

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: P316296

Luminaire Tested: **GLEON-SA2D-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12293 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

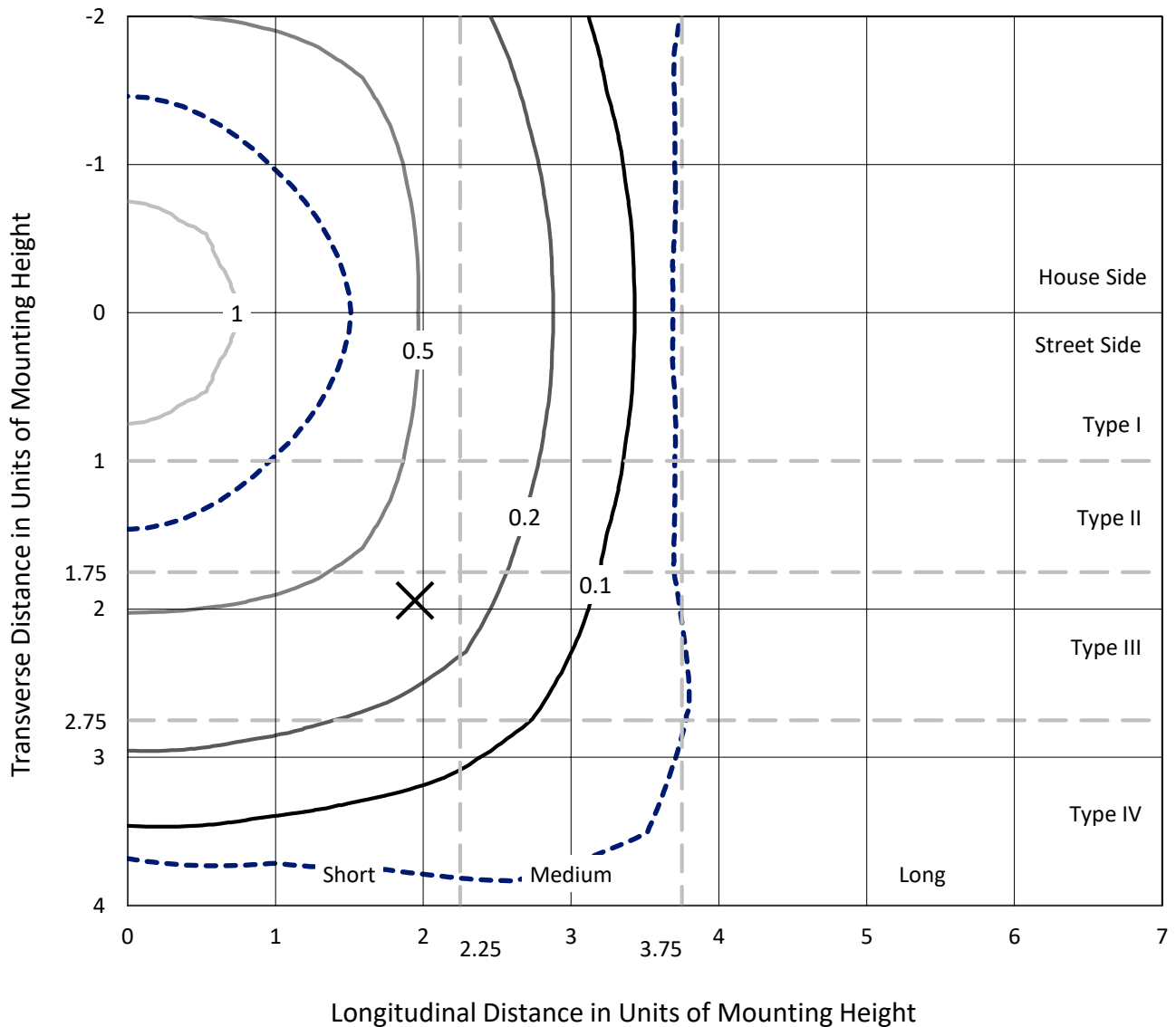
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

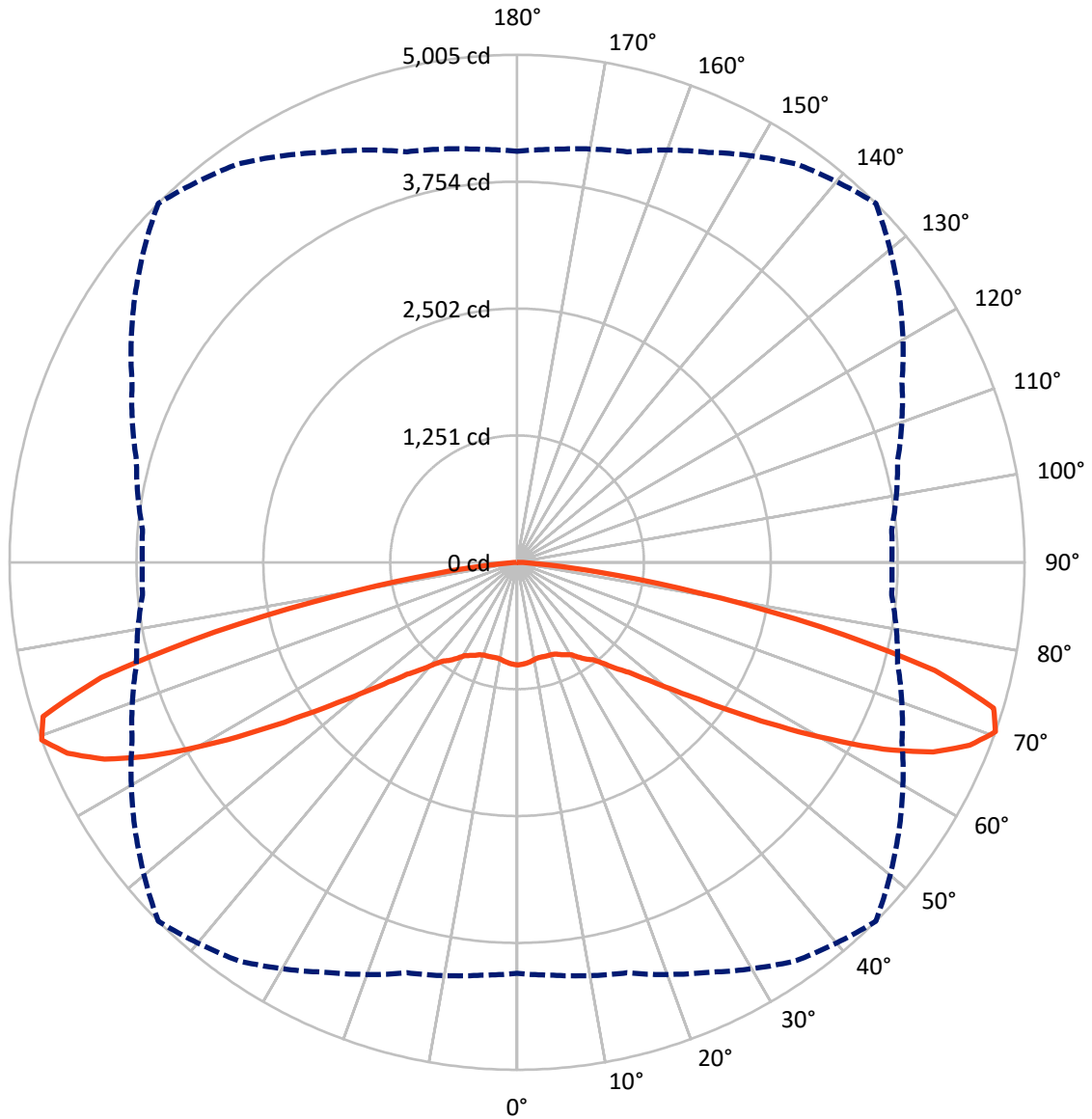
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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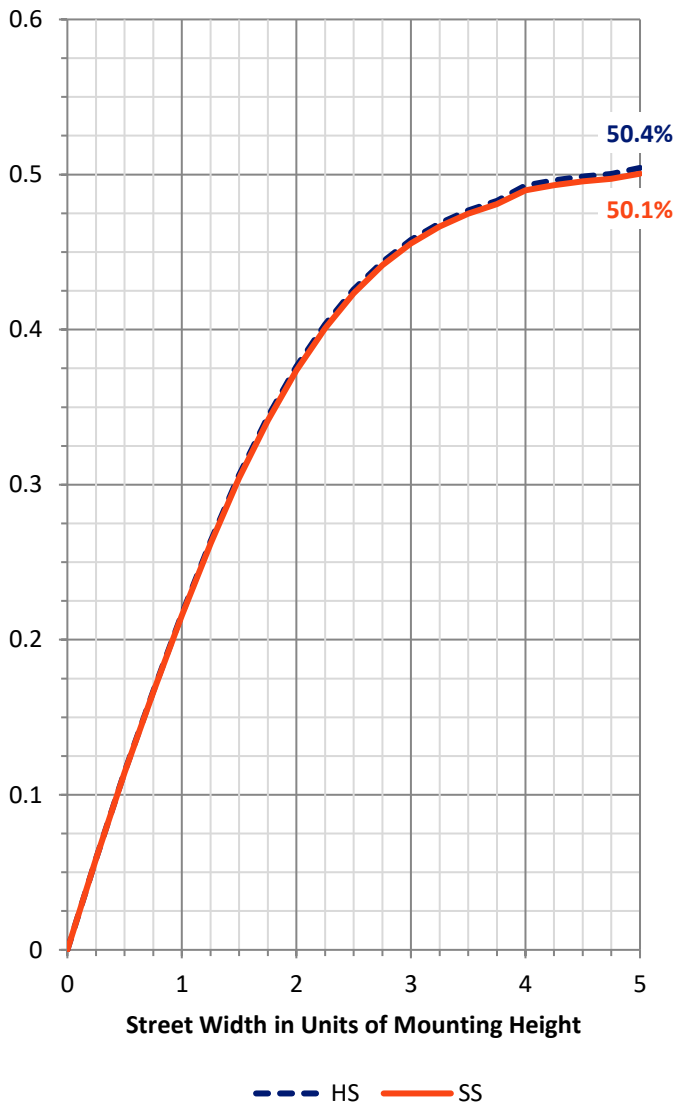
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6146.5	0.0	6146.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6146.5	0.0	6146.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12293.0	0.0	12293.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	0.8
10°-20°	275.8	2.2
20°-30°	470.3	3.8
30°-40°	734.8	6.0
40°-50°	1245.3	10.1
50°-60°	2271.0	18.5
