

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: P450391

Luminaire Tested: **GALN-SA1A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

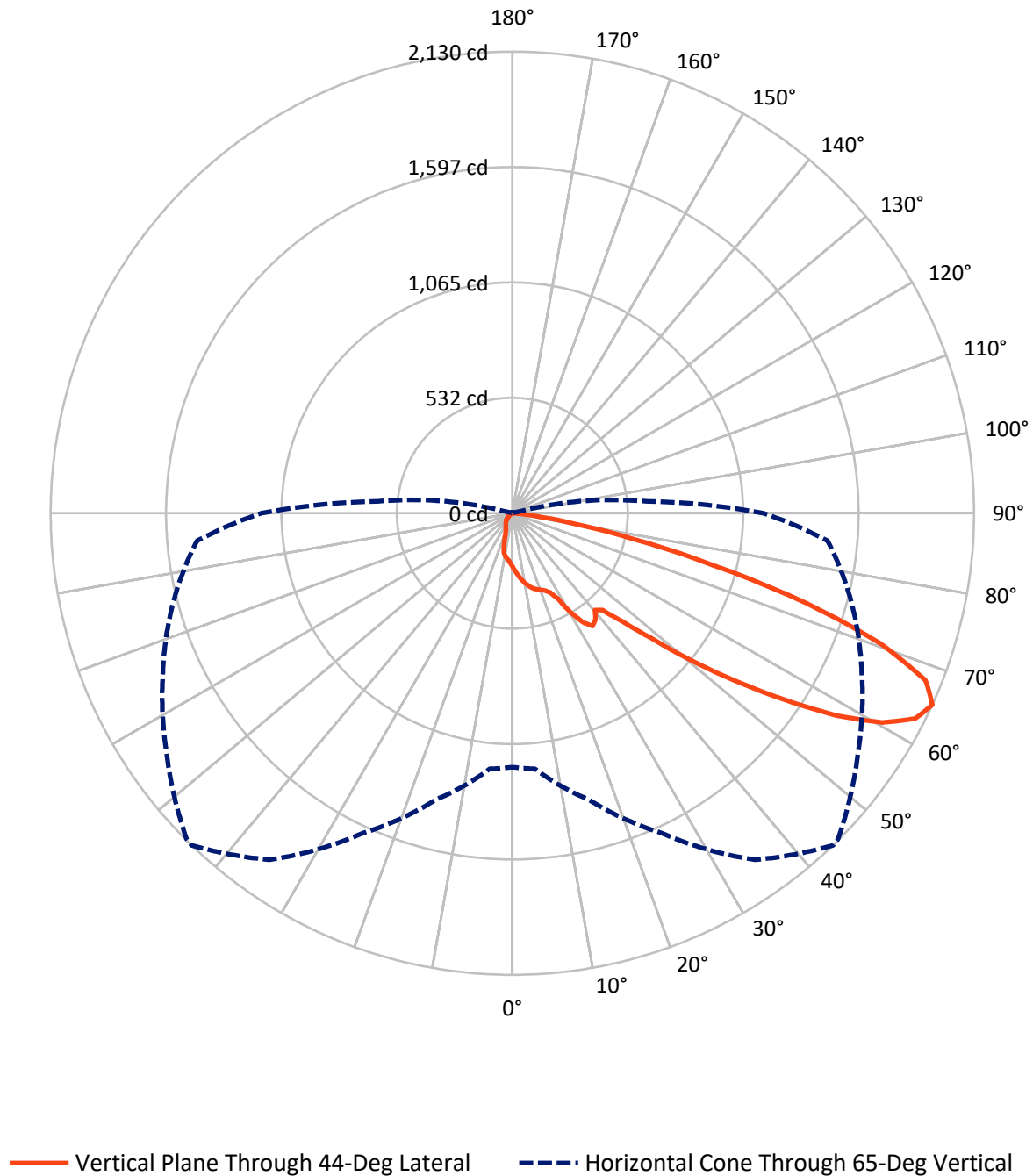
Lumens per Lamp: N/A
Luminaire Lumens: 2660 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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: P450391
CATALOG NUMBER: GALN-SA1A-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P450391

CATALOG NUMBER: GALN-SA1A-830-U-T4W-HSS

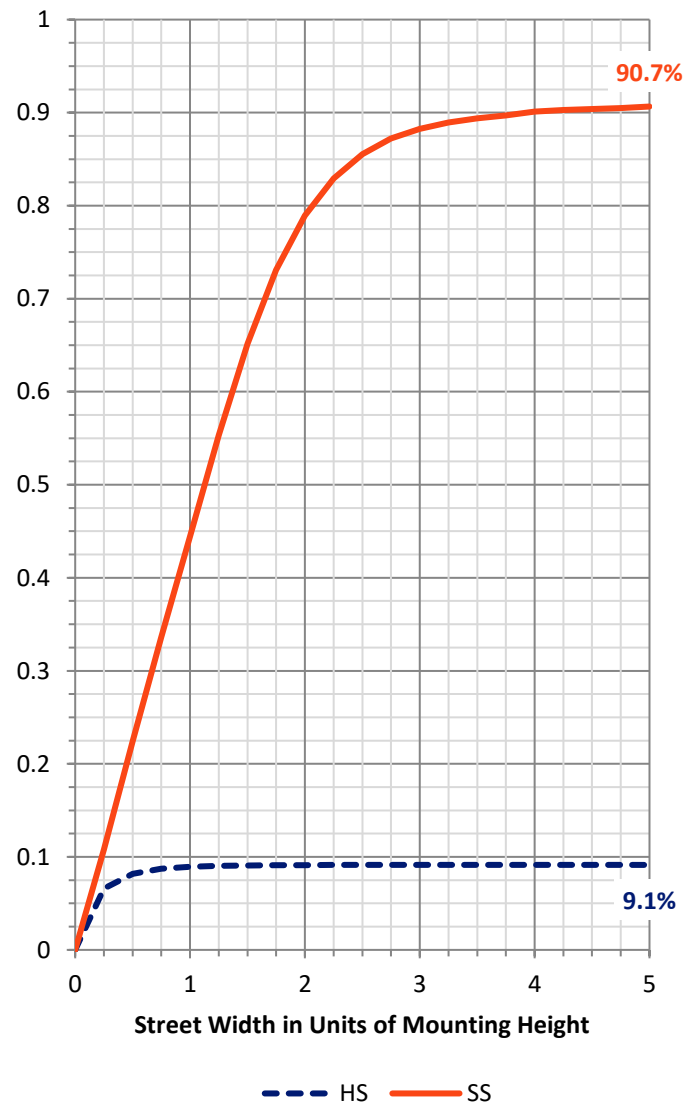
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	245.1	0.0	245.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2414.9	0.0	2414.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	2660.0	0.0	2660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	0.9
10°-20°	74.1	2.8
20°-30°	125.7	4.7
30°-40°	208.9	7.9
40°-50°	364.8	13.7
50°-60°	712.7	26.8
60°-70°	826.9	31.1
70°-80°	301.1	11.3
80°-90°	21.2	0.8
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°	2660.0	100.0
0°-180°	2660.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450391

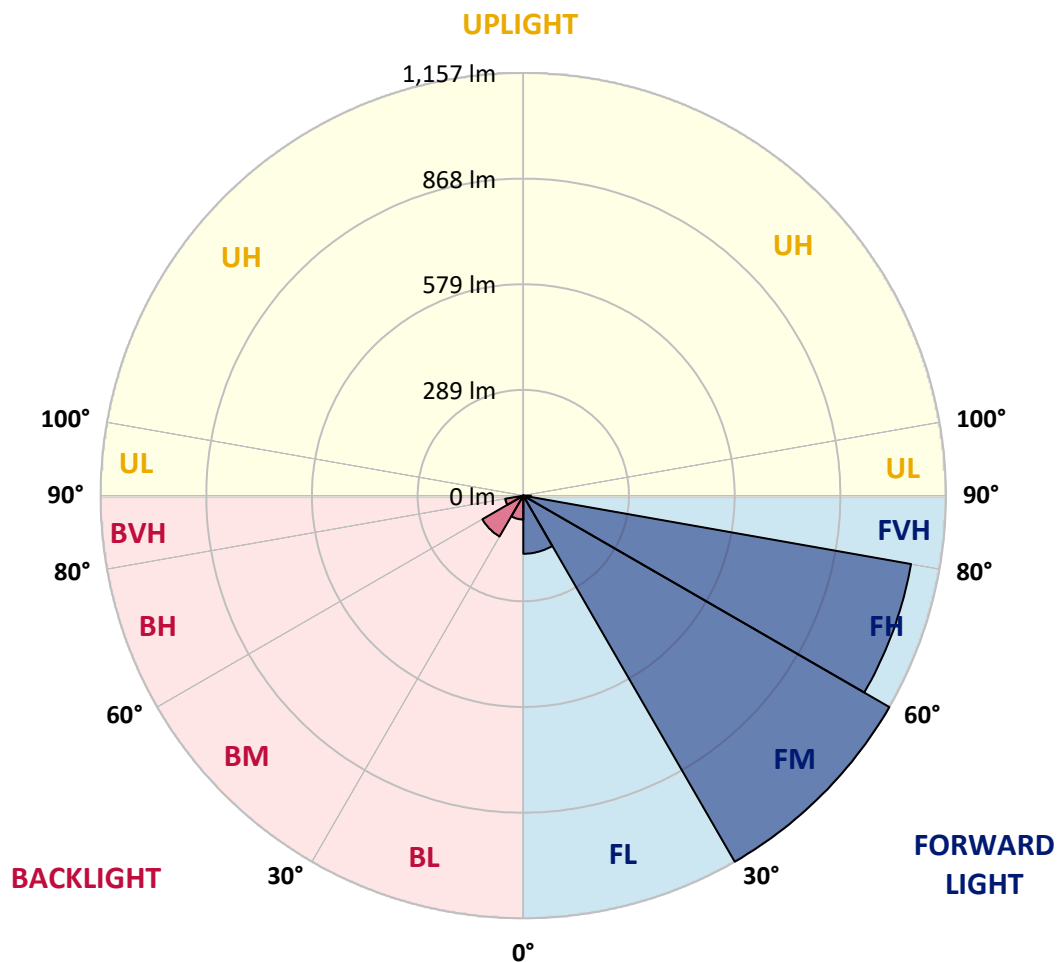
CATALOG NUMBER: GALN-SA1A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.1	6.0			
FM	(30°-60°)	1157.1	43.5			
FH	(60°-80°)	1077.8	40.5			G1/1800
