

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: P528642

Luminaire Tested: **GALN-SA3D-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17843 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

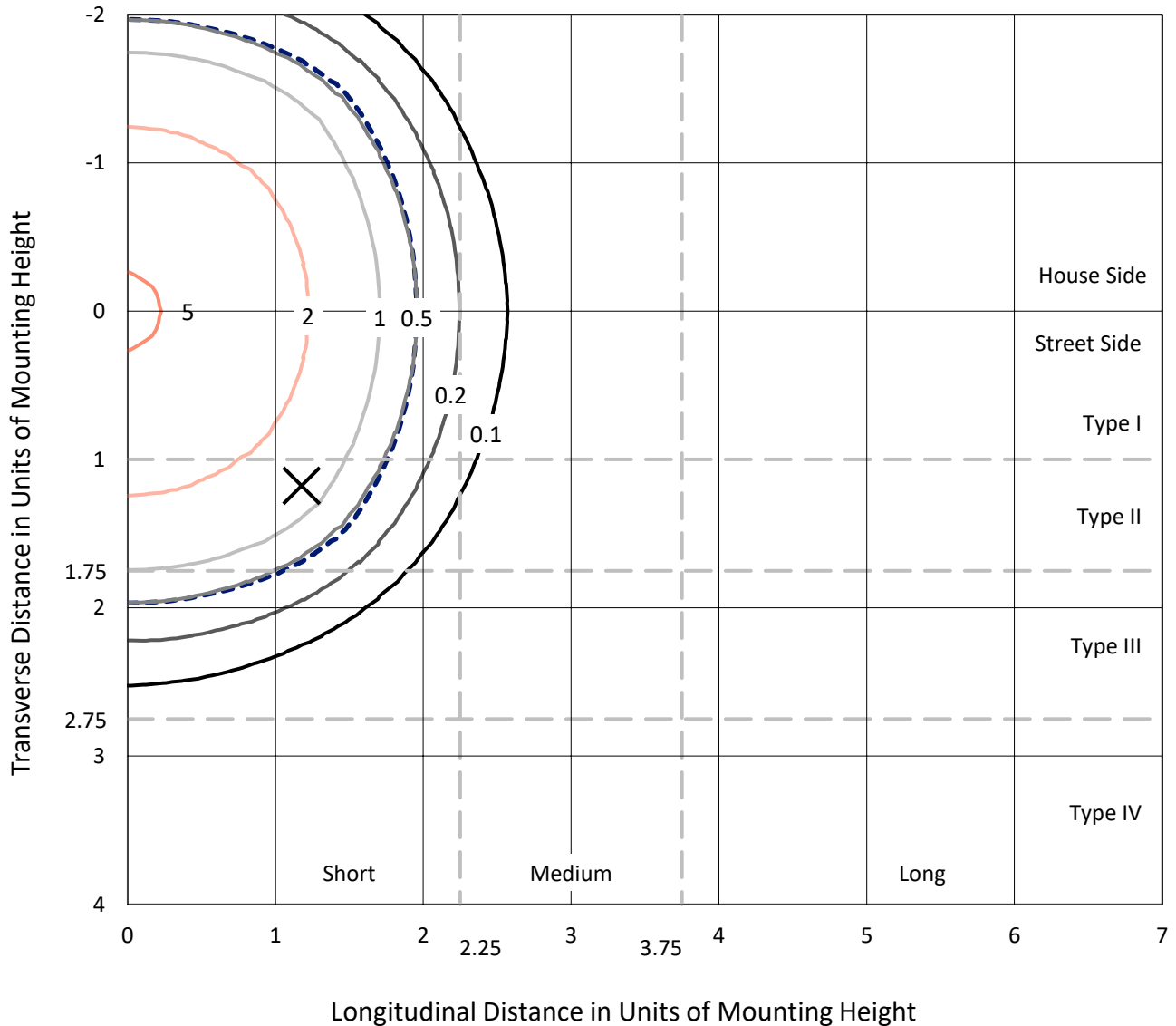
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

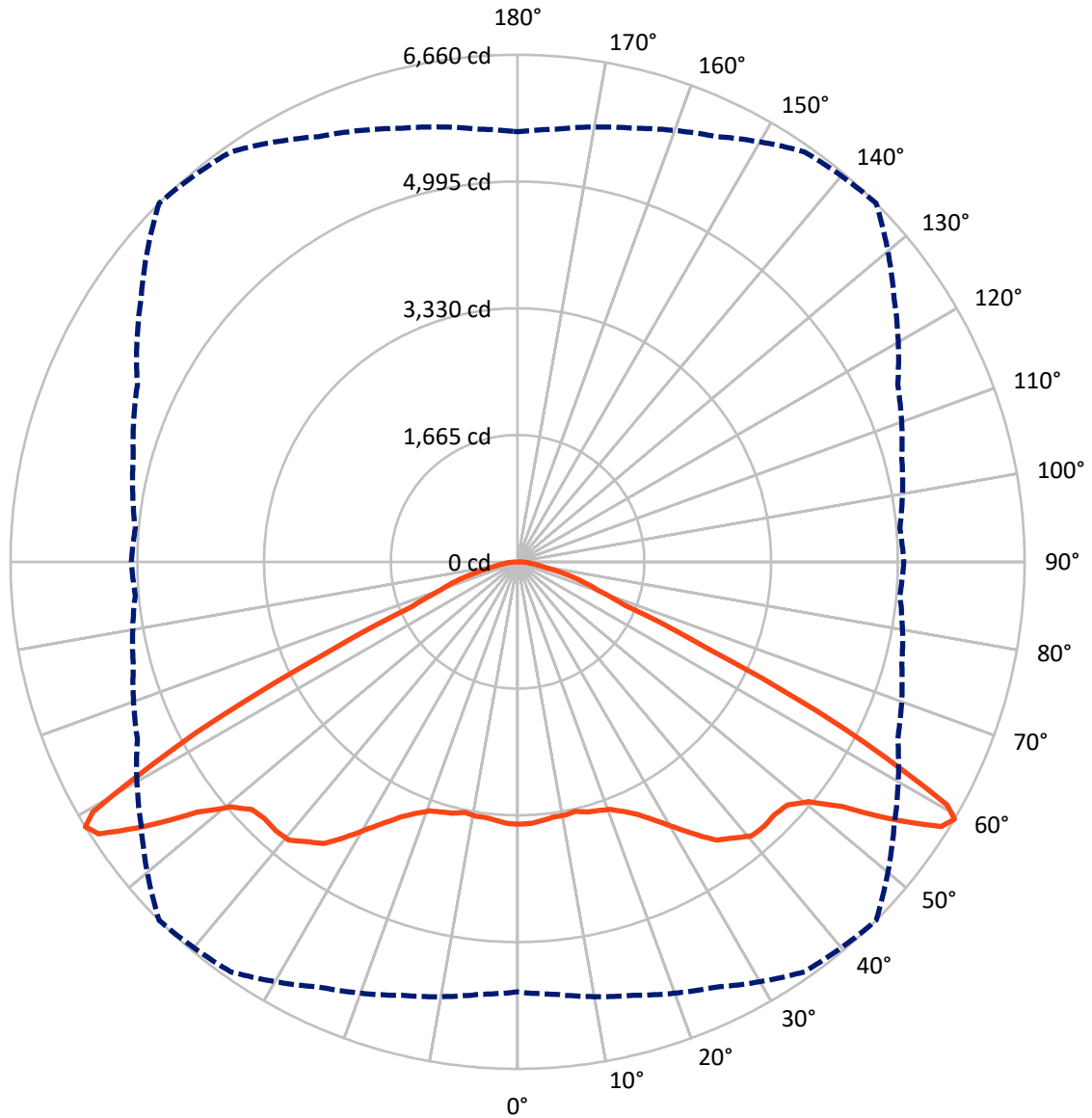
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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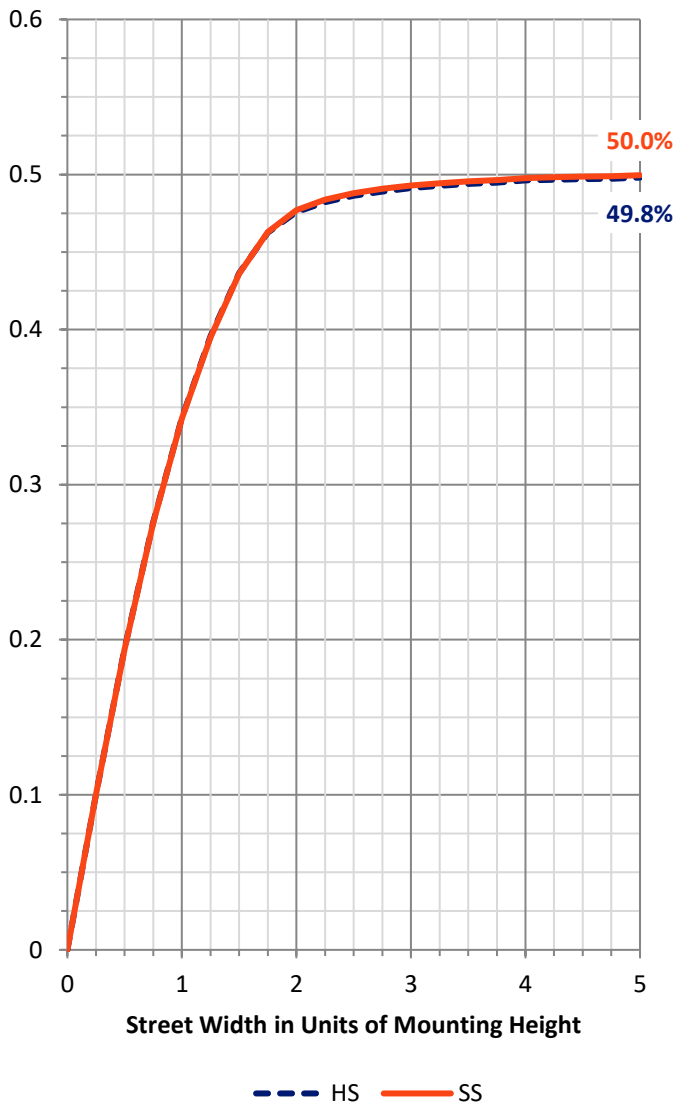
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8921.5	0.0	8921.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8921.5	0.0	8921.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17843.0	0.0	17843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.9	1.8
10°-20°	966.2	5.4
20°-30°	1687.0	9.5
30°-40°	2694.4	15.1
40°-50°	3670.3	20.6
50°-60°	4963.3	27.8
60°-70°	2721.9	15.3
