

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: P650890

Luminaire Tested: **GALN-SA5C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650890
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-SA5C-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 25120.7 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

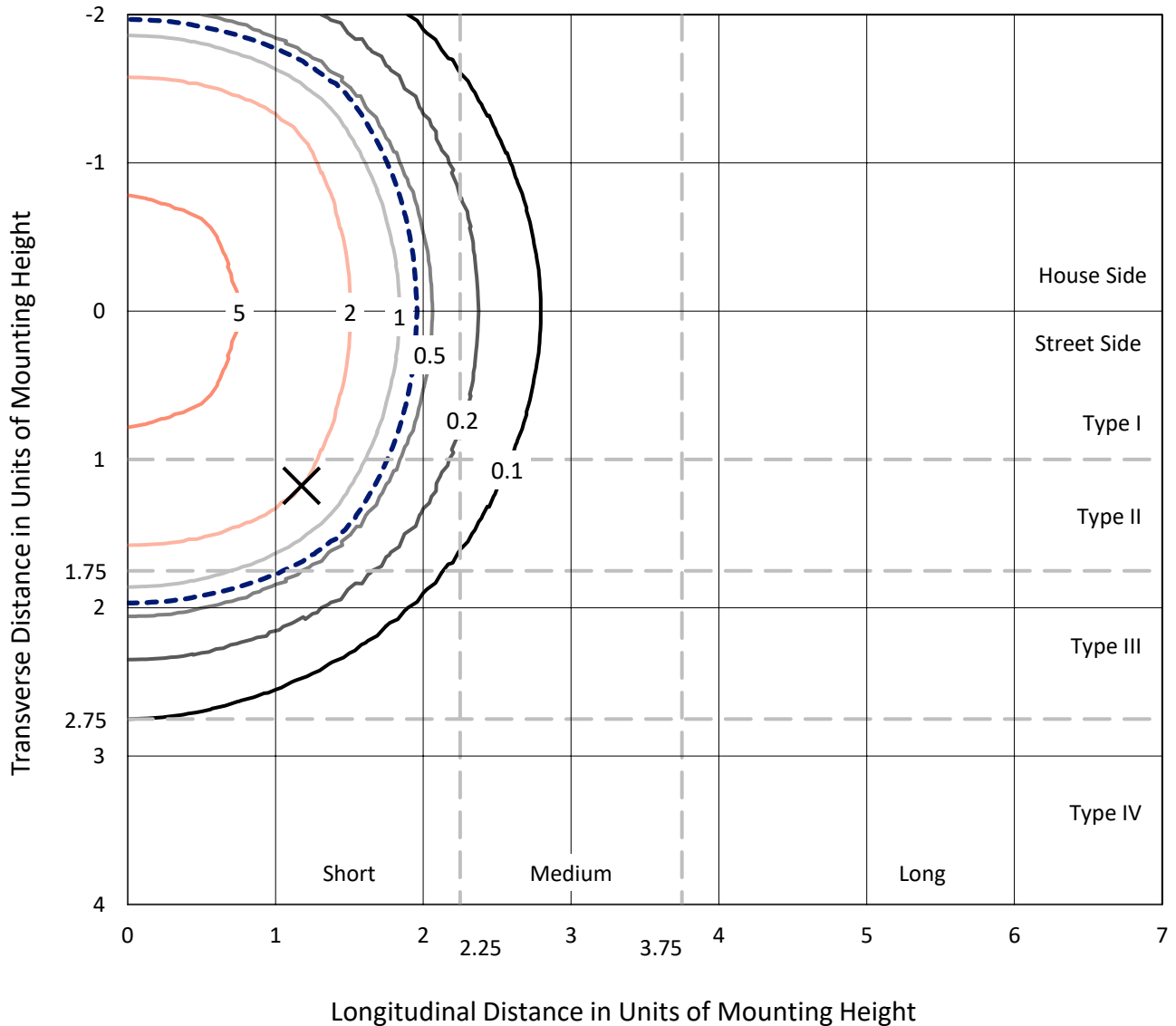
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

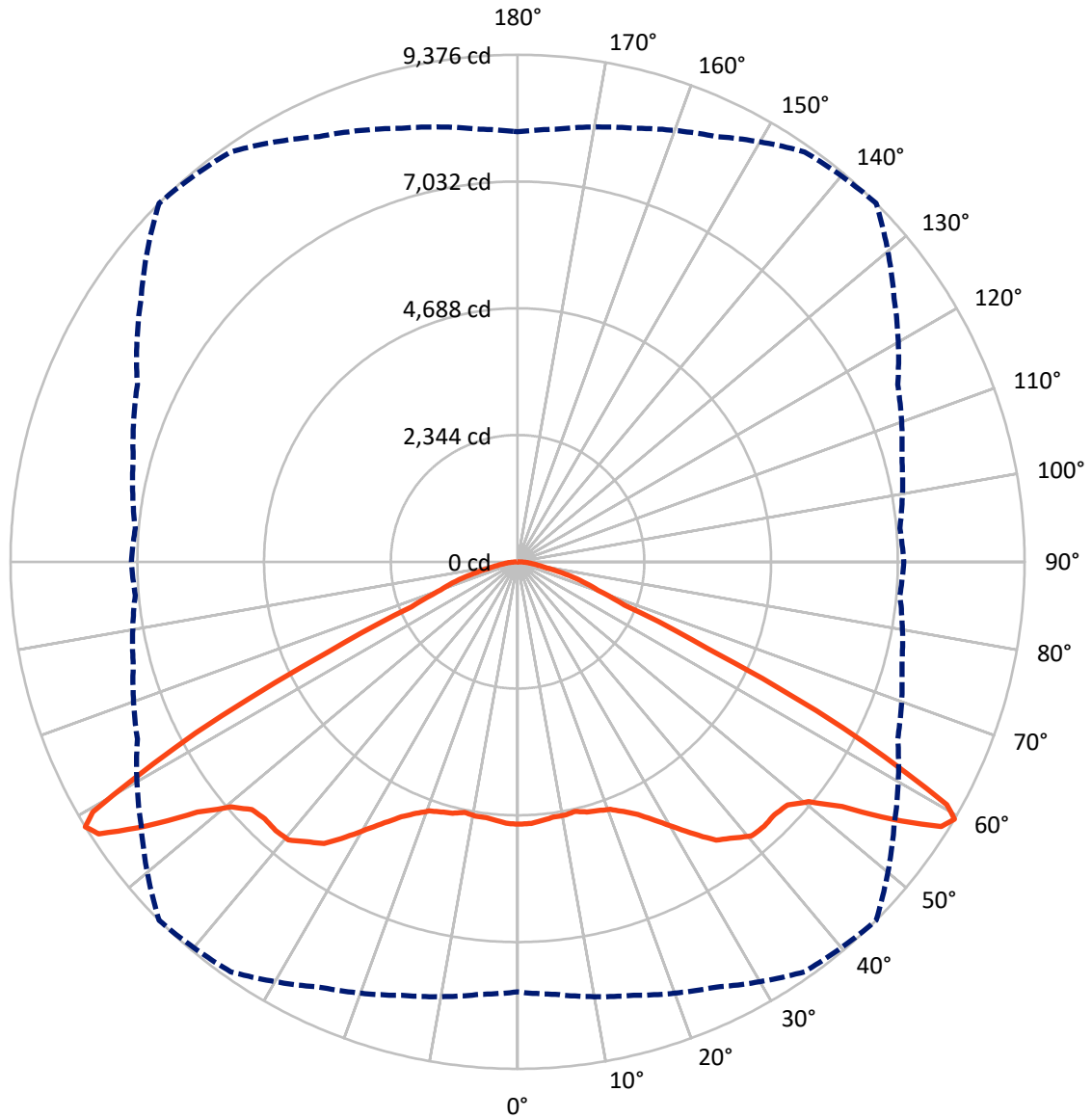
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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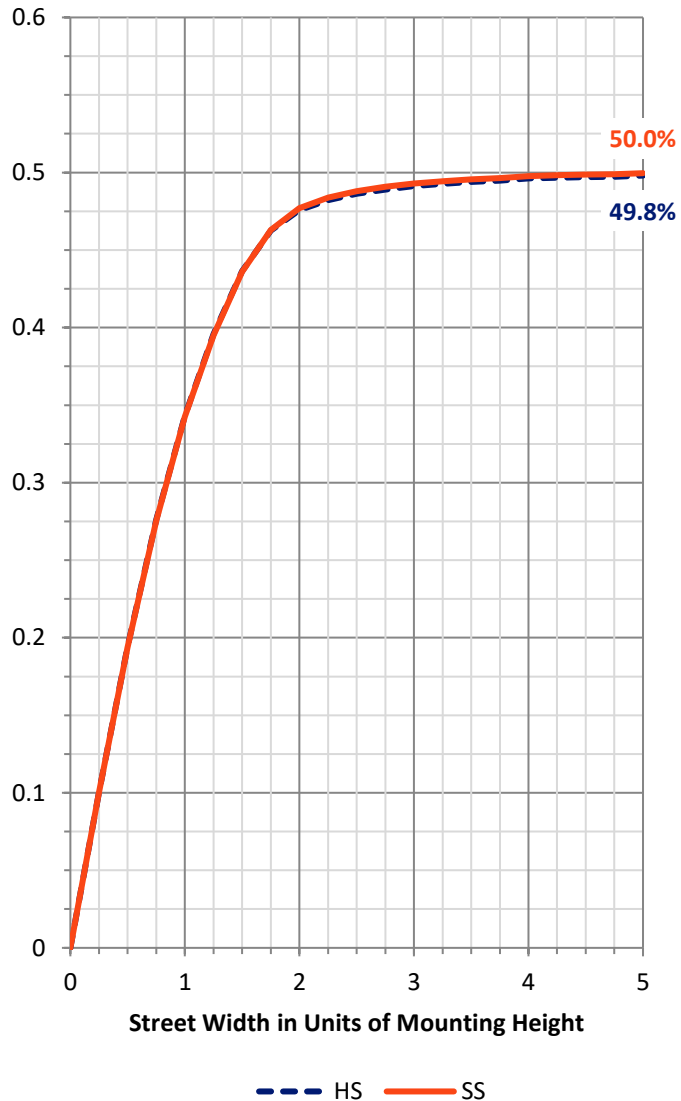
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12560.3	0.0	12560.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12560.3	0.0	12560.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	25120.7	0.0	25120.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.4	1.8
