

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: P528794

Luminaire Tested: **GALN-SA3D-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528794
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-SA3D-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 16198 lumens
Efficiency: N/A
Efficacy: 88.0 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



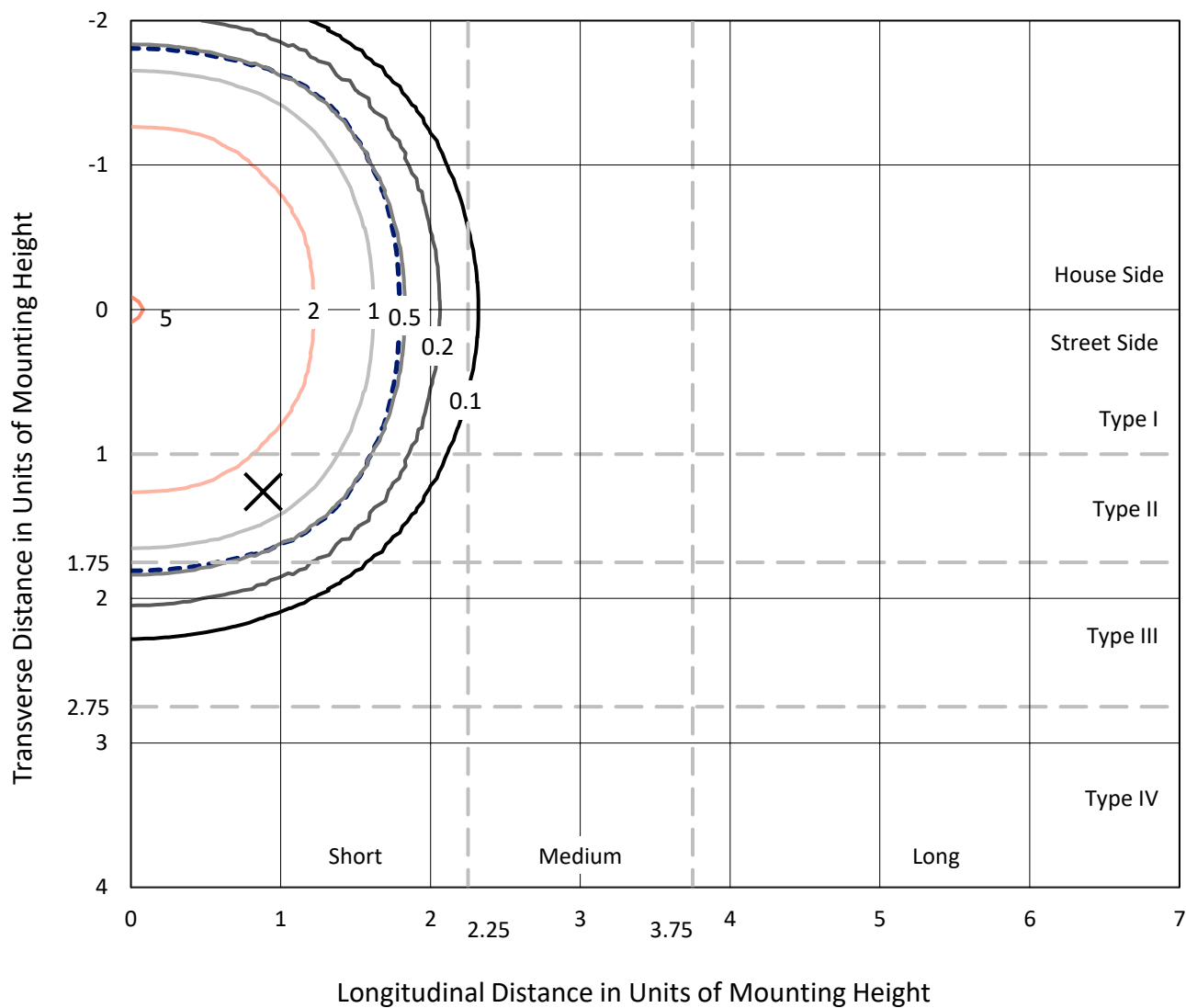
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

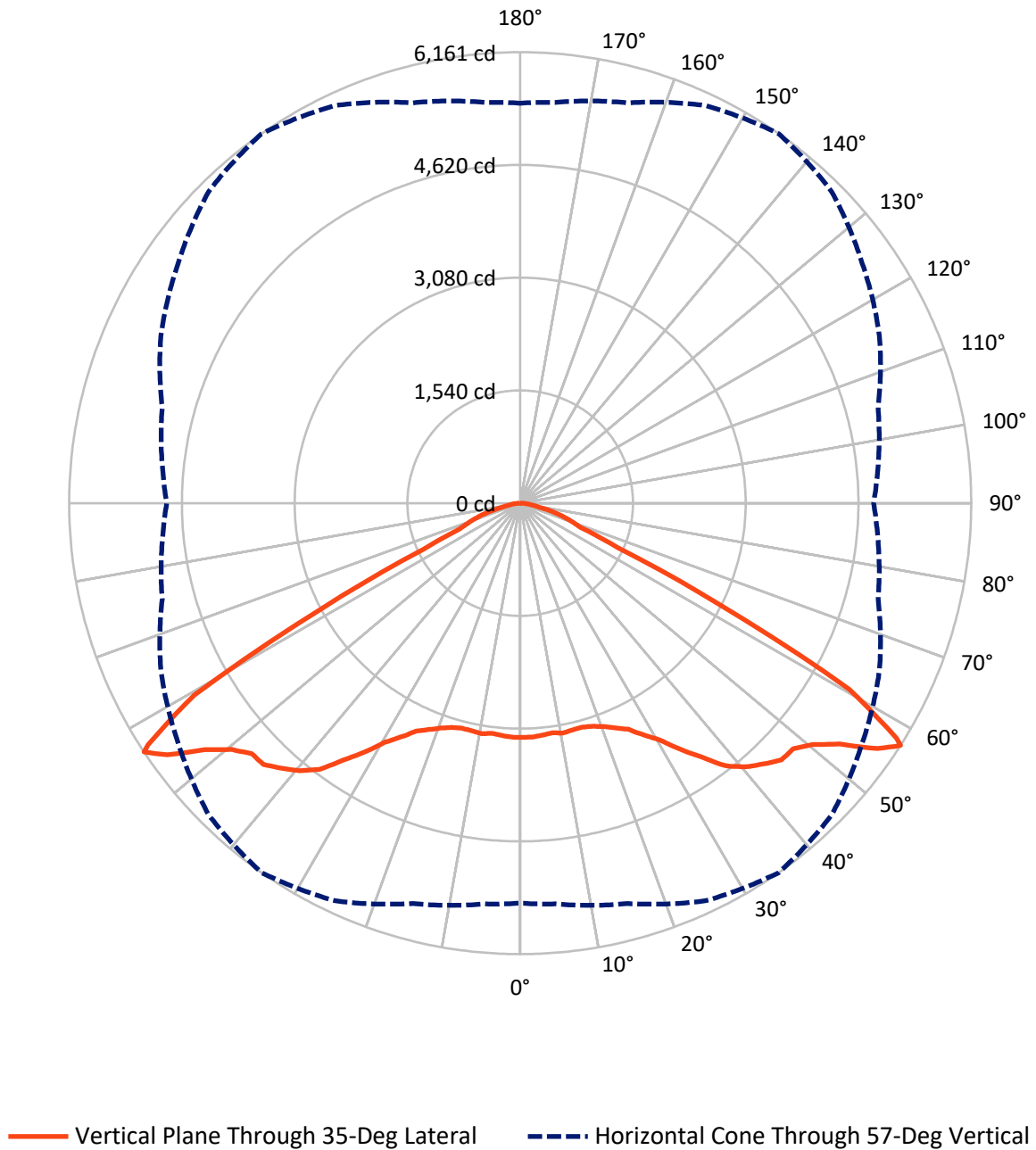


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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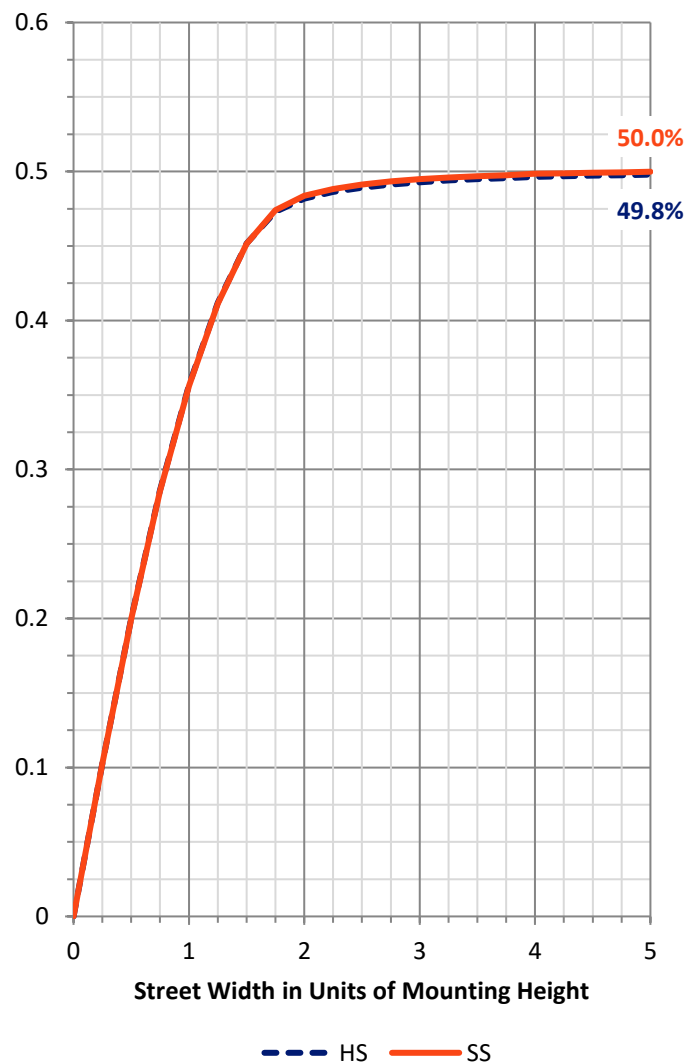
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8099.0	0.0	8099.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8099.0	0.0	8099.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16198.0	0.0	16198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.9
