Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P945146

Luminaire Tested: **GALN-SB1A-940-U-5NQ**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P945146
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1A-940-U-5NQ
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3407 lumens
Efficiency:	N/A
Efficacy:	110.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - U0 - G0
Input Watts (W):	30.9
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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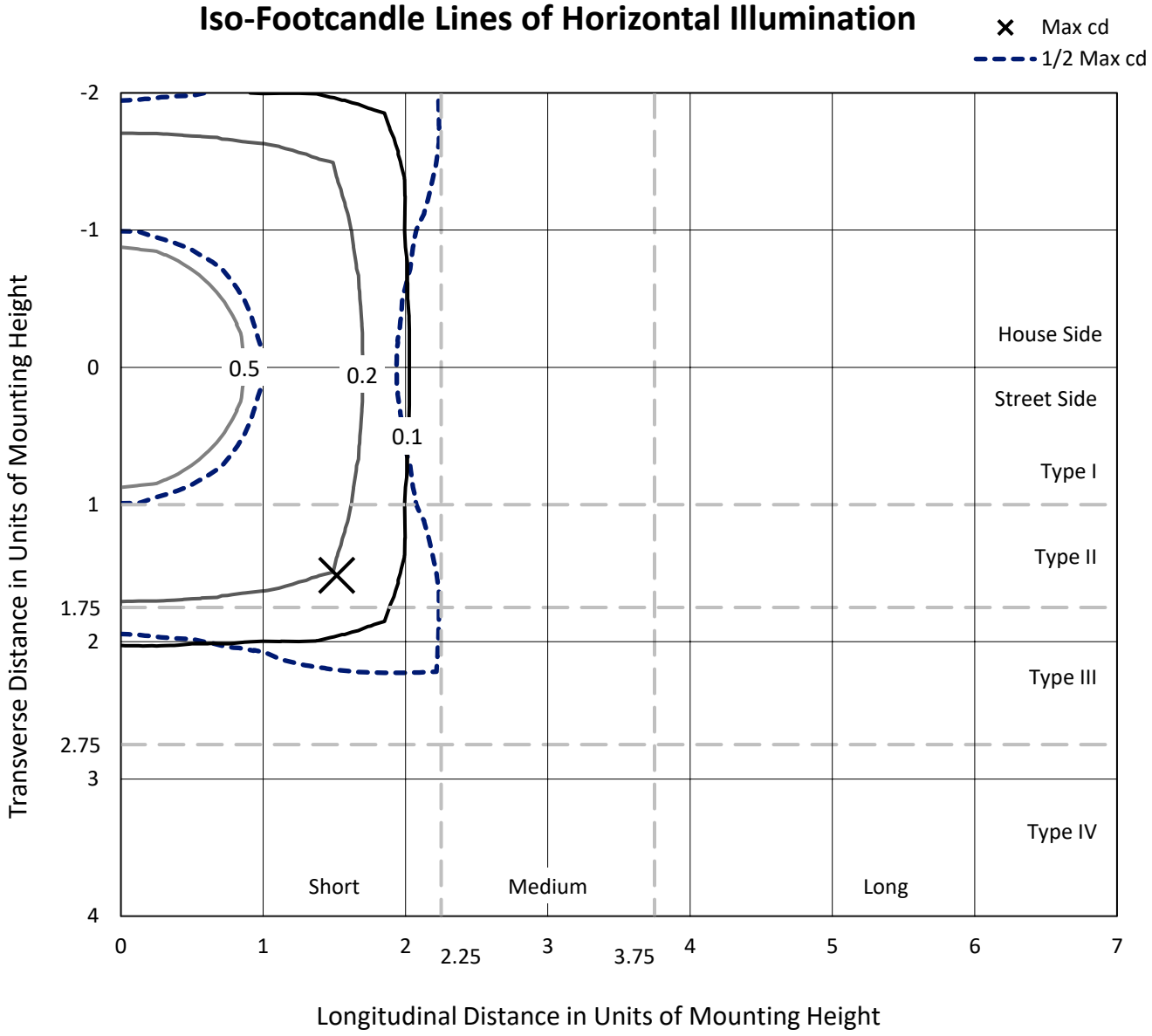
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type V - Short - N/A

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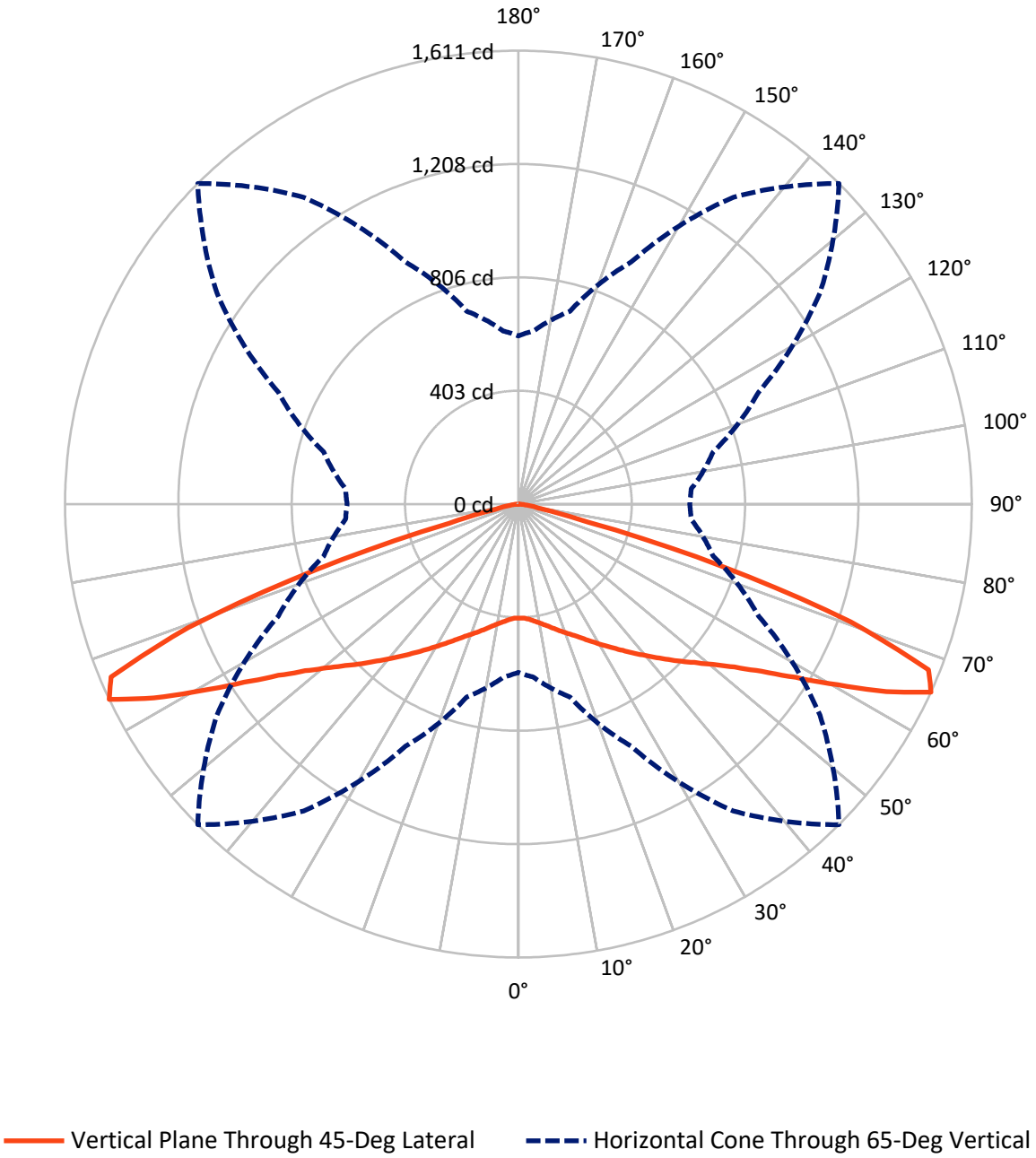
Luminous Intensity Polar Plot



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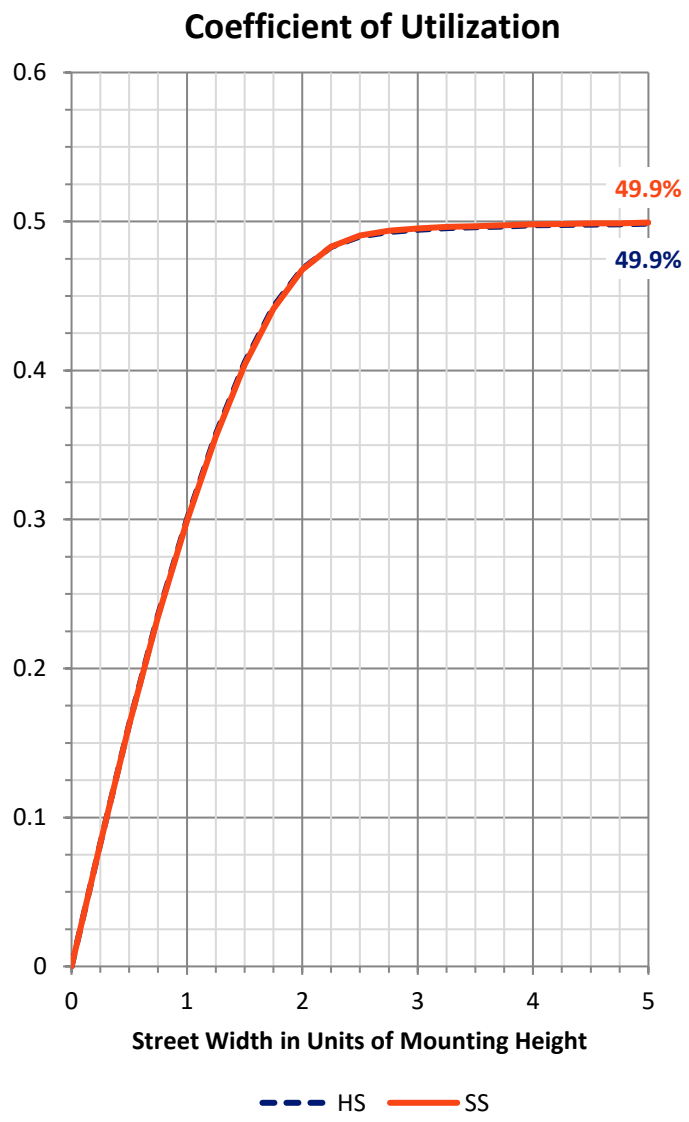