10°-20°	1360.2	5.4
20°-30°	2375.1	9.5
30°-40°	3793.4	15.1
40°-50°	5167.3	20.6
50°-60°	6987.6	27.8
60°-70°	3832.0	15.3
70°-80°	980.3	3.9
80°-90°	167.2	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°	25120.7	100.0
0°-180°	25120.7	100.0

Coefficient of Utilization



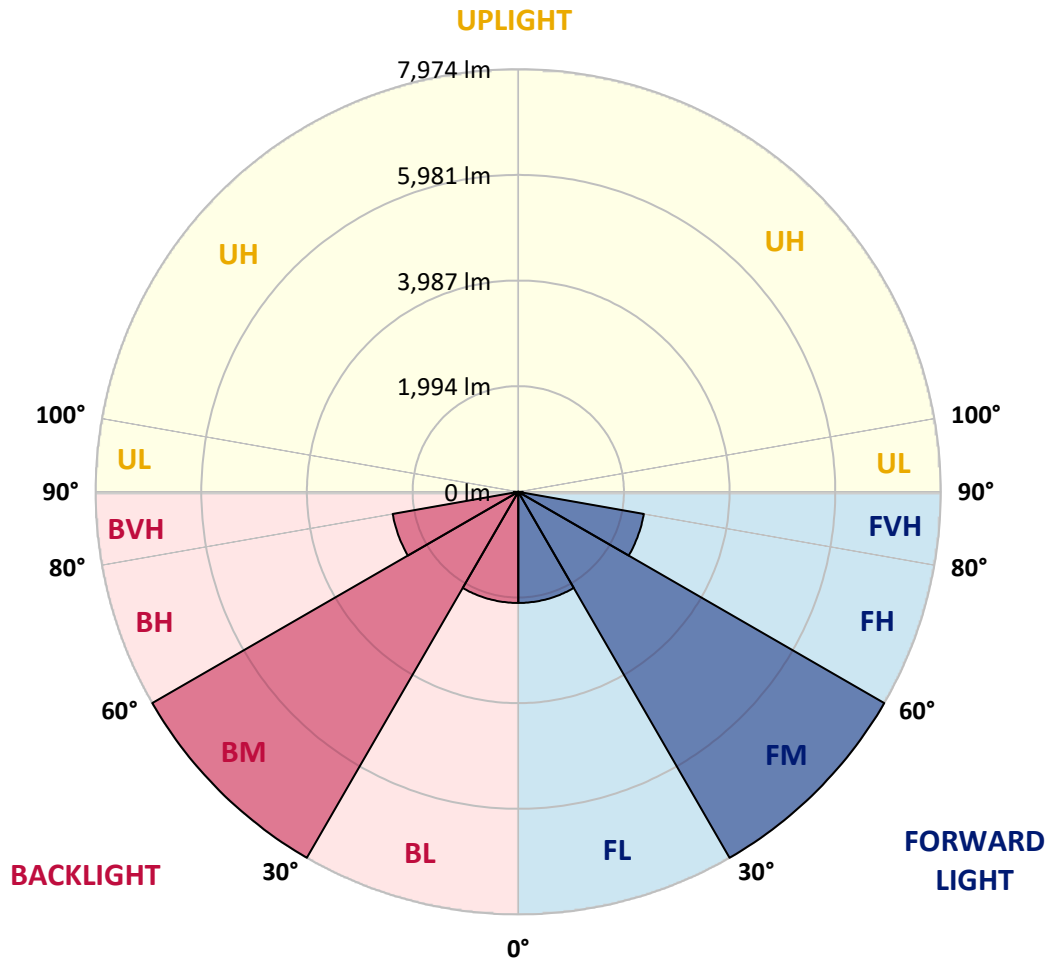
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.4	8.3			
FM (30°-60°)	7974.2	31.7			
FH (60°-80°)	2406.2	9.6			G2/5000
FVH (80°-90°)	83.6	0.3			G1/100
BL (0°-30°)	2096.4	8.3	B3/2500		
BM (30°-60°)	7974.2	31.7	B4/8500		
BH (60°-80°)	2406.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	83.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1
2.5°	4823.1	4858.5	4832.8	4855.3	4852.1	4842.5	4826.3	4816.7	4803.8	4823.1	4790.9
5°	4803.8	4832.8	4861.7	4823.1	4823.1	4803.8	4794.1	4774.9	4774.9	4771.6	4768.4
7.5°	4836.0	4807.1	4794.1	4800.6	4807.1	4765.2	4794.1	4755.5	4723.3	4745.8	4771.6
