

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: P453729

Luminaire Tested: **GALN-SA4D-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31938 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

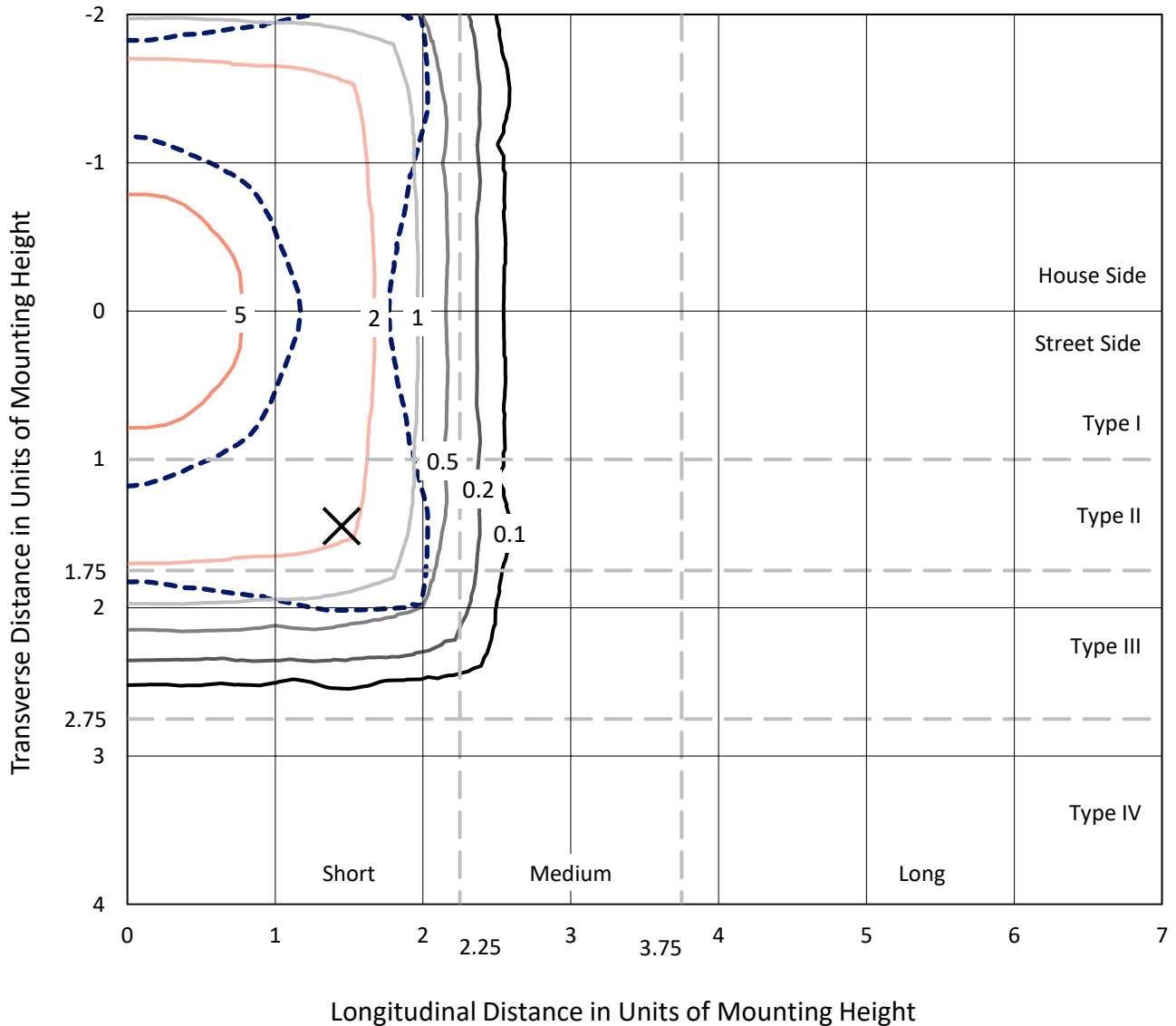
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

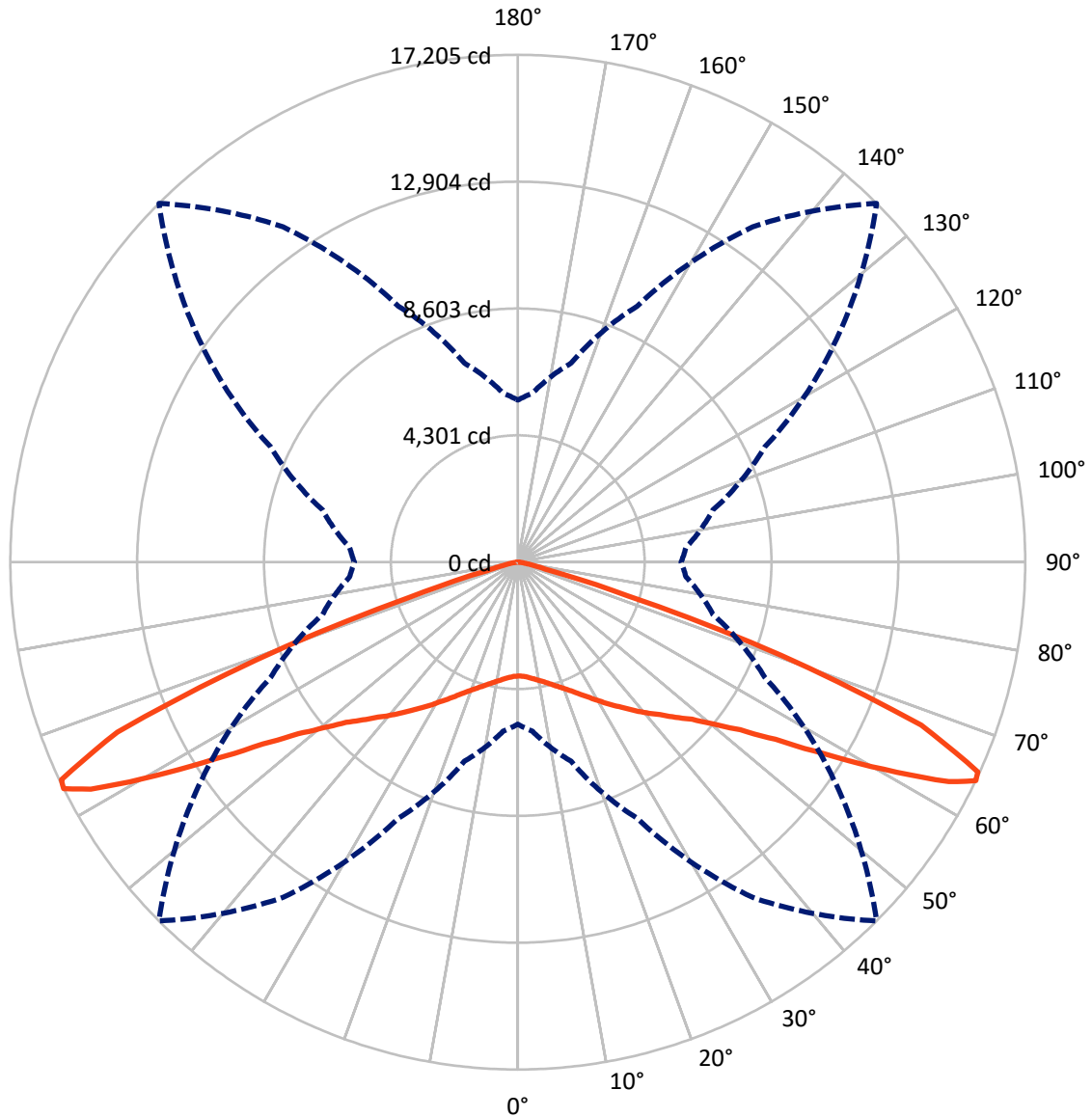
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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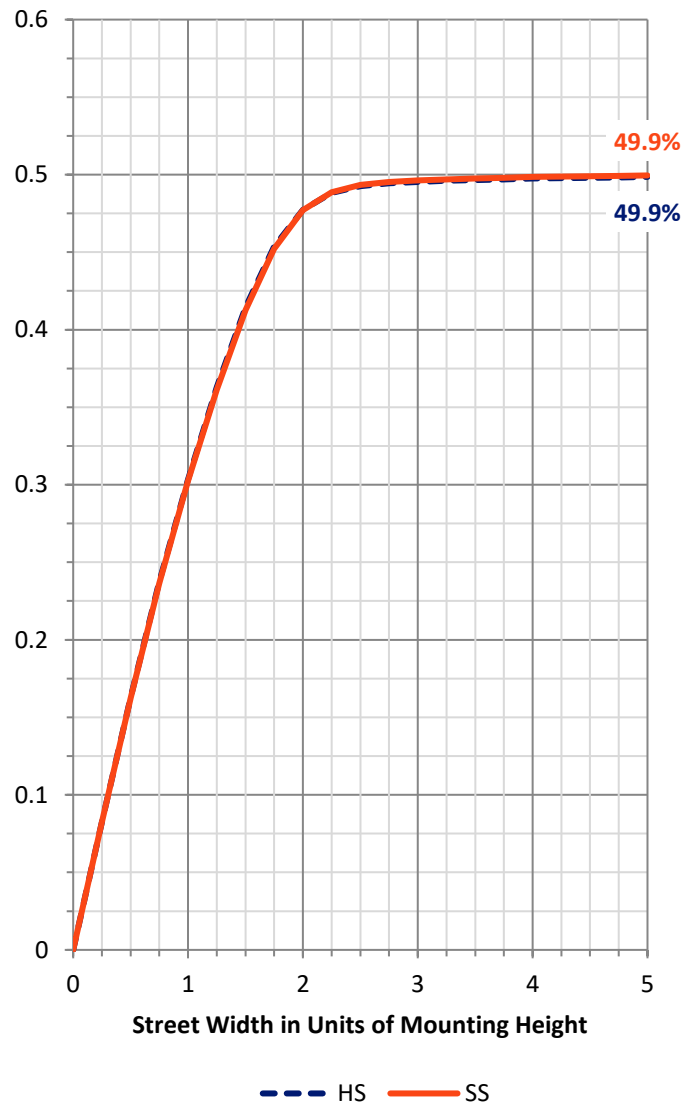
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15969.0	0.0	15969.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15969.0	0.0	15969.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31938.0	0.0	31938.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.2
10°-20°	1223.3	3.8
20°-30°	2311.7	7.2
30°-40°	3828.4	12.0
40°-50°	5976.8	18.7
50°-60°	9240.0	28.9
60°-70°	7967.5	24.9
70°-80°	902.9	2.8
