

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: P450282

Luminaire Tested: **GALN-SA1A-750-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-750-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4774 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

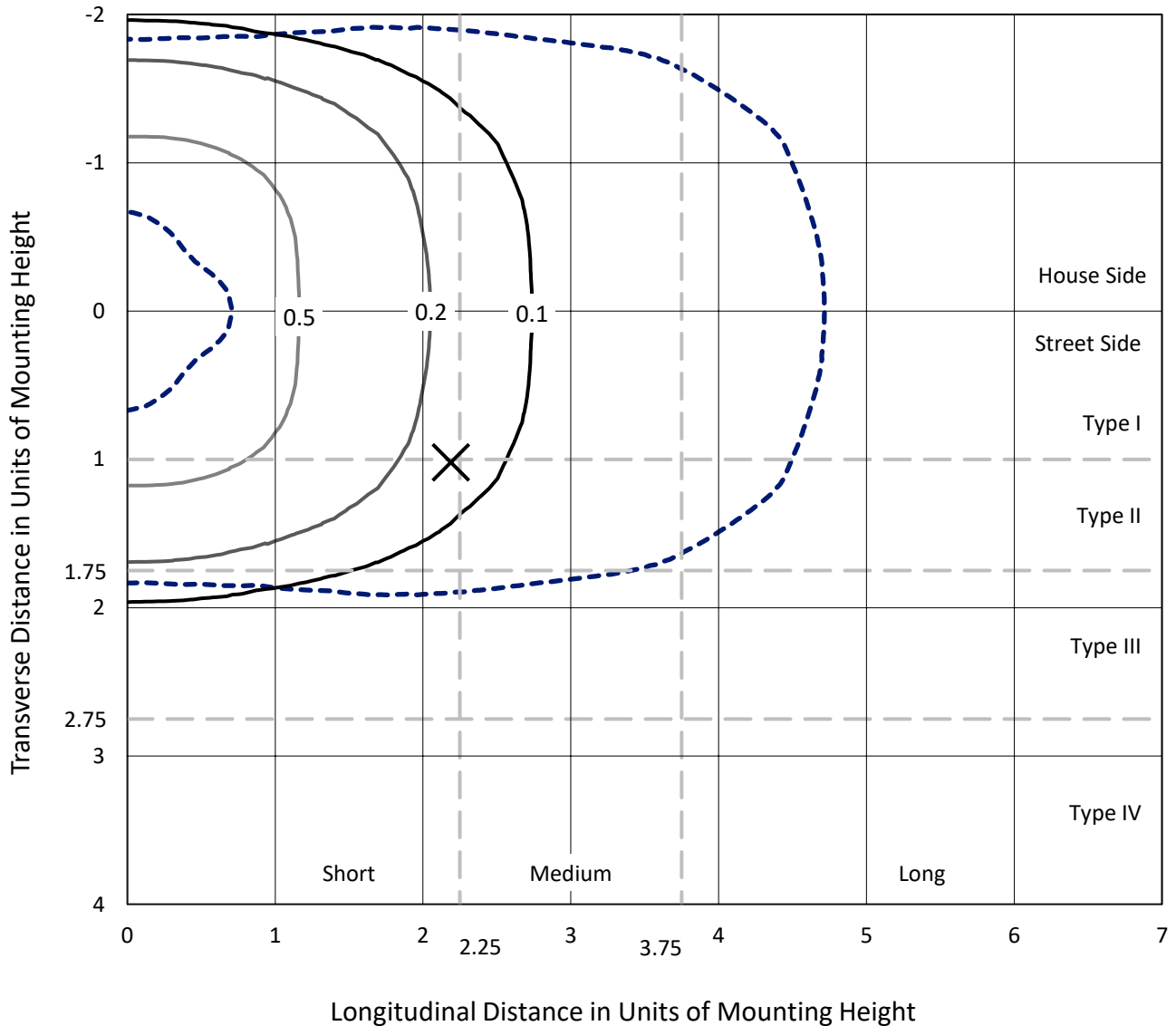
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

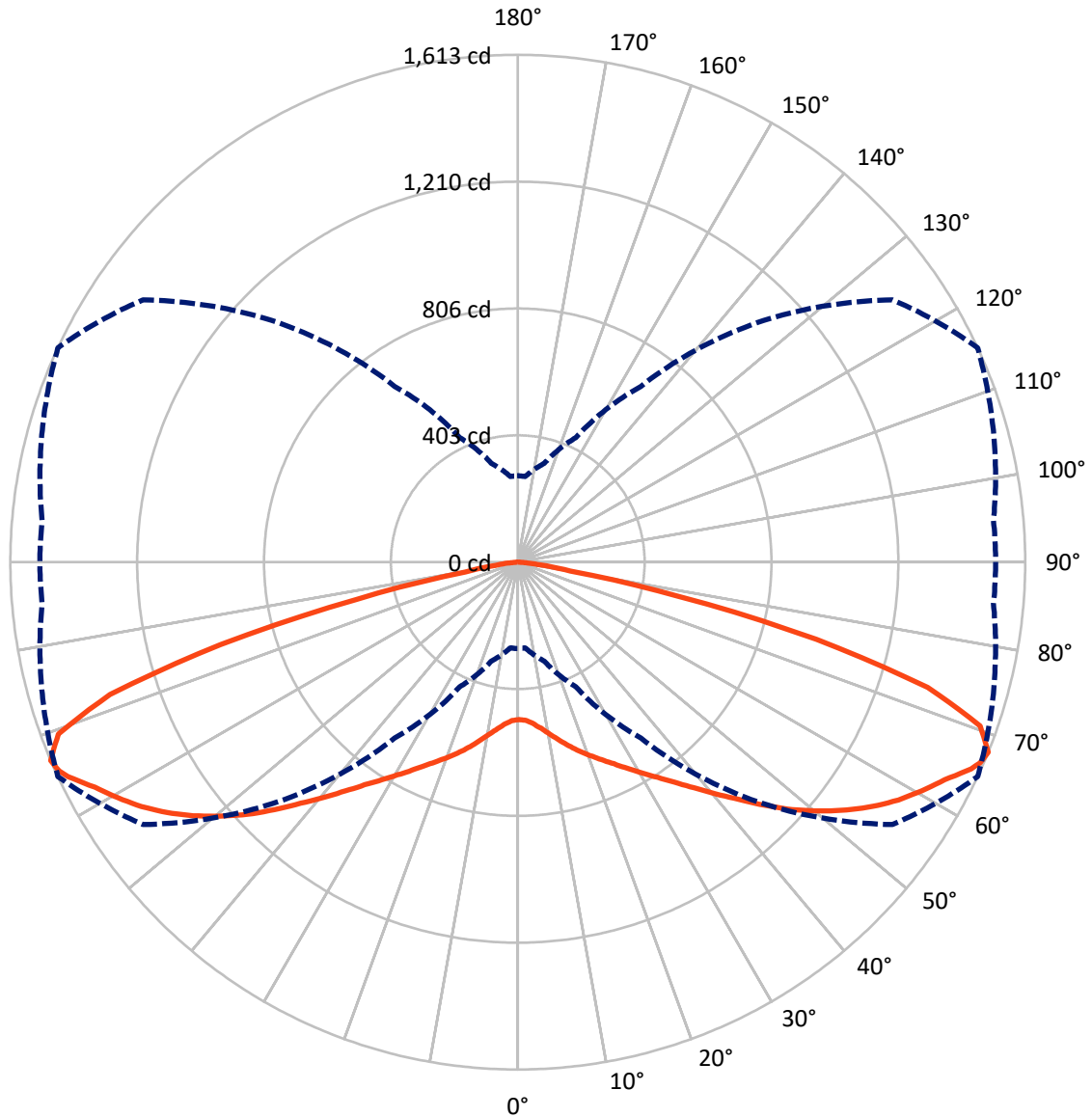
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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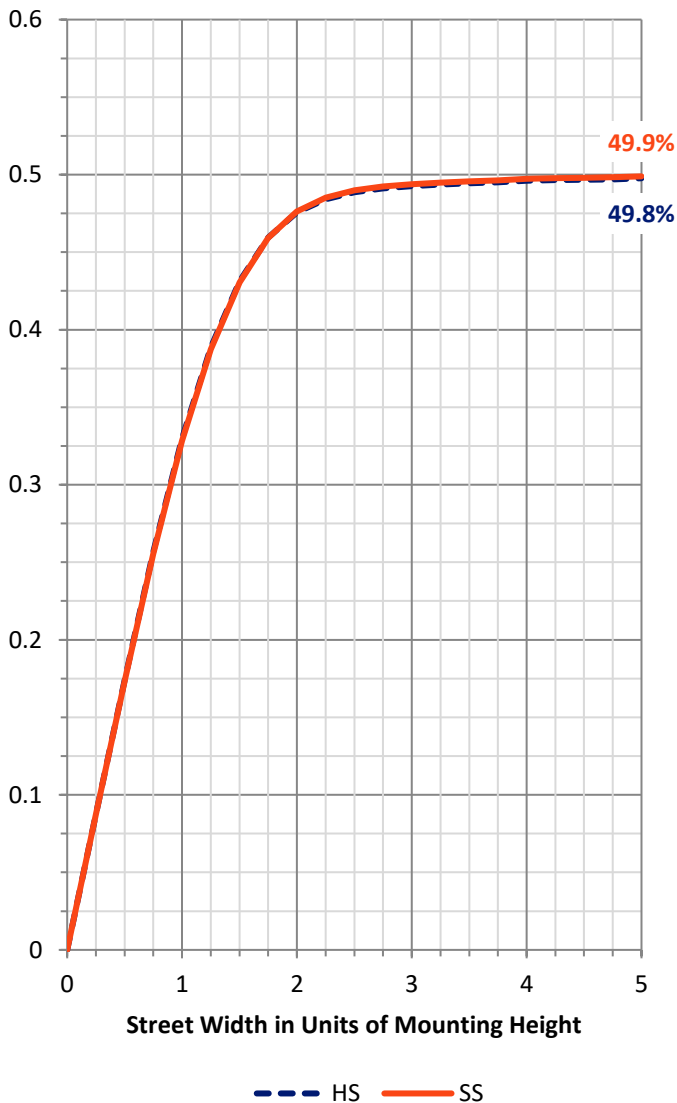
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.0	0.0	2387.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2387.0	0.0	2387.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4774.0	0.0	4774.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.0
10°-20°	165.1	3.5
