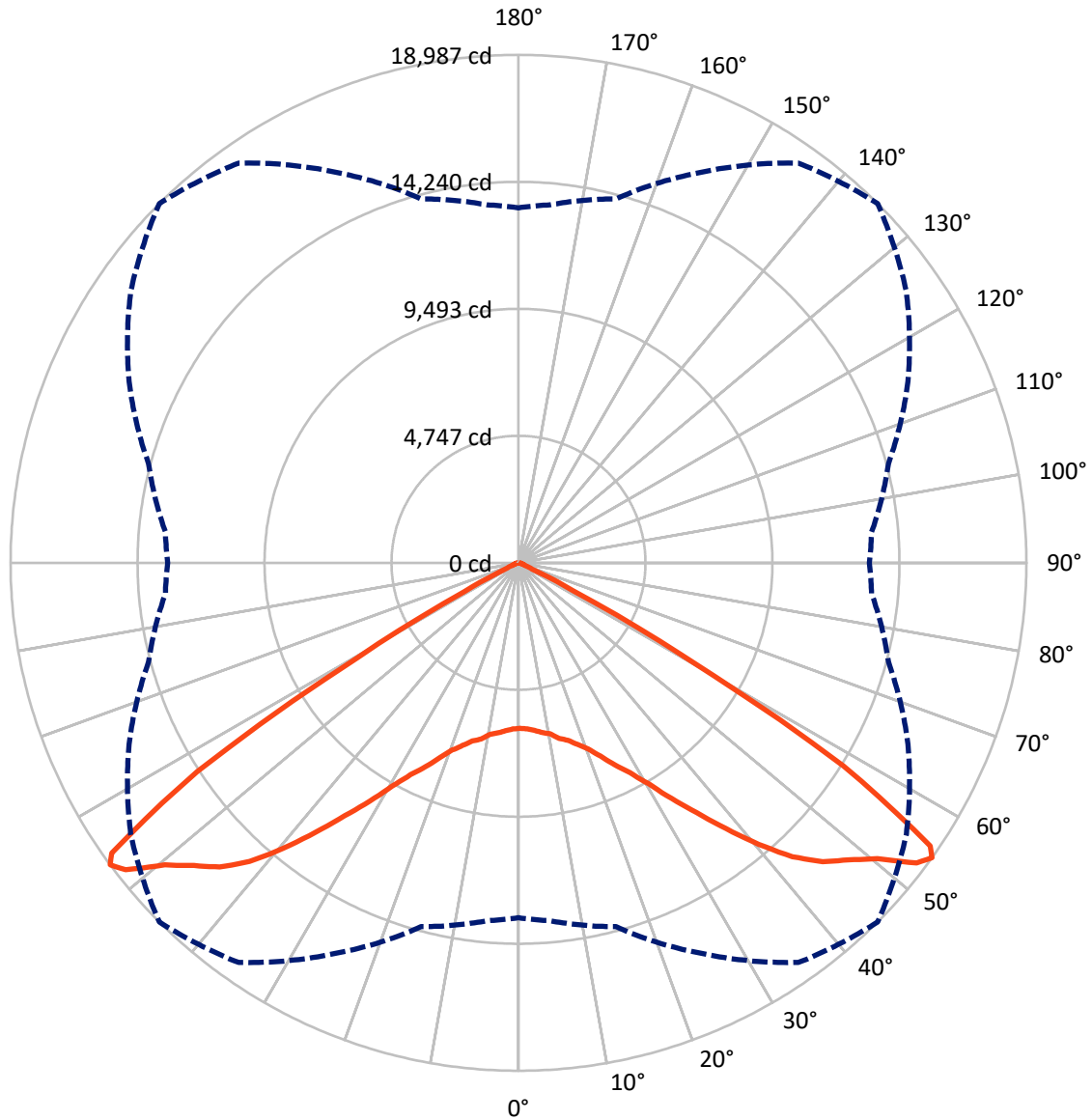
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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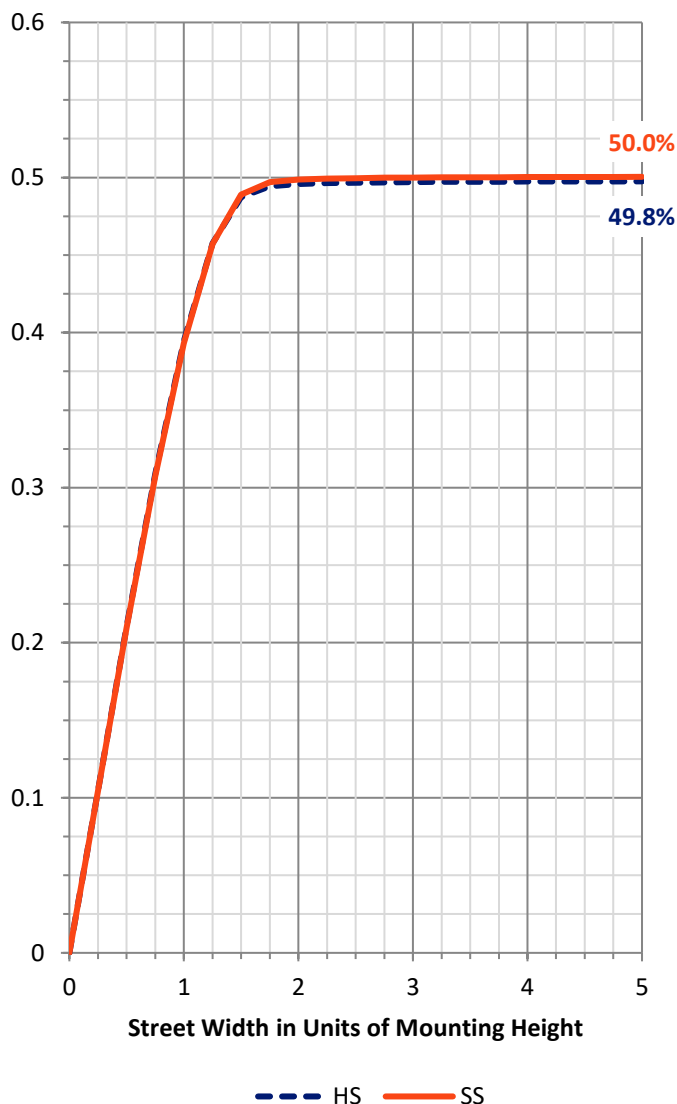
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18861.7	0.0	18861.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18861.7	0.0	18861.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37723.4	0.0	37723.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	605.4	1.6
10°-20°	1960.5	5.2
20°-30°	3842.6	10.2
30°-40°	6909.7	18.3
40°-50°	11828.1	31.4
50°-60°	11444.8	30.3
60°-70°	979.7	2.6
70°-80°	116.1	0.3
80°-90°	36.4	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°	37723.4	100.0
0°-180°	37723.4	100.0

**Coefficient of Utilization**

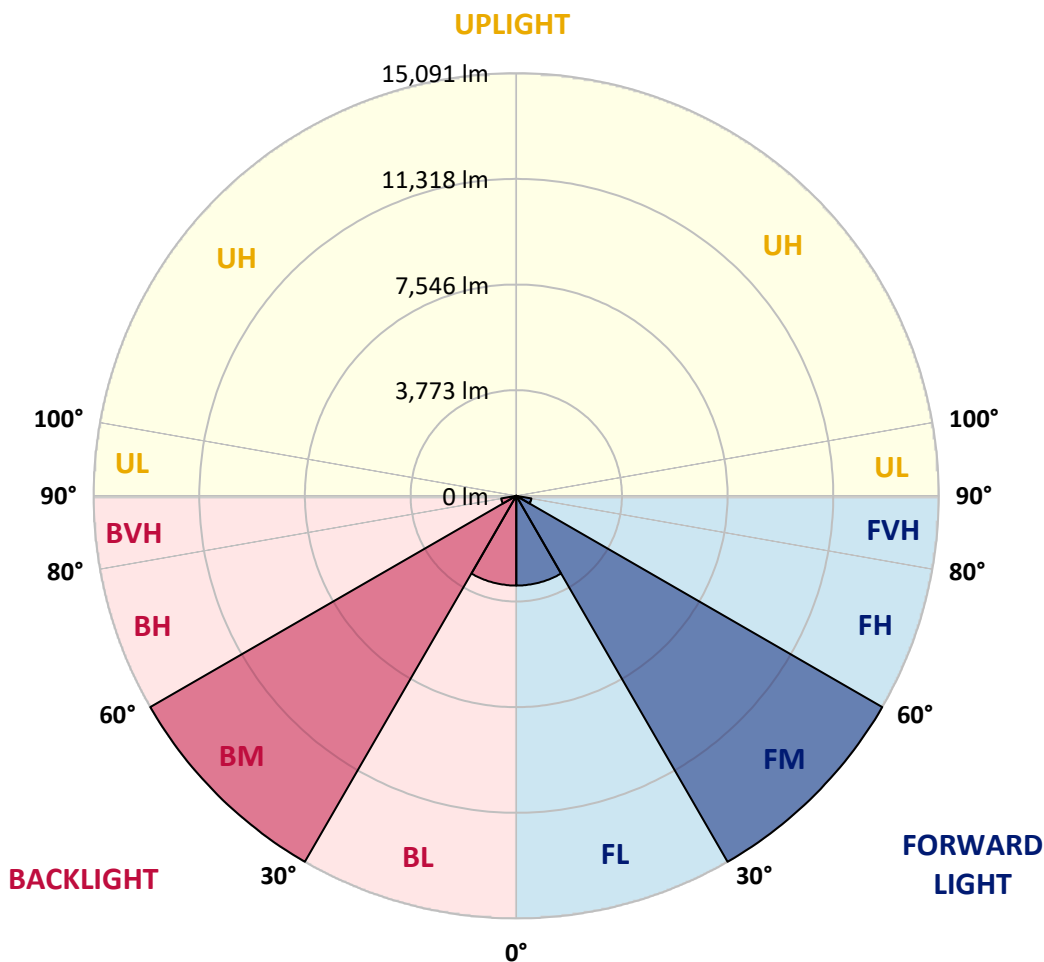


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3204.2	8.5			
FM	(30°-60°)	15091.3	40.0			
FH	(60°-80°)	547.9	1.5			G0/660
FVH	(80°-90°)	18.2	0.0			G1/100
BL	(0°-30°)	3204.2	8.5	B4/5000		
BM	(30°-60°)	15091.3	40.0	B5		
