

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: P651302

Luminaire Tested: **GALN-SA3D-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651302
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-SA3D-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19387.6 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

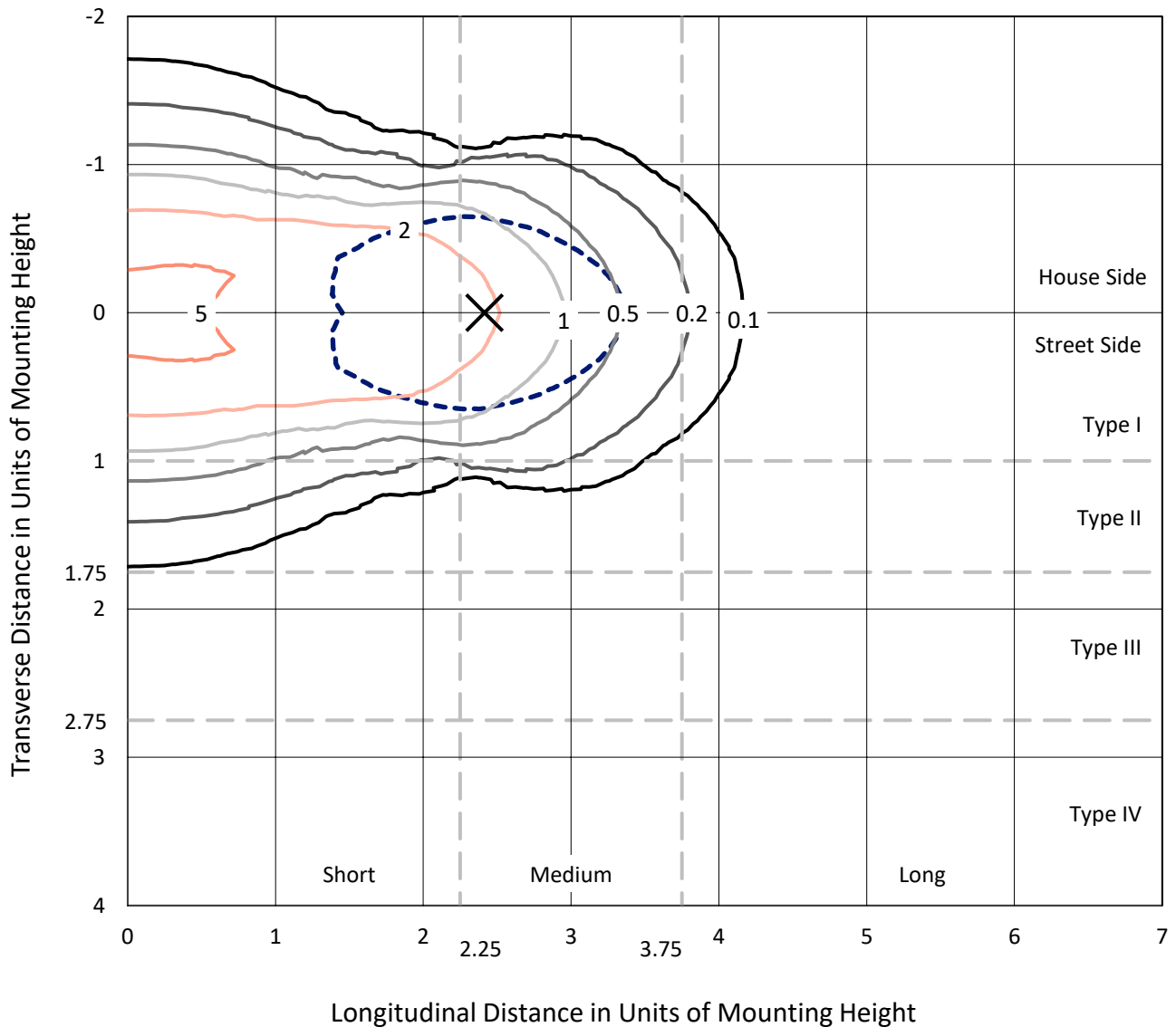
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

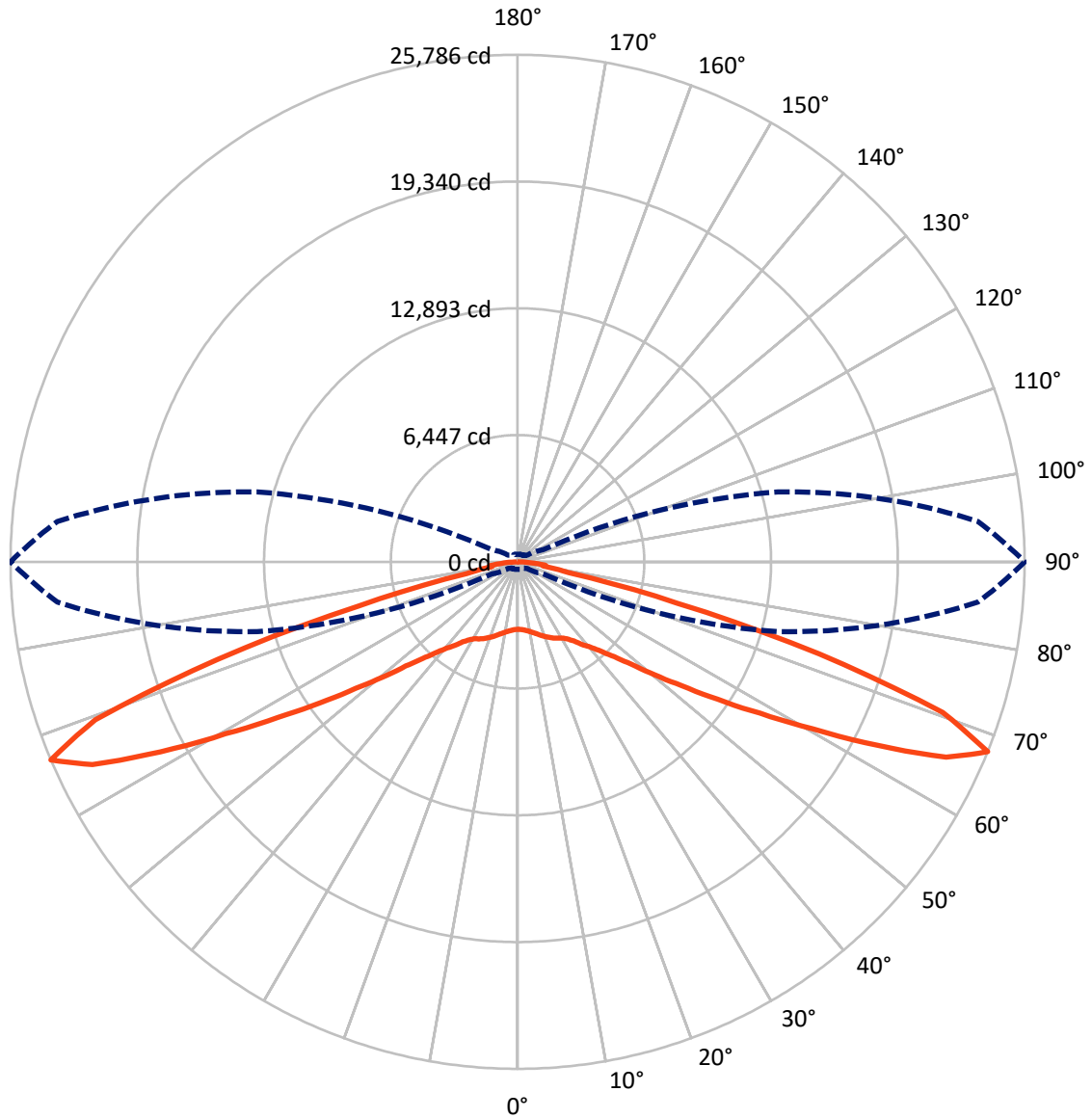
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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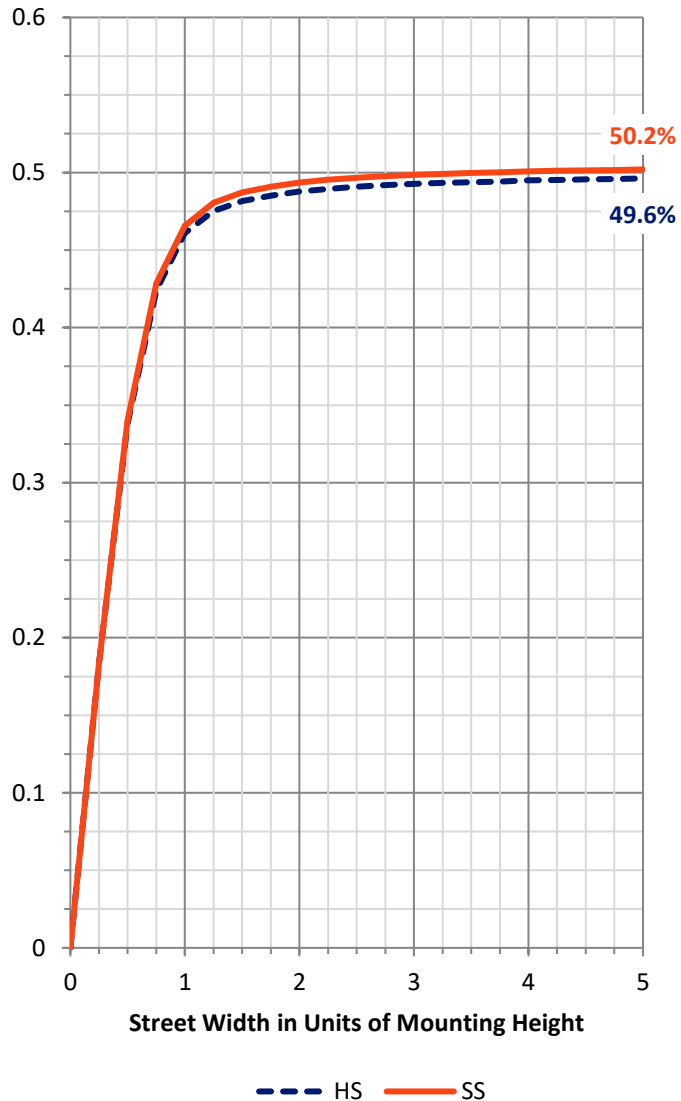
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9693.8	0.0	9693.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9693.8	0.0	9693.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	19387.6	0.0	19387.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	1.8
