

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: P529109

Luminaire Tested: **GALN-SA4B-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10693 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

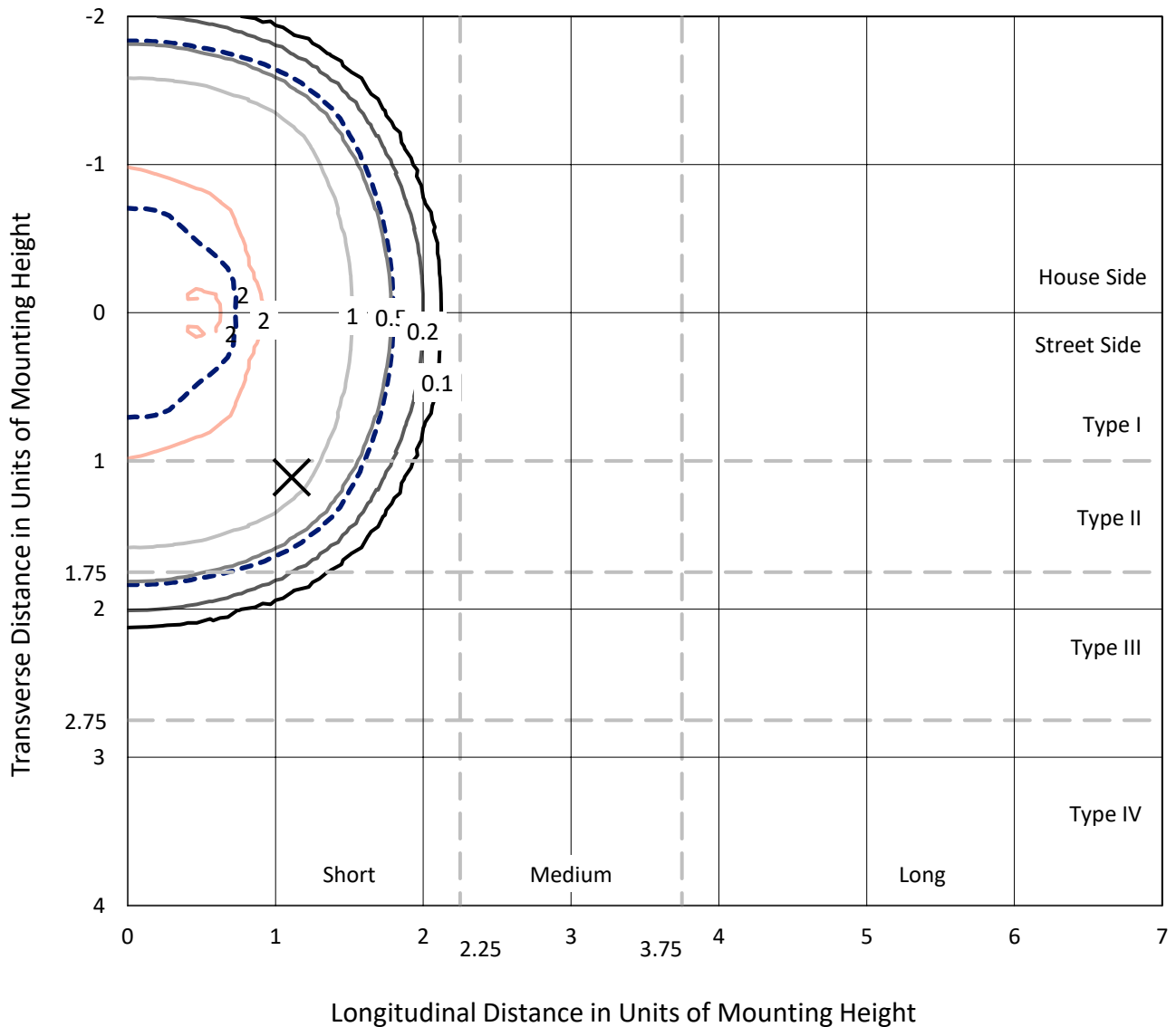
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529109
 CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

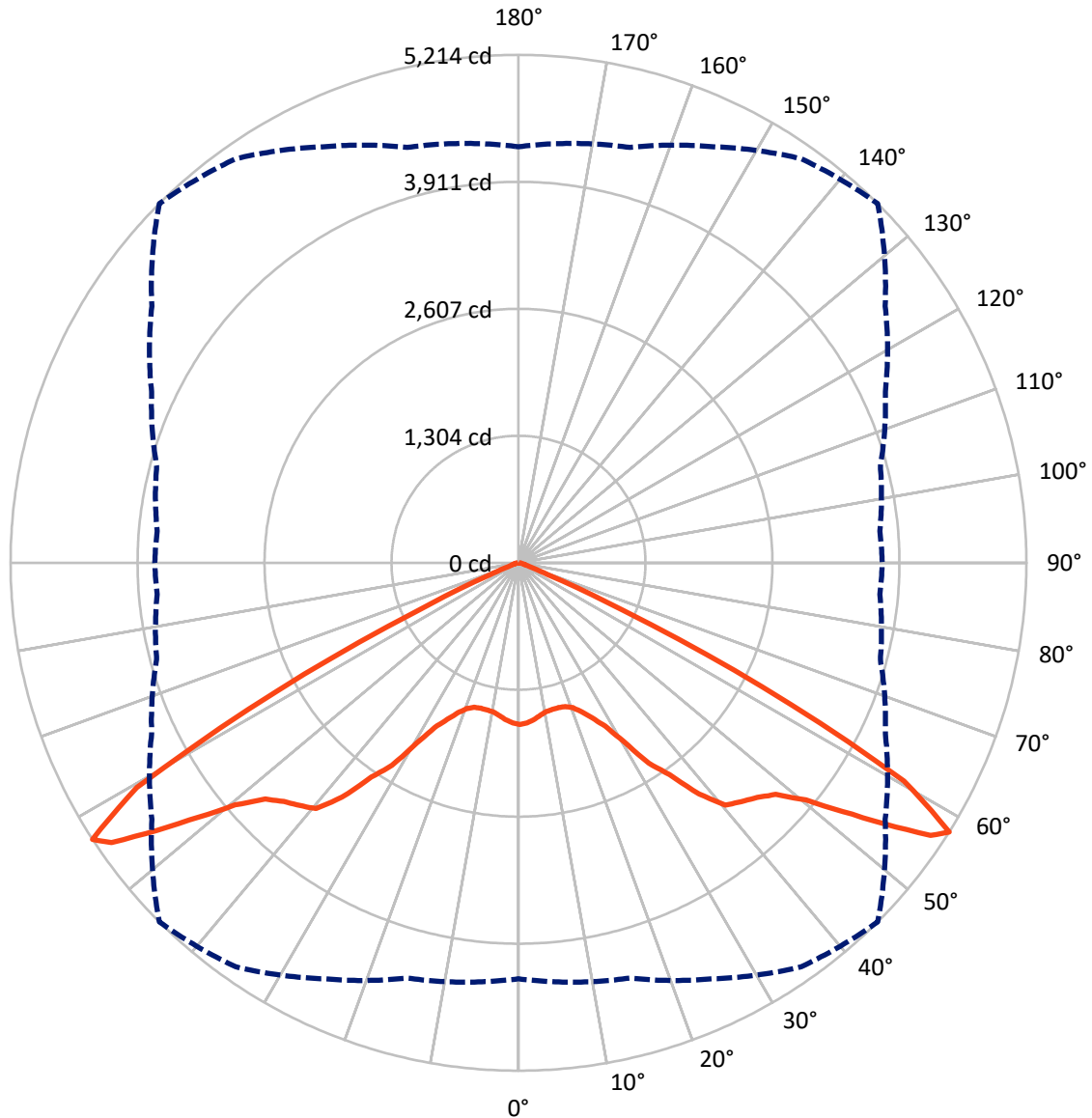
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P529109
CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P529109
 CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSBK

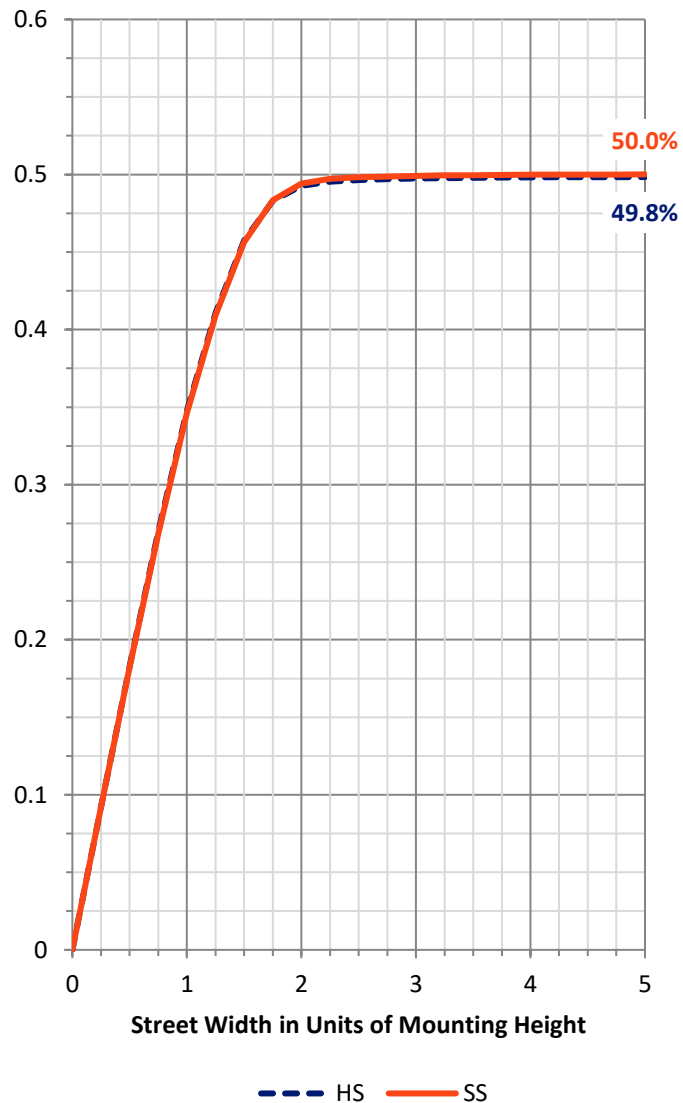
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5346.5	0.0	5346.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5346.5	0.0	5346.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10693.0	0.0	10693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	1.4
