

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: P531447

Luminaire Tested: **GALN-SA6D-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28700 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

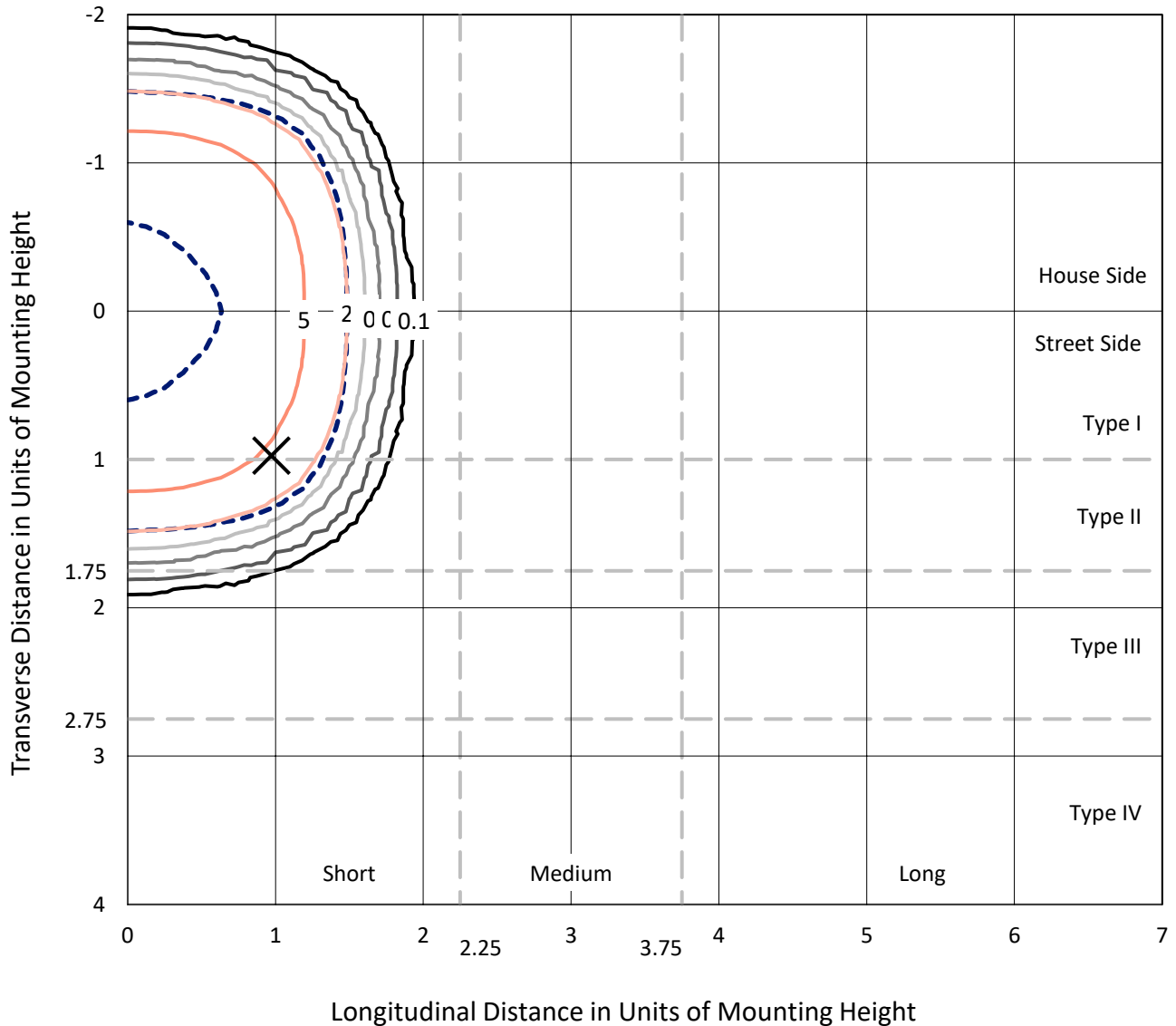
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

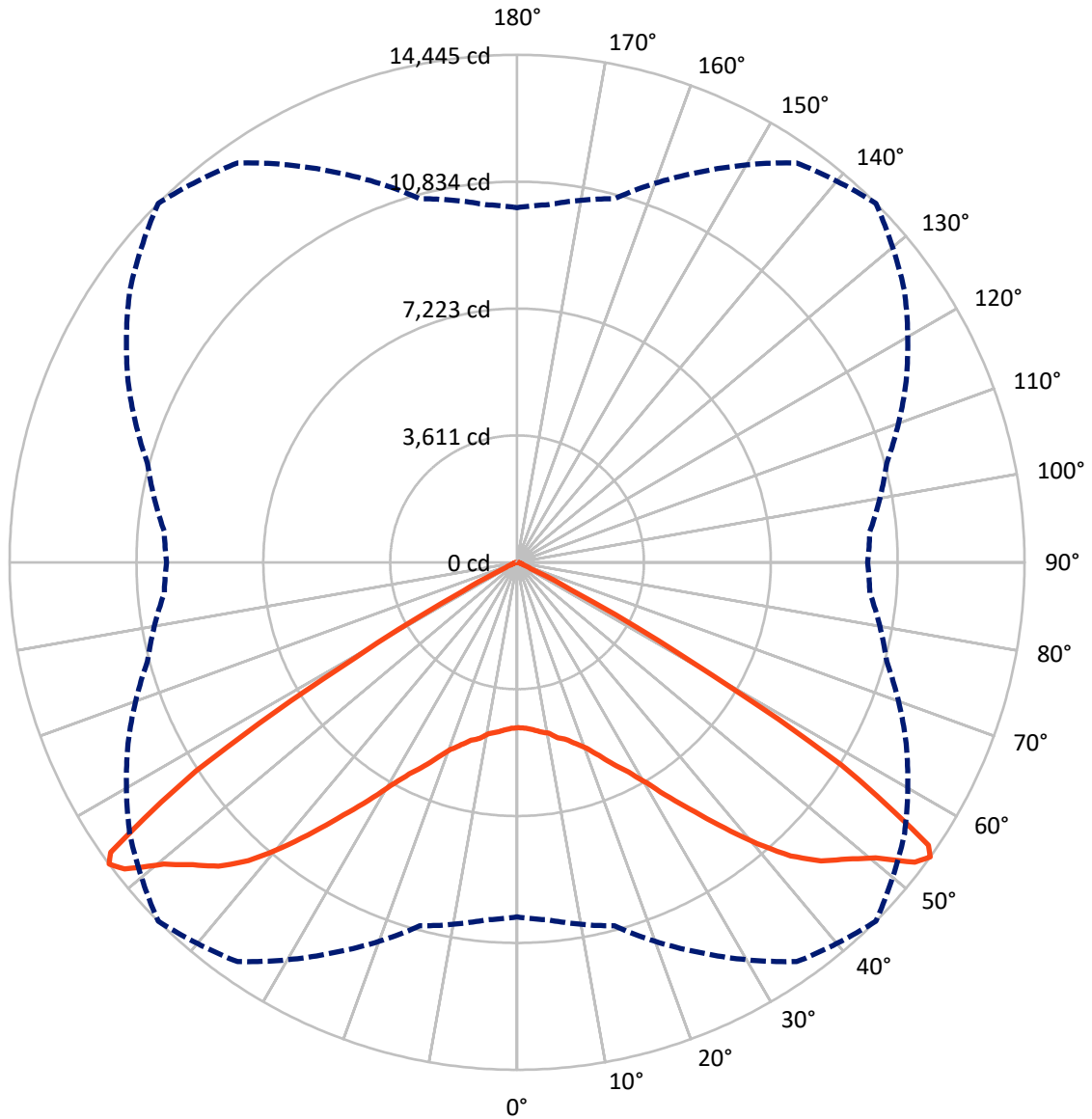
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14350.0	0.0	14350.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14350.0	0.0	14350.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28700.0	0.0	28700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.6
10°-20°	1491.6	5.2
20°-30°	2923.4	10.2
30°-40°	5256.9	18.3
40°-50°	8998.8	31.4
50°-60°	8707.2	30.3
60°-70°	745.4	2.6
70°-80°	88.3	0.3
80°-90°	27.7	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°	28700.0	100.0
0°-180°	28700.0	100.0

Coefficient of Utilization



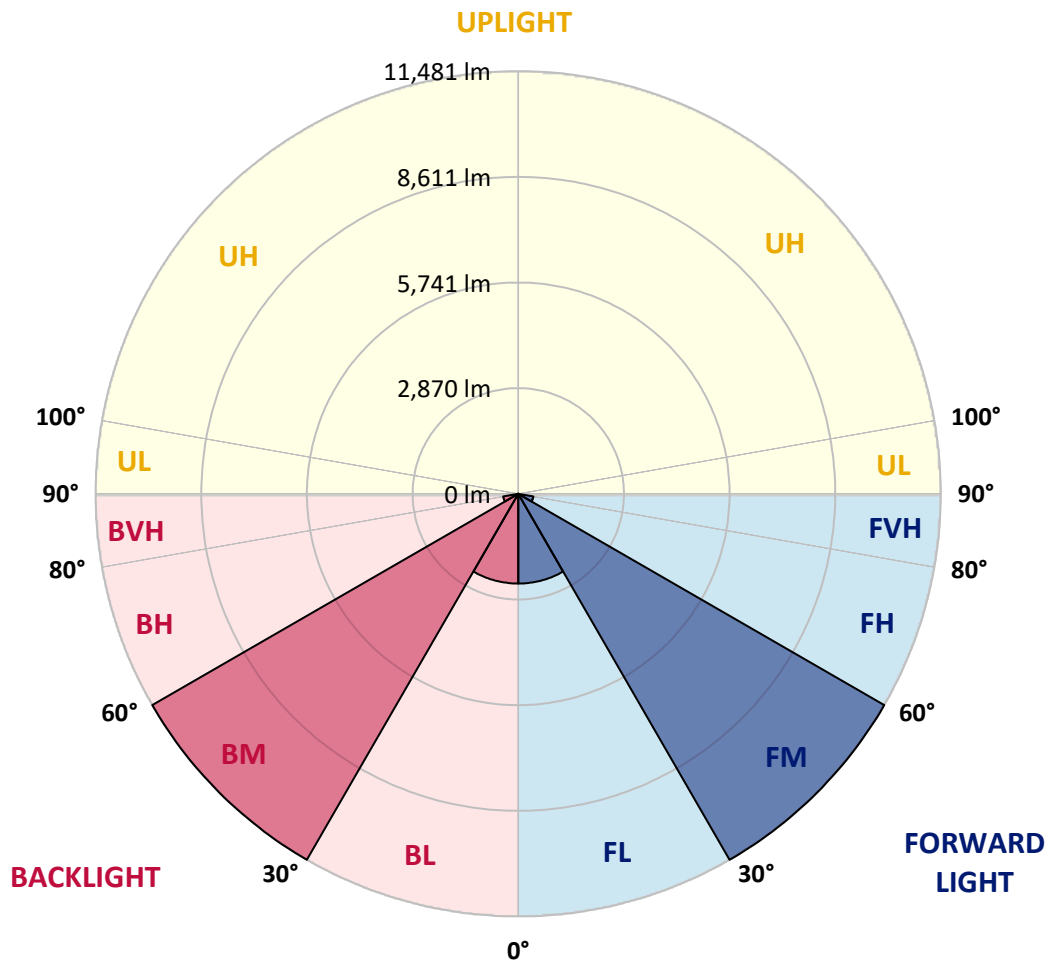
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2437.8	8.5			
FM (30°-60°)	11481.5	40.0			
FH (60°-80°)	416.9	1.5			G0/660
