

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: P528690

Luminaire Tested: **GALN-SA3D-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20384 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

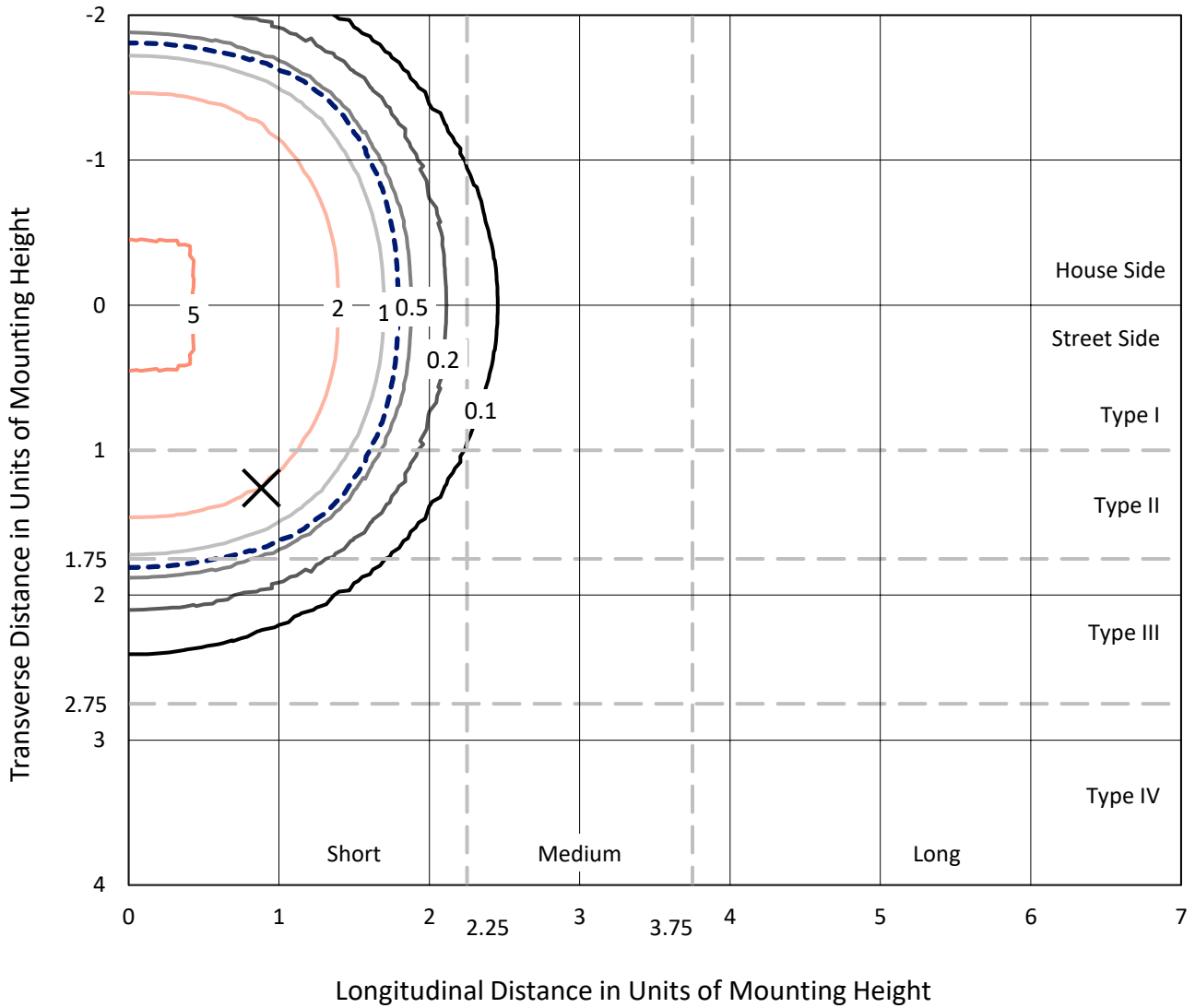
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

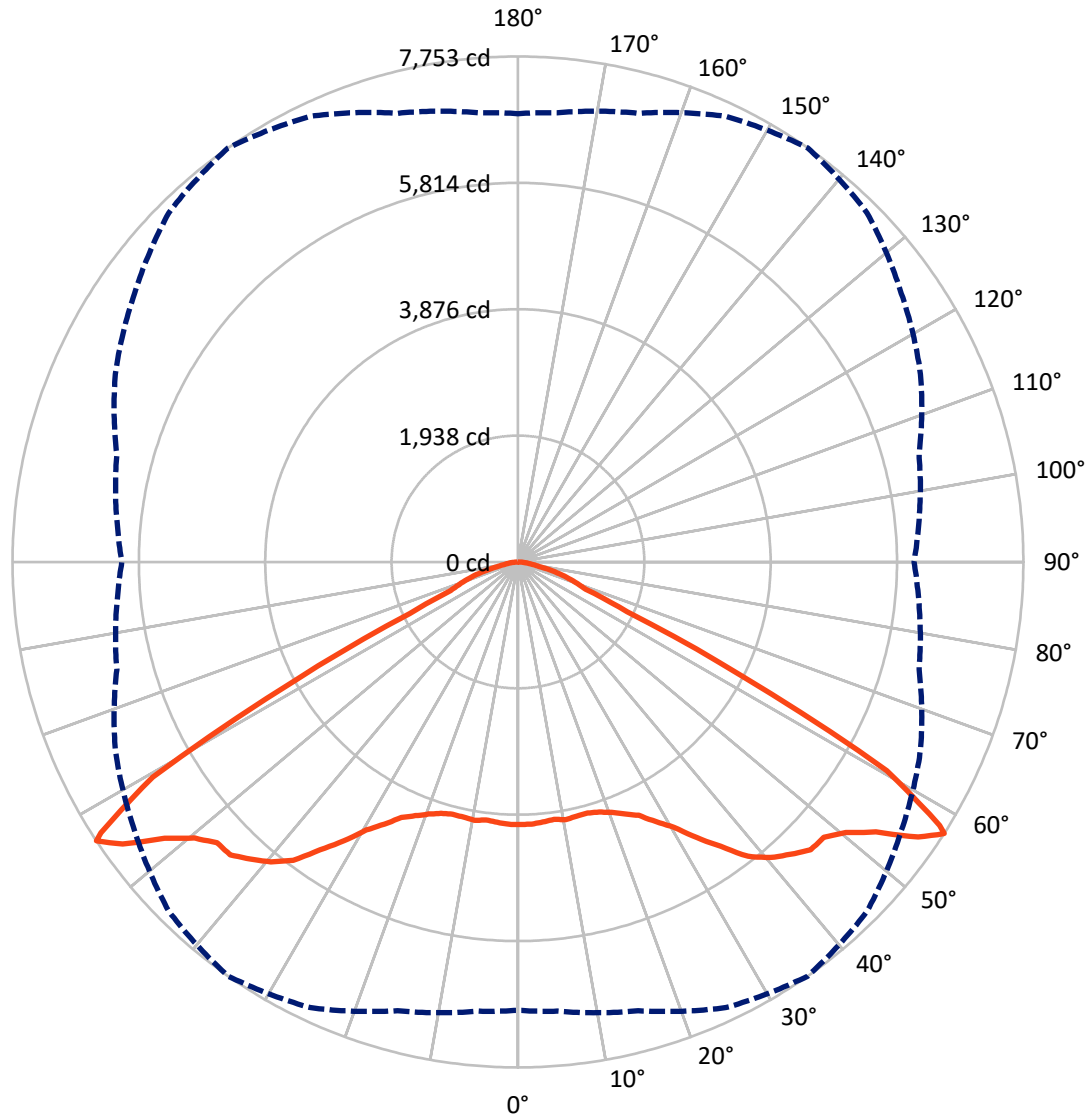
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10192.0	0.0	10192.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10192.0	0.0	10192.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20384.0	0.0	20384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	1.9
10°-20°	1130.3	5.5
20°-30°	1974.1	9.7
30°-40°	3234.6	15.9
40°-50°	4742.8	23.3
50°-60°	5973.9	29.3
60°-70°	2246.7	11.0
70°-80°	597.4	2.9
80°-90°	102.4	0.5
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°	20384.0	100.0
0°-180°	20384.0	100.0



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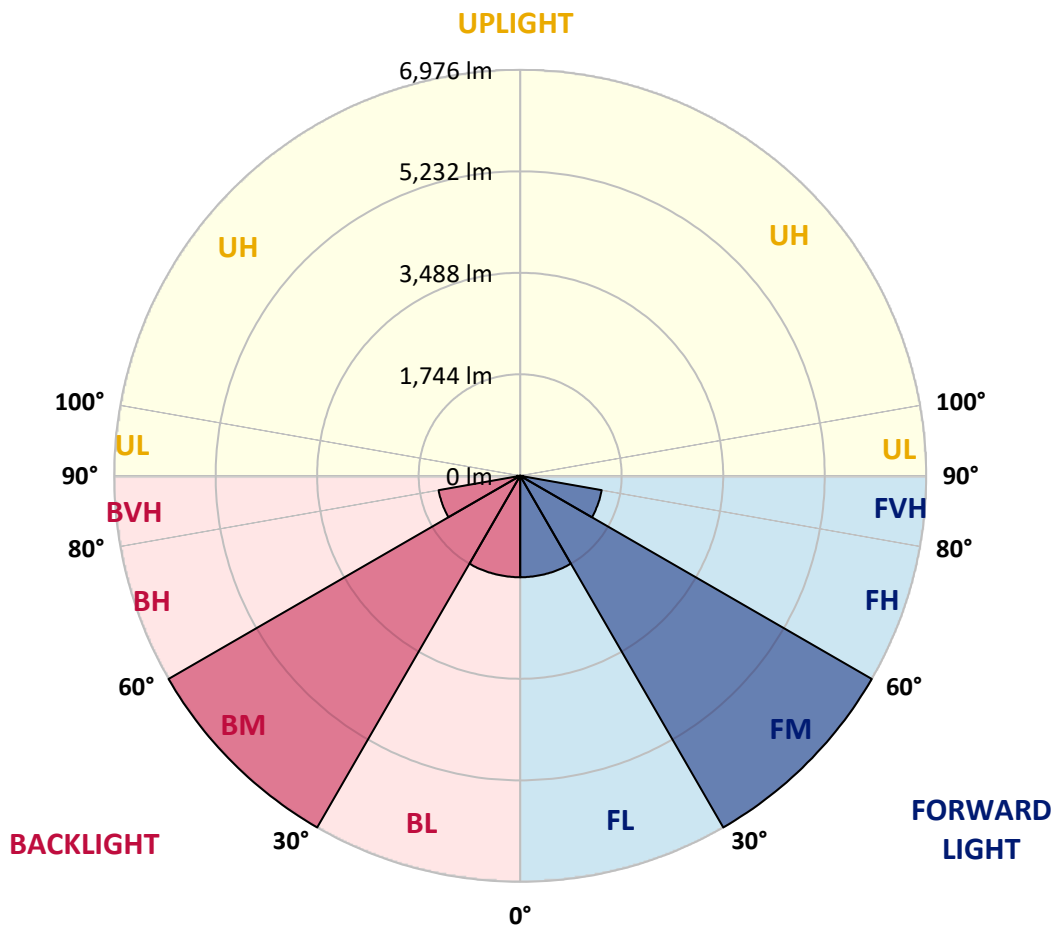
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.1	8.6			
FM (30°-60°)	6975.7	34.2			
FH (60°-80°)	1422.1	7.0			G1/1800
