

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: P454599

Luminaire Tested: **GALN-SA5D-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33813 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

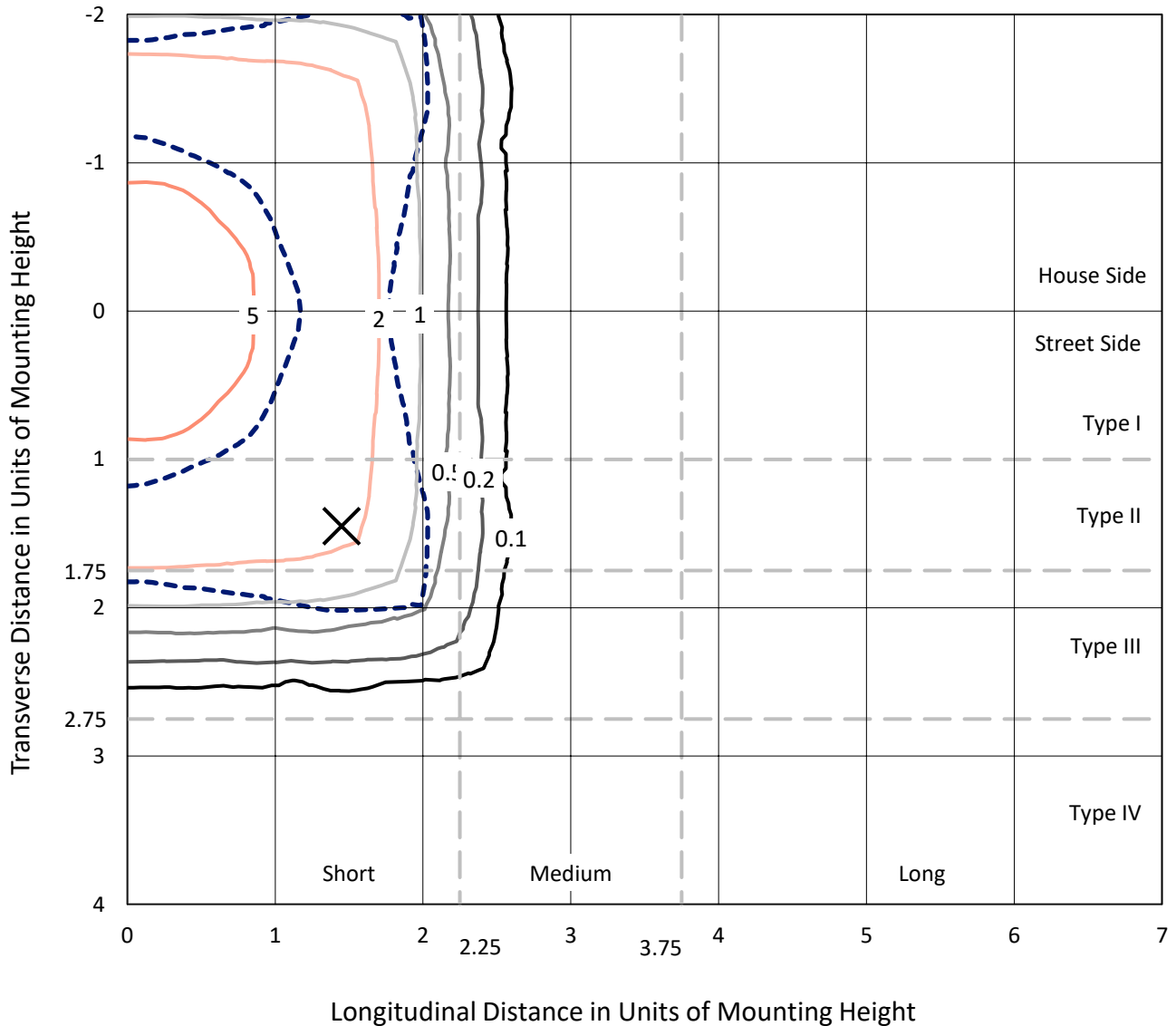
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

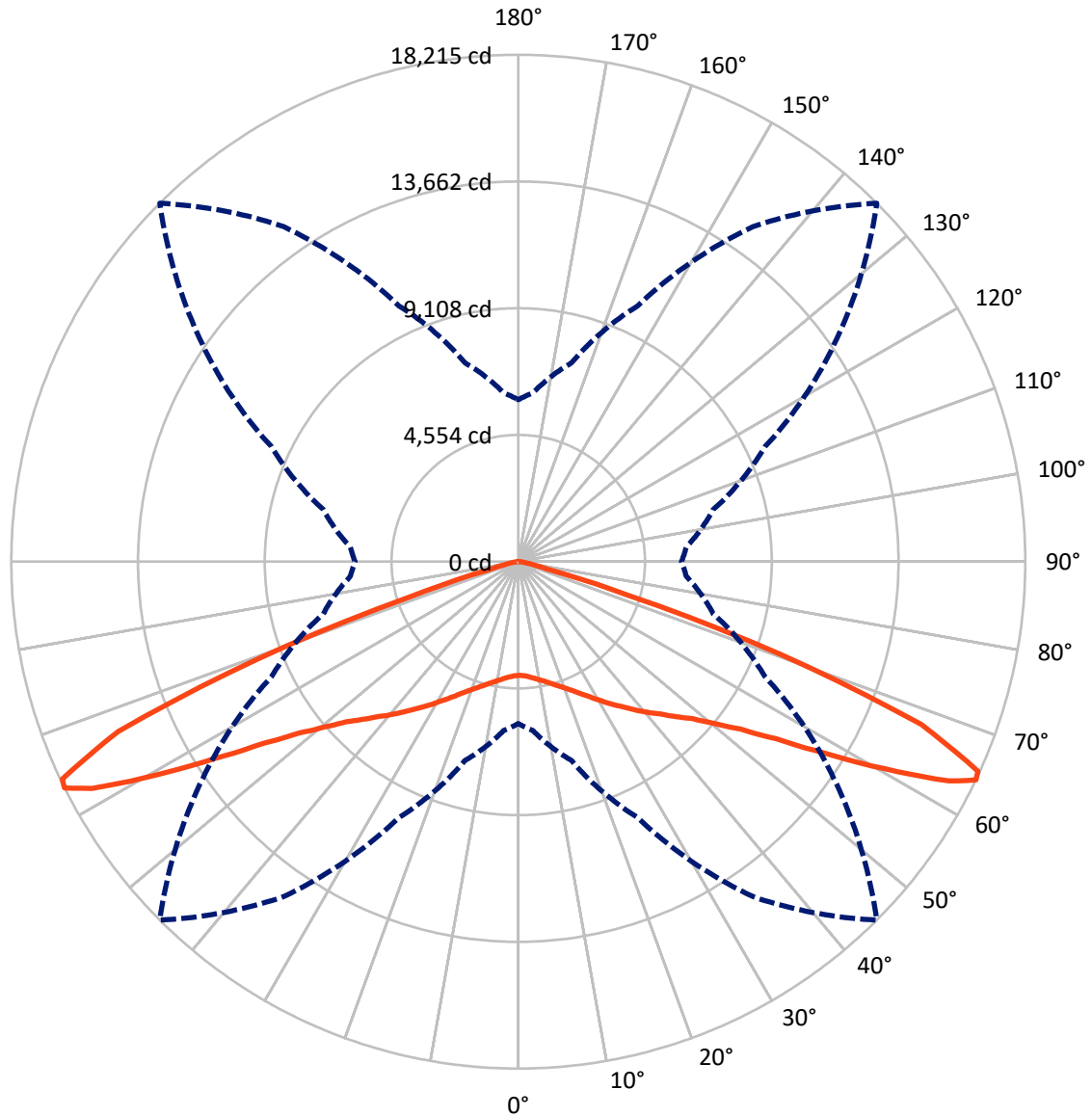
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16906.5	0.0	16906.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16906.5	0.0	16906.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33813.0	0.0	33813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.5	1.2
10°-20°	1295.1	3.8
20°-30°	2447.4	7.2
30°-40°	4053.2	12.0
40°-50°	6327.7	18.7
50°-60°	9782.4	28.9
60°-70°	8435.3	24.9
70°-80°	955.9	2.8
80°-90°	114.5	0.3
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°	33813.0	100.0
0°-180°	33813.0	100.0

Coefficient of Utilization



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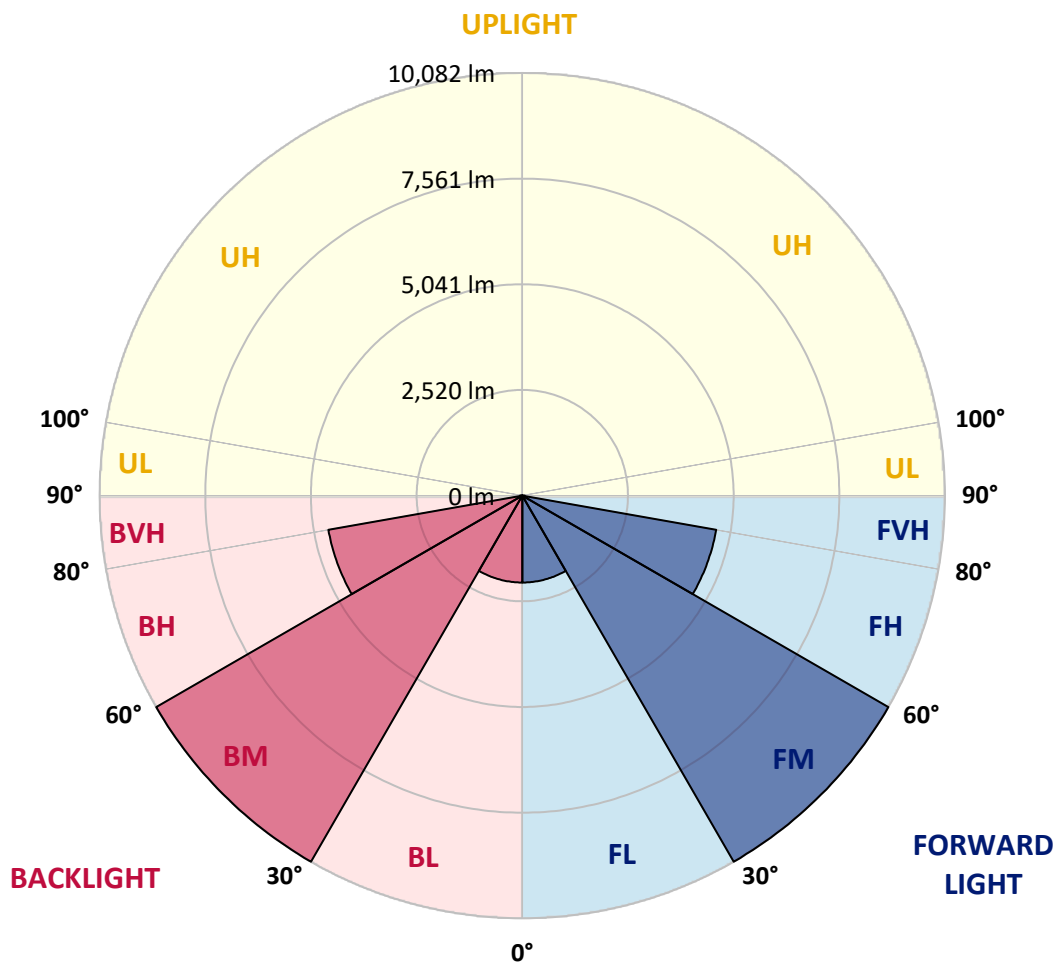
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2072.0	6.1			
FM	(30°-60°)	10081.6	29.8			
