

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: P458355

Luminaire Tested: **GALN-SA9D-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458355
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-SA9D-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63756 lumens
Efficiency: N/A
Efficacy: 115.5 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

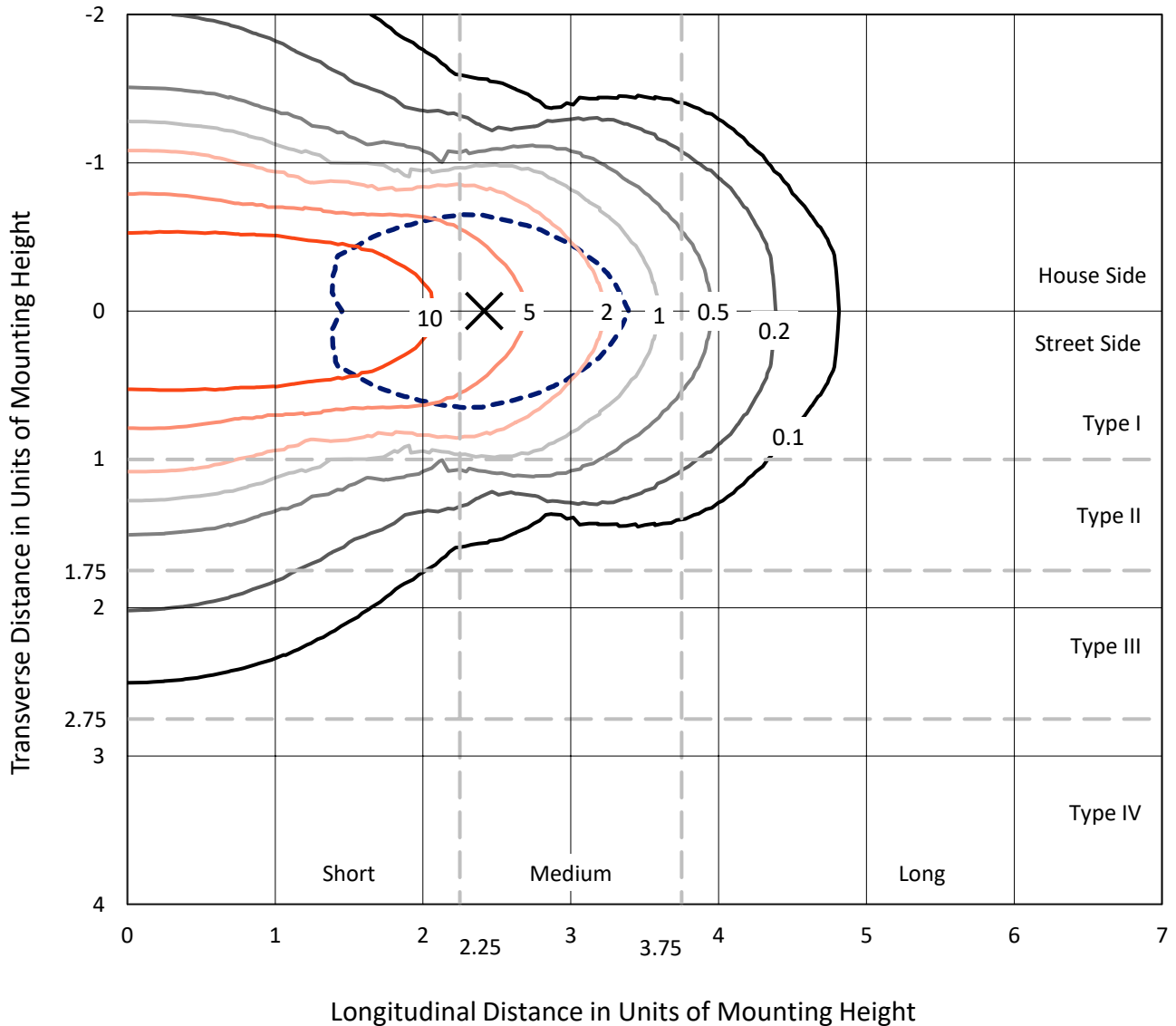
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

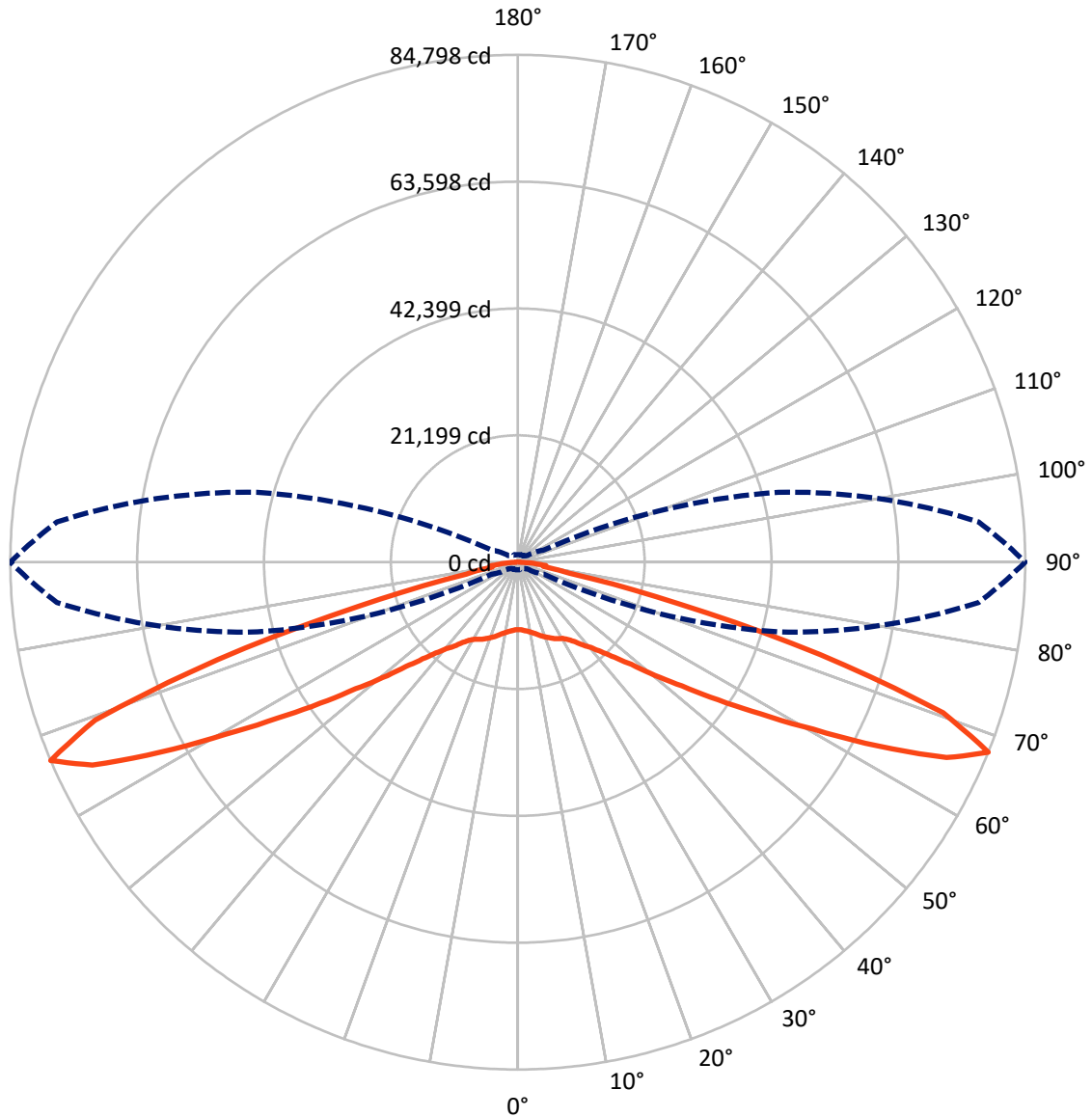
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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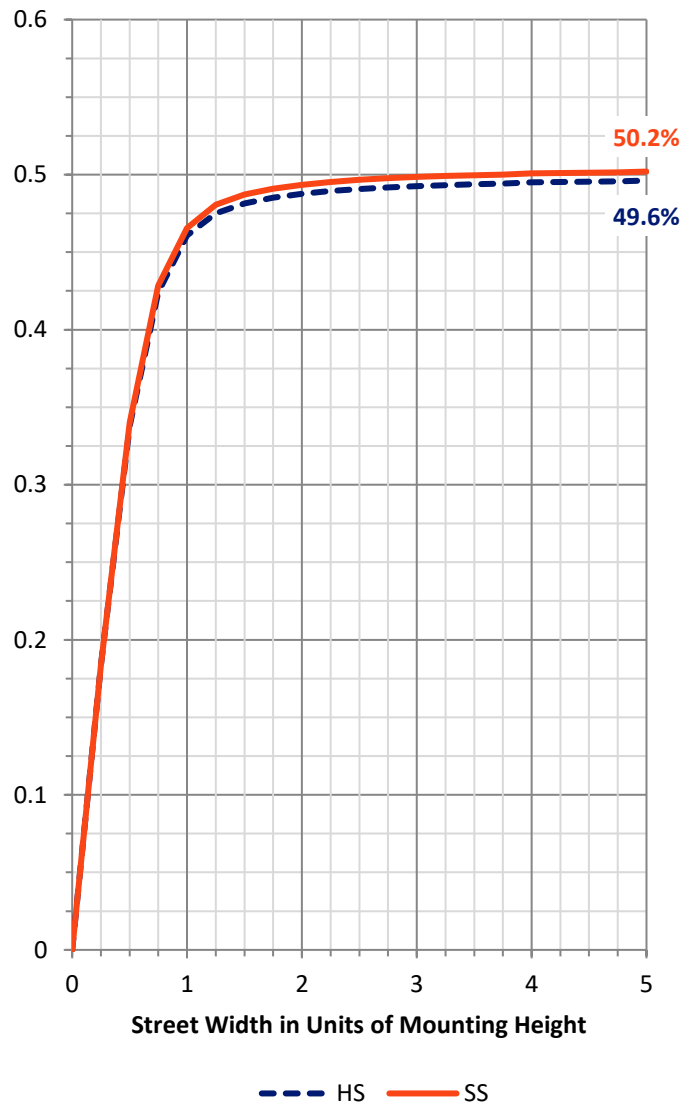
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31878.0	0.0	31878.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31878.0	0.0	31878.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	63756.0	0.0	63756.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1125.3	1.8
10°-20°	3600.3	5.6