10°-20°	440.6	4.1
20°-30°	813.2	7.6
30°-40°	1599.3	15.0
40°-50°	2604.8	24.4
50°-60°	3714.7	34.7
60°-70°	1286.1	12.0
70°-80°	69.0	0.6
80°-90°	13.0	0.1
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°	10693.0	100.0
0°-180°	10693.0	100.0

Coefficient of Utilization



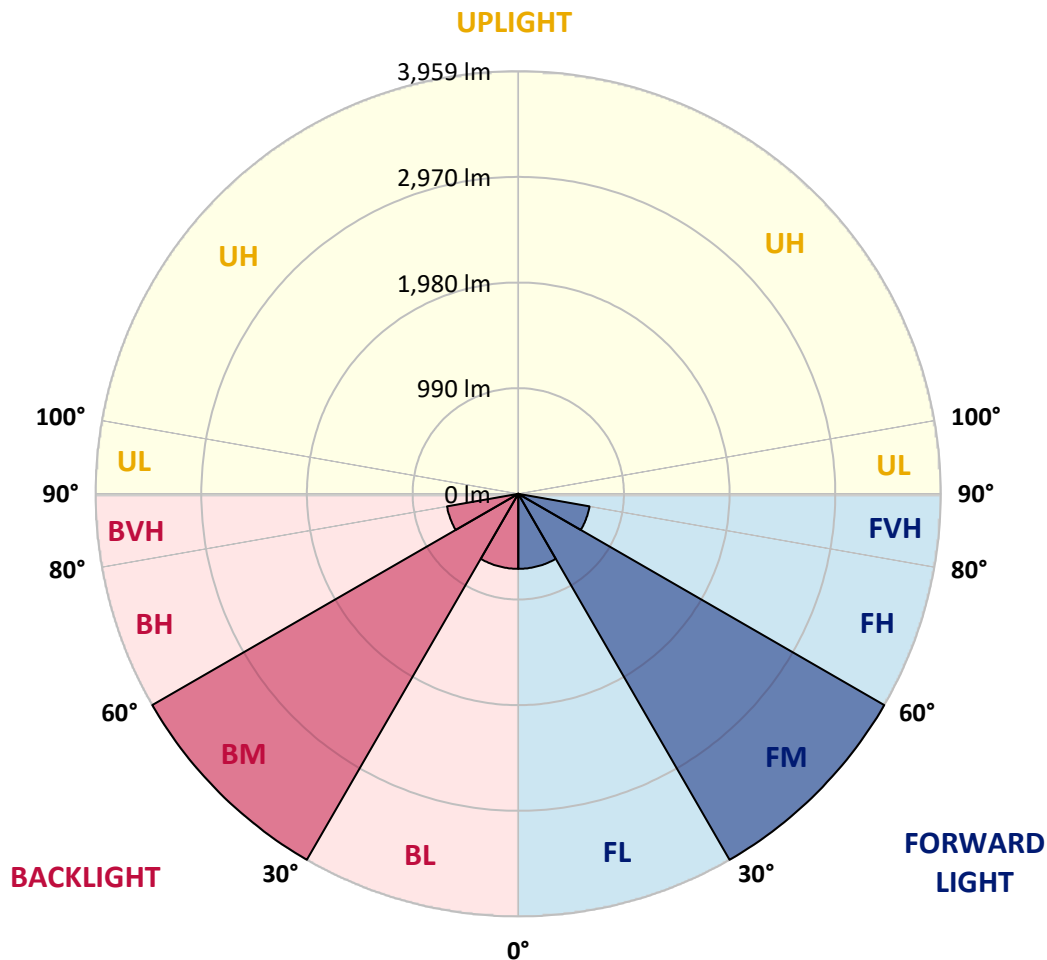
REPORT NUMBER: P529109
 CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.1	6.6			
FM	(30°-60°)	3959.4	37.0			
FH	(60°-80°)	677.6	6.3			G1/1800
FVH	(80°-90°)	6.5	0.1			G0/10
BL	(0°-30°)	703.1	6.6	B2/1000		
BM	(30°-60°)	3959.4	37.0	B3/5000		
BH	(60°-80°)	677.6	6.3	B2/1000		G1/1800
BVH	(80°-90°)	6.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P529109

CATALOG NUMBER: GALN-SA4B-730-U-5WQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1654.1	1663.1	1651.9	1647.4	1645.2	1645.2	1638.5	1638.5	1636.3	1638.5	1629.6
