

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: P528692

Luminaire Tested: **GALN-SA3D-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20801 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

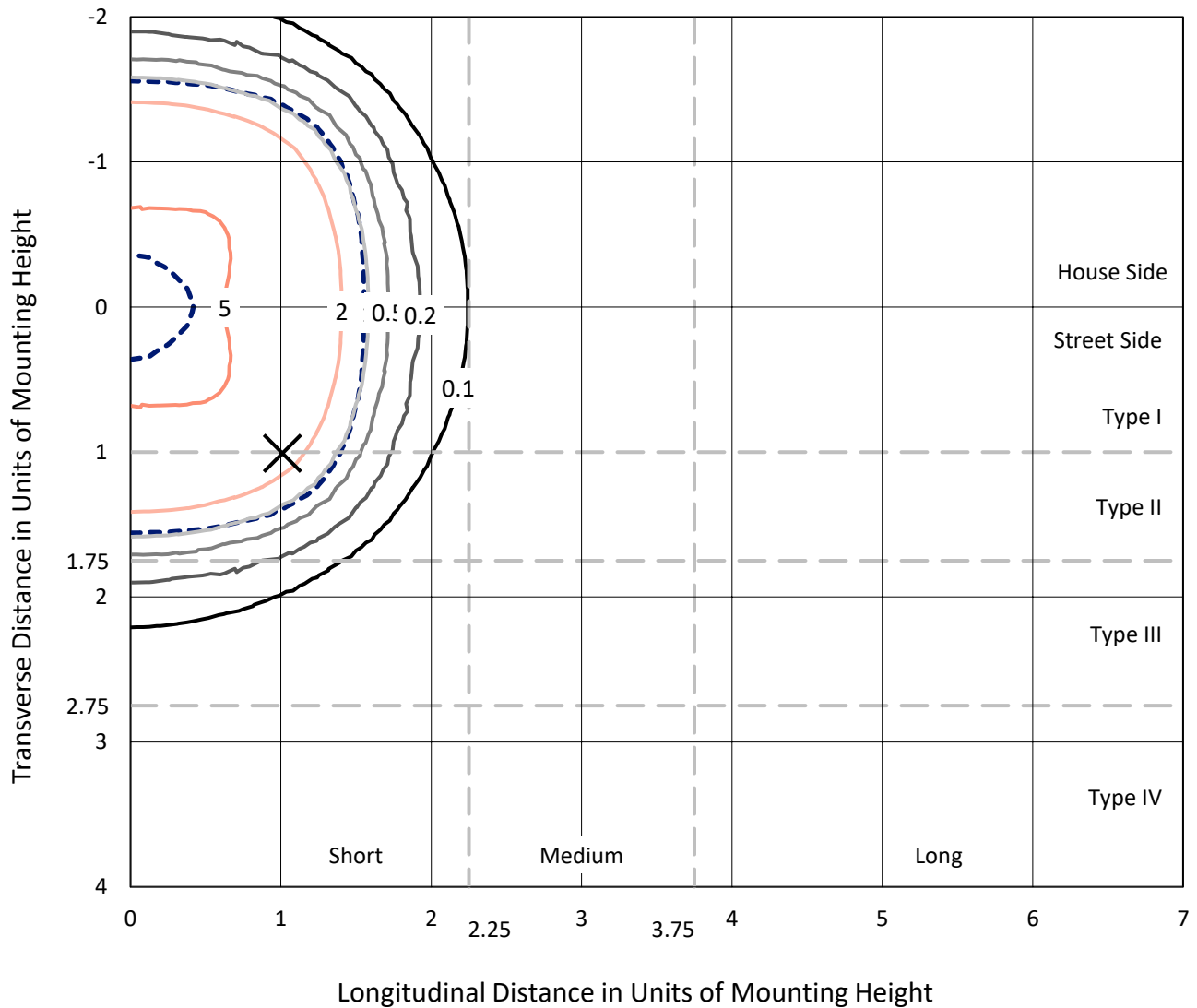
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

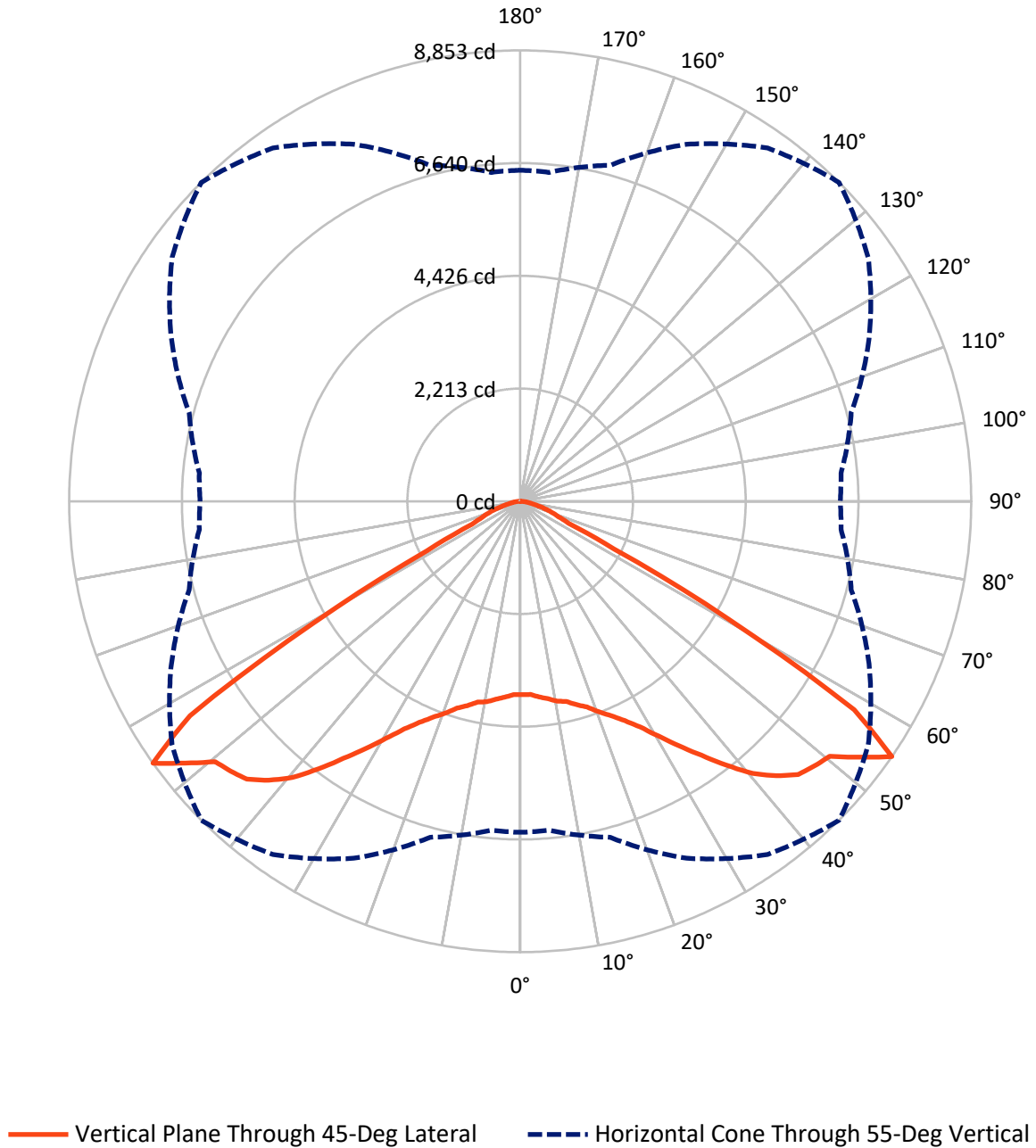
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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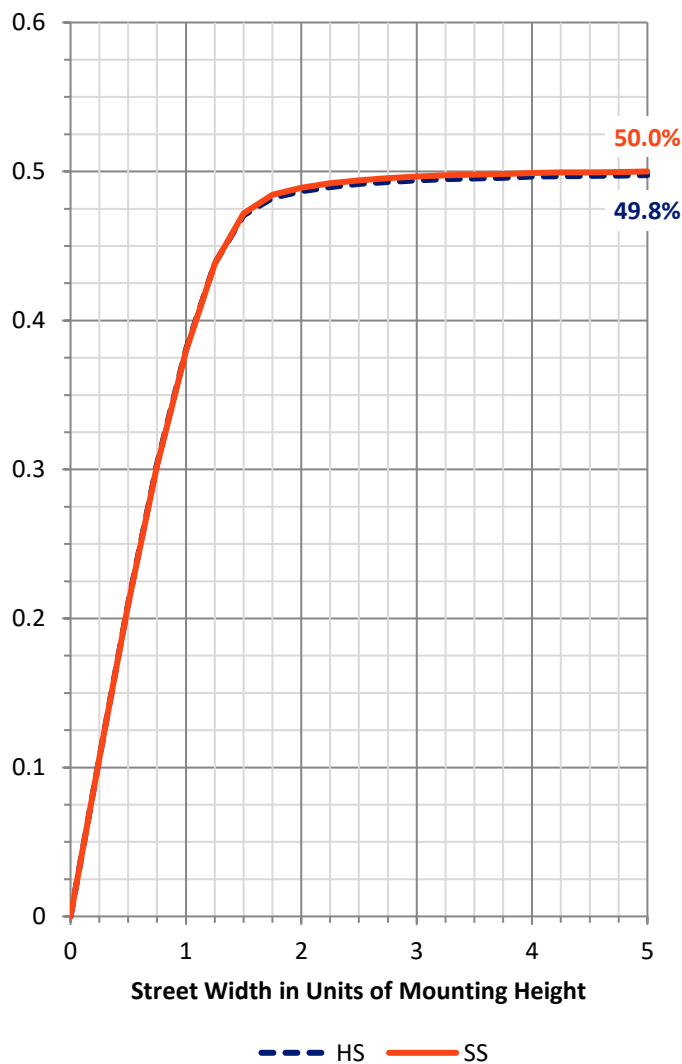
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10400.5	0.0	10400.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10400.5	0.0	10400.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20801.0	0.0	20801.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.0	1.8
10°-20°	1175.6	5.7
20°-30°	2192.1	10.5
30°-40°	3670.3	17.6
40°-50°	5711.3	27.5
50°-60°	5930.1	28.5
60°-70°	1257.6	6.0
70°-80°	414.2	2.0
80°-90°	78.9	0.4
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°	20801.0	100.0
0°-180°	20801.0	100.0

**Coefficient of Utilization**



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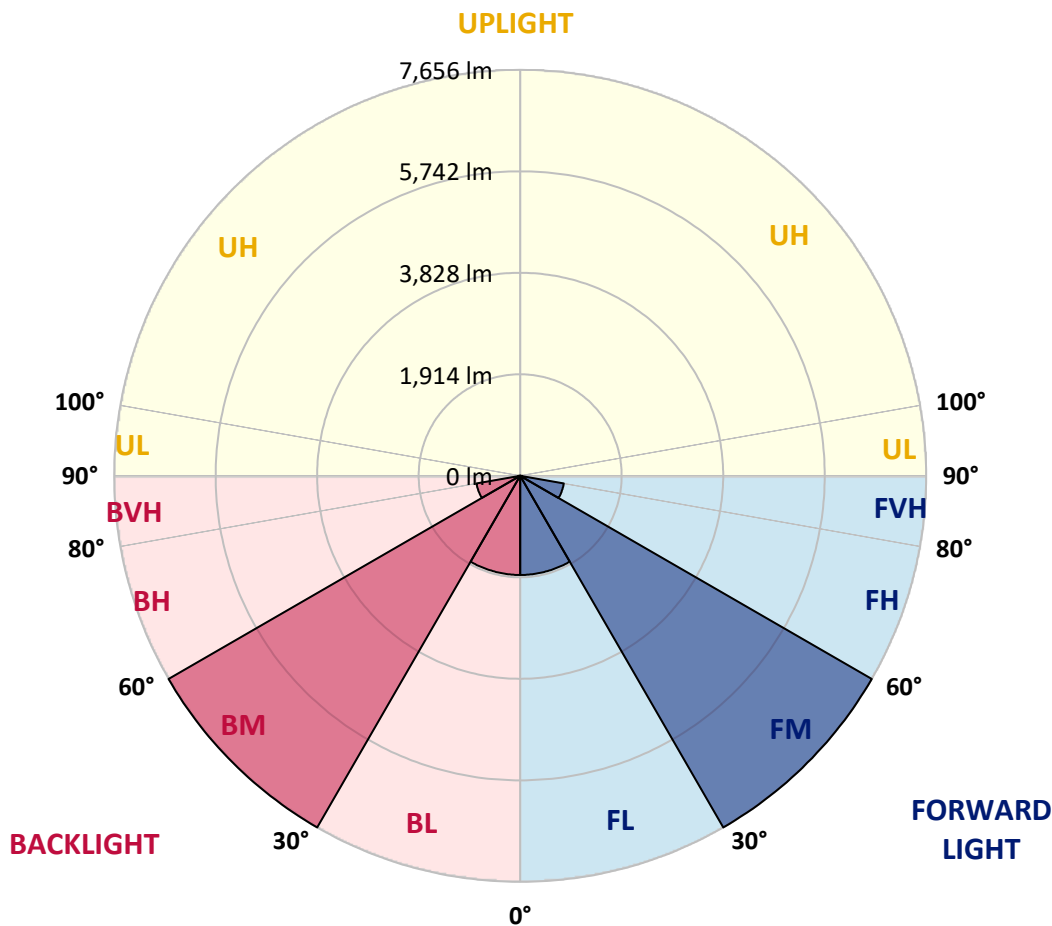
