

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: P529730

Luminaire Tested: **GALN-SA4D-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529730
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-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 21464 lumens
Efficiency: N/A
Efficacy: 87.6 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



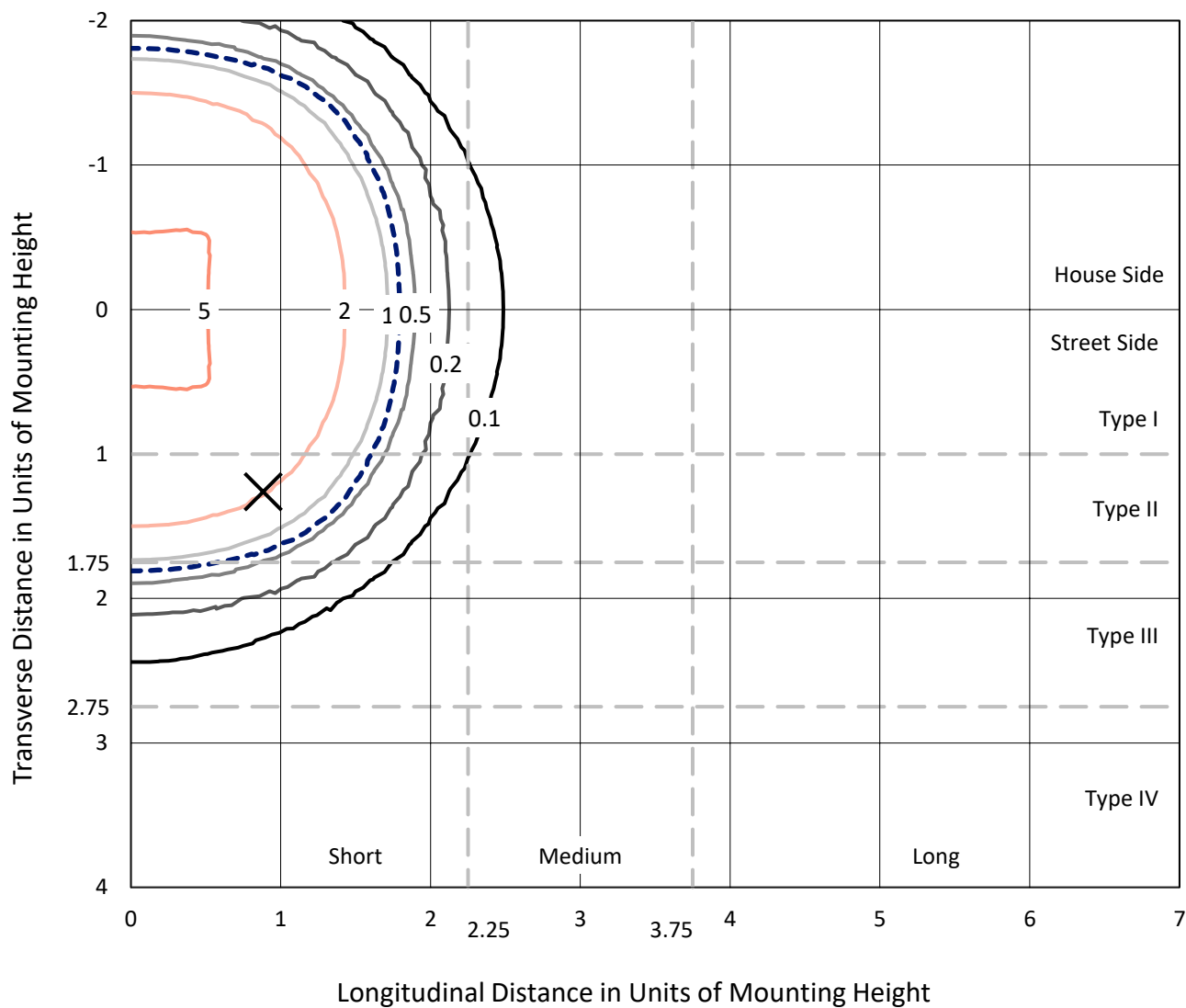
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

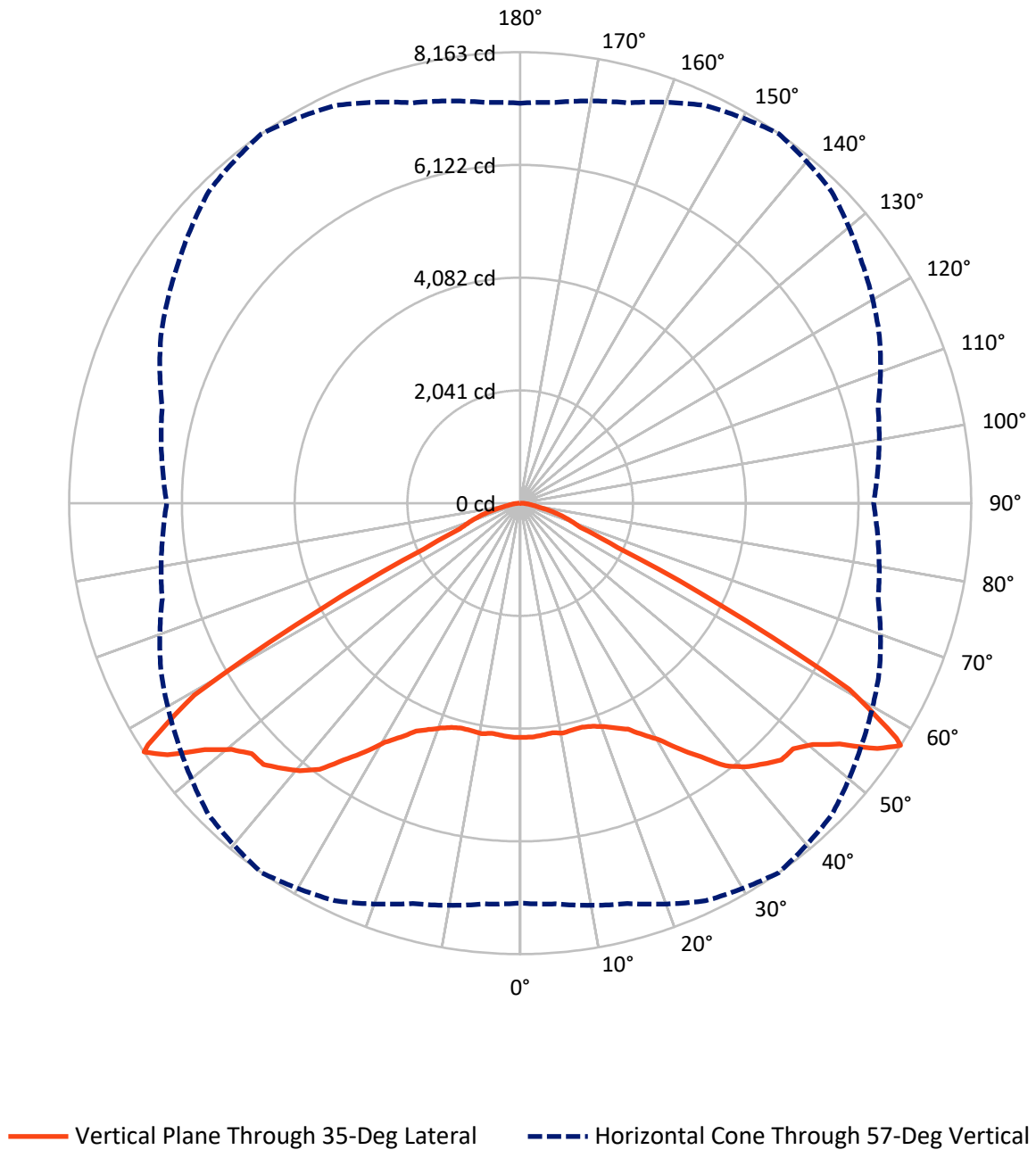


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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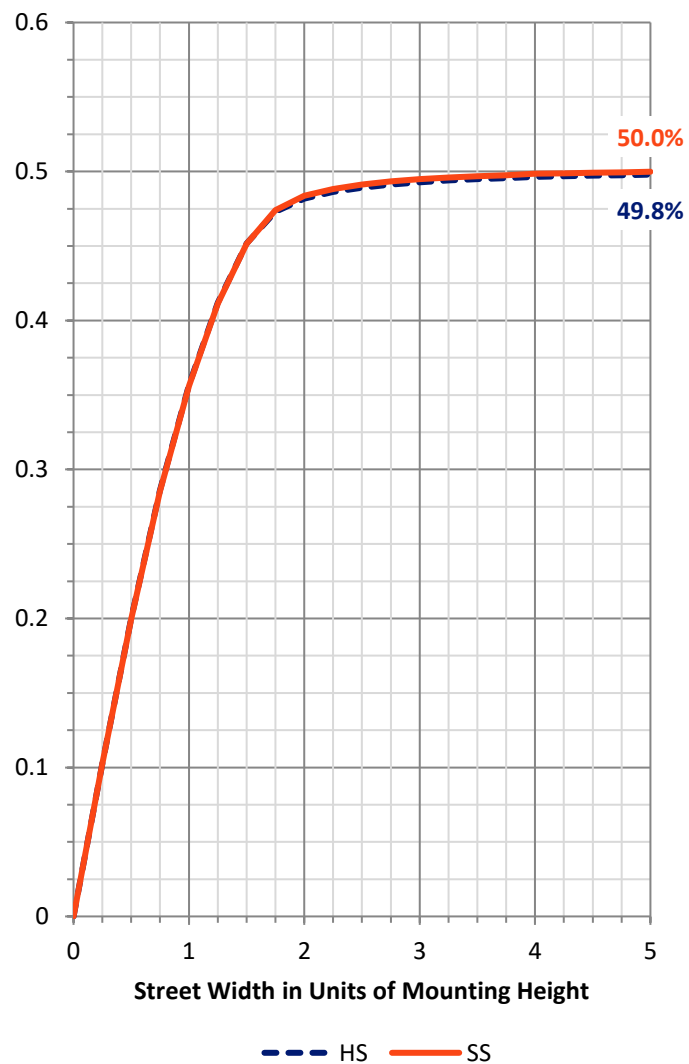
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10732.0	0.0	10732.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10732.0	0.0	10732.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21464.0	0.0	21464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	1.9
