

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: P450601

Luminaire Tested: **GALN-SA1B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450601
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-SA1B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4720 lumens
Efficiency: N/A
Efficacy: 107.3 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): 44
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

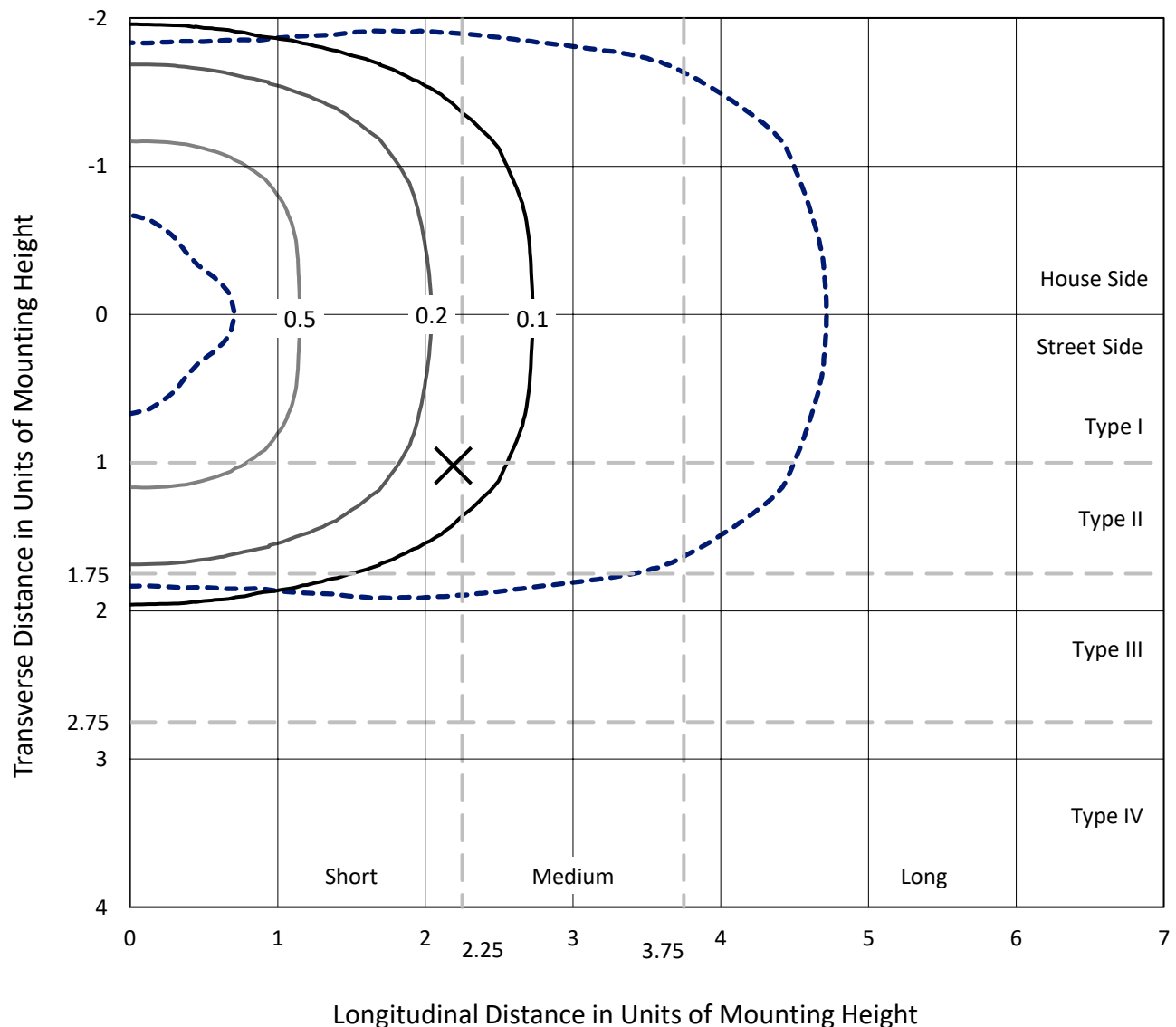


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

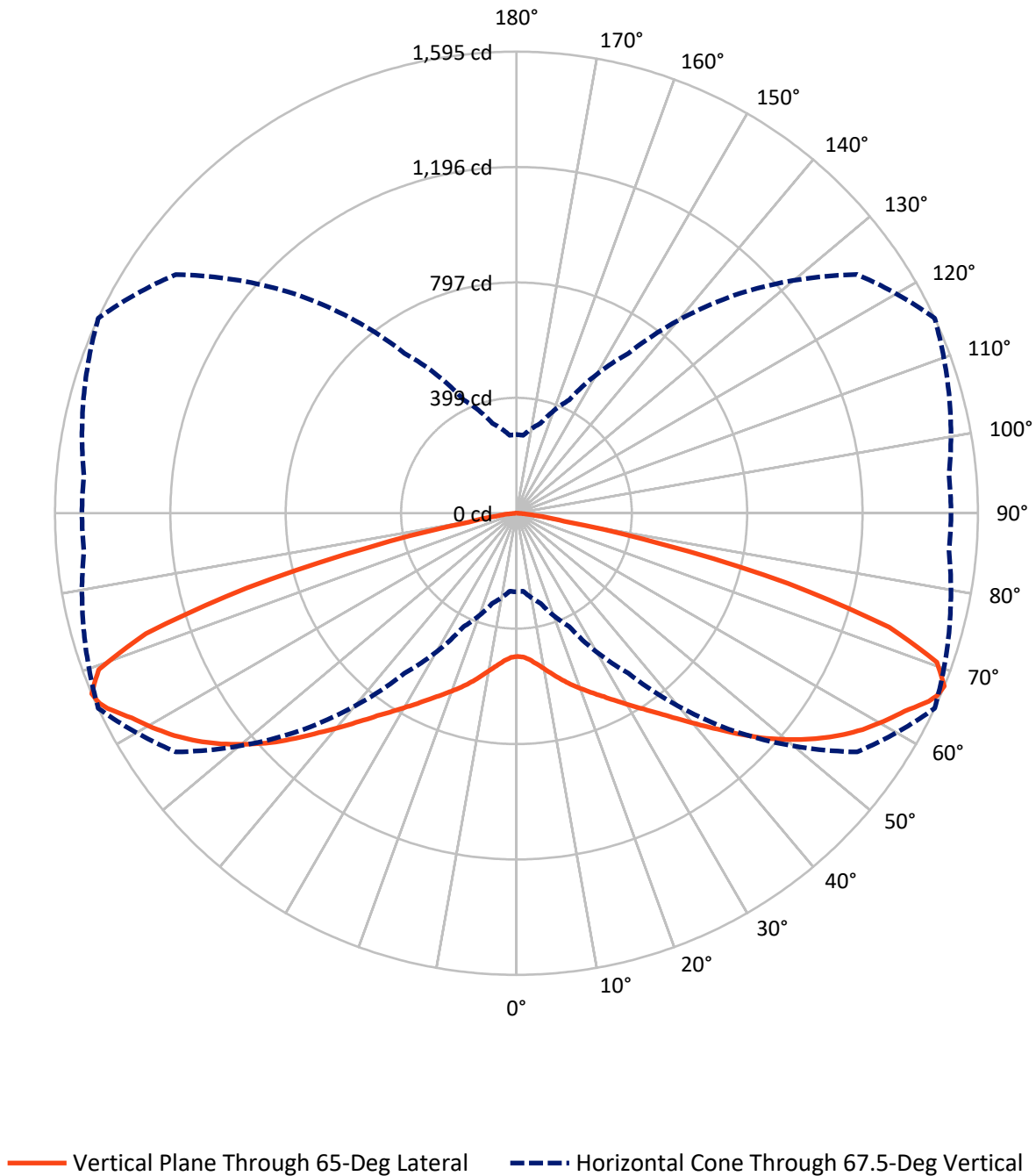


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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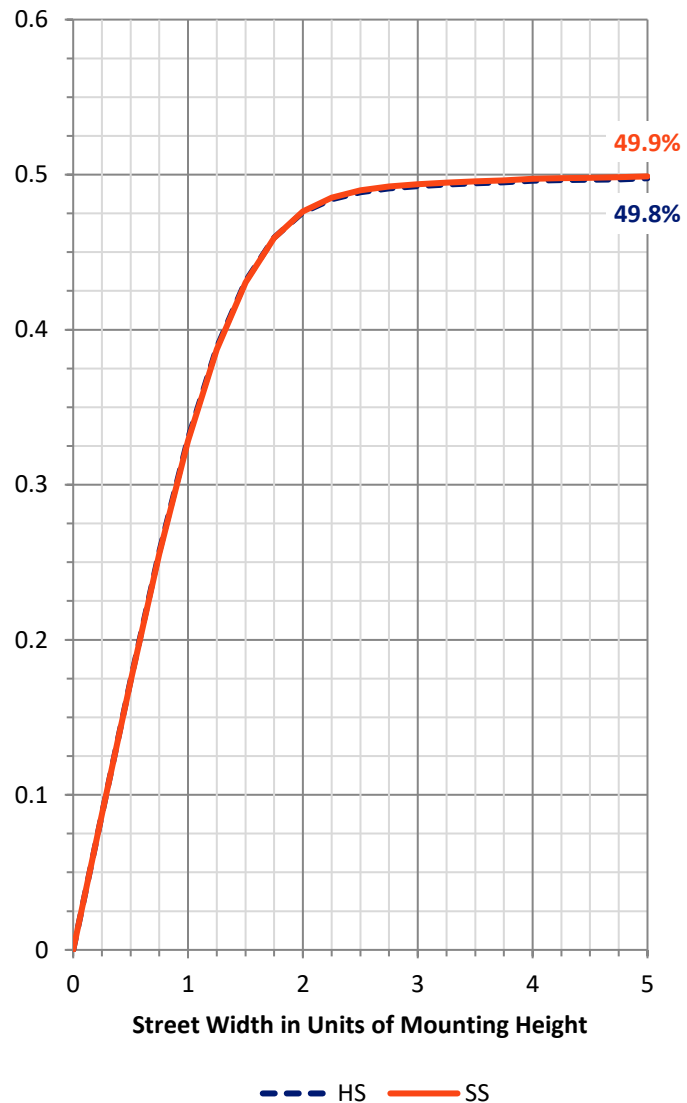
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2360.0	0.0	2360.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2360.0	0.0	2360.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4720.0	0.0	4720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	1.0