10°	4807.1	4819.9	4771.6	4794.1	4758.7	4765.2	4745.8	4771.6	4736.2	4736.2	4736.2
12.5°	4836.0	4800.6	4816.7	4800.6	4790.9	4736.2	4762.0	4733.0	4729.8	4762.0	4733.0
15°	4893.9	4836.0	4823.1	4790.9	4800.6	4800.6	4774.9	4778.1	4742.7	4762.0	4768.4
17.5°	4874.7	4842.5	4832.8	4794.1	4826.3	4836.0	4787.7	4755.5	4778.1	4774.9	4771.6
20°	4890.8	4903.6	4893.9	4900.4	4913.3	4887.6	4842.5	4797.4	4768.4	4810.3	4807.1
22.5°	4993.8	4980.9	4974.4	4968.0	4990.6	5016.3	4955.2	4884.3	4884.3	4913.3	4926.2
25°	5077.5	5074.3	5071.1	5100.0	5177.3	5177.3	5100.0	5009.8	4987.3	5006.6	4990.6
27.5°	5199.8	5235.2	5222.4	5273.9	5386.6	5412.3	5309.3	5203.1	5141.9	5119.3	5148.3
30°	5480.0	5438.1	5447.7	5502.5	5602.3	5686.0	5528.2	5415.5	5331.9	5328.7	5341.5
32.5°	5666.7	5698.9	5727.9	5779.4	5937.1	6001.5	5811.6	5628.1	5576.6	5547.6	5557.2
35°	6040.1	6011.2	6004.7	6056.3	6214.1	6320.3	6082.0	5921.1	5853.4	5917.9	5917.9