10°-20°	1190.2	5.5
20°-30°	2078.7	9.7
30°-40°	3406.0	15.9
40°-50°	4994.1	23.3
50°-60°	6290.4	29.3
60°-70°	2365.8	11.0
70°-80°	629.0	2.9
80°-90°	107.9	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°	21464.0	100.0
0°-180°	21464.0	100.0

Coefficient of Utilization



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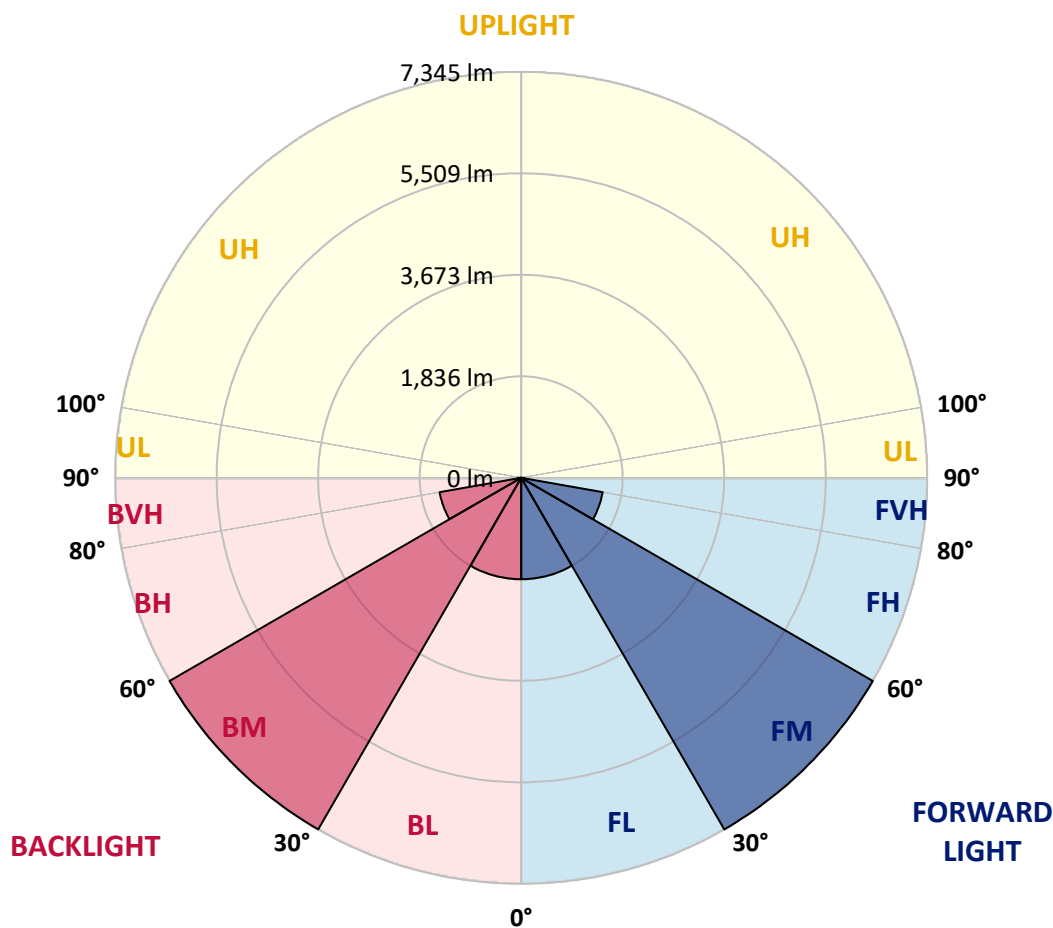
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.4	8.6			
FM	(30°-60°)	7345.3	34.2			
FH	(60°-80°)	1497.4	7.0			G1/1800
FVH	(80°-90°)	53.9	0.3			G1/100
BL	(0°-30°)	1835.4	8.6	B3/2500		
BM	(30°-60°)	7345.3	34.2	B4/8500		
BH	(60°-80°)	1497.4	7.0	B3/2500		G1/1800
BVH	(80°-90°)	53.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4239.0	4239.0	4239.0	4239.0	4239.0	4239.0	4239.0	4239.0	4239.0	4239.0	4239.0
2.5°	4217.8	4260.1	4241.6	4231.0	4239.0	4225.8	4204.6	4228.4	4223.1	4202.0	4194.0
5°	4207.2	4239.0	4217.8	4239.0	4217.8	4254.8	4244.3	4204.6	4252.2	4207.2	4223.1
