

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: P455589

Luminaire Tested: **GALN-SA6D-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47329 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

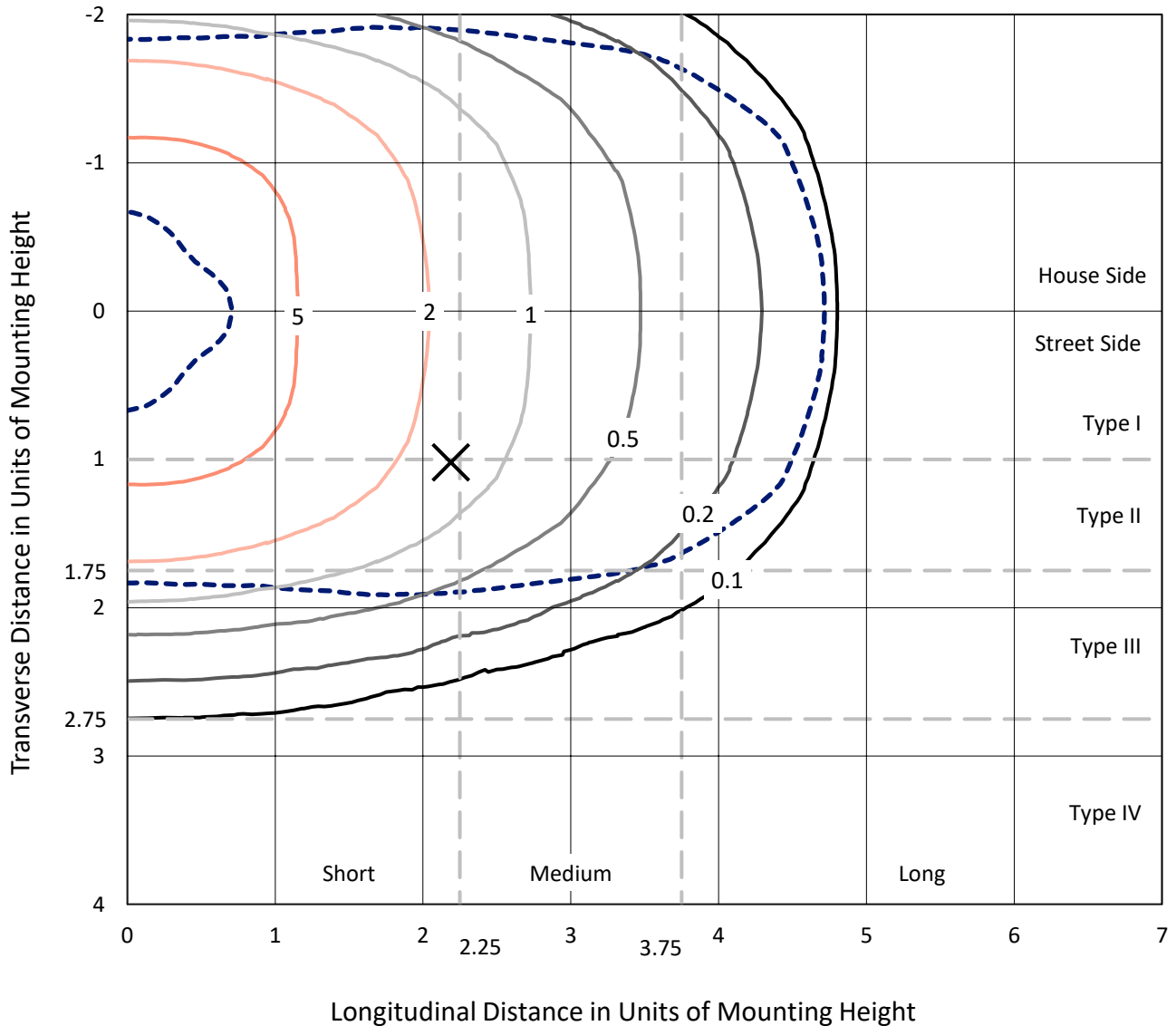
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

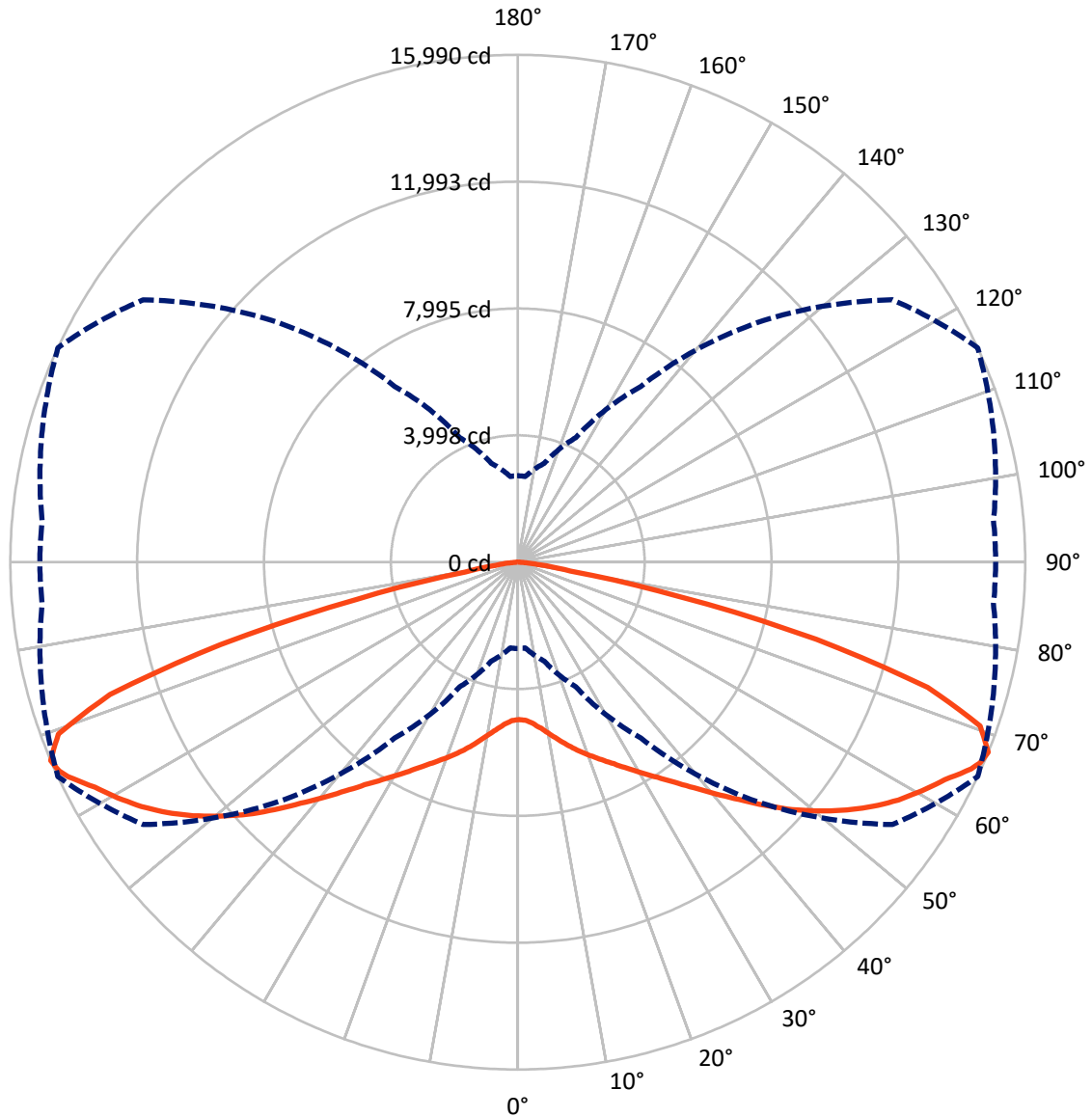
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23664.5	0.0	23664.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23664.5	0.0	23664.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47329.0	0.0	47329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.9	1.0
10°-20°	1636.4	3.5
20°-30°	3200.9	6.8
30°-40°	5444.3	11.5
40°-50°	8616.7	18.2
50°-60°	11425.5	24.1
60°-70°	10777.8	22.8
70°-80°	5328.0	11.3
80°-90°	410.6	0.9
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°	47329.0	100.0
0°-180°	47329.0	100.0

Coefficient of Utilization



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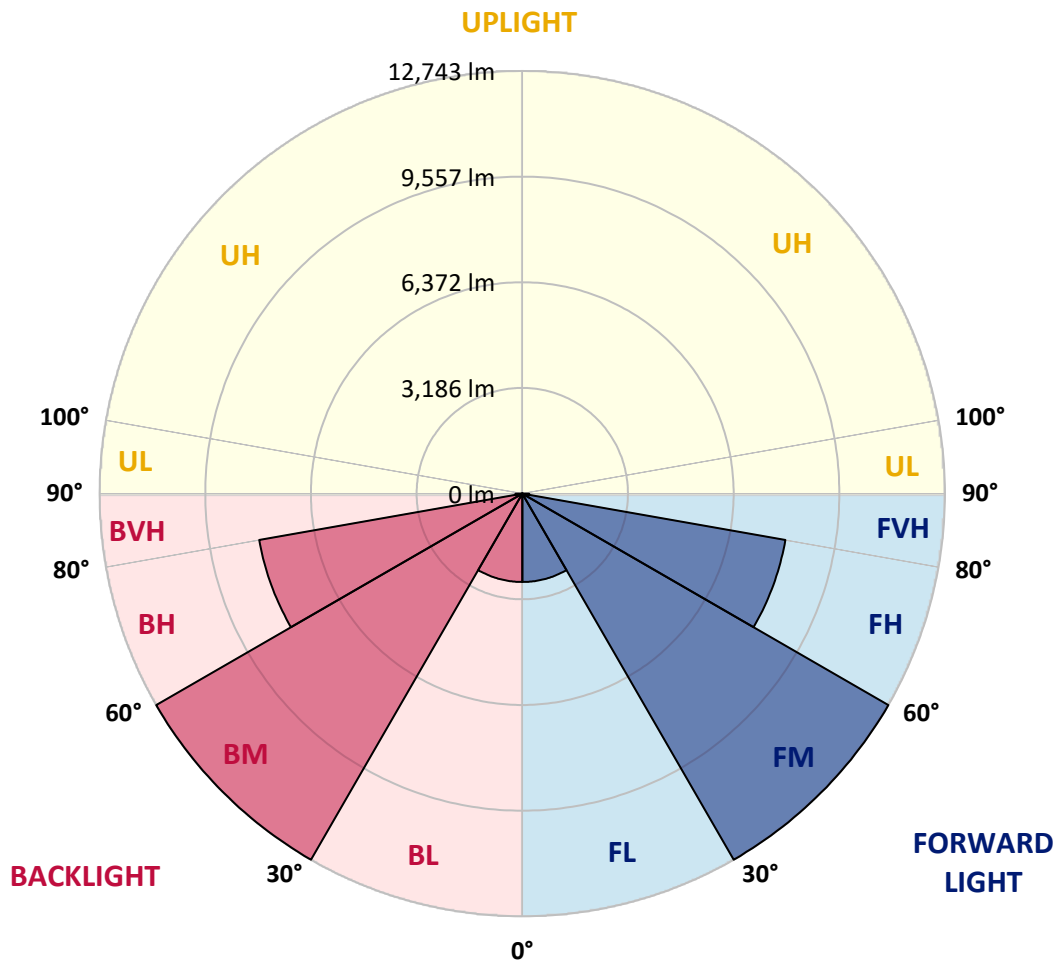
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2663.1	5.6			
FM	(30°-60°)	12743.2	26.9			
FH	(60°-80°)	8052.9	17.0			G4/12000
