

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: P457876

Luminaire Tested: **GALN-SA9B-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457876
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-SA9B-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49028 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

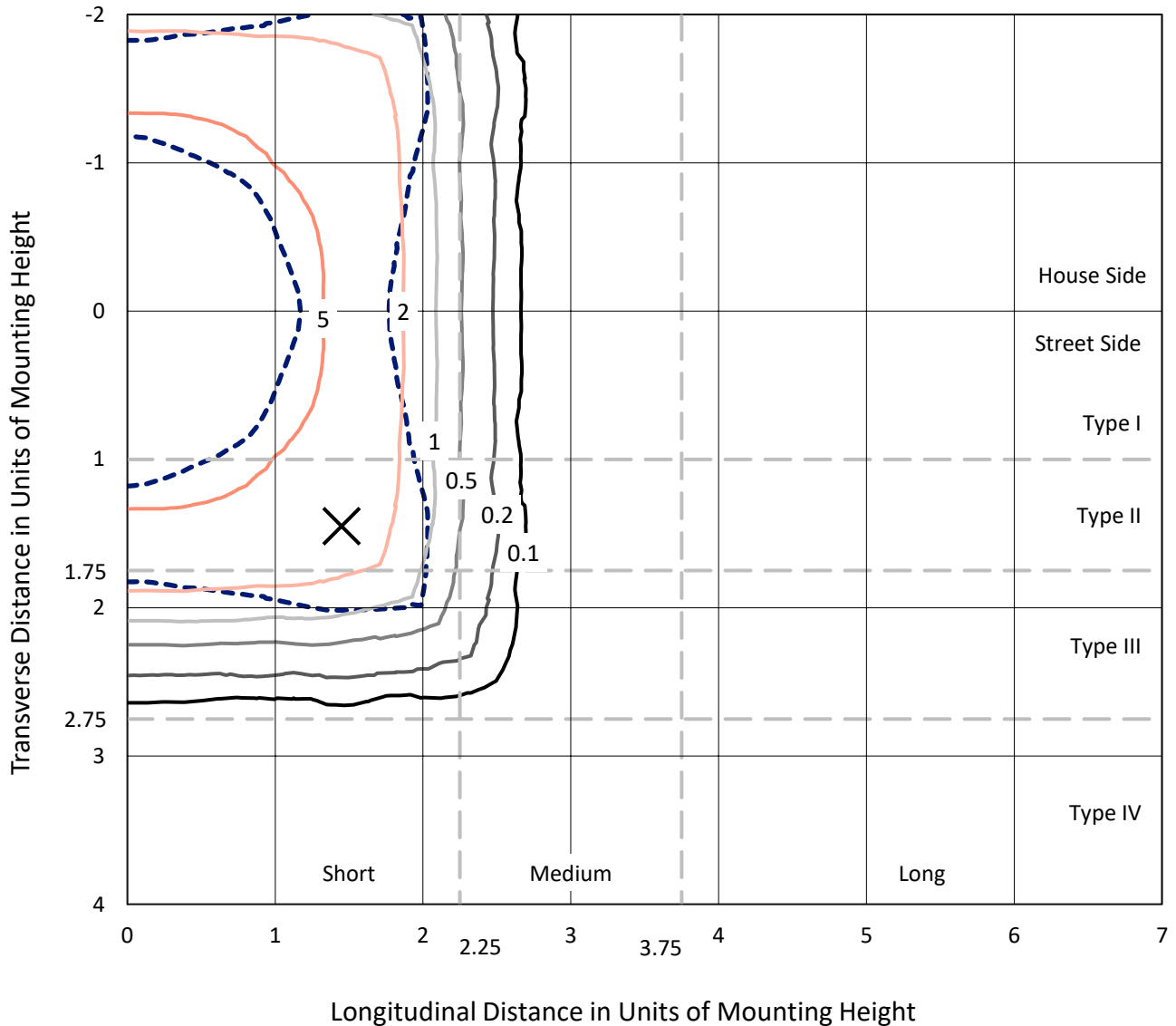
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

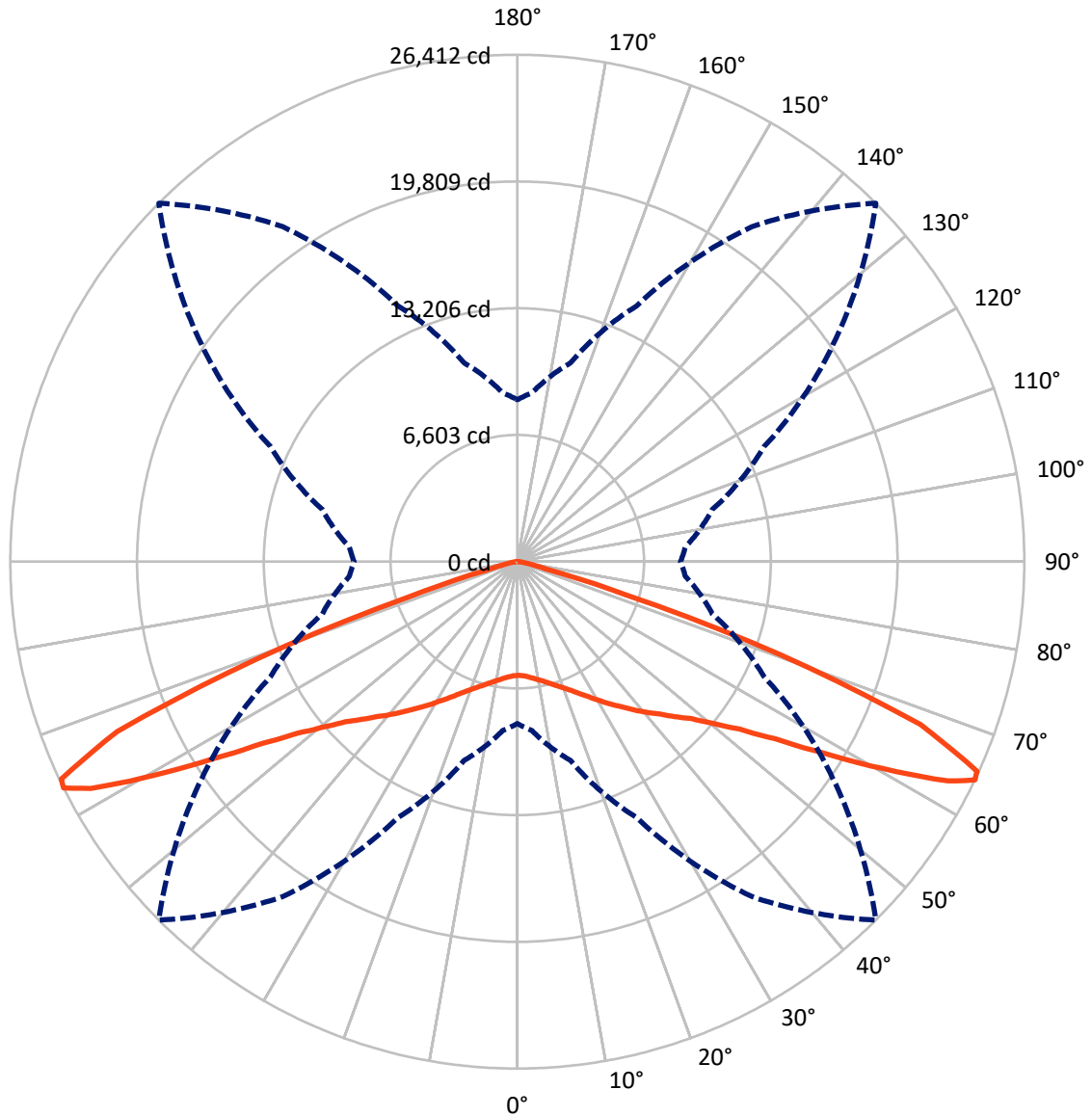
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	24514.0	0.0	24514.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24514.0	0.0	24514.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49028.0	0.0	49028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.2	1.2
10°-20°	1877.9	3.8
20°-30°	3548.7	7.2
30°-40°	5877.0	12.0
40°-50°	9174.9	18.7
50°-60°	14184.3	28.9
60°-70°	12230.9	24.9
70°-80°	1386.1	2.8
80°-90°	166.1	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°	49028.0	100.0
0°-180°	49028.0	100.0

Coefficient of Utilization



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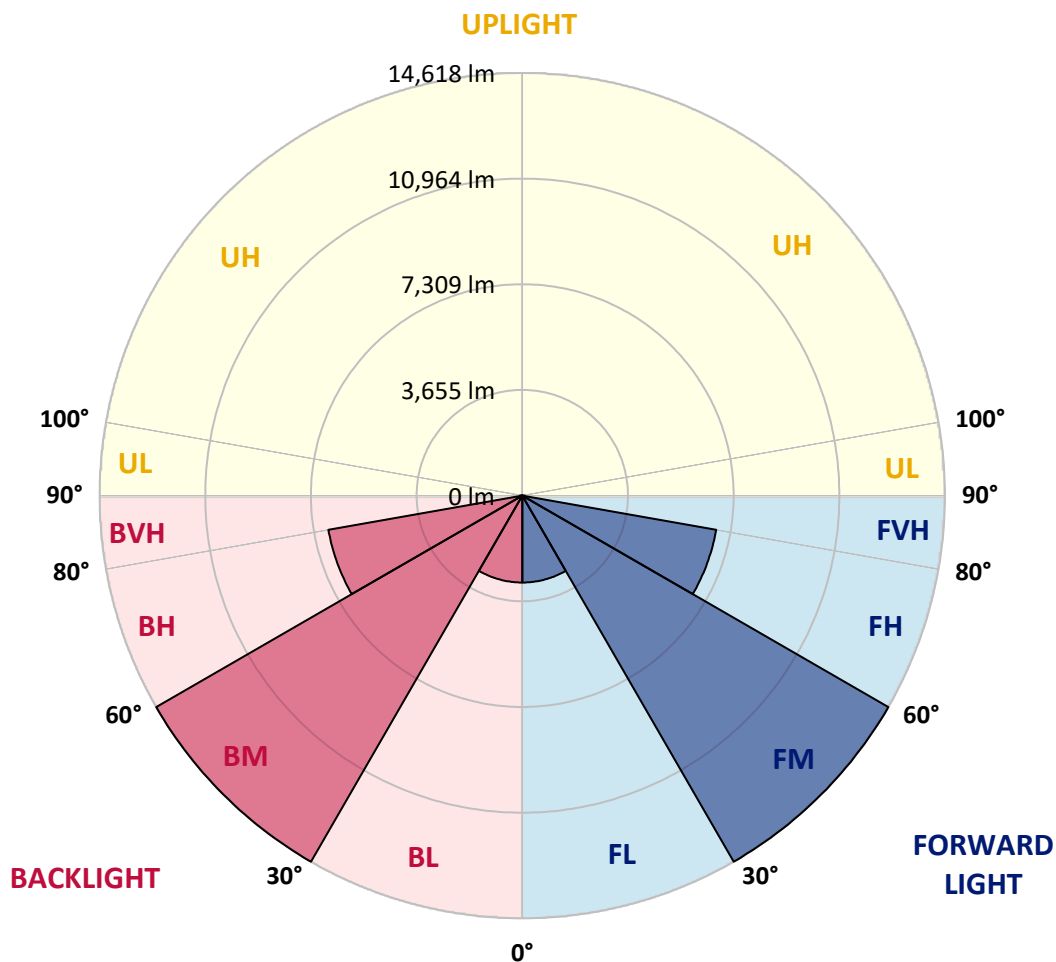
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.4	6.1			
