

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: P382819

Luminaire Tested: **GLEON-SA1D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

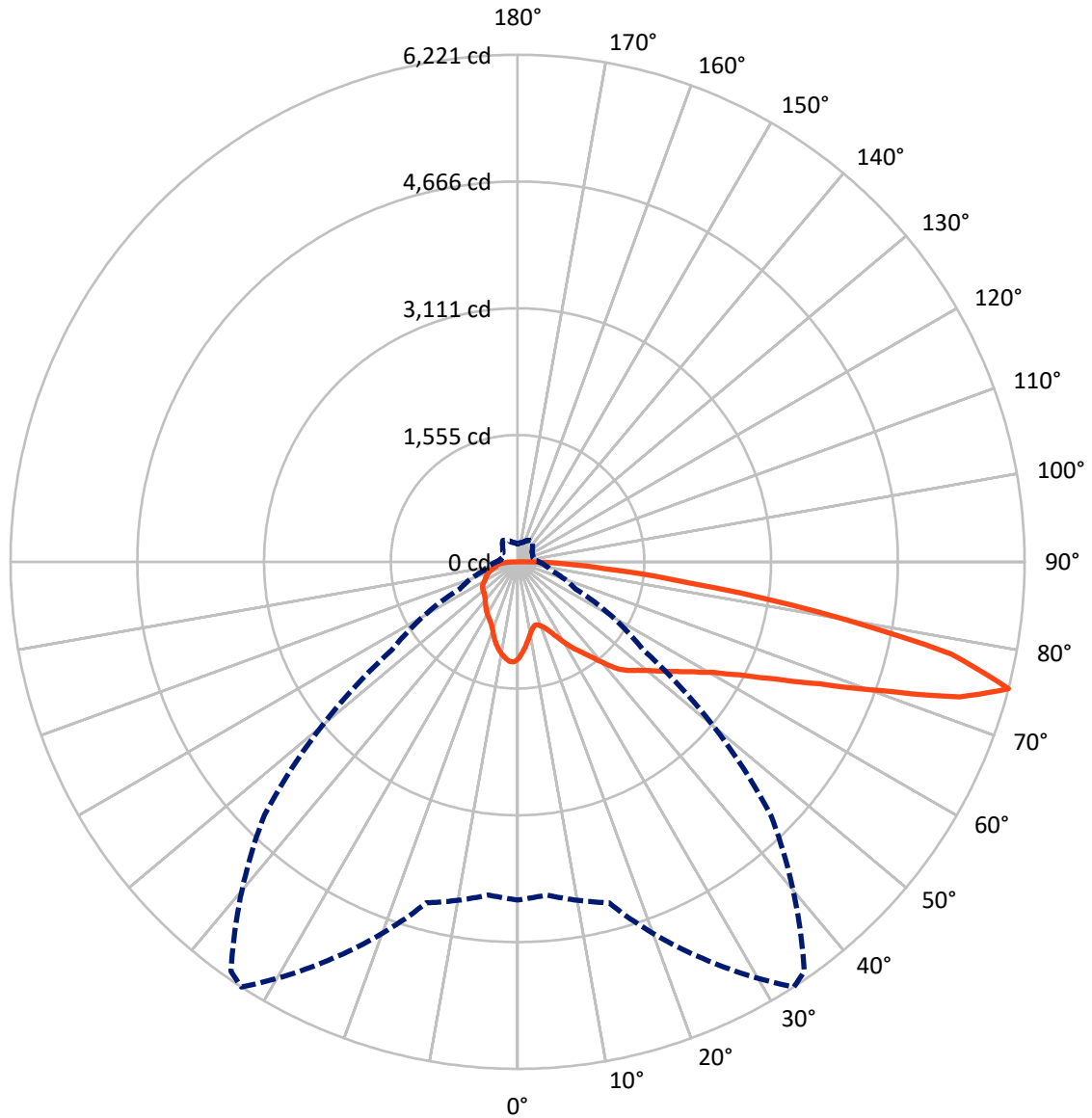
Lumens per Lamp: N/A
Luminaire Lumens: 7613.5 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 67
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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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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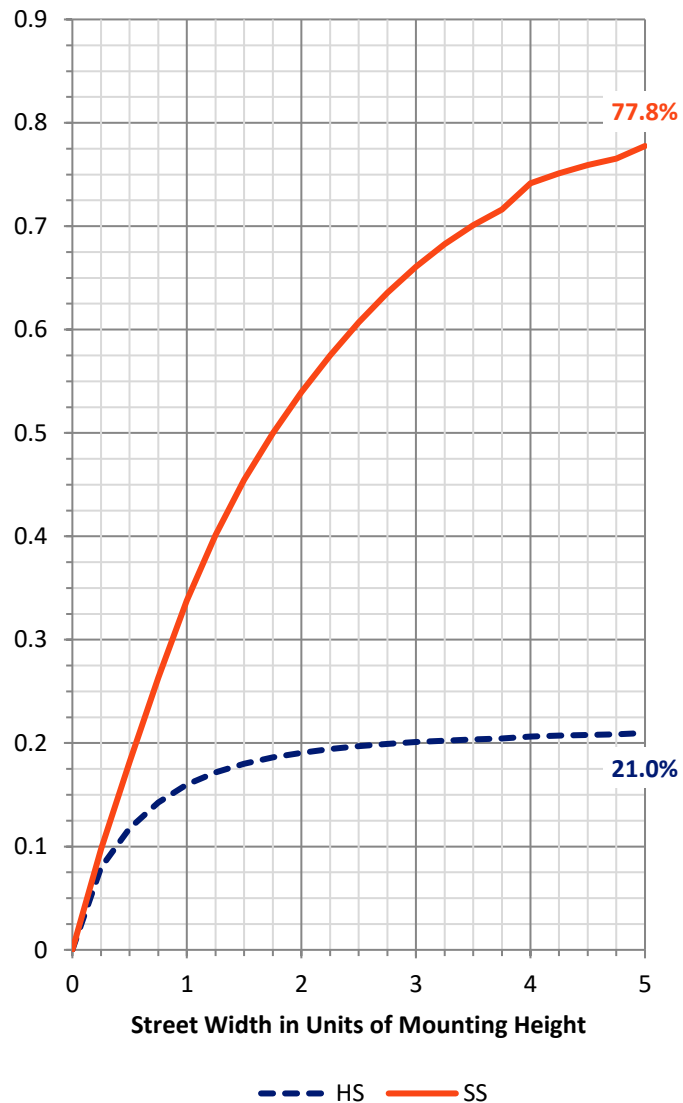
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.8	0.0	1634.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5978.7	0.0	5978.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	7613.5	0.0	7613.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.4
10°-20°	291.5	3.8
20°-30°	476.0	6.3
30°-40°	708.9	9.3
40°-50°	1016.8	13.4
50°-60°	1395.9	18.3
60°-70°	1747.7	23.0
70°-80°	1581.0	20.8
80°-90°	288.0	3.8
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°	7613.5	100.0
0°-180°	7613.5	100.0