60°-70°	3909.6	31.8
70°-80°	3064.5	24.9
80°-90°	227.2	1.8
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°	12293.0	100.0
0°-180°	12293.0	100.0



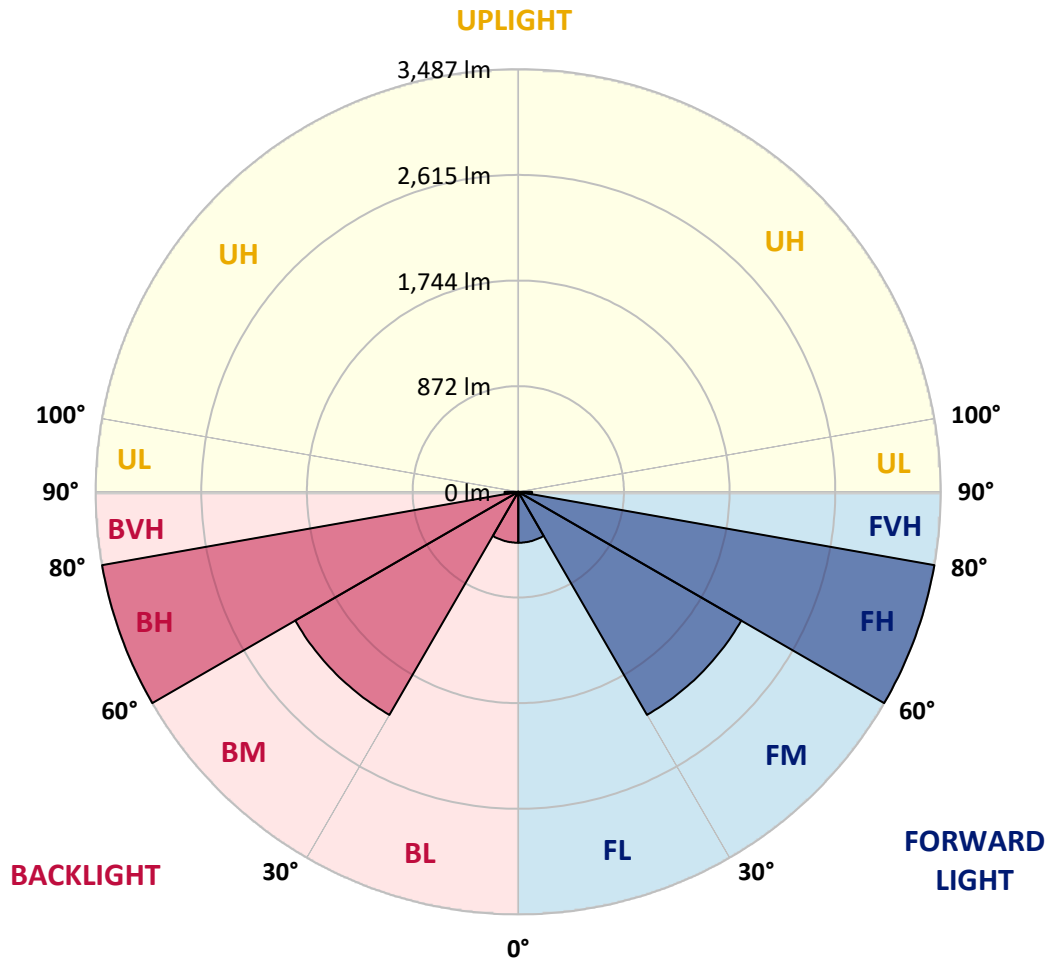
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.3	3.4			
FM (30°-60°)	2125.6	17.3			
FH (60°-80°)	3487.1	28.4			G2/5000
FVH (80°-90°)	113.6	0.9			G2/225
BL (0°-30°)	420.3	3.4	B1/500		
BM (30°-60°)	2125.6	17.3	B2/2500		
BH (60°-80°)	3487.1	28.4	B4/5000		G2/5000
BVH (80°-90°)	113.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1011.7	1011.7	1011.7	1011.7	1011.7	1011.7	1011.7	1011.7	1011.7	1011.7	1011.7
2.5°	1007.2	1008.5	1007.2	1008.1	1006.0	1006.8	1006.8	1006.8	1006.4	1006.8	1006.0
5°	998.3	999.1	997.5	998.3	997.1	998.3	998.7	998.3	997.5	997.9	996.3
7.5°	984.9	985.7	984.5	985.7	984.1	986.1	985.7	984.5	983.3	983.3	981.6
