

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: P454656

Luminaire Tested: **GALN-SA5D-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454656
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-SA5D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 40632 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

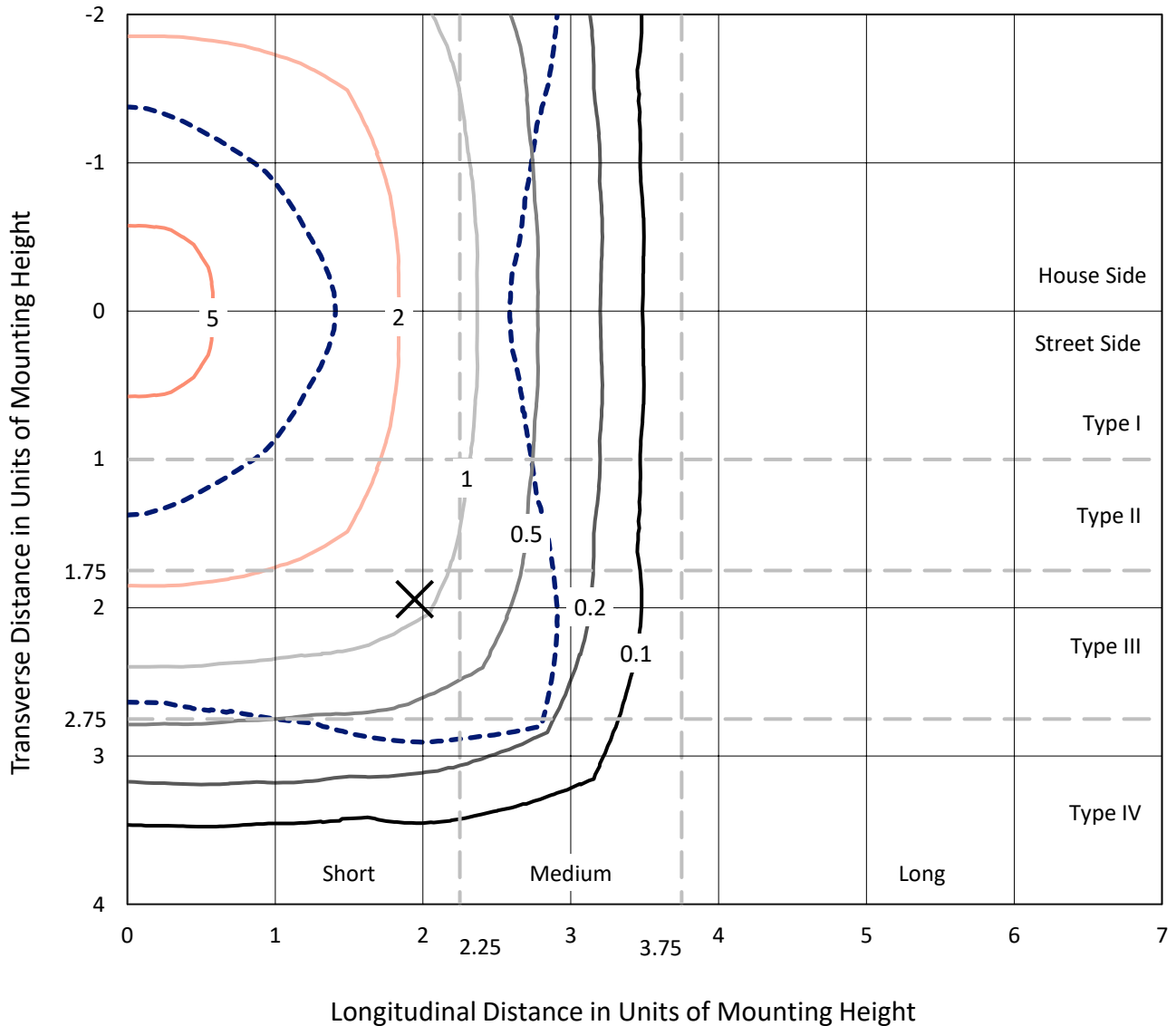
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454656
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Iso-Footcandle Lines of Horizontal Illumination

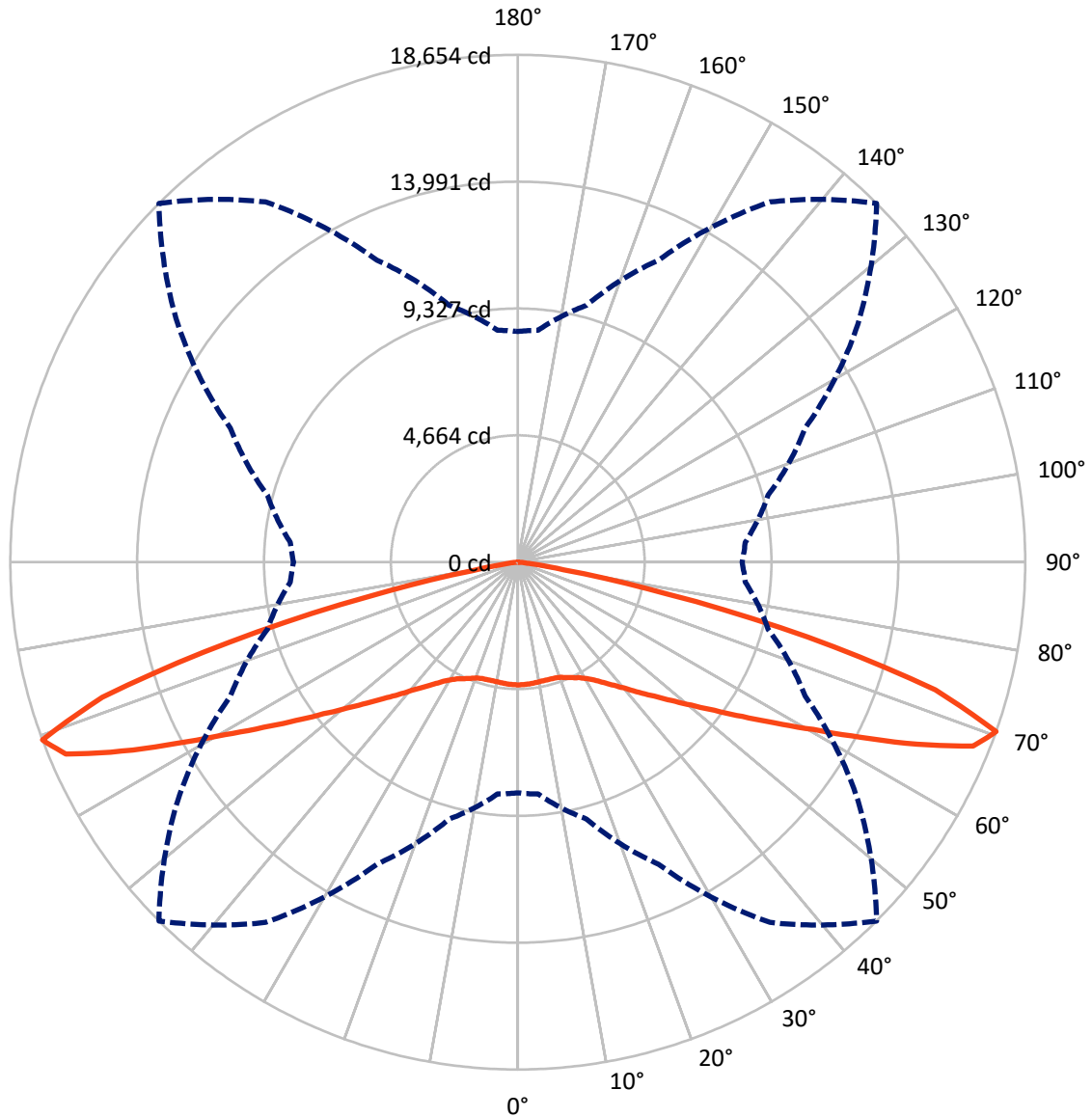
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P454656
CATALOG NUMBER: GALN-SA5D-740-U-5MQ

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20316.0	0.0	20316.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20316.0	0.0	20316.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40632.0	0.0	40632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.9	1.1
10°-20°	1255.6	3.1
20°-30°	2147.4	5.3
30°-40°	3408.3	8.4
40°-50°	5498.5	13.5
50°-60°	8946.2	22.0
60°-70°	12968.8	31.9
70°-80°	5752.5	14.2
80°-90°	226.9	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°	40632.0	100.0