70°-80°	696.3	3.9
80°-90°	118.8	0.7
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°	17843.0	100.0
0°-180°	17843.0	100.0

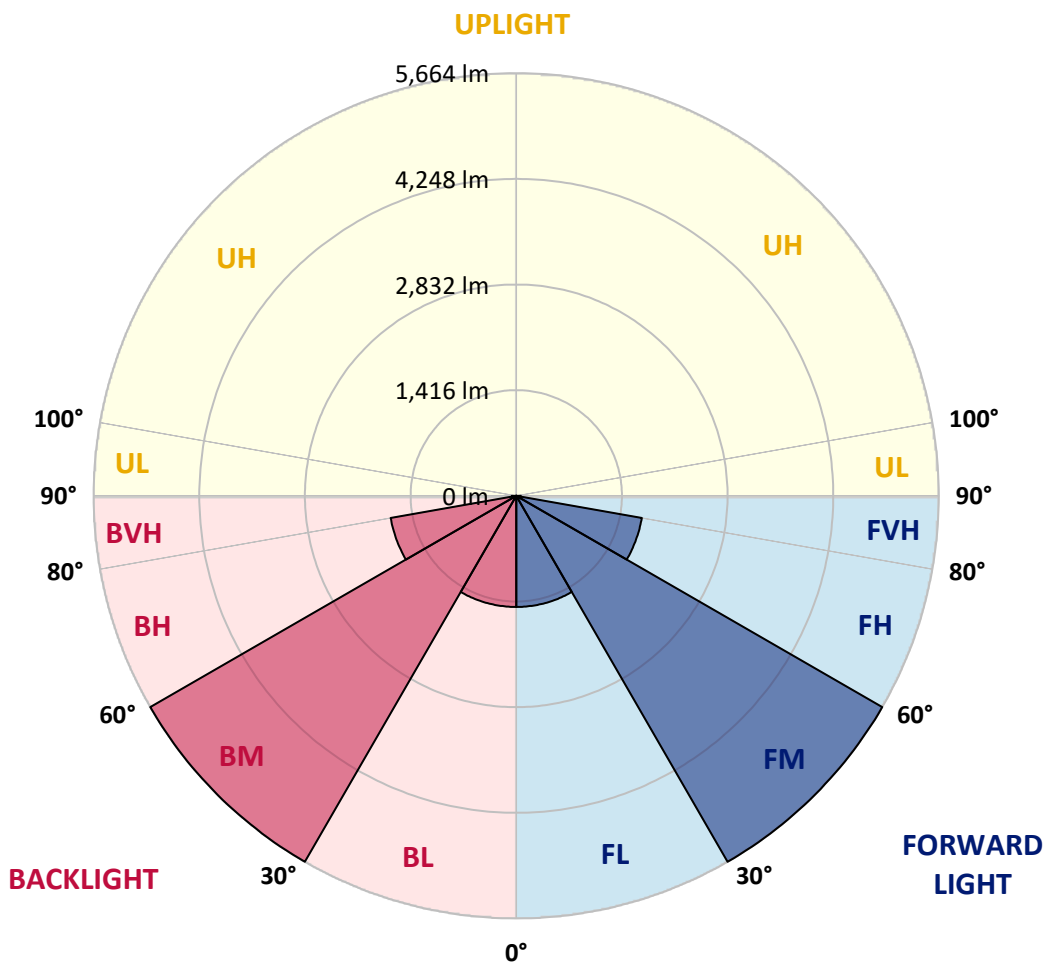


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.0	8.3			
FM (30°-60°)	5664.0	31.7			
FH (60°-80°)	1709.1	9.6			G1/1800
FVH (80°-90°)	59.4	0.3			G1/100
BL (0°-30°)	1489.0	8.3	B3/2500		
BM (30°-60°)	5664.0	31.7	B4/8500		
BH (60°-80°)	1709.1	9.6	B3/2500		G1/1800
BVH (80°-90°)	59.4	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°	3446.4	3446.4	3446.4	3446.4	3446.4	3446.4	3446.4	3446.4	3446.4	3446.4	3446.4
2.5°	3425.8	3451.0	3432.7	3448.7	3446.4	3439.6	3428.1	3421.3	3412.1	3425.8	3403.0
5°	3412.1	3432.7	3453.3	3425.8	3425.8	3412.1	3405.2	3391.5	3391.5	3389.2	3387.0
7.5°	3435.0	3414.4	3405.2	3409.8	3414.4	3384.7	3405.2	3377.8	3354.9	3370.9	3389.2
