

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: P530329

Luminaire Tested: **GALN-SA5C-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530329
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-SA5C-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 24186 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

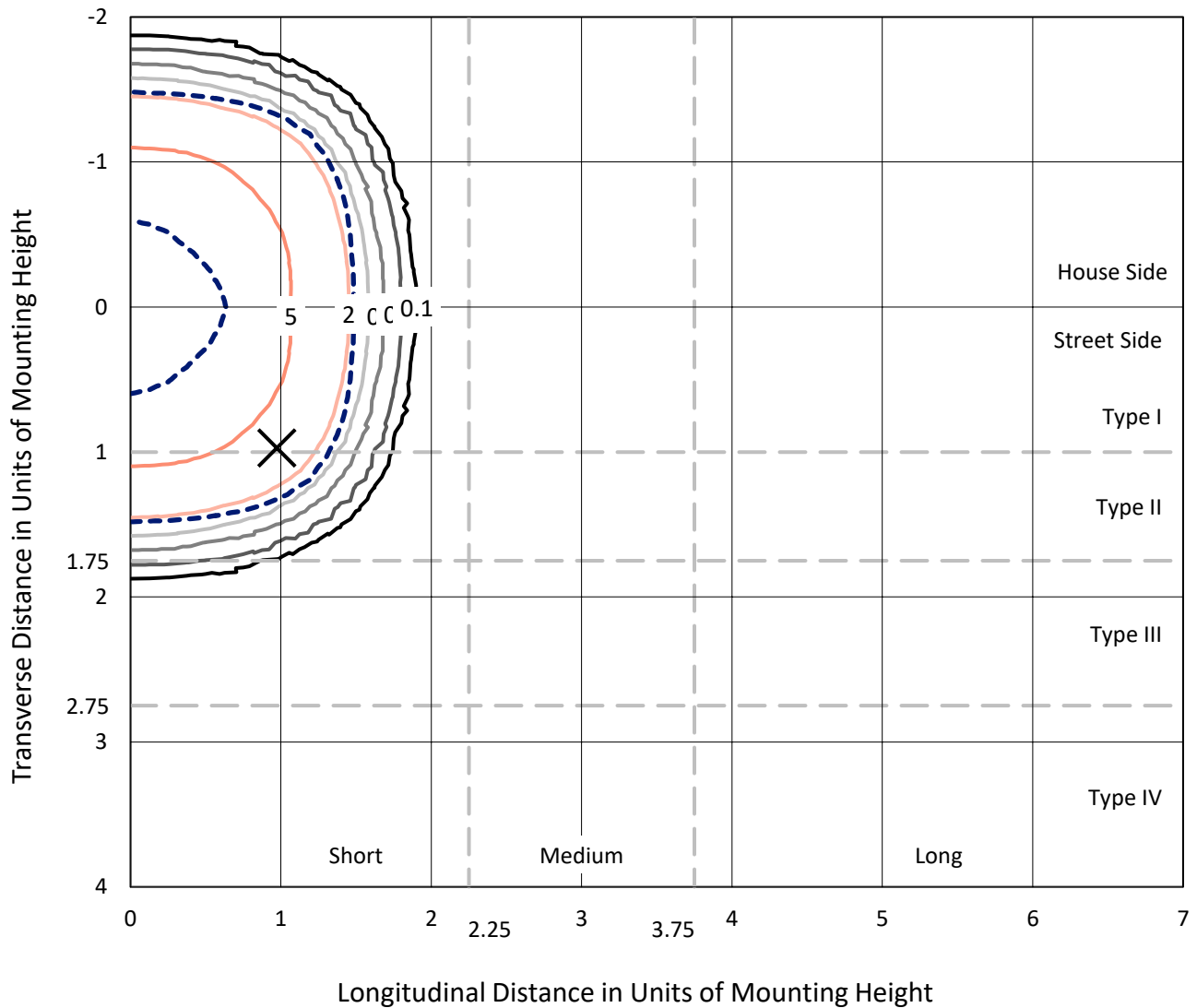
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530329
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Iso-Footcandle Lines of Horizontal Illumination

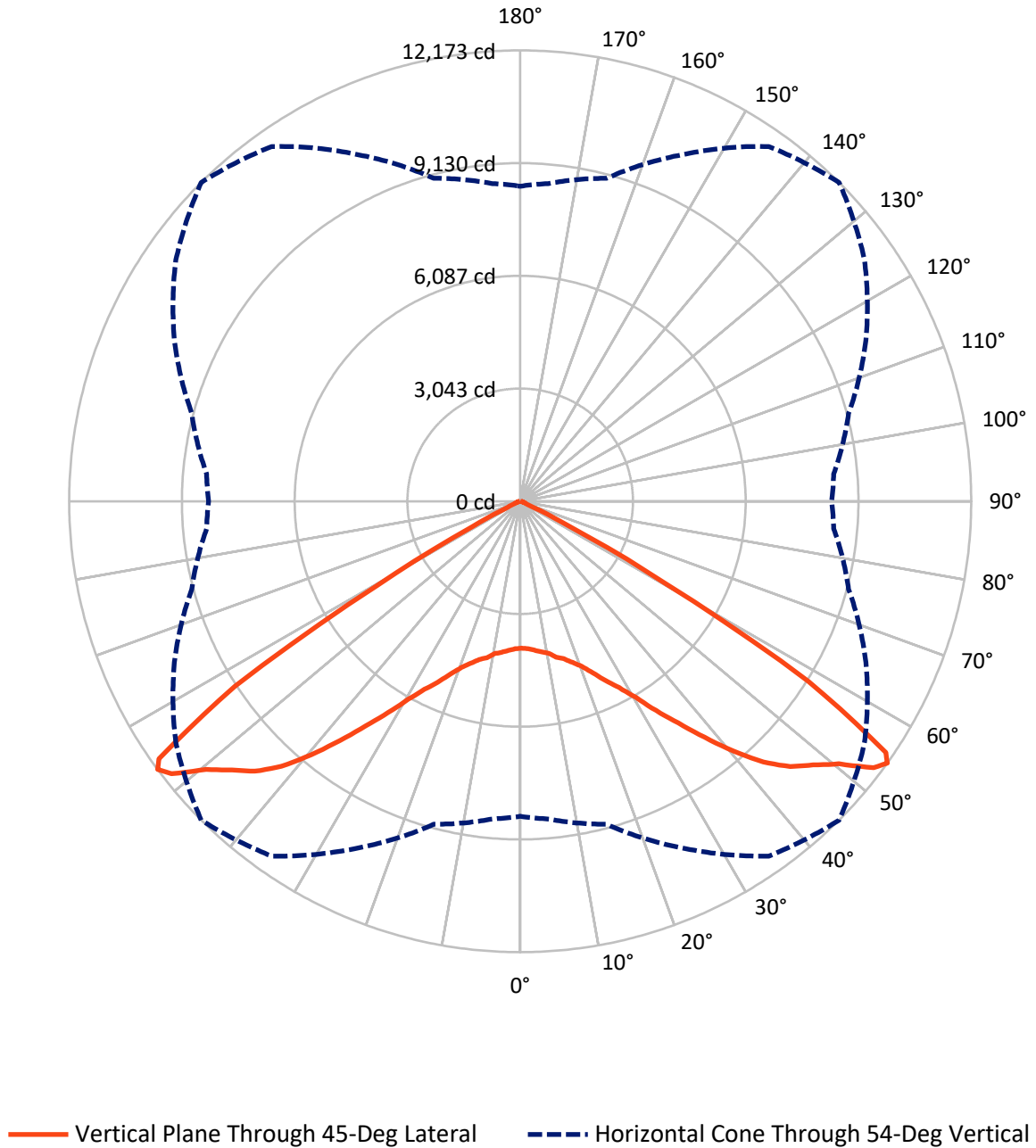
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

REPORT NUMBER: P530329
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12093.0	0.0	12093.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12093.0	0.0	12093.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24186.0	0.0	24186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.2	1.6
10°-20°	1257.0	5.2
20°-30°	2463.6	10.2
30°-40°	4430.1	18.3
40°-50°	7583.5	31.4
50°-60°	7337.7	30.3
60°-70°	628.1	2.6
70°-80°	74.4	0.3
80°-90°	23.4	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°	24186.0	100.0