20°-30°	322.9	6.8
30°-40°	549.2	11.5
40°-50°	869.2	18.2
50°-60°	1152.5	24.1
60°-70°	1087.1	22.8
70°-80°	537.4	11.3
80°-90°	41.4	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°	4774.0	100.0
0°-180°	4774.0	100.0



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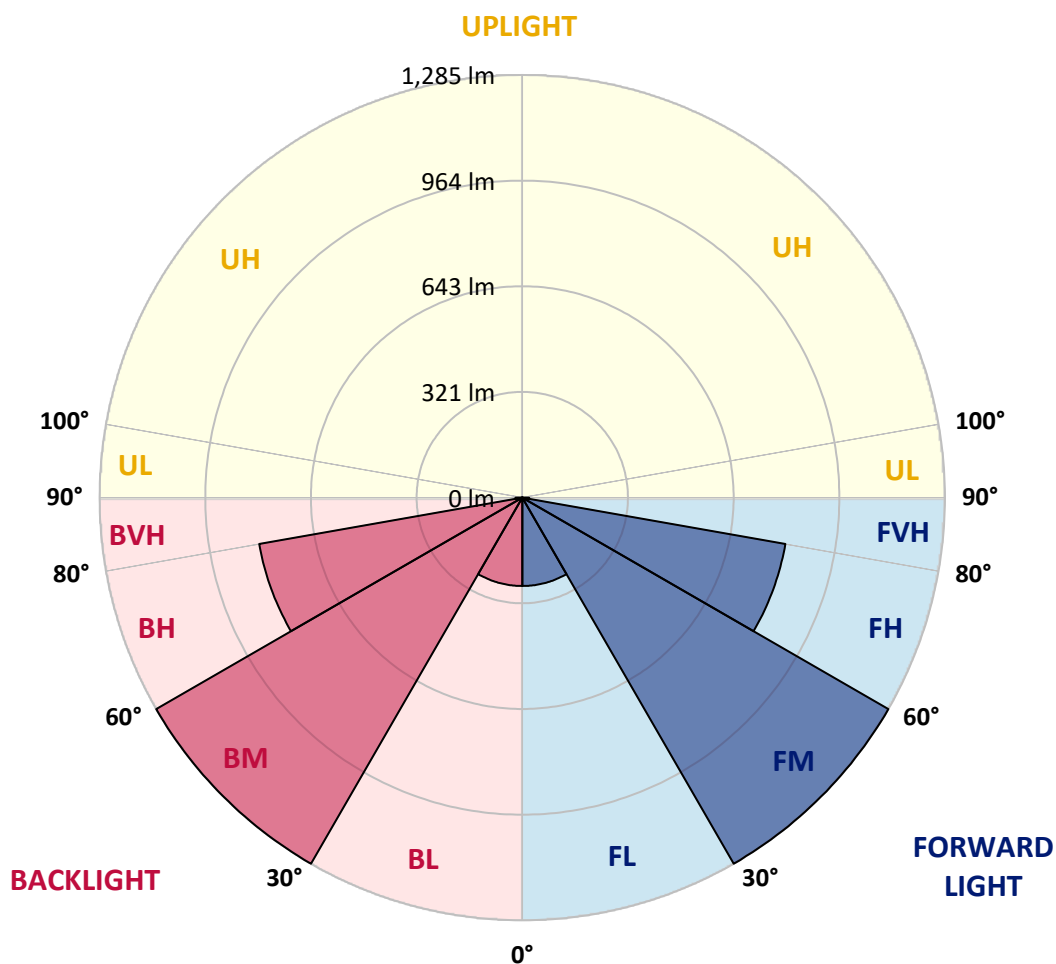
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.6	5.6			
FM (30°-60°)	1285.4	26.9			
FH (60°-80°)	812.3	17.0			G1/1800
FVH (80°-90°)	20.7	0.4			G1/100
BL (0°-30°)	268.6	5.6	B1/500		
BM (30°-60°)	1285.4	26.9	B2/2500		
BH (60°-80°)	812.3	17.0	B2/1000		G2/1000
BVH (80°-90°)	20.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
2.5°	497.5	498.0	498.5	499.3	500.3	501.8	502.8	503.6	505.7	505.9	505.7
5°	495.7	496.2	497.5	499.8	503.1	507.7	511.3	515.6	519.0	521.3	520.8
7.5°	495.4	496.5	498.5	503.4	509.8	517.7	525.9	533.3	539.7	544.8	544.0