10°-20°	898.2	5.5
20°-30°	1568.7	9.7
30°-40°	2570.4	15.9
40°-50°	3768.8	23.3
50°-60°	4747.1	29.3
60°-70°	1785.4	11.0
70°-80°	474.7	2.9
80°-90°	81.4	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°	16198.0	100.0
0°-180°	16198.0	100.0

Coefficient of Utilization



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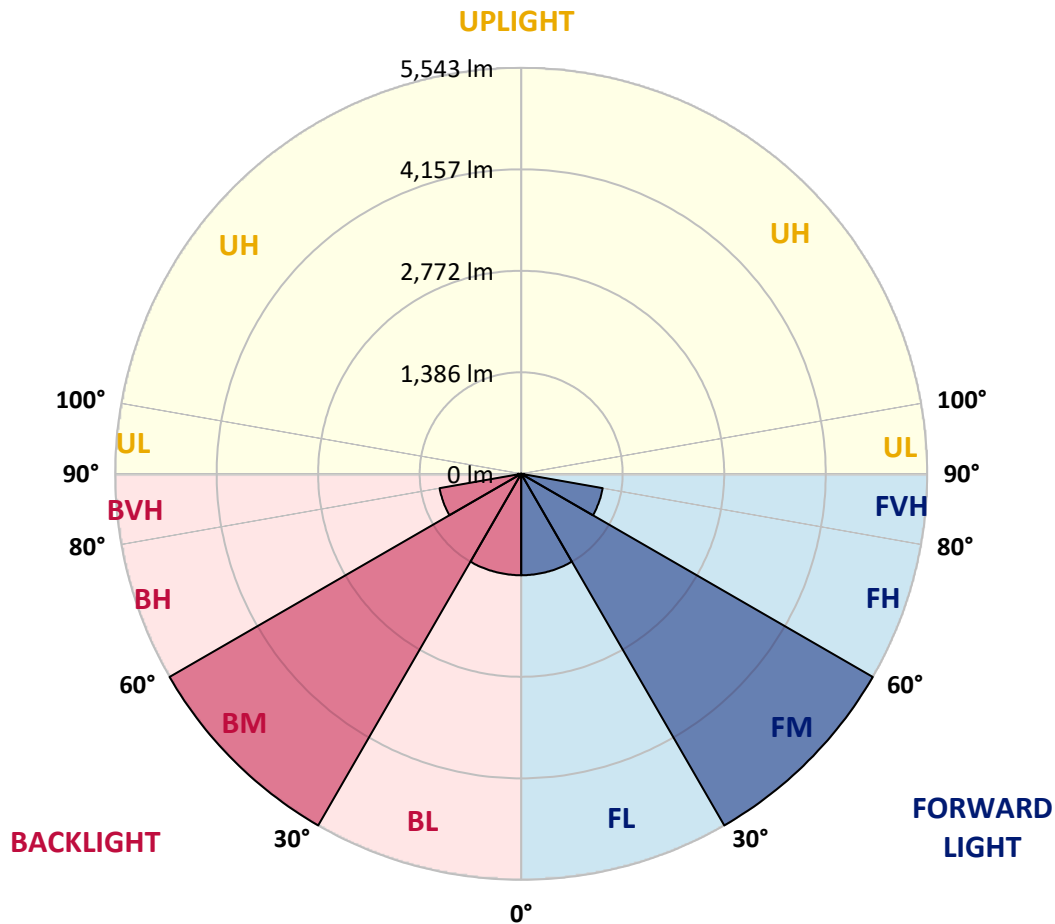
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1385.1	8.6			
FM	(30°-60°)	5543.2	34.2			
FH	(60°-80°)	1130.0	7.0			G1/1800
FVH	(80°-90°)	40.7	0.3			G1/100
BL	(0°-30°)	1385.1	8.6	B3/2500		
BM	(30°-60°)	5543.2	34.2	B4/8500		
BH	(60°-80°)	1130.0	7.0	B3/2500		G1/1800
BVH	(80°-90°)	40.7	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°	3199.0	3199.0	3199.0	3199.0	3199.0	3199.0	3199.0	3199.0	3199.0	3199.0	3199.0
2.5°	3183.0	3215.0	3201.0	3193.0	3199.0	3189.0	3173.0	3191.0	3187.0	3171.0	3165.1
5°	3175.0	3199.0	3183.0	3199.0	3183.0	3211.0	3203.0	3173.0	3209.0	3175.0	3187.0
