

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: P529625

Luminaire Tested: **GALN-SA4D-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18366 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

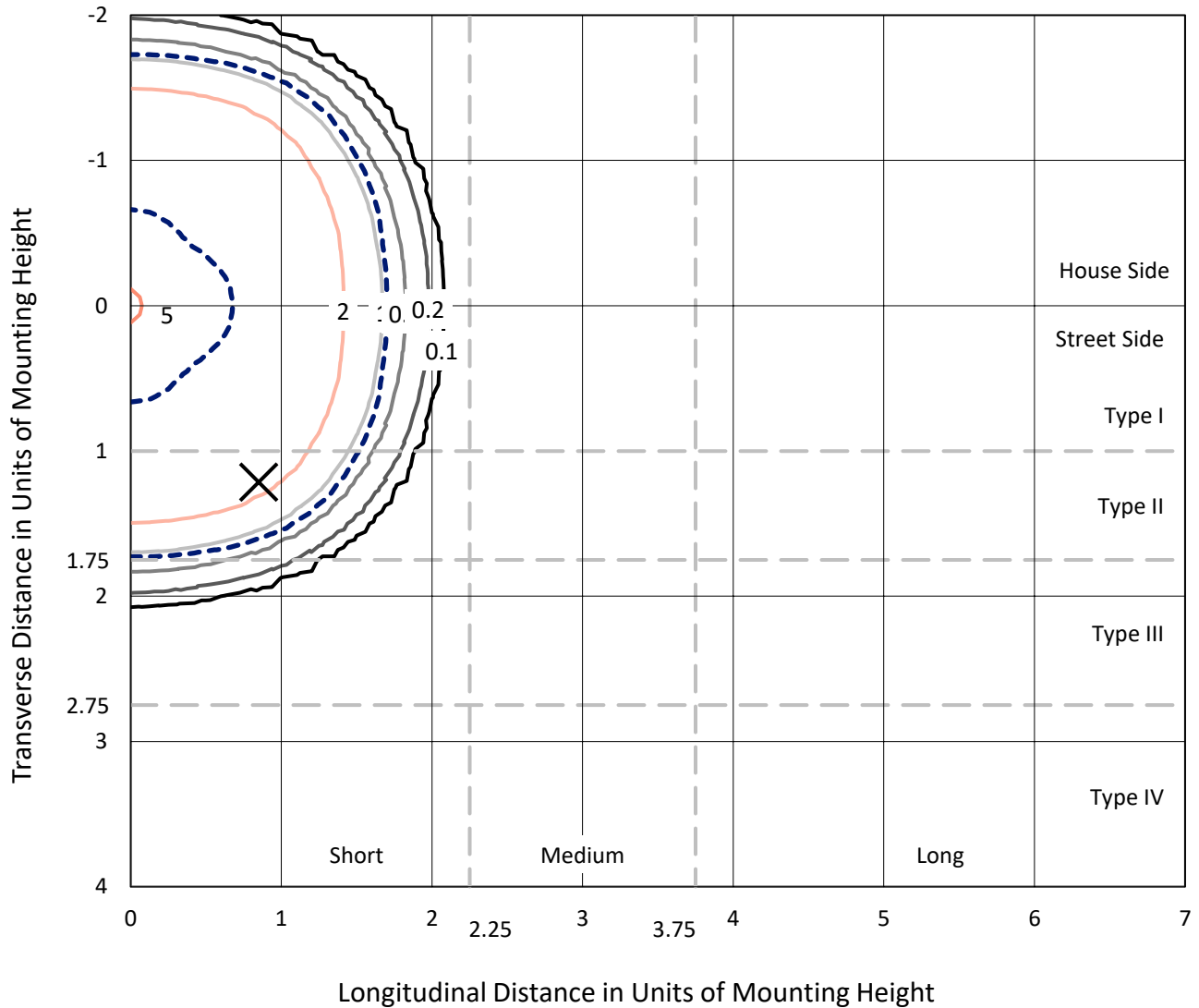
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

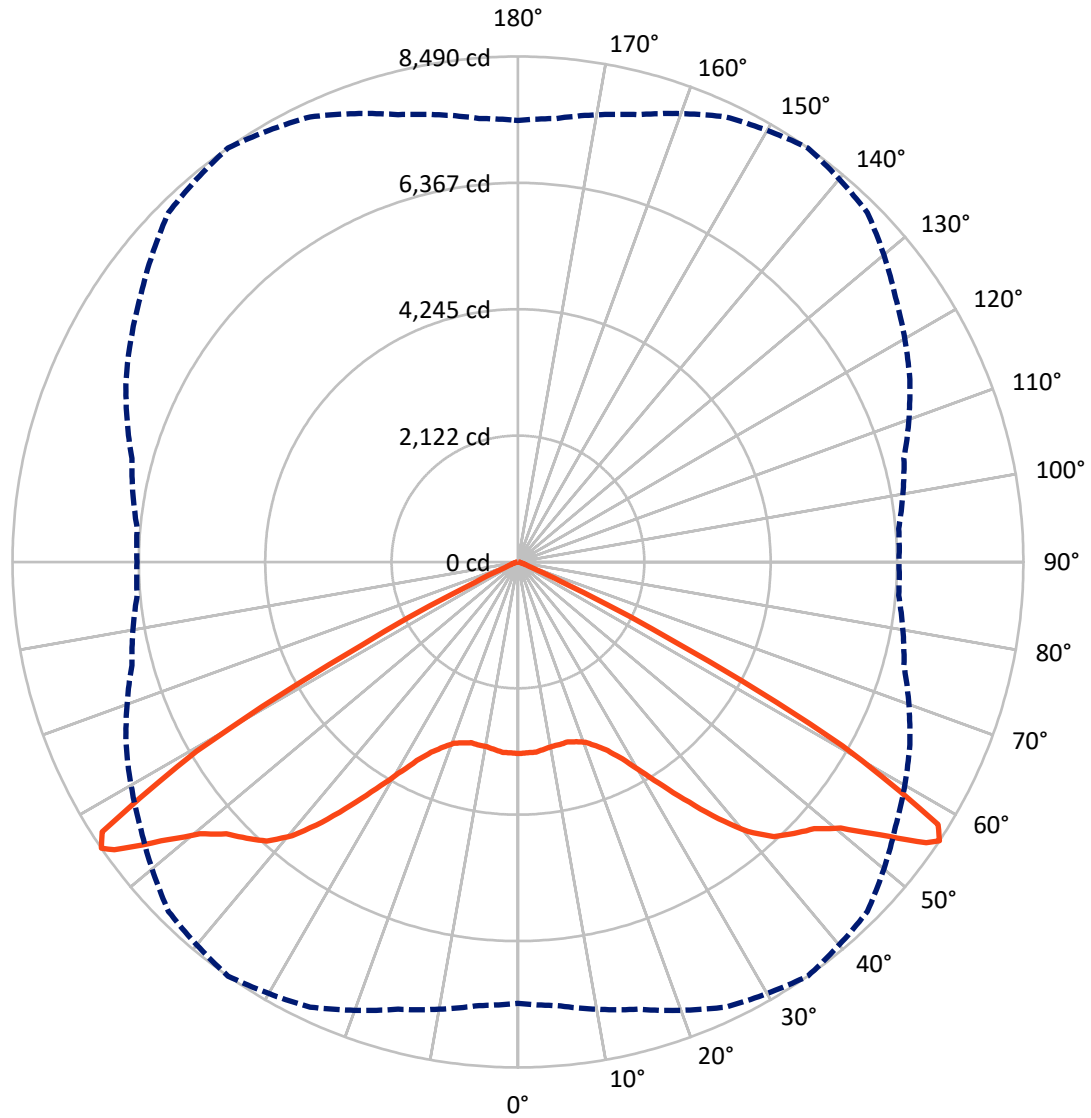
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9183.0	0.0	9183.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9183.0	0.0	9183.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18366.0	0.0	18366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	1.6
10°-20°	883.0	4.8
20°-30°	1599.0	8.7
30°-40°	2965.2	16.1
40°-50°	4867.1	26.5
50°-60°	6270.3	34.1
60°-70°	1381.9	7.5
70°-80°	80.2	0.4
80°-90°	16.9	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°	18366.0	100.0
0°-180°	18366.0	100.0

Coefficient of Utilization



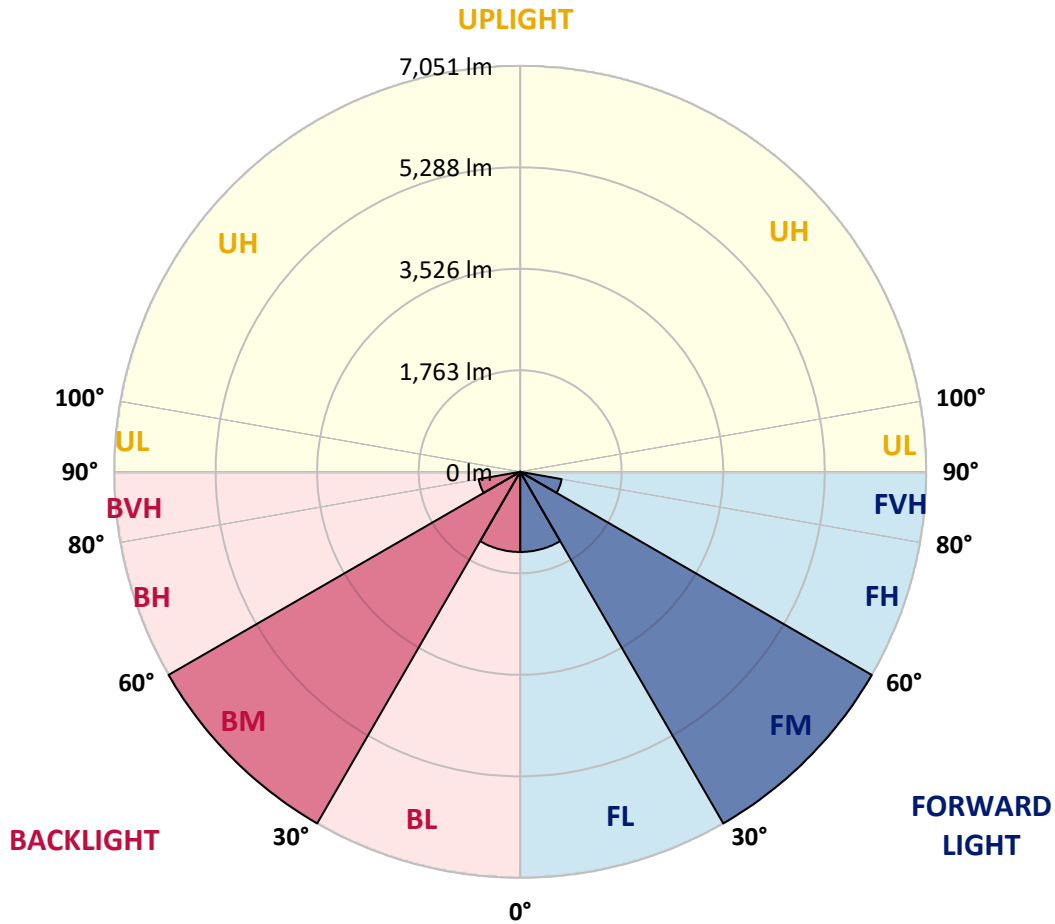
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.2	7.6			
FM (30°-60°)	7051.3	38.4			