FVH (80°-90°)	13.8	0.0			G1/100
BL (0°-30°)	2437.8	8.5	B3/2500		
BM (30°-60°)	11481.5	40.0	B5		
BH (60°-80°)	416.9	1.5	B1/500		G0/660
BVH (80°-90°)	13.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4705.9	4705.9	4705.9	4705.9	4705.9	4705.9	4705.9	4705.9	4705.9	4705.9	4705.9
2.5°	4728.6	4755.9	4737.7	4751.4	4751.4	4728.6	4742.3	4687.7	4724.1	4696.8	4701.4
5°	4801.4	4796.8	4796.8	4801.4	4783.2	4792.3	4774.1	4755.9	4742.3	4724.1	4778.7
7.5°	4892.3	4892.3	4860.5	4869.6	4860.5	4874.1	4837.8	4801.4	4787.7	4774.1	4765.0
10°	4978.7	4969.6	4956.0	4996.9	4965.1	4946.9	4928.7	4906.0	4855.9	4837.8	4819.6
12.5°	5106.0	5101.5	5083.3	5124.2	5106.0	5124.2	5056.0	4996.9	4987.8	4928.7	4960.5
15°	5256.1	5297.0	5265.2	5265.2	5256.1	5233.3	5206.1	5178.8	5096.9	5074.2	5078.7
17.5°	5451.6	5437.9	5442.5	5442.5	5488.0	5428.8	5374.3	5306.1	5265.2	5251.5	5206.1
20°	5638.0	5656.2	5651.6	5683.5	5710.7	5647.1	5588.0	5578.9	5465.2	5483.4	5419.7
22.5°	5965.4	5951.7	5974.5	5997.2	5979.0	5969.9	5915.3	5847.1	5747.1	5701.6	5692.6