10°	977.6	978.0	974.7	973.5	969.8	970.6	971.9	973.1	974.3	976.7	976.3
12.5°	978.0	978.0	973.1	967.8	962.5	963.7	965.8	970.2	975.1	979.6	980.0
15°	982.0	981.6	974.3	965.8	962.1	965.8	967.0	969.8	977.6	985.3	985.7
17.5°	984.9	984.9	973.5	963.7	963.3	969.0	968.6	969.8	978.4	989.8	990.2
20°	990.2	990.2	975.5	965.0	965.0	971.1	971.5	973.5	982.0	994.6	996.7
22.5°	1002.0	1002.4	986.9	978.4	979.2	982.8	984.1	987.3	995.0	1008.9	1011.3
25°	1018.6	1019.4	1003.6	998.7	1001.5	1008.5	1007.6	1010.1	1018.6	1032.0	1034.5
27.5°	1041.8	1039.8	1025.1	1023.1	1025.9	1030.8	1030.4	1030.8	1037.7	1049.9	1052.8
30°	1071.9	1071.1	1060.5	1061.7	1060.5	1058.9	1059.3	1062.5	1066.2	1076.0	1078.8
32.5°	1101.2	1102.0	1095.5	1101.6	1110.5	1116.6	1107.3	1098.3	1094.3	1099.5	1102.0
35°	1154.0	1156.1	1145.9	1141.8	1154.0	1171.9	1145.5	1130.9	1139.0	1145.9	1147.9