10°	3414.4	3423.5	3389.2	3405.2	3380.1	3384.7	3370.9	3389.2	3364.1	3364.1	3364.1
12.5°	3435.0	3409.8	3421.3	3409.8	3403.0	3364.1	3382.4	3361.8	3359.5	3382.4	3361.8
15°	3476.1	3435.0	3425.8	3403.0	3409.8	3409.8	3391.5	3393.8	3368.7	3382.4	3387.0
17.5°	3462.4	3439.6	3432.7	3405.2	3428.1	3435.0	3400.7	3377.8	3393.8	3391.5	3389.2
20°	3473.9	3483.0	3476.1	3480.7	3489.9	3471.6	3439.6	3407.5	3387.0	3416.7	3414.4
22.5°	3547.0	3537.9	3533.3	3528.7	3544.8	3563.0	3519.6	3469.3	3469.3	3489.9	3499.0
25°	3606.5	3604.2	3601.9	3622.5	3677.4	3677.4	3622.5	3558.5	3542.5	3556.2	3544.8
27.5°	3693.4	3718.6	3709.4	3746.0	3826.0	3844.3	3771.2	3695.7	3652.2	3636.2	3656.8
30°	3892.4	3862.6	3869.5	3908.4	3979.3	4038.7	3926.7	3846.6	3787.2	3784.9	3794.0
32.5°	4025.0	4047.9	4068.5	4105.1	4217.1	4262.9	4127.9	3997.6	3961.0	3940.4	3947.3
35°	4290.3	4269.7	4265.1	4301.7	4413.8	4489.3	4320.0	4205.7	4157.7	4203.4	4203.4
