

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: P457445

Luminaire Tested: **GALN-SA8D-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64450 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 493
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

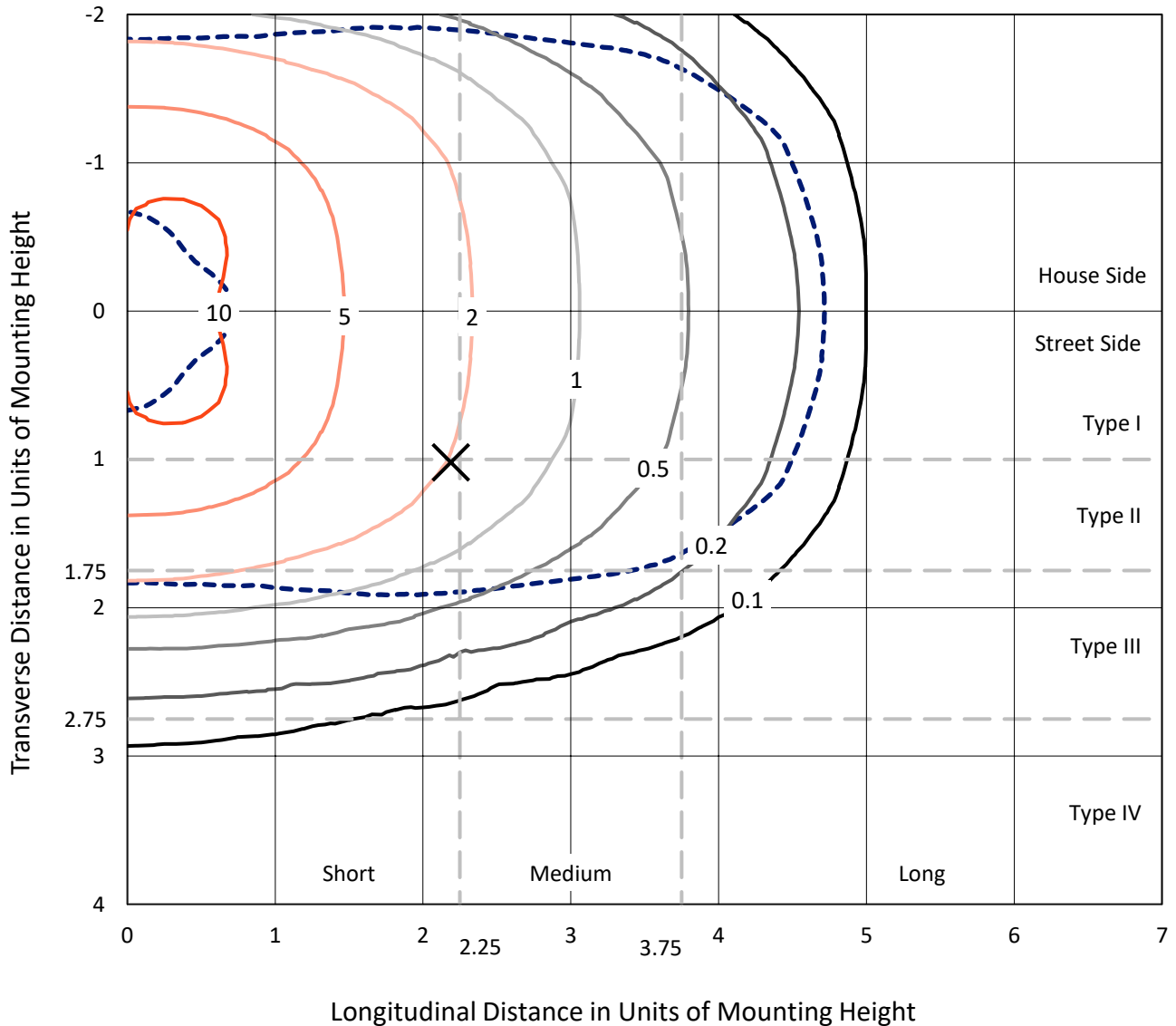




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Iso-Footcandle Lines of Horizontal Illumination

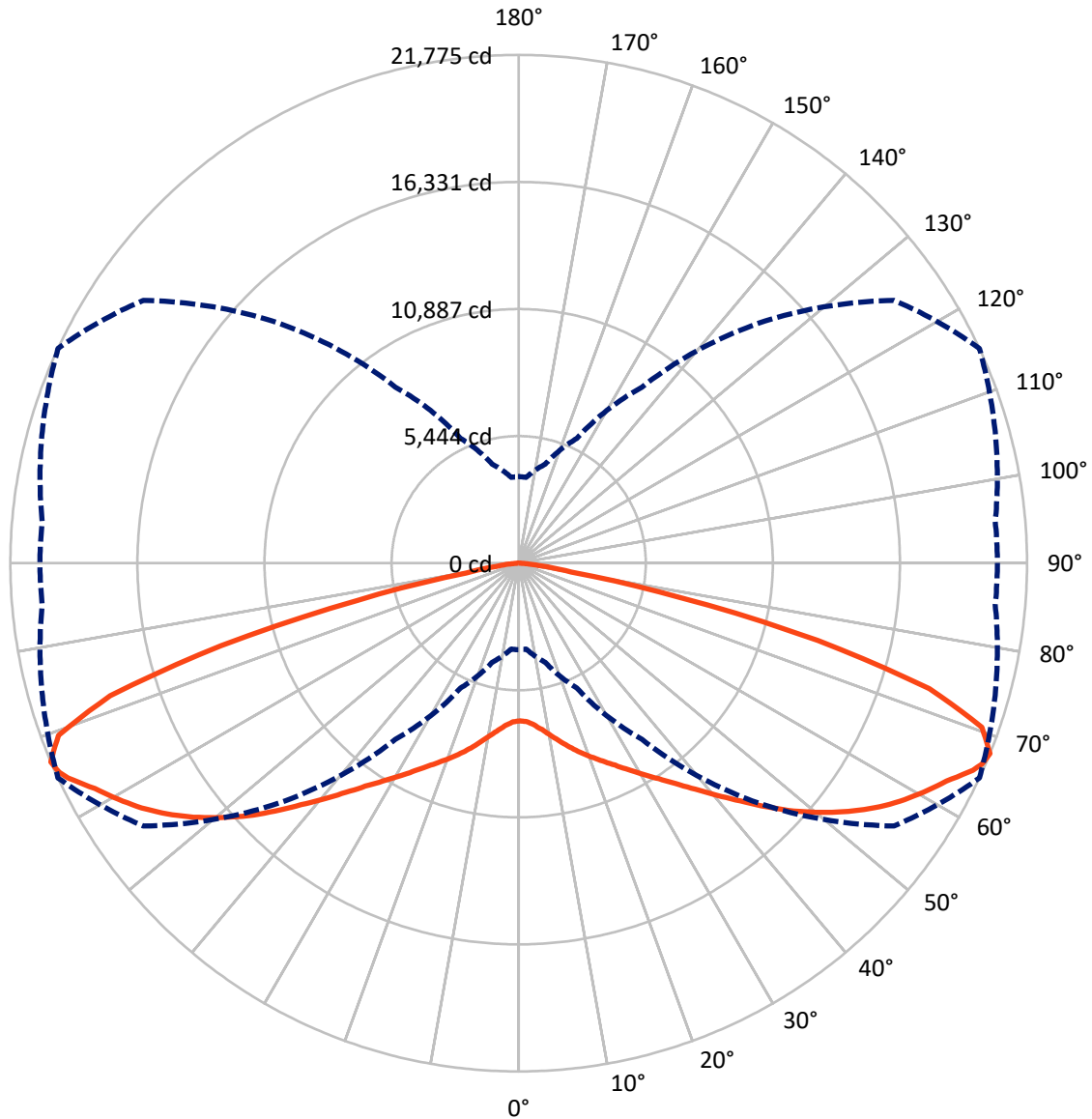
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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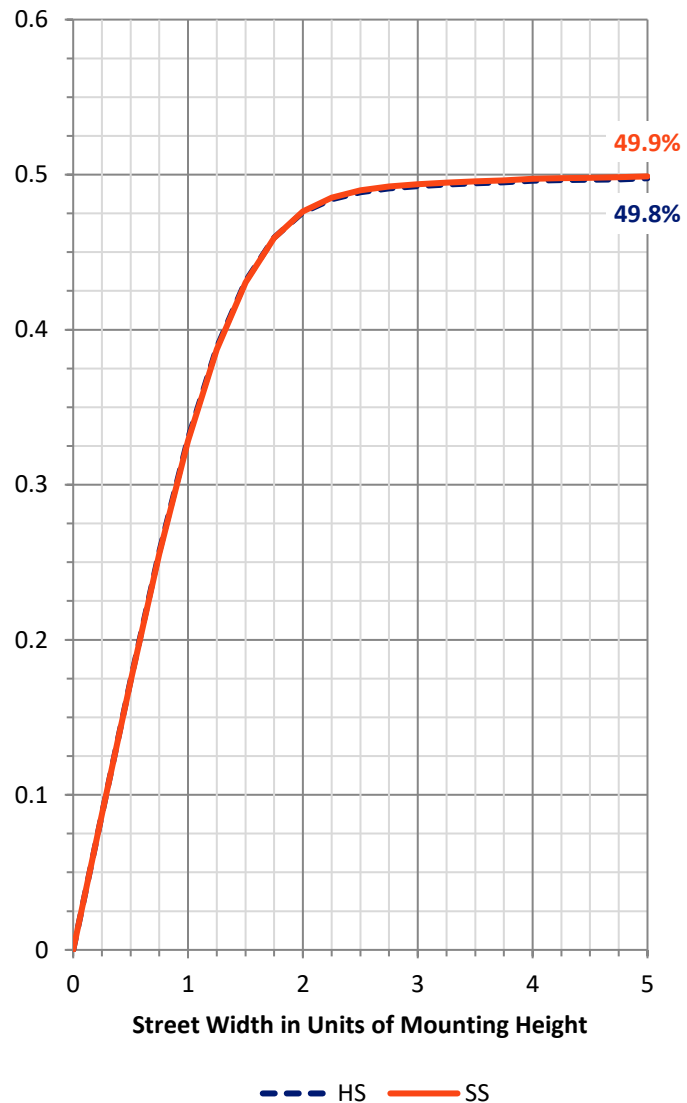
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32225.0	0.0	32225.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32225.0	0.0	32225.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	64450.0	0.0	64450.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.8	1.0
10°-20°	2228.3	3.5
20°-30°	4358.8	6.8
30°-40°	7413.7	11.5
40°-50°	11733.7	18.2
