

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: P530537

Luminaire Tested: **GALN-SA5D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530537
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-SA5D-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 24792 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

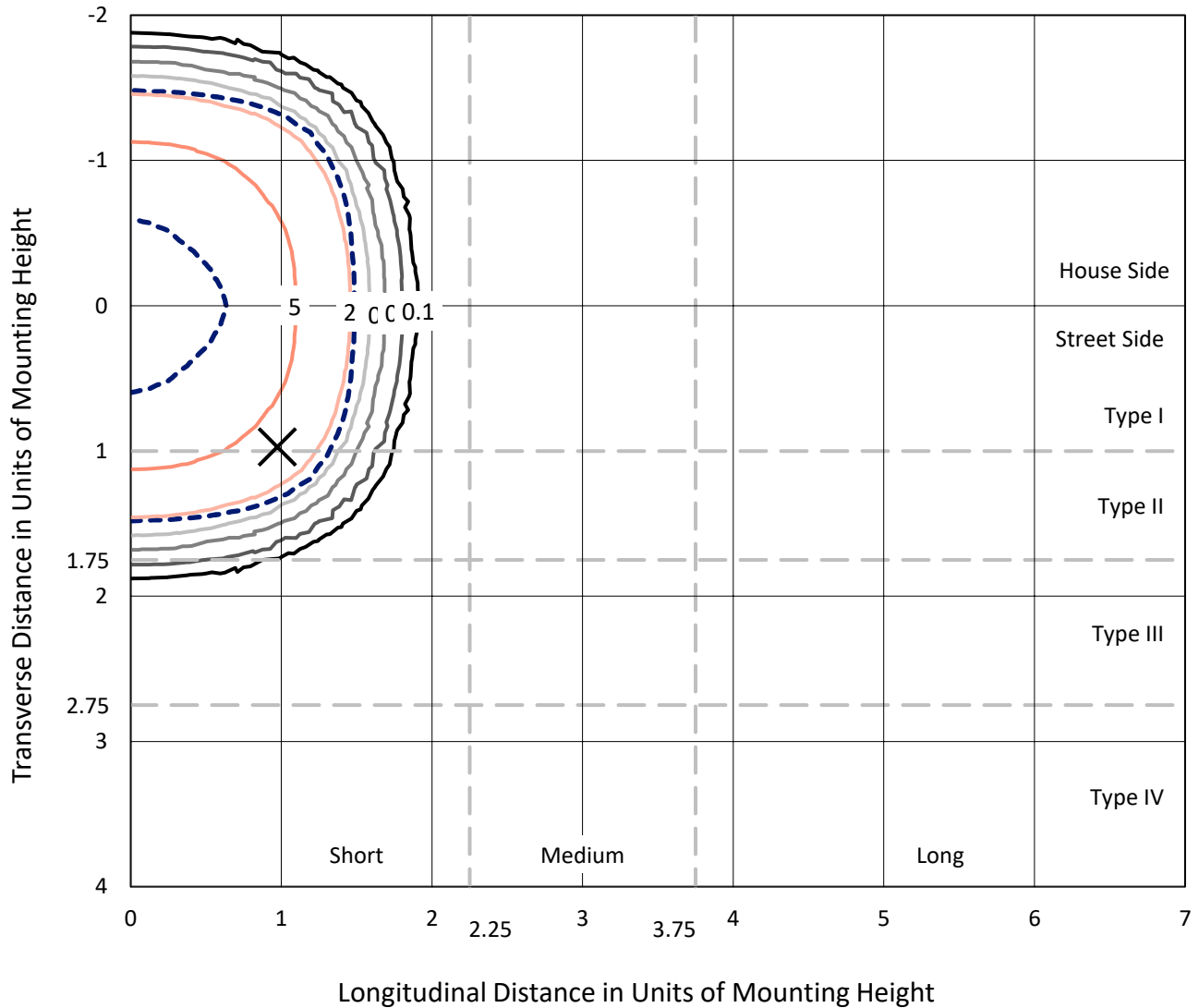
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

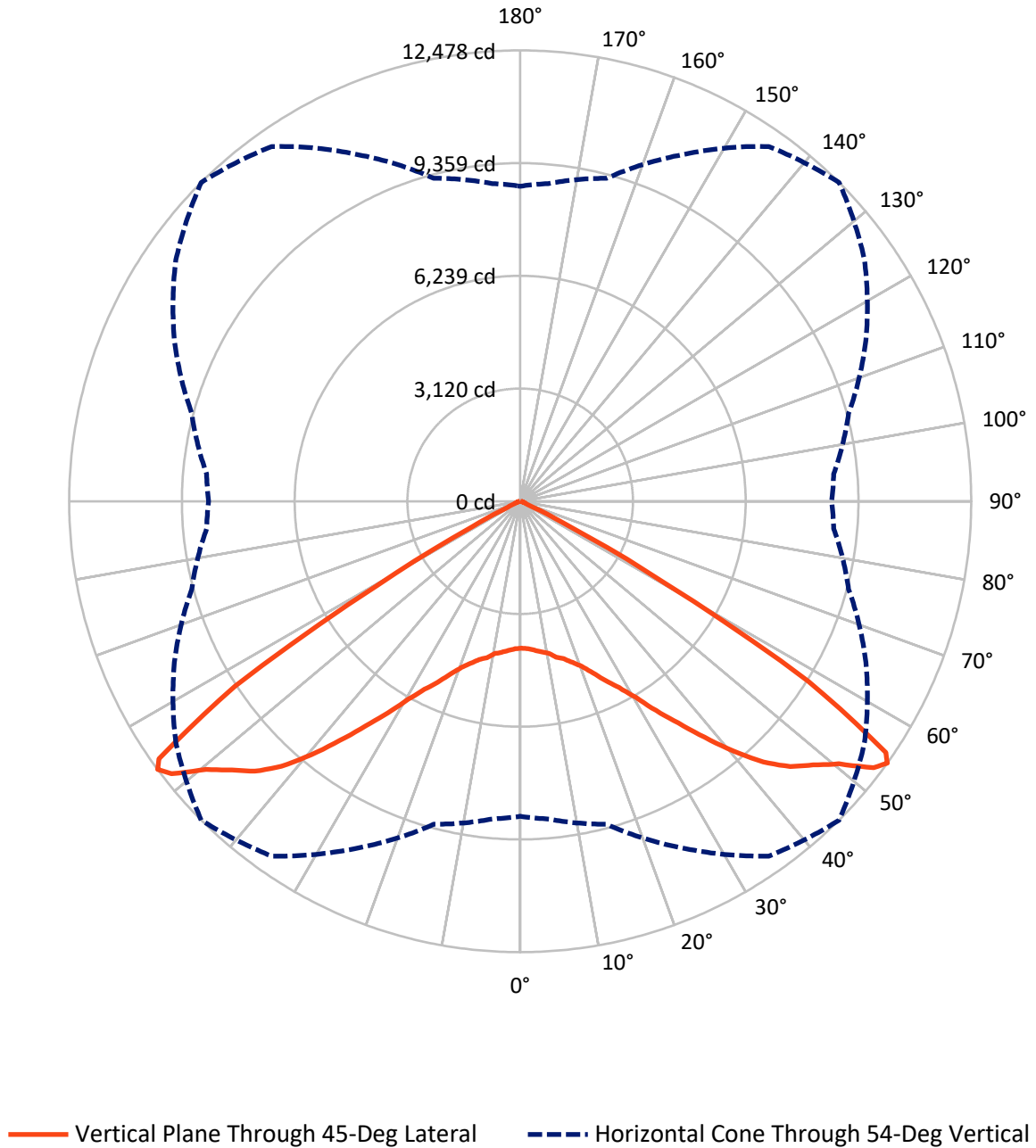
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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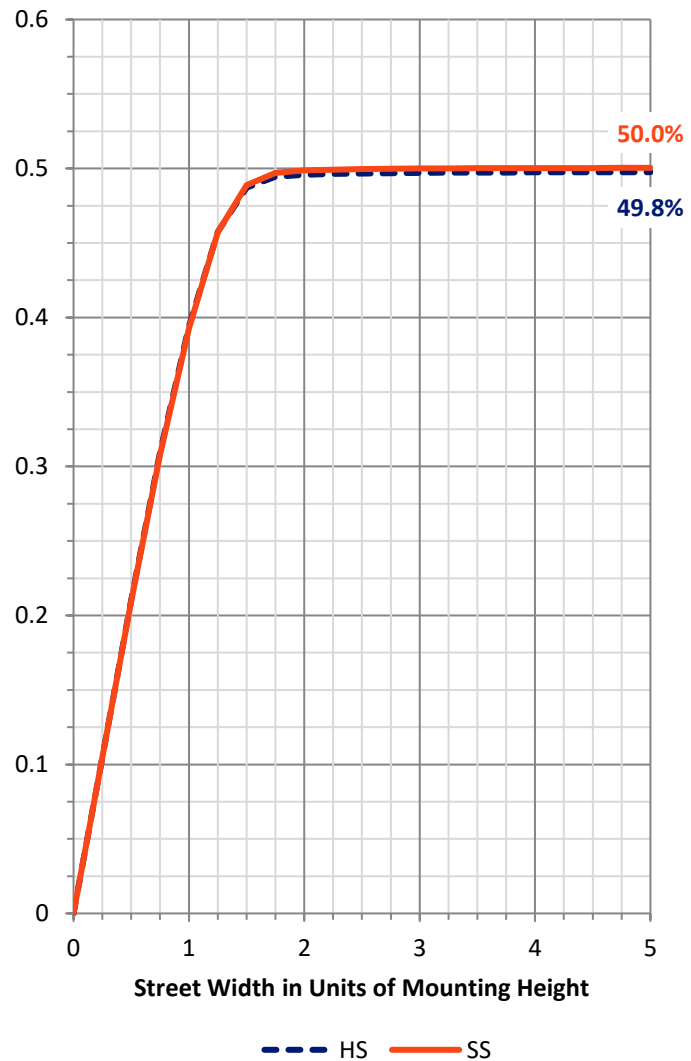
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12396.0	0.0	12396.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12396.0	0.0	12396.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24792.0	0.0	24792.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	1.6