7.5°	4199.3	4209.9	4215.2	4204.6	4196.7	4241.6	4217.8	4199.3	4172.9	4164.9	4178.2
10°	4180.8	4207.2	4167.6	4220.5	4231.0	4199.3	4199.3	4164.9	4143.8	4130.6	4175.5
12.5°	4228.4	4183.4	4178.2	4204.6	4212.5	4225.8	4188.7	4170.2	4130.6	4135.9	4127.9
15°	4172.9	4191.4	4194.0	4199.3	4207.2	4239.0	4204.6	4164.9	4149.1	4093.5	4098.8
17.5°	4194.0	4175.5	4194.0	4254.8	4244.3	4268.1	4231.0	4170.2	4133.2	4101.5	4143.8
20°	4231.0	4223.1	4231.0	4305.1	4318.3	4339.5	4307.7	4252.2	4180.8	4143.8	4164.9
22.5°	4270.7	4265.4	4270.7	4342.1	4418.8	4445.2	4413.5	4283.9	4246.9	4178.2	4154.4
25°	4342.1	4347.4	4402.9	4482.3	4532.5	4582.8	4524.6	4432.0	4313.0	4270.7	4220.5
27.5°	4500.8	4514.0	4545.7	4662.1	4749.4	4794.3	4712.3	4585.4	4511.4	4424.1	4410.9
30°	4696.5	4696.5	4752.0	4852.5	4971.5	5040.2	4939.7	4789.0	4699.1	4651.5	4622.4
32.5°	4955.6	4926.5	4947.7	5124.9	5310.0	5368.1	5233.3	5048.2	4905.4	4841.9	4820.8
