

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: P458340

Luminaire Tested: **GALN-SA9D-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458340
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-SA9D-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 66655 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

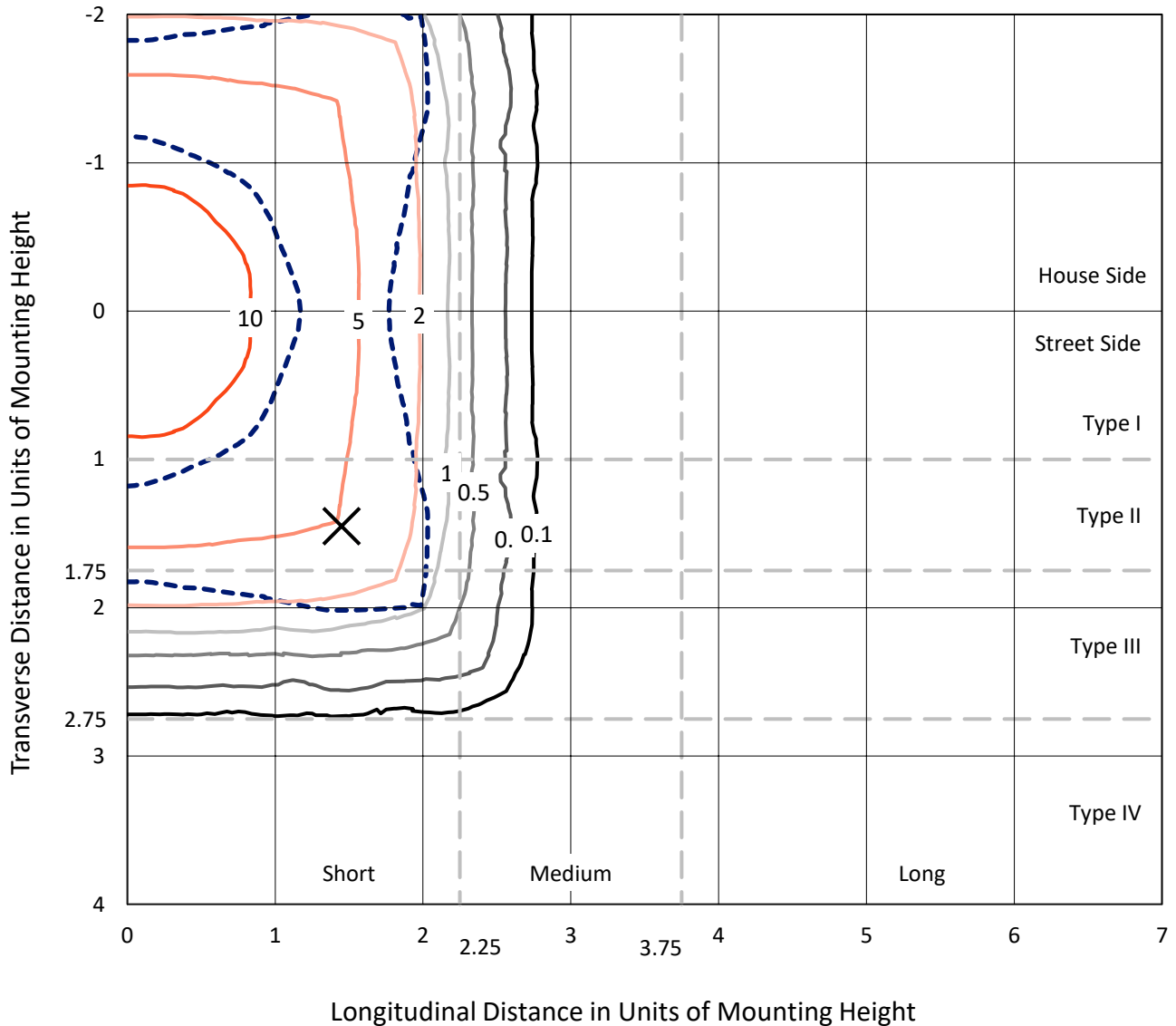
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

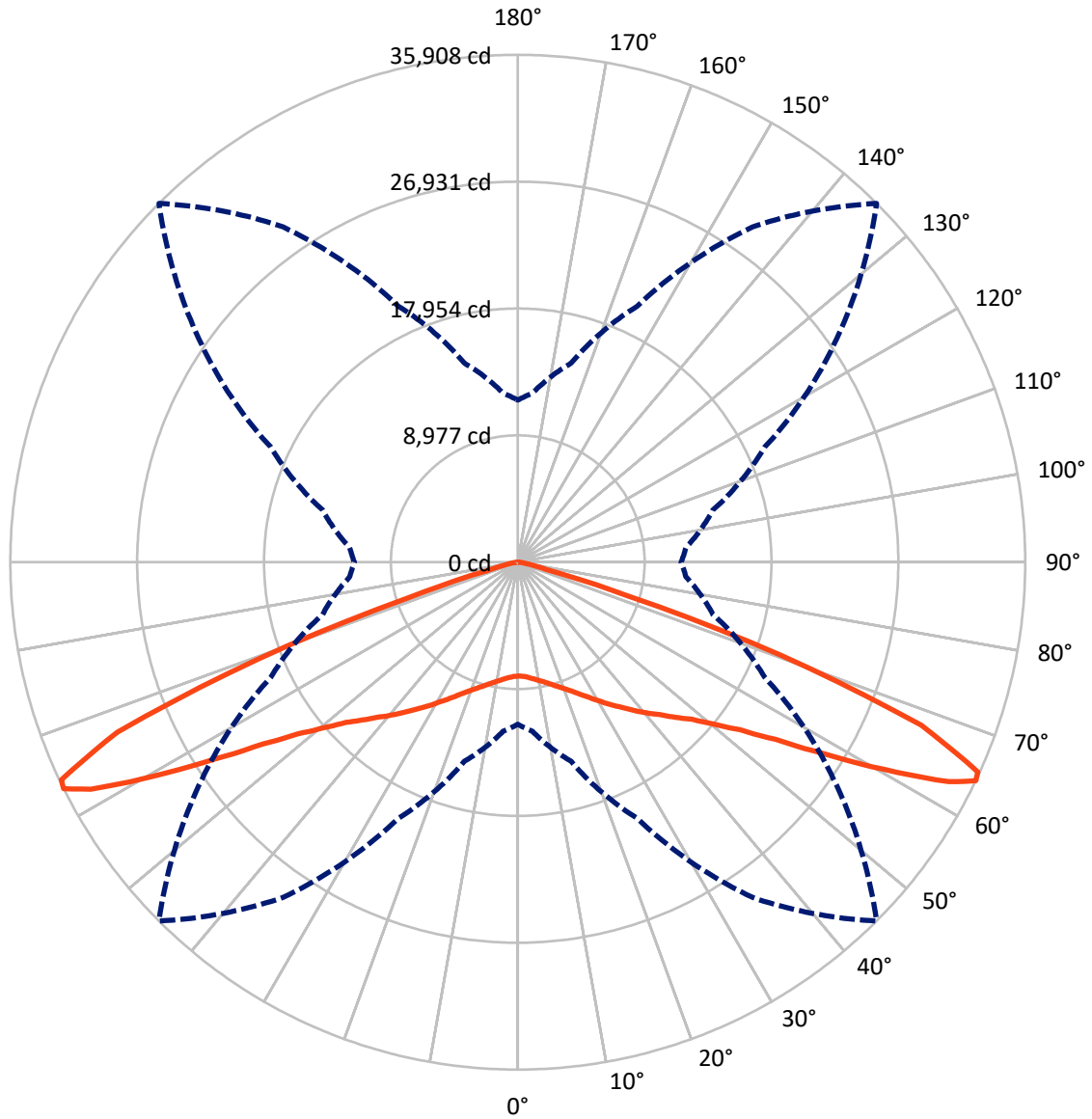
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	33327.5	0.0	33327.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33327.5	0.0	33327.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	66655.0	0.0	66655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.5	1.2
10°-20°	2553.0	3.8
20°-30°	4824.5	7.2
30°-40°	7990.0	12.0
40°-50°	12473.6	18.7
50°-60°	19283.9	28.9
60°-70°	16628.3	24.9
70°-80°	1884.4	2.8
80°-90°	225.8	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°	66655.0	100.0
0°-180°	66655.0	100.0

Coefficient of Utilization



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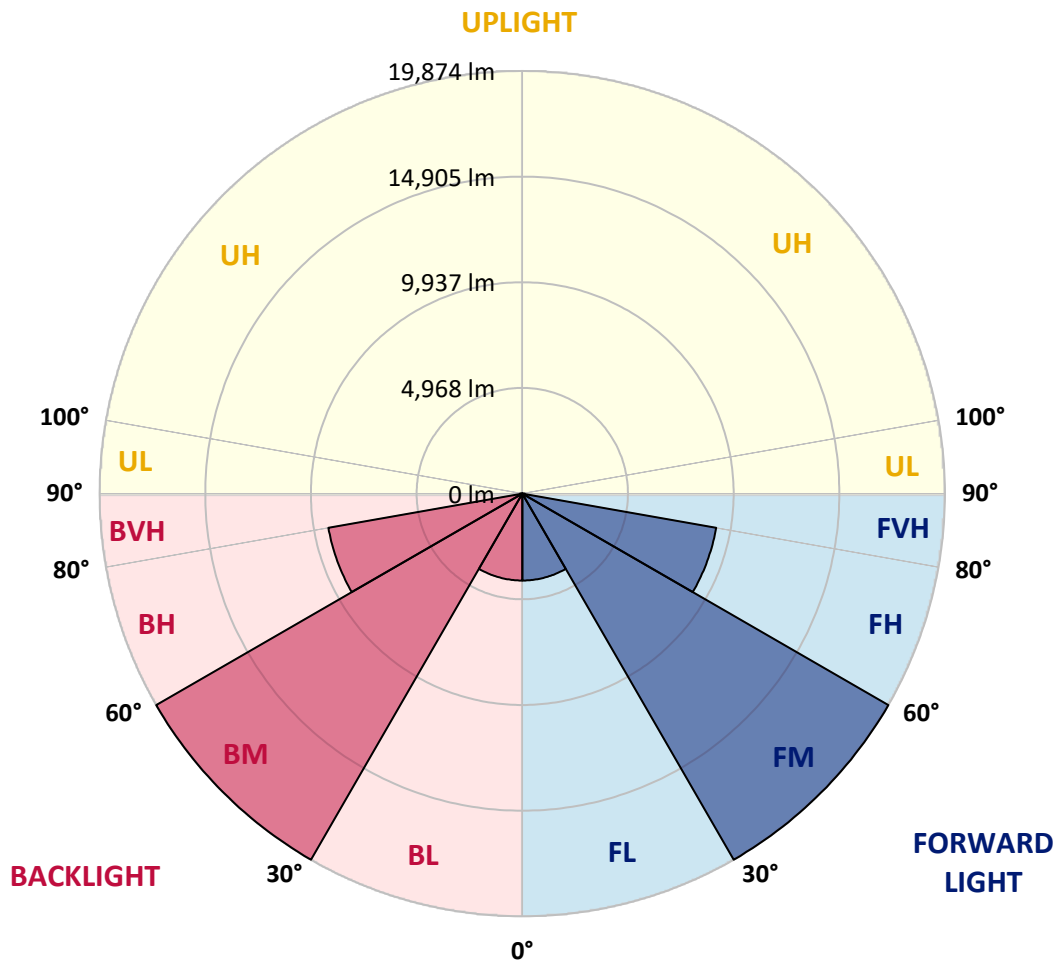
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4084.5	6.1			