50°-60°	15558.6	24.1
60°-70°	14676.6	22.8
70°-80°	7255.4	11.3
80°-90°	559.2	0.9
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°	64450.0	100.0
0°-180°	64450.0	100.0



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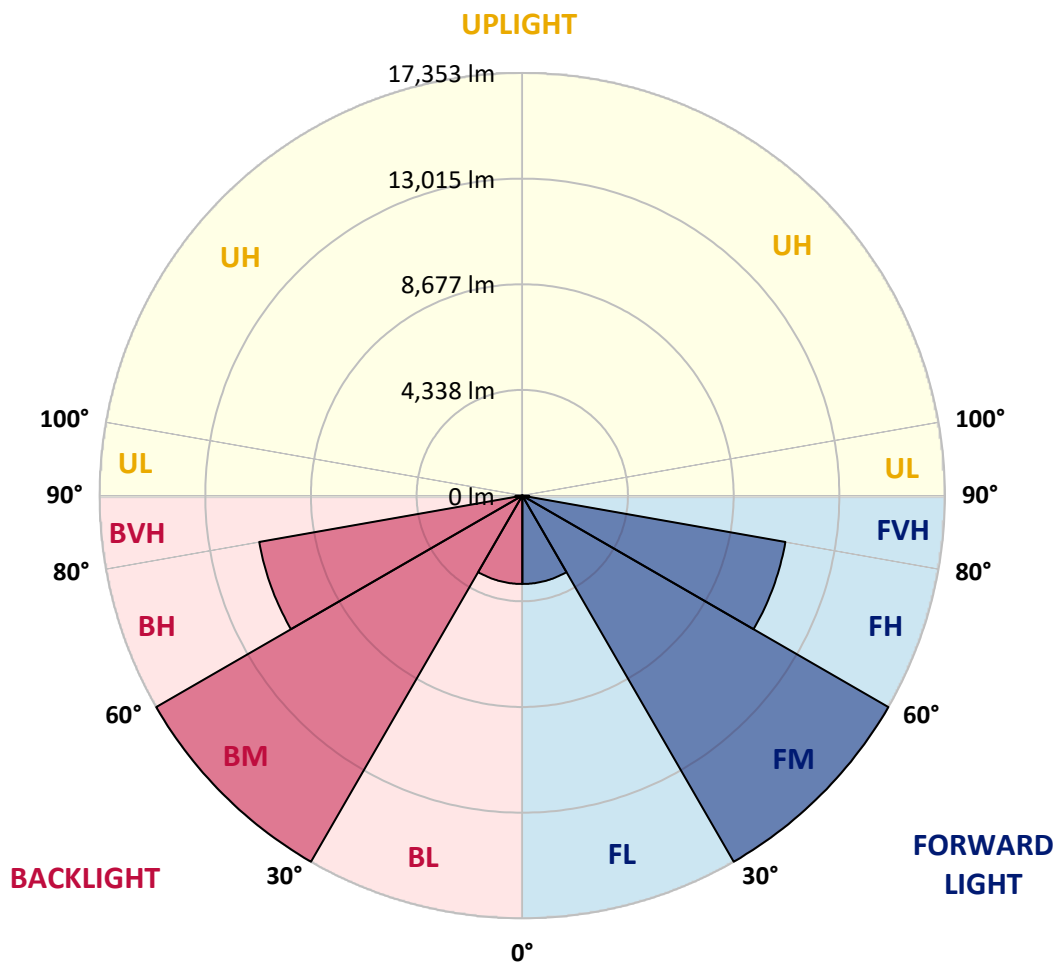
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3626.5	5.6			
FM (30°-60°)	17353.0	26.9			
FH (60°-80°)	10966.0	17.0			G4/12000
FVH (80°-90°)	279.6	0.4			G3/500
BL (0°-30°)	3626.5	5.6	B4/5000		
BM (30°-60°)	17353.0	26.9	B5		
BH (60°-80°)	10966.0	17.0	B5		G5
BVH (80°-90°)	279.6	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6750.6	6750.6	6750.6	6750.6	6750.6	6750.6	6750.6	6750.6	6750.6	6750.6	6750.6
2.5°	6716.0	6722.9	6729.9	6740.2	6754.0	6774.7	6788.6	6798.9	6826.5	6830.0	6826.5
5°	6691.9	6698.8	6716.0	6747.1	6792.0	6854.2	6902.5	6961.2	7006.1	7037.2	7030.3
7.5°	6688.4	6702.2	6729.9	6795.5	6881.8	6988.8	7099.3	7199.5	7285.8	7354.8	7344.5
