

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: P456570

Luminaire Tested: **GALN-SA7D-760-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56512 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

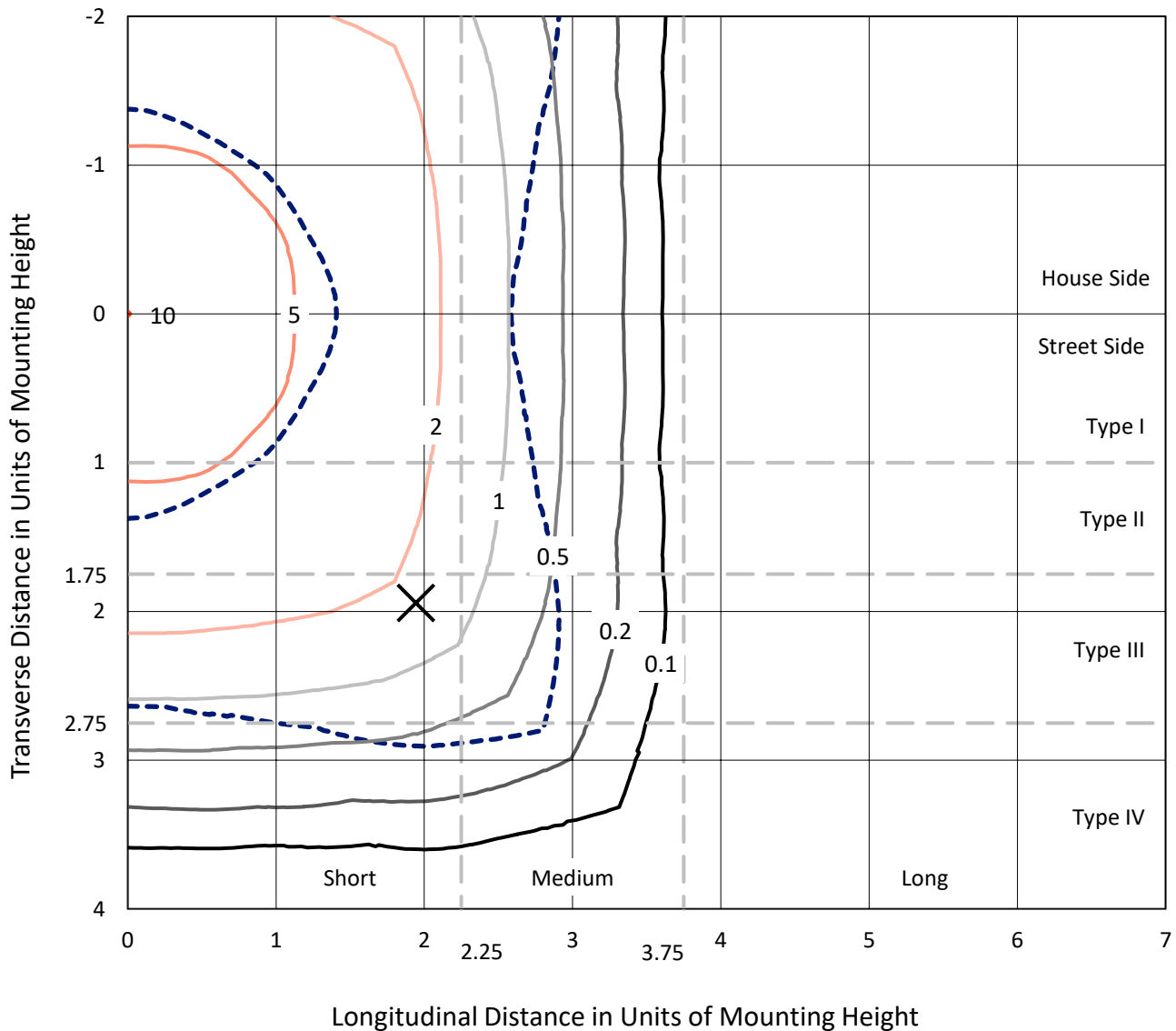
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

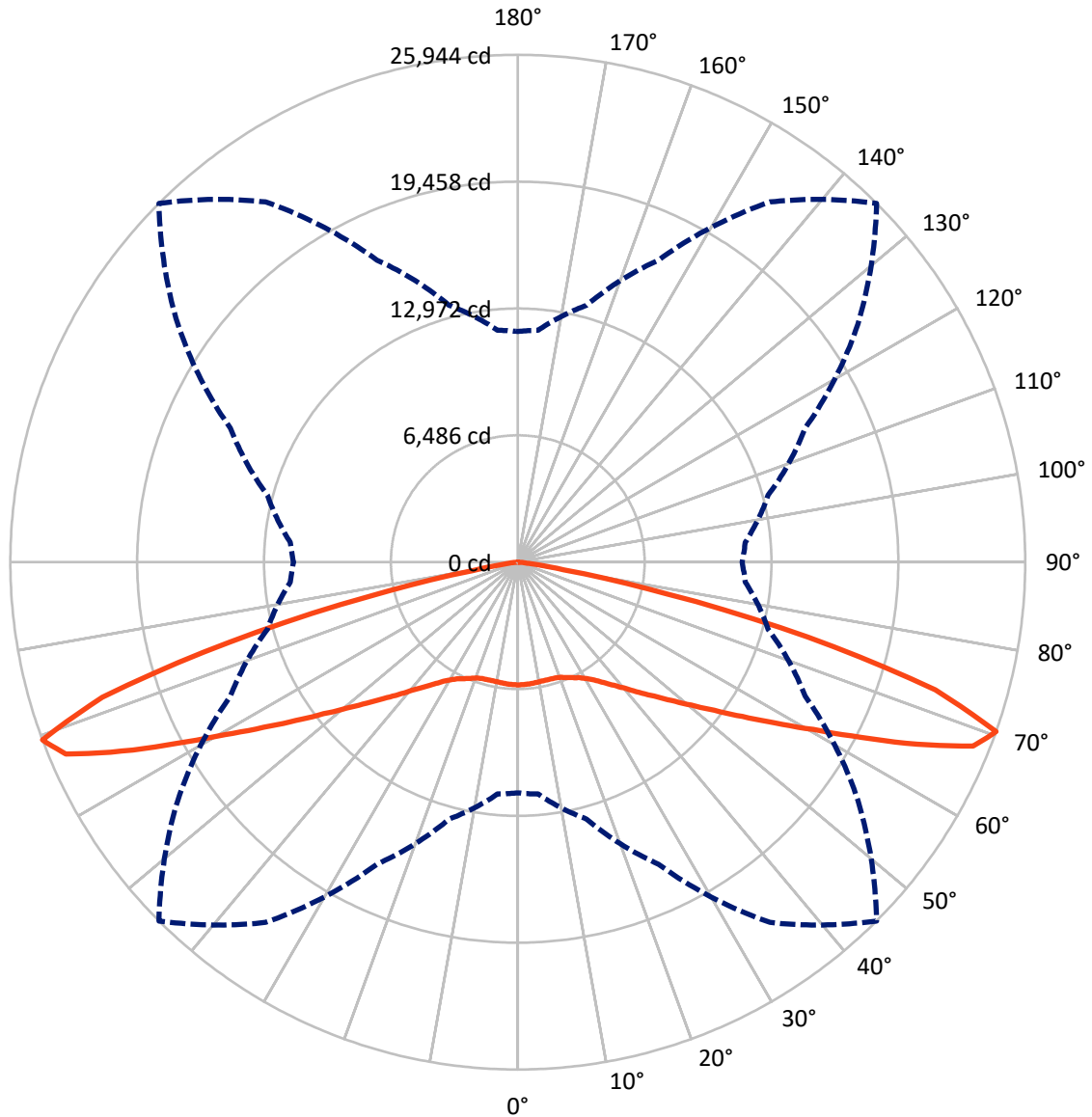
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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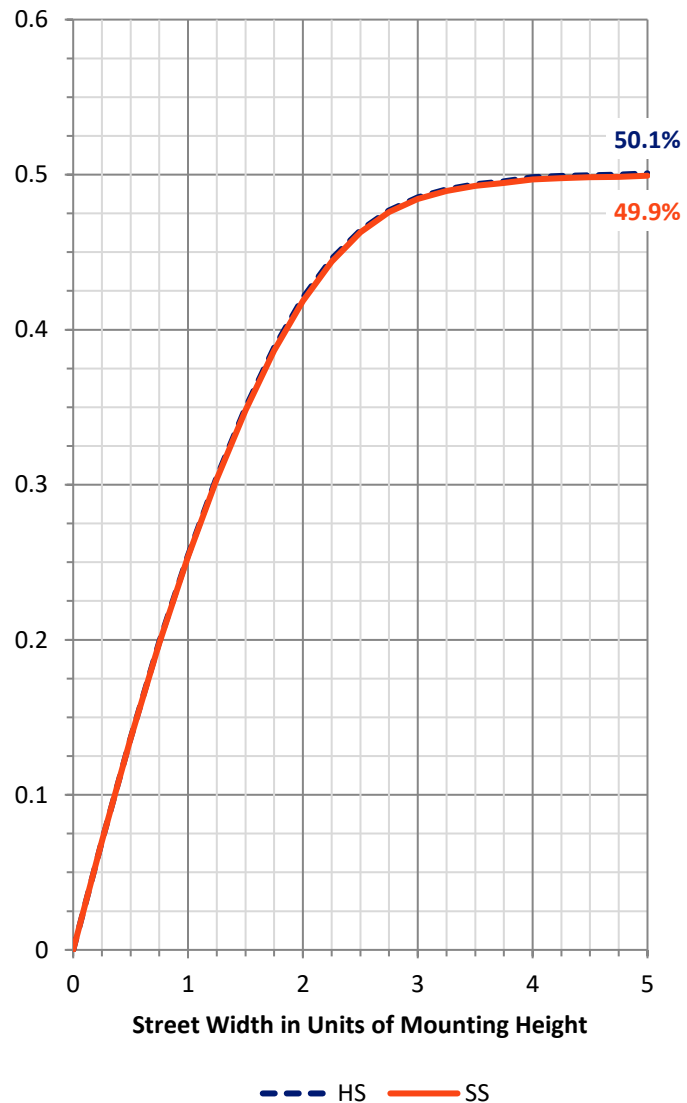
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28256.0	0.0	28256.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28256.0	0.0	28256.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	56512.0	0.0	56512.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.1	1.1
10°-20°	1746.3	3.1
20°-30°	2986.6	5.3
30°-40°	4740.4	8.4
40°-50°	7647.5	13.5
50°-60°	12442.6	22.0
60°-70°	18037.3	31.9
70°-80°	8000.7	14.2
