

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: P458368

Luminaire Tested: **GALN-SA9D-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458368
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-SA9D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 73554 lumens
Efficiency: N/A
Efficacy: 133.3 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): 552
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

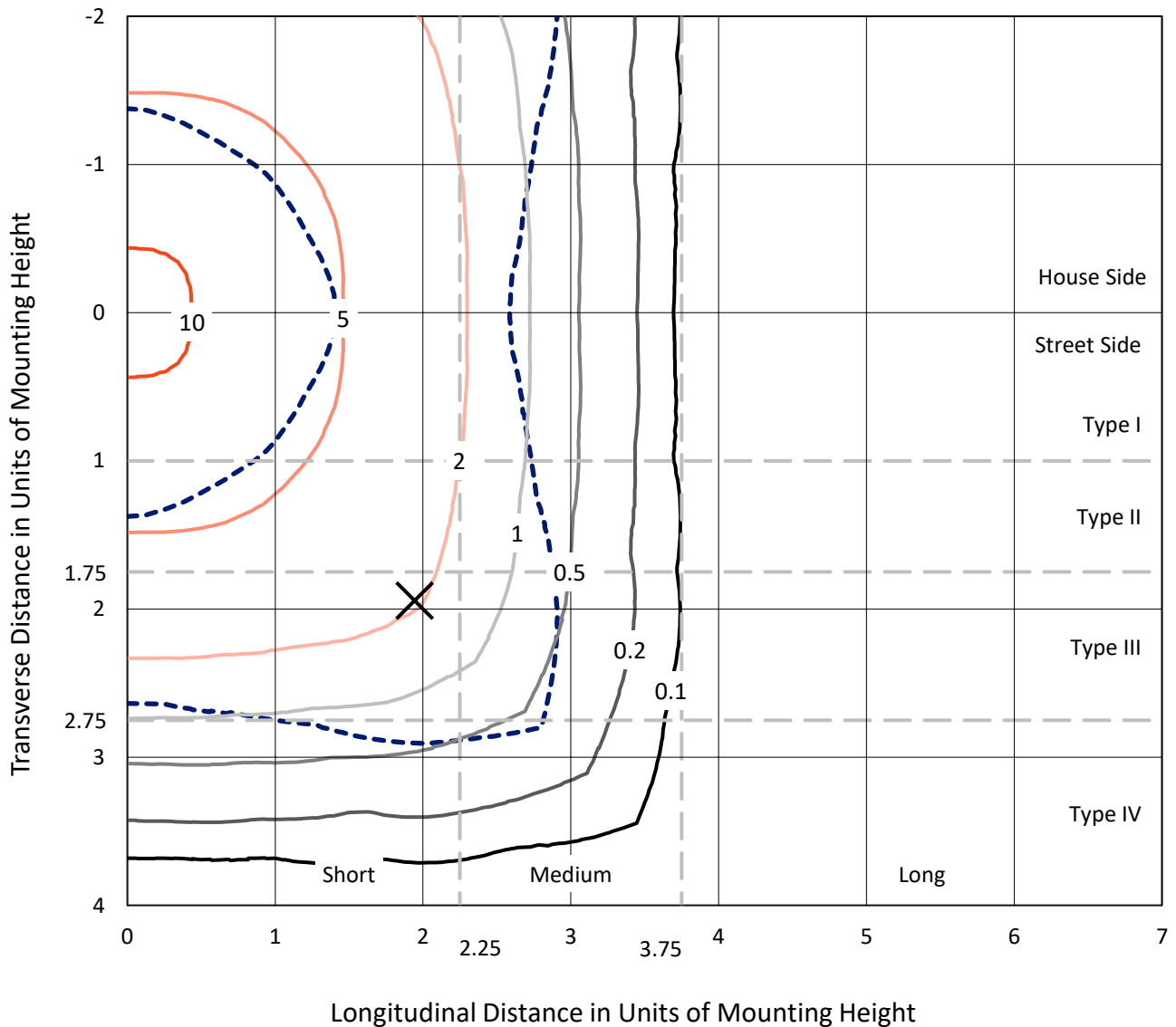




REPORT NUMBER: P458368
 CATALOG NUMBER: GALN-SA9D-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

