

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: P651330

Luminaire Tested: **GALN-SA4D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651330
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-SA4D-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA 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: 21834.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

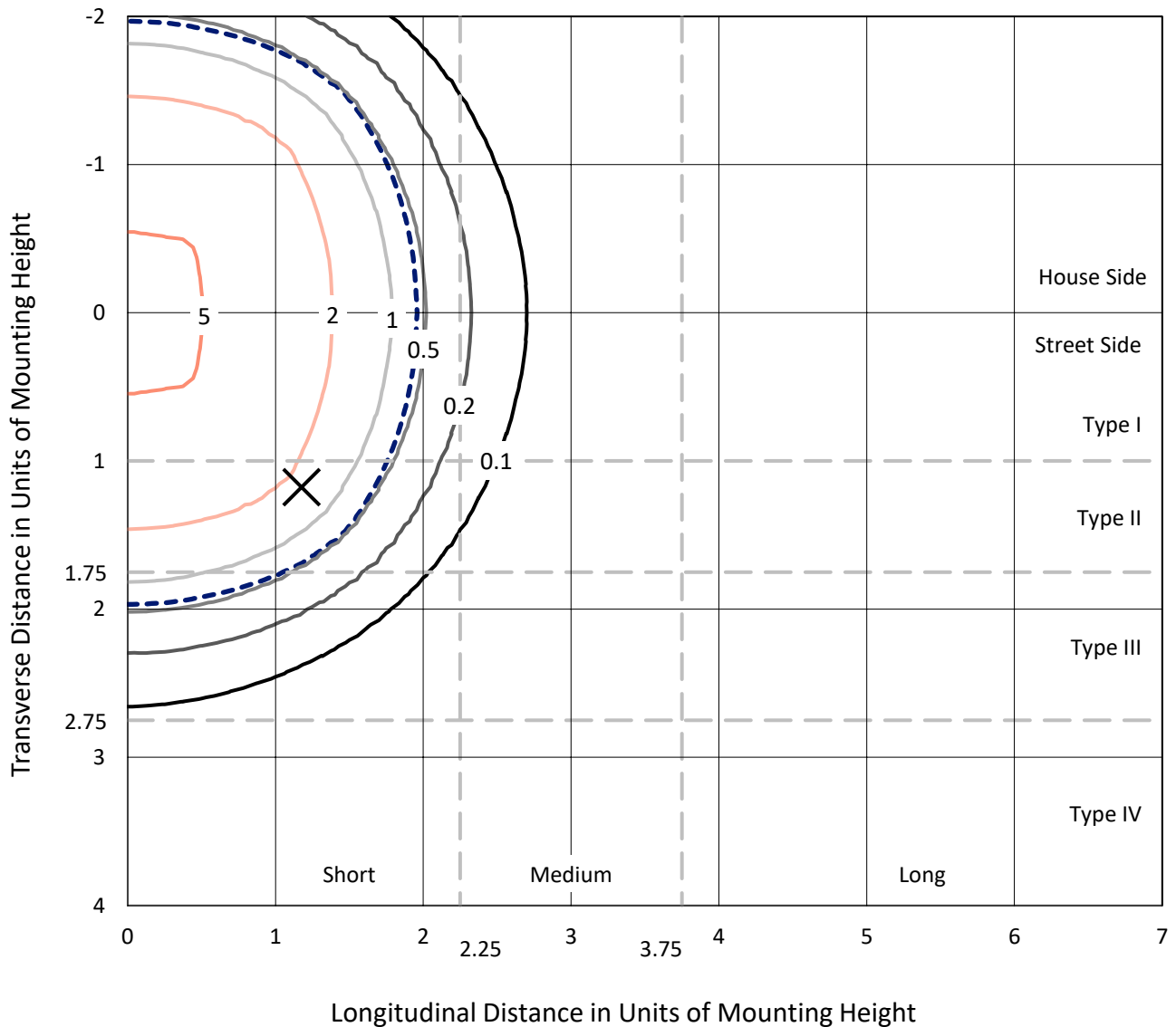
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

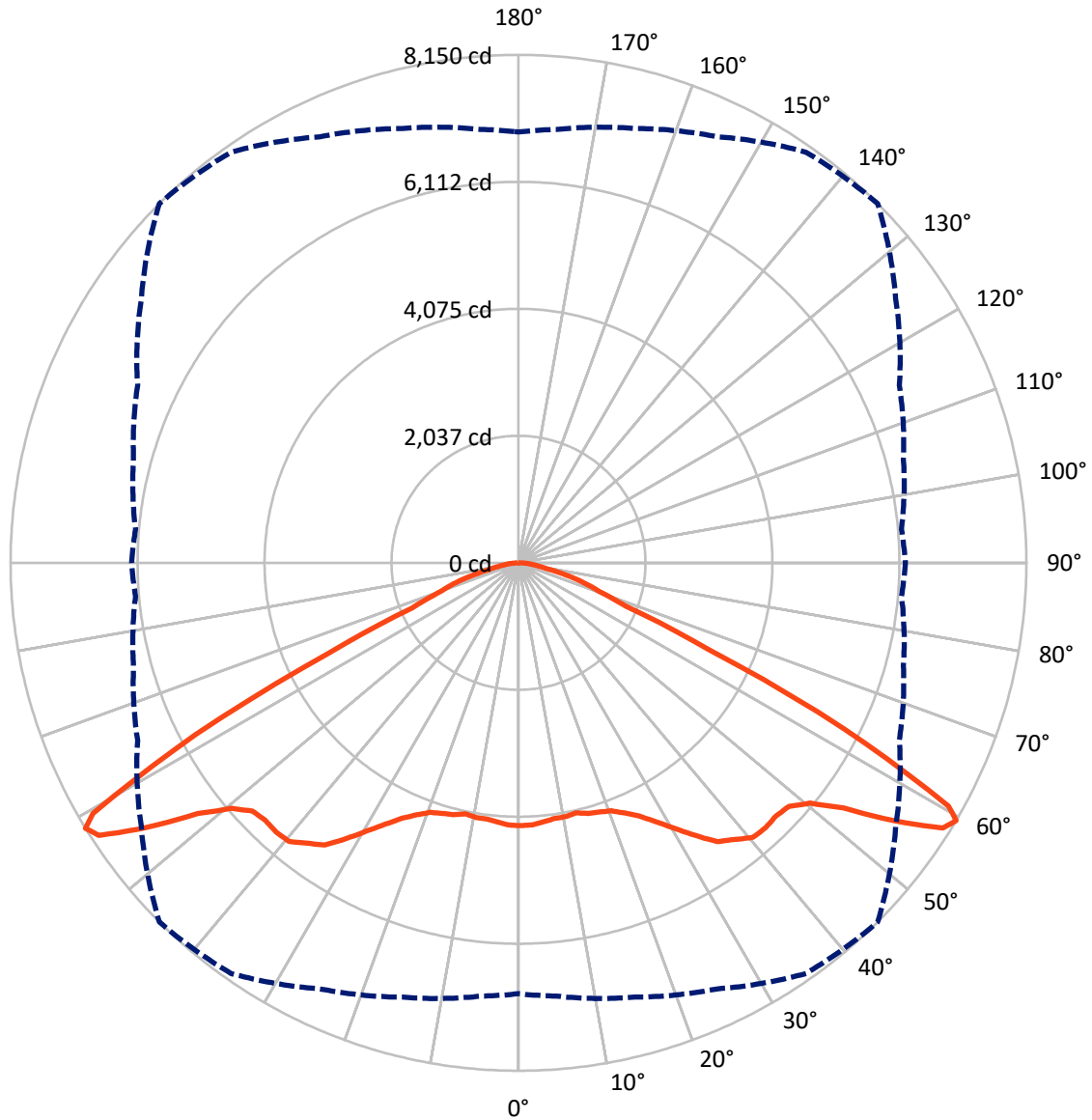
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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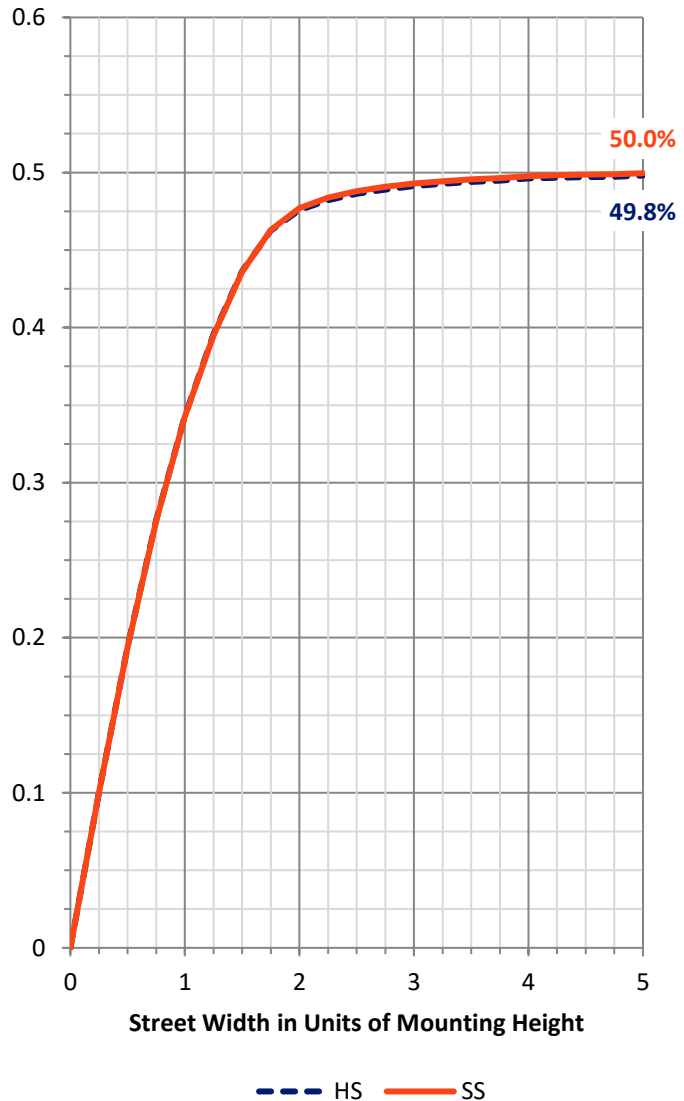
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10917.4	0.0	10917.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10917.4	0.0	10917.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	21834.9	0.0	21834.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.6	1.8
