

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: P529574

Luminaire Tested: **GALN-SA4D-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529574
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-SA4D-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 24600 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

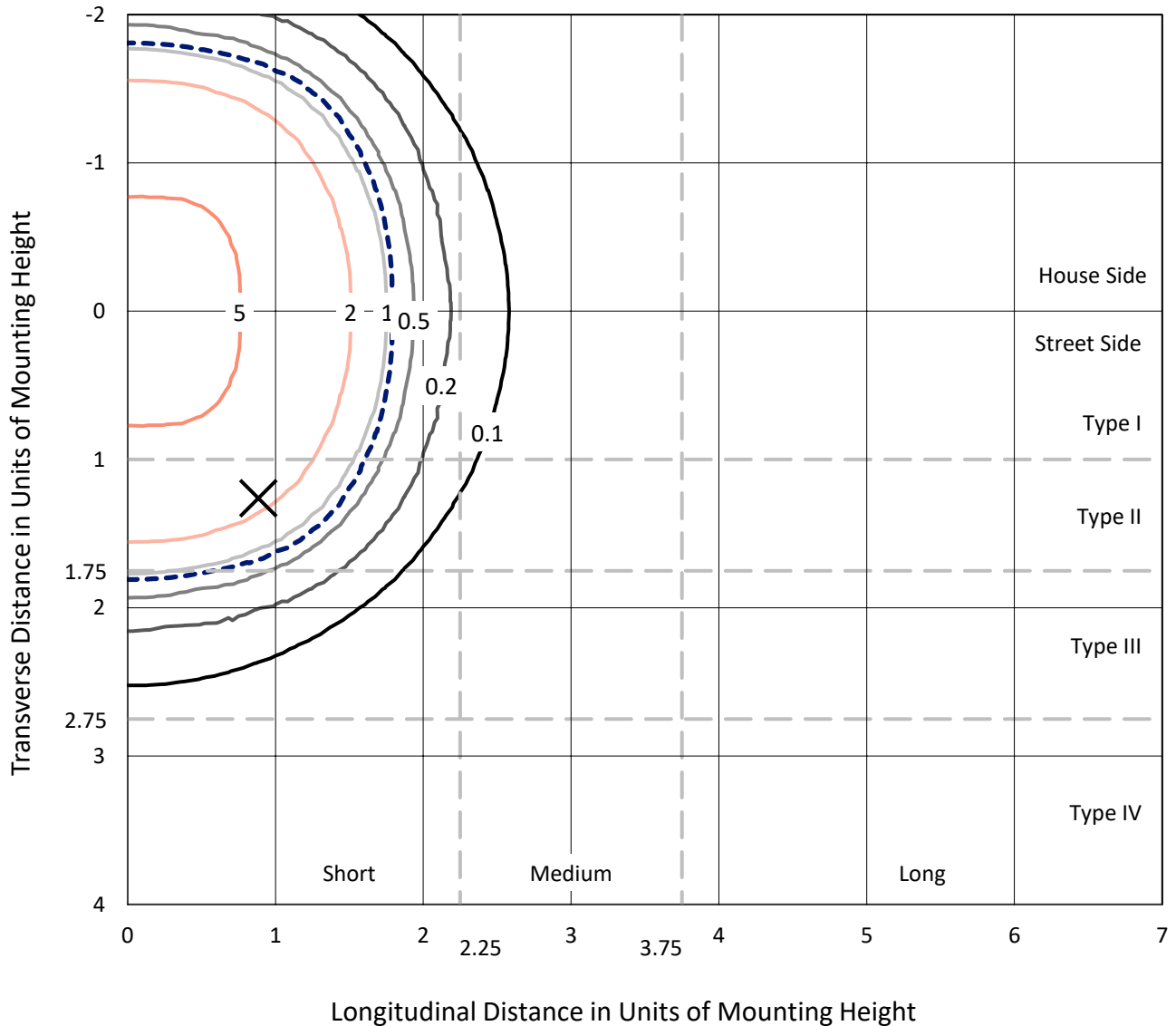
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

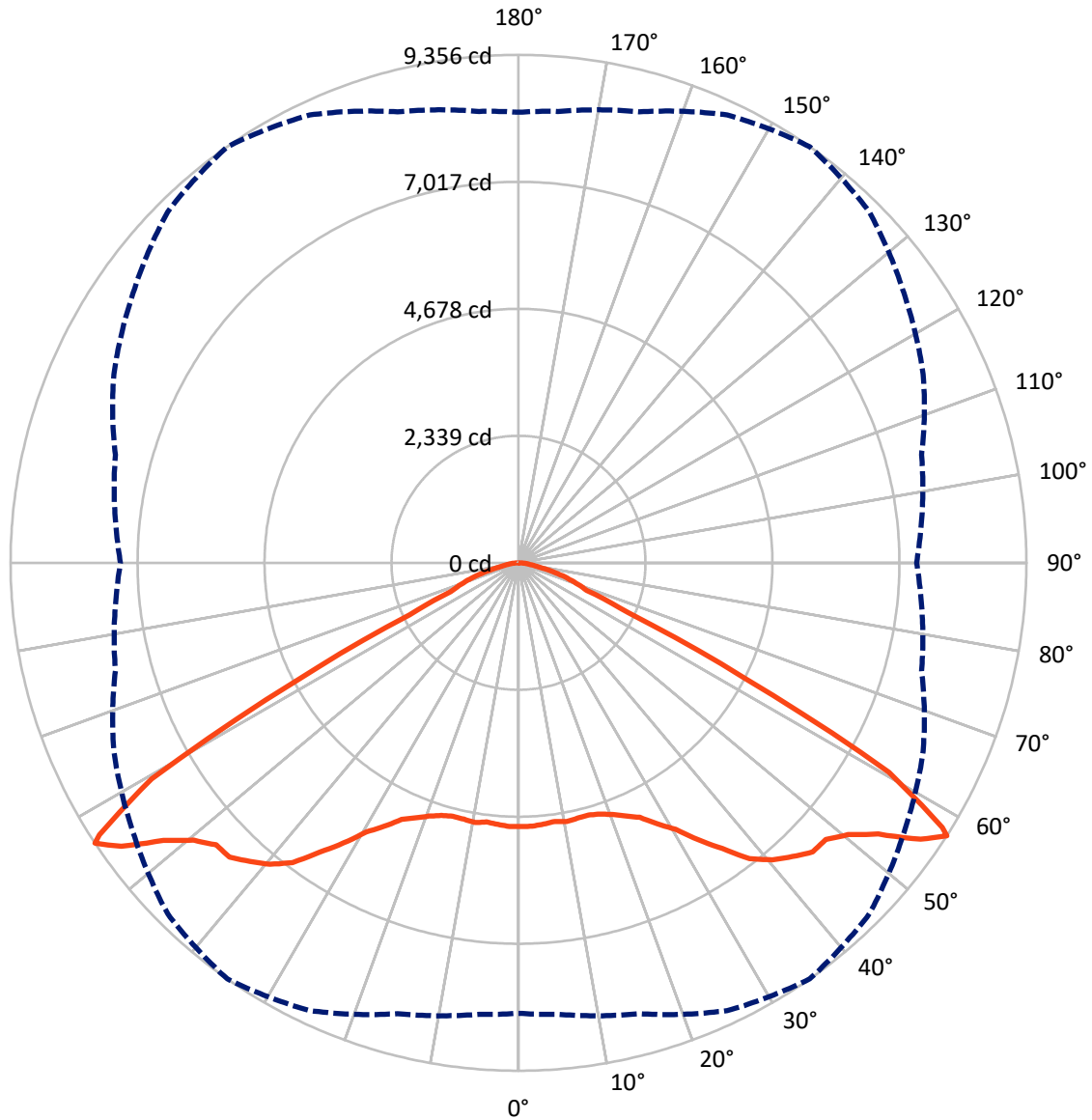
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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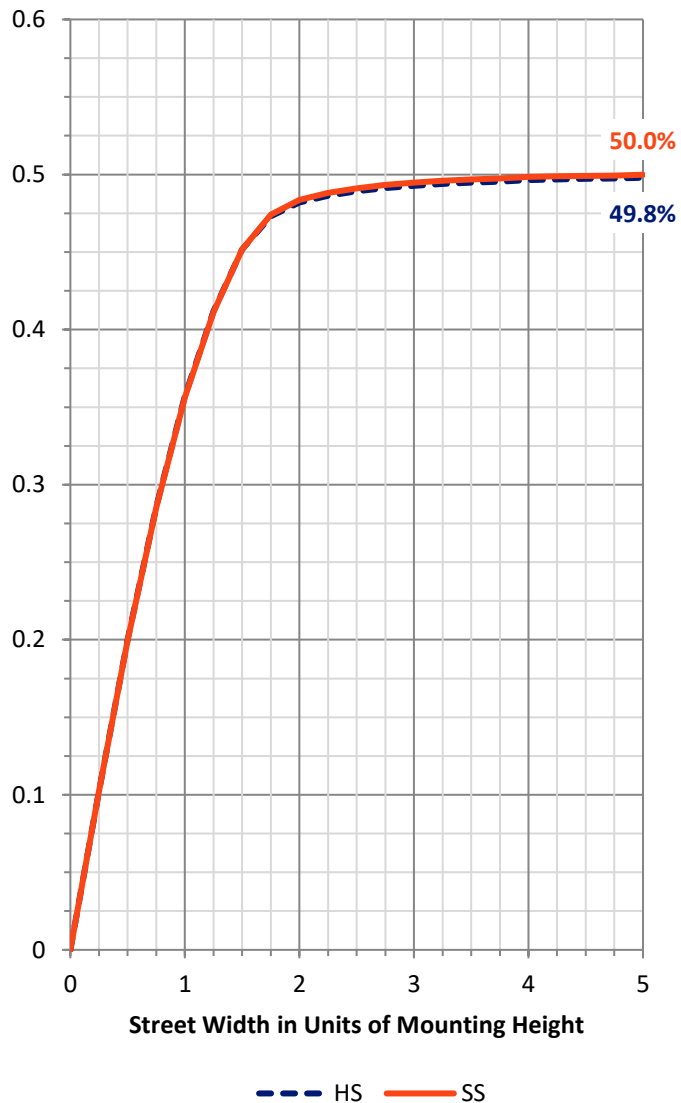
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12300.0	0.0	12300.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12300.0	0.0	12300.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24600.0	0.0	24600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.9
10°-20°	1364.1	5.5