FM (30°-60°)	14618.1	29.8			
FH (60°-80°)	6808.5	13.9			G3/7500
FVH (80°-90°)	83.0	0.2			G1/100
BL (0°-30°)	3004.4	6.1	B4/5000		
BM (30°-60°)	14618.1	29.8	B5		
BH (60°-80°)	6808.5	13.9	B5		G3/7500
BVH (80°-90°)	83.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5925.9	5925.9	5925.9	5925.9	5925.9	5925.9	5925.9	5925.9	5925.9	5925.9	5925.9
2.5°	5949.2	5962.2	5951.8	5949.2	5946.6	5946.6	5946.6	5949.2	5959.6	5967.4	5962.2
5°	6024.5	6034.9	6029.7	6027.1	6024.5	6027.1	6021.9	6019.3	6027.1	6027.1	6024.5
7.5°	6118.0	6131.0	6125.8	6131.0	6133.6	6136.2	6123.2	6112.8	6110.2	6118.0	6112.8
10°	6245.3	6255.6	6258.2	6260.8	6266.0	6263.4	6247.9	6229.7	6227.1	6224.5	6221.9
12.5°	6388.1	6395.9	6398.5	6408.9	6416.7	6419.2	6401.1	6385.5	6359.5	6364.7	6354.3
15°	6549.1	6564.7	6562.1	6577.7	6598.4	6603.6	6585.4	6559.5	6536.1	6523.1	6515.3
17.5°	6746.4	6756.8	6751.6	6767.2	6793.2	6806.2	6790.6	6756.8	6733.5	6704.9	6689.3
20°	6980.2	6998.3	7003.5	7003.5	7026.9	7039.9	7016.5	7006.1	6969.8	6949.0	6936.0
22.5°	7245.0	7252.8	7268.4	7284.0	7307.3	7302.2	7294.4	7278.8	7245.0	7226.8	7206.1