10°-20°	1288.5	5.2
20°-30°	2525.3	10.2
30°-40°	4541.1	18.3
40°-50°	7773.5	31.4
50°-60°	7521.6	30.3
60°-70°	643.9	2.6
70°-80°	76.3	0.3
80°-90°	23.9	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°	24792.0	100.0
0°-180°	24792.0	100.0



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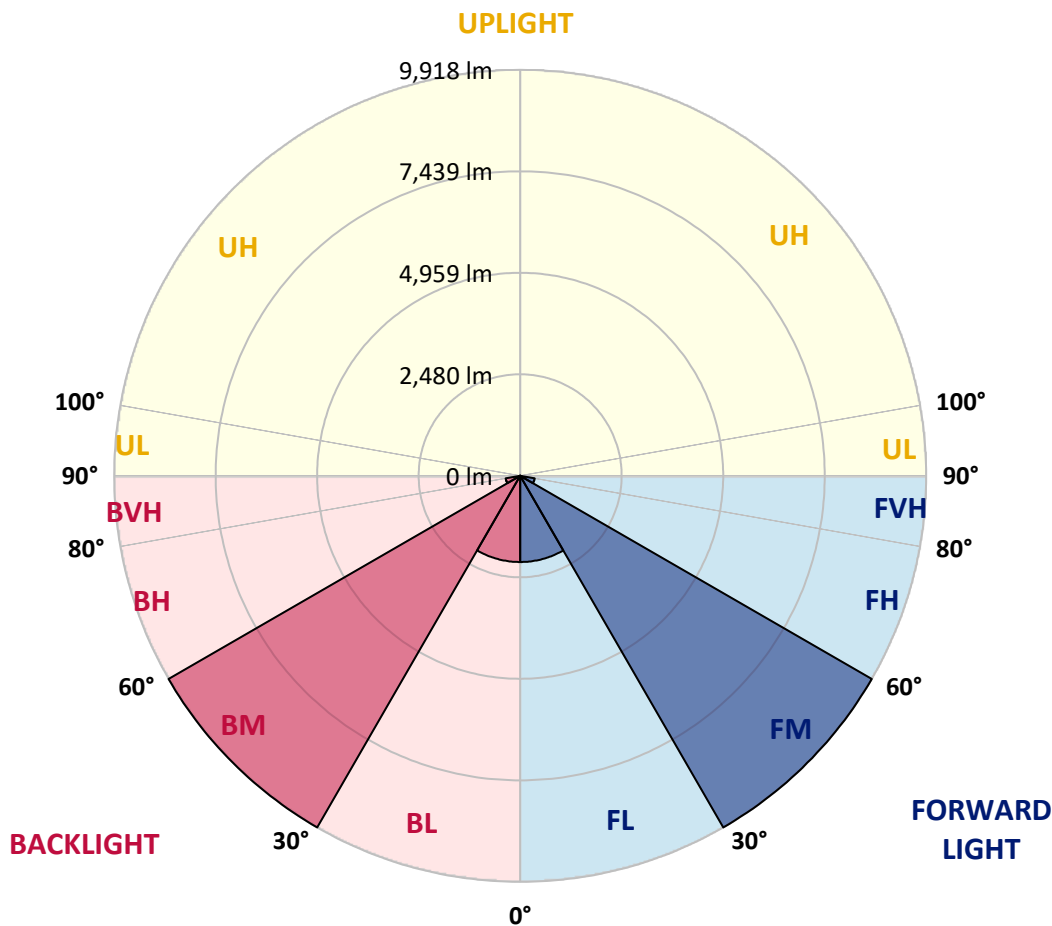
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.8	8.5			
FM (30°-60°)	9918.1	40.0			
FH (60°-80°)	360.1	1.5			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	2105.8	8.5	B3/2500		
BM (30°-60°)	9918.1	40.0	B5		
BH (60°-80°)	360.1	1.5	B1/500		G0/660
BVH (80°-90°)	12.0	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°	4065.1	4065.1	4065.1	4065.1	4065.1	4065.1	4065.1	4065.1	4065.1	4065.1	4065.1
2.5°	4084.8	4108.3	4092.6	4104.4	4104.4	4084.8	4096.5	4049.4	4080.8	4057.3	4061.2
5°	4147.6	4143.7	4143.7	4147.6	4131.9	4139.7	4124.0	4108.3	4096.5	4080.8	4128.0