80°-90°	108.2	0.3
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°	31938.0	100.0
0°-180°	31938.0	100.0



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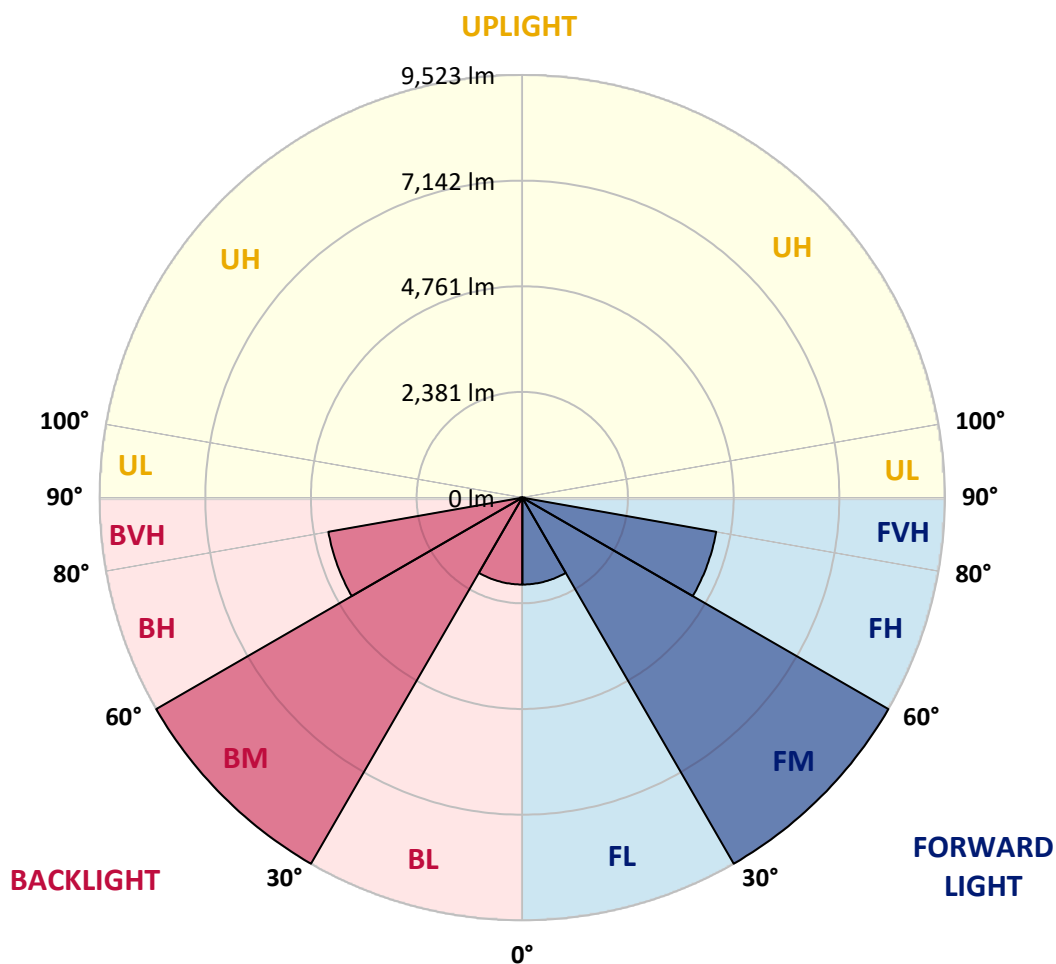
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.1	6.1			
FM (30°-60°)	9522.6	29.8			
FH (60°-80°)	4435.2	13.9			G2/5000
FVH (80°-90°)	54.1	0.2			G1/100
BL (0°-30°)	1957.1	6.1	B3/2500		
BM (30°-60°)	9522.6	29.8	B5		
BH (60°-80°)	4435.2	13.9	B4/5000		G2/5000
BVH (80°-90°)	54.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3860.2	3860.2	3860.2	3860.2	3860.2	3860.2	3860.2	3860.2	3860.2	3860.2	3860.2
2.5°	3875.5	3883.9	3877.2	3875.5	3873.8	3873.8	3873.8	3875.5	3882.2	3887.3	3883.9
5°	3924.5	3931.3	3927.9	3926.2	3924.5	3926.2	3922.8	3921.1	3926.2	3926.2	3924.5
7.5°	3985.4	3993.9	3990.5	3993.9	3995.6	3997.3	3988.8	3982.0	3980.3	3985.4	3982.0
