

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: P383243

Luminaire Tested: **GLEON-SA5D-735-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383243  
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: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 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: 37264.7 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

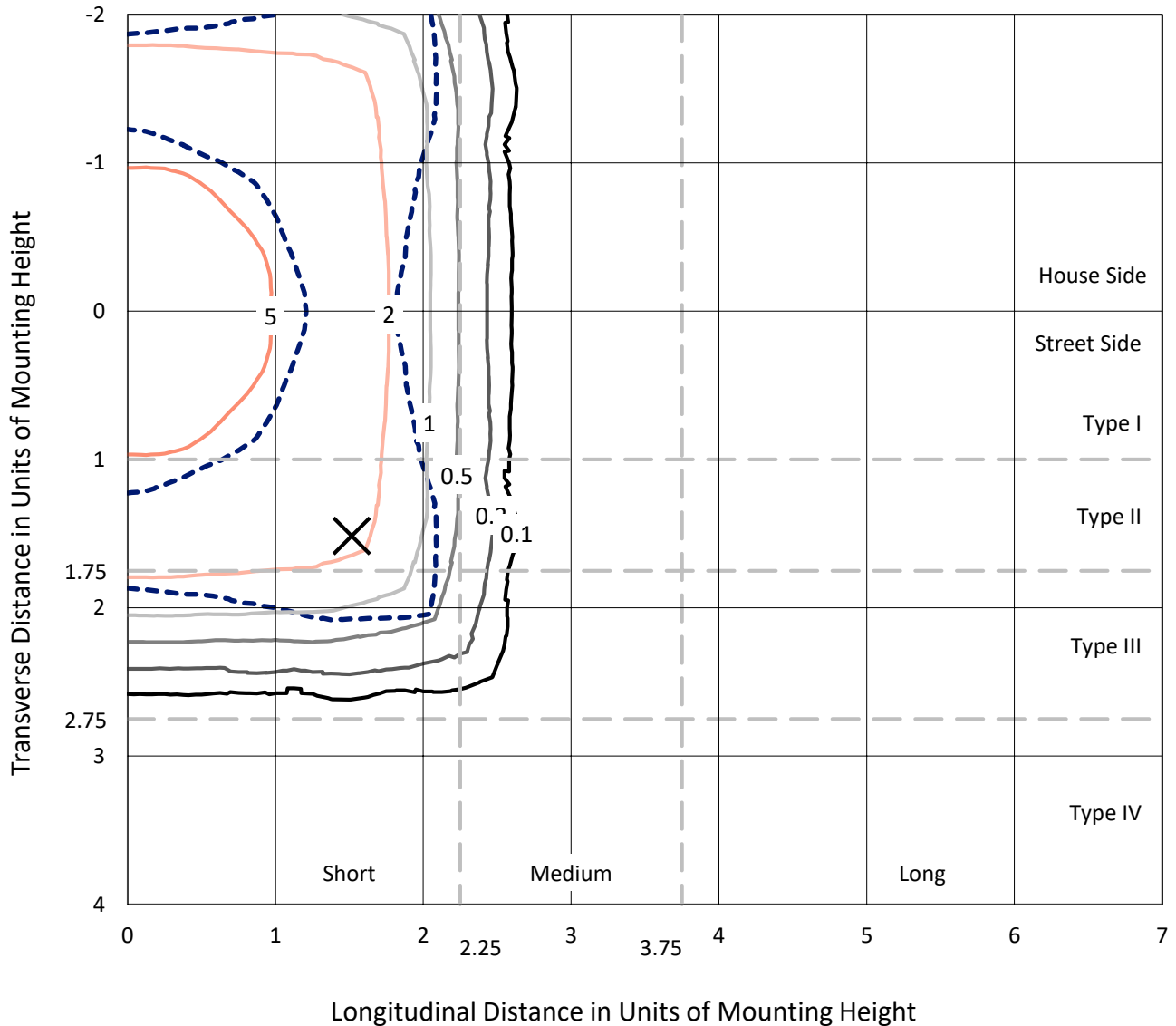
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