10°	499.5	500.8	504.1	511.3	521.3	532.8	544.3	555.3	564.5	571.1	573.4
12.5°	506.4	507.5	513.6	524.3	538.7	553.0	566.0	579.6	592.4	603.6	603.6
15°	518.4	520.2	527.9	543.5	561.2	577.8	591.1	605.4	619.2	632.0	635.8
17.5°	535.1	537.6	549.1	569.1	591.6	606.9	619.5	631.2	643.3	655.5	657.3
20°	557.8	560.4	575.7	599.8	626.4	644.8	653.2	656.1	661.9	673.7	675.2
22.5°	588.8	591.3	608.5	635.6	665.3	685.2	688.8	682.1	680.6	689.8	690.8
25°	623.8	626.1	645.8	675.0	705.7	727.4	726.4	710.0	700.8	706.4	708.0
27.5°	663.2	666.5	686.5	716.7	749.9	769.1	766.0	742.3	722.6	721.5	722.0
30°	713.6	717.2	736.1	765.0	797.8	815.4	809.0	777.0	746.6	736.4	736.4
32.5°	766.8	775.8	794.9	825.1	850.7	863.5	853.8	815.4	775.0	760.7	759.9
35°	836.1	841.0	859.9	889.3	908.5	918.5	899.8	858.6	812.1	795.2	792.9