FH (60°-80°)	731.0	4.0			G1/1800
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	1392.2	7.6	B3/2500		
BM (30°-60°)	7051.3	38.4	B4/8500		
BH (60°-80°)	731.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1
2.5°	3224.8	3224.8	3228.1	3231.4	3208.1	3198.2	3201.5	3194.8	3191.5	3201.5	3201.5
5°	3214.8	3214.8	3204.8	3208.1	3208.1	3178.2	3178.2	3184.8	3184.8	3164.9	3158.2
7.5°	3188.2	3181.5	3168.2	3184.8	3174.9	3174.9	3151.6	3134.9	3128.3	3141.6	3128.3
10°	3131.6	3134.9	3148.2	3154.9	3148.2	3168.2	3128.3	3105.0	3081.7	3071.7	3071.7
12.5°	3105.0	3124.9	3105.0	3121.6	3144.9	3128.3	3105.0	3088.3	3055.0	3041.7	3041.7
15°	3101.6	3115.0	3121.6	3144.9	3134.9	3141.6	3095.0	3075.0	3025.1	3001.8	2991.8
17.5°	3098.3	3115.0	3124.9	3168.2	3174.9	3178.2	3141.6	3081.7	3038.4	3015.1	2991.8
20°	3134.9	3141.6	3161.5	3204.8	3231.4	3278.0	3211.5	3148.2	3055.0	3028.4	3018.4
22.5°	3181.5	3214.8	3234.8	3281.3	3351.2	3391.2	3304.6	3224.8	3128.3	3095.0	3055.0
