

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: P529626

Luminaire Tested: **GALN-SA4D-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529626
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-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 27012 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

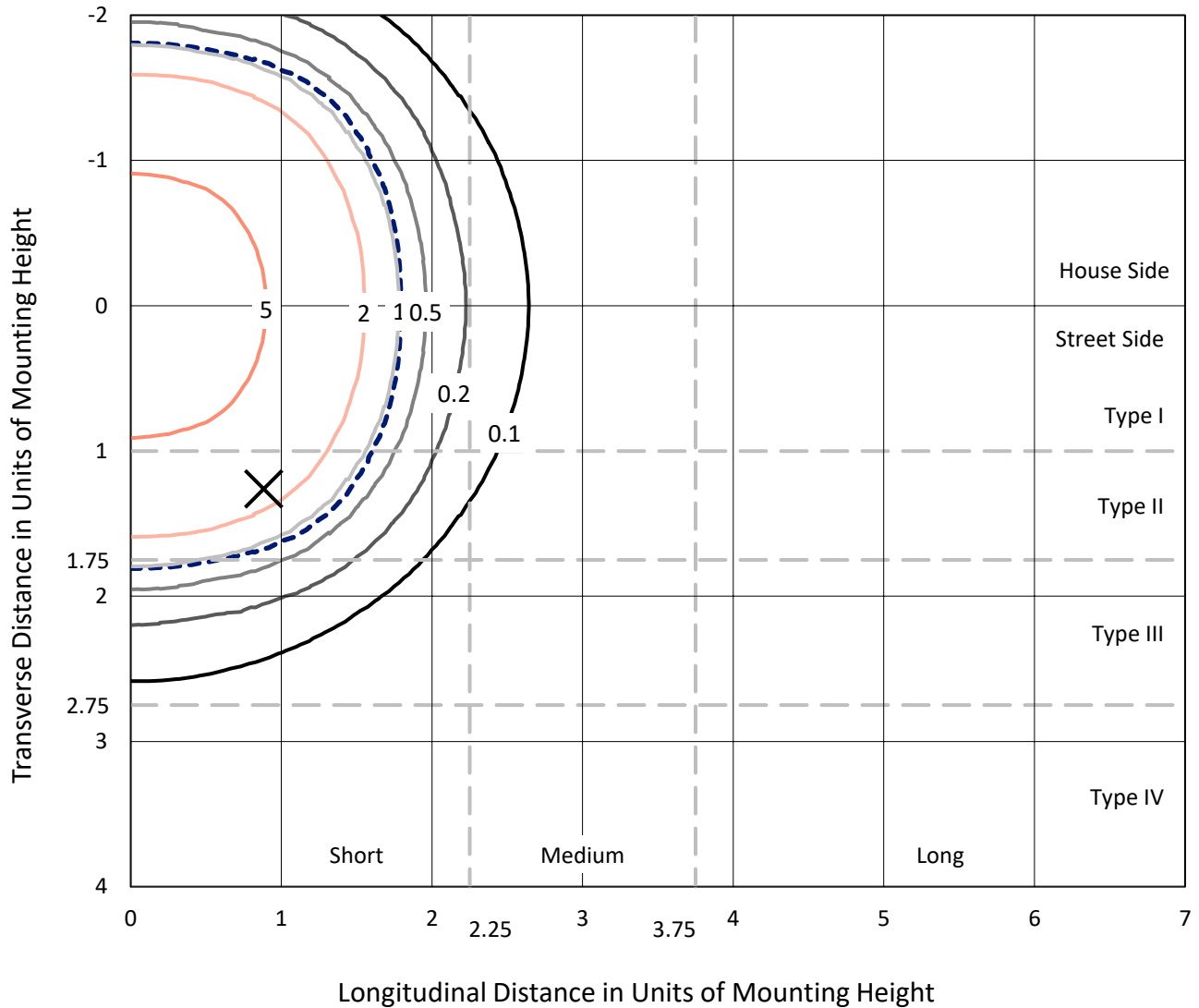
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

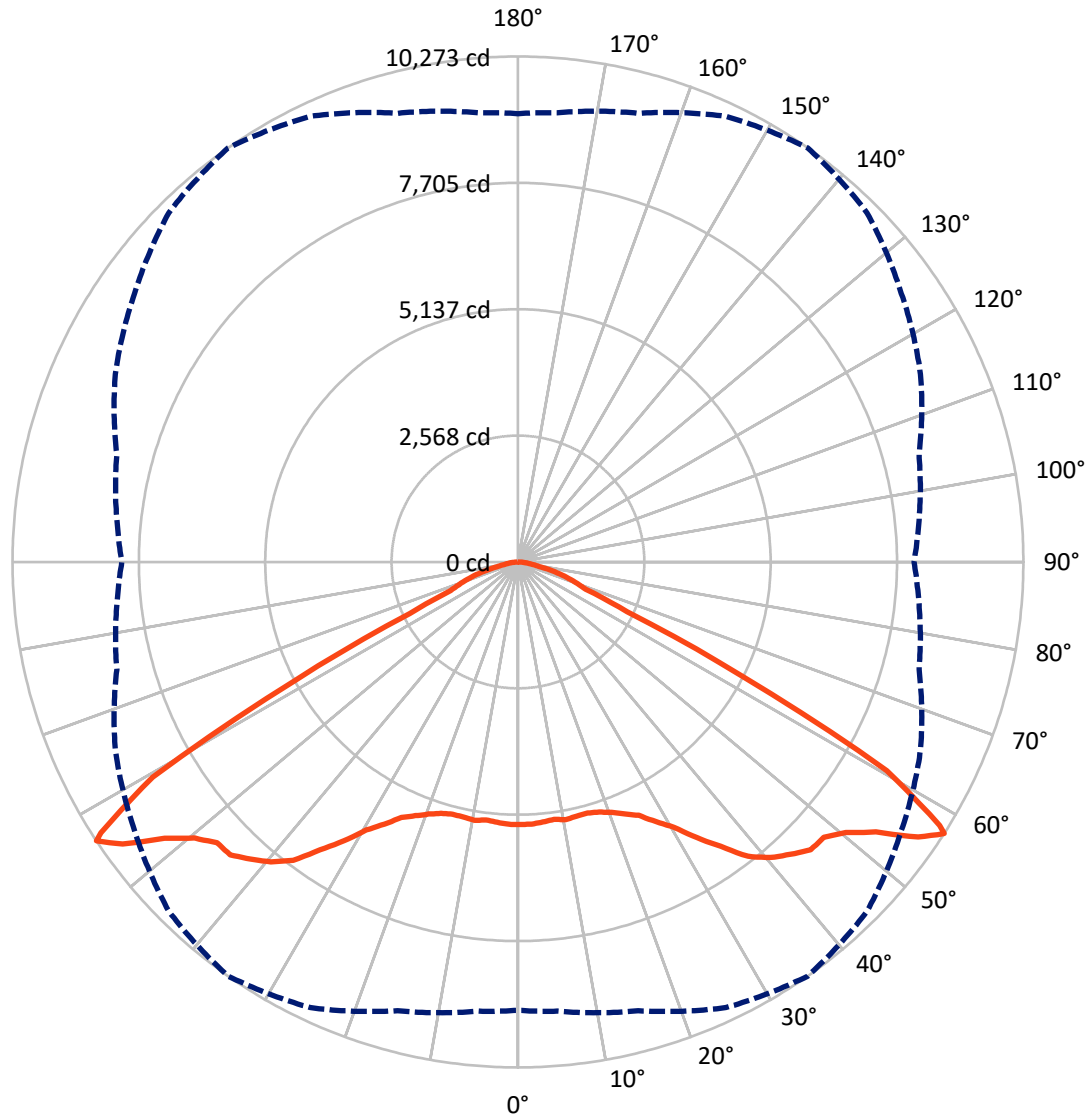
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	13506.0	0.0	13506.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13506.0	0.0	13506.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27012.0	0.0	27012.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	1.9
10°-20°	1497.9	5.5
20°-30°	2616.0	9.7
30°-40°	4286.4	15.9
40°-50°	6284.9	23.3
50°-60°	7916.4	29.3
60°-70°	2977.3	11.0
70°-80°	791.6	2.9
80°-90°	135.7	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°	27012.0	100.0
0°-180°	27012.0	100.0



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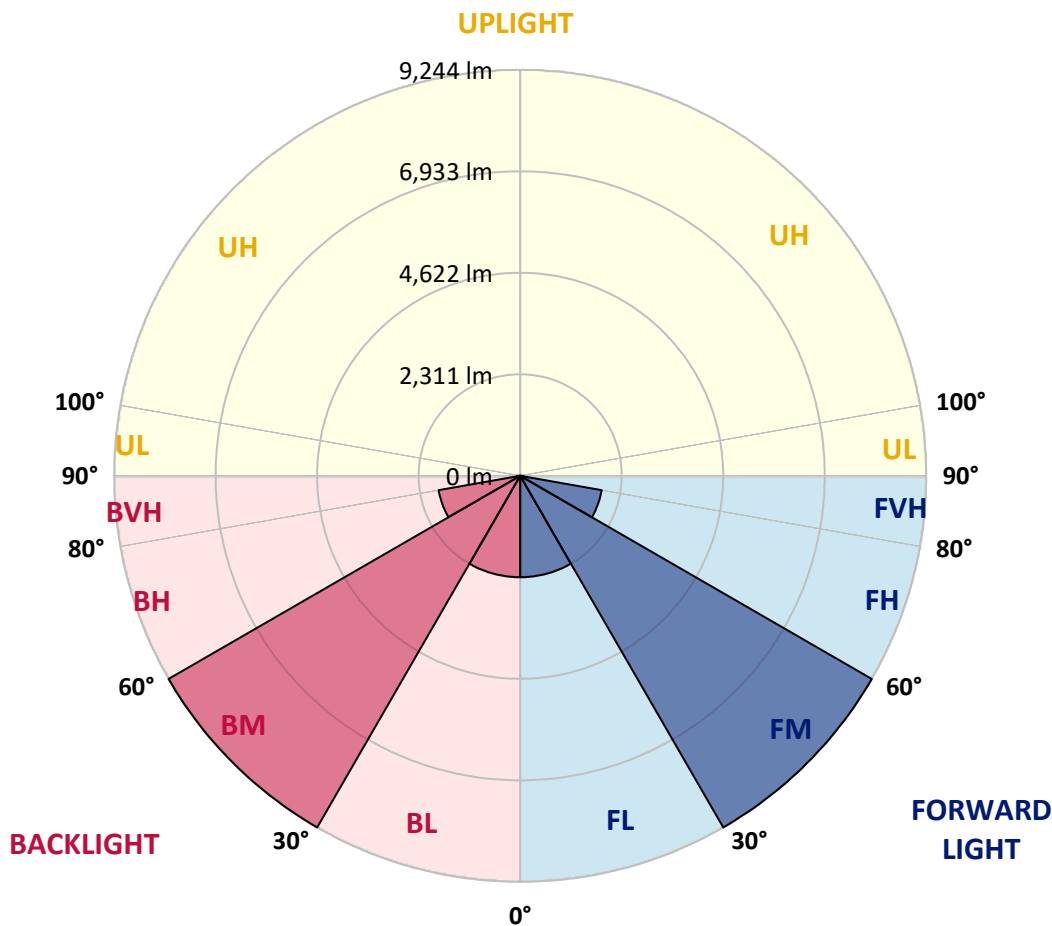