37.5°	4541.9	4484.7	4441.2	4489.3	4592.2	4601.3	4457.2	4395.5	4370.3	4422.9	4420.6
40°	4660.8	4656.2	4555.6	4583.0	4720.2	4734.0	4599.0	4525.8	4521.3	4589.9	4658.5
42.5°	4784.3	4740.8	4640.2	4658.5	4743.1	4747.7	4619.6	4599.0	4649.3	4715.7	4720.2
45°	4804.9	4768.3	4704.2	4658.5	4720.2	4734.0	4658.5	4672.2	4676.8	4756.8	4756.8
47.5°	4846.0	4841.4	4804.9	4770.6	4782.0	4770.6	4722.5	4743.1	4811.7	4850.6	4832.3
50°	4960.4	4912.3	4948.9	4919.2	4921.5	4953.5	4910.1	4930.6	4916.9	4882.6	4859.7
52.5°	5211.9	5189.1	5221.1	5241.7	5264.5	5337.7	5287.4	5177.6	5074.7	4983.2	4980.9
55°	5580.1	5596.1	5657.9	5763.1	5852.3	5968.9	5726.5	5463.5	5298.8	5154.8	5163.9
57.5°	5927.7	5916.3	6000.9	6241.1	6501.8	6561.2	6085.5	5710.5	5442.9	5351.4	5312.6
59°	5648.7	5703.6	5895.7	6163.3	6572.7	6659.6	6037.5	5509.2	5225.7	5040.4	5072.4
60°	5209.6	5230.2	5401.7	5774.5	6328.0	6476.6	5715.1	5198.2	4820.9	4713.4	4761.4
