

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: P940900

Luminaire Tested: **GALN-SB4A-940-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-940-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

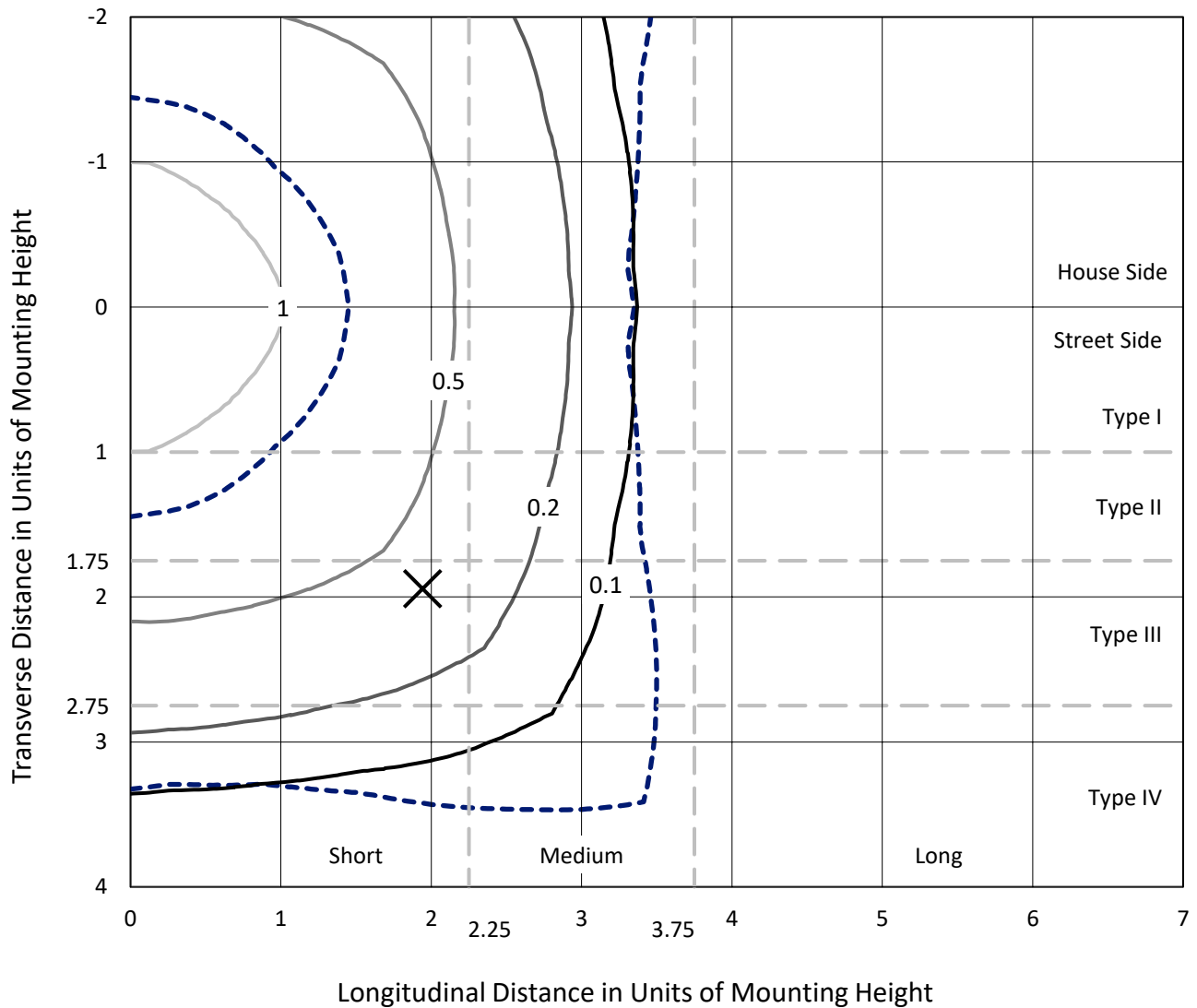
Lumens per Lamp: N/A  
Luminaire Lumens: 13177 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

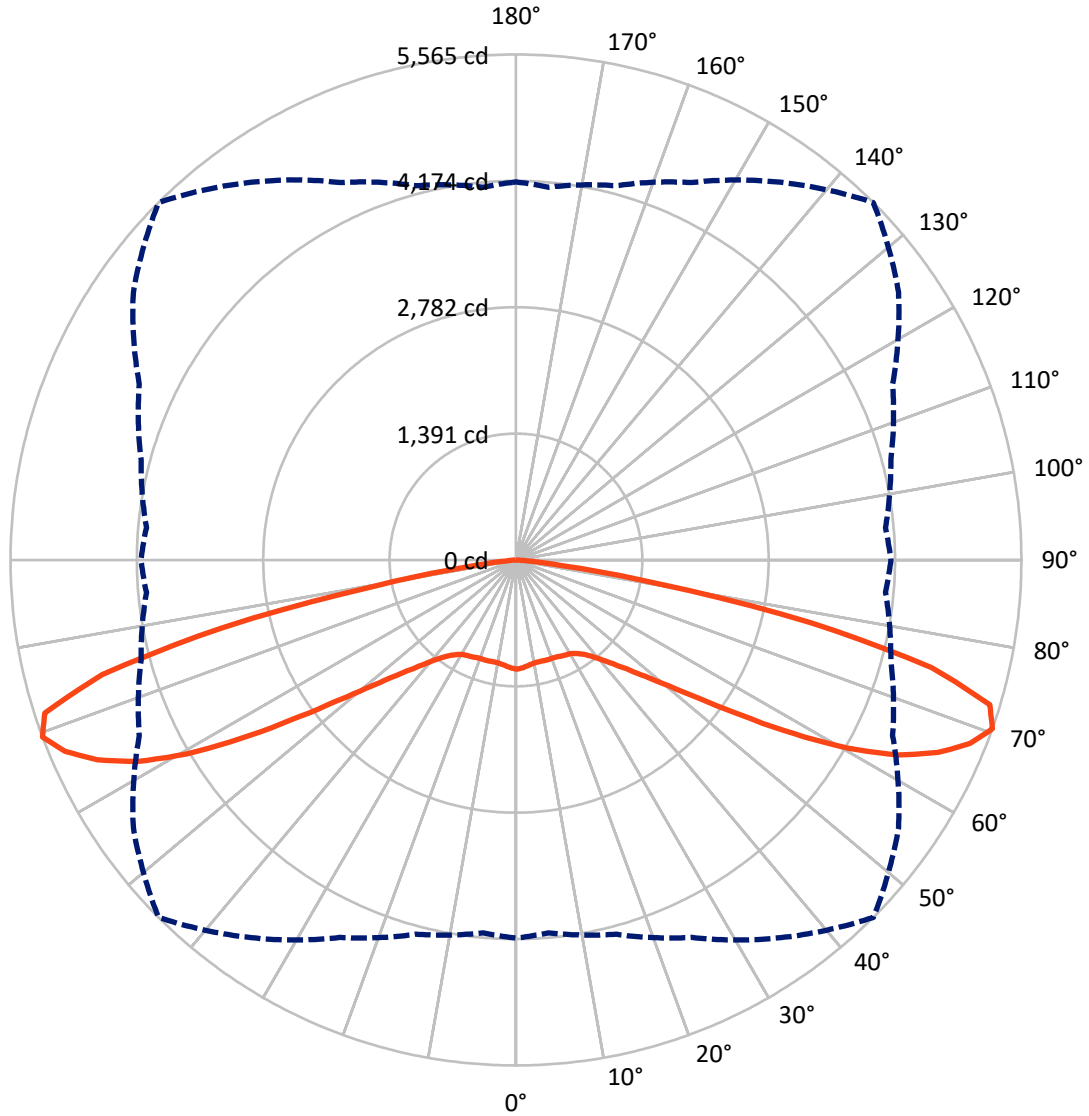
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6588.5	0.0	6588.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6588.5	0.0	6588.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13177.0	0.0	13177.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	0.8
10°-20°	328.3	2.5
20°-30°	546.4	4.1
30°-40°	826.3	6.3
40°-50°	1373.1	10.4
50°-60°	2590.9	19.7
60°-70°	4374.9	33.2
70°-80°	2874.7	21.8
80°-90°	150.6	1.1
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°	13177.0	100.0
0°-180°	13177.0	100.0



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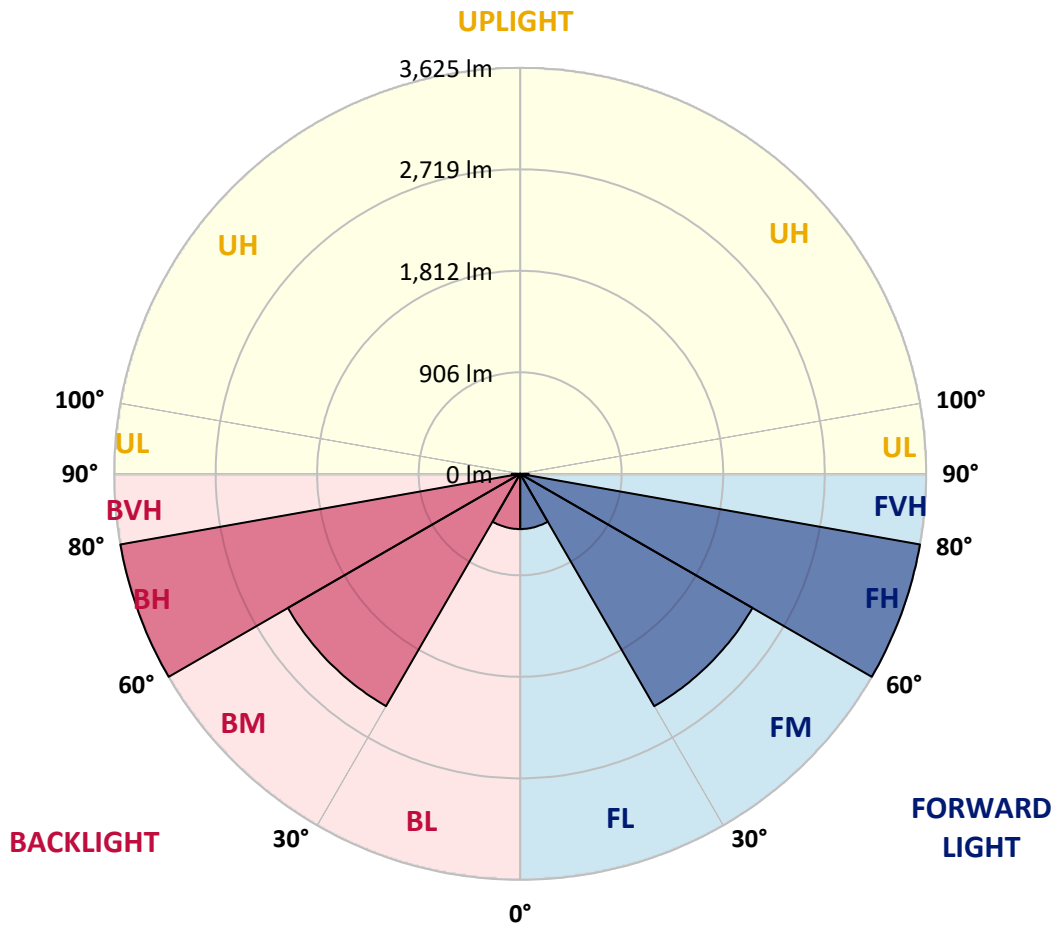
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.3	3.7			
