

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: STREETWORKS

Report Number: P316981

Luminaire Tested: **GAN-SA7D-830-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 44985 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

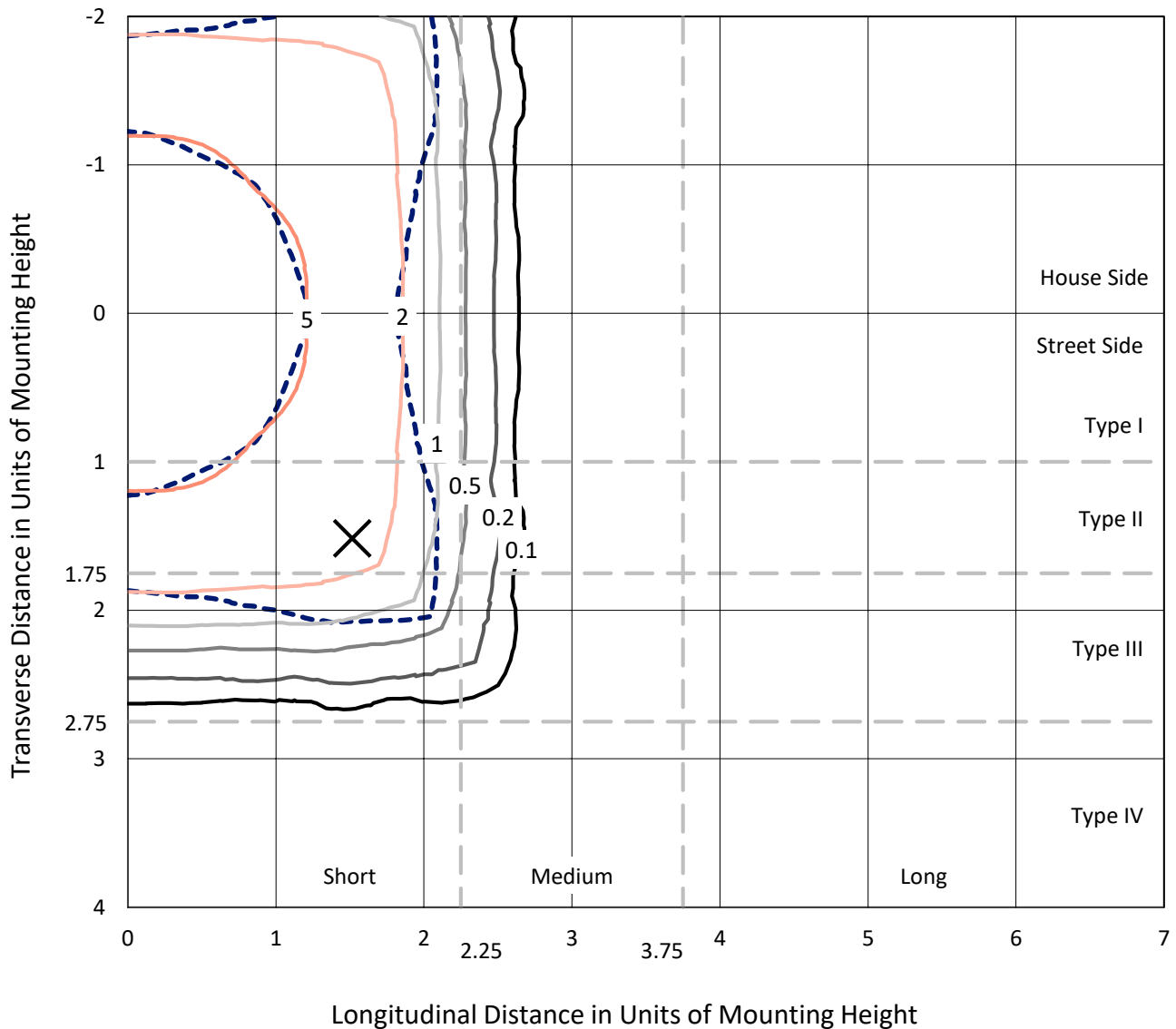
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