FVH	(80°-90°)	20.9	0.8			G1/100
BL	(0°-30°)	65.3	2.5	B0/110		
BM	(30°-60°)	129.3	4.9	B0/220		
BH	(60°-80°)	50.2	1.9	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P450391

CATALOG NUMBER: GALN-SA1A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
2.5°	278.7	277.4	276.8	273.6	271.1	268.1	268.1	264.2	259.8	254.9	250.4
5°	309.8	307.7	305.1	302.2	296.6	288.4	288.4	280.3	270.9	262.6	253.5
7.5°	339.6	337.8	333.3	327.9	318.5	310.0	309.4	297.6	286.4	273.8	260.8
10°	365.9	364.4	360.6	350.0	340.3	329.1	328.9	315.7	302.6	287.2	271.1
12.5°	384.2	384.4	379.3	369.1	356.5	345.9	345.1	332.1	318.5	301.8	282.1
15°	397.2	397.2	391.9	380.5	369.1	359.8	359.0	347.6	333.5	315.5	294.1
17.5°	400.8	402.0	396.4	386.2	377.0	368.9	368.7	359.2	348.0	330.5	306.3
20°	399.4	400.6	396.1	388.2	381.9	377.2	376.6	372.8	362.4	345.9	319.3
22.5°	396.4	397.6	394.3	389.6	386.6	388.0	387.0	390.3	384.8	364.8	334.8
25°	397.0	398.2	395.7	393.1	395.7	404.5	407.1	421.1	416.3	388.8	351.4
27.5°	416.1	418.5	415.1	416.3	425.6	445.9	451.0	475.2	453.7	419.3	377.4
30°	458.5	456.9	450.4	456.3	488.8	531.9	530.5	526.6	492.9	454.5	408.3
32.5°	497.2	495.7	495.3	520.7	579.7	600.6	599.6	562.2	528.1	494.7	438.8
35°	512.8	507.3	506.1	567.7	666.3	638.6	632.3	576.8	570.7	538.6	469.9
37.5°	560.0	556.1	537.2	575.4	631.7	622.6	617.7	602.0	616.3	577.5	505.1