37.5°	6394.4	6313.9	6252.7	6320.3	6465.2	6478.1	6275.2	6188.3	6152.8	6226.9	6223.7
40°	6561.8	6555.3	6413.6	6452.3	6645.5	6664.8	6474.9	6371.8	6365.4	6462.0	6558.5
42.5°	6735.7	6674.5	6532.8	6558.5	6677.7	6684.1	6503.8	6474.9	6545.7	6639.0	6645.5
45°	6764.6	6713.1	6623.0	6558.5	6645.5	6664.8	6558.5	6577.9	6584.4	6697.1	6697.1
47.5°	6822.6	6816.1	6764.6	6716.3	6732.5	6716.3	6648.7	6677.7	6774.3	6829.0	6803.3
50°	6983.6	6916.0	6967.4	6925.6	6928.8	6973.9	6912.8	6941.7	6922.4	6874.1	6841.9
52.5°	7337.7	7305.5	7350.6	7379.6	7411.8	7514.8	7443.9	7289.5	7144.5	7015.8	7012.5
55°	7856.1	7878.7	7965.6	8113.7	8239.3	8403.4	8062.2	7691.9	7460.1	7257.2	7270.1
57.5°	8345.5	8329.4	8448.5	8786.6	9153.6	9237.4	8567.7	8039.6	7662.9	7534.1	7479.4
59°	7952.7	8030.0	8300.4	8677.1	9253.4	9375.8	8500.1	7756.3	7357.1	7096.3	7141.4
60°	7334.5	7363.5	7605.0	8129.8	8909.0	9118.2	8046.1	7318.4	6787.1	6635.8	6703.4