25°	3331.3	3324.6	3357.9	3454.4	3511.0	3540.9	3471.0	3354.6	3228.1	3188.2	3194.8
27.5°	3517.6	3524.3	3554.2	3660.7	3743.9	3790.5	3707.3	3554.2	3431.1	3364.5	3357.9
30°	3760.6	3753.9	3787.2	3930.3	4080.1	4149.9	4003.5	3823.8	3704.0	3617.5	3637.4
32.5°	4016.8	4020.2	4113.3	4243.1	4486.1	4622.5	4386.2	4166.6	3986.9	3927.0	3897.0
35°	4396.2	4412.8	4486.1	4685.7	4955.3	5131.7	4872.1	4609.2	4402.9	4293.0	4306.4
37.5°	4865.4	4848.8	4971.9	5188.3	5471.1	5600.9	5381.3	5081.8	4872.1	4798.9	4845.5
40°	5364.6	5381.3	5444.5	5640.9	5957.0	6043.5	5717.4	5554.3	5371.3	5334.7	5391.3
42.5°	5863.8	5853.8	5900.4	6076.8	6306.4	6246.5	6053.5	5957.0	5827.2	5754.0	5830.6
45°	6229.9	6213.3	6299.8	6419.6	6502.8	6389.6	6303.1	6269.8	6203.3	6123.4	6193.3
47.5°	6586.0	6572.7	6655.9	6689.2	6695.8	6546.1	6562.7	6622.6	6456.2	6289.8	6369.7
50°	6888.8	6865.5	6968.7	7041.9	7025.3	6785.7	6845.6	6785.7	6526.1	6329.7	6299.8
52.5°	7394.7	7404.7	7514.5	7647.6	7607.7	7408.0	7321.5	7048.6	6715.8	6539.4	6436.2
55°	7714.2	7664.2	7853.9	8276.6	8323.2	8116.8	7734.1	7331.5	6832.3	6615.9	6589.3