7.5°	3169.1	3177.0	3181.0	3173.0	3167.1	3201.0	3183.0	3169.1	3149.1	3143.1	3153.1
10°	3155.1	3175.0	3145.1	3185.0	3193.0	3169.1	3169.1	3143.1	3127.1	3117.2	3151.1
12.5°	3191.0	3157.1	3153.1	3173.0	3179.0	3189.0	3161.1	3147.1	3117.2	3121.2	3115.2
15°	3149.1	3163.1	3165.1	3169.1	3175.0	3199.0	3173.0	3143.1	3131.1	3089.2	3093.2
17.5°	3165.1	3151.1	3165.1	3211.0	3203.0	3220.9	3193.0	3147.1	3119.2	3095.2	3127.1
20°	3193.0	3187.0	3193.0	3248.9	3258.9	3274.8	3250.9	3209.0	3155.1	3127.1	3143.1
22.5°	3222.9	3218.9	3222.9	3276.8	3334.7	3354.6	3330.7	3232.9	3205.0	3153.1	3135.1
25°	3276.8	3280.8	3322.7	3382.6	3420.5	3458.4	3414.5	3344.7	3254.9	3222.9	3185.0
27.5°	3396.6	3406.5	3430.5	3518.3	3584.1	3618.1	3556.2	3460.4	3404.5	3338.7	3328.7
30°	3544.2	3544.2	3586.1	3662.0	3751.8	3803.7	3727.8	3614.1	3546.2	3510.3	3488.4
32.5°	3739.8	3717.8	3733.8	3867.5	4007.2	4051.1	3949.3	3809.6	3701.9	3654.0	3638.0
