

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: P651602

Luminaire Tested: **GALN-SA9D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53124.3 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

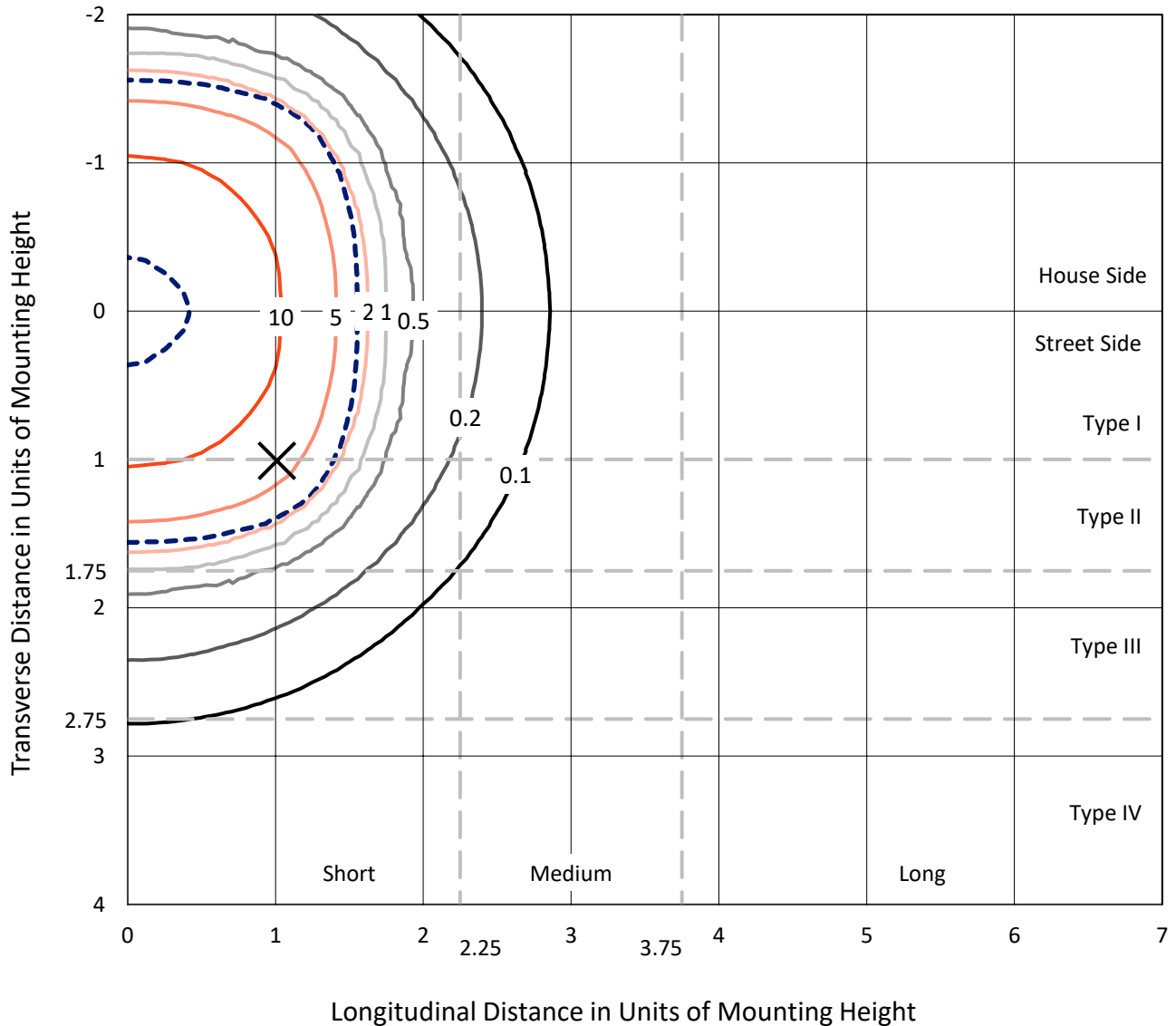
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

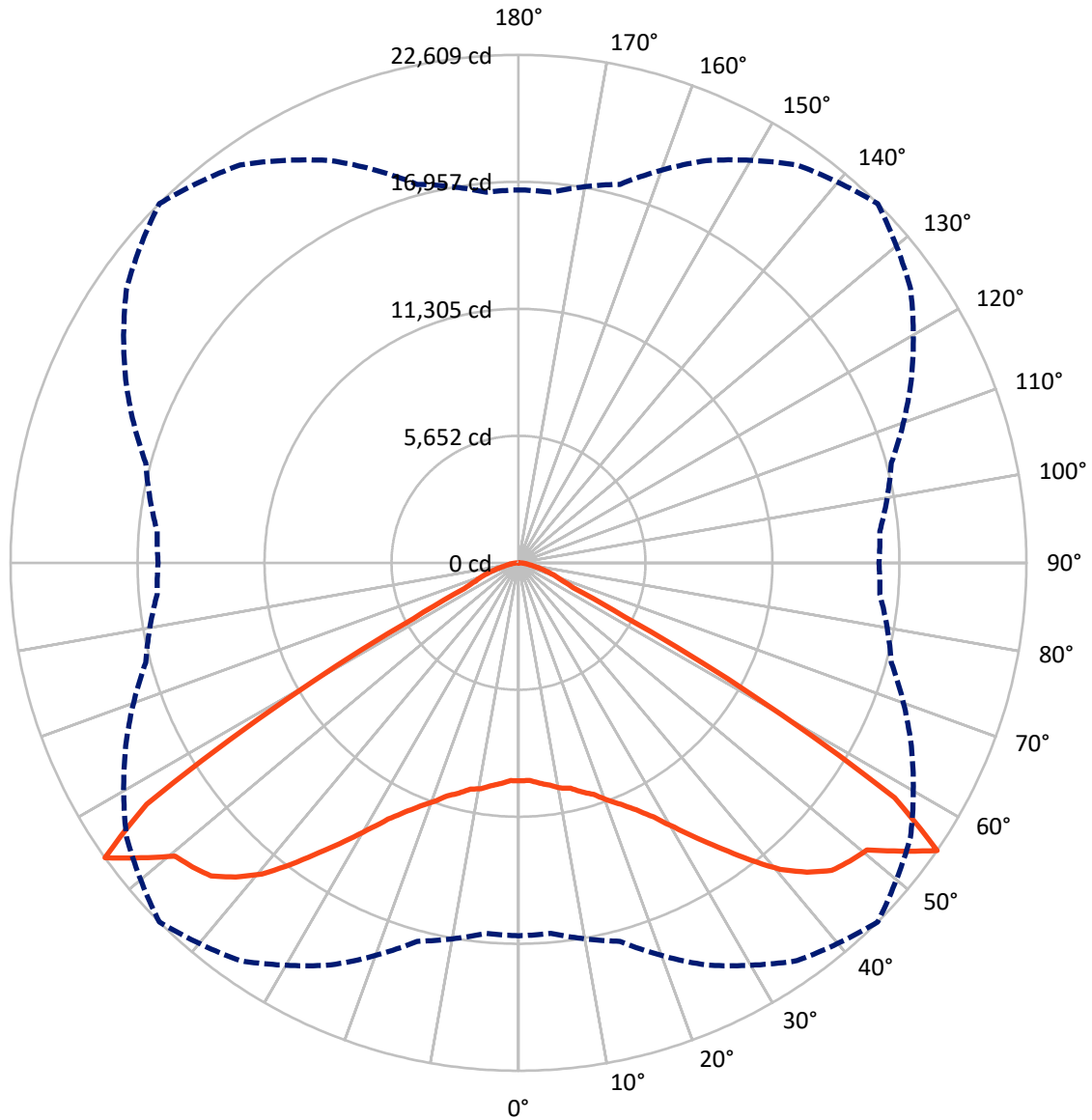
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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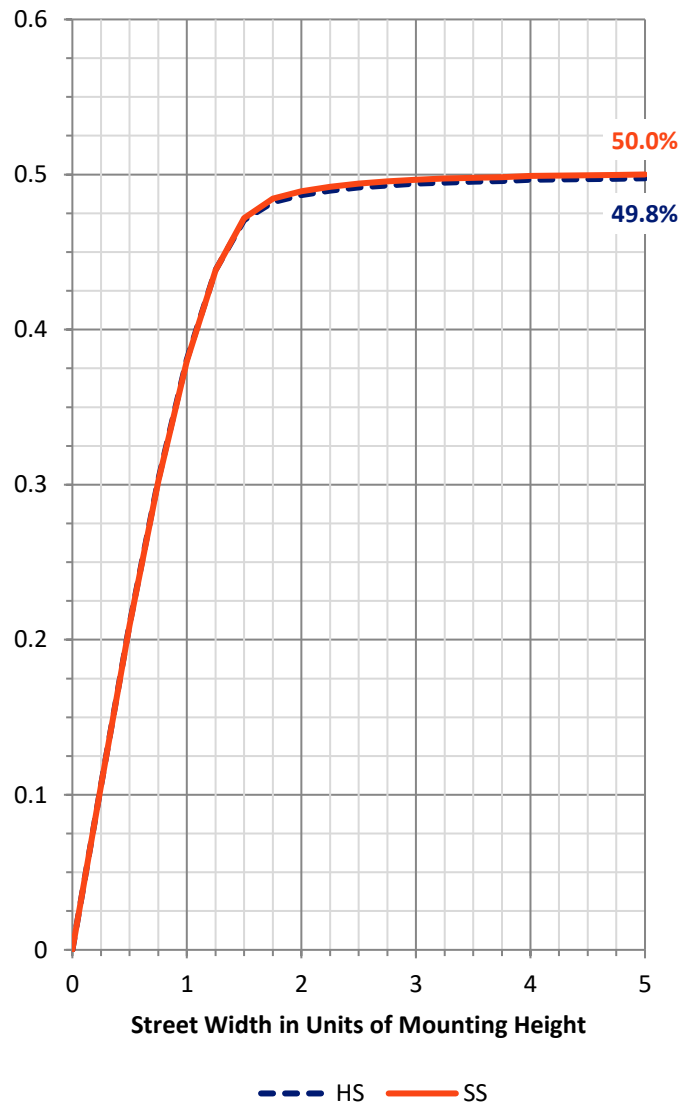
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26562.1	0.0	26562.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26562.1	0.0	26562.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53124.3	0.0	53124.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	947.6	1.8
10°-20°	3002.4	5.7
20°-30°	5598.5	10.5
30°-40°	9373.7	17.6
40°-50°	14586.2	27.5
50°-60°	15145.0	28.5
60°-70°	3211.8	6.0
70°-80°	1057.7	2.0