80°-90°	315.6	0.6
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°	56512.0	100.0
0°-180°	56512.0	100.0



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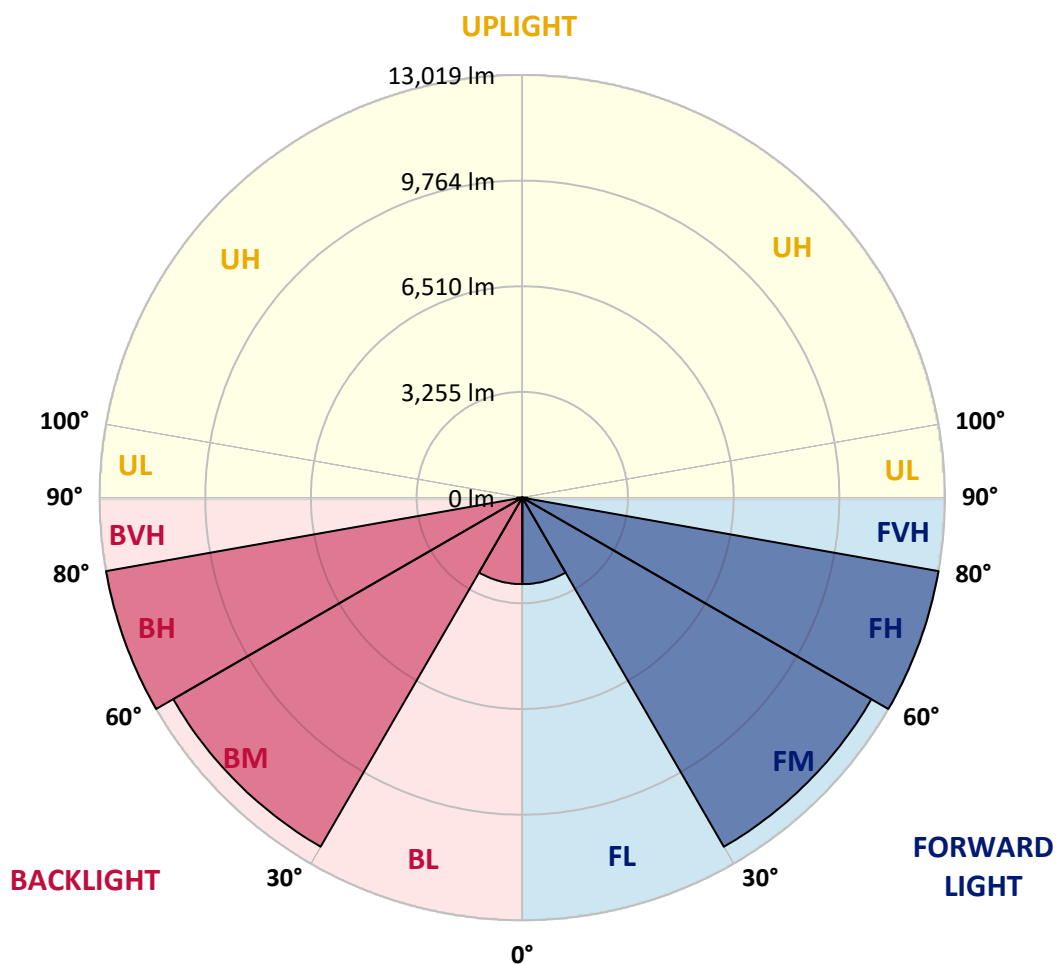
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2664.0	4.7			
FM	(30°-60°)	12415.2	22.0			
FH	(60°-80°)	13019.0	23.0			G5
FVH	(80°-90°)	157.8	0.3			G2/225
BL	(0°-30°)	2664.0	4.7	B4/5000		
BM	(30°-60°)	12415.2	22.0	B5		
BH	(60°-80°)	13019.0	23.0	B5		G5
BVH	(80°-90°)	157.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6275.4	6275.4	6275.4	6275.4	6275.4	6275.4	6275.4	6275.4	6275.4	6275.4	6275.4
2.5°	6275.4	6281.3	6272.4	6266.5	6263.5	6263.5	6260.5	6263.5	6281.3	6284.3	6275.4
5°	6257.5	6263.5	6260.5	6254.5	6251.6	6251.6	6248.6	6245.6	6260.5	6266.5	6263.5
7.5°	6233.7	6236.7	6233.7	6230.7	6233.7	6230.7	6221.8	6215.8	6227.7	6227.7	6224.8
