

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: P457224

Luminaire Tested: **GALN-SA8C-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56671 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

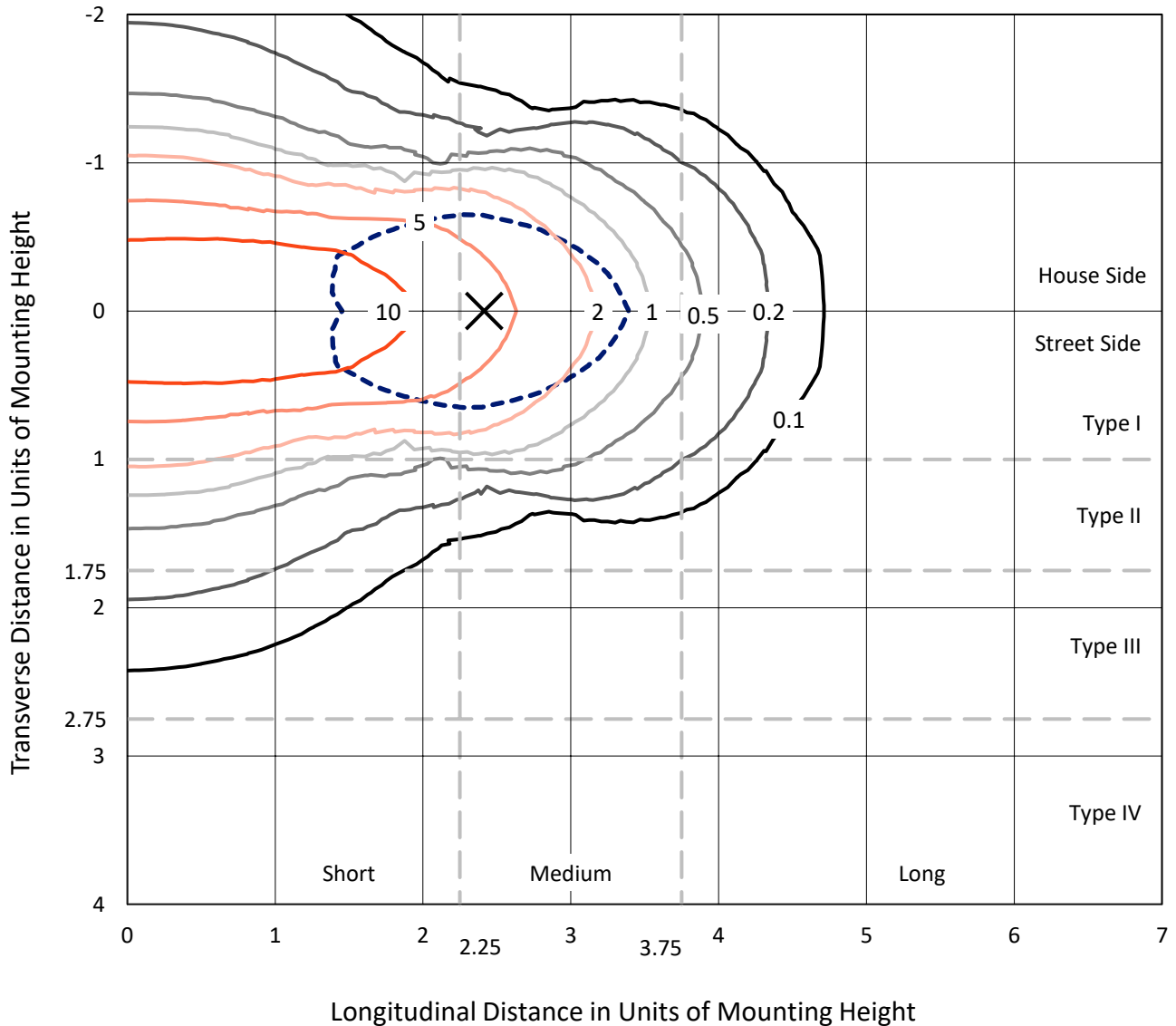
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457224
 CATALOG NUMBER: GALN-SA8C-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

