

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: P382823

Luminaire Tested: **GLEON-SA2A-735-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382823  
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-SA2A-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9161.8 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

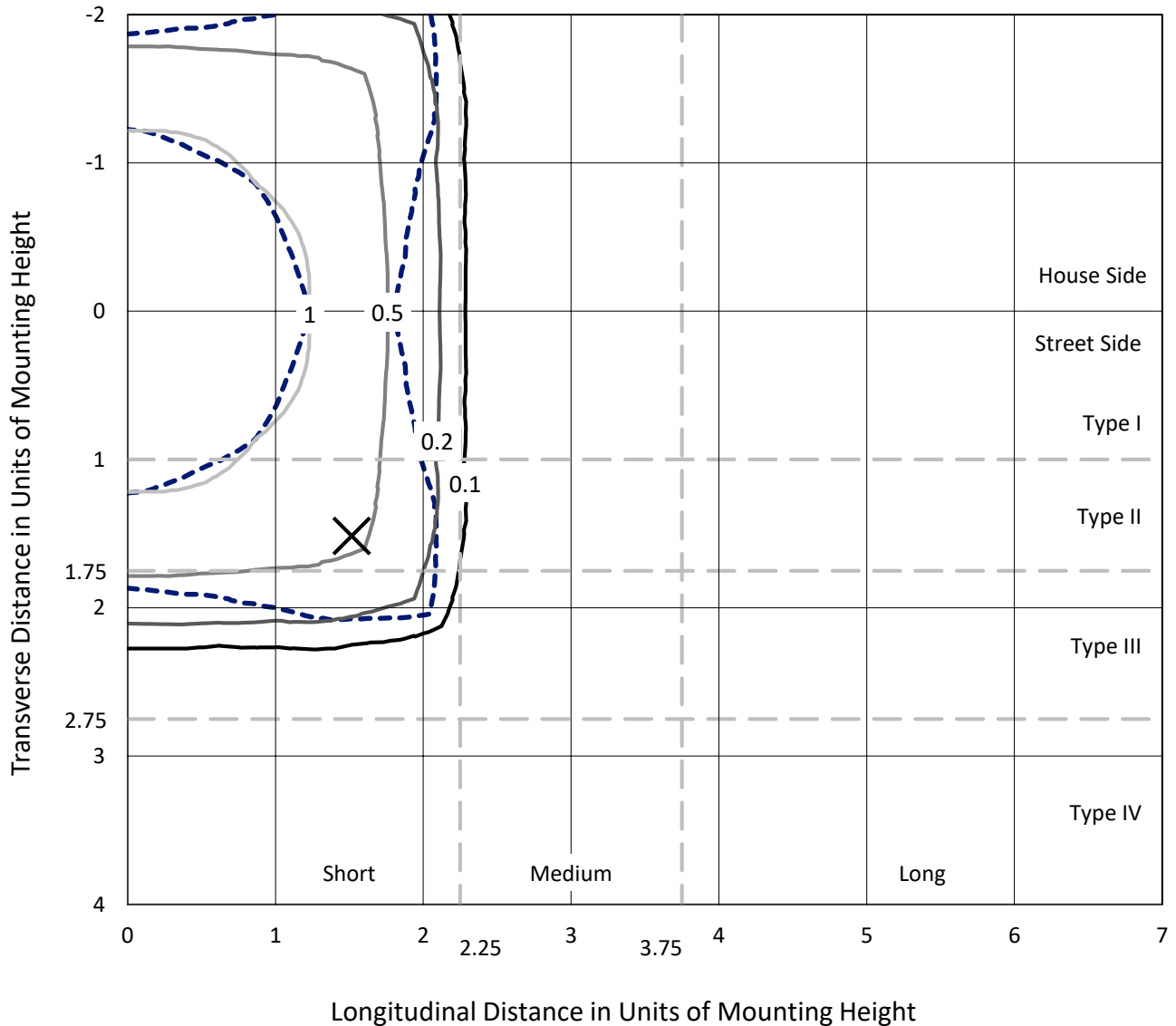
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

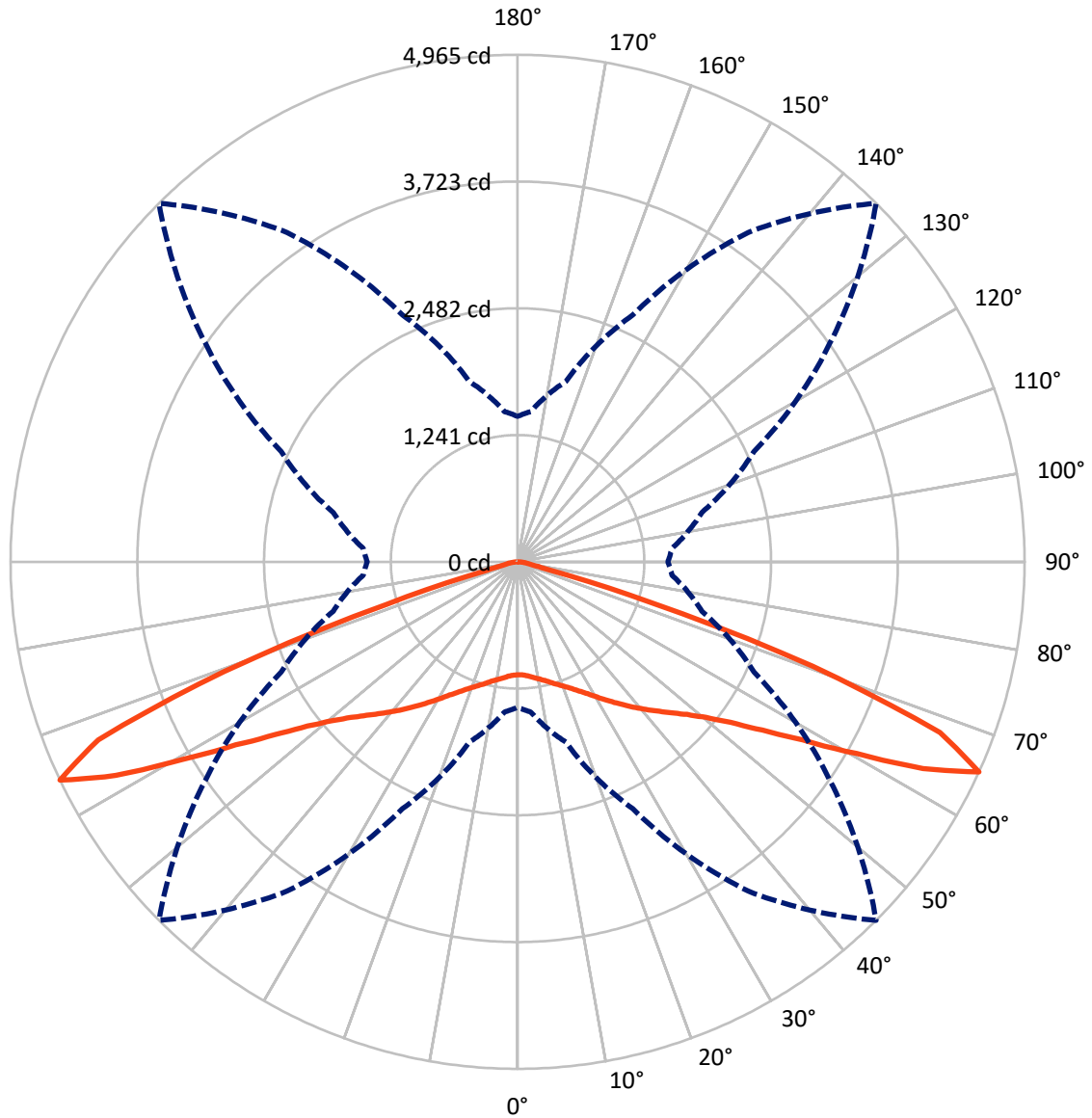
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	4580.9	0.0	4580.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4580.9	0.0	4580.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9161.8	0.0	9161.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	1.2
10°-20°	348.9	3.8
20°-30°	654.6	7.1
30°-40°	1082.6	11.8
40°-50°	1676.9	18.3
50°-60°	2571.8	28.1
60°-70°	2399.8	26.2
70°-80°	279.3	3.0
80°-90°	39.2	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°	9161.8	100.0
0°-180°	9161.8	100.0

**Coefficient of Utilization**



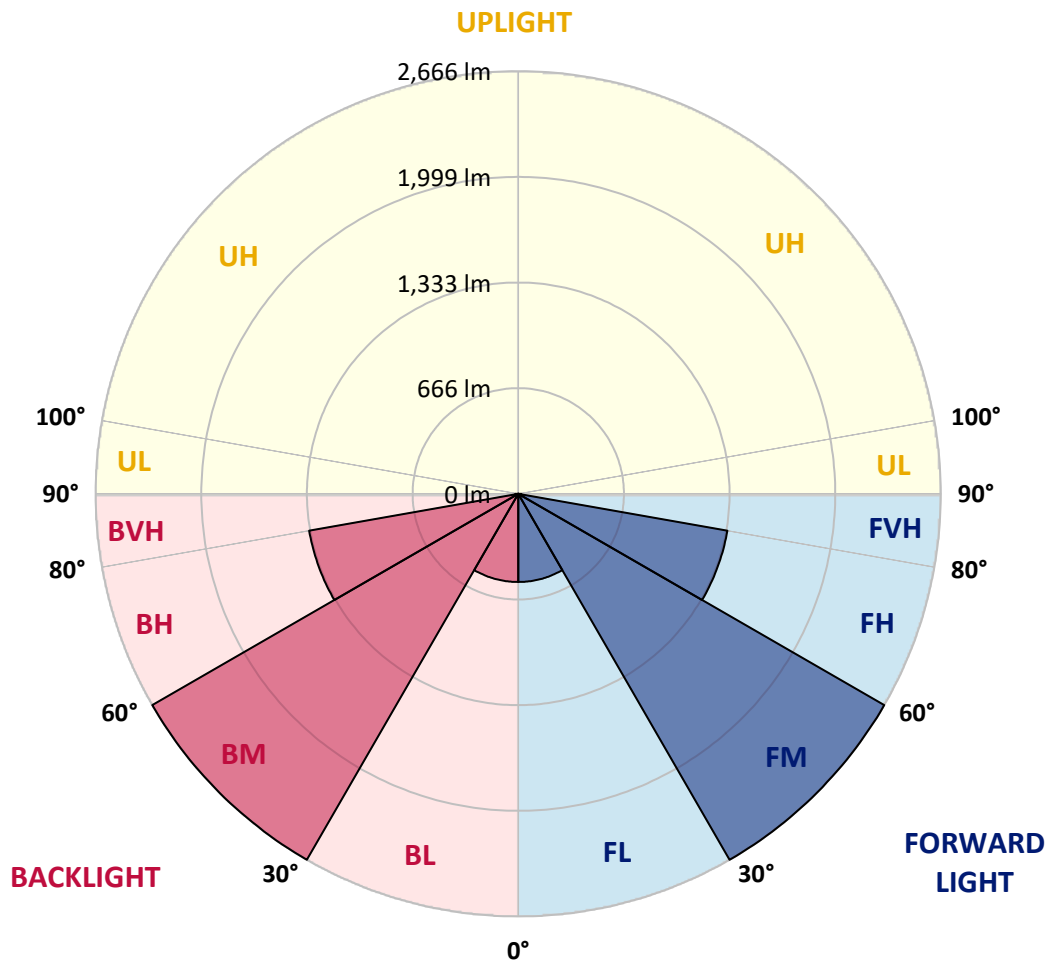
