

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: P651548

Luminaire Tested: **GALN-SA8D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54827.3 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

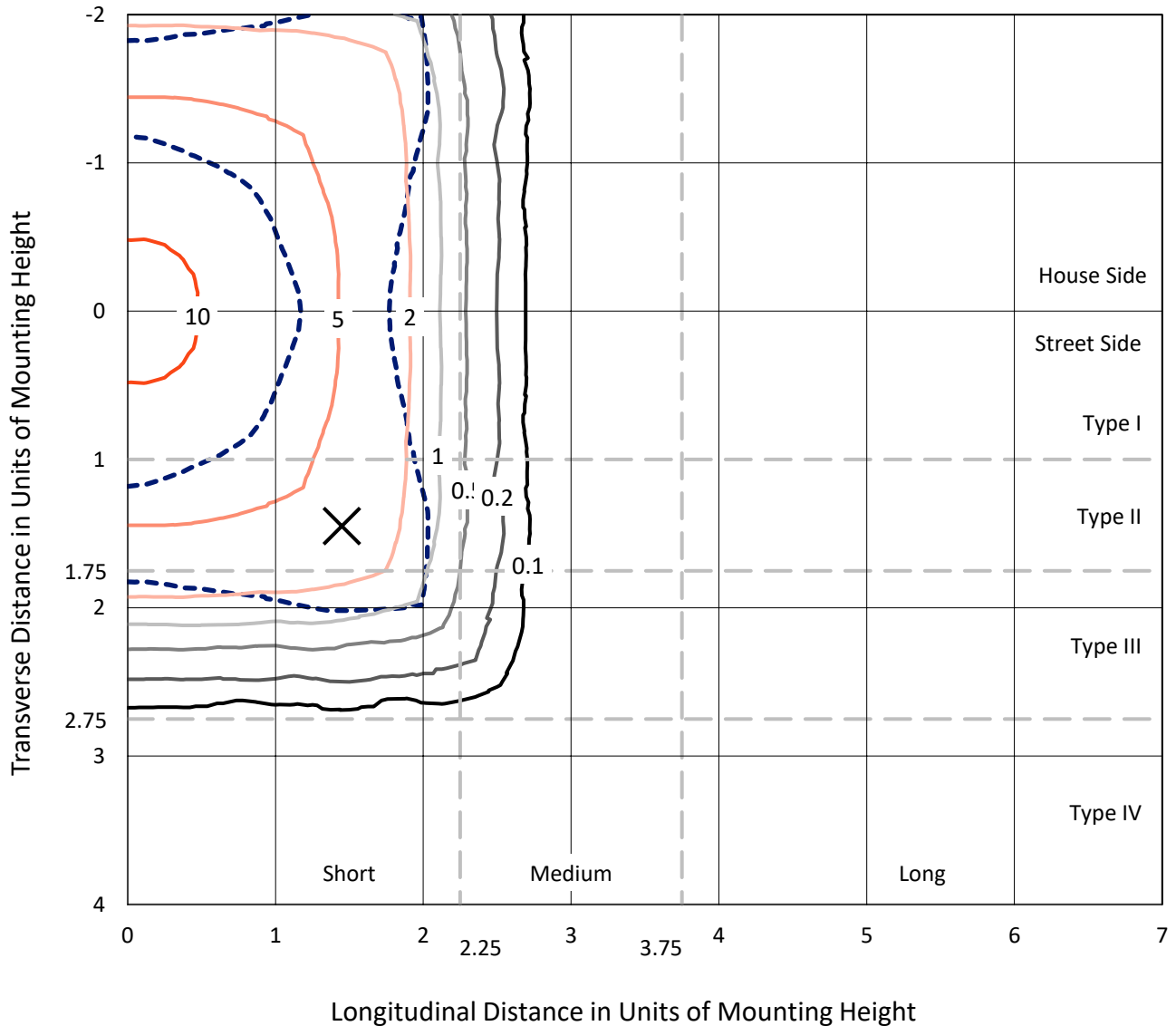
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