FH	(60°-80°)	4695.6	13.9			G2/5000
FVH	(80°-90°)	57.3	0.2			G1/100
BL	(0°-30°)	2072.0	6.1	B3/2500		
BM	(30°-60°)	10081.6	29.8	B5		
BH	(60°-80°)	4695.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	57.3	0.2			G1/100
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°	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9
2.5°	4103.0	4111.9	4104.8	4103.0	4101.2	4101.2	4101.2	4103.0	4110.2	4115.5	4111.9
5°	4154.9	4162.1	4158.5	4156.7	4154.9	4156.7	4153.1	4151.3	4156.7	4156.7	4154.9
7.5°	4219.4	4228.4	4224.8	4228.4	4230.1	4231.9	4223.0	4215.8	4214.0	4219.4	4215.8
10°	4307.2	4314.3	4316.1	4317.9	4321.5	4319.7	4308.9	4296.4	4294.6	4292.8	4291.0
12.5°	4405.7	4411.0	4412.8	4420.0	4425.4	4427.1	4414.6	4403.9	4386.0	4389.5	4382.4
15°	4516.7	4527.4	4525.6	4536.4	4550.7	4554.3	4541.8	4523.9	4507.7	4498.8	4493.4
17.5°	4652.8	4660.0	4656.4	4667.1	4685.0	4694.0	4683.2	4660.0	4643.8	4624.1	4613.4
20°	4814.0	4826.5	4830.1	4830.1	4846.2	4855.2	4839.1	4831.9	4806.8	4792.5	4783.5
22.5°	4996.7	5002.0	5012.8	5023.5	5039.6	5036.1	5030.7	5019.9	4996.7	4984.1	4969.8