FVH (80°-90°)	51.2	0.3			G1/100
BL (0°-30°)	1743.1	8.6	B3/2500		
BM (30°-60°)	6975.7	34.2	B4/8500		
BH (60°-80°)	1422.1	7.0	B3/2500		G1/1800
BVH (80°-90°)	51.2	0.3			G1/100
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°	4025.7	4025.7	4025.7	4025.7	4025.7	4025.7	4025.7	4025.7	4025.7	4025.7	4025.7
2.5°	4005.6	4045.8	4028.2	4018.2	4025.7	4013.1	3993.0	4015.6	4010.6	3990.5	3983.0
5°	3995.6	4025.7	4005.6	4025.7	4005.6	4040.8	4030.7	3993.0	4038.2	3995.6	4010.6
7.5°	3988.0	3998.1	4003.1	3993.0	3985.5	4028.2	4005.6	3988.0	3962.9	3955.4	3967.9
10°	3970.4	3995.6	3957.9	4008.1	4018.2	3988.0	3988.0	3955.4	3935.3	3922.7	3965.4
12.5°	4015.6	3973.0	3967.9	3993.0	4000.6	4013.1	3978.0	3960.4	3922.7	3927.7	3920.2
15°	3962.9	3980.5	3983.0	3988.0	3995.6	4025.7	3993.0	3955.4	3940.3	3887.6	3892.6
17.5°	3983.0	3965.4	3983.0	4040.8	4030.7	4053.3	4018.2	3960.4	3925.2	3895.1	3935.3
20°	4018.2	4010.6	4018.2	4088.5	4101.0	4121.1	4091.0	4038.2	3970.4	3935.3	3955.4
22.5°	4055.8	4050.8	4055.8	4123.6	4196.5	4221.6	4191.4	4068.4	4033.2	3967.9	3945.3