35°	5177.7	5196.3	5243.9	5434.3	5640.5	5775.4	5563.8	5323.2	5177.7	5119.6	5109.0
37.5°	5466.0	5497.7	5521.5	5783.3	6031.9	6082.1	5878.5	5685.5	5508.3	5460.7	5434.3
40°	5873.2	5852.1	5860.0	6053.0	6277.8	6309.6	6108.6	5971.1	5825.6	5796.5	5796.5
42.5°	6209.1	6185.3	6211.7	6283.1	6455.0	6431.2	6320.1	6219.6	6158.8	6127.1	6158.8
45°	6412.7	6407.4	6455.0	6507.9	6629.5	6550.2	6462.9	6478.8	6420.6	6367.7	6365.1
47.5°	6634.8	6600.4	6658.6	6737.9	6845.4	6608.4	6603.1	6637.5	6618.9	6526.4	6497.3
50°	6743.2	6730.0	6822.6	6915.1	6864.9	6780.3	6798.8	6854.3	6616.3	6492.0	6420.6
52.5°	7034.1	7036.8	7213.9	7264.2	7243.0	7118.7	7158.4	7007.7	6727.4	6552.8	6560.8
55°	7491.6	7473.1	7671.4	7819.5	7843.3	7684.6	7494.2	7282.7	6931.0	6753.8	6700.9
57°	7240.4	7282.7	7502.2	7941.1	8163.3	7975.5	7560.4	7174.3	6706.2	6492.0	6396.8
57.5°	6904.5	6973.3	7354.1	7795.7	8028.4	8012.5	7478.4	6973.3	6555.5	6222.3	6230.2