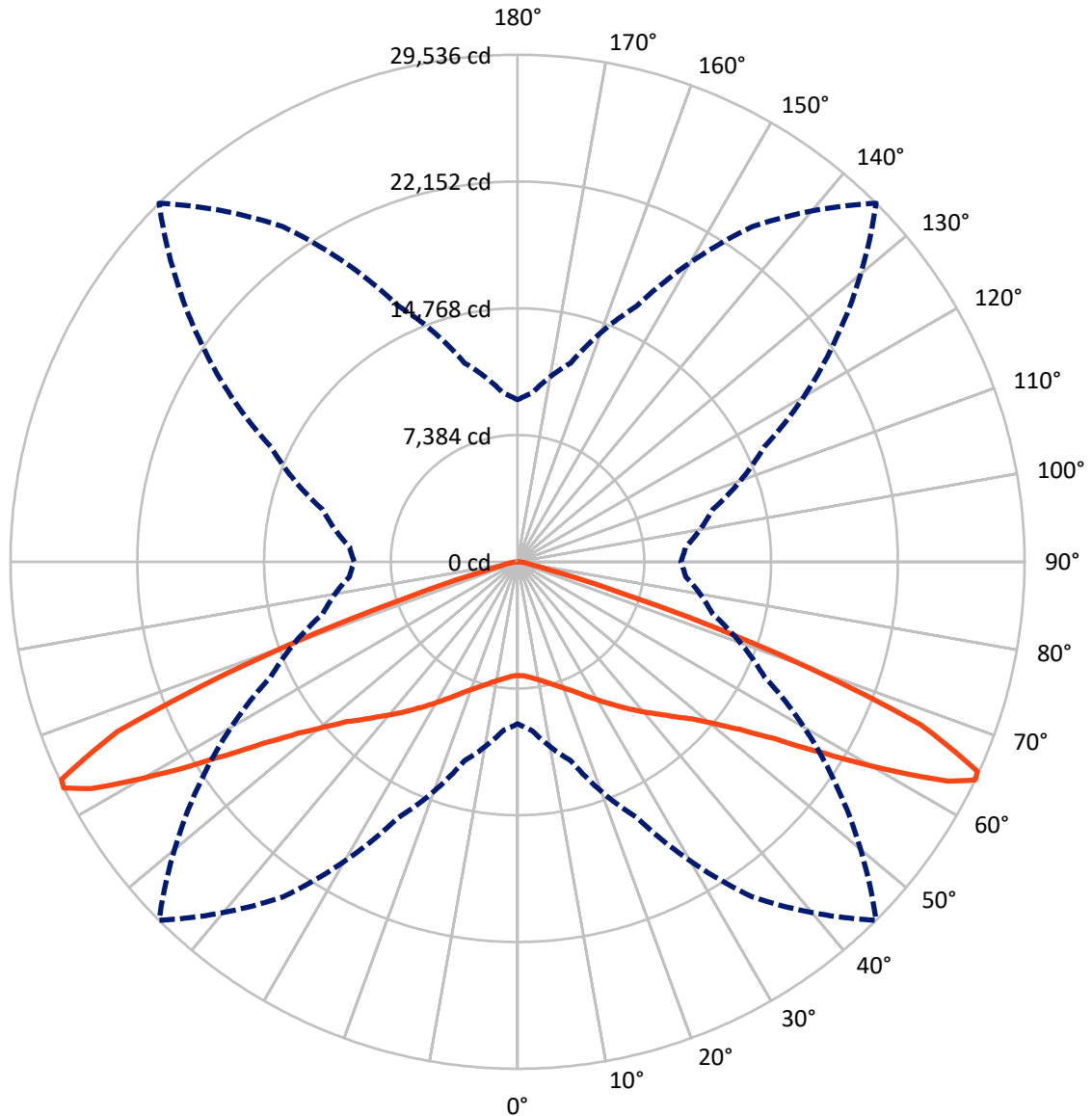
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27413.7	0.0	27413.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27413.7	0.0	27413.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	54827.3	0.0	54827.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.0	1.2
10°-20°	2100.0	3.8
20°-30°	3968.4	7.2
30°-40°	6572.2	12.0
40°-50°	10260.2	18.7
50°-60°	15862.0	28.9
60°-70°	13677.7	24.9
70°-80°	1550.0	2.8
80°-90°	185.7	0.3
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°	54827.3	100.0
0°-180°	54827.3	100.0