FM (30°-60°)	2395.1	18.2			
FH (60°-80°)	3624.8	27.5			G2/5000
FVH (80°-90°)	75.3	0.6			G1/100
BL (0°-30°)	493.3	3.7	B1/500		
BM (30°-60°)	2395.1	18.2	B2/2500		
BH (60°-80°)	3624.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	75.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0	1202.0
2.5°	1194.5	1197.9	1196.5	1193.8	1193.8	1191.7	1193.8	1195.2	1197.2	1198.6
5°	1178.7	1181.5	1180.8	1178.7	1179.4	1177.4	1178.7	1180.8	1182.1	1182.8
7.5°	1165.0	1167.8	1166.4	1163.0	1163.0	1160.9	1161.6	1163.7	1165.7	1166.4
10°	1161.6	1164.3	1160.2	1154.7	1152.7	1150.0	1150.6	1152.7	1156.8	1158.9
12.5°	1163.0	1165.0	1160.9	1152.7	1150.6	1147.9	1147.9	1150.0	1155.4	1158.2
15°	1167.1	1169.1	1163.0	1154.1	1152.0	1150.0	1149.3	1152.0	1158.2	1163.0
17.5°	1174.6	1176.7	1167.1	1154.7	1152.0	1152.7	1152.0	1154.1	1163.7	1172.6
20°	1181.5	1182.8	1169.8	1154.7	1152.0	1152.7	1152.0	1156.1	1168.4	1180.8
22.5°	1183.5	1184.9	1172.6	1159.5	1157.5	1158.2	1157.5	1161.6	1173.2	1185.6
25°	1184.2	1186.3	1176.7	1166.4	1169.8	1171.2	1169.8	1170.5	1179.4	1190.4