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.1	6.1			
FM (30°-60°)	2665.7	29.1			
FH (60°-80°)	1339.6	14.6			G1/1800
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	556.1	6.1	B2/1000		
BM (30°-60°)	2665.7	29.1	B3/5000		
BH (60°-80°)	1339.6	14.6	B3/2500		G1/1800
BVH (80°-90°)	19.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4
2.5°	1110.0	1109.5	1110.0	1110.3	1108.5	1109.5	1109.1	1110.7	1111.2	1110.7	1110.7
5°	1122.8	1122.0	1123.2	1124.7	1122.2	1122.8	1122.0	1123.7	1124.4	1123.2	1124.0
7.5°	1140.5	1140.8	1142.0	1144.7	1143.2	1144.4	1142.6	1142.9	1142.6	1140.8	1141.1
10°	1159.6	1160.0	1162.0	1165.7	1166.3	1166.3	1165.1	1164.2	1162.9	1161.7	1162.0
12.5°	1182.7	1184.3	1185.8	1190.3	1190.3	1192.8	1192.2	1189.8	1187.6	1185.8	1185.8
15°	1214.1	1213.7	1215.6	1220.1	1222.3	1226.2	1226.2	1222.8	1220.1	1218.3	1217.7
17.5°	1246.9	1247.8	1249.0	1254.5	1257.9	1262.4	1263.0	1260.3	1258.4	1256.0	1254.5
20°	1285.3	1286.7	1291.6	1293.7	1296.8	1301.0	1302.6	1301.9	1300.2	1298.9	1299.2