80°-90°	201.4	0.4
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°	53124.3	100.0
0°-180°	53124.3	100.0

**Coefficient of Utilization**

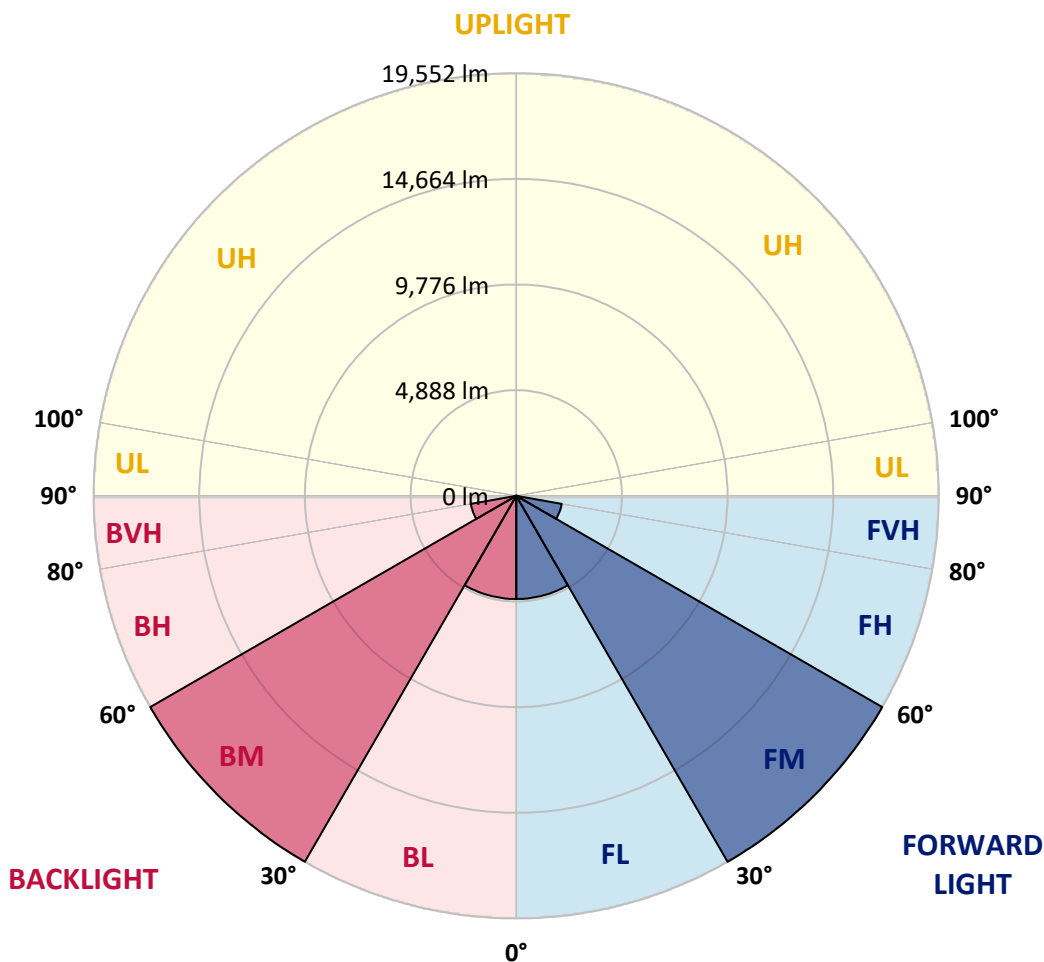


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4774.2	9.0			
FM (30°-60°)	19552.5	36.8			
FH (60°-80°)	2134.8	4.0			G2/5000
FVH (80°-90°)	100.7	0.2			G2/225
BL (0°-30°)	4774.2	9.0	B4/5000		
BM (30°-60°)	19552.5	36.8	B5		
BH (60°-80°)	2134.8	4.0	B3/2500		G2/5000
BVH (80°-90°)	100.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9699.7	9699.7	9699.7	9699.7	9699.7	9699.7	9699.7	9699.7	9699.7	9699.7	9699.7
2.5°	9815.2	9770.3	9693.3	9751.1	9796.0	9699.7	9738.2	9757.5	9744.7	9693.3	9712.5
5°	9956.5	9930.8	9866.6	9911.5	9853.7	9853.7	9815.2	9763.9	9841.0	9828.1	9860.2
7.5°	9956.5	9924.4	10052.8	9969.3	9995.0	9995.0	9930.8	9879.5	9918.0	9860.2	9828.1
10°	10155.5	10200.4	10142.6	10161.9	10149.0	10194.0	10097.7	10065.6	10033.6	10014.3	9975.8