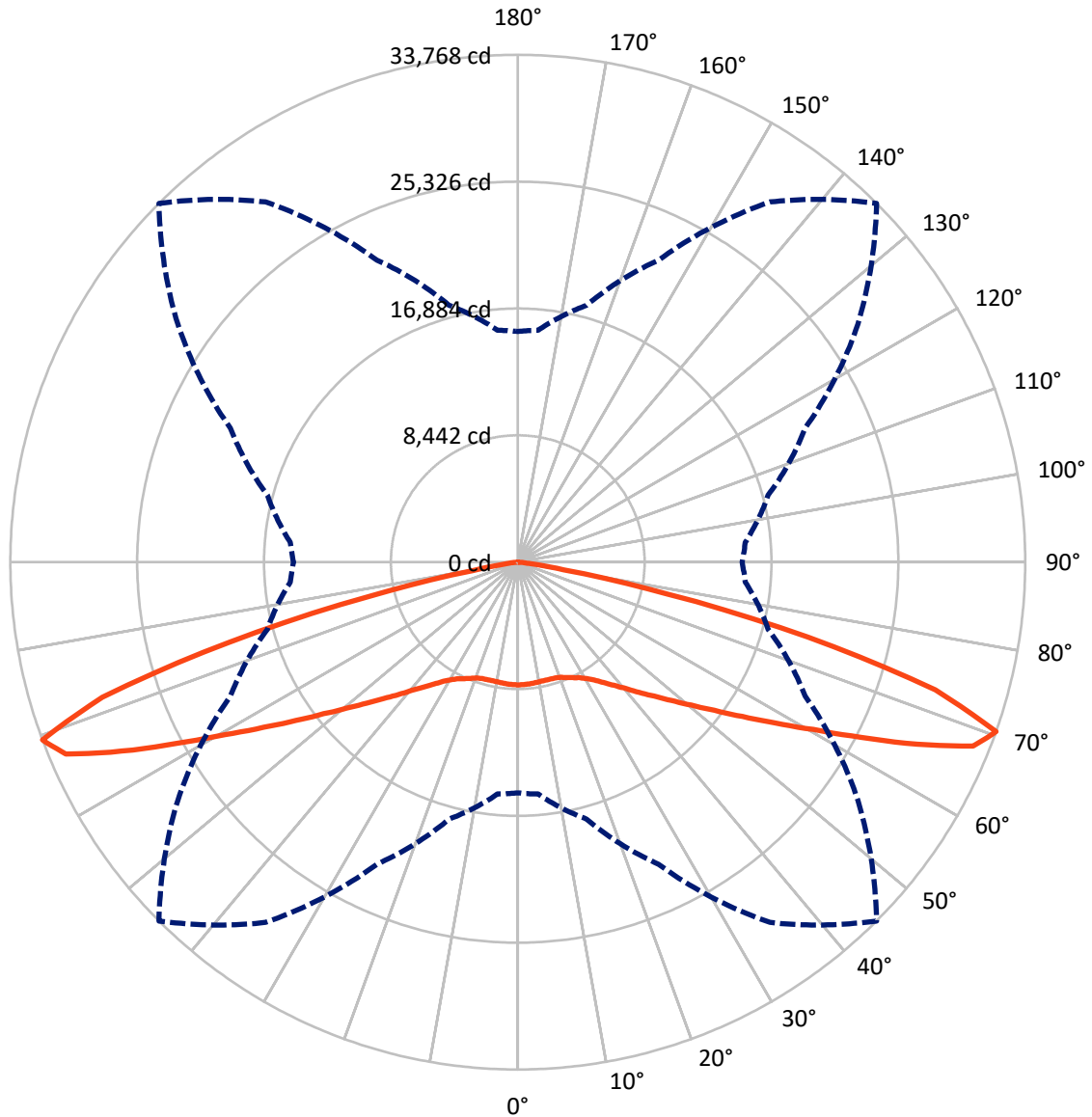
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type V - Short - N/A

REPORT NUMBER: P458368
CATALOG NUMBER: GALN-SA9D-740-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458368

CATALOG NUMBER: GALN-SA9D-740-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36777.0	0.0	36777.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36777.0	0.0	36777.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	73554.0	0.0	73554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.5	1.1
10°-20°	2272.9	3.1
20°-30°	3887.2	5.3
30°-40°	6169.9	8.4
40°-50°	9953.7	13.5
50°-60°	16194.9	22.0
60°-70°	23476.7	31.9
70°-80°	10413.4	14.2
80°-90°	410.7	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°	73554.0	100.0
0°-180°	73554.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458368