BH	(60°-80°)	547.9	1.5	B2/1000		G0/660
BVH	(80°-90°)	18.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6185.5	6185.5	6185.5	6185.5	6185.5	6185.5	6185.5	6185.5	6185.5	6185.5	6185.5
2.5°	6215.4	6251.2	6227.3	6245.2	6245.2	6215.4	6233.3	6161.6	6209.3	6173.5	6179.5
5°	6311.0	6305.0	6305.0	6311.0	6287.0	6299.0	6275.1	6251.2	6233.3	6209.3	6281.1
7.5°	6430.5	6430.5	6388.7	6400.6	6388.7	6406.6	6358.7	6311.0	6293.0	6275.1	6263.1
10°	6544.0	6532.1	6514.2	6568.0	6526.1	6502.2	6478.3	6448.4	6382.7	6358.7	6334.9
12.5°	6711.4	6705.4	6681.5	6735.3	6711.4	6735.3	6645.6	6568.0	6556.0	6478.3	6520.1
15°	6908.6	6962.4	6920.5	6920.5	6908.6	6878.7	6842.9	6807.0	6699.4	6669.5	6675.5
17.5°	7165.5	7147.6	7153.6	7153.6	7213.4	7135.7	7064.0	6974.3	6920.5	6902.6	6842.9
20°	7410.6	7434.5	7428.6	7470.4	7506.2	7422.5	7344.9	7332.9	7183.5	7207.4	7123.7
22.5°	7840.9	7823.0	7852.9	7882.7	7858.8	7846.8	7775.1	7685.5	7554.0	7494.2	7482.3
25°	8295.1	8265.2	8211.4	8283.1	8319.0	8372.8	8235.4	8187.5	7984.3	7894.7	7900.6
