

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: P454686

Luminaire Tested: **GALN-SA5D-750-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40431 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

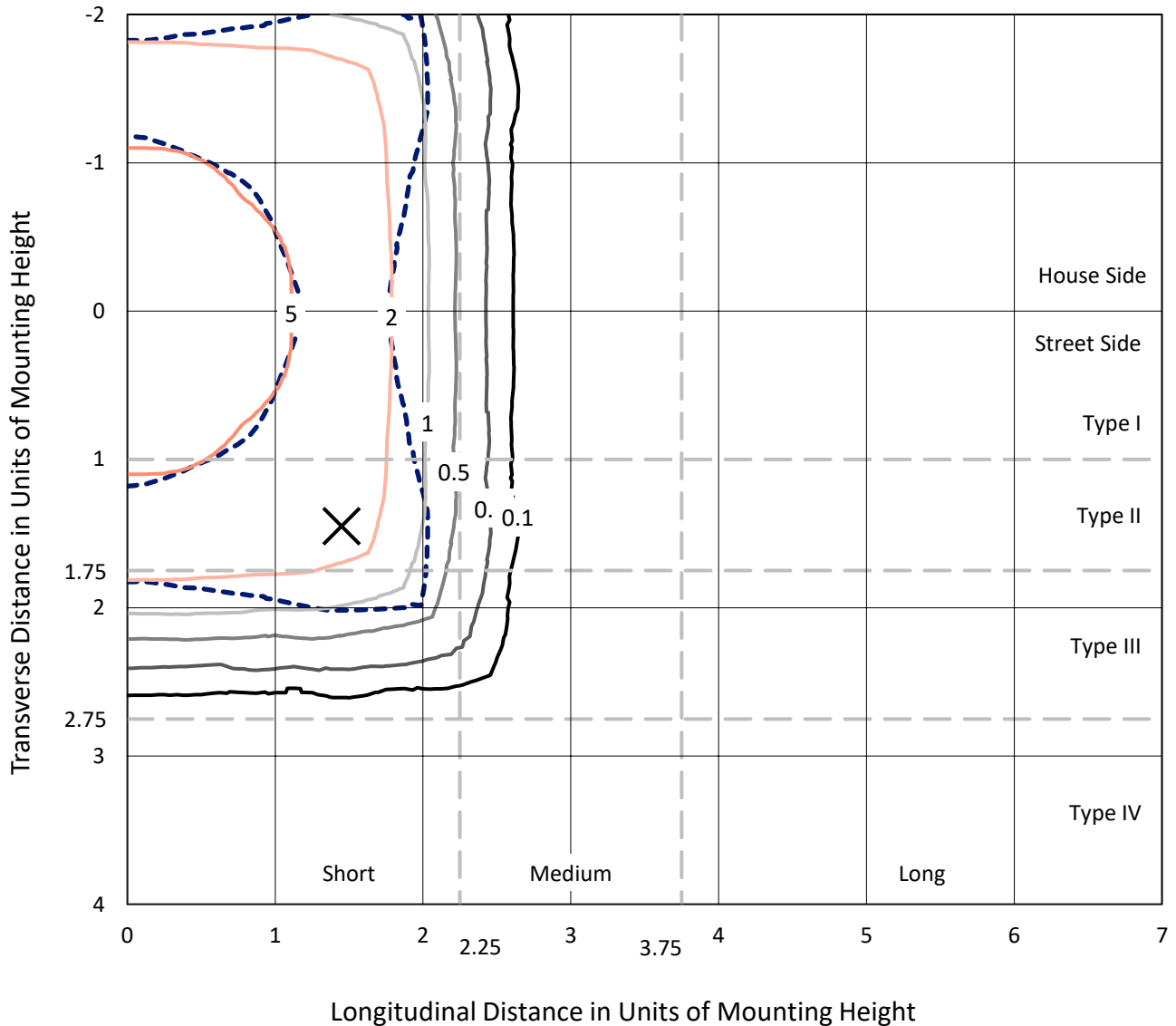
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

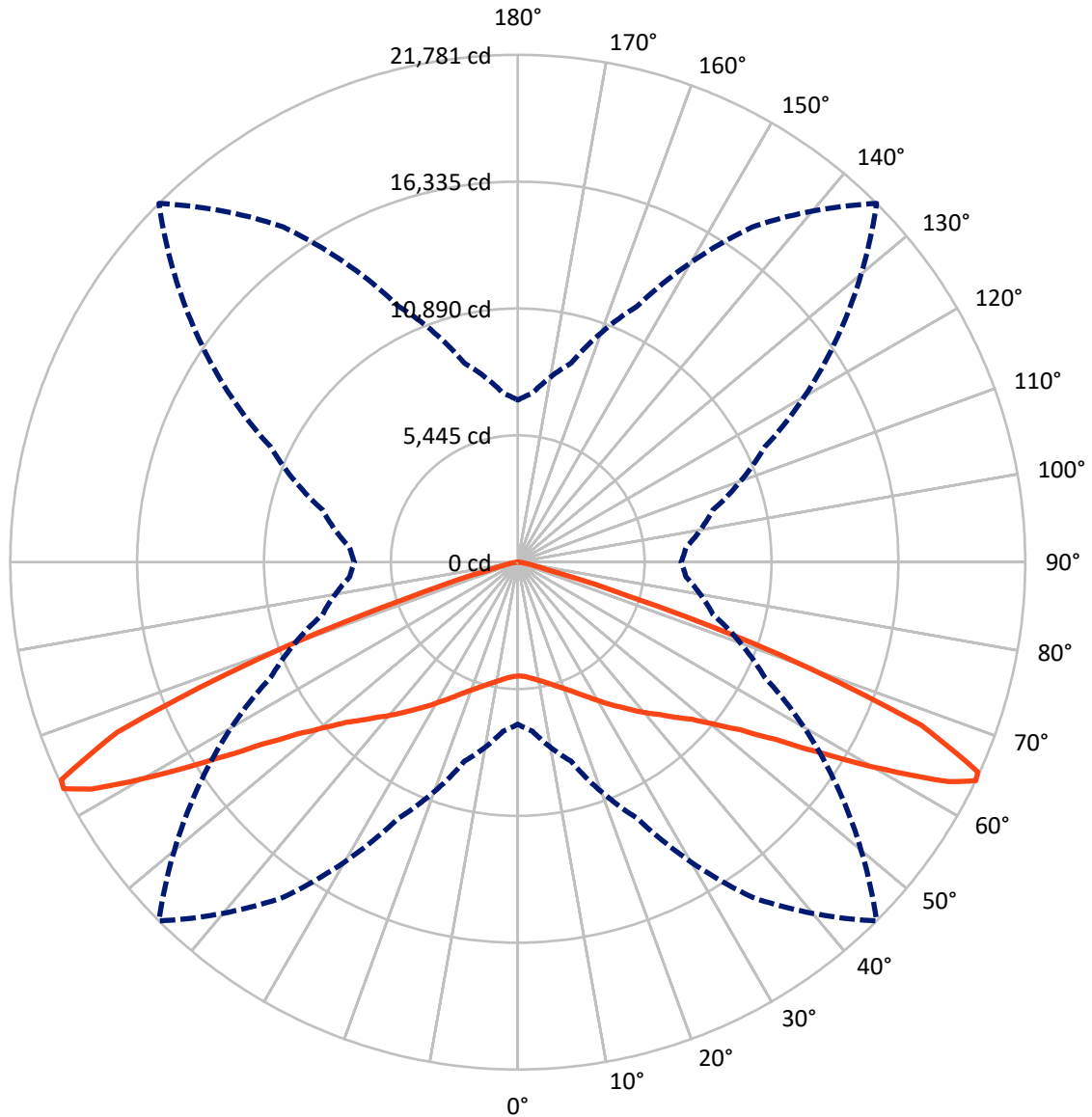
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20215.5	0.0	20215.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20215.5	0.0	20215.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40431.0	0.0	40431.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	1.2
10°-20°	1548.6	3.8
20°-30°	2926.4	7.2
30°-40°	4846.5	12.0
40°-50°	7566.1	18.7
50°-60°	11697.1	28.9
60°-70°	10086.2	24.9
70°-80°	1143.0	2.8
80°-90°	136.9	0.3
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°	40431.0	100.0
0°-180°	40431.0	100.0



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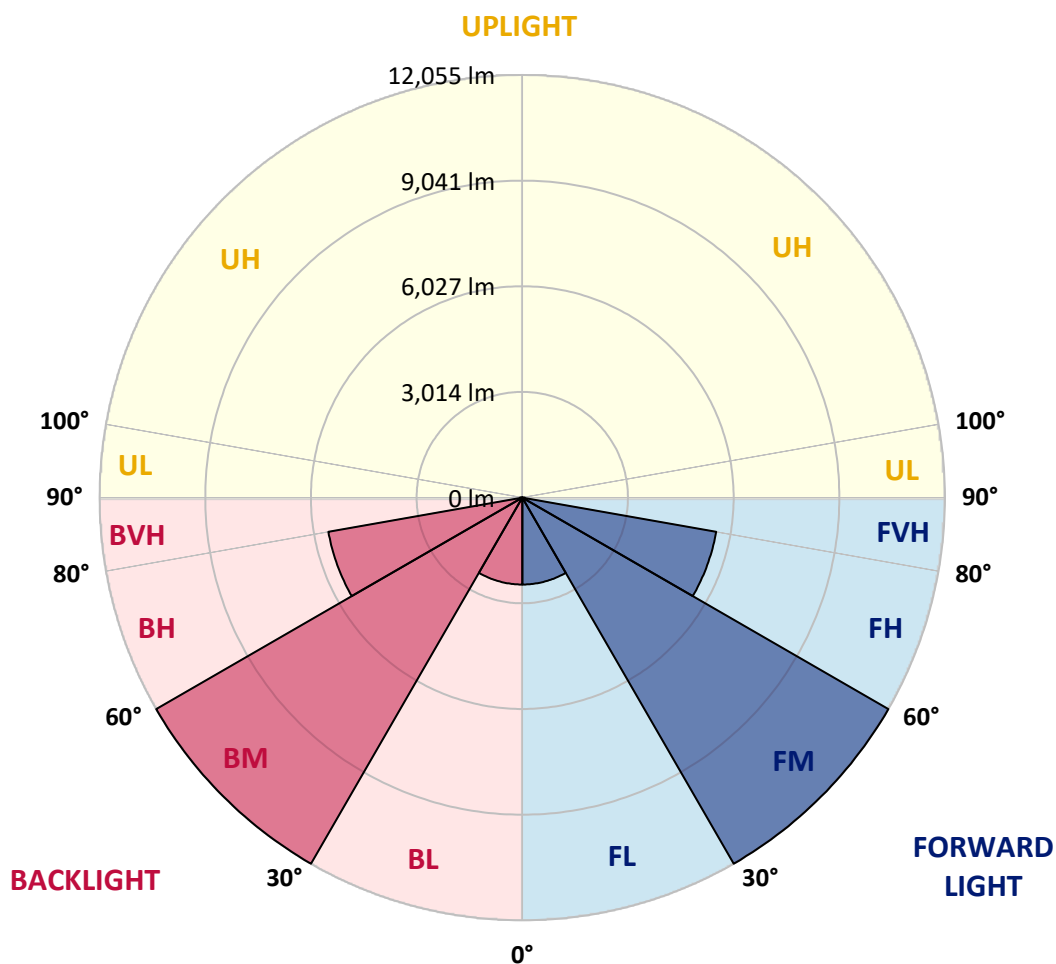
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2477.6	6.1			
FM	(30°-60°)	12054.8	29.8			
FH	(60°-80°)	5614.6	13.9			G3/7500