62.5°	5183.8	5161.2	5335.1	5763.3	6462.0	6745.3	5982.2	5470.3	5135.5	4968.0	5006.6
65°	2756.0	2859.1	2930.0	3197.1	3567.4	3866.9	3551.4	3329.2	3142.5	3004.0	3000.8
67.5°	1861.0	1848.1	1864.2	1925.4	2050.9	2134.7	2128.2	2015.5	1999.5	1973.7	2002.7
70°	1568.0	1561.6	1532.6	1532.6	1558.4	1577.6	1600.2	1613.0	1638.9	1671.1	1667.8
72.5°	1271.8	1255.7	1236.4	1226.7	1258.9	1268.6	1297.6	1310.4	1333.0	1329.7	1358.7
75°	840.3	840.3	862.9	888.6	898.3	917.6	920.8	959.5	959.5	965.9	940.2
77.5°	470.1	457.2	473.3	499.0	521.6	557.0	592.4	621.4	637.5	631.1	631.1
80°	273.7	273.7	289.8	318.7	347.8	380.0	405.7	428.2	444.3	437.9	425.0
82.5°	170.6	170.6	186.7	215.7	238.3	257.6	293.0	321.9	341.3	334.9	318.7
85°	87.0	87.0	106.2	125.6	154.6	167.4	164.2	151.3	148.1	132.0	132.0
87.5°	22.5	22.5	32.2	35.4	29.0	32.2	32.2	32.2	32.2	32.2	35.4
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)