10°	4068.3	4075.1	4076.8	4078.5	4081.8	4080.2	4070.0	4058.2	4056.5	4054.8	4053.1
12.5°	4161.4	4166.4	4168.1	4174.9	4180.0	4181.6	4169.8	4159.7	4142.7	4146.1	4139.4
15°	4266.2	4276.4	4274.7	4284.8	4298.4	4301.8	4289.9	4273.0	4257.8	4249.3	4244.2
17.5°	4394.8	4401.6	4398.2	4408.3	4425.2	4433.7	4423.5	4401.6	4386.3	4367.7	4357.6
20°	4547.0	4558.9	4562.3	4562.3	4577.5	4585.9	4570.7	4564.0	4540.3	4526.7	4518.3
22.5°	4719.6	4724.7	4734.8	4745.0	4760.2	4756.8	4751.7	4741.6	4719.6	4707.7	4694.2
25°	4914.1	4919.2	4944.6	4966.6	4971.6	4968.2	4961.5	4956.4	4936.1	4909.0	4898.9
27.5°	5140.8	5150.9	5184.8	5205.1	5205.1	5206.8	5193.2	5210.1	5166.2	5134.0	5130.6
30°	5425.0	5431.7	5460.5	5480.8	5470.7	5462.2	5458.8	5475.7	5428.4	5370.8	5357.3
32.5°	5705.8	5729.5	5754.8	5798.8	5763.3	5748.1	5744.7	5756.5	5702.4	5638.1	5619.5
35°	6006.9	6023.8	6071.2	6108.4	6076.2	6040.7	6055.9	6093.2	6028.9	5942.6	5939.2