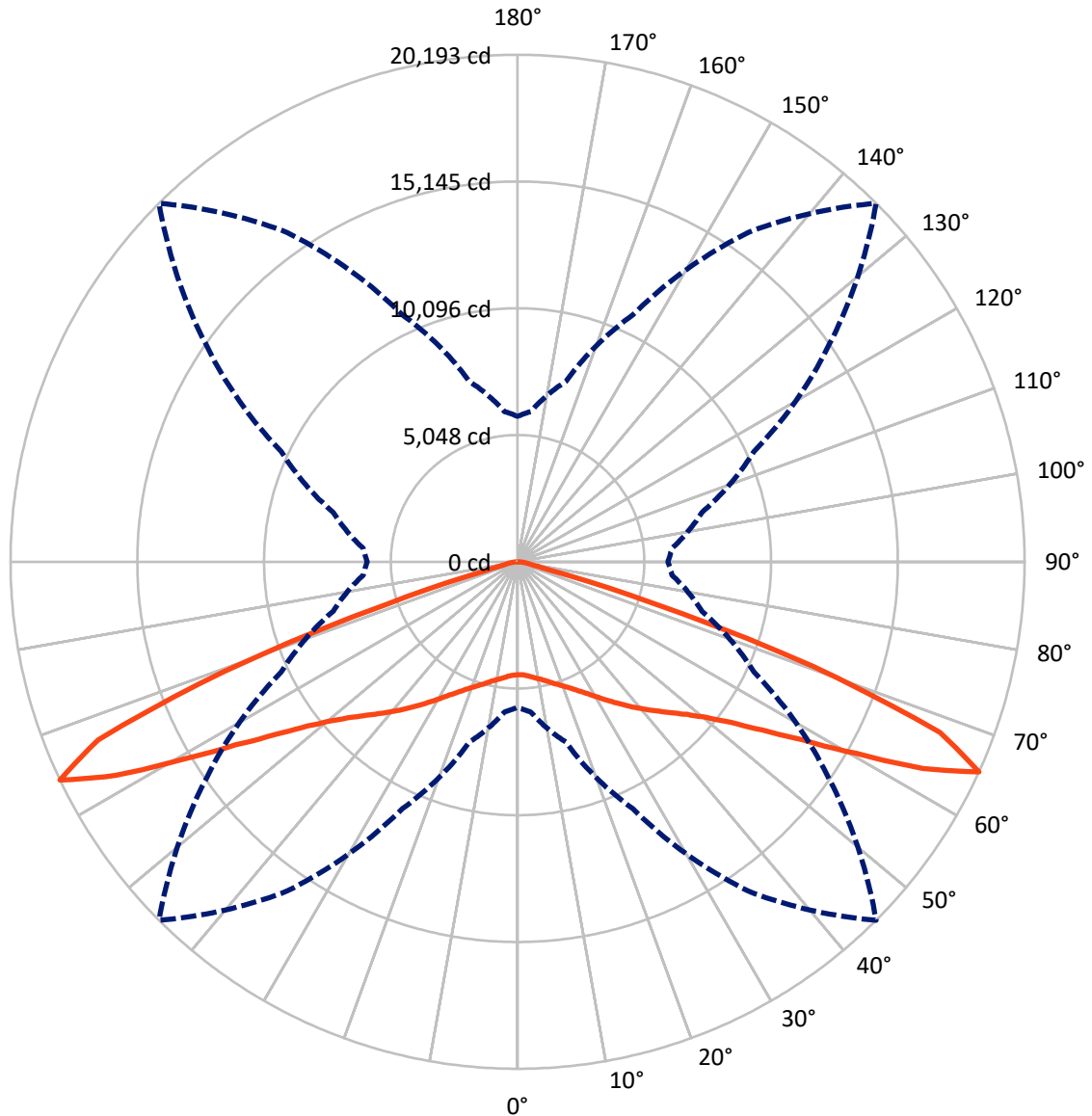
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18632.4	0.0	18632.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18632.4	0.0	18632.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37264.7	0.0	37264.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.5	1.2
10°-20°	1419.2	3.8
20°-30°	2662.7	7.1
30°-40°	4403.5	11.8
40°-50°	6820.5	18.3
50°-60°	10460.7	28.1
60°-70°	9761.0	26.2
70°-80°	1136.0	3.0
80°-90°	159.6	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°	37264.7	100.0
0°-180°	37264.7	100.0