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1703.5	0.0	1703.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1703.5	0.0	1703.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3407.0	0.0	3407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	1.2
10°-20°	130.6	3.8
20°-30°	246.5	7.2
30°-40°	403.7	11.8
40°-50°	625.9	18.4
50°-60°	924.6	27.1
60°-70°	880.2	25.8
70°-80°	142.0	4.2
80°-90°	13.4	0.4
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°	3407.0	100.0
0°-180°	3407.0	100.0



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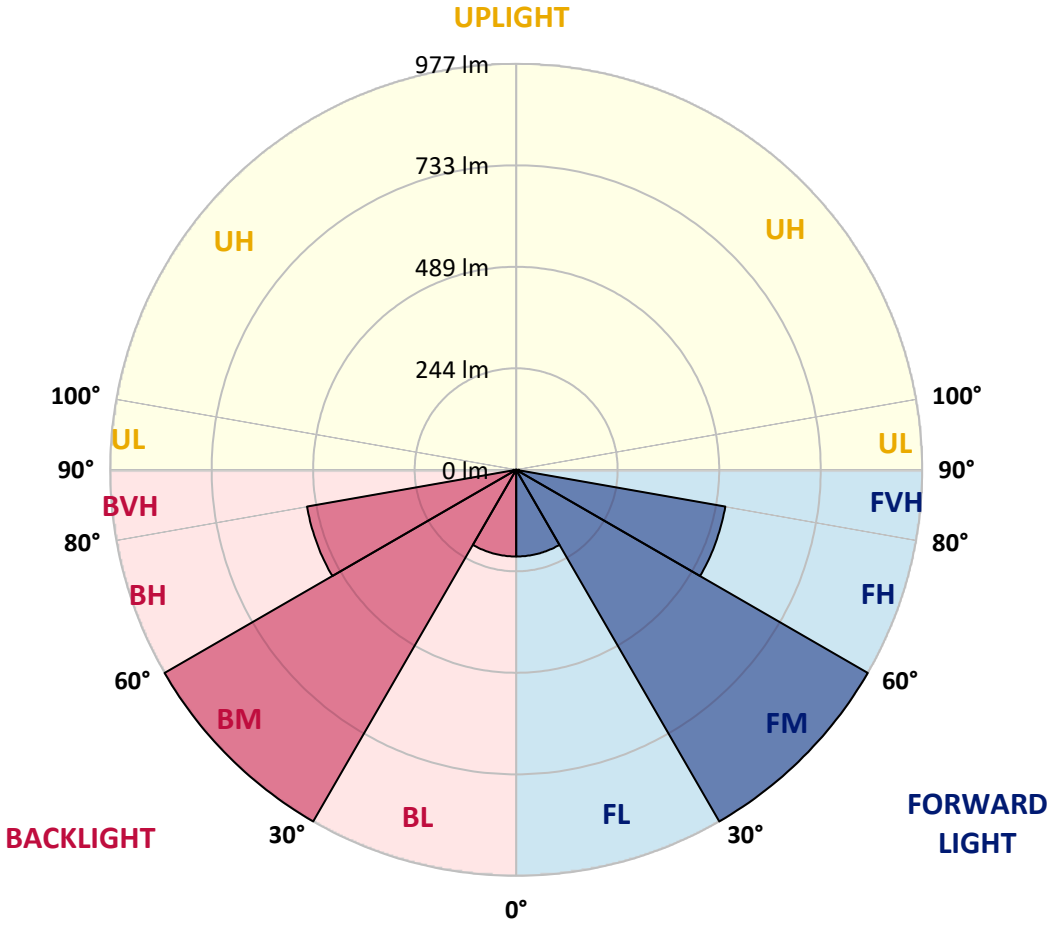
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	208.6	6.1			
FM	(30°-60°)	977.1	28.7			
FH	(60°-80°)	511.1	15.0			G0/660
FVH	(80°-90°)	6.7	0.2			G0/10
BL	(0°-30°)	208.6	6.1	B1/500		
BM	(30°-60°)	977.1	28.7	B1/1000		
BH	(60°-80°)	511.1	15.0	B2/1000		G0/660