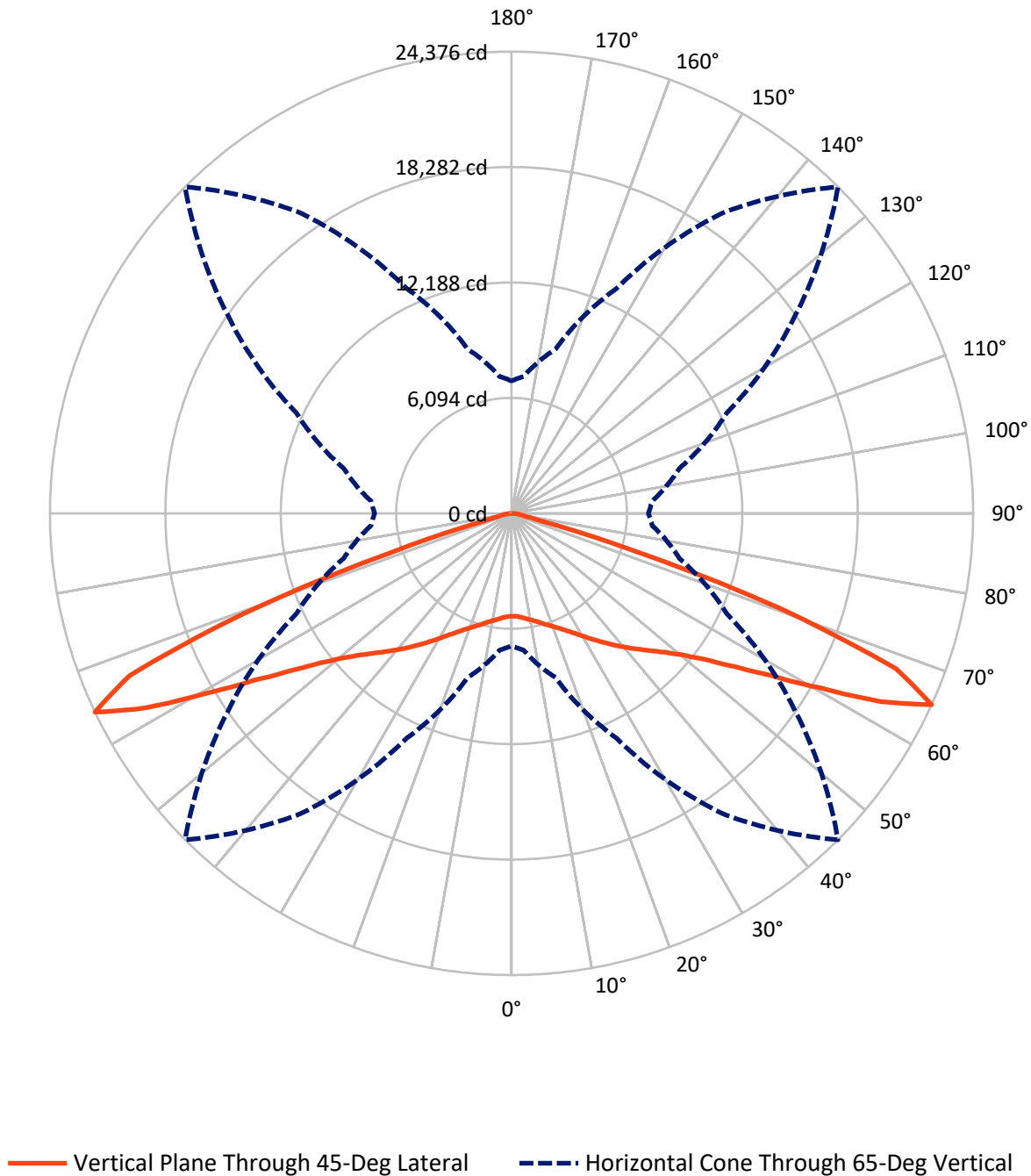
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22492.5	0.0	22492.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22492.5	0.0	22492.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44985.0	0.0	44985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	1.2
10°-20°	1713.2	3.8
20°-30°	3214.3	7.1
30°-40°	5315.8	11.8
40°-50°	8233.5	18.3
50°-60°	12627.9	28.1
60°-70°	11783.2	26.2
70°-80°	1371.4	3.0
80°-90°	192.7	0.4
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°	44985.0	100.0
0°-180°	44985.0	100.0