10°-20°	163.2	3.5
20°-30°	319.2	6.8
30°-40°	542.9	11.5
40°-50°	859.3	18.2
50°-60°	1139.4	24.1
60°-70°	1074.8	22.8
70°-80°	531.4	11.3
80°-90°	40.9	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°	4720.0	100.0
0°-180°	4720.0	100.0

Coefficient of Utilization



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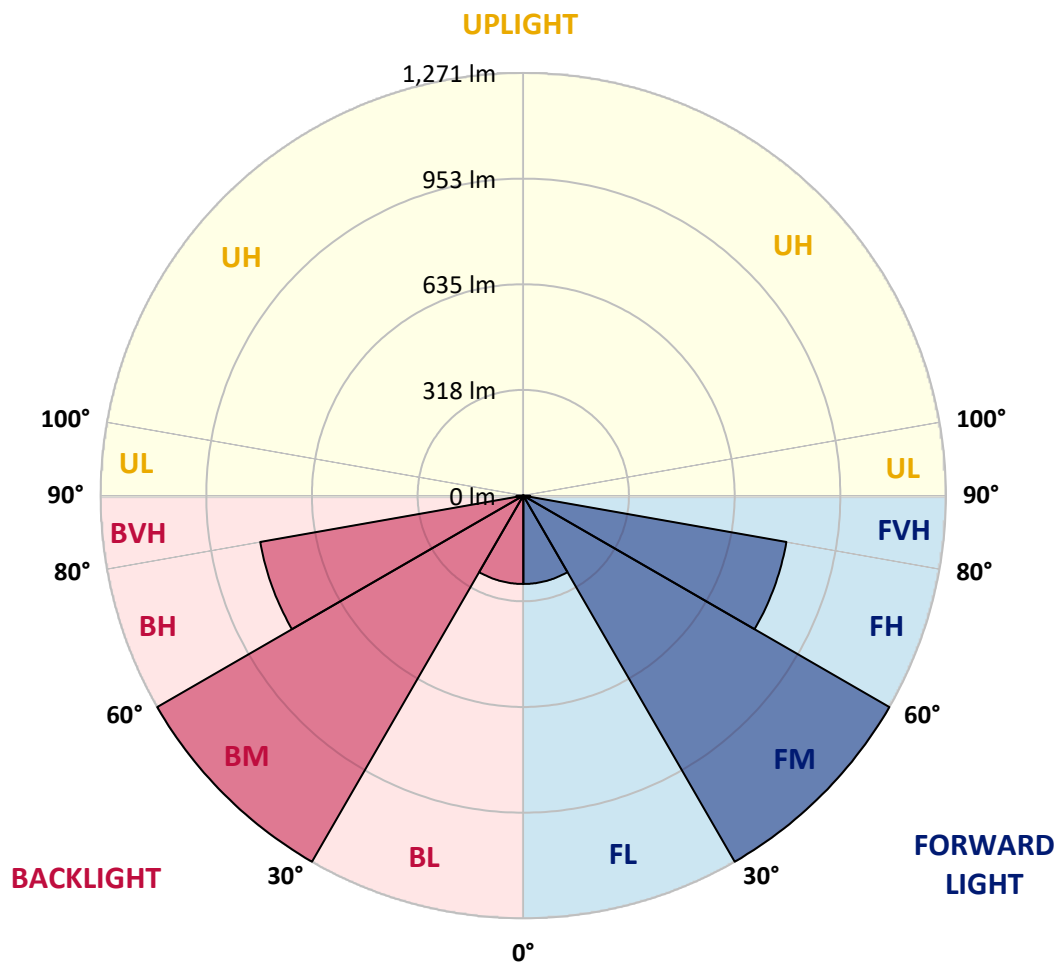
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.6	5.6			
FM	(30°-60°)	1270.8	26.9			
FH	(60°-80°)	803.1	17.0			G1/1800
FVH	(80°-90°)	20.5	0.4			G1/100
BL	(0°-30°)	265.6	5.6	B1/500		
BM	(30°-60°)	1270.8	26.9	B2/2500		
BH	(60°-80°)	803.1	17.0	B2/1000		G2/1000
BVH	(80°-90°)	20.5	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°	494.4	494.4	494.4	494.4	494.4	494.4	494.4	494.4	494.4	494.4	494.4