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1869.4	9.0			
FM (30°-60°)	7655.8	36.8			
FH (60°-80°)	835.9	4.0			G1/1800
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	1869.4	9.0	B3/2500		
BM (30°-60°)	7655.8	36.8	B4/8500		
BH (60°-80°)	835.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	39.4	0.2			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°	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0
2.5°	3843.2	3825.6	3795.4	3818.1	3835.7	3798.0	3813.0	3820.6	3815.5	3795.4	3803.0
5°	3898.5	3888.4	3863.3	3880.9	3858.3	3858.3	3843.2	3823.1	3853.3	3848.2	3860.8
7.5°	3898.5	3885.9	3936.2	3903.5	3913.6	3913.6	3888.4	3868.3	3883.4	3860.8	3848.2
10°	3976.4	3994.0	3971.4	3978.9	3973.9	3991.5	3953.8	3941.2	3928.7	3921.1	3906.0
12.5°	4069.4	4056.8	4064.4	4059.4	4077.0	4031.7	4009.1	3981.4	4004.1	3971.4	3994.0
15°	4144.8	4137.3	4144.8	4164.9	4147.3	4144.8	4104.6	4077.0	4041.8	4049.3	4014.1
17.5°	4247.9	4240.3	4242.8	4260.4	4257.9	4245.4	4215.2	4162.4	4149.8	4129.7	4107.1
