

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: P529738

Luminaire Tested: **GALN-SA4D-830-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
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-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21309 lumens
Efficiency: N/A
Efficacy: 87.0 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): 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

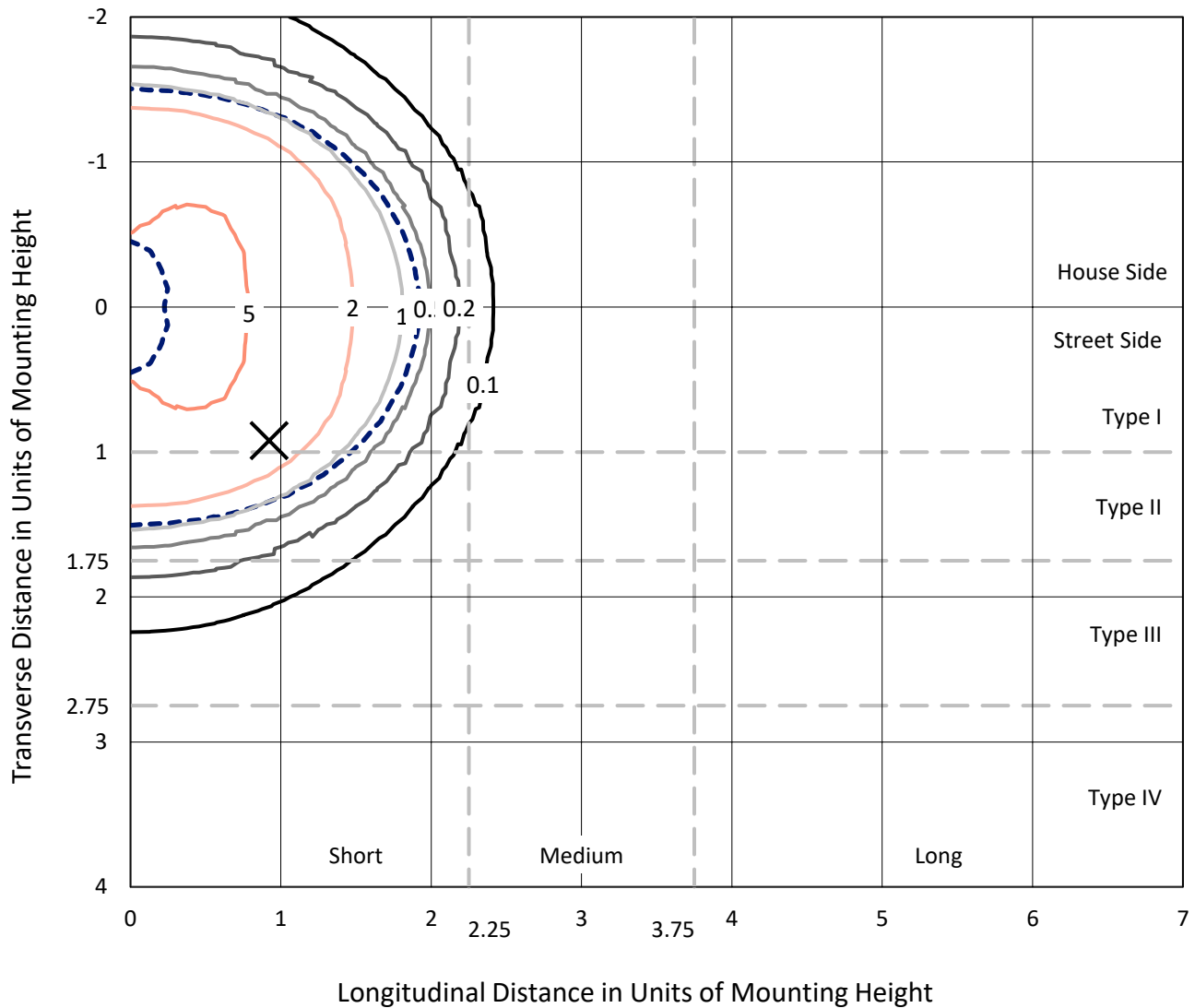


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

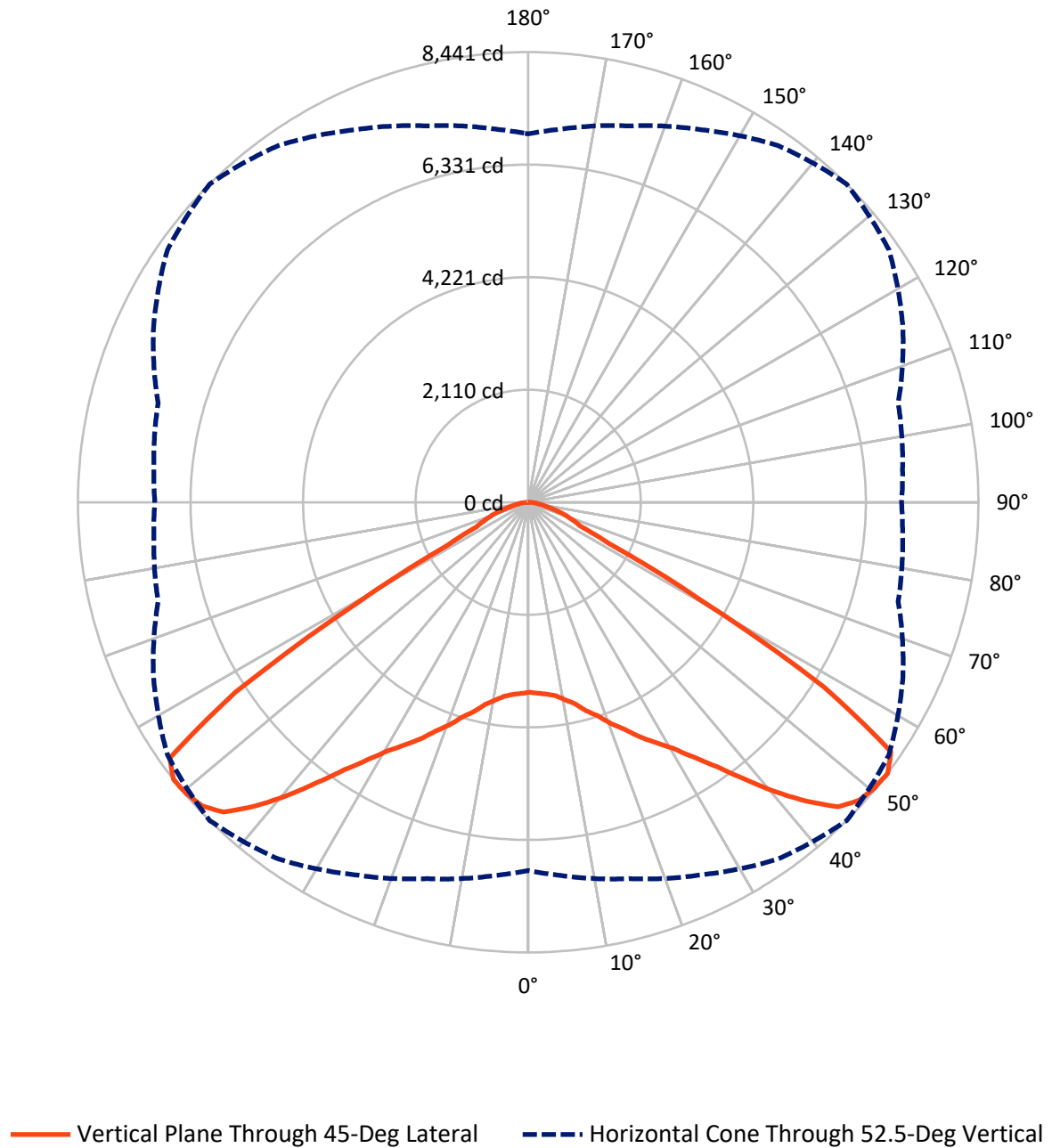


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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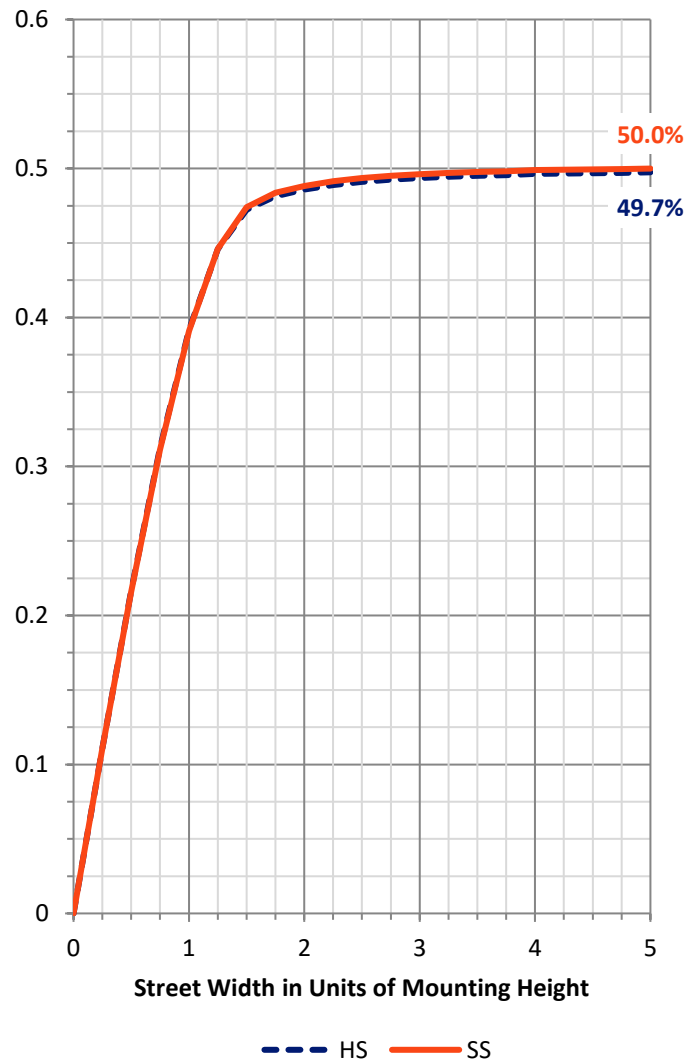
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10654.5	0.0	10654.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10654.5	0.0	10654.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21309.0	0.0	21309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.6