0°-180°	40632.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454656

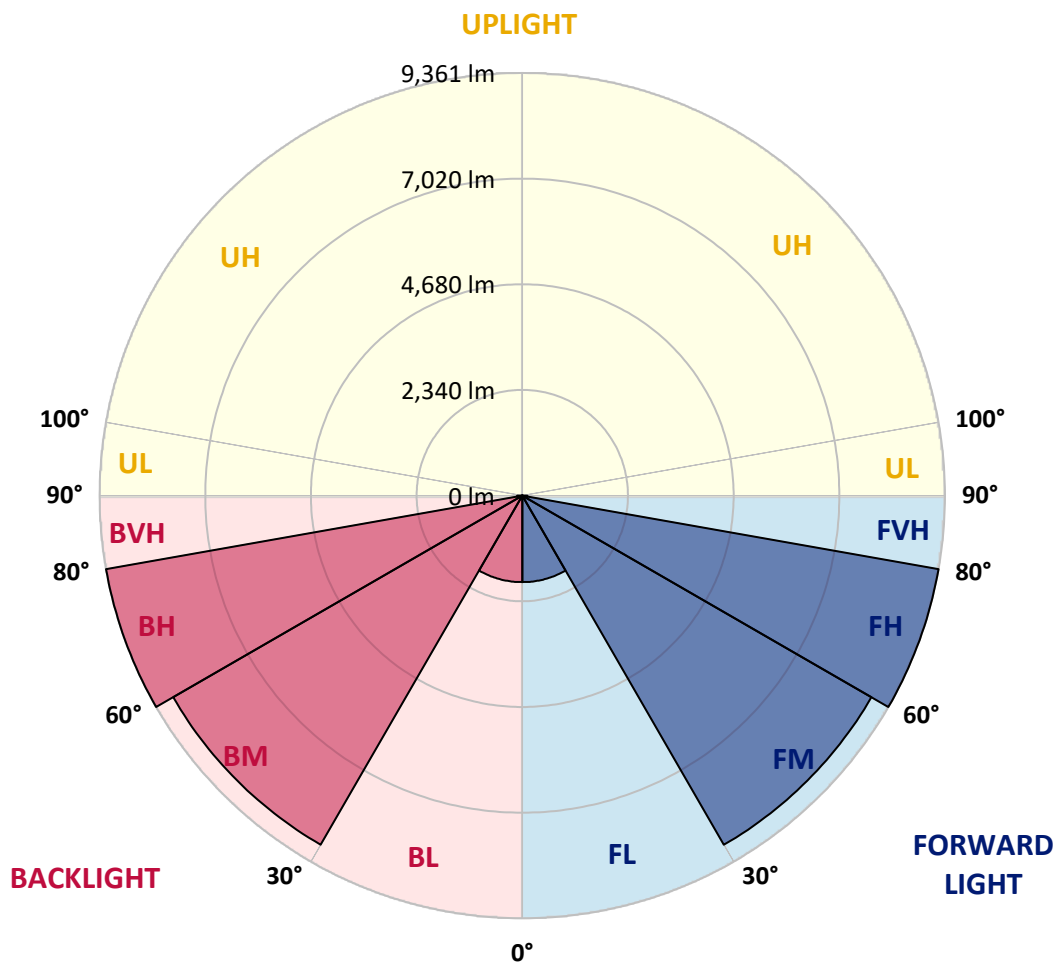
CATALOG NUMBER: GALN-SA5D-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.4	4.7			
FM (30°-60°)	8926.5	22.0			
FH (60°-80°)	9360.6	23.0			G4/12000
FVH (80°-90°)	113.4	0.3			G2/225
BL (0°-30°)	1915.4	4.7	B3/2500		
BM (30°-60°)	8926.5	22.0	B5		
BH (60°-80°)	9360.6	23.0	B5		G4/12000
BVH (80°-90°)	113.4	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0
2.5°	4512.0	4516.3	4509.9	4505.6	4503.4	4503.4	4501.3	4503.4	4516.3	4518.4	4512.0
5°	4499.1	4503.4	4501.3	4497.0	4494.9	4494.9	4492.7	4490.6	4501.3	4505.6	4503.4
7.5°	4482.0	4484.2	4482.0	4479.9	4482.0	4479.9	4473.4	4469.2	4477.7	4477.7	4475.6
10°	4452.0	4456.3	4454.2	4456.3	4460.6	4460.6	4452.0	4443.5	4445.6	4441.3	4441.3
12.5°	4415.6	4422.1	4424.2	4432.8	4443.5	4456.3	4437.0	4417.8	4413.5	4411.3	4409.2
15°	4392.1	4398.5	4407.1	4415.6	4434.9	4462.7	4434.9	4404.9	4396.4	4387.8	4383.5
17.5°	4385.6	4394.2	4407.1	4419.9	4445.6	4473.4	4449.9	4419.9	4398.5	4385.6	4381.4
20°	4402.8	4409.2	4428.5	4452.0	4488.4	4516.3	4492.7	4460.6	4428.5	4409.2	4402.8
