

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: P532435

Luminaire Tested: **GALN-SA7D-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532435
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-SA7D-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 37015 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

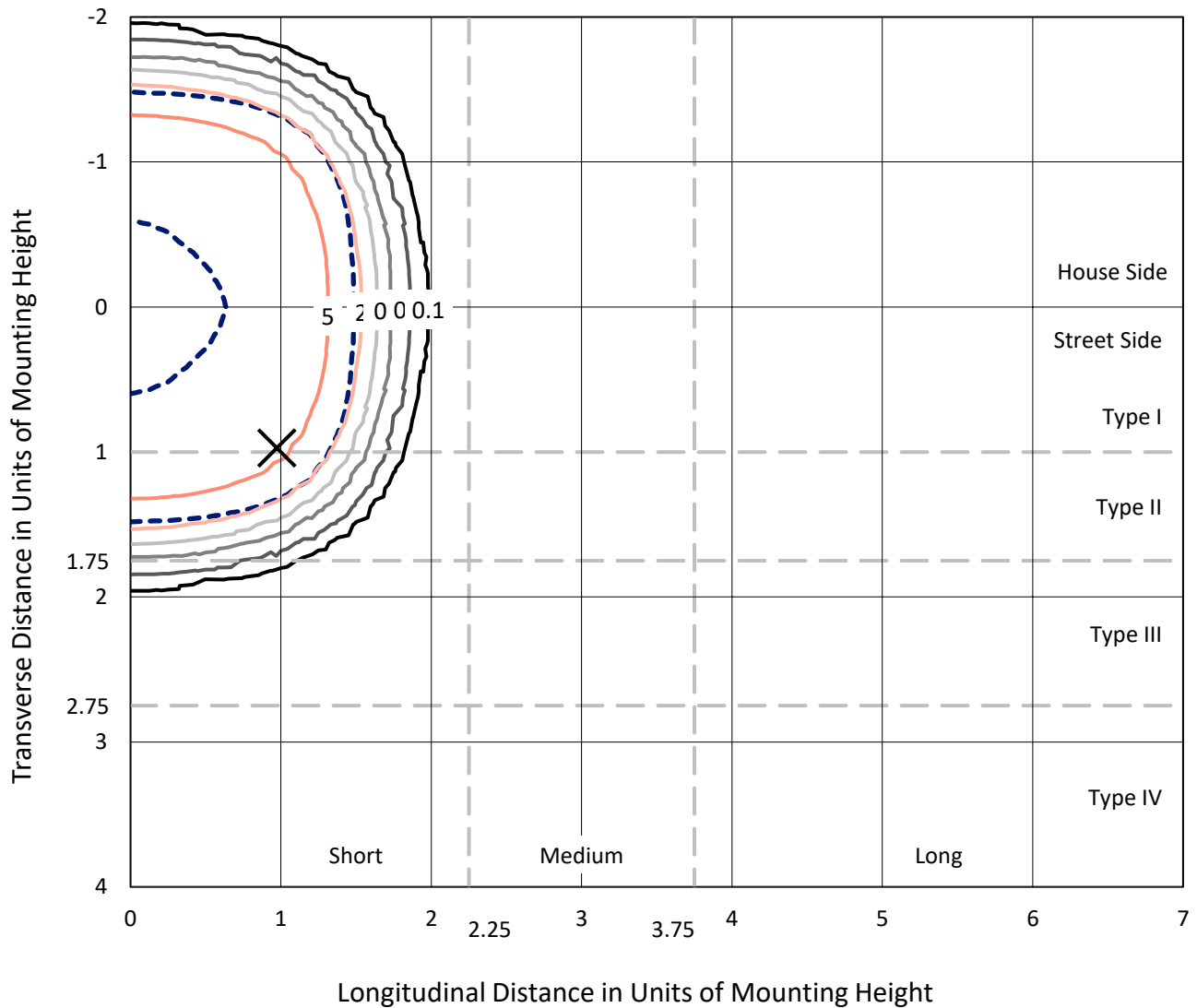
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

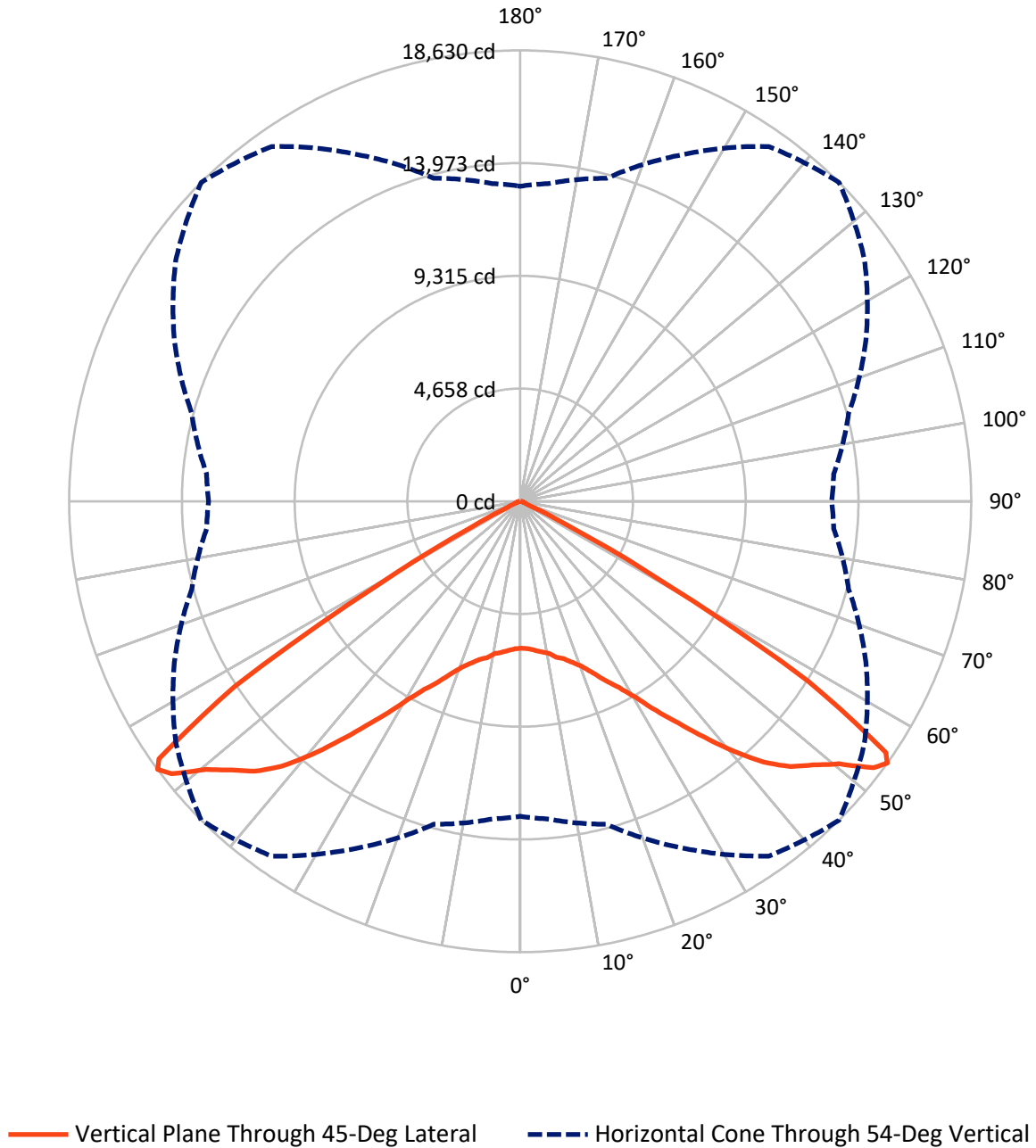
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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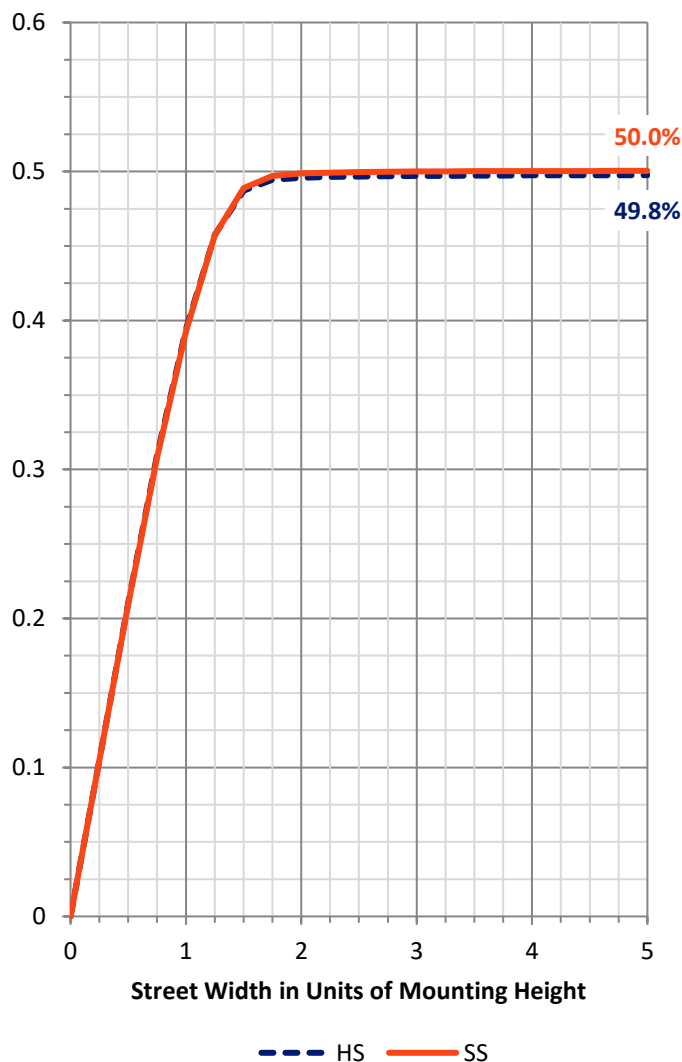
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18507.5	0.0	18507.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18507.5	0.0	18507.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37015.0	0.0	37015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.0	1.6
10°-20°	1923.7	5.2