5°	1627.4	1636.3	1636.3	1634.1	1620.7	1618.5	1611.8	1607.3	1609.6	1600.6	1607.3
7.5°	1600.6	1607.3	1598.4	1596.2	1591.7	1582.8	1580.6	1560.5	1562.7	1562.7	1567.2
10°	1596.2	1593.9	1580.6	1569.4	1556.0	1553.8	1547.1	1542.7	1542.7	1540.4	1547.1
12.5°	1596.2	1585.0	1582.8	1558.3	1536.0	1544.9	1527.1	1515.9	1531.5	1536.0	1544.9
15°	1593.9	1605.1	1567.2	1556.0	1540.4	1542.7	1527.1	1515.9	1524.8	1529.3	1536.0
17.5°	1607.3	1600.6	1589.5	1567.2	1560.5	1551.6	1531.5	1522.6	1522.6	1533.8	1536.0
20°	1643.0	1625.2	1602.9	1591.7	1598.4	1587.3	1562.7	1529.3	1538.2	1547.1	1553.8
22.5°	1676.4	1663.1	1647.4	1640.8	1678.7	1660.8	1618.5	1580.6	1567.2	1582.8	1593.9
25°	1741.1	1741.1	1712.1	1721.0	1763.4	1765.6	1716.6	1649.7	1640.8	1647.4	1651.9
27.5°	1872.6	1879.3	1854.8	1863.7	1881.5	1897.1	1854.8	1799.0	1779.0	1776.7	1783.4
30°	2015.3	2028.7	2026.4	2064.3	2115.6	2124.5	2062.1	1970.7	1910.5	1899.4	1908.3