10°-20°	1150.0	5.4
20°-30°	2189.4	10.3
30°-40°	3759.3	17.6
40°-50°	5778.1	27.1
50°-60°	5867.6	27.5
60°-70°	1635.2	7.7
70°-80°	482.4	2.3
80°-90°	97.2	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°	21309.0	100.0
0°-180°	21309.0	100.0

Coefficient of Utilization



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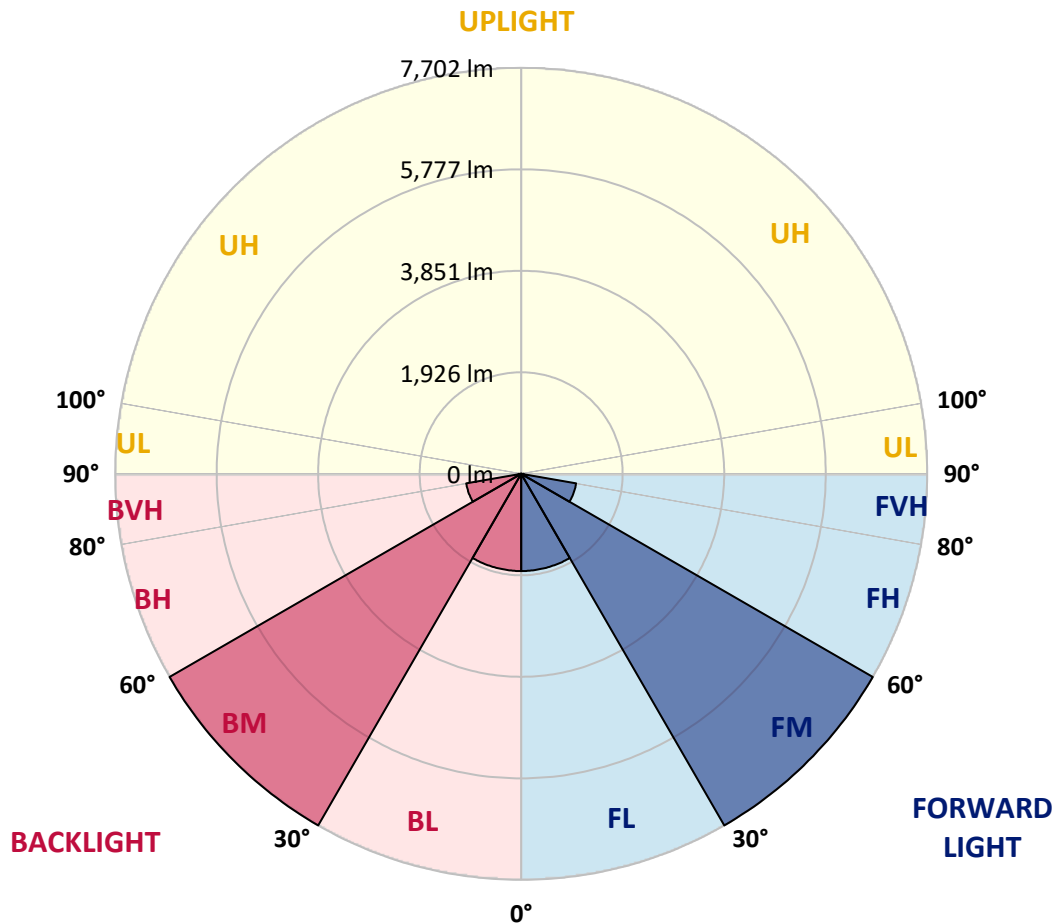
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1844.6	8.7			
FM	(30°-60°)	7702.5	36.1			
FH	(60°-80°)	1058.8	5.0			G1/1800
FVH	(80°-90°)	48.6	0.2			G1/100
BL	(0°-30°)	1844.6	8.7	B3/2500		
BM	(30°-60°)	7702.5	36.1	B4/8500		
BH	(60°-80°)	1058.8	5.0	B3/2500		G1/1800
BVH	(80°-90°)	48.6	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°	3562.1	3562.1	3562.1	3562.1	3562.1	3562.1	3562.1	3562.1	3562.1	3562.1	3562.1
2.5°	3570.0	3533.0	3546.2	3554.1	3588.5	3585.9	3577.9	3588.5	3599.1	3601.7	3596.5
