

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: P454179

Luminaire Tested: **GALN-SA5B-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454179
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-SA5B-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25906 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

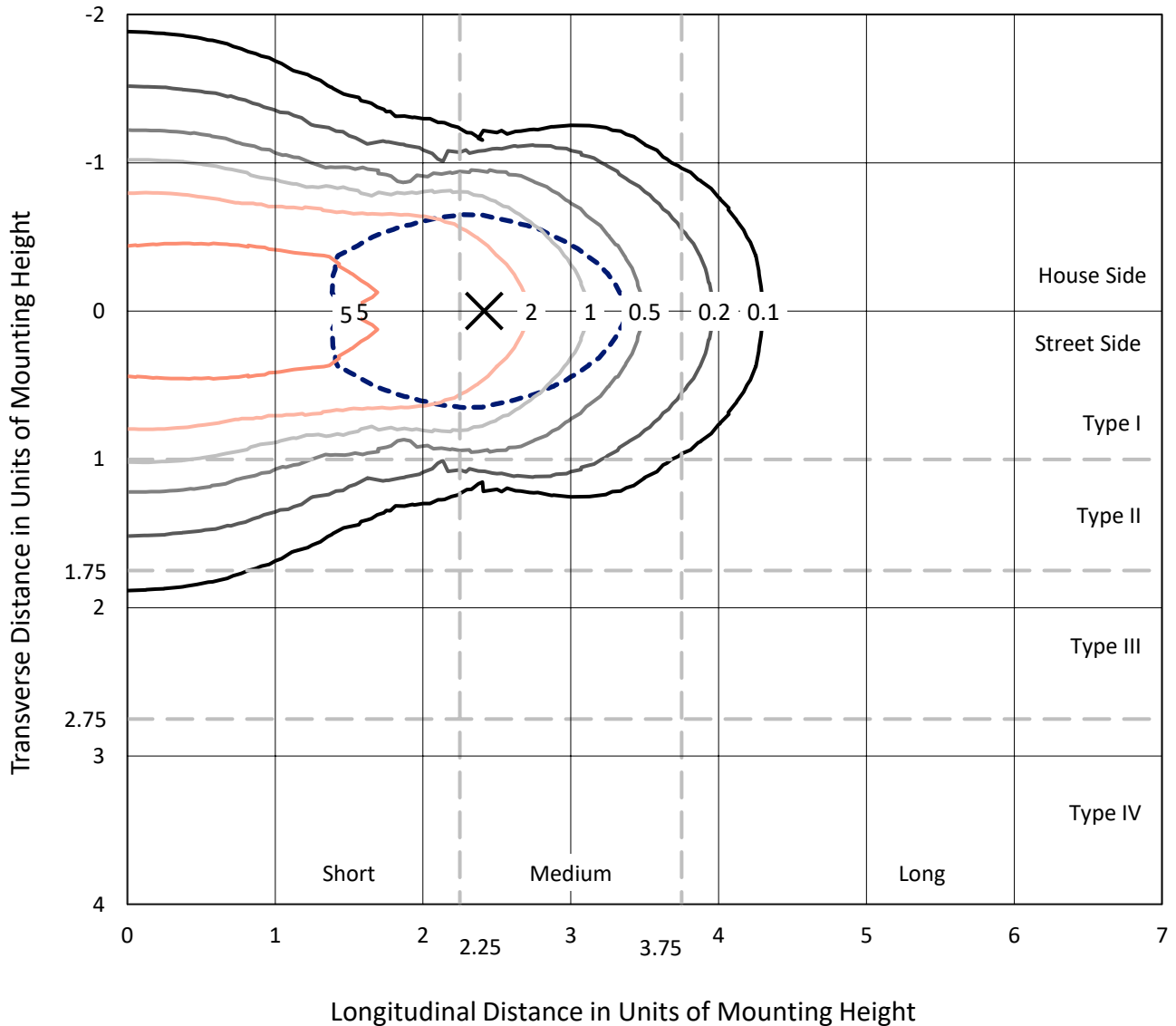
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

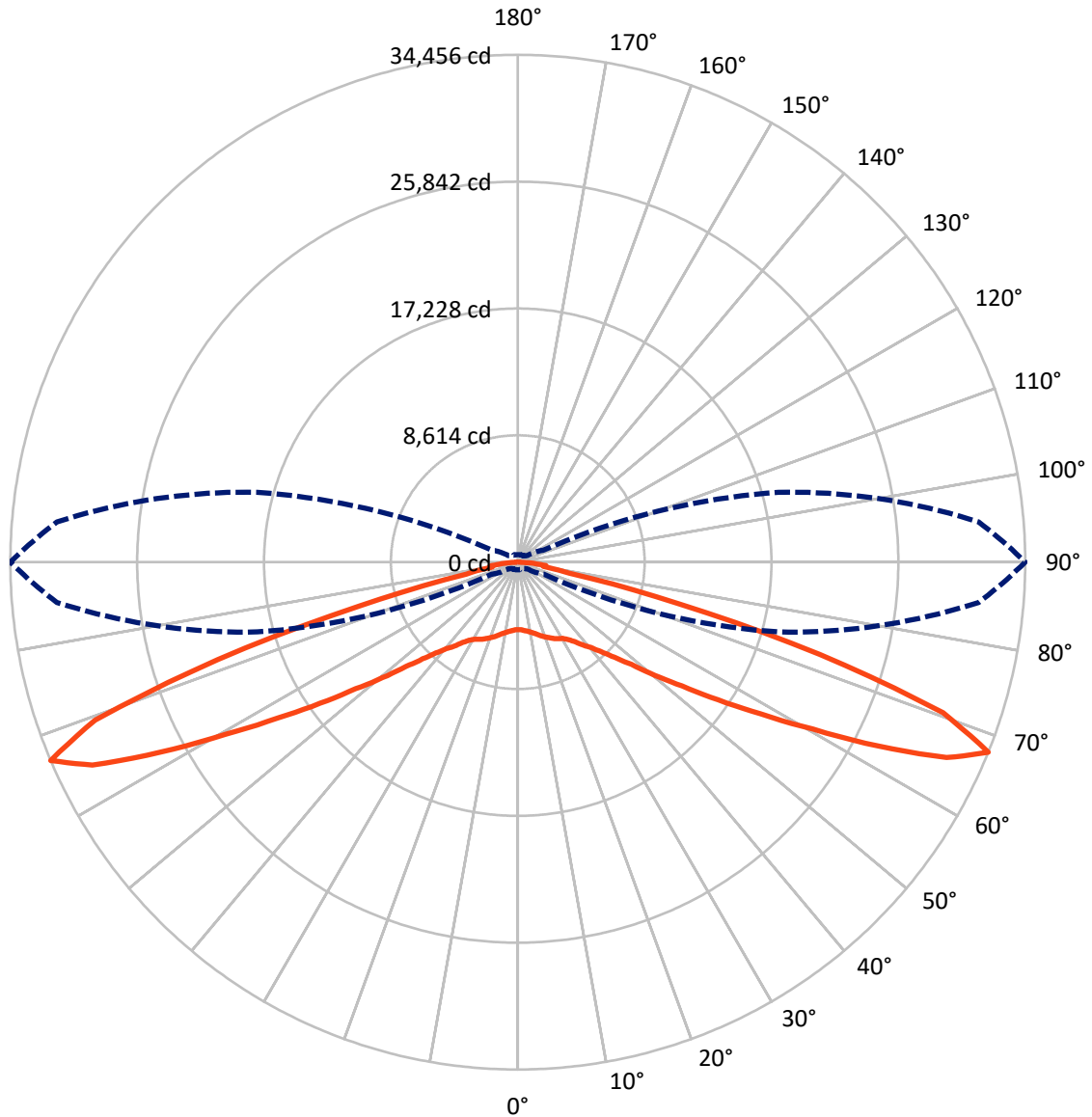
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	12953.0	0.0	12953.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12953.0	0.0	12953.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25906.0	0.0	25906.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.2	1.8
10°-20°	1462.9	5.6
20°-30°	2448.6	9.5
30°-40°	3317.2	12.8
40°-50°	4201.7	16.2
50°-60°	5249.0	20.3
60°-70°	6170.0	23.8
70°-80°	2360.3	9.1
80°-90°	239.1	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°	25906.0	100.0
0°-180°	25906.0	100.0



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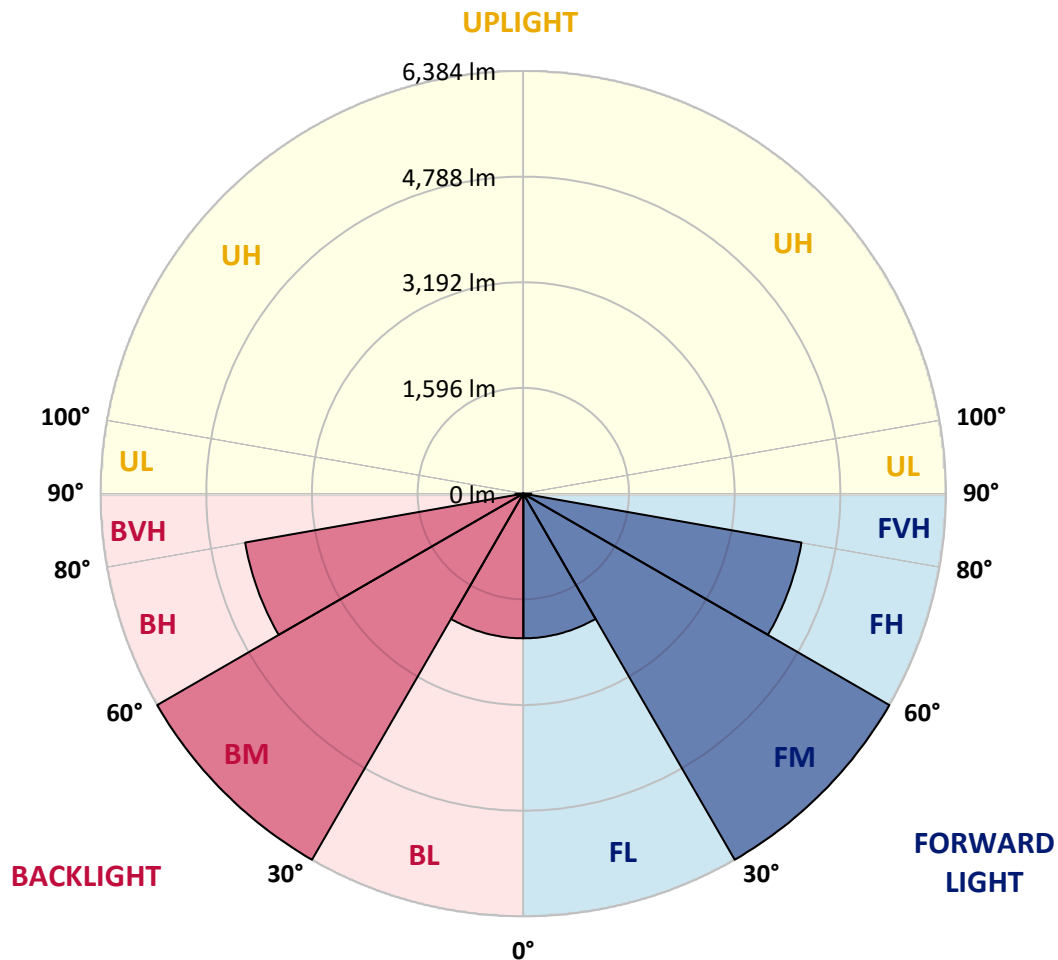