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2309.8	8.6			
FM (30°-60°)	9243.9	34.2			
FH (60°-80°)	1884.5	7.0			G2/5000
FVH (80°-90°)	67.9	0.3			G1/100
BL (0°-30°)	2309.8	8.6	B3/2500		
BM (30°-60°)	9243.9	34.2	B5		
BH (60°-80°)	1884.5	7.0	B3/2500		G2/5000
BVH (80°-90°)	67.9	0.3			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°	5334.7	5334.7	5334.7	5334.7	5334.7	5334.7	5334.7	5334.7	5334.7	5334.7	5334.7
2.5°	5308.0	5361.3	5338.0	5324.7	5334.7	5318.0	5291.4	5321.4	5314.7	5288.1	5278.1
5°	5294.7	5334.7	5308.0	5334.7	5308.0	5354.6	5341.3	5291.4	5351.3	5294.7	5314.7
7.5°	5284.8	5298.1	5304.7	5291.4	5281.4	5338.0	5308.0	5284.8	5251.5	5241.5	5258.1
10°	5261.5	5294.7	5244.8	5311.4	5324.7	5284.8	5284.8	5241.5	5214.9	5198.2	5254.8
12.5°	5321.4	5264.8	5258.1	5291.4	5301.4	5318.0	5271.4	5248.1	5198.2	5204.9	5194.9
15°	5251.5	5274.8	5278.1	5284.8	5294.7	5334.7	5291.4	5241.5	5221.5	5151.6	5158.3
17.5°	5278.1	5254.8	5278.1	5354.6	5341.3	5371.3	5324.7	5248.1	5201.6	5161.6	5214.9
20°	5324.7	5314.7	5324.7	5417.9	5434.5	5461.1	5421.2	5351.3	5261.5	5214.9	5241.5
22.5°	5374.6	5368.0	5374.6	5464.5	5561.0	5594.2	5554.3	5391.2	5344.7	5258.1	5228.2