10°-20°	1182.3	5.4
20°-30°	2064.4	9.5
30°-40°	3297.2	15.1
40°-50°	4491.5	20.6
50°-60°	6073.6	27.8
60°-70°	3330.8	15.3
70°-80°	852.1	3.9
80°-90°	145.3	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°	21834.9	100.0
0°-180°	21834.9	100.0

Coefficient of Utilization



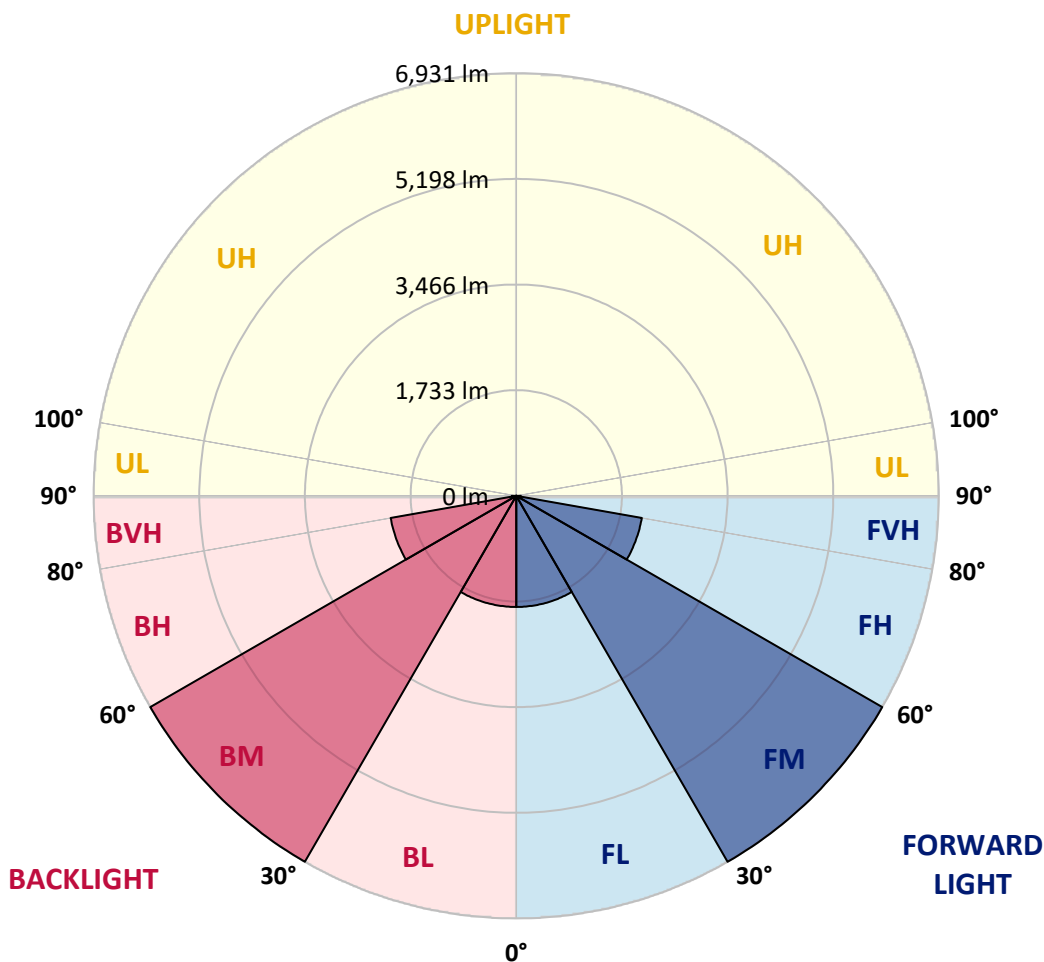
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.2	8.3			
FM (30°-60°)	6931.2	31.7			
FH (60°-80°)	2091.5	9.6			G2/5000
FVH (80°-90°)	72.7	0.3			G1/100
BL (0°-30°)	1822.2	8.3	B3/2500		
BM (30°-60°)	6931.2	31.7	B4/8500		
BH (60°-80°)	2091.5	9.6	B3/2500		G2/5000
BVH (80°-90°)	72.7	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°	4217.4	4217.4	4217.4	4217.4	4217.4	4217.4	4217.4	4217.4	4217.4	4217.4	4217.4
2.5°	4192.3	4223.1	4200.6	4220.2	4217.4	4209.0	4195.1	4186.7	4175.5	4192.3	4164.3
5°	4175.5	4200.6	4225.9	4192.3	4192.3	4175.5	4167.1	4150.3	4150.3	4147.5	4144.7