FVH	(80°-90°)	205.3	0.4			G2/225
BL	(0°-30°)	2663.1	5.6	B4/5000		
BM	(30°-60°)	12743.2	26.9	B5		
BH	(60°-80°)	8052.9	17.0	B5		G5
BVH	(80°-90°)	205.3	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4957.3	4957.3	4957.3	4957.3	4957.3	4957.3	4957.3	4957.3	4957.3	4957.3	4957.3
2.5°	4931.9	4937.0	4942.1	4949.7	4959.8	4975.0	4985.2	4992.8	5013.1	5015.6	5013.1
5°	4914.2	4919.3	4931.9	4954.8	4987.7	5033.4	5068.9	5112.0	5144.9	5167.8	5162.7
7.5°	4911.7	4921.8	4942.1	4990.3	5053.7	5132.3	5213.4	5286.9	5350.3	5401.0	5393.4
10°	4952.2	4964.9	4997.9	5068.9	5167.8	5281.9	5396.0	5505.0	5596.3	5662.2	5685.0
12.5°	5020.7	5030.8	5091.7	5198.2	5340.2	5482.2	5611.5	5745.9	5872.7	5984.3	5984.3
15°	5139.9	5157.6	5233.7	5388.4	5563.3	5728.1	5860.0	6002.0	6138.9	6265.7	6303.8
17.5°	5304.7	5330.0	5444.1	5641.9	5865.1	6017.2	6141.5	6258.1	6377.3	6499.0	6516.8
20°	5530.4	5555.7	5707.9	5946.2	6209.9	6392.5	6476.2	6504.1	6562.4	6679.0	6694.3
22.5°	5837.2	5862.5	6032.4	6301.2	6595.4	6793.1	6828.6	6762.7	6747.5	6838.8	6848.9
25°	6184.6	6207.4	6402.6	6691.7	6996.0	7211.5	7201.4	7039.1	6947.8	7003.6	7018.8