37.5°	903.9	908.0	930.0	958.1	981.4	980.9	955.6	910.0	858.1	839.2	837.7
40°	973.2	977.6	1002.6	1028.5	1051.7	1049.7	1019.0	968.1	912.9	891.6	895.7
42.5°	1033.3	1038.2	1066.6	1103.4	1124.4	1123.9	1088.3	1031.0	973.5	954.5	958.1
45°	1088.1	1092.4	1125.4	1167.6	1198.3	1202.1	1163.3	1102.6	1043.6	1019.3	1020.3
47.5°	1126.7	1134.9	1169.4	1217.7	1259.4	1273.0	1234.9	1175.5	1107.5	1082.2	1083.7
50°	1156.1	1161.2	1198.8	1253.8	1306.5	1334.6	1303.9	1243.1	1171.4	1144.6	1148.2
52.5°	1159.7	1165.8	1206.7	1270.2	1337.7	1380.4	1365.3	1309.0	1236.7	1209.0	1216.7
55°	1130.5	1134.1	1182.9	1259.9	1350.0	1414.4	1418.3	1370.4	1298.8	1277.8	1283.0
57.5°	1047.4	1056.6	1118.5	1212.1	1333.1	1432.6	1457.9	1426.2	1361.7	1341.0	1349.2
60°	911.1	920.3	982.4	1101.1	1269.4	1424.1	1490.6	1475.5	1418.8	1402.1	1406.5
62.5°	713.9	713.1	790.1	935.6	1142.8	1382.7	1514.9	1523.1	1475.0	1454.1	1460.7