35°	3907.4	3921.4	3957.3	4101.0	4256.7	4358.4	4198.8	4017.2	3907.4	3863.5	3855.5
37.5°	4125.0	4148.9	4166.9	4364.4	4552.0	4589.9	4436.3	4290.6	4156.9	4121.0	4101.0
40°	4432.3	4416.3	4422.3	4568.0	4737.6	4761.6	4609.9	4506.1	4396.4	4374.4	4374.4
42.5°	4685.7	4667.8	4687.7	4741.6	4871.3	4853.4	4769.5	4693.7	4647.8	4623.9	4647.8
45°	4839.4	4835.4	4871.3	4911.2	5003.0	4943.2	4877.3	4889.3	4845.4	4805.5	4803.5
47.5°	5007.0	4981.1	5025.0	5084.9	5015.0	4987.1	4983.1	5009.0	4995.0	4925.2	4903.2
50°	5088.8	5078.9	5148.7	5218.6	5180.6	5116.8	5130.7	5172.7	4993.1	4899.3	4845.4
52.5°	5308.4	5310.4	5444.1	5482.0	5466.0	5372.2	5402.2	5288.4	5076.9	4945.2	4951.1
55°	5653.6	5639.6	5789.3	5901.1	5919.0	5799.3	5655.6	5495.9	5230.5	5096.8	5056.9
57°	5464.0	5495.9	5661.6	5992.9	6160.5	6018.8	5705.5	5414.1	5060.9	4899.3	4827.4
57.5°	5210.6	5262.5	5549.8	5883.1	6058.7	6046.7	5643.6	5262.5	4947.2	4695.7	4701.7