27.5°	6575.1	6608.0	6805.8	7105.0	7434.7	7624.9	7594.4	7358.6	7163.4	7153.2	7158.3
30°	7074.6	7110.1	7297.7	7584.3	7908.9	8083.8	8020.4	7703.5	7401.7	7300.3	7300.3
32.5°	7602.0	7690.8	7881.0	8180.2	8433.7	8560.5	8464.2	8083.8	7683.2	7541.2	7533.6
35°	8289.2	8337.4	8525.0	8816.6	9006.8	9105.7	8920.6	8512.3	8050.9	7883.5	7860.7
37.5°	8961.2	9001.7	9219.8	9498.7	9729.5	9724.4	9473.4	9022.0	8507.3	8319.6	8304.4
40°	9648.3	9691.4	9939.9	10196.1	10426.8	10406.5	10102.2	9597.6	9049.9	8839.5	8880.0
42.5°	10244.2	10292.4	10573.9	10939.0	11146.9	11141.9	10789.4	10221.4	9650.9	9463.2	9498.7
45°	10786.9	10830.0	11157.1	11575.5	11879.8	11917.8	11532.4	10931.4	10345.7	10104.8	10114.9
47.5°	11169.8	11250.9	11593.2	12072.5	12485.8	12620.2	12242.4	11654.1	10979.6	10728.6	10743.8
50°	11461.4	11512.1	11884.8	12430.0	12952.4	13231.3	12927.0	12323.5	11613.5	11347.3	11382.8
52.5°	11496.9	11557.7	11963.4	12592.3	13261.7	13685.2	13535.6	12977.7	12260.1	11986.3	12062.3
55°	11207.8	11243.3	11727.6	12490.9	13383.4	14022.4	14060.5	13586.3	12876.3	12668.4	12719.1
57.5°	10383.7	10475.0	11088.6	12016.7	13216.1	14202.5	14453.5	14139.1	13500.1	13294.7	13375.8