37.5°	1243.9	1245.1	1228.0	1211.8	1202.8	1219.9	1193.5	1194.7	1223.2	1236.2	1235.8
40°	1346.4	1346.8	1335.4	1321.2	1305.7	1309.8	1299.2	1302.5	1321.2	1333.0	1336.2
42.5°	1468.4	1467.2	1449.3	1428.9	1424.5	1428.5	1410.6	1408.2	1429.7	1450.9	1451.3
45°	1626.6	1623.7	1600.5	1578.2	1556.6	1547.7	1543.2	1555.0	1584.7	1604.2	1604.6
47.5°	1796.9	1789.2	1777.0	1759.1	1740.4	1731.5	1724.1	1729.8	1751.4	1759.1	1759.9
50°	1972.2	1973.8	1976.3	1969.3	1962.4	1959.6	1940.5	1929.5	1936.0	1921.8	1919.7
52.5°	2180.0	2183.2	2206.8	2226.8	2238.5	2244.6	2208.5	2170.6	2149.5	2121.8	2113.7
55°	2425.2	2430.5	2465.0	2520.3	2577.3	2607.4	2541.9	2471.1	2405.7	2354.0	2337.4
57.5°	2698.5	2707.8	2755.4	2861.5	2978.2	3049.4	2938.8	2810.3	2683.8	2609.4	2596.4
60°	3018.9	3027.8	3093.7	3245.8	3434.9	3541.8	3374.3	3164.1	3006.7	2935.5	2911.5
62.5°	3400.3	3401.1	3482.0	3659.7	3909.4	4058.2	3831.3	3550.4	3388.1	3302.3	3279.1