5°	3567.4	3540.9	3551.5	3559.4	3593.8	3612.3	3607.0	3652.0	3683.7	3675.8	3715.5
7.5°	3546.2	3562.1	3548.9	3588.5	3617.6	3662.6	3710.2	3752.5	3792.1	3837.1	3845.0
10°	3593.8	3593.8	3617.6	3649.3	3726.0	3760.4	3829.2	3890.0	3966.7	4019.6	3998.4
12.5°	3644.1	3652.0	3652.0	3734.0	3797.4	3874.1	3937.6	4019.6	4128.0	4191.5	4223.2
15°	3694.3	3699.6	3726.0	3837.1	3932.3	4053.9	4112.1	4186.2	4247.0	4366.0	4368.6
17.5°	3739.3	3768.3	3847.7	3972.0	4091.0	4207.3	4299.9	4376.6	4429.5	4477.1	4466.5
20°	3908.5	3929.7	4011.6	4135.9	4313.1	4426.8	4458.6	4471.8	4506.2	4601.4	4572.3
22.5°	4072.5	4080.4	4157.1	4347.5	4471.8	4622.5	4656.9	4649.0	4662.2	4686.0	4728.3
25°	4241.7	4254.9	4360.7	4522.0	4696.6	4876.4	4905.5	4844.6	4826.1	4852.6	4855.2
27.5°	4458.6	4461.2	4596.1	4736.2	4934.6	5103.8	5148.8	5101.2	5013.9	5035.0	5069.4
30°	4733.6	4715.1	4849.9	5050.9	5259.8	5355.0	5431.7	5407.9	5312.7	5294.2	5265.1