10°	6192.0	6198.0	6195.0	6198.0	6203.9	6203.9	6192.0	6180.1	6183.1	6177.1	6177.1
12.5°	6141.4	6150.3	6153.3	6165.2	6180.1	6198.0	6171.1	6144.3	6138.4	6135.4	6132.4
15°	6108.6	6117.5	6129.5	6141.4	6168.2	6206.9	6168.2	6126.5	6114.6	6102.6	6096.7
17.5°	6099.7	6111.6	6129.5	6147.3	6183.1	6221.8	6189.0	6147.3	6117.5	6099.7	6093.7
20°	6123.5	6132.4	6159.2	6192.0	6242.6	6281.3	6248.6	6203.9	6159.2	6132.4	6123.5
22.5°	6171.1	6186.0	6218.8	6278.4	6349.9	6406.4	6361.8	6287.3	6215.8	6180.1	6168.2
25°	6275.4	6287.3	6326.0	6406.4	6489.8	6543.4	6495.8	6409.4	6311.1	6263.5	6248.6
27.5°	6433.2	6451.1	6492.8	6588.1	6656.6	6686.4	6653.6	6594.1	6522.6	6472.0	6460.0
30°	6656.6	6677.5	6740.0	6841.3	6886.0	6903.8	6888.9	6850.2	6799.6	6746.0	6734.1
32.5°	6957.4	6969.3	7040.8	7136.1	7177.8	7183.8	7165.9	7148.0	7064.7	6975.3	6969.3
35°	7294.0	7314.8	7401.2	7514.4	7553.1	7556.1	7520.3	7493.5	7395.3	7323.8	7323.8