Coefficient of Utilization



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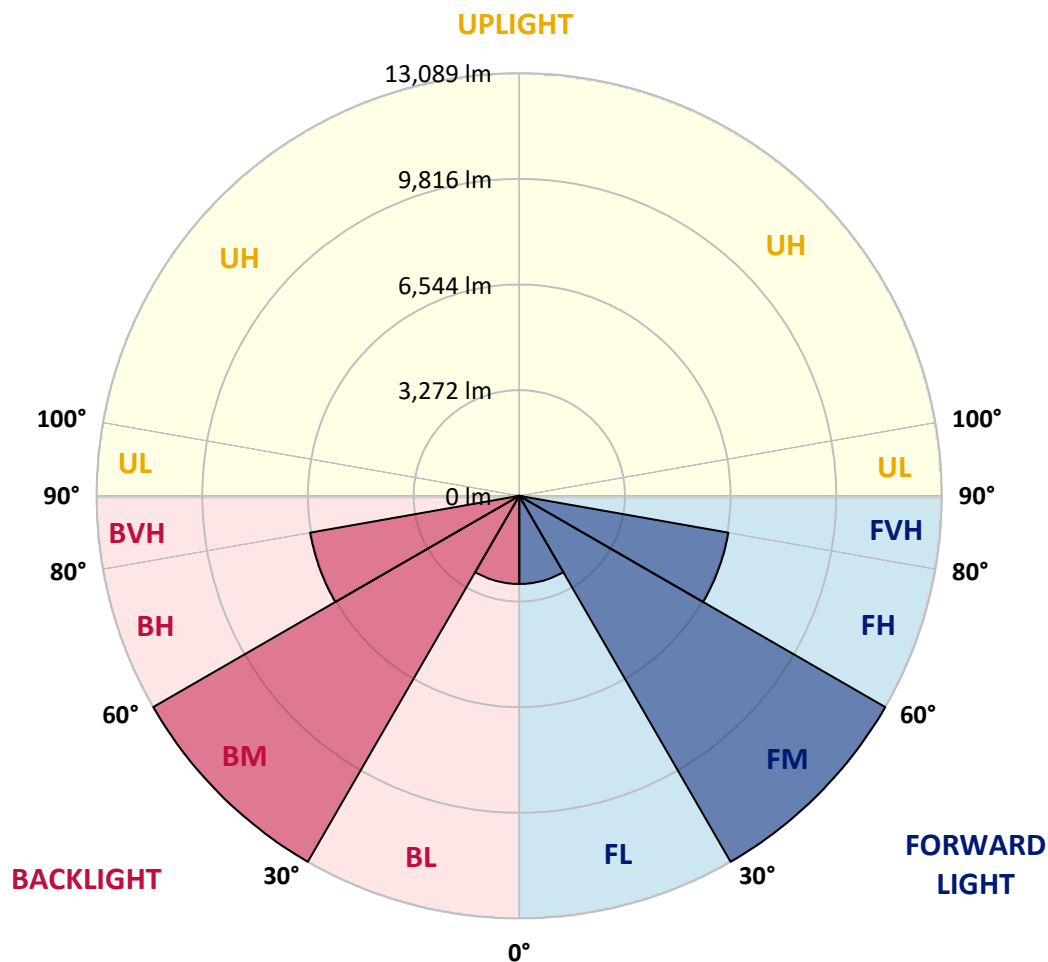
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2730.3	6.1			
FM	(30°-60°)	13088.6	29.1			
FH	(60°-80°)	6577.3	14.6			G3/7500
FVH	(80°-90°)	96.3	0.2			G1/100
BL	(0°-30°)	2730.3	6.1	B4/5000		
BM	(30°-60°)	13088.6	29.1	B5		
BH	(60°-80°)	6577.3	14.6	B5		G3/7500
BVH	(80°-90°)	96.3	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°	5432.5	5432.5	5432.5	5432.5	5432.5	5432.5	5432.5	5432.5	5432.5	5432.5	5432.5
2.5°	5450.4	5447.4	5450.4	5451.9	5443.0	5447.4	5445.9	5453.4	5456.4	5453.4	5453.4
5°	5513.1	5508.7	5514.6	5522.1	5510.2	5513.1	5508.7	5517.6	5520.6	5514.6	5519.1
7.5°	5599.8	5601.2	5607.2	5620.7	5613.2	5619.2	5610.2	5611.7	5610.2	5601.2	5602.7
10°	5693.8	5695.3	5705.8	5723.7	5726.7	5726.7	5720.7	5716.2	5710.3	5704.3	5705.8
12.5°	5807.3	5814.8	5822.3	5844.7	5844.7	5856.6	5853.6	5841.7	5831.2	5822.3	5822.3
15°	5961.1	5959.6	5968.6	5991.0	6001.4	6020.9	6020.9	6004.4	5991.0	5982.0	5979.0
17.5°	6122.4	6126.9	6132.9	6159.7	6176.2	6198.6	6201.5	6188.1	6179.1	6167.2	6159.7
20°	6310.5	6318.0	6341.9	6352.4	6367.3	6388.2	6395.7	6392.7	6383.7	6377.7	6379.2
22.5°	6530.1	6549.5	6564.4	6579.3	6597.3	6612.2	6619.7	6630.1	6621.1	6616.7	6613.7
25°	6795.9	6809.3	6839.2	6866.0	6878.0	6882.5	6891.4	6906.4	6904.9	6894.4	6894.4
27.5°	7097.5	7122.9	7160.2	7199.0	7199.0	7184.1	7214.0	7239.4	7230.4	7217.0	7199.0
30°	7463.4	7487.2	7530.5	7584.3	7557.4	7547.0	7587.3	7633.6	7620.1	7597.7	7594.8
32.5°	7857.6	7880.0	7936.7	7995.0	7960.6	7945.7	7989.0	8056.2	8032.3	7987.5	7960.6
35°	8284.7	8307.0	8387.7	8457.9	8399.6	8374.2	8410.1	8483.3	8441.4	8357.8	8336.9
37.5°	8749.1	8761.0	8865.5	8937.2	8896.9	8829.7	8874.5	8928.2	8892.4	8790.9	8750.5