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2184.4	8.4			
FM	(30°-60°)	6383.9	24.6			
FH	(60°-80°)	4265.1	16.5			G2/5000
FVH	(80°-90°)	119.6	0.5			G2/225
BL	(0°-30°)	2184.4	8.4	B3/2500		
BM	(30°-60°)	6383.9	24.6	B4/8500		
BH	(60°-80°)	4265.1	16.5	B4/5000		G4/5000
BVH	(80°-90°)	119.6	0.5			G2/225
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°	4586.2	4586.2	4586.2	4586.2	4586.2	4586.2	4586.2	4586.2	4586.2	4586.2	4586.2
2.5°	4645.0	4642.1	4643.5	4642.1	4646.4	4643.5	4626.3	4612.0	4600.5	4601.9	4597.6
5°	4744.0	4745.4	4746.8	4739.7	4749.7	4744.0	4716.7	4693.8	4670.8	4662.2	4659.3
7.5°	4825.7	4832.9	4837.2	4844.4	4861.6	4861.6	4847.3	4814.3	4764.0	4735.4	4733.9
10°	4907.5	4913.2	4926.2	4949.1	4977.8	5005.0	4999.3	4954.8	4890.3	4841.5	4830.0
12.5°	4936.2	4943.4	4986.4	5052.4	5116.9	5170.0	5170.0	5134.2	5051.0	4976.4	4954.8
15°	4835.8	4848.7	4926.2	5066.7	5236.0	5352.2	5378.0	5327.8	5238.9	5124.1	5098.3
17.5°	4636.4	4667.9	4781.3	4989.3	5270.4	5511.4	5586.0	5561.6	5446.9	5300.6	5270.4
20°	4422.6	4457.1	4577.6	4853.0	5241.7	5604.7	5821.3	5827.0	5685.0	5472.7	5428.2