60°	9032.2	9123.5	9739.6	10916.2	12584.7	14118.8	14778.1	14628.5	14065.5	13900.7	13943.8
62.5°	7077.1	7069.5	7832.8	9275.6	11329.5	13708.0	15019.0	15100.1	14623.4	14415.5	14481.4
65°	4587.1	4609.9	5347.8	6902.2	9435.3	12663.3	15072.2	15701.1	15171.1	14856.7	14904.8
66°	3689.4	3757.9	4384.2	5816.9	8469.2	11978.7	14912.5	15878.6	15338.5	14958.1	14980.9
67.5°	2723.3	2710.7	3225.4	4331.0	6762.7	10677.8	14412.9	15990.1	15528.6	15049.4	15059.5
70°	1554.4	1551.8	1734.4	2378.5	3976.0	7518.4	12148.5	15455.1	15914.1	15379.0	15351.1
72.5°	1136.0	1128.4	1153.7	1313.5	1939.8	3795.9	8380.5	13507.7	15716.3	15325.8	15247.2
75°	953.4	948.4	943.3	963.6	1087.8	1719.2	4447.6	9716.8	13637.0	14385.0	14303.9
77.5°	778.5	778.5	781.0	775.9	781.0	905.2	1843.5	5208.3	8304.4	9270.5	9496.2
80°	608.6	606.0	649.1	631.4	590.8	580.7	816.5	1676.1	2756.3	2741.1	2261.8
82.5°	448.8	418.4	494.5	481.8	436.1	370.2	476.7	715.1	920.5	598.4	443.7
85°	284.0	281.5	349.9	319.5	266.2	175.0	228.2	306.8	380.4	230.7	187.6
87.5°	50.7	48.2	111.6	81.1	81.1	50.7	63.4	83.7	124.2	86.2	63.4
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)