20°	4401.2	4388.6	4383.6	4391.1	4403.7	4413.8	4353.4	4333.3	4290.6	4257.9	4220.2
22.5°	4531.9	4526.9	4547.0	4514.3	4542.0	4572.1	4514.3	4504.3	4398.7	4381.1	4340.9
25°	4712.9	4705.3	4692.8	4740.5	4773.2	4770.7	4715.4	4660.1	4579.7	4559.6	4559.6
27.5°	4903.9	4861.2	4926.5	4939.1	4996.9	5014.5	4966.7	4886.3	4810.9	4768.2	4778.2
30°	5142.7	5102.5	5117.6	5208.0	5283.5	5348.8	5228.2	5110.0	5004.4	4929.0	4916.5
32.5°	5381.5	5341.3	5386.5	5474.5	5625.3	5723.3	5605.2	5399.1	5275.9	5165.3	5187.9
35°	5575.0	5605.2	5678.1	5811.3	5967.1	6125.5	5937.0	5778.6	5602.7	5479.5	5497.1
37.5°	5886.7	5979.7	6037.5	6190.8	6412.0	6575.4	6379.4	6173.2	5984.7	5823.9	5768.6
40°	6293.9	6356.7	6422.1	6603.1	6864.5	7027.8	6841.8	6572.9	6386.9	6221.0	6213.5
42.5°	6741.3	6801.6	6869.5	7090.7	7246.5	7369.7	7198.8	7055.5	6849.4	6718.7	6711.1
45°	7261.6	7218.9	7294.3	7440.1	7570.8	7651.2	7540.6	7470.2	7321.9	7201.3	7188.7
47.5°	7608.5	7570.8	7706.5	7837.2	7857.3	7769.3	7792.0	7857.3	7701.5	7502.9	7565.7
50°	7809.6	7809.6	7900.0	8020.7	7983.0	7869.9	8048.3	8053.4	7897.5	7721.6	7721.6
52.5°	7460.2	7538.1	7794.5	8189.1	8314.8	8347.5	8307.2	8136.3	7729.1	7369.7	7352.1