BVH	(80°-90°)	6.7	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	405.5	405.5	405.5	405.5	405.5	405.5	405.5	405.5	405.5	405.5
2.5°	408.2	406.8	407.9	407.0	406.3	405.6	406.0	407.2	407.7	407.9
5°	413.7	412.5	413.0	413.0	411.8	411.4	411.6	412.5	413.5	413.5
7.5°	422.6	421.4	422.6	421.9	420.9	420.5	420.3	421.0	422.6	422.6
10°	433.3	432.0	432.6	432.3	431.1	430.6	430.4	431.4	432.8	432.6
12.5°	445.1	443.6	444.4	443.4	443.1	442.6	442.6	442.4	443.2	442.6
15°	458.3	457.3	457.6	456.9	457.4	457.1	455.7	455.0	455.4	454.4
17.5°	473.8	471.4	472.6	472.3	472.3	473.0	470.8	469.9	470.6	469.6
20°	491.8	489.4	489.9	489.2	488.4	489.1	486.3	487.0	487.5	486.8
22.5°	511.4	508.4	508.2	508.5	506.7	506.8	505.0	506.7	507.7	505.8
25°	531.6	528.4	530.6	529.7	527.3	527.9	526.5	528.2	529.1	526.7
27.5°	553.0	550.8	552.8	553.3	550.4	552.5	550.4	552.0	552.8	549.2
30°	577.9	575.7	577.6	579.0	575.6	578.8	577.1	578.1	578.3	574.0