65°	462.7	465.0	539.4	696.2	951.7	1277.3	1520.3	1583.7	1530.3	1498.6	1503.4
66°	372.1	379.1	442.2	586.7	854.3	1208.3	1504.2	1601.6	1547.2	1508.8	1511.1
67.5°	274.7	273.4	325.3	436.9	682.1	1077.1	1453.8	1612.9	1566.3	1518.0	1519.0
70°	156.8	156.5	174.9	239.9	401.1	758.4	1225.4	1558.9	1605.2	1551.3	1548.4
72.5°	114.6	113.8	116.4	132.5	195.7	382.9	845.3	1362.5	1585.3	1545.9	1538.0
75°	96.2	95.7	95.1	97.2	109.7	173.4	448.6	980.1	1375.5	1451.0	1442.8
77.5°	78.5	78.5	78.8	78.3	78.8	91.3	185.9	525.4	837.7	935.1	957.9
80°	61.4	61.1	65.5	63.7	59.6	58.6	82.4	169.1	278.0	276.5	228.1
82.5°	45.3	42.2	49.9	48.6	44.0	37.3	48.1	72.1	92.8	60.4	44.8
85°	28.6	28.4	35.3	32.2	26.9	17.6	23.0	30.9	38.4	23.3	18.9
87.5°	5.1	4.9	11.3	8.2	8.2	5.1	6.4	8.4	12.5	8.7	6.4
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)