25°	5464.5	5471.1	5541.0	5640.8	5704.1	5767.3	5694.1	5577.6	5427.9	5374.6	5311.4
27.5°	5664.1	5680.8	5720.7	5867.1	5977.0	6033.5	5930.4	5770.6	5677.4	5567.6	5551.0
30°	5910.4	5910.4	5980.3	6106.8	6256.5	6343.0	6216.6	6026.9	5913.7	5853.8	5817.2
32.5°	6236.5	6199.9	6226.6	6449.5	6682.5	6755.7	6586.0	6353.0	6173.3	6093.4	6066.8
35°	6516.1	6539.4	6599.3	6838.9	7098.5	7268.2	7002.0	6699.1	6516.1	6442.9	6429.6
37.5°	6878.8	6918.8	6948.7	7278.2	7591.0	7654.2	7398.0	7155.0	6932.1	6872.2	6838.9
40°	7391.3	7364.7	7374.7	7617.6	7900.5	7940.4	7687.5	7514.5	7331.4	7294.8	7294.8
42.5°	7814.0	7784.0	7817.3	7907.2	8123.5	8093.5	7953.8	7827.3	7750.7	7710.8	7750.7
45°	8070.2	8063.6	8123.5	8190.0	8343.1	8243.3	8133.5	8153.4	8080.2	8013.7	8010.3
47.5°	8349.8	8306.5	8379.7	8479.6	8363.1	8316.5	8309.8	8353.1	8329.8	8213.3	8176.7
50°	8486.2	8469.6	8586.1	8702.5	8639.3	8532.8	8556.1	8626.0	8326.5	8170.1	8080.2
52.5°	8852.3	8855.6	9078.6	9141.8	9115.2	8958.8	9008.7	8819.0	8466.3	8246.6	8256.6
55°	9428.0	9404.7	9654.3	9840.7	9870.6	9671.0	9431.4	9165.1	8722.5	8499.5	8433.0