2.5°	491.8	492.4	492.9	493.6	494.6	496.1	497.2	497.9	499.9	500.2	499.9
5°	490.1	490.6	491.8	494.1	497.4	502.0	505.5	509.8	513.1	515.4	514.9
7.5°	489.8	490.8	492.9	497.7	504.0	511.8	519.9	527.3	533.6	538.6	537.9
10°	493.9	495.1	498.4	505.5	515.4	526.7	538.1	549.0	558.1	564.7	567.0
12.5°	500.7	501.7	507.8	518.4	532.6	546.7	559.6	573.0	585.7	596.8	596.8
15°	512.6	514.4	521.9	537.4	554.8	571.3	584.4	598.6	612.2	624.9	628.7
17.5°	529.0	531.6	542.9	562.7	584.9	600.1	612.5	624.1	636.0	648.1	649.9
20°	551.5	554.1	569.2	593.0	619.3	637.5	645.9	648.6	654.5	666.1	667.6
22.5°	582.1	584.7	601.6	628.4	657.7	677.5	681.0	674.4	672.9	682.0	683.0
25°	616.8	619.0	638.5	667.3	697.7	719.2	718.2	702.0	692.9	698.5	700.0
27.5°	655.7	659.0	678.7	708.6	741.4	760.4	757.4	733.9	714.4	713.4	713.9
30°	705.5	709.1	727.8	756.4	788.7	806.2	799.9	768.2	738.2	728.0	728.0
32.5°	758.1	767.0	785.9	815.8	841.1	853.7	844.1	806.2	766.2	752.1	751.3