40°	657.1	646.4	629.3	591.9	582.7	586.6	591.5	634.4	670.1	630.5	552.0
42.5°	777.9	775.4	743.7	674.0	605.5	610.8	617.1	701.8	747.6	710.4	628.7
45°	922.8	926.2	880.5	798.2	708.3	712.8	722.0	801.4	852.5	834.6	749.2
47.5°	1054.5	1051.9	1036.4	950.8	867.9	857.9	872.8	929.3	997.6	1000.4	898.8
50°	1187.0	1201.0	1178.1	1144.5	1083.0	1062.0	1056.5	1084.2	1188.2	1174.6	1078.5
52.5°	1377.5	1384.8	1341.7	1333.2	1347.2	1279.3	1273.8	1280.5	1373.6	1326.9	1213.0
55°	1497.2	1492.9	1476.9	1543.5	1599.0	1514.3	1507.4	1480.3	1527.5	1434.4	1342.5
57.5°	1535.0	1541.1	1578.5	1699.0	1830.3	1758.4	1745.8	1668.9	1638.5	1534.6	1461.6
60°	1518.1	1529.3	1610.0	1789.3	1971.4	1960.6	1949.8	1820.8	1718.1	1618.3	1545.2
62.5°	1398.0	1413.7	1542.7	1773.2	2019.2	2086.4	2073.0	1915.5	1771.2	1659.0	1559.8
65°	1171.6	1183.2	1368.5	1627.5	1951.3	2129.5	2124.6	1945.2	1779.5	1621.8	1459.6
67.5°	835.2	874.6	1046.4	1371.6	1750.4	2055.9	2064.3	1909.6	1701.3	1461.0	1208.8
70°	525.0	551.8	675.0	981.9	1403.3	1803.7	1831.1	1746.8	1476.5	1138.8	809.2
72.5°	250.4	270.3	358.1	621.6	990.5	1419.1	1440.9	1434.0	1141.7	717.5	417.5
75°	111.6	119.1	170.9	317.3	639.4	953.9	1010.2	1019.5	713.4	351.0	162.4
77.5°	56.9	57.1	80.1	153.7	319.3	569.1	580.3	613.0	386.8	154.7	56.5