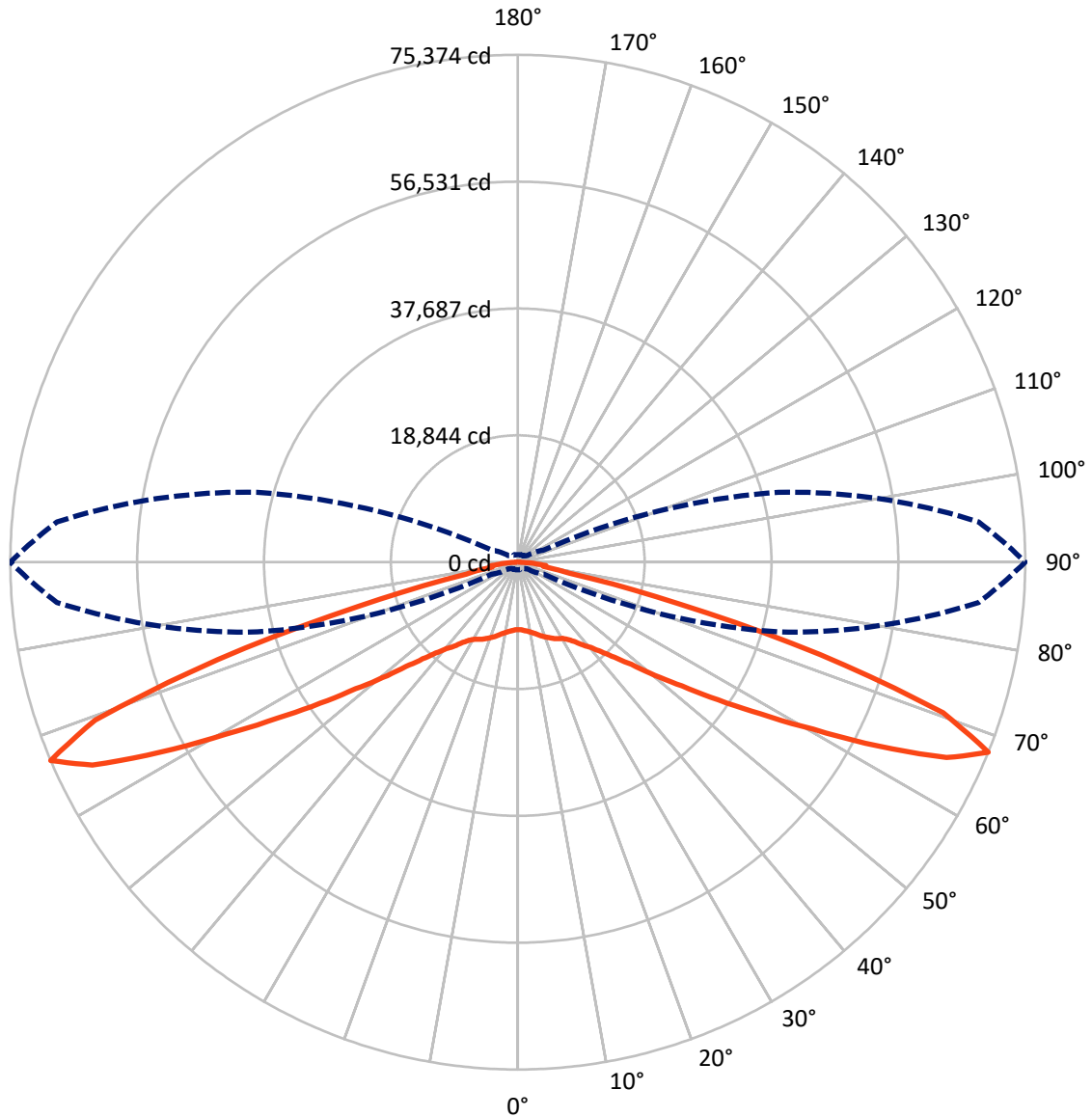
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type I - Short - N/A

REPORT NUMBER: P457224
CATALOG NUMBER: GALN-SA8C-740-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P457224

CATALOG NUMBER: GALN-SA8C-740-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28335.5	0.0	28335.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28335.5	0.0	28335.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	56671.0	0.0	56671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.2	1.8
10°-20°	3200.2	5.6
20°-30°	5356.4	9.5
30°-40°	7256.5	12.8
40°-50°	9191.5	16.2
50°-60°	11482.5	20.3
60°-70°	13497.2	23.8
70°-80°	5163.3	9.1
80°-90°	523.1	0.9
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°	56671.0	100.0
0°-180°	56671.0	100.0