22.5°	1330.0	1333.9	1337.0	1339.9	1343.6	1346.6	1348.1	1350.3	1348.5	1347.6	1346.9
25°	1384.1	1386.8	1392.8	1398.3	1400.8	1401.7	1403.6	1406.5	1406.3	1404.1	1404.1
27.5°	1445.5	1450.7	1458.2	1466.2	1466.2	1463.2	1469.2	1474.4	1472.6	1469.8	1466.2
30°	1520.0	1524.9	1533.7	1544.6	1539.2	1537.1	1545.3	1554.7	1552.0	1547.4	1546.7
32.5°	1600.3	1604.9	1616.4	1628.3	1621.3	1618.3	1627.0	1640.7	1635.9	1626.8	1621.3
35°	1687.3	1691.9	1708.3	1722.5	1710.7	1705.5	1712.8	1727.7	1719.2	1702.2	1697.9
37.5°	1781.9	1784.3	1805.6	1820.2	1812.0	1798.3	1807.4	1818.4	1811.0	1790.3	1782.1
40°	1880.0	1888.9	1913.6	1930.5	1916.3	1894.7	1909.9	1925.1	1914.1	1887.7	1873.7
42.5°	1994.7	2001.4	2034.3	2049.5	2026.4	1995.9	2016.6	2037.3	2026.4	2000.9	1988.7
45°	2114.0	2124.3	2163.5	2178.7	2145.3	2106.7	2131.9	2168.1	2167.2	2130.4	2117.6
47.5°	2243.8	2254.2	2301.0	2321.0	2284.9	2233.2	2268.8	2319.8	2316.2	2275.8	2265.4
50°	2393.8	2404.7	2463.1	2488.3	2454.5	2394.4	2447.9	2492.9	2486.2	2436.4	2437.2
52.5°	2582.0	2581.4	2654.1	2697.9	2663.2	2610.0	2659.3	2703.1	2675.4	2606.4	2604.2