22.5°	4437.0	4447.7	4471.3	4514.1	4565.5	4606.2	4574.1	4520.6	4469.2	4443.5	4434.9
25°	4512.0	4520.6	4548.4	4606.2	4666.2	4704.7	4670.5	4608.4	4537.7	4503.4	4492.7
27.5°	4625.5	4638.3	4668.3	4736.8	4786.1	4807.5	4784.0	4741.1	4689.7	4653.3	4644.8
30°	4786.1	4801.1	4846.1	4918.9	4951.0	4963.8	4953.1	4925.3	4888.9	4850.3	4841.8
32.5°	5002.4	5010.9	5062.3	5130.9	5160.8	5165.1	5152.3	5139.4	5079.5	5015.2	5010.9
35°	5244.4	5259.4	5321.5	5402.8	5430.7	5432.8	5407.1	5387.8	5317.2	5265.8	5265.8
37.5°	5565.6	5572.0	5632.0	5724.0	5754.0	5745.5	5732.6	5715.5	5640.5	5574.1	5576.3
40°	5942.5	5955.3	6006.7	6113.8	6113.8	6103.1	6111.6	6098.8	6023.8	5959.6	5961.7
42.5°	6390.0	6396.5	6458.6	6572.0	6563.5	6542.1	6550.6	6533.5	6486.4	6413.6	6387.9
45°	6867.6	6893.3	7000.3	7109.5	7092.4	7023.9	7058.2	7053.9	7011.0	6901.8	6908.3
47.5°	7443.6	7486.4	7589.2	7719.9	7700.6	7593.5	7632.1	7657.8	7597.8	7477.9	7456.5
50°	8092.5	8120.3	8272.3	8394.4	8377.3	8263.8	8351.6	8355.9	8206.0	8036.8	8036.8
52.5°	8784.1	8812.0	9017.6	9208.1	9218.9	9054.0	9124.6	9120.3	8876.2	8653.5	8610.7
55°	9559.3	9572.2	9837.7	10118.3	10178.2	10017.6	10026.2	9940.5	9623.6	9364.5	9340.9