80°	30.3	32.3	42.5	72.6	165.7	280.3	278.9	306.5	171.5	75.8	18.9
82.5°	13.6	15.0	24.0	38.0	80.9	106.3	114.6	125.4	73.6	48.4	8.3
85°	4.1	4.9	11.8	19.1	29.3	30.7	34.4	44.3	41.7	34.4	4.3
87.5°	0.6	0.6	4.9	5.3	4.3	5.5	5.7	6.3	13.4	12.6	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P450391

CATALOG NUMBER: GALN-SA1A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
2.5°	248.0	246.6	241.5	237.2	233.5	231.3	228.7	227.0	226.2	225.6	225.8
5°	249.0	245.5	236.8	229.9	224.6	218.9	215.0	212.8	211.8	210.2	210.2
7.5°	254.7	249.2	237.0	226.4	217.3	209.6	202.2	199.6	197.8	197.4	197.0
10°	262.8	255.9	239.2	224.6	211.6	201.0	190.7	181.5	174.4	170.1	169.5
12.5°	273.0	263.0	242.7	223.4	206.7	188.0	160.6	142.1	129.7	125.8	126.4
15°	282.3	271.6	246.1	222.4	197.8	155.9	124.8	103.7	97.4	96.8	97.0
17.5°	293.5	280.7	250.2	220.9	173.2	119.1	92.7	87.0	88.2	90.2	90.0
20°	305.1	290.5	255.1	212.4	138.2	89.6	81.9	82.5	84.4	86.2	86.6
22.5°	317.5	301.6	260.8	191.9	105.5	78.1	77.6	78.5	80.3	82.3	82.7
25°	334.6	315.7	265.0	165.0	79.9	72.2	73.0	74.4	76.0	78.3	78.7
27.5°	356.5	334.6	267.3	130.1	69.1	66.9	67.1	69.1	71.1	73.2	73.2
30°	385.0	357.1	262.8	98.4	63.8	61.8	61.0	62.2	64.8	66.9	67.1
32.5°	410.4	378.5	251.0	75.2	60.0	57.1	55.1	55.3	56.3	57.5	57.7
35°	435.8	399.2	230.9	63.2	55.9	52.6	49.6	48.0	47.2	46.5	47.2