35°	826.7	831.5	850.2	879.3	898.2	908.1	889.6	848.9	802.9	786.2	783.9
37.5°	893.7	897.7	919.5	947.3	970.3	969.8	944.8	899.7	848.4	829.7	828.2
40°	962.2	966.5	991.3	1016.8	1039.8	1037.8	1007.5	957.1	902.5	881.5	885.6
42.5°	1021.6	1026.4	1054.5	1090.9	1111.7	1111.2	1076.0	1019.4	962.5	943.7	947.3
45°	1075.7	1080.0	1112.7	1154.4	1184.7	1188.5	1150.1	1090.2	1031.7	1007.7	1008.7
47.5°	1113.9	1122.0	1156.2	1204.0	1245.2	1258.6	1220.9	1162.2	1095.0	1069.9	1071.4
50°	1143.0	1148.1	1185.2	1239.6	1291.7	1319.5	1289.2	1229.0	1158.2	1131.6	1135.2
52.5°	1146.6	1152.6	1193.1	1255.8	1322.6	1364.8	1349.9	1294.2	1222.7	1195.4	1202.9
55°	1117.7	1121.3	1169.6	1245.7	1334.7	1398.4	1402.2	1354.9	1284.1	1263.4	1268.4
57.5°	1035.5	1044.6	1105.8	1198.4	1318.0	1416.4	1441.4	1410.1	1346.3	1325.8	1333.9
60°	900.8	909.9	971.3	1088.6	1255.0	1408.0	1473.8	1458.9	1402.7	1386.3	1390.6