25°	4123.6	4128.7	4181.4	4256.7	4304.4	4352.2	4296.9	4209.0	4096.0	4055.8	4008.1
27.5°	4274.3	4286.9	4317.0	4427.5	4510.4	4553.1	4475.2	4354.7	4284.4	4201.5	4188.9
30°	4460.2	4460.2	4512.9	4608.3	4721.3	4786.6	4691.2	4548.1	4462.7	4417.5	4389.8
32.5°	4706.3	4678.6	4698.7	4867.0	5042.8	5098.0	4970.0	4794.2	4658.5	4598.3	4578.2
35°	4917.2	4934.8	4980.0	5160.8	5356.7	5484.8	5283.9	5055.3	4917.2	4862.0	4851.9
37.5°	5191.0	5221.1	5243.7	5492.3	5728.4	5776.1	5582.7	5399.4	5231.1	5185.9	5160.8
40°	5577.7	5557.6	5565.1	5748.5	5961.9	5992.1	5801.2	5670.6	5532.5	5504.9	5504.9
42.5°	5896.6	5874.0	5899.2	5967.0	6130.2	6107.6	6002.1	5906.7	5848.9	5818.8	5848.9
45°	6090.0	6085.0	6130.2	6180.4	6295.9	6220.6	6137.7	6152.8	6097.6	6047.3	6044.8
47.5°	6301.0	6268.3	6323.6	6398.9	6311.0	6275.9	6270.8	6303.5	6285.9	6198.0	6170.4
50°	6403.9	6391.4	6479.3	6567.2	6519.5	6439.1	6456.7	6509.4	6283.4	6165.4	6097.6
52.5°	6680.2	6682.7	6851.0	6898.7	6878.6	6760.5	6798.2	6655.1	6388.9	6223.1	6230.7
55°	7114.6	7097.1	7285.4	7426.1	7448.7	7298.0	7117.2	6916.3	6582.2	6414.0	6363.8