7.5°	4203.5	4178.3	4167.1	4172.7	4178.3	4141.9	4167.1	4133.5	4105.5	4125.1	4147.5
10°	4178.3	4189.4	4147.5	4167.1	4136.3	4141.9	4125.1	4147.5	4116.7	4116.7	4116.7
12.5°	4203.5	4172.7	4186.7	4172.7	4164.3	4116.7	4139.1	4113.9	4111.1	4139.1	4113.9
15°	4253.9	4203.5	4192.3	4164.3	4172.7	4172.7	4150.3	4153.1	4122.3	4139.1	4144.7
17.5°	4237.0	4209.0	4200.6	4167.1	4195.1	4203.5	4161.5	4133.5	4153.1	4150.3	4147.5
20°	4251.0	4262.3	4253.9	4259.4	4270.6	4248.2	4209.0	4169.8	4144.7	4181.1	4178.3
22.5°	4340.6	4329.4	4323.8	4318.2	4337.8	4360.2	4307.0	4245.5	4245.5	4270.6	4281.8
25°	4413.3	4410.5	4407.8	4432.9	4500.1	4500.1	4432.9	4354.6	4335.0	4351.8	4337.8
27.5°	4519.7	4550.5	4539.3	4584.0	4682.0	4704.4	4614.8	4522.5	4469.3	4449.7	4475.0
30°	4763.2	4726.8	4735.2	4782.8	4869.6	4942.3	4805.1	4707.2	4634.4	4631.6	4642.8
32.5°	4925.5	4953.5	4978.6	5023.5	5160.5	5216.6	5051.5	4891.9	4847.1	4822.0	4830.4