57.5°	10360.2	10407.3	10700.7	11064.8	11242.5	11144.0	11099.0	10869.9	10563.7	10266.0	10251.0
60°	11246.8	11248.9	11630.1	12060.5	12420.3	12486.7	12302.5	11996.3	11600.1	11206.1	11189.0
62.5°	11861.4	11953.5	12435.3	13163.4	13807.9	14180.5	13694.4	13052.0	12272.5	11636.5	11572.3
65°	11987.7	12049.8	12784.3	14017.8	15334.8	16137.8	15013.6	13647.3	12317.5	11469.5	11426.7
67.5°	10966.3	11032.6	12022.0	13915.0	16405.5	18052.3	15870.1	13360.4	11555.2	10505.9	10422.3
70°	8482.2	8557.2	9779.9	12249.0	16167.8	18654.0	15259.8	11653.7	9529.4	8396.5	8244.5
72.5°	4509.9	4786.1	5831.1	8407.3	13122.7	16060.7	12512.4	8503.6	6145.9	5023.8	4822.5
75°	1646.8	1681.0	2263.5	3728.2	7634.2	11013.4	7927.6	4055.9	2332.0	1800.9	1708.9
77.5°	681.0	678.8	745.2	1126.4	2773.2	5640.5	3094.4	1190.6	743.1	687.4	678.8
80°	402.6	402.6	443.3	469.0	730.2	1702.4	815.9	531.1	445.4	406.9	413.3
82.5°	179.9	190.6	280.5	295.5	353.3	466.8	394.0	338.3	291.2	201.3	182.0
85°	98.5	85.7	147.8	154.2	169.2	173.5	186.3	184.2	169.2	98.5	100.6
87.5°	19.3	23.6	42.8	32.1	36.4	32.1	42.8	60.0	62.1	34.3	27.8
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)