FVH	(80°-90°)	68.5	0.2			G1/100
BL	(0°-30°)	2477.6	6.1	B3/2500		
BM	(30°-60°)	12054.8	29.8	B5		
BH	(60°-80°)	5614.6	13.9	B5		G3/7500
BVH	(80°-90°)	68.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4886.8	4886.8	4886.8	4886.8	4886.8	4886.8	4886.8	4886.8	4886.8	4886.8	4886.8
2.5°	4906.0	4916.7	4908.2	4906.0	4903.9	4903.9	4903.9	4906.0	4914.6	4921.0	4916.7
5°	4968.1	4976.7	4972.4	4970.3	4968.1	4970.3	4966.0	4963.9	4970.3	4970.3	4968.1
7.5°	5045.2	5055.9	5051.7	5055.9	5058.1	5060.2	5049.5	5040.9	5038.8	5045.2	5040.9
10°	5150.2	5158.7	5160.9	5163.0	5167.3	5165.2	5152.3	5137.3	5135.2	5133.0	5130.9
12.5°	5267.9	5274.4	5276.5	5285.1	5291.5	5293.6	5278.6	5265.8	5244.4	5248.7	5240.1
15°	5400.7	5413.6	5411.4	5424.3	5441.4	5445.7	5430.7	5409.3	5390.0	5379.3	5372.9
17.5°	5563.5	5572.0	5567.7	5580.6	5602.0	5612.7	5599.9	5572.0	5552.8	5529.2	5516.3
20°	5756.2	5771.2	5775.5	5775.5	5794.7	5805.4	5786.2	5777.6	5747.6	5730.5	5719.8
22.5°	5974.6	5981.0	5993.9	6006.7	6026.0	6021.7	6015.3	6002.5	5974.6	5959.6	5942.5
25°	6220.9	6227.3	6259.4	6287.3	6293.7	6289.4	6280.8	6274.4	6248.7	6214.5	6201.6