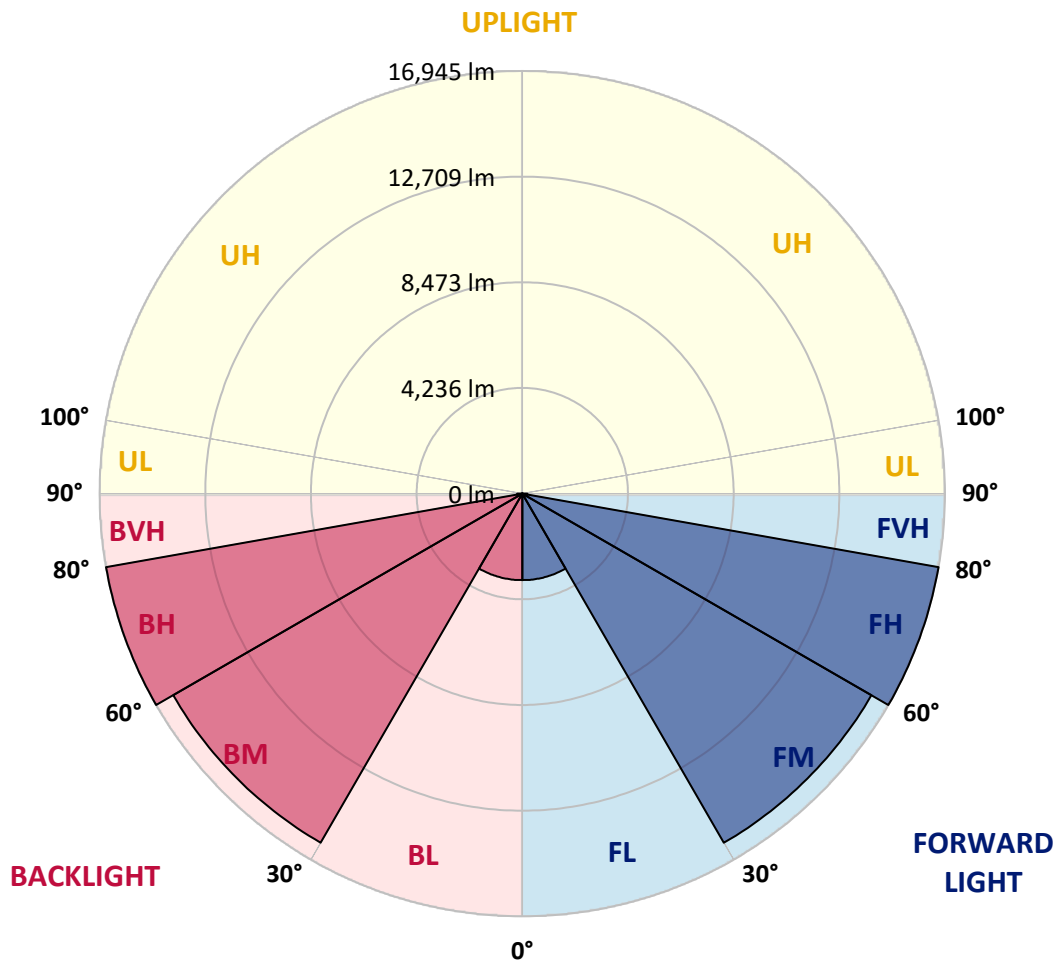
CATALOG NUMBER: GALN-SA9D-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3467.3	4.7			
FM (30°-60°)	16159.2	22.0			
FH (60°-80°)	16945.1	23.0			G5
FVH (80°-90°)	205.4	0.3			G2/225
BL (0°-30°)	3467.3	4.7	B4/5000		
BM (30°-60°)	16159.2	22.0	B5		
BH (60°-80°)	16945.1	23.0	B5		G5
BVH (80°-90°)	205.4	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