**Coefficient of Utilization**

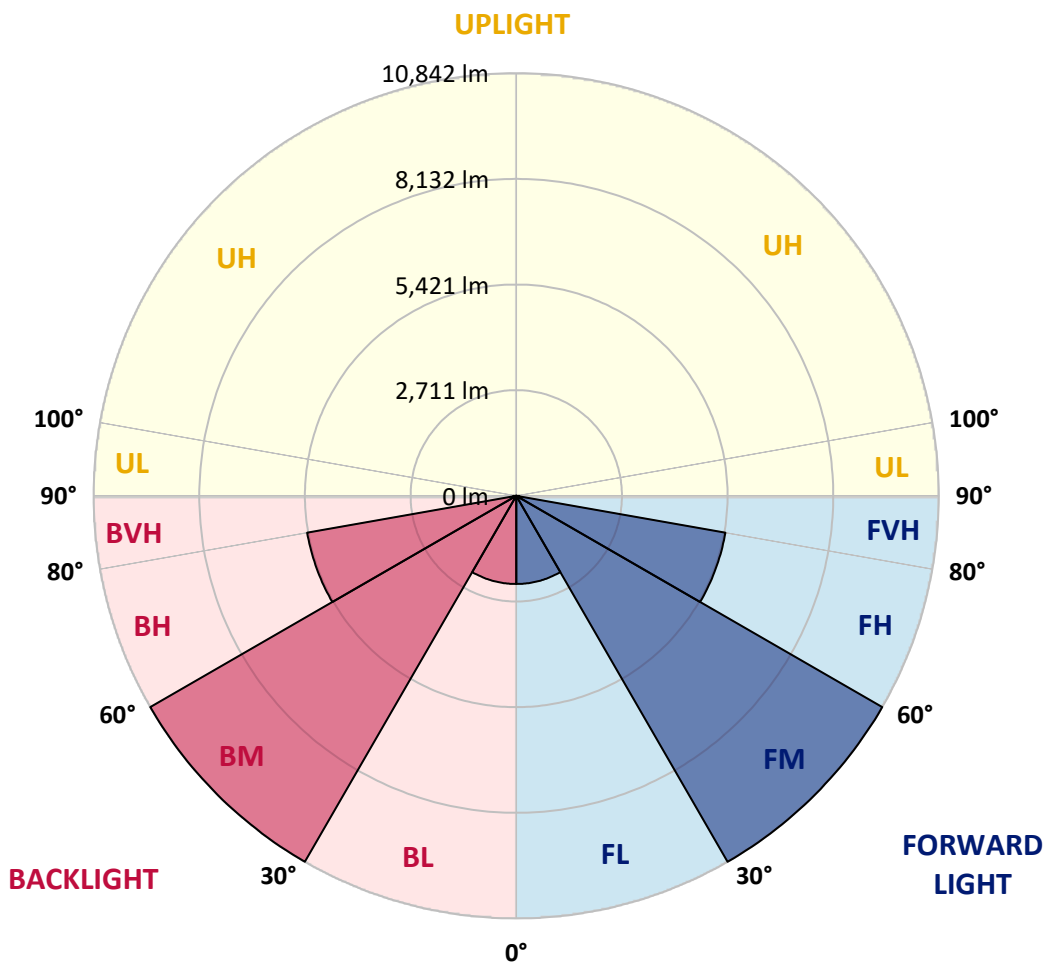


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.7	6.1			
FM (30°-60°)	10842.3	29.1			
FH (60°-80°)	5448.5	14.6			G3/7500
FVH (80°-90°)	79.8	0.2			G1/100
BL (0°-30°)	2261.7	6.1	B3/2500		
BM (30°-60°)	10842.3	29.1	B5		
BH (60°-80°)	5448.5	14.6	B5		G3/7500
BVH (80°-90°)	79.8	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°	4500.2	4500.2	4500.2	4500.2	4500.2	4500.2	4500.2	4500.2	4500.2	4500.2	4500.2
2.5°	4515.0	4512.5	4515.0	4516.2	4508.9	4512.5	4511.3	4517.5	4520.0	4517.5	4517.5
5°	4567.0	4563.3	4568.2	4574.4	4564.5	4567.0	4563.3	4570.7	4573.2	4568.2	4571.9
7.5°	4638.7	4639.9	4644.9	4656.1	4649.8	4654.9	4647.4	4648.6	4647.4	4639.9	4641.2
10°	4716.6	4717.9	4726.6	4741.4	4743.9	4743.9	4739.0	4735.2	4730.3	4725.3	4726.6
12.5°	4810.7	4816.8	4823.0	4841.6	4841.6	4851.5	4849.0	4839.1	4830.4	4823.0	4823.0
15°	4938.0	4936.8	4944.3	4962.8	4971.5	4987.6	4987.6	4974.0	4962.8	4955.4	4952.9
17.5°	5071.7	5075.4	5080.3	5102.6	5116.2	5134.8	5137.2	5126.1	5118.7	5108.8	5102.6
20°	5227.6	5233.7	5253.6	5262.1	5274.5	5291.8	5298.1	5295.6	5288.1	5283.2	5284.5
22.5°	5409.4	5425.4	5437.8	5450.2	5465.0	5477.4	5483.6	5492.2	5484.9	5481.1	5478.6
25°	5629.5	5640.7	5665.4	5687.7	5697.6	5701.4	5708.7	5721.1	5719.9	5711.2	5711.2
27.5°	5879.5	5900.4	5931.3	5963.6	5963.6	5951.2	5975.9	5996.9	5989.6	5978.4	5963.6
30°	6182.5	6202.2	6238.2	6282.7	6260.5	6251.8	6285.2	6323.5	6312.4	6293.8	6291.4
32.5°	6509.1	6527.6	6574.6	6622.8	6594.4	6582.0	6617.9	6673.6	6653.8	6616.7	6594.4
35°	6862.8	6881.4	6948.2	7006.4	6958.1	6937.0	6966.8	7027.4	6992.8	6923.4	6906.1
37.5°	7247.5	7257.4	7344.0	7403.4	7370.0	7314.3	7351.5	7396.0	7366.3	7282.2	7248.7