20°-30°	2382.4	9.7
30°-40°	3903.7	15.9
40°-50°	5723.7	23.3
50°-60°	7209.5	29.3
60°-70°	2711.4	11.0
70°-80°	721.0	2.9
80°-90°	123.6	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°	24600.0	100.0
0°-180°	24600.0	100.0

Coefficient of Utilization



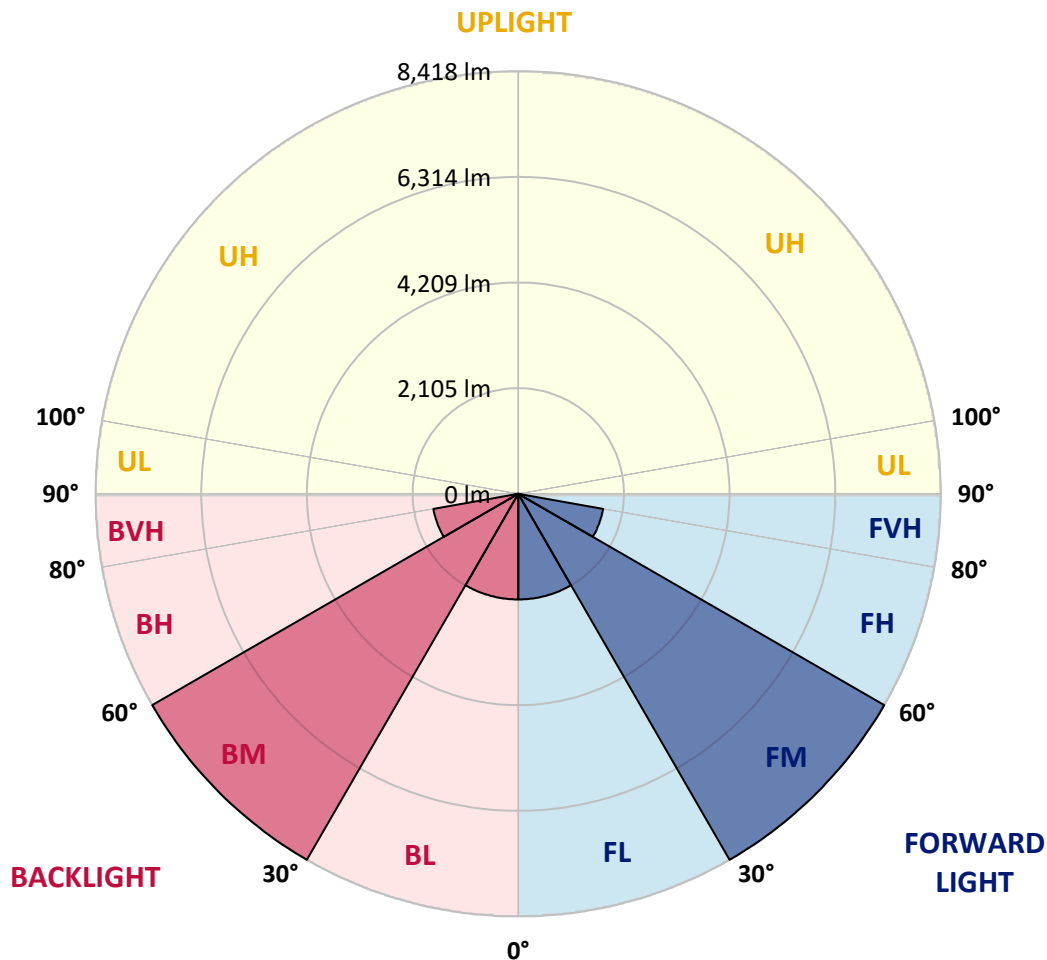
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2103.6	8.6			
FM (30°-60°)	8418.4	34.2			
FH (60°-80°)	1716.2	7.0			G1/1800
FVH (80°-90°)	61.8	0.3			G1/100
BL (0°-30°)	2103.6	8.6	B3/2500		
BM (30°-60°)	8418.4	34.2	B4/8500		
BH (60°-80°)	1716.2	7.0	B3/2500		G1/1800
BVH (80°-90°)	61.8	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°	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3
2.5°	4834.1	4882.6	4861.3	4849.2	4858.3	4843.2	4818.9	4846.2	4840.1	4815.9	4806.8
5°	4821.9	4858.3	4834.1	4858.3	4834.1	4876.5	4864.4	4818.9	4873.5	4821.9	4840.1
7.5°	4812.9	4825.0	4831.0	4818.9	4809.8	4861.3	4834.1	4812.9	4782.5	4773.5	4788.6