32.5°	605.1	601.7	606.5	607.2	603.4	607.3	605.1	606.5	607.3	601.5
35°	638.3	634.0	639.5	638.6	635.4	638.6	636.6	638.6	640.7	633.7
37.5°	674.0	669.6	675.4	673.8	670.8	673.0	671.8	673.2	676.4	668.9
40°	713.3	707.9	715.7	713.0	710.1	709.7	710.4	711.3	715.6	707.2
42.5°	755.4	749.6	761.4	757.1	753.0	750.3	752.5	754.2	758.3	748.9
45°	803.4	796.7	812.1	807.0	800.5	794.9	798.5	801.0	807.0	795.7
47.5°	856.4	848.9	865.3	863.8	853.2	840.8	849.1	856.4	860.8	847.2
50°	908.2	902.4	923.9	925.8	912.8	895.5	907.0	918.1	919.3	901.4
52.5°	956.7	950.9	982.2	994.0	982.4	961.9	974.0	985.3	976.2	953.0
55°	995.5	990.8	1030.6	1061.0	1064.9	1048.0	1055.2	1054.9	1025.1	989.4
57.5°	1004.9	1004.3	1054.5	1119.0	1160.0	1162.0	1147.9	1111.6	1047.5	999.5
60°	962.2	966.5	1035.5	1149.2	1258.6	1304.1	1242.7	1139.3	1022.0	955.4
62.5°	834.4	845.6	928.9	1112.3	1338.3	1467.5	1318.8	1097.3	917.4	830.4