20°-30°	6026.0	9.5
30°-40°	8163.7	12.8
40°-50°	10340.7	16.2
50°-60°	12918.1	20.3
60°-70°	15184.6	23.8
70°-80°	5808.8	9.1
80°-90°	588.5	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°	63756.0	100.0
0°-180°	63756.0	100.0



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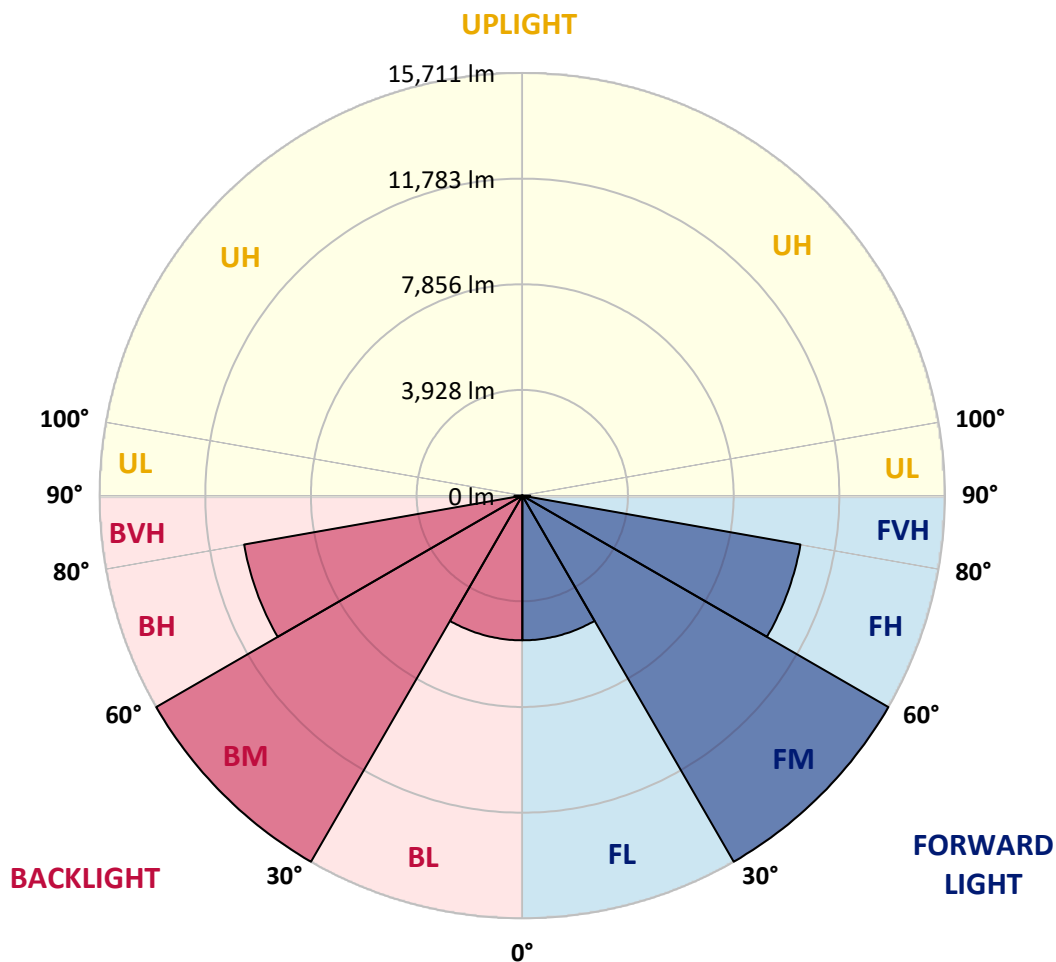
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5375.8	8.4			
FM	(30°-60°)	15711.2	24.6			
FH	(60°-80°)	10496.7	16.5			G4/12000
FVH	(80°-90°)	294.2	0.5			G3/500
BL	(0°-30°)	5375.8	8.4	B5		
BM	(30°-60°)	15711.2	24.6	B5		
BH	(60°-80°)	10496.7	16.5	B5		G5
BVH	(80°-90°)	294.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11286.8	11286.8	11286.8	11286.8	11286.8	11286.8	11286.8	11286.8	11286.8	11286.8	11286.8
2.5°	11431.5	11424.5	11428.0	11424.5	11435.1	11428.0	11385.6	11350.3	11322.1	11325.6	11315.0
5°	11675.1	11678.7	11682.2	11664.6	11689.3	11675.1	11608.1	11551.6	11495.1	11473.9	11466.8