37.5°	7740.7	7749.7	7833.1	7961.1	8002.8	7990.9	7973.1	7949.2	7845.0	7752.7	7755.6
40°	8264.9	8282.8	8354.3	8503.2	8503.2	8488.3	8500.2	8482.4	8378.1	8288.8	8291.7
42.5°	8887.4	8896.3	8982.7	9140.6	9128.7	9098.9	9110.8	9087.0	9021.4	8920.2	8884.4
45°	9551.6	9587.3	9736.2	9888.1	9864.3	9769.0	9816.7	9810.7	9751.1	9599.2	9608.2
47.5°	10352.8	10412.3	10555.3	10737.0	10710.2	10561.2	10614.9	10650.6	10567.2	10400.4	10370.6
50°	11255.2	11293.9	11505.4	11675.1	11651.3	11493.5	11615.6	11621.5	11413.1	11177.8	11177.8
52.5°	12217.2	12255.9	12541.8	12806.9	12821.8	12592.5	12690.8	12684.8	12345.3	12035.5	11976.0
55°	13295.4	13313.2	13682.6	14072.7	14156.1	13932.7	13944.7	13825.5	13384.7	13024.3	12991.6
57.5°	14409.3	14474.8	14882.8	15389.2	15636.4	15499.4	15436.8	15118.1	14692.2	14278.2	14257.4
60°	15642.3	15645.3	16175.4	16774.1	17274.5	17366.8	17110.6	16684.7	16133.7	15585.7	15561.9
62.5°	16497.1	16625.2	17295.3	18307.9	19204.4	19722.7	19046.6	18153.1	17068.9	16184.4	16095.0