7.5°	4226.1	4226.1	4198.7	4206.5	4198.7	4210.4	4179.0	4147.6	4135.8	4124.0	4116.2
10°	4300.8	4292.9	4281.1	4316.5	4289.0	4273.3	4257.6	4237.9	4194.7	4179.0	4163.3
12.5°	4410.7	4406.8	4391.1	4426.5	4410.7	4426.5	4367.5	4316.5	4308.6	4257.6	4285.1
15°	4540.4	4575.7	4548.2	4548.2	4540.4	4520.7	4497.2	4473.6	4402.9	4383.3	4387.2
17.5°	4709.2	4697.5	4701.4	4701.4	4740.7	4689.6	4642.5	4583.6	4548.2	4536.4	4497.2
20°	4870.3	4886.0	4882.1	4909.6	4933.1	4878.1	4827.1	4819.2	4721.0	4736.7	4681.8
22.5°	5153.1	5141.3	5160.9	5180.6	5164.9	5157.0	5109.9	5051.0	4964.5	4925.3	4917.4
25°	5451.6	5431.9	5396.6	5443.7	5467.3	5502.6	5412.3	5380.9	5247.3	5188.4	5192.4
27.5°	5706.9	5734.4	5773.6	5793.3	5852.2	5840.4	5777.6	5675.5	5573.3	5506.6	5463.4
30°	6056.4	6072.1	6138.9	6166.4	6268.5	6296.0	6197.8	6080.0	5899.3	5812.9	5761.9
32.5°	6378.5	6488.5	6484.5	6622.0	6787.0	6900.9	6724.1	6543.5	6362.8	6260.7	6170.3