22.5°	4187.4	4213.2	4368.1	4690.9	5155.7	5626.2	6023.6	6122.5	5930.3	5644.8	5581.7
25°	3923.4	3952.1	4114.2	4462.8	4993.6	5601.8	6208.6	6426.7	6187.1	5828.5	5748.1
27.5°	3670.9	3682.4	3856.0	4210.3	4779.8	5538.7	6344.9	6706.4	6471.1	5980.5	5878.7
30°	3428.5	3455.8	3609.3	3959.3	4534.5	5415.3	6462.5	7024.9	6776.7	6139.8	6009.2
32.5°	3171.7	3204.7	3371.1	3725.5	4289.2	5230.3	6534.3	7373.4	7202.7	6398.0	6258.8
35°	2925.0	2946.5	3114.3	3458.6	4049.7	5015.1	6547.2	7766.5	7752.2	6789.6	6604.5
37.5°	2672.5	2704.1	2873.3	3203.3	3795.7	4787.0	6482.6	8184.0	8414.9	7333.3	7133.9
40°	2430.1	2457.3	2623.7	2956.6	3507.4	4508.7	6329.1	8565.5	9188.1	7892.7	7610.1
42.5°	2166.1	2173.3	2355.5	2694.0	3224.8	4185.9	6108.2	8905.5	10050.3	8643.0	8291.5
45°	1866.3	1885.0	2054.2	2387.0	2900.6	3824.4	5808.4	9186.7	11143.4	9683.0	9203.9
47.5°	1566.5	1582.3	1737.2	2065.7	2546.3	3409.9	5346.5	9433.4	12265.2	11004.2	10375.9
50°	1273.9	1282.5	1408.7	1699.9	2147.5	2973.8	4774.1	9512.3	13533.3	12874.8	12072.9
52.5°	1007.0	1019.9	1116.1	1344.1	1721.4	2458.8	4155.8	9317.2	15013.7	15092.6	13962.2