10°-20°	1094.8	5.6
20°-30°	1832.5	9.5
30°-40°	2482.5	12.8
40°-50°	3144.5	16.2
50°-60°	3928.3	20.3
60°-70°	4617.5	23.8
70°-80°	1766.4	9.1
80°-90°	179.0	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°	19387.6	100.0
0°-180°	19387.6	100.0

Coefficient of Utilization

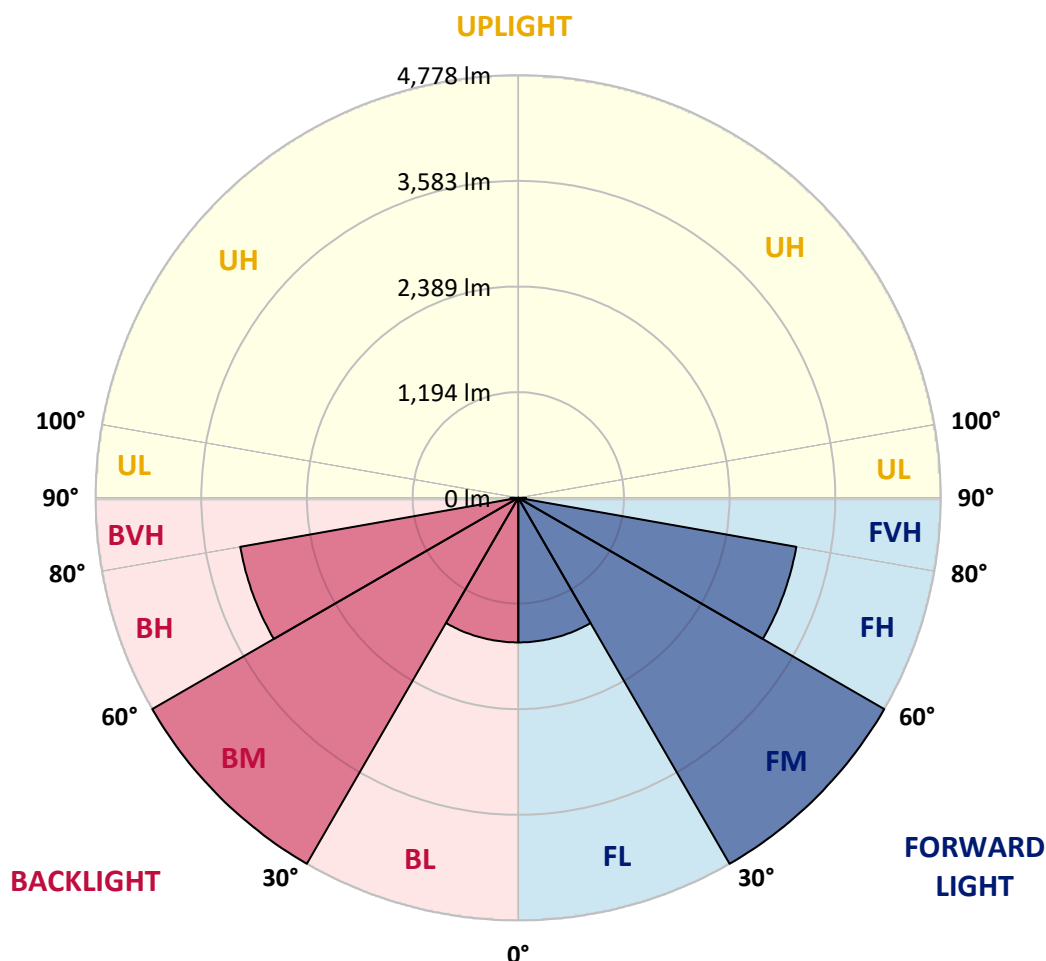


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.7	8.4			
FM (30°-60°)	4777.6	24.6			
FH (60°-80°)	3192.0	16.5			G2/5000
FVH (80°-90°)	89.5	0.5			G1/100
BL (0°-30°)	1634.7	8.4	B3/2500		
BM (30°-60°)	4777.6	24.6	B3/5000		
BH (60°-80°)	3192.0	16.5	B4/5000		G4/5000
BVH (80°-90°)	89.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3432.2	3432.2	3432.2	3432.2	3432.2	3432.2	3432.2	3432.2	3432.2	3432.2	3432.2
2.5°	3476.2	3474.1	3475.2	3474.1	3477.3	3475.2	3462.2	3451.5	3443.0	3444.0	3440.8
5°	3550.3	3551.4	3552.5	3547.1	3554.6	3550.3	3529.9	3512.7	3495.5	3489.1	3487.0