25°	6310.9	6288.2	6247.3	6301.8	6329.1	6370.0	6265.4	6229.1	6074.5	6006.3	6010.8
27.5°	6606.5	6638.3	6683.8	6706.5	6774.7	6761.0	6688.3	6570.1	6451.9	6374.6	6324.6
30°	7011.1	7029.3	7106.6	7138.4	7256.6	7288.5	7174.8	7038.4	6829.2	6729.2	6670.1
32.5°	7384.0	7511.3	7506.7	7665.9	7856.8	7988.7	7784.1	7574.9	7365.8	7247.5	7143.0
35°	7988.7	7965.9	8097.8	8266.0	8575.2	8725.2	8502.5	8261.5	7943.2	7752.2	7670.4
37.5°	8552.5	8561.6	8738.9	9007.1	9361.8	9593.7	9398.2	9002.6	8675.2	8429.7	8316.0
40°	9370.9	9389.1	9570.9	9875.6	10275.7	10525.8	10298.4	9898.3	9461.8	9270.9	9270.9
42.5°	10330.3	10407.6	10525.8	10789.5	11148.7	11426.0	11221.4	10907.7	10466.7	10221.1	10257.5
45°	11316.9	11353.3	11430.6	11821.6	11989.8	12126.2	11935.3	11789.8	11494.2	11194.1	11144.1
47.5°	12239.9	12253.5	12480.9	12603.6	12735.5	12621.8	12744.6	12553.6	12221.7	11930.7	11871.6
50°	12649.1	12626.4	12949.2	13322.0	13422.1	13222.0	13117.4	12990.1	12485.4	12135.3	11980.7
52.5°	11457.9	11589.7	12189.9	13226.6	14008.6	14176.8	13567.6	12981.0	12039.8	11357.8	11253.3