40°	7647.1	7682.9	7783.2	7852.5	7794.3	7706.5	7768.4	7830.2	7785.6	7678.0	7621.1
42.5°	8113.4	8140.7	8274.3	8336.1	8242.1	8118.4	8202.5	8286.6	8242.1	8138.2	8088.7
45°	8598.4	8640.4	8800.0	8861.8	8725.7	8568.7	8671.3	8818.5	8814.9	8665.2	8613.2
47.5°	9126.6	9168.6	9359.1	9440.8	9293.5	9083.2	9228.0	9435.8	9420.9	9256.4	9214.4
50°	9736.3	9780.9	10018.4	10121.1	9983.8	9738.9	9956.6	10139.6	10112.4	9909.5	9913.3
52.5°	10502.1	10499.6	10795.2	10973.4	10832.3	10615.9	10816.3	10994.4	10881.9	10601.0	10592.3
55°	11172.5	11213.3	11579.5	11917.2	11908.5	11825.6	11906.1	11913.5	11591.9	11218.3	11172.5
57.5°	11612.9	11690.8	12206.6	12817.7	13275.4	13385.5	13229.7	12757.1	12003.8	11406.3	11333.3
60°	11342.0	11460.7	12271.0	13516.7	14865.0	15511.9	14632.4	13166.6	11683.4	10850.9	10751.9
62.5°	9513.7	9714.1	10900.4	13179.0	16233.1	18124.5	15649.3	12509.8	10409.3	9262.7	9093.1
65°	5794.0	6005.6	7435.6	10847.2	16011.6	20192.7	15185.3	10383.3	7597.6	6171.4	5988.3
67.5°	1930.9	1992.8	2835.2	5995.7	12583.9	18143.0	12605.0	6215.9	3306.5	2191.9	2127.7
70°	755.8	762.0	899.3	1738.0	5942.5	12461.5	6557.3	1768.9	940.1	743.5	759.5
72.5°	555.4	557.9	596.2	726.1	1548.7	5489.8	1604.4	729.9	580.2	520.7	520.7
75°	446.6	446.6	473.8	529.4	693.9	1259.3	703.9	523.3	453.9	415.7	410.7
77.5°	352.5	359.9	381.0	416.9	470.1	606.2	487.4	414.4	366.2	330.2	322.9
80°	262.2	269.7	304.3	321.7	337.7	420.6	359.9	324.1	289.4	247.4	240.0
82.5°	172.0	179.3	222.6	232.5	228.9	274.6	242.5	238.8	212.8	159.6	152.1
85°	112.5	115.0	148.4	154.6	142.2	124.9	154.6	163.3	148.4	103.9	100.2
87.5°	53.2	53.2	75.5	70.5	64.4	52.0	70.5	82.9	84.1	50.7	49.5
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)