55°	816.2	820.5	892.3	1060.1	1345.6	1919.4	3409.9	8773.5	16606.0	17934.4	16492.7
57.5°	702.9	705.8	746.0	839.2	1035.7	1447.4	2645.3	7745.0	18036.3	21263.9	19410.5
60°	638.4	639.8	662.7	717.3	820.5	1110.3	1895.0	6293.3	19447.8	24969.3	23037.0
62.5°	598.2	598.2	614.0	644.1	694.3	852.1	1372.8	4540.3	20414.7	28729.2	27507.0
65°	559.5	559.5	570.9	592.5	619.7	697.2	1014.2	2960.9	20390.3	31467.7	32002.8
67.5°	515.0	515.0	523.6	545.1	560.9	599.6	783.2	1939.5	18316.0	31407.4	34455.8
70°	461.9	461.9	473.4	492.0	505.0	529.3	618.3	1326.9	13455.8	26817.0	30642.8
72.5°	408.8	410.3	417.4	436.1	446.1	460.5	513.6	929.6	8254.2	18260.0	21426.0
75°	350.0	352.9	360.1	378.7	387.3	393.1	433.2	662.7	4175.9	9845.1	11209.4
77.5°	282.6	288.3	292.6	312.7	318.5	327.1	357.2	479.1	1833.3	3537.5	3569.1
80°	206.6	213.7	226.7	245.3	249.6	255.3	272.6	340.0	830.6	1615.3	1754.4
82.5°	152.1	162.1	146.3	170.7	170.7	163.5	192.2	228.1	381.6	1599.5	1913.7
85°	83.2	84.6	76.0	87.5	93.2	91.8	101.9	111.9	185.1	1067.3	1100.3
87.5°	20.1	21.5	23.0	27.3	33.0	33.0	35.9	31.6	60.2	345.7	198.0
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)