7.5°	3611.5	3616.9	3620.1	3625.5	3638.3	3638.3	3627.6	3602.9	3565.3	3543.9	3542.8
10°	3672.6	3676.9	3686.6	3703.8	3725.3	3745.6	3741.4	3708.1	3659.8	3623.3	3614.7
12.5°	3694.2	3699.6	3731.8	3781.1	3829.4	3869.2	3869.2	3842.3	3780.0	3724.2	3708.1
15°	3619.0	3628.7	3686.6	3791.8	3918.6	4005.5	4024.8	3987.3	3920.7	3834.8	3815.4
17.5°	3469.8	3493.4	3578.2	3733.9	3944.3	4124.7	4180.4	4162.2	4076.3	3966.8	3944.3
20°	3309.8	3335.6	3425.7	3631.9	3922.8	4194.4	4356.5	4360.8	4254.5	4095.7	4062.4
22.5°	3133.7	3153.1	3269.1	3510.6	3858.4	4210.6	4507.9	4582.0	4438.1	4224.5	4177.2
25°	2936.2	2957.7	3079.0	3339.9	3737.1	4192.3	4646.4	4809.6	4630.3	4361.9	4301.8
27.5°	2747.3	2755.9	2885.7	3150.9	3577.1	4145.0	4748.4	5018.9	4842.9	4475.7	4399.5
30°	2565.8	2586.2	2701.1	2963.1	3393.5	4052.7	4836.4	5257.3	5071.6	4594.9	4497.2
32.5°	2373.6	2398.4	2522.9	2788.1	3210.0	3914.3	4890.1	5518.1	5390.4	4788.1	4683.9