40°	9231.4	9274.7	9395.6	9479.3	9409.1	9303.1	9377.7	9452.4	9398.6	9268.7	9200.0
42.5°	9794.3	9827.2	9988.5	10063.1	9949.6	9800.3	9901.9	10003.4	9949.6	9824.2	9764.5
45°	10379.7	10430.5	10623.1	10697.8	10533.5	10343.9	10467.8	10645.5	10641.0	10460.3	10397.6
47.5°	11017.3	11068.1	11298.1	11396.6	11218.9	10965.1	11139.8	11390.6	11372.7	11174.1	11123.4
50°	11753.5	11807.3	12094.0	12217.9	12052.2	11756.5	12019.3	12240.3	12207.5	11962.6	11967.0
52.5°	12677.8	12674.9	13031.7	13246.8	13076.5	12815.2	13057.1	13272.2	13136.3	12797.3	12786.9
55°	13487.2	13536.5	13978.5	14386.1	14375.7	14275.6	14372.7	14381.7	13993.4	13542.4	13487.2
57.5°	14018.8	14112.9	14735.6	15473.2	16025.8	16158.7	15970.5	15400.1	14490.7	13769.4	13681.3
60°	13691.8	13835.1	14813.2	16316.9	17944.6	18725.6	17663.9	15894.3	14103.9	13098.9	12979.5
62.5°	11484.7	11726.6	13158.7	15909.3	19596.2	21879.4	18891.3	15101.4	12565.8	11181.6	10977.0
65°	6994.5	7249.8	8976.0	13094.5	19328.9	24376.1	18331.4	12534.5	9171.7	7449.9	7228.9
67.5°	2331.0	2405.7	3422.6	7237.9	15191.0	21901.8	15216.4	7503.7	3991.5	2646.1	2568.4
70°	912.4	919.9	1085.6	2098.0	7173.7	15043.2	7915.8	2135.4	1134.9	897.5	916.9
72.5°	670.5	673.5	719.8	876.5	1869.6	6627.1	1936.8	881.0	700.3	628.7	628.7
75°	539.1	539.1	571.9	639.1	837.7	1520.1	849.7	631.7	548.0	501.7	495.8
77.5°	425.6	434.5	459.9	503.2	567.4	731.7	588.3	500.2	442.0	398.7	389.7
80°	316.6	325.5	367.3	388.2	407.7	507.7	434.5	391.2	349.4	298.7	289.7
82.5°	207.6	216.5	268.8	280.7	276.3	331.5	292.7	288.2	256.8	192.6	183.7
85°	135.9	138.9	179.2	186.7	171.7	150.8	186.7	197.1	179.2	125.4	121.0
87.5°	64.2	64.2	91.1	85.1	77.6	62.7	85.1	100.0	101.5	61.2	59.7
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)