25°	5202.6	5208.0	5234.8	5258.1	5263.5	5259.9	5252.8	5247.4	5225.9	5197.2	5186.5
27.5°	5442.6	5453.3	5489.2	5510.6	5510.6	5512.4	5498.1	5516.0	5469.5	5435.4	5431.8
30°	5743.5	5750.6	5781.1	5802.6	5791.8	5782.9	5779.3	5797.2	5747.0	5686.2	5671.8
32.5°	6040.8	6065.8	6092.7	6139.3	6101.6	6085.5	6081.9	6094.5	6037.2	5969.1	5949.4
35°	6359.5	6377.5	6427.6	6467.0	6433.0	6395.4	6411.5	6450.9	6382.8	6291.5	6287.9
37.5°	6712.4	6728.5	6792.9	6834.1	6809.1	6744.6	6771.5	6818.0	6750.0	6637.1	6613.9
40°	7079.5	7113.5	7194.1	7237.1	7195.9	7109.9	7160.1	7210.2	7149.3	7018.6	6966.7
42.5°	7491.4	7545.1	7661.5	7683.0	7604.2	7487.8	7575.6	7656.2	7613.2	7462.7	7443.0
45°	7973.2	8005.4	8148.7	8195.2	8086.0	7940.9	8050.2	8197.0	8164.8	7991.1	7953.5
47.5°	8512.2	8542.7	8691.3	8761.2	8623.3	8428.0	8625.1	8816.7	8797.0	8610.7	8592.8
50°	9149.8	9157.0	9362.9	9441.7	9303.8	9135.5	9311.0	9549.2	9470.4	9232.2	9228.6
52.5°	9848.2	9857.2	10116.9	10269.1	10192.1	10002.3	10210.0	10355.1	10154.5	9842.9	9819.6
55°	10453.6	10498.3	10852.9	11257.7	11363.4	11225.5	11288.1	11220.1	10725.8	10288.8	10220.8