FM	(30°-60°)	19873.7	29.8			
FH	(60°-80°)	9256.3	13.9			G4/12000
FVH	(80°-90°)	112.9	0.2			G2/225
BL	(0°-30°)	4084.5	6.1	B4/5000		
BM	(30°-60°)	19873.7	29.8	B5		
BH	(60°-80°)	9256.3	13.9	B5		G4/12000
BVH	(80°-90°)	112.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8056.4	8056.4	8056.4	8056.4	8056.4	8056.4	8056.4	8056.4	8056.4	8056.4	8056.4
2.5°	8088.2	8105.8	8091.7	8088.2	8084.6	8084.6	8084.6	8088.2	8102.3	8112.9	8105.8
5°	8190.5	8204.7	8197.6	8194.1	8190.5	8194.1	8187.0	8183.5	8194.1	8194.1	8190.5
7.5°	8317.6	8335.3	8328.2	8335.3	8338.8	8342.3	8324.7	8310.6	8307.0	8317.6	8310.6
10°	8490.6	8504.7	8508.3	8511.8	8518.9	8515.3	8494.1	8469.4	8465.9	8462.4	8458.8
12.5°	8684.8	8695.4	8698.9	8713.0	8723.6	8727.2	8702.4	8681.3	8646.0	8653.0	8638.9
15°	8903.7	8924.9	8921.3	8942.5	8970.8	8977.8	8953.1	8917.8	8886.0	8868.4	8857.8
17.5°	9172.0	9186.1	9179.0	9200.2	9235.5	9253.2	9232.0	9186.1	9154.3	9115.5	9094.3
20°	9489.7	9514.4	9521.5	9521.5	9553.3	9570.9	9539.1	9525.0	9475.6	9447.4	9429.7
22.5°	9849.8	9860.4	9881.6	9902.8	9934.6	9927.5	9916.9	9895.7	9849.8	9825.1	9796.9
25°	10255.8	10266.4	10319.4	10365.3	10375.9	10368.8	10354.7	10344.1	10301.7	10245.2	10224.0