10°	4791.6	4821.9	4776.5	4837.1	4849.2	4812.9	4812.9	4773.5	4749.2	4734.1	4785.6
12.5°	4846.2	4794.7	4788.6	4818.9	4828.0	4843.2	4800.7	4779.5	4734.1	4740.1	4731.0
15°	4782.5	4803.8	4806.8	4812.9	4821.9	4858.3	4818.9	4773.5	4755.3	4691.6	4697.7
17.5°	4806.8	4785.6	4806.8	4876.5	4864.4	4891.7	4849.2	4779.5	4737.1	4700.7	4749.2
20°	4849.2	4840.1	4849.2	4934.1	4949.2	4973.5	4937.1	4873.5	4791.6	4749.2	4773.5
22.5°	4894.7	4888.6	4894.7	4976.5	5064.4	5094.7	5058.3	4909.8	4867.4	4788.6	4761.3
25°	4976.5	4982.6	5046.2	5137.1	5194.7	5252.3	5185.6	5079.6	4943.2	4894.7	4837.1
27.5°	5158.4	5173.5	5209.9	5343.2	5443.3	5494.8	5400.8	5255.3	5170.5	5070.5	5055.3
30°	5382.6	5382.6	5446.3	5561.5	5697.8	5776.6	5661.5	5488.7	5385.7	5331.1	5297.8
32.5°	5679.7	5646.3	5670.6	5873.6	6085.8	6152.5	5997.9	5785.7	5622.1	5549.3	5525.1
35°	5934.2	5955.5	6010.0	6228.2	6464.6	6619.2	6376.7	6100.9	5934.2	5867.6	5855.4