35°	6900.9	6881.2	6995.1	7140.5	7407.5	7537.2	7344.7	7136.5	6861.6	6696.6	6625.9
37.5°	7387.9	7395.8	7548.9	7780.7	8087.0	8287.3	8118.4	7776.7	7494.0	7281.9	7183.7
40°	8094.9	8110.6	8267.7	8530.9	8876.5	9092.5	8896.1	8550.5	8173.4	8008.5	8008.5
42.5°	8923.6	8990.4	9092.5	9320.3	9630.6	9870.2	9693.4	9422.4	9041.4	8829.4	8860.8
45°	9775.9	9807.3	9874.1	10211.9	10357.2	10475.0	10310.1	10184.4	9929.1	9669.9	9626.7
47.5°	10573.2	10585.0	10781.4	10887.4	11001.3	10903.2	11009.2	10844.2	10557.5	10306.1	10255.1
50°	10926.7	10907.1	11185.9	11508.0	11594.4	11421.6	11331.3	11221.3	10785.3	10482.9	10349.4
52.5°	9897.7	10011.6	10530.0	11425.5	12101.1	12246.4	11720.1	11213.4	10400.4	9811.3	9720.9
54°	8719.4	8825.4	9253.5	10581.1	11987.2	12478.1	11629.8	10553.6	9406.7	8707.6	8617.3
55°	7552.9	7435.0	8212.7	9567.8	11453.0	12273.9	11272.3	9701.3	8389.5	7749.2	7623.6