32.5°	2202.5	2209.2	2204.8	2249.4	2387.6	2452.2	2289.5	2160.2	2079.9	2100.0	2079.9
35°	2554.8	2548.1	2499.0	2508.0	2621.7	2668.5	2512.4	2429.9	2392.0	2432.2	2423.2
37.5°	2858.0	2833.4	2793.3	2851.3	2969.4	3011.8	2849.0	2704.1	2635.0	2701.9	2730.9
40°	3114.3	3051.9	2996.2	3054.1	3212.4	3270.4	3031.8	2913.7	2886.9	2936.0	2998.4
42.5°	3330.6	3290.4	3216.9	3221.3	3326.1	3352.9	3161.1	3092.0	3065.3	3143.3	3174.5
45°	3484.4	3446.5	3377.4	3372.9	3453.2	3435.3	3263.7	3216.9	3232.5	3283.8	3299.4
47.5°	3562.4	3582.5	3542.4	3553.5	3595.9	3553.5	3417.5	3417.5	3381.8	3413.1	3397.4
50°	3787.6	3725.2	3776.4	3776.4	3821.0	3825.5	3689.5	3640.4	3544.6	3491.1	3491.1
52.5°	4050.6	4055.1	4075.2	4148.7	4224.5	4289.2	4095.2	3885.7	3725.2	3656.0	3647.1
55°	4266.9	4311.5	4391.7	4529.9	4748.4	4837.6	4503.2	4128.7	3932.5	3825.5	3803.2
56°	4385.0	4342.7	4480.9	4670.4	4955.7	5071.6	4570.1	4177.7	3961.5	3841.1	3838.8