35°	2189.0	2205.1	2330.7	2588.3	3030.7	3753.2	4899.8	5812.3	5801.6	5081.2	4942.7
37.5°	2000.1	2023.7	2150.4	2397.3	2840.6	3582.5	4851.5	6124.8	6297.6	5488.1	5338.8
40°	1818.7	1839.0	1963.6	2212.6	2624.8	3374.3	4736.6	6410.3	6876.2	5906.8	5695.3
42.5°	1621.1	1626.5	1762.8	2016.1	2413.4	3132.6	4571.3	6664.8	7521.4	6468.3	6205.2
45°	1396.7	1410.7	1537.3	1786.5	2170.8	2862.2	4346.9	6875.2	8339.5	7246.6	6888.0
47.5°	1172.4	1184.1	1300.1	1545.9	1905.6	2551.8	4001.2	7059.8	9179.0	8235.3	7765.1
50°	953.4	959.7	1054.3	1272.2	1607.2	2225.5	3572.8	7118.8	10128.1	9635.3	9035.2
52.5°	753.6	763.3	835.2	1005.9	1288.2	1840.1	3110.1	6972.8	11236.0	11295.1	10449.1
55°	610.9	614.1	667.8	793.4	1007.0	1436.4	2551.8	6565.9	12427.6	13421.8	12342.9
57.5°	526.0	528.2	558.3	628.1	775.1	1083.2	1979.6	5796.2	13498.0	15913.6	14526.5
60°	477.8	478.8	496.0	536.8	614.1	830.9	1418.2	4709.8	14554.4	18686.6	17240.5