27.5°	10728.9	10750.1	10820.7	10863.0	10863.0	10866.6	10838.3	10873.6	10781.8	10714.8	10707.7
30°	11322.0	11336.1	11396.1	11438.5	11417.3	11399.7	11392.6	11427.9	11329.1	11209.0	11180.8
32.5°	11908.0	11957.5	12010.4	12102.2	12028.1	11996.3	11989.2	12014.0	11901.0	11766.8	11728.0
35°	12536.5	12571.8	12670.6	12748.3	12681.2	12607.1	12638.8	12716.5	12582.4	12402.3	12395.2
37.5°	13231.9	13263.7	13390.8	13472.0	13422.6	13295.5	13348.5	13440.2	13306.1	13083.7	13037.8
40°	13955.7	14022.8	14181.6	14266.4	14185.2	14015.7	14114.5	14213.4	14093.4	13835.6	13733.3
42.5°	14767.7	14873.6	15103.1	15145.4	14990.1	14760.6	14933.6	15092.5	15007.7	14711.2	14672.4
45°	15717.4	15780.9	16063.3	16155.1	15939.8	15653.8	15869.2	16158.7	16095.1	15752.7	15678.5
47.5°	16780.0	16840.0	17133.0	17270.7	16998.9	16614.1	17002.4	17380.2	17341.3	16974.2	16938.9
50°	18036.8	18050.9	18456.9	18612.3	18340.4	18008.6	18354.6	18824.1	18668.8	18199.2	18192.2
52.5°	19413.7	19431.3	19943.2	20243.3	20091.5	19717.3	20126.8	20412.8	20017.4	19403.1	19357.2
55°	20607.0	20695.2	21394.2	22192.1	22400.4	22128.6	22252.1	22118.0	21143.6	20282.2	20148.0