REPORT NUMBER: P458368
 CATALOG NUMBER: GALN-SA9D-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8167.8	8167.8	8167.8	8167.8	8167.8	8167.8	8167.8	8167.8	8167.8	8167.8	8167.8
2.5°	8167.8	8175.6	8163.9	8156.2	8152.3	8152.3	8148.4	8152.3	8175.6	8179.5	8167.8
5°	8144.6	8152.3	8148.4	8140.7	8136.8	8136.8	8132.9	8129.1	8148.4	8156.2	8152.3
7.5°	8113.6	8117.4	8113.6	8109.7	8113.6	8109.7	8098.0	8090.3	8105.8	8105.8	8101.9
10°	8059.3	8067.0	8063.2	8067.0	8074.8	8074.8	8059.3	8043.8	8047.7	8039.9	8039.9
12.5°	7993.4	8005.0	8008.9	8024.4	8043.8	8067.0	8032.1	7997.3	7989.5	7985.6	7981.8
15°	7950.7	7962.4	7977.9	7993.4	8028.3	8078.7	8028.3	7974.0	7958.5	7943.0	7935.2
17.5°	7939.1	7954.6	7977.9	8001.1	8047.7	8098.0	8055.4	8001.1	7962.4	7939.1	7931.4
20°	7970.1	7981.8	8016.6	8059.3	8125.2	8175.6	8132.9	8074.8	8016.6	7981.8	7970.1
22.5°	8032.1	8051.5	8094.2	8171.7	8264.7	8338.4	8280.2	8183.3	8090.3	8043.8	8028.3
25°	8167.8	8183.3	8233.7	8338.4	8446.9	8516.7	8454.7	8342.3	8214.3	8152.3	8132.9
27.5°	8373.3	8396.5	8450.8	8574.9	8664.0	8702.8	8660.1	8582.6	8489.6	8423.7	8408.2
30°	8664.0	8691.2	8772.6	8904.4	8962.5	8985.8	8966.4	8916.0	8850.1	8780.3	8764.8
32.5°	9055.5	9071.1	9164.1	9288.1	9342.4	9350.2	9326.9	9303.6	9195.1	9078.8	9071.1
35°	9493.6	9520.7	9633.1	9780.5	9830.9	9834.7	9788.2	9753.3	9625.4	9532.4	9532.4
37.5°	10075.1	10086.7	10195.2	10361.9	10416.2	10400.7	10377.4	10346.4	10210.8	10090.6	10094.5
40°	10757.3	10780.6	10873.6	11067.5	11067.5	11048.1	11063.6	11040.3	10904.6	10788.4	10792.2
42.5°	11567.5	11579.2	11691.6	11897.0	11881.5	11842.8	11858.3	11827.3	11742.0	11610.2	11563.7
45°	12432.0	12478.5	12672.3	12870.0	12839.0	12715.0	12777.0	12769.3	12691.7	12494.0	12505.6
47.5°	13474.8	13552.3	13738.4	13974.9	13940.0	13746.1	13815.9	13862.4	13753.9	13536.8	13498.0
50°	14649.4	14699.8	14975.0	15196.0	15164.9	14959.5	15118.4	15126.2	14854.8	14548.6	14548.6
52.5°	15901.5	15951.9	16324.0	16669.0	16688.4	16389.9	16517.8	16510.1	16068.2	15665.0	15587.5
55°	17304.8	17328.0	17808.7	18316.6	18425.1	18134.4	18149.9	17994.8	17421.1	16952.0	16909.4
57.5°	18754.6	18839.9	19371.0	20030.0	20351.7	20173.4	20092.0	19677.2	19122.9	18584.0	18556.9
60°	20359.5	20363.4	21053.4	21832.6	22483.8	22604.0	22270.6	21716.3	20999.1	20285.8	20254.8
62.5°	21472.0	21638.7	22510.9	23829.0	24995.8	25670.3	24790.3	23627.4	22216.3	21065.0	20948.7
65°	21700.8	21813.2	23142.8	25375.7	27759.8	29213.4	27178.3	24705.1	22297.7	20762.6	20685.1
67.5°	19851.7	19971.8	21762.8	25189.6	29698.0	32679.1	28728.9	24185.6	20917.7	19018.2	18867.0
70°	15354.9	15490.6	17704.1	22173.7	29267.7	33768.4	27624.1	21096.0	17250.5	15199.8	14924.6
72.5°	8163.9	8664.0	10555.8	15219.2	23755.3	29073.9	22650.5	15393.7	11125.6	9094.3	8729.9
75°	2981.0	3043.1	4097.5	6749.0	13819.8	19936.9	14350.9	7342.1	4221.5	3260.2	3093.5
77.5°	1232.7	1228.9	1349.0	2039.0	5020.1	10210.8	5601.6	2155.3	1345.2	1244.4	1228.9
80°	728.8	728.8	802.4	849.0	1321.9	3081.8	1477.0	961.4	806.3	736.5	748.2
82.5°	325.6	345.0	507.8	535.0	639.6	845.1	713.3	612.5	527.2	364.4	329.5
85°	178.3	155.1	267.5	279.1	306.2	314.0	337.3	333.4	306.2	178.3	182.2
87.5°	34.9	42.6	77.5	58.1	65.9	58.1	77.5	108.5	112.4	62.0	50.4
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)