37.5°	6264.6	6301.0	6328.2	6628.3	6913.2	6970.8	6737.4	6516.1	6313.1	6258.5	6228.2
40°	6731.3	6707.1	6716.2	6937.4	7195.0	7231.4	7001.1	6843.5	6676.8	6643.4	6643.4
42.5°	7116.2	7089.0	7119.3	7201.1	7398.1	7370.8	7243.5	7128.4	7058.7	7022.3	7058.7
45°	7349.6	7343.5	7398.1	7458.7	7598.1	7507.2	7407.2	7425.4	7358.7	7298.1	7295.1
47.5°	7604.2	7564.8	7631.5	7722.4	7616.3	7573.9	7567.8	7607.2	7586.0	7479.9	7446.6
50°	7728.5	7713.3	7819.4	7925.5	7867.9	7770.9	7792.1	7855.7	7583.0	7440.5	7358.7
52.5°	8061.8	8064.9	8267.9	8325.5	8301.3	8158.8	8204.3	8031.5	7710.3	7510.2	7519.3
55°	8586.2	8564.9	8792.3	8962.0	8989.3	8807.4	8589.2	8346.7	7943.6	7740.6	7680.0
57°	8298.2	8346.7	8598.3	9101.4	9356.0	9140.8	8665.0	8222.5	7686.0	7440.5	7331.4
57.5°	7913.3	7992.1	8428.6	8934.7	9201.4	9183.2	8571.0	7992.1	7513.3	7131.4	7140.5
60°	5797.9	5813.0	6207.0	7010.2	7843.6	7861.8	7116.2	6349.5	5816.0	5400.8	5458.4