25°	7543.7	7551.4	7590.4	7624.2	7631.9	7626.8	7616.4	7608.6	7577.4	7535.9	7520.3
27.5°	7891.6	7907.2	7959.1	7990.3	7990.3	7992.9	7972.1	7998.1	7930.6	7881.2	7876.0
30°	8327.9	8338.3	8382.4	8413.6	8398.0	8385.0	8379.8	8405.8	8333.1	8244.8	8224.0
32.5°	8758.9	8795.3	8834.3	8901.8	8847.2	8823.9	8818.7	8836.9	8753.8	8655.1	8626.5
35°	9221.2	9247.1	9319.9	9377.0	9327.6	9273.1	9296.5	9353.6	9254.9	9122.5	9117.3
37.5°	9732.7	9756.1	9849.6	9909.3	9873.0	9779.5	9818.4	9886.0	9787.3	9623.7	9589.9
40°	10265.1	10314.4	10431.3	10493.6	10433.9	10309.2	10381.9	10454.6	10366.4	10176.8	10101.5
42.5°	10862.3	10940.2	11109.0	11140.2	11025.9	10857.1	10984.4	11101.2	11038.9	10820.8	10792.2
45°	11560.9	11607.6	11815.4	11882.9	11724.5	11514.1	11672.5	11885.5	11838.7	11586.8	11532.3
47.5°	12342.5	12386.7	12602.2	12703.5	12503.5	12220.5	12506.1	12784.0	12755.4	12485.3	12459.4
50°	13267.0	13277.4	13576.0	13690.2	13490.3	13246.2	13500.7	13846.0	13731.8	13386.4	13381.2
52.5°	14279.7	14292.7	14669.2	14890.0	14778.3	14503.0	14804.3	15014.6	14723.8	14271.9	14238.2
55°	15157.4	15222.3	15736.5	16323.4	16476.6	16276.6	16367.5	16268.8	15552.1	14918.5	14819.8