62.5°	447.7	447.7	459.5	482.1	519.6	637.7	1027.4	3397.8	15277.9	21500.4	20585.7
65°	418.7	418.7	427.3	443.4	463.8	521.8	759.0	2215.9	15259.7	23549.9	23950.3
67.5°	385.4	385.4	391.8	408.0	419.7	448.8	586.2	1451.5	13707.4	23504.8	25786.1
70°	345.7	345.7	354.3	368.3	377.9	396.1	462.7	993.1	10070.0	20069.3	22932.6
72.5°	306.0	307.0	312.4	326.4	333.9	344.6	384.3	695.7	6177.3	13665.5	16034.8
75°	262.0	264.1	269.5	283.4	289.9	294.2	324.2	496.0	3125.2	7367.9	8388.9
77.5°	211.5	215.8	219.0	234.1	238.3	244.8	267.4	358.6	1372.0	2647.4	2671.0
80°	154.6	160.0	169.6	183.6	186.8	191.1	203.9	254.4	621.6	1208.9	1313.0
82.5°	113.8	121.3	109.5	127.7	127.7	122.4	143.9	170.7	285.6	1197.0	1432.1
85°	62.2	63.3	56.9	65.5	69.8	68.7	76.2	83.8	138.5	798.7	823.4
87.5°	15.1	16.1	17.2	20.4	24.7	24.7	26.8	23.6	45.1	258.7	148.2
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)