0°-180°	24186.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530329

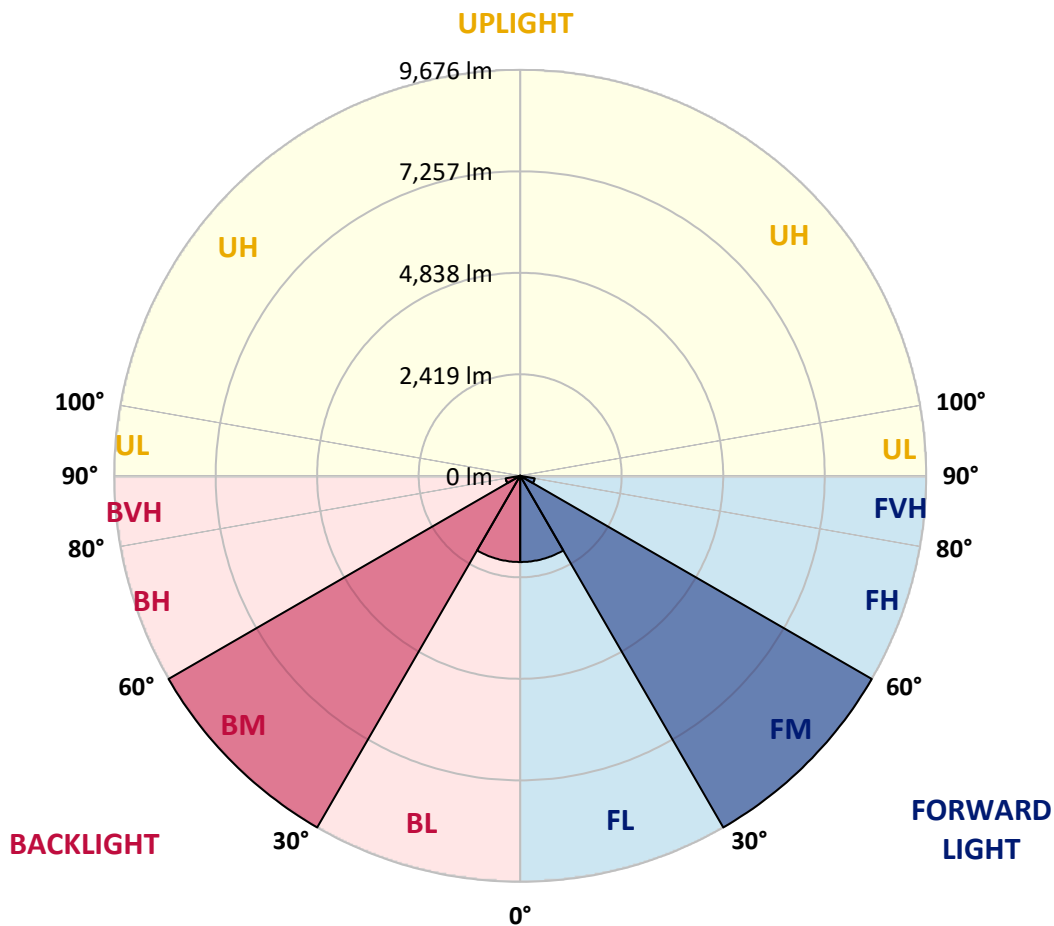
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.4	8.5			
FM (30°-60°)	9675.7	40.0			
FH (60°-80°)	351.3	1.5			G0/660
FVH (80°-90°)	11.7	0.0			G1/100
BL (0°-30°)	2054.4	8.5	B3/2500		
BM (30°-60°)	9675.7	40.0	B5		
BH (60°-80°)	351.3	1.5	B1/500		G0/660
BVH (80°-90°)	11.7	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°	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8
2.5°	3984.9	4007.9	3992.6	4004.1	4004.1	3984.9	3996.4	3950.4	3981.1	3958.1	3961.9
5°	4046.2	4042.4	4042.4	4046.2	4030.9	4038.6	4023.2	4007.9	3996.4	3981.1	4027.1
7.5°	4122.8	4122.8	4096.0	4103.7	4096.0	4107.5	4076.9	4046.2	4034.7	4023.2	4015.6
10°	4195.6	4188.0	4176.5	4211.0	4184.2	4168.8	4153.5	4134.3	4092.2	4076.9	4061.5
12.5°	4302.9	4299.1	4283.8	4318.3	4302.9	4318.3	4260.8	4211.0	4203.3	4153.5	4180.3
15°	4429.4	4463.9	4437.0	4437.0	4429.4	4410.2	4387.2	4364.2	4295.3	4276.1	4279.9
17.5°	4594.1	4582.6	4586.5	4586.5	4624.8	4575.0	4529.0	4471.5	4437.0	4425.5	4387.2