7.5°	11876.4	11894.0	11904.6	11922.3	11964.6	11964.6	11929.3	11848.1	11724.6	11654.0	11650.4
10°	12077.6	12091.7	12123.5	12180.0	12250.6	12317.7	12303.6	12194.1	12035.2	11915.2	11887.0
12.5°	12148.2	12165.9	12271.8	12434.2	12593.1	12723.7	12723.7	12635.4	12430.7	12247.1	12194.1
15°	11901.1	11932.9	12123.5	12469.5	12886.1	13172.0	13235.6	13112.0	12893.1	12610.7	12547.2
17.5°	11410.4	11488.0	11766.9	12278.8	12970.8	13563.9	13747.5	13687.5	13405.1	13045.0	12970.8
20°	10884.3	10969.1	11265.6	11943.5	12900.2	13793.4	14326.5	14340.6	13991.1	13468.6	13359.2
22.5°	10305.3	10368.9	10750.2	11544.5	12688.4	13846.4	14824.3	15067.9	14594.8	13892.3	13736.9
25°	9655.7	9726.3	10125.3	10983.2	12289.4	13786.3	15279.7	15816.3	15226.8	14344.2	14146.4
27.5°	9034.4	9062.6	9489.8	10361.8	11763.4	13631.0	15615.1	16504.8	15925.8	14718.4	14467.7
30°	8437.7	8504.8	8882.6	9744.0	11159.7	13327.4	15904.6	17288.5	16677.8	15110.3	14789.0
32.5°	7805.8	7887.0	8296.5	9168.5	10556.0	12872.0	16081.1	18146.4	17726.3	15745.7	15403.3