62.5°	705.8	705.0	781.1	925.0	1129.9	1367.1	1497.8	1505.9	1458.4	1437.6	1444.2
65°	457.5	459.7	533.3	688.3	941.0	1262.9	1503.1	1565.8	1513.0	1481.6	1486.4
66°	367.9	374.8	437.2	580.1	844.6	1194.6	1487.2	1583.5	1529.7	1491.7	1494.0
67.5°	271.6	270.3	321.7	431.9	674.4	1064.9	1437.4	1594.7	1548.6	1500.8	1501.8
70°	155.0	154.8	173.0	237.2	396.5	749.8	1211.5	1541.3	1587.1	1533.7	1530.9
72.5°	113.3	112.5	115.1	131.0	193.5	378.6	835.8	1347.1	1567.3	1528.4	1520.6
75°	95.1	94.6	94.1	96.1	108.5	171.5	443.5	969.0	1360.0	1434.6	1426.5
77.5°	77.6	77.6	77.9	77.4	77.9	90.3	183.8	519.4	828.2	924.5	947.0
80°	60.7	60.4	64.7	63.0	58.9	57.9	81.4	167.2	274.9	273.4	225.6
82.5°	44.8	41.7	49.3	48.0	43.5	36.9	47.5	71.3	91.8	59.7	44.3
85°	28.3	28.1	34.9	31.9	26.6	17.4	22.8	30.6	37.9	23.0	18.7
87.5°	5.1	4.8	11.1	8.1	8.1	5.1	6.3	8.3	12.4	8.6	6.3
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)