20°	4751.2	4766.6	4762.7	4789.6	4812.5	4758.9	4709.1	4701.4	4605.6	4621.0	4567.3
22.5°	5027.1	5015.6	5034.8	5053.9	5038.6	5030.9	4985.0	4927.5	4843.2	4804.9	4797.2
25°	5318.3	5299.2	5264.7	5310.7	5333.6	5368.1	5280.0	5249.4	5119.1	5061.6	5065.4
27.5°	5567.4	5594.2	5632.5	5651.7	5709.1	5697.7	5636.3	5536.7	5437.1	5372.0	5329.8
30°	5908.4	5923.7	5988.9	6015.7	6115.3	6142.1	6046.3	5931.4	5755.1	5670.8	5621.0
32.5°	6222.6	6329.9	6326.0	6460.2	6621.1	6732.2	6559.8	6383.5	6207.3	6107.6	6019.5
35°	6732.2	6713.0	6824.2	6965.9	7226.5	7352.9	7165.2	6962.1	6693.9	6533.0	6464.0
37.5°	7207.3	7215.0	7364.4	7590.5	7889.4	8084.8	7920.0	7586.7	7310.8	7103.9	7008.1
40°	7897.0	7912.3	8065.6	8322.3	8659.5	8870.3	8678.7	8341.5	7973.6	7812.7	7812.7
42.5°	8705.5	8770.6	8870.3	9092.5	9395.2	9628.9	9456.5	9192.1	8820.4	8613.5	8644.2
45°	9537.0	9567.6	9632.8	9962.3	10104.0	10219.0	10058.1	9935.5	9686.4	9433.5	9391.4
47.5°	10314.8	10326.3	10517.9	10621.3	10732.4	10636.6	10740.1	10579.2	10299.5	10054.2	10004.4
50°	10659.6	10640.5	10912.5	11226.7	11311.0	11142.4	11054.3	10947.0	10521.7	10226.7	10096.4