10°	6743.7	6760.9	6805.8	6902.5	7037.2	7192.5	7347.9	7496.4	7620.7	7710.5	7741.6
12.5°	6836.9	6850.7	6933.6	7078.6	7272.0	7465.3	7641.4	7824.4	7997.1	8149.0	8149.0
15°	6999.2	7023.4	7126.9	7337.6	7575.8	7800.3	7979.8	8173.2	8359.7	8532.3	8584.1
17.5°	7223.6	7258.2	7413.5	7682.9	7986.7	8193.9	8363.1	8521.9	8684.2	8850.0	8874.1
20°	7530.9	7565.5	7772.6	8097.2	8456.3	8705.0	8818.9	8856.9	8936.3	9095.1	9115.9
22.5°	7948.8	7983.3	8214.6	8580.6	8981.2	9250.5	9298.9	9209.1	9188.4	9312.7	9326.5
25°	8421.8	8452.9	8718.8	9112.4	9526.8	9820.3	9806.5	9585.5	9461.2	9537.1	9557.8
27.5°	8953.6	8998.5	9267.8	9675.2	10124.1	10383.1	10341.7	10020.5	9754.7	9740.8	9747.8
30°	9633.8	9682.1	9937.7	10327.9	10769.8	11008.1	10921.8	10490.1	10079.2	9941.1	9941.1
32.5°	10352.0	10472.9	10731.9	11139.3	11484.6	11657.2	11526.0	11008.1	10462.5	10269.2	10258.8
35°	11287.8	11353.4	11608.9	12006.0	12265.0	12399.6	12147.6	11591.6	10963.2	10735.3	10704.2
37.5°	12202.8	12258.1	12555.0	12934.8	13249.1	13242.2	12900.3	12285.7	11584.7	11329.2	11308.5