27.5°	8683.5	8725.4	8785.2	8815.0	8904.7	8886.7	8791.1	8635.7	8480.4	8378.7	8313.0
30°	9215.4	9239.3	9341.0	9382.8	9538.2	9580.0	9430.6	9251.3	8976.4	8844.9	8767.3
32.5°	9705.5	9872.8	9866.8	10076.0	10327.0	10500.3	10231.4	9956.5	9681.6	9526.2	9388.7
35°	10500.3	10470.4	10643.8	10864.9	11271.3	11468.5	11175.7	10858.9	10440.6	10189.6	10082.0
37.5°	11241.4	11253.4	11486.5	11839.0	12305.2	12610.0	12353.0	11833.1	11402.8	11080.1	10930.6
40°	12317.1	12341.0	12580.1	12980.5	13506.4	13835.1	13536.3	13010.4	12436.6	12185.7	12185.7
42.5°	13578.2	13679.7	13835.1	14181.7	14653.8	15018.4	14749.4	14337.1	13757.4	13434.7	13482.5
45°	14875.0	14922.8	15024.4	15538.3	15759.4	15938.7	15687.7	15496.5	15108.1	14713.6	14647.9
47.5°	16088.1	16106.1	16404.9	16566.2	16739.6	16590.2	16751.5	16500.6	16064.3	15681.8	15604.1
50°	16626.1	16596.2	17020.5	17510.5	17642.0	17379.1	17241.6	17074.3	16410.9	15950.7	15747.5
52.5°	15060.2	15233.6	16022.5	17385.0	18412.9	18634.1	17833.2	17062.3	15825.2	14928.8	14791.3
54°	13267.4	13428.7	14080.1	16100.1	18239.6	18986.7	17695.8	16058.3	14313.2	13249.5	13112.0