REPORT NUMBER: P457224

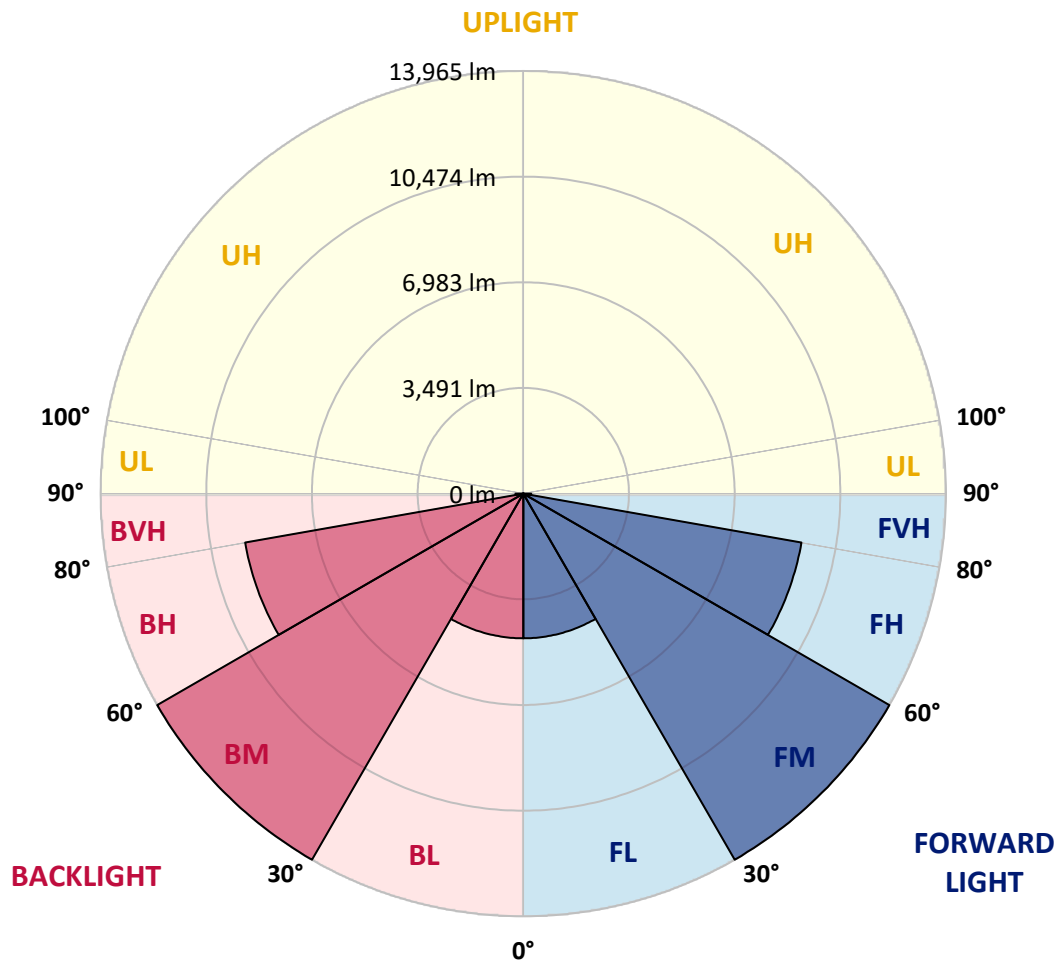
CATALOG NUMBER: GALN-SA8C-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4778.4	8.4			
FM (30°-60°)	13965.3	24.6			
FH (60°-80°)	9330.3	16.5			G4/12000
FVH (80°-90°)	261.5	0.5			G3/500
BL (0°-30°)	4778.4	8.4	B4/5000		
BM (30°-60°)	13965.3	24.6	B5		
BH (60°-80°)	9330.3	16.5	B5		G5
BVH (80°-90°)	261.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