57.5°	10700.7	10788.5	11327.5	12083.3	12771.0	12975.2	12491.6	11843.3	10953.2	10335.4	10269.1
60°	10097.2	10192.1	11028.5	12463.0	14218.1	15104.6	13745.3	11949.0	10435.7	9567.1	9463.2
62.5°	8086.0	8112.8	9343.2	11569.3	15061.6	17357.6	14273.6	11048.2	8929.5	7749.3	7708.1
64°	5818.7	6094.5	7398.3	10143.7	14692.7	18215.4	13969.1	9785.6	7253.2	6058.7	5865.2
65°	4351.9	4427.1	5963.7	8662.7	14042.6	18150.9	13378.1	8578.5	6006.7	4636.7	4421.8
67.5°	1644.1	1653.0	2201.0	4317.9	9996.9	15616.8	10210.0	4667.1	2530.6	1830.3	1764.1
70°	682.3	694.9	807.7	1452.4	4296.4	10027.3	4923.2	1683.5	925.9	750.4	739.6
72.5°	499.7	506.8	540.9	644.7	1321.7	4117.3	1619.0	714.6	542.6	485.3	480.0
75°	392.2	395.8	420.9	474.6	616.1	1140.8	673.4	490.7	413.7	372.5	368.9
77.5°	299.1	308.0	325.9	361.8	413.7	540.9	445.9	367.1	318.8	284.8	279.4
80°	206.0	216.7	250.7	265.1	277.6	351.0	304.5	277.6	248.9	207.7	195.2
82.5°	127.2	134.3	168.3	180.9	175.5	197.0	195.2	198.8	177.3	128.9	120.0
85°	66.3	69.8	91.3	94.9	87.8	80.6	100.3	116.4	109.2	73.4	71.6
87.5°	14.3	16.1	19.7	17.9	19.7	19.7	25.1	37.6	39.4	25.1	23.3
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)