65°	597.9	617.6	709.6	949.2	1331.1	1611.1	1307.9	941.5	716.4	616.1
67.5°	271.3	291.3	369.4	649.9	1157.1	1572.1	1154.4	656.7	387.9	292.3
70°	98.3	101.7	126.8	260.2	739.5	1252.6	771.1	262.0	134.9	108.4
72.5°	59.5	60.0	65.3	93.2	256.9	760.5	267.9	96.2	66.7	59.1
75°	37.8	37.4	46.5	56.9	91.1	256.6	95.6	56.9	46.3	42.2
77.5°	27.2	28.0	33.3	42.6	57.4	87.0	56.4	40.7	33.3	27.4
80°	20.3	20.9	24.3	33.2	40.3	54.2	35.9	30.1	25.1	17.1
82.5°	14.7	14.7	15.9	24.1	24.6	29.2	19.5	21.2	16.6	12.1
85°	8.7	8.5	9.9	14.4	12.8	10.8	8.9	13.0	10.4	7.5
87.5°	3.1	3.2	3.1	4.1	3.4	2.9	2.7	3.6	2.9	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
405.5
407.9
413.5
422.0
432.3
442.9
454.5
470.4
488.4
507.7
529.4
552.0
576.6
605.5
637.9
673.5
709.9
753.8
801.5
851.8
903.6
953.7
990.6
996.4
947.5
825.3
608.7
288.0
107.0
60.2
42.6
27.9
17.6
12.1
7.4
2.4
0.0

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