35°	7198.6	7251.5	7664.6	8511.9	9966.4	12342.4	16112.9	19113.8	19078.5	16709.5	16254.1
37.5°	6577.2	6654.9	7071.5	7883.5	9341.5	11781.1	15954.0	20141.1	20709.5	18047.6	17556.8
40°	5980.6	6047.6	6457.2	7276.2	8631.9	11096.2	15576.3	21080.2	22612.4	19424.4	18729.0
42.5°	5331.0	5348.6	5797.0	6630.2	7936.4	10301.8	15032.6	21916.9	24734.2	21270.9	20405.9
45°	4593.1	4639.0	5055.6	5874.6	7138.5	9412.1	14294.7	22608.9	27424.4	23830.4	22651.3
47.5°	3855.2	3894.1	4275.4	5083.8	6266.5	8391.8	13157.9	23216.1	30185.2	27082.0	25535.6
50°	3135.0	3156.2	3466.9	4183.6	5285.1	7318.6	11749.3	23410.3	33306.1	31685.6	29712.1
52.5°	2478.4	2510.1	2746.7	3308.0	4236.5	6051.2	10227.7	22930.2	36949.5	37143.7	34361.7
55°	2008.8	2019.4	2195.9	2609.0	3311.5	4723.7	8391.8	21592.1	40868.3	44137.5	40589.4
57.5°	1729.9	1737.0	1835.8	2065.3	2549.0	3562.2	6510.1	19060.8	44388.1	52331.6	47770.3
60°	1571.0	1574.6	1631.1	1765.2	2019.4	2732.6	4663.7	15488.0	47862.1	61450.7	56695.2