52.5°	9655.7	9766.9	10272.6	11146.2	11805.3	11947.1	11433.6	10939.3	10146.2	9571.4	9483.3
54°	8506.2	8609.7	9027.4	10322.4	11694.2	12173.1	11345.5	10295.6	9176.8	8494.8	8406.6
55°	7368.2	7253.3	8012.0	9333.9	11173.1	11973.9	10996.8	9464.2	8184.4	7559.8	7437.2
57.5°	3988.7	4007.9	4647.8	5896.9	7851.0	9180.6	8107.8	6402.7	4835.5	4134.3	4073.0
60°	1264.4	1295.1	1574.8	2383.3	3751.2	4479.2	3839.3	2571.0	1777.9	1425.4	1367.9
62.5°	394.7	410.0	448.3	666.7	1026.9	1467.5	1149.5	689.7	513.4	471.3	479.0
65°	241.4	241.4	245.2	260.6	306.5	356.3	344.8	302.7	291.2	283.5	279.7
67.5°	157.1	153.3	160.9	172.4	180.1	183.9	195.4	206.9	203.1	195.4	195.4
70°	95.8	92.0	99.6	114.9	118.8	126.4	137.9	153.3	149.4	141.8	145.6
72.5°	53.6	53.6	57.5	69.0	80.5	88.1	99.6	111.1	114.9	111.1	111.1
75°	19.2	23.0	30.7	42.1	49.8	61.3	72.8	84.3	95.8	88.1	84.3
77.5°	7.7	7.7	15.3	26.8	38.3	49.8	69.0	80.5	88.1	80.5	72.8
80°	3.8	3.8	11.5	23.0	34.5	46.0	57.5	69.0	72.8	65.1	57.5
82.5°	3.8	3.8	11.5	23.0	34.5	42.1	61.3	69.0	76.6	69.0	57.5
85°	0.0	3.8	11.5	23.0	30.7	34.5	34.5	23.0	19.2	11.5	11.5
87.5°	0.0	0.0	3.8	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)