60°	3817.6	3827.6	4087.0	4615.9	5164.7	5176.6	4685.7	4180.8	3829.6	3556.2	3594.1
62.5°	2013.6	2059.5	2163.3	2588.3	3063.3	3179.0	2881.7	2622.3	2318.9	2111.4	2131.3
65°	1065.7	1059.7	1109.6	1229.3	1462.8	1522.7	1482.7	1277.2	1171.4	1137.5	1139.5
67.5°	866.1	876.1	870.1	876.1	892.0	918.0	912.0	920.0	926.0	935.9	934.0
70°	734.4	734.4	738.4	740.4	740.4	752.4	766.3	792.3	794.3	804.2	808.2
72.5°	578.7	574.7	580.7	594.7	596.7	606.7	626.6	642.6	648.6	648.6	636.6
75°	393.1	397.1	405.1	417.1	429.1	447.0	463.0	473.0	477.0	471.0	465.0
77.5°	221.5	225.5	231.5	249.5	263.4	279.4	297.3	307.3	317.3	319.3	307.3
80°	131.7	131.7	141.7	155.7	171.6	187.6	203.6	215.5	219.5	219.5	213.5
82.5°	79.8	81.8	89.8	103.8	117.7	127.7	141.7	151.7	159.6	157.7	153.7
85°	41.9	41.9	49.9	61.9	71.8	81.8	81.8	75.8	71.8	61.9	57.9
87.5°	14.0	12.0	16.0	16.0	14.0	16.0	16.0	18.0	18.0	18.0	18.0
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)