27.5°	1194.5	1197.2	1188.3	1179.4	1181.5	1180.8	1182.8	1184.9	1191.7	1202.7
30°	1215.7	1217.8	1210.2	1201.3	1200.0	1195.2	1201.3	1208.2	1215.7	1225.3
32.5°	1250.6	1254.7	1245.2	1235.6	1229.4	1226.7	1231.5	1243.1	1253.4	1263.6
35°	1308.9	1311.6	1302.7	1284.9	1273.9	1273.9	1278.0	1293.1	1309.5	1322.6
37.5°	1391.0	1394.5	1378.7	1357.5	1341.0	1341.0	1346.5	1362.3	1386.9	1405.4
40°	1491.0	1495.8	1476.0	1454.1	1438.3	1435.6	1442.4	1460.2	1483.5	1506.8
42.5°	1611.6	1617.1	1591.0	1571.9	1559.5	1559.5	1563.0	1579.4	1600.6	1629.4
45°	1765.7	1775.3	1739.7	1720.5	1708.8	1711.6	1713.6	1728.0	1747.2	1780.1
47.5°	1949.2	1958.8	1921.2	1901.3	1899.2	1912.3	1904.0	1914.3	1924.6	1962.3
50°	2157.4	2173.9	2147.9	2146.5	2150.6	2174.6	2155.4	2160.9	2149.2	2173.2
52.5°	2412.2	2436.2	2431.4	2439.6	2485.5	2534.8	2491.0	2471.8	2428.0	2435.5
55°	2721.1	2757.4	2764.3	2813.6	2917.7	3018.4	2925.2	2847.8	2754.7	2737.6
57.5°	3072.5	3101.2	3134.1	3234.8	3429.3	3608.1	3429.3	3258.1	3111.5	3076.6
60°	3450.5	3486.2	3517.7	3666.3	3955.3	4206.7	3949.8	3677.9	3484.1	3436.9