37.5°	6340.1	6355.4	6416.3	6455.2	6431.5	6370.6	6396.0	6439.9	6375.7	6269.1	6247.1
40°	6686.9	6719.1	6795.2	6835.8	6796.9	6715.7	6763.0	6810.4	6752.9	6629.4	6580.3
42.5°	7076.0	7126.7	7236.7	7257.0	7182.6	7072.6	7155.5	7231.6	7191.0	7048.9	7030.3
45°	7531.0	7561.5	7696.8	7740.8	7637.6	7500.6	7603.8	7742.5	7712.0	7547.9	7512.4
47.5°	8040.2	8069.0	8209.4	8275.3	8145.1	7960.7	8146.8	8327.8	8309.2	8133.2	8116.3
50°	8642.4	8649.2	8843.7	8918.1	8787.9	8628.9	8794.7	9019.6	8945.2	8720.2	8716.8
52.5°	9302.1	9310.6	9555.9	9699.7	9626.9	9447.6	9643.8	9780.9	9591.4	9297.1	9275.1
55°	9873.9	9916.2	10251.1	10633.4	10733.2	10603.0	10662.2	10597.9	10131.0	9718.3	9654.0
57.5°	10107.3	10190.2	10699.4	11413.3	12062.8	12255.7	11799.0	11186.6	10345.9	9762.3	9699.7
60°	9537.3	9626.9	10416.9	11771.9	13429.7	14267.0	12983.1	11286.4	9857.0	9036.6	8938.4
62.5°	7637.6	7663.0	8825.1	10927.8	14226.4	16395.0	13482.1	10435.5	8434.3	7319.6	7280.7