32.5°	5050.9	5056.2	5177.8	5397.3	5534.8	5693.5	5775.5	5735.8	5675.0	5643.3	5661.8
35°	5497.8	5521.6	5603.6	5786.1	6008.2	6087.5	6217.1	6132.5	5973.8	6013.5	6047.9
37.5°	5865.4	5934.2	6087.5	6304.4	6436.6	6582.0	6629.6	6515.9	6399.6	6352.0	6465.7
40°	6428.7	6407.5	6576.8	6793.6	6989.3	7134.7	7073.9	6960.2	6672.0	6674.6	6706.3
42.5°	6912.6	6923.2	7052.8	7311.9	7579.0	7668.9	7475.9	7198.2	6878.2	6843.8	6912.6
45°	7319.8	7362.2	7436.2	7782.6	8044.4	8142.3	7785.3	7457.4	7029.0	6886.2	6999.9
47.5°	7465.3	7534.1	7695.4	8012.7	8271.9	8351.2	8065.6	7594.9	7169.1	6936.4	6997.2
50°	7486.5	7462.7	7727.1	8018.0	8245.4	8417.3	8166.1	7695.4	7134.7	7013.1	6994.6
52.5°	6907.3	7023.7	7306.6	7705.9	8166.1	8441.1	8256.0	7750.9	7182.3	7044.8	6999.9
55°	5590.4	5452.9	5968.5	6640.2	7486.5	8250.7	8224.3	7780.0	7211.4	7097.7	7036.9
57.5°	3120.5	3160.1	3451.0	4180.9	5273.0	6542.4	7311.9	7473.2	7198.2	7132.1	7163.8