Coefficient of Utilization

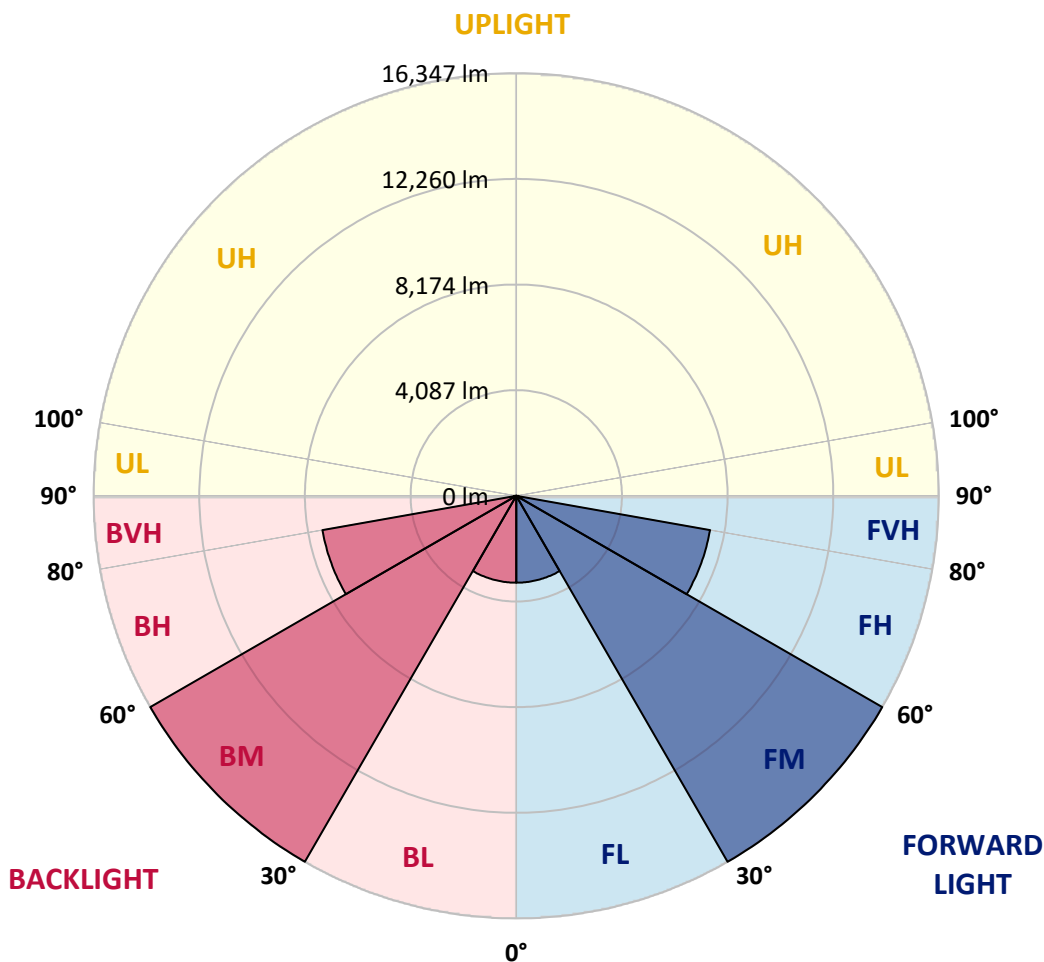


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3359.7	6.1			
FM (30°-60°)	16347.2	29.8			
FH (60°-80°)	7613.8	13.9			G4/12000
FVH (80°-90°)	92.9	0.2			G1/100
BL (0°-30°)	3359.7	6.1	B4/5000		
BM (30°-60°)	16347.2	29.8	B5		
BH (60°-80°)	7613.8	13.9	B5		G4/12000
BVH (80°-90°)	92.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6626.8	6626.8	6626.8	6626.8	6626.8	6626.8	6626.8	6626.8	6626.8	6626.8	6626.8
2.5°	6652.9	6667.4	6655.8	6652.9	6650.0	6650.0	6650.0	6652.9	6664.6	6673.3	6667.4
5°	6737.2	6748.8	6743.0	6740.0	6737.2	6740.0	6734.2	6731.4	6740.0	6740.0	6737.2
7.5°	6841.7	6856.3	6850.4	6856.3	6859.1	6862.1	6847.5	6835.9	6833.0	6841.7	6835.9
10°	6984.0	6995.6	6998.5	7001.4	7007.2	7004.4	6986.9	6966.6	6963.6	6960.8	6957.8
12.5°	7143.7	7152.5	7155.3	7166.9	7175.7	7178.5	7158.3	7140.8	7111.7	7117.6	7105.9
15°	7323.8	7341.2	7338.2	7355.7	7378.9	7384.7	7364.4	7335.4	7309.2	7294.7	7286.0
17.5°	7544.4	7556.0	7550.2	7567.7	7596.8	7611.2	7593.8	7556.0	7529.9	7498.0	7480.5
20°	7805.8	7826.1	7832.0	7832.0	7858.1	7872.6	7846.4	7834.8	7794.2	7770.9	7756.5
22.5°	8102.0	8110.7	8128.2	8145.6	8171.7	8165.9	8157.2	8139.8	8102.0	8081.7	8058.5
25°	8436.0	8444.6	8488.2	8526.0	8534.7	8528.9	8517.3	8508.6	8473.7	8427.2	8409.8
27.5°	8825.1	8842.5	8900.6	8935.5	8935.5	8938.3	8915.1	8944.1	8868.7	8813.5	8807.6
30°	9313.0	9324.6	9374.0	9408.8	9391.4	9376.8	9371.0	9400.1	9318.8	9220.1	9196.8
32.5°	9795.0	9835.7	9879.2	9954.7	9893.8	9867.6	9861.8	9882.1	9789.2	9678.8	9646.9
35°	10311.9	10340.9	10422.3	10486.2	10431.0	10370.0	10396.1	10460.0	10349.7	10201.6	10195.8
37.5°	10884.0	10910.1	11014.7	11081.4	11040.8	10936.3	10979.8	11055.3	10944.9	10762.0	10724.3