20°-30°	3770.4	10.2
30°-40°	6780.0	18.3
40°-50°	11606.0	31.4
50°-60°	11229.9	30.3
60°-70°	961.3	2.6
70°-80°	113.9	0.3
80°-90°	35.7	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°	37015.0	100.0
0°-180°	37015.0	100.0

Coefficient of Utilization



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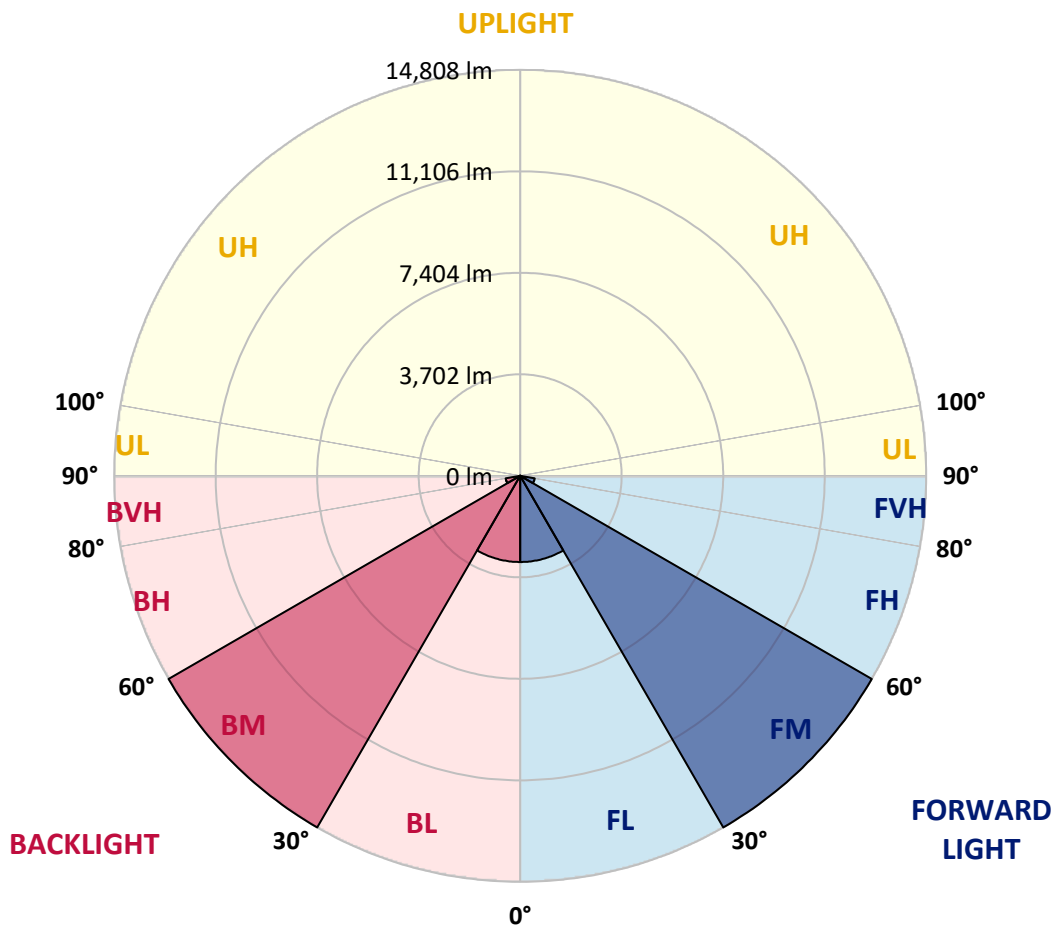
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.1	8.5			
FM (30°-60°)	14807.9	40.0			
FH (60°-80°)	537.6	1.5			G0/660
FVH (80°-90°)	17.9	0.0			G1/100
BL (0°-30°)	3144.1	8.5	B4/5000		
BM (30°-60°)	14807.9	40.0	B5		
BH (60°-80°)	537.6	1.5	B2/1000		G0/660
BVH (80°-90°)	17.9	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°	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3
2.5°	6098.6	6133.8	6110.4	6127.9	6127.9	6098.6	6116.2	6045.9	6092.8	6057.6	6063.4
5°	6192.5	6186.6	6186.6	6192.5	6169.0	6180.7	6157.3	6133.8	6116.2	6092.8	6163.1