57.5°	15515.8	15643.0	16424.7	17520.5	18517.7	18813.7	18112.6	17172.5	15881.9	14986.0	14890.0
60°	14640.7	14778.3	15991.0	18071.0	20615.9	21901.3	19930.3	17325.7	15131.5	13872.0	13721.4
62.5°	11724.5	11763.4	13547.4	16775.2	21838.9	25168.0	20696.4	16019.6	12947.6	11236.3	11176.6
64°	8436.9	8836.9	10727.3	14708.2	21304.0	26411.9	20254.9	14188.8	10517.0	8784.9	8504.5
65°	6310.2	6419.2	8647.3	12560.6	20361.4	26318.4	19398.0	12438.6	8709.6	6723.1	6411.5
67.5°	2383.8	2396.8	3191.4	6260.8	14495.2	22643.9	14804.3	6767.2	3669.3	2653.9	2557.8
70°	989.4	1007.6	1171.1	2106.0	6229.7	14539.4	7138.6	2441.0	1342.5	1088.1	1072.5
72.5°	724.5	734.9	784.2	934.8	1916.4	5970.0	2347.5	1036.1	786.8	703.7	695.9
75°	568.7	573.9	610.2	688.1	893.3	1654.2	976.4	711.5	599.9	540.1	534.9
77.5°	433.7	446.6	472.6	524.6	599.9	784.2	646.6	532.3	462.2	412.9	405.1
80°	298.6	314.2	363.5	384.3	402.5	509.0	441.5	402.5	361.0	301.2	283.0
82.5°	184.4	194.8	244.1	262.3	254.5	285.6	283.0	288.2	257.1	187.0	174.0
85°	96.1	101.3	132.4	137.6	127.2	116.9	145.4	168.8	158.4	106.5	103.9
87.5°	20.8	23.4	28.6	26.0	28.6	28.6	36.4	54.5	57.1	36.4	33.8
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)