64°	5496.0	5756.5	6988.0	9581.3	13877.9	17205.3	13194.5	9242.9	6851.0	5722.7	5540.0
65°	4110.6	4181.6	5633.0	8182.3	13263.9	17144.4	12636.3	8102.8	5673.6	4379.6	4176.6
67.5°	1552.9	1561.4	2079.0	4078.5	9442.5	14750.8	9643.8	4408.3	2390.2	1728.8	1666.2
70°	644.5	656.3	762.9	1371.9	4058.2	9471.3	4650.2	1590.1	874.6	708.8	698.6
72.5°	472.0	478.7	510.9	609.0	1248.4	3889.0	1529.2	675.0	512.6	458.4	453.4
75°	370.5	373.8	397.5	448.3	581.9	1077.6	636.0	463.5	390.8	351.9	348.5
77.5°	282.5	291.0	307.9	341.7	390.8	510.9	421.2	346.8	301.1	269.0	263.9
80°	194.5	204.7	236.8	250.4	262.2	331.6	287.6	262.2	235.1	196.2	184.4
82.5°	120.1	126.9	159.0	170.9	165.8	186.1	184.4	187.8	167.5	121.8	113.3
85°	62.6	66.0	86.3	89.7	82.9	76.1	94.7	110.0	103.2	69.4	67.7
87.5°	13.5	15.2	18.6	16.9	18.6	18.6	23.7	35.5	37.2	23.7	22.0
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)