57.5°	4271.3	4318.1	4414.0	4712.7	5062.7	5214.3	4594.6	4155.4	3845.5	3722.9	3734.1
60°	3372.9	3417.5	3546.8	3881.2	4429.6	4547.8	3887.9	3426.4	3150.0	2973.9	2976.1
62.5°	1908.3	1941.7	2042.0	2351.9	2693.0	2806.7	2423.2	2115.6	1923.9	1825.8	1794.6
65°	702.2	688.9	704.5	862.7	1072.3	1168.2	1007.6	851.6	751.3	715.6	702.2
67.5°	263.1	243.0	227.4	243.0	305.4	323.2	296.5	247.5	231.8	238.5	243.0
70°	162.7	153.8	122.6	115.9	113.7	111.5	118.2	124.8	142.7	167.2	171.7
72.5°	113.7	107.0	86.9	82.5	78.0	75.8	86.9	95.9	111.5	129.3	131.5
75°	44.6	46.8	44.6	49.0	51.3	53.5	62.4	69.1	75.8	75.8	73.6
77.5°	8.9	8.9	13.4	17.8	22.3	29.0	42.4	49.0	51.3	49.0	42.4
80°	0.0	0.0	4.5	8.9	17.8	24.5	37.9	42.4	46.8	42.4	33.4
82.5°	0.0	0.0	4.5	11.1	17.8	22.3	35.7	44.6	51.3	46.8	35.7
85°	0.0	0.0	4.5	8.9	13.4	15.6	15.6	11.1	11.1	6.7	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)