57.5°	21094.2	21267.1	22329.8	23819.6	25175.3	25577.8	24624.6	23346.5	21591.9	20374.0	20243.3
60°	19904.4	20091.5	21740.2	24568.1	28027.9	29775.4	27095.8	23554.8	20571.7	18859.4	18654.6
62.5°	15939.8	15992.7	18418.1	22806.4	29690.7	34216.7	28137.3	21779.1	17602.6	15276.0	15194.9
64°	11470.3	12014.0	14584.1	19996.2	28963.4	35907.7	27537.1	19290.1	14298.1	11943.4	11562.1
65°	8578.9	8727.2	11756.2	17076.6	27681.9	35780.6	26372.1	16910.6	11841.0	9140.2	8716.6
67.5°	3240.9	3258.6	4338.9	8511.8	19706.7	30785.1	20126.8	9200.2	4988.5	3608.1	3477.4
70°	1345.1	1369.8	1592.2	2863.2	8469.4	19766.7	9705.1	3318.6	1825.2	1479.2	1458.1
72.5°	985.0	999.1	1066.2	1270.9	2605.4	8116.4	3191.5	1408.6	1069.7	956.7	946.1
75°	773.2	780.2	829.6	935.6	1214.5	2248.9	1327.4	967.3	815.5	734.3	727.3
77.5°	589.6	607.2	642.5	713.1	815.5	1066.2	879.1	723.7	628.4	561.3	550.7
80°	406.0	427.2	494.3	522.5	547.2	692.0	600.2	547.2	490.7	409.5	384.8
82.5°	250.7	264.8	331.9	356.6	346.0	388.3	384.8	391.9	349.5	254.2	236.5
85°	130.6	137.7	180.1	187.1	173.0	158.9	197.7	229.5	215.4	144.7	141.2
87.5°	28.2	31.8	38.8	35.3	38.8	38.8	49.4	74.1	77.7	49.4	45.9
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)