60°	1443.9	1457.1	1581.4	1922.5	2599.5	3710.2	4723.0	5751.7	6225.0	6320.2	6320.2
62.5°	1076.3	1071.0	1102.7	1163.6	1306.4	1705.7	2276.9	3094.0	3744.5	4199.4	4318.4
65°	973.2	970.5	986.4	1007.5	1018.1	1073.6	1200.6	1451.8	1663.4	1785.0	1763.9
67.5°	851.5	848.9	854.2	867.4	885.9	915.0	946.7	999.6	1073.6	1068.4	1055.1
70°	687.6	687.6	695.5	706.1	727.2	761.6	798.6	835.6	899.1	912.3	909.7
72.5°	507.7	499.8	515.7	536.8	558.0	600.3	640.0	674.3	719.3	732.5	727.2
75°	322.6	327.9	338.5	362.3	399.3	428.4	470.7	499.8	528.9	539.5	542.1
77.5°	179.8	185.1	203.6	232.7	269.7	301.5	338.5	362.3	380.8	383.4	386.1
80°	108.4	111.1	129.6	156.0	187.8	222.1	251.2	275.0	290.9	283.0	280.3
82.5°	66.1	68.8	84.6	108.4	134.9	161.3	193.0	214.2	230.1	219.5	208.9
85°	34.4	37.0	50.2	66.1	87.3	100.5	100.5	89.9	87.3	82.0	79.3
87.5°	10.6	10.6	13.2	15.9	13.2	15.9	18.5	21.2	21.2	23.8	21.2
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)