12.5°	10393.0	10360.9	10380.1	10367.3	10412.3	10296.7	10238.9	10168.3	10226.1	10142.6	10200.4
15°	10585.6	10566.3	10585.6	10637.0	10592.0	10585.6	10482.9	10412.3	10322.3	10341.6	10251.8
17.5°	10848.8	10829.6	10835.9	10880.9	10874.5	10842.3	10765.3	10630.5	10598.5	10547.1	10489.3
20°	11240.4	11208.3	11195.4	11214.7	11246.8	11272.4	11118.4	11067.1	10957.9	10874.5	10778.2
22.5°	11574.2	11561.3	11612.7	11529.3	11599.8	11676.9	11529.3	11503.5	11233.9	11189.0	11086.3
25°	12036.4	12017.1	11985.0	12107.0	12190.5	12184.0	12042.8	11901.6	11696.1	11644.7	11644.7
27.5°	12524.3	12415.1	12582.0	12614.1	12761.8	12806.7	12684.7	12479.3	12286.8	12177.6	12203.2
30°	13134.1	13031.4	13069.9	13301.0	13493.6	13660.4	13352.3	13050.6	12781.0	12588.4	12556.3
32.5°	13744.0	13641.2	13756.7	13981.5	14366.6	14616.9	14315.2	13788.9	13474.3	13191.8	13249.6
35°	14238.2	14315.2	14501.4	14841.6	15239.7	15644.0	15162.6	14758.2	14308.9	13994.2	14039.2