62.5°	3856.7	3902.6	3924.5	4089.6	4426.5	4726.5	4431.3	4101.9	3886.8	3836.2
65°	4246.4	4284.1	4308.7	4484.8	4806.7	5107.3	4828.6	4503.9	4282.7	4216.3
67.5°	4427.9	4448.5	4508.7	4708.0	5047.7	5390.9	5105.3	4729.3	4482.0	4365.6
70°	4162.2	4120.4	4265.6	4584.8	5076.5	5564.9	5142.3	4575.2	4272.4	4083.4
72.5°	3216.3	3144.4	3396.4	3942.3	4747.8	5453.9	4780.6	3973.1	3553.3	3169.7
75°	1749.9	1668.4	2016.4	2706.7	3786.2	4727.2	3873.1	2784.1	2245.1	1736.9
77.5°	493.8	463.0	743.8	1309.5	2277.3	3319.0	2365.0	1338.3	882.2	523.3
80°	151.4	146.6	198.6	394.5	967.1	1589.7	929.4	399.3	252.7	159.6
82.5°	89.7	82.2	98.6	143.8	246.6	499.3	239.7	150.0	120.5	80.8
85°	51.4	47.9	58.2	69.9	82.9	106.2	69.2	71.2	64.4	43.1
87.5°	21.2	19.2	22.6	21.9	19.2	24.7	18.5	21.9	26.0	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1202.0
1197.9
1182.8
1166.4
1158.9
1158.9
1163.7
1172.6
1181.5
1185.6
1189.7
1200.0
1223.2
1259.5
1317.8
1398.6
1499.3
1627.3
1778.7
1951.3
2158.8
2410.2
2710.9
3051.9
3395.8
3795.1
4183.4
4367.0
4128.6
3264.9
1849.9
581.5
168.5
87.7
45.2
15.8
0.0

OF REPORT)