37.5°	468.3	425.0	204.1	57.5	52.4	48.4	44.1	40.7	37.8	36.0	36.4
40°	510.2	460.8	172.4	53.9	49.2	44.3	38.6	34.1	29.3	27.6	26.8
42.5°	579.3	515.1	139.0	50.8	45.9	40.0	32.9	26.8	22.4	20.7	21.1
45°	688.4	583.6	107.1	47.6	42.7	35.4	27.6	21.1	17.5	16.7	17.1
47.5°	833.1	672.2	82.5	43.9	38.6	30.3	21.7	16.7	14.4	14.2	14.0
50°	969.3	754.7	68.9	39.8	33.7	25.2	17.9	14.0	12.6	12.4	12.4
52.5°	1092.5	813.8	56.1	35.2	28.5	20.7	15.0	12.4	11.2	10.6	10.6
55°	1202.1	852.5	45.5	29.5	22.4	16.5	13.0	11.2	9.8	8.9	8.7
57.5°	1284.8	857.1	34.1	23.6	16.7	12.8	11.2	9.8	8.1	7.1	6.7
60°	1320.2	816.7	25.2	17.9	12.4	10.2	8.9	7.9	6.1	5.1	4.9
62.5°	1284.6	738.0	18.7	13.6	9.6	7.5	6.3	5.9	4.3	3.0	2.8
65°	1157.1	624.4	14.8	10.4	7.1	5.5	4.1	3.9	2.6	1.4	1.2
67.5°	927.1	489.0	11.8	7.7	5.1	3.7	2.6	2.4	1.4	0.4	0.4
70°	602.9	312.6	9.6	5.7	3.3	2.4	1.6	1.2	0.8	0.2	0.0
72.5°	298.2	146.1	7.7	4.5	2.2	1.2	0.6	0.4	0.6	0.0	0.0
75°	115.7	52.0	5.7	3.0	1.2	0.6	0.4	0.0	0.2	0.0	0.0
77.5°	38.4	17.3	3.5	1.6	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	14.2	6.7	1.8	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	5.7	2.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.6	0.8	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.2	0.8	0.6	0.4	0.2	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)