54°	10093.8	10216.6	10712.2	12249.0	13876.7	14445.1	13463.0	12217.2	10889.5	10080.2	9975.6
55°	8743.4	8607.0	9507.3	11075.9	13258.4	14208.7	13049.2	11230.5	9711.9	8970.8	8825.3
57.5°	4733.2	4755.9	5515.2	6997.5	9316.3	10894.1	9621.0	7597.7	5738.0	4906.0	4833.2
60°	1500.4	1536.8	1868.7	2828.1	4451.3	5315.2	4555.9	3050.9	2109.7	1691.4	1623.2
62.5°	468.3	486.5	532.0	791.1	1218.5	1741.4	1364.0	818.4	609.3	559.3	568.3
65°	286.4	286.4	291.0	309.2	363.7	422.8	409.2	359.2	345.6	336.5	331.9
67.5°	186.4	181.9	191.0	204.6	213.7	218.2	231.9	245.5	241.0	231.9	231.9
70°	113.7	109.1	118.2	136.4	140.9	150.0	163.7	181.9	177.3	168.2	172.8
72.5°	63.7	63.7	68.2	81.8	95.5	104.6	118.2	131.9	136.4	131.9	131.9
75°	22.7	27.3	36.4	50.0	59.1	72.7	86.4	100.0	113.7	104.6	100.0
77.5°	9.1	9.1	18.2	31.8	45.5	59.1	81.8	95.5	104.6	95.5	86.4
80°	4.5	4.5	13.6	27.3	40.9	54.6	68.2	81.8	86.4	77.3	68.2
82.5°	4.5	4.5	13.6	27.3	40.9	50.0	72.7	81.8	90.9	81.8	68.2
85°	0.0	4.5	13.6	27.3	36.4	40.9	40.9	27.3	22.7	13.6	13.6
87.5°	0.0	0.0	4.5	0.0	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)