65°	3810.6	3812.6	3896.4	4088.3	4346.6	4508.4	4252.2	3959.4	3761.0	3634.5	3616.6
67.5°	4100.5	4109.1	4197.3	4428.3	4669.8	4815.8	4550.7	4219.7	3990.3	3839.5	3824.4
70°	4054.2	4087.5	4191.2	4460.8	4796.7	5004.9	4599.1	4188.8	3886.2	3708.1	3695.5
72.5°	3535.7	3599.6	3737.8	4091.6	4628.8	4915.4	4335.2	3751.6	3409.3	3257.6	3234.8
75°	2407.7	2511.4	2720.0	3230.3	3954.6	4255.9	3649.6	2991.2	2669.2	2459.3	2443.9
77.5°	1073.5	1097.1	1361.4	1949.0	2728.9	3056.3	2651.7	1956.7	1468.8	1171.5	1108.9
80°	299.3	302.9	404.2	725.8	1365.9	1795.7	1466.3	762.4	428.6	302.1	284.6
82.5°	95.2	103.3	126.1	188.3	459.1	819.4	471.3	203.3	144.8	115.5	104.1
85°	46.4	46.0	63.8	76.4	117.1	181.4	124.8	94.3	82.5	54.9	49.6
87.5°	19.5	19.9	29.7	26.8	34.2	29.3	40.3	42.3	44.3	24.4	21.1
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)