REPORT NUMBER: P457224
 CATALOG NUMBER: GALN-SA8C-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10032.5	10032.5	10032.5	10032.5	10032.5	10032.5	10032.5	10032.5	10032.5	10032.5	10032.5
2.5°	10161.2	10154.9	10158.1	10154.9	10164.3	10158.1	10120.4	10089.0	10063.9	10067.1	10057.6
5°	10377.7	10380.9	10384.0	10368.3	10390.3	10377.7	10318.1	10267.9	10217.7	10198.9	10192.6
7.5°	10556.6	10572.3	10581.7	10597.4	10635.0	10635.0	10603.7	10531.5	10421.7	10358.9	10355.8
10°	10735.5	10748.0	10776.3	10826.5	10889.2	10948.9	10936.3	10839.0	10697.8	10591.1	10566.0
12.5°	10798.2	10813.9	10908.1	11052.4	11193.6	11309.7	11309.7	11231.3	11049.3	10886.1	10839.0
15°	10578.6	10606.8	10776.3	11083.8	11454.1	11708.3	11764.8	11654.9	11460.4	11209.3	11152.8
17.5°	10142.4	10211.4	10459.3	10914.3	11529.4	12056.6	12219.8	12166.4	11915.4	11595.3	11529.4
20°	9674.8	9750.1	10013.7	10616.2	11466.6	12260.6	12734.4	12747.0	12436.3	11971.9	11874.6
22.5°	9160.1	9216.6	9555.5	10261.6	11278.4	12307.7	13176.9	13393.4	12972.9	12348.5	12210.4
25°	8582.7	8645.5	9000.1	9762.7	10923.8	12254.3	13581.7	14058.7	13534.7	12750.1	12574.4
27.5°	8030.4	8055.5	8435.2	9210.3	10456.2	12116.2	13879.9	14670.7	14156.0	13082.8	12860.0
30°	7500.1	7559.7	7895.5	8661.2	9919.6	11846.4	14137.2	15367.3	14824.4	13431.1	13145.5
32.5°	6938.4	7010.5	7374.6	8149.7	9382.9	11441.5	14294.1	16129.9	15756.4	13996.0	13691.6
35°	6398.6	6445.7	6812.8	7566.0	8858.9	10970.8	14322.3	16989.7	16958.3	14852.7	14447.8
37.5°	5846.3	5915.3	6285.6	7007.4	8303.4	10471.9	14181.1	17902.9	18408.1	16042.0	15605.8
40°	5316.0	5375.6	5739.6	6467.6	7672.7	9863.1	13845.3	18737.6	20099.6	17265.9	16647.7
42.5°	4738.5	4754.2	5152.8	5893.4	7054.5	9157.0	13362.1	19481.4	21985.6	18907.1	18138.3
45°	4082.7	4123.5	4493.8	5221.8	6345.3	8366.2	12706.2	20096.4	24376.8	21182.2	20134.1
47.5°	3426.8	3461.3	3800.2	4518.9	5570.1	7459.3	11695.7	20636.2	26830.8	24072.4	22697.9
50°	2786.6	2805.5	3081.6	3718.7	4697.7	6505.3	10443.6	20808.8	29604.9	28164.5	26410.3
52.5°	2203.0	2231.2	2441.4	2940.4	3765.7	5378.7	9091.1	20382.0	32843.4	33016.0	30543.2
55°	1785.6	1795.0	1951.9	2319.1	2943.5	4198.8	7459.3	19192.7	36326.7	39232.6	36078.8
57.5°	1537.7	1543.9	1631.8	1835.8	2265.7	3166.4	5786.7	16942.6	39455.4	46516.2	42461.7
60°	1396.5	1399.6	1449.8	1569.1	1795.0	2428.9	4145.4	13766.9	42543.3	54621.9	50394.9
62.5°	1308.6	1308.6	1343.1	1409.0	1518.8	1864.0	3003.2	9932.1	44658.4	62846.9	60173.2
65°	1223.9	1223.9	1249.0	1296.0	1355.7	1525.1	2218.6	6477.1	44605.1	68837.5	70008.1
67.5°	1126.6	1126.6	1145.4	1192.5	1227.0	1311.7	1713.4	4242.7	40067.4	68705.7	75374.2
70°	1010.5	1010.5	1035.6	1076.4	1104.6	1158.0	1352.5	2902.7	29435.5	58663.8	67033.1
72.5°	894.4	897.5	913.2	954.0	976.0	1007.3	1123.4	2033.5	18056.7	39945.0	46870.8
75°	765.7	772.0	787.7	828.5	847.3	859.8	947.7	1449.8	9135.0	21536.8	24521.2
77.5°	618.2	630.8	640.2	684.1	696.7	715.5	781.4	1048.1	4010.5	7738.6	7807.6
80°	451.9	467.6	495.8	536.6	546.0	558.6	596.2	743.7	1817.0	3533.5	3837.9
82.5°	332.6	354.6	320.1	373.4	373.4	357.7	420.5	499.0	834.7	3499.0	4186.2
85°	182.0	185.1	166.3	191.4	204.0	200.8	222.8	244.8	404.8	2334.8	2406.9
87.5°	43.9	47.1	50.2	59.6	72.2	72.2	78.5	69.0	131.8	756.3	433.1
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)