35°	5250.1	5225.0	5219.3	5264.2	5401.2	5493.6	5286.5	5146.6	5087.8	5143.8	5143.8
37.5°	5558.0	5488.0	5434.8	5493.6	5619.6	5630.7	5454.4	5378.9	5348.1	5412.4	5409.6
40°	5703.5	5697.9	5574.7	5608.4	5776.2	5793.1	5628.0	5538.4	5532.8	5616.7	5700.7
42.5°	5854.6	5801.5	5678.3	5700.7	5804.2	5809.9	5653.1	5628.0	5689.5	5770.7	5776.2
45°	5879.9	5835.0	5756.6	5700.7	5776.2	5793.1	5700.7	5717.5	5723.1	5821.1	5821.1
47.5°	5930.1	5924.6	5879.9	5837.8	5851.8	5837.8	5779.1	5804.2	5888.2	5935.8	5913.4
50°	6070.1	6011.4	6056.1	6019.7	6022.6	6061.7	6008.5	6033.8	6016.9	5975.0	5947.0
52.5°	6378.0	6350.0	6389.2	6414.3	6442.3	6531.9	6470.3	6336.0	6210.0	6098.1	6095.3
55°	6828.5	6848.1	6923.7	7052.4	7161.5	7304.3	7007.6	6685.8	6484.3	6308.0	6319.2
57.5°	7253.9	7239.9	7343.4	7637.3	7956.4	8029.1	7447.0	6988.0	6660.6	6548.7	6501.1
59°	6912.5	6979.6	7214.8	7542.2	8043.1	8149.5	7388.3	6741.8	6394.7	6168.1	6207.3