40°	13138.6	13197.3	13535.7	13884.4	14198.6	14171.0	13756.7	13069.5	12323.7	12037.1	12092.3
42.5°	13950.0	14015.6	14398.9	14896.1	15179.3	15172.4	14692.4	13918.9	13142.0	12886.5	12934.8
45°	14689.0	14747.7	15193.1	15762.8	16177.2	16229.0	15704.1	14885.8	14088.1	13760.1	13773.9
47.5°	15210.4	15320.9	15787.0	16439.6	17002.5	17185.5	16671.0	15869.9	14951.4	14609.5	14630.3
50°	15607.5	15676.5	16184.1	16926.5	17637.8	18017.6	17603.3	16781.5	15814.6	15452.1	15500.4
52.5°	15655.8	15738.7	16291.1	17147.5	18059.1	18635.7	18432.0	17672.3	16695.1	16322.2	16425.8
55°	15262.2	15310.5	15970.0	17009.4	18224.8	19095.0	19146.8	18501.0	17534.2	17251.1	17320.1
57.5°	14139.9	14264.2	15099.9	16363.7	17996.9	19340.1	19682.0	19253.8	18383.6	18104.0	18214.5
60°	12299.5	12423.8	13262.9	14865.1	17137.1	19226.2	20123.9	19920.2	19153.7	18929.2	18987.9
62.5°	9637.3	9626.9	10666.2	12631.0	15427.9	18666.8	20452.0	20562.5	19913.3	19630.2	19719.9