62.5°	3058.0	3127.8	3285.4	3930.9	4652.2	4828.0	4376.4	3982.4	3521.8	3206.6	3236.9
65°	1618.4	1609.3	1685.1	1867.0	2221.6	2312.5	2251.9	1939.7	1779.1	1727.5	1730.6
67.5°	1315.4	1330.5	1321.4	1330.5	1354.8	1394.2	1385.1	1397.2	1406.3	1421.4	1418.4
70°	1115.3	1115.3	1121.4	1124.4	1124.4	1142.6	1163.8	1203.2	1206.2	1221.4	1227.5
72.5°	878.9	872.9	882.0	903.2	906.2	921.4	951.7	975.9	985.0	985.0	966.8
75°	597.1	603.1	615.2	633.4	651.6	678.9	703.1	718.3	724.4	715.3	706.2
77.5°	336.4	342.5	351.6	378.8	400.1	424.3	451.6	466.7	481.9	484.9	466.7
80°	200.0	200.0	215.2	236.4	260.6	284.9	309.1	327.3	333.4	333.4	324.3
82.5°	121.2	124.3	136.4	157.6	178.8	194.0	215.2	230.3	242.5	239.4	233.4
85°	63.6	63.6	75.8	94.0	109.1	124.3	124.3	115.2	109.1	94.0	87.9
87.5°	21.2	18.2	24.2	24.2	21.2	24.2	24.2	27.3	27.3	27.3	27.3
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)