55°	2746.9	2756.9	2846.9	2929.9	2927.8	2907.5	2927.2	2929.0	2850.0	2758.1	2746.9
57.5°	2855.1	2874.3	3001.1	3151.3	3263.9	3290.9	3252.6	3136.4	2951.2	2804.3	2786.4
60°	2788.5	2817.7	3016.9	3323.1	3654.6	3813.7	3597.5	3237.1	2872.4	2667.8	2643.5
62.5°	2339.0	2388.3	2680.0	3240.1	3991.0	4456.1	3847.5	3075.6	2559.2	2277.3	2235.6
65°	1424.5	1476.5	1828.1	2666.8	3936.5	4964.5	3733.5	2552.8	1867.9	1517.3	1472.2
67.5°	474.7	489.9	697.1	1474.1	3093.9	4460.5	3099.0	1528.2	813.0	538.9	523.1
70°	185.8	187.3	221.1	427.3	1461.0	3063.8	1612.1	434.9	231.1	182.8	186.8
72.5°	136.6	137.1	146.6	178.5	380.7	1349.7	394.4	179.4	142.6	128.0	128.0
75°	109.8	109.8	116.4	130.1	170.7	309.6	173.1	128.6	111.6	102.2	101.0
77.5°	86.6	88.5	93.7	102.5	115.6	149.0	119.8	101.9	90.0	81.2	79.4
80°	64.5	66.3	74.8	79.1	83.0	103.4	88.5	79.6	71.2	60.8	59.0
82.5°	42.3	44.1	54.8	57.2	56.3	67.5	59.6	58.7	52.4	39.2	37.4
85°	27.7	28.3	36.5	38.0	34.9	30.7	38.0	40.1	36.5	25.5	24.6
87.5°	13.0	13.0	18.5	17.3	15.8	12.8	17.3	20.4	20.7	12.5	12.2
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)