65°	16672.8	16759.2	17780.8	19496.3	21328.0	22444.9	20881.2	18981.0	17131.5	15952.1	15892.5
67.5°	15252.1	15344.5	16720.5	19353.3	22817.2	25107.5	22072.6	18581.9	16071.2	14611.8	14495.6
70°	11797.3	11901.5	13602.1	17036.2	22486.6	25944.4	21223.7	16208.2	13253.7	11678.1	11466.7
72.5°	6272.4	6656.6	8110.1	11693.0	18251.4	22337.7	17402.5	11827.0	8547.9	6987.2	6707.3
75°	2290.4	2338.0	3148.1	5185.3	10617.8	15317.7	11025.9	5641.0	3243.4	2504.8	2376.7
77.5°	947.1	944.1	1036.5	1566.6	3857.0	7845.0	4303.7	1656.0	1033.5	956.1	944.1
80°	559.9	559.9	616.5	652.3	1015.6	2367.8	1134.8	738.6	619.5	565.9	574.8
82.5°	250.2	265.1	390.2	411.0	491.4	649.3	548.0	470.6	405.1	280.0	253.2
85°	137.0	119.1	205.5	214.4	235.3	241.2	259.1	256.1	235.3	137.0	140.0
87.5°	26.8	32.8	59.6	44.7	50.6	44.7	59.6	83.4	86.4	47.7	38.7
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)