55°	11492.4	11313.1	12496.4	14558.2	17426.8	18675.9	17151.9	14761.4	12765.3	11791.2	11600.0
57.5°	6221.3	6251.2	7249.2	9197.5	12245.4	14319.2	12645.8	9986.4	7542.1	6448.4	6352.8
60°	1972.1	2020.0	2456.3	3717.2	5850.8	6986.3	5988.2	4010.1	2773.0	2223.2	2133.5
62.5°	615.6	639.5	699.2	1039.9	1601.6	2288.9	1792.9	1075.8	800.9	735.1	747.1
65°	376.5	376.5	382.5	406.4	478.1	555.8	537.8	472.1	454.2	442.2	436.3
67.5°	245.0	239.0	251.0	269.0	280.9	286.9	304.8	322.8	316.7	304.8	304.8
70°	149.4	143.4	155.3	179.3	185.3	197.2	215.2	239.0	233.1	221.1	227.1
72.5°	83.7	83.7	89.7	107.6	125.5	137.4	155.3	173.3	179.3	173.3	173.3
75°	29.9	35.9	47.8	65.8	77.7	95.6	113.5	131.5	149.4	137.4	131.5
77.5°	12.0	12.0	23.9	41.8	59.7	77.7	107.6	125.5	137.4	125.5	113.5
80°	6.0	6.0	17.9	35.9	53.8	71.7	89.7	107.6	113.5	101.6	89.7
82.5°	6.0	6.0	17.9	35.9	53.8	65.8	95.6	107.6	119.6	107.6	89.7
85°	0.0	6.0	17.9	35.9	47.8	53.8	53.8	35.9	29.9	17.9	17.9
87.5°	0.0	0.0	6.0	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)