56°	7414.7	7477.9	7777.4	8250.0	8489.6	8299.9	7744.1	7261.6	6712.5	6419.6	6399.6
57.5°	6652.6	6619.3	7025.3	7670.9	8323.2	8243.3	7471.2	6762.4	6123.4	5793.9	5754.0
60°	4140.0	4236.5	4592.6	5391.3	6263.2	6303.1	5537.7	4928.7	4183.2	3890.4	3960.2
62.5°	1620.7	1537.5	1760.5	2356.2	2955.2	3088.3	2798.8	2326.2	1910.2	1620.7	1600.7
65°	376.1	366.1	412.7	569.1	795.4	921.8	875.2	629.0	462.6	439.3	406.0
67.5°	213.0	213.0	203.0	203.0	223.0	236.3	226.3	223.0	233.0	242.9	239.6
70°	149.8	146.4	139.8	143.1	136.4	136.4	146.4	163.1	176.4	176.4	179.7
72.5°	89.9	89.9	89.9	99.8	99.8	99.8	109.8	123.1	126.5	123.1	119.8
75°	39.9	39.9	46.6	56.6	63.2	66.6	76.5	83.2	89.9	83.2	76.5
77.5°	10.0	10.0	16.6	23.3	30.0	36.6	49.9	59.9	63.2	59.9	49.9
80°	3.3	3.3	6.7	16.6	30.0	36.6	49.9	53.2	56.6	49.9	39.9
82.5°	3.3	3.3	6.7	16.6	23.3	30.0	39.9	46.6	49.9	43.3	39.9
85°	0.0	3.3	6.7	13.3	20.0	26.6	26.6	20.0	16.6	10.0	13.3
87.5°	0.0	0.0	3.3	3.3	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)