27.5°	6507.8	6520.7	6563.5	6589.2	6589.2	6591.4	6574.2	6595.6	6540.0	6499.3	6495.0
30°	6867.6	6876.2	6912.6	6938.3	6925.4	6914.7	6910.4	6931.8	6871.9	6799.1	6781.9
32.5°	7223.1	7253.1	7285.2	7340.9	7295.9	7276.6	7272.3	7287.3	7218.8	7137.4	7113.9
35°	7604.3	7625.7	7685.6	7732.7	7692.1	7647.1	7666.4	7713.5	7632.1	7522.9	7518.6
37.5°	8026.1	8045.4	8122.5	8171.7	8141.8	8064.7	8096.8	8152.5	8071.1	7936.2	7908.3
40°	8465.1	8505.8	8602.2	8653.6	8604.3	8501.5	8561.5	8621.4	8548.6	8392.3	8330.2
42.5°	8957.6	9021.9	9161.1	9186.8	9092.6	8953.4	9058.3	9154.7	9103.3	8923.4	8899.8
45°	9533.7	9572.2	9743.6	9799.2	9668.6	9495.1	9625.8	9801.4	9762.8	9555.1	9510.1
47.5°	10178.3	10214.7	10392.4	10475.9	10311.0	10077.6	10313.2	10542.3	10518.8	10296.0	10274.6
50°	10940.6	10949.2	11195.4	11289.7	11124.8	10923.5	11133.3	11418.2	11323.9	11039.1	11034.8
52.5°	11775.8	11786.5	12097.0	12279.0	12186.9	11959.9	12208.3	12381.8	12142.0	11769.4	11741.5
55°	12499.6	12553.1	12977.1	13461.1	13587.4	13422.5	13497.5	13416.1	12825.1	12302.6	12221.2
57.5°	12795.1	12900.0	13544.6	14448.3	15270.6	15514.7	14936.5	14161.3	13097.0	12358.3	12279.0