57.5°	4088.7	4108.3	4764.2	6044.7	8047.8	9410.6	8310.9	6563.1	4956.7	4237.9	4175.1
60°	1296.1	1327.5	1614.3	2443.0	3845.2	4591.4	3935.5	2635.5	1822.4	1461.1	1402.2
62.5°	404.5	420.3	459.5	683.4	1052.6	1504.3	1178.3	707.0	526.3	483.1	491.0
65°	247.4	247.4	251.4	267.1	314.2	365.3	353.5	310.3	298.5	290.6	286.7
67.5°	161.0	157.1	165.0	176.7	184.6	188.5	200.3	212.1	208.2	200.3	200.3
70°	98.2	94.3	102.1	117.8	121.8	129.6	141.4	157.1	153.2	145.3	149.3
72.5°	55.0	55.0	58.9	70.7	82.5	90.3	102.1	113.9	117.8	113.9	113.9
75°	19.6	23.6	31.4	43.2	51.1	62.8	74.6	86.4	98.2	90.3	86.4
77.5°	7.9	7.9	15.7	27.5	39.3	51.1	70.7	82.5	90.3	82.5	74.6
80°	3.9	3.9	11.8	23.6	35.3	47.1	58.9	70.7	74.6	66.8	58.9
82.5°	3.9	3.9	11.8	23.6	35.3	43.2	62.8	70.7	78.6	70.7	58.9
85°	0.0	3.9	11.8	23.6	31.4	35.3	35.3	23.6	19.6	11.8	11.8
87.5°	0.0	0.0	3.9	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)