37.5°	15034.2	15271.7	15419.4	15811.0	16375.9	16793.2	16292.4	15766.1	15284.6	14873.8	14732.5
40°	16074.2	16234.7	16401.5	16863.7	17531.4	17948.6	17473.6	16786.7	16311.7	15888.0	15868.7
42.5°	17216.8	17370.9	17544.2	18109.1	18507.1	18821.7	18385.1	18019.3	17492.9	17159.0	17139.7
45°	18545.6	18436.5	18629.1	19001.4	19335.2	19540.6	19258.1	19078.4	18699.7	18391.6	18359.5
47.5°	19431.5	19335.2	19681.8	20015.6	20067.0	19842.3	19900.1	20067.0	19669.1	19161.8	19322.4
50°	19945.1	19945.1	20176.2	20484.3	20388.0	20099.1	20554.9	20567.7	20169.7	19720.4	19720.4
52.5°	19052.8	19251.8	19906.6	20914.4	21235.3	21318.8	21216.1	20779.6	19739.6	18821.7	18776.8
55°	16600.6	16555.6	17441.5	19752.5	21620.5	22609.1	21299.6	19290.3	17178.3	16144.8	16042.1
57.5°	10797.4	10848.8	12171.2	14527.1	17897.2	19739.6	17531.4	14706.8	12171.2	10746.0	10880.9
60°	4859.5	5032.8	5835.2	7594.1	10489.3	11991.4	10514.9	7979.3	6124.1	5315.3	5385.8