7.5°	6309.7	6309.7	6268.7	6280.4	6268.7	6286.3	6239.4	6192.5	6174.9	6157.3	6145.5
10°	6421.2	6409.4	6391.8	6444.6	6403.6	6380.1	6356.6	6327.3	6262.8	6239.4	6215.9
12.5°	6585.3	6579.5	6556.0	6608.8	6585.3	6608.8	6520.8	6444.6	6432.9	6356.6	6397.7
15°	6778.9	6831.6	6790.6	6790.6	6778.9	6749.5	6714.4	6679.2	6573.6	6544.3	6550.2
17.5°	7031.0	7013.4	7019.3	7019.3	7077.9	7001.7	6931.3	6843.4	6790.6	6773.0	6714.4
20°	7271.4	7294.9	7289.0	7330.1	7365.3	7283.2	7206.9	7195.2	7048.6	7072.1	6990.0
22.5°	7693.7	7676.1	7705.4	7734.7	7711.2	7699.5	7629.1	7541.2	7412.2	7353.5	7341.8
25°	8139.3	8110.0	8057.2	8127.6	8162.8	8215.6	8080.7	8033.8	7834.4	7746.4	7752.3
27.5°	8520.5	8561.5	8620.2	8649.5	8737.5	8719.9	8626.0	8473.6	8321.1	8221.4	8156.9
30°	9042.4	9065.8	9165.5	9206.6	9359.0	9400.1	9253.5	9077.6	8807.8	8678.8	8602.6
32.5°	9523.2	9687.4	9681.6	9886.8	10133.1	10303.2	10039.3	9769.5	9499.8	9347.3	9212.4