60°	12073.4	12186.9	13187.0	14902.3	17000.9	18060.9	16435.6	14287.7	12478.2	11439.6	11315.4
62.5°	9668.6	9700.7	11171.9	13833.7	18009.5	20754.8	17067.3	13210.5	10677.2	9266.0	9216.8
64°	6957.5	7287.3	8846.3	12129.1	17568.4	21780.6	16703.2	11700.8	8672.8	7244.5	7013.2
65°	5203.7	5293.6	7131.0	10358.1	16791.0	21703.5	15996.6	10257.5	7182.4	5544.2	5287.2
67.5°	1965.8	1976.5	2631.8	5163.0	11953.5	18673.4	12208.3	5580.6	3025.9	2188.6	2109.3
70°	815.9	830.9	965.8	1736.7	5137.3	11989.9	5886.8	2013.0	1107.1	897.3	884.4
72.5°	597.5	606.0	646.7	770.9	1580.4	4923.2	1935.9	854.4	648.9	580.3	573.9
75°	469.0	473.3	503.2	567.5	736.7	1364.1	805.2	586.8	494.7	445.4	441.1
77.5°	357.6	368.3	389.7	432.6	494.7	646.7	533.2	439.0	381.2	340.5	334.1
80°	246.3	259.1	299.8	316.9	331.9	419.7	364.0	331.9	297.7	248.4	233.4
82.5°	152.0	160.6	201.3	216.3	209.9	235.6	233.4	237.7	212.0	154.2	143.5
85°	79.2	83.5	109.2	113.5	104.9	96.4	119.9	139.2	130.6	87.8	85.7
87.5°	17.1	19.3	23.6	21.4	23.6	23.6	30.0	45.0	47.1	30.0	27.8
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)