62.5°	3682.0	3666.0	3789.5	4093.6	4589.9	4791.1	4249.1	3885.5	3647.7	3528.7	3556.2
65°	1957.6	2030.8	2081.1	2270.9	2533.9	2746.6	2522.5	2364.7	2232.1	2133.7	2131.4
67.5°	1321.8	1312.7	1324.1	1367.6	1456.8	1516.2	1511.7	1431.6	1420.2	1401.9	1422.5
70°	1113.7	1109.2	1088.6	1088.6	1106.9	1120.6	1136.6	1145.8	1164.1	1186.9	1184.6
72.5°	903.3	891.9	878.2	871.3	894.2	901.1	921.6	930.8	946.8	944.5	965.1
75°	596.9	596.9	612.9	631.2	638.1	651.8	654.1	681.5	681.5	686.1	667.8
77.5°	333.9	324.7	336.2	354.5	370.5	395.6	420.8	441.4	452.8	448.2	448.2
80°	194.4	194.4	205.8	226.4	247.0	269.9	288.2	304.2	315.6	311.0	301.9
82.5°	121.2	121.2	132.6	153.2	169.2	183.0	208.1	228.7	242.4	237.8	226.4
85°	61.7	61.7	75.5	89.2	109.8	118.9	116.6	107.5	105.2	93.8	93.8
87.5°	16.0	16.0	22.9	25.2	20.6	22.9	22.9	22.9	22.9	22.9	25.2
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)