62.5°	2792.5	2824.5	2856.6	3389.4	4467.9	5283.2	4641.2	3582.0	3158.4	3017.1	3017.1
65°	2355.9	2336.6	2343.1	2388.0	2503.6	2670.4	2599.9	2503.6	2516.4	2503.6	2484.3
67.5°	2002.8	2028.5	2009.2	2041.4	2047.8	2073.5	2118.4	2156.9	2163.3	2176.2	2163.3
70°	1643.4	1649.8	1662.7	1688.3	1694.7	1714.0	1778.2	1810.3	1829.5	1829.5	1855.2
72.5°	1258.2	1251.7	1264.6	1290.3	1322.4	1328.8	1386.6	1431.6	1457.2	1425.1	1431.6
75°	828.1	834.5	853.8	873.0	918.0	962.9	982.2	1027.1	1033.5	1046.4	1014.2
77.5°	494.3	507.1	526.4	564.9	603.4	641.9	686.8	719.0	731.8	719.0	680.5
80°	321.0	321.0	346.7	378.7	423.7	455.7	481.5	507.1	526.4	507.1	494.3
82.5°	199.0	199.0	231.1	269.6	301.8	321.0	359.5	391.6	410.8	398.0	378.7
85°	102.7	109.2	134.8	166.9	192.6	205.5	199.0	179.7	160.5	154.1	141.2
87.5°	32.1	32.1	38.5	38.5	32.1	32.1	38.5	32.1	38.5	38.5	38.5
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)