60°	6375.1	6400.3	6610.3	7066.4	7743.7	7925.6	6993.7	6361.2	5899.4	5767.8	5826.6
62.5°	4505.7	4486.1	4637.3	5009.4	5616.7	5863.0	5199.7	4754.8	4463.7	4318.2	4351.8
65°	2395.6	2485.2	2546.7	2779.0	3100.9	3361.1	3086.8	2893.7	2731.4	2611.1	2608.3
67.5°	1617.6	1606.4	1620.4	1673.6	1782.7	1855.5	1849.9	1751.9	1737.9	1715.6	1740.7
70°	1362.9	1357.3	1332.1	1332.1	1354.5	1371.3	1390.9	1402.1	1424.5	1452.5	1449.6
72.5°	1105.4	1091.4	1074.6	1066.2	1094.2	1102.6	1127.9	1139.1	1158.6	1155.8	1181.0
75°	730.4	730.4	750.0	772.4	780.8	797.6	800.4	833.9	833.9	839.6	817.2
77.5°	408.6	397.4	411.4	433.8	453.4	484.2	514.9	540.1	554.1	548.5	548.5
80°	237.9	237.9	251.9	277.0	302.3	330.3	352.6	372.2	386.2	380.6	369.5
82.5°	148.4	148.4	162.3	187.5	207.1	223.9	254.7	279.9	296.6	291.1	277.0
85°	75.5	75.5	92.3	109.2	134.3	145.5	142.7	131.5	128.8	114.7	114.7
87.5°	19.6	19.6	28.0	30.8	25.1	28.0	28.0	28.0	28.0	28.0	30.8
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)