35°	10303.2	10273.8	10443.9	10660.9	11059.6	11253.1	10965.8	10655.0	10244.5	9998.2	9892.7
37.5°	11030.3	11042.0	11270.7	11616.7	12074.1	12373.2	12121.0	11610.8	11188.6	10872.0	10725.4
40°	12085.8	12109.3	12343.9	12736.7	13252.8	13575.3	13282.1	12766.1	12203.1	11956.8	11956.8
42.5°	13323.2	13422.8	13575.3	13915.4	14378.7	14736.4	14472.5	14067.9	13499.1	13182.4	13229.3
45°	14595.7	14642.6	14742.3	15246.6	15463.5	15639.5	15393.2	15205.5	14824.4	14437.3	14372.8
47.5°	15786.1	15803.7	16096.9	16255.2	16425.2	16278.6	16437.0	16190.7	15762.6	15387.3	15311.1
50°	16313.8	16284.5	16700.9	17181.7	17310.7	17052.7	16917.8	16753.6	16102.7	15651.2	15451.8
52.5°	14777.4	14947.5	15721.6	17058.6	18067.2	18284.2	17498.4	16741.9	15528.0	14648.4	14513.6
54°	13018.2	13176.6	13815.7	15797.8	17897.1	18630.1	17363.5	15756.7	14044.4	13000.6	12865.8
55°	11276.6	11100.7	12261.8	14284.9	17099.6	18325.2	16829.9	14484.2	12525.6	11569.8	11382.1