62.5°	1472.2	1472.2	1511.0	1585.2	1708.7	2097.1	3378.6	11173.8	50241.6	70704.0	67696.1
65°	1376.9	1376.9	1405.1	1458.1	1525.1	1715.8	2496.0	7286.8	50181.6	77443.6	78760.4
67.5°	1267.4	1267.4	1288.6	1341.6	1380.4	1475.7	1927.6	4773.1	45076.6	77295.3	84797.5
70°	1136.8	1136.8	1165.0	1210.9	1242.7	1302.7	1521.6	3265.7	33115.5	65997.9	75413.6
72.5°	1006.2	1009.7	1027.4	1073.3	1098.0	1133.3	1263.9	2287.7	20314.1	44938.9	52730.6
75°	861.4	868.5	886.1	932.0	953.2	967.3	1066.2	1631.1	10277.1	24229.4	27586.8
77.5°	695.5	709.6	720.2	769.6	783.8	804.9	879.1	1179.2	4511.9	8706.0	8783.7
80°	508.4	526.0	557.8	603.7	614.3	628.4	670.8	836.7	2044.1	3975.3	4317.7
82.5°	374.2	398.9	360.1	420.1	420.1	402.5	473.1	561.3	939.1	3936.4	4709.6
85°	204.8	208.3	187.1	215.4	229.5	225.9	250.7	275.4	455.4	2626.6	2707.8
87.5°	49.4	53.0	56.5	67.1	81.2	81.2	88.3	77.7	148.3	850.8	487.2
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)