57°	9111.9	9165.1	9441.3	9993.8	10273.3	10037.0	9514.6	9028.7	8439.6	8170.1	8050.3
57.5°	8689.2	8775.8	9255.0	9810.7	10103.6	10083.6	9411.4	8775.8	8249.9	7830.6	7840.6
60°	6366.3	6383.0	6815.6	7697.5	8612.7	8632.6	7814.0	6972.0	6386.3	5930.4	5993.6
62.5°	3357.9	3434.4	3607.5	4316.3	5108.4	5301.4	4805.5	4372.9	3867.1	3520.9	3554.2
65°	1777.1	1767.1	1850.3	2050.0	2439.4	2539.2	2472.7	2129.9	1953.5	1896.9	1900.2
67.5°	1444.3	1461.0	1451.0	1461.0	1487.6	1530.8	1520.9	1534.2	1544.2	1560.8	1557.5
70°	1224.7	1224.7	1231.3	1234.7	1234.7	1254.6	1277.9	1321.2	1324.5	1341.2	1347.8
72.5°	965.1	958.4	968.4	991.7	995.1	1011.7	1045.0	1071.6	1081.6	1081.6	1061.6
75°	655.6	662.3	675.6	695.5	715.5	745.5	772.1	788.7	795.4	785.4	775.4
77.5°	369.4	376.1	386.0	416.0	439.3	465.9	495.9	512.5	529.1	532.5	512.5
80°	219.6	219.6	236.3	259.6	286.2	312.8	339.4	359.4	366.1	366.1	356.1
82.5°	133.1	136.4	149.8	173.1	196.3	213.0	236.3	252.9	266.2	262.9	256.3
85°	69.9	69.9	83.2	103.2	119.8	136.4	136.4	126.5	119.8	103.2	96.5
87.5°	23.3	20.0	26.6	26.6	23.3	26.6	26.6	30.0	30.0	30.0	30.0
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)