57°	6876.1	6916.3	7124.7	7541.6	7752.5	7574.2	7179.9	6813.3	6368.8	6165.4	6074.9
57.5°	6557.1	6622.4	6984.1	7403.5	7624.5	7609.4	7102.1	6622.4	6225.6	5909.2	5916.7
60°	4804.2	4816.8	5143.2	5808.7	6499.4	6514.4	5896.6	5261.3	4819.3	4475.2	4522.9
62.5°	2533.9	2591.7	2722.3	3257.2	3854.9	4000.6	3626.4	3299.9	2918.2	2657.0	2682.1
65°	1341.1	1333.5	1396.3	1547.0	1840.8	1916.2	1865.9	1607.3	1474.2	1431.5	1434.0
67.5°	1089.9	1102.5	1094.9	1102.5	1122.6	1155.2	1147.7	1157.7	1165.3	1177.8	1175.3
70°	924.2	924.2	929.2	931.7	931.7	946.8	964.4	997.0	999.5	1012.1	1017.1
72.5°	728.3	723.3	730.8	748.4	750.9	763.4	788.6	808.7	816.2	816.2	801.1
75°	494.7	499.8	509.8	524.9	539.9	562.5	582.6	595.2	600.2	592.7	585.1
77.5°	278.8	283.8	291.3	313.9	331.5	351.6	374.2	386.7	399.3	401.8	386.7
80°	165.7	165.7	178.3	195.9	216.0	236.1	256.2	271.2	276.2	276.2	268.7
82.5°	100.5	103.0	113.0	130.6	148.2	160.7	178.3	190.9	200.9	198.4	193.4
85°	52.7	52.7	62.8	77.9	90.4	103.0	103.0	95.4	90.4	77.9	72.8
87.5°	17.6	15.1	20.1	20.1	17.6	20.1	20.1	22.6	22.6	22.6	22.6
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)