65°	6246.4	6277.5	7282.3	9399.0	12848.5	17244.2	20524.5	21380.8	20659.2	20231.0	20296.6
66°	5024.1	5117.3	5970.2	7921.1	11532.9	16311.9	20307.0	21622.5	20887.1	20369.1	20400.2
67.5°	3708.5	3691.2	4392.2	5897.7	9209.1	14540.5	19626.7	21774.5	21146.0	20493.4	20507.2
70°	2116.7	2113.2	2361.8	3238.9	5414.3	10238.1	16543.2	21045.9	21670.9	20942.3	20904.3
72.5°	1546.9	1536.6	1571.1	1788.6	2641.5	5169.1	11412.1	18394.0	21401.5	20869.8	20762.7
75°	1298.3	1291.4	1284.5	1312.1	1481.3	2341.1	6056.5	13231.8	18570.1	19588.7	19478.2
77.5°	1060.1	1060.1	1063.5	1056.6	1063.5	1232.7	2510.3	7092.4	11308.5	12624.1	12931.4
80°	828.7	825.3	884.0	859.8	804.5	790.7	1111.9	2282.4	3753.4	3732.7	3080.1
82.5°	611.2	569.7	673.3	656.1	593.9	504.1	649.2	973.7	1253.4	814.9	604.3
85°	386.7	383.3	476.5	435.1	362.6	238.3	310.8	417.8	517.9	314.2	255.5
87.5°	69.1	65.6	151.9	110.5	110.5	69.1	86.3	113.9	169.2	117.4	86.3
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)