55°	6500.0	6482.4	6829.3	7734.1	8465.6	8852.7	8339.9	7553.2	6726.2	6321.5	6281.3
57.5°	4227.8	4247.9	4765.7	5688.1	7007.7	7729.1	6864.5	5758.5	4765.7	4207.7	4260.4
60°	1902.7	1970.6	2284.8	2973.5	4107.1	4695.3	4117.2	3124.3	2397.9	2081.2	2108.9
62.5°	1093.4	1106.0	1118.5	1327.1	1749.4	2068.6	1817.3	1402.6	1236.7	1181.4	1181.4
65°	922.5	914.9	917.4	935.0	980.3	1045.6	1018.0	980.3	985.3	980.3	972.7
67.5°	784.2	794.3	786.7	799.3	801.8	811.9	829.5	844.5	847.1	852.1	847.1
70°	643.5	646.0	651.0	661.1	663.6	671.1	696.2	708.8	716.4	716.4	726.4
72.5°	492.7	490.1	495.2	505.2	517.8	520.3	542.9	560.5	570.6	558.0	560.5
75°	324.2	326.8	334.3	341.8	359.4	377.0	384.6	402.2	404.7	409.7	397.1
77.5°	193.5	198.6	206.1	221.2	236.3	251.4	268.9	281.5	286.5	281.5	266.4
80°	125.7	125.7	135.7	148.3	165.9	178.5	188.5	198.6	206.1	198.6	193.5
82.5°	77.9	77.9	90.5	105.6	118.1	125.7	140.8	153.3	160.9	155.8	148.3
85°	40.2	42.7	52.8	65.4	75.4	80.4	77.9	70.4	62.8	60.3	55.3
87.5°	12.6	12.6	15.1	15.1	12.6	12.6	15.1	12.6	15.1	15.1	15.1
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)