60°	5058.7	5072.0	5415.7	6116.5	6843.7	6859.6	6209.1	5540.0	5074.6	4712.3	4762.6
62.5°	2668.2	2729.0	2866.5	3429.8	4059.2	4212.5	3818.5	3474.7	3072.8	2797.8	2824.2
65°	1412.1	1404.2	1470.3	1629.0	1938.3	2017.7	1964.8	1692.4	1552.3	1507.3	1510.0
67.5°	1147.7	1160.9	1153.0	1160.9	1182.0	1216.4	1208.5	1219.1	1227.0	1240.2	1237.6
70°	973.1	973.1	978.4	981.1	981.1	996.9	1015.5	1049.8	1052.5	1065.7	1071.0
72.5°	766.9	761.6	769.5	788.0	790.7	803.9	830.3	851.5	859.4	859.4	843.6
75°	520.9	526.2	536.8	552.7	568.5	592.3	613.5	626.7	632.0	624.1	616.1
77.5°	293.5	298.8	306.8	330.6	349.1	370.2	394.0	407.2	420.5	423.1	407.2
80°	174.5	174.5	187.8	206.3	227.4	248.6	269.7	285.6	290.9	290.9	283.0
82.5°	105.8	108.4	119.0	137.5	156.0	169.2	187.8	201.0	211.6	208.9	203.6
85°	55.5	55.5	66.1	82.0	95.2	108.4	108.4	100.5	95.2	82.0	76.7
87.5°	18.5	15.9	21.2	21.2	18.5	21.2	21.2	23.8	23.8	23.8	23.8
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)