57.5°	6104.5	6133.8	7113.1	9024.8	12015.5	14050.3	12408.4	9798.9	7400.4	6327.3	6233.5
60°	1935.1	1982.1	2410.1	3647.4	5740.9	6855.1	5875.8	3934.8	2720.9	2181.4	2093.5
62.5°	604.0	627.5	686.1	1020.3	1571.6	2245.9	1759.2	1055.5	785.8	721.3	733.0
65°	369.4	369.4	375.3	398.8	469.1	545.4	527.8	463.3	445.7	433.9	428.1
67.5°	240.4	234.6	246.3	263.9	275.6	281.5	299.1	316.7	310.8	299.1	299.1
70°	146.6	140.7	152.5	175.9	181.8	193.5	211.1	234.6	228.7	217.0	222.8
72.5°	82.1	82.1	88.0	105.6	123.1	134.9	152.5	170.1	175.9	170.1	170.1
75°	29.3	35.2	46.9	64.5	76.2	93.8	111.4	129.0	146.6	134.9	129.0
77.5°	11.7	11.7	23.5	41.0	58.6	76.2	105.6	123.1	134.9	123.1	111.4
80°	5.9	5.9	17.6	35.2	52.8	70.4	88.0	105.6	111.4	99.7	88.0
82.5°	5.9	5.9	17.6	35.2	52.8	64.5	93.8	105.6	117.3	105.6	88.0
85°	0.0	5.9	17.6	35.2	46.9	52.8	52.8	35.2	29.3	17.6	17.6
87.5°	0.0	0.0	5.9	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)