40°	11479.3	11534.5	11665.2	11734.8	11668.0	11528.7	11610.0	11691.2	11592.5	11380.6	11296.3
42.5°	12147.2	12234.3	12423.1	12457.9	12330.2	12141.4	12283.6	12414.3	12344.7	12100.7	12068.8
45°	12928.4	12980.7	13213.0	13288.5	13111.3	12876.1	13053.2	13291.3	13239.1	12957.4	12896.4
47.5°	13802.5	13851.9	14092.8	14206.1	13982.5	13666.0	13985.4	14296.2	14264.2	13962.2	13933.1
50°	14836.2	14847.9	15181.8	15309.6	15086.0	14813.0	15097.6	15483.8	15356.1	14969.8	14964.0
52.5°	15968.8	15983.3	16404.4	16651.2	16526.3	16218.5	16555.4	16790.6	16465.4	15960.1	15922.3
55°	16950.4	17022.9	17597.9	18254.2	18425.6	18201.9	18303.5	18193.2	17391.7	16683.2	16572.8
57.5°	17351.1	17493.4	18367.4	19592.9	20708.0	21039.0	20255.0	19203.8	17760.5	16758.7	16651.2
60°	16372.4	16526.3	17882.5	20208.6	23054.4	24491.9	22287.8	19375.1	16921.3	15512.8	15344.5
62.5°	13111.3	13154.8	15149.9	18759.5	24422.2	28145.1	23144.4	17914.5	14479.1	12565.4	12498.6
64°	9434.9	9882.1	11996.2	16447.9	23823.9	29536.0	22650.7	15867.1	11761.0	9824.1	9510.4
65°	7056.6	7178.5	9670.2	14046.4	22769.8	29431.5	21692.5	13909.9	9739.9	7518.3	7169.9
67.5°	2665.8	2680.4	3569.0	7001.4	16209.9	25322.4	16555.4	7567.7	4103.2	2967.8	2860.4
70°	1106.4	1126.8	1309.7	2355.1	6966.6	16259.2	7982.9	2729.7	1501.4	1216.8	1199.4
72.5°	810.2	821.8	877.0	1045.4	2143.1	6676.2	2625.2	1158.6	879.9	787.0	778.3
75°	636.0	641.8	682.4	769.5	998.9	1849.8	1091.9	795.7	670.8	604.0	598.2
77.5°	484.9	499.5	528.5	586.6	670.8	877.0	723.1	595.3	516.9	461.7	453.0
80°	334.0	351.4	406.5	429.8	450.1	569.2	493.7	450.1	403.7	336.8	316.6
82.5°	206.2	217.8	273.0	293.3	284.6	319.4	316.6	322.4	287.5	209.1	194.5
85°	107.5	113.3	148.1	153.9	142.3	130.7	162.6	188.7	177.1	119.1	116.1
87.5°	23.2	26.2	32.0	29.0	32.0	32.0	40.6	61.0	63.9	40.6	37.8
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)