Coefficient of Utilization



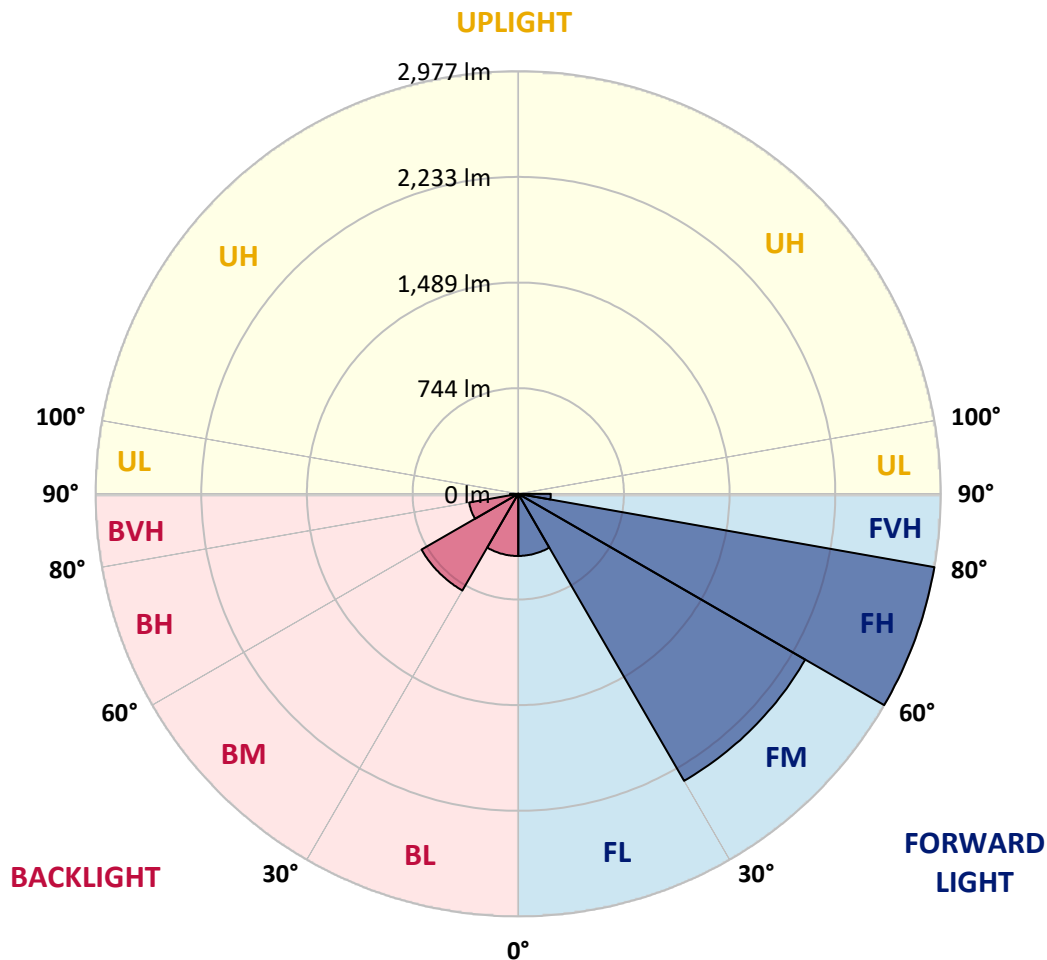
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.3	5.7			
FM (30°-60°)	2334.9	30.7			
FH (60°-80°)	2977.2	39.1			G2/5000
FVH (80°-90°)	229.4	3.0			G3/500
BL (0°-30°)	437.9	5.8	B1/500		
BM (30°-60°)	786.8	10.3	B1/1000		
BH (60°-80°)	351.5	4.6	B1/500		G1/500
BVH (80°-90°)	58.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1
2.5°	1105.1	1100.9	1108.7	1109.8	1116.6	1119.3	1128.8	1143.5	1155.6	1169.6	1182.1
5°	1004.9	1002.0	1013.1	1021.0	1035.9	1042.2	1064.6	1095.9	1123.7	1155.3	1184.0
7.5°	909.7	908.1	920.5	938.3	955.7	964.4	1003.1	1048.5	1095.1	1146.1	1190.1
10°	829.4	829.0	840.8	858.4	883.9	893.6	943.7	1003.6	1068.8	1139.0	1200.3
12.5°	784.5	786.3	791.9	806.6	830.3	840.0	895.5	966.0	1046.7	1136.7	1215.3
15°	795.5	798.4	789.0	788.5	805.3	812.9	864.9	939.2	1030.9	1140.6	1237.1
17.5°	842.6	843.1	818.2	802.4	812.7	816.6	855.5	923.9	1021.7	1149.5	1264.5
20°	908.9	907.6	863.4	837.1	842.6	843.7	868.9	924.2	1021.0	1165.1	1300.0
22.5°	996.8	987.0	927.5	891.8	890.5	888.9	903.4	943.7	1032.5	1190.3	1342.3
25°	1111.4	1102.2	1020.4	971.5	961.0	957.1	959.1	985.2	1055.4	1217.3	1389.7
27.5°	1239.0	1222.9	1144.0	1074.8	1053.0	1047.5	1034.9	1043.8	1080.4	1243.4	1445.9
30°	1345.7	1337.1	1268.1	1186.1	1160.3	1152.4	1119.3	1109.6	1116.4	1278.9	1516.9
32.5°	1405.4	1399.7	1357.8	1291.6	1267.6	1256.6	1209.8	1190.3	1174.2	1334.9	1613.2
35°	1477.7	1474.1	1448.8	1400.7	1365.2	1353.6	1317.3	1297.1	1255.8	1412.0	1737.6
37.5°	1569.8	1565.8	1566.4	1527.5	1485.1	1474.4	1450.4	1429.1	1361.5	1513.3	1872.8
40°	1673.9	1666.4	1663.5	1661.6	1634.8	1628.7	1616.0	1587.2	1494.0	1634.2	2006.1
42.5°	1830.7	1803.6	1745.7	1767.6	1794.2	1791.0	1801.2	1759.7	1641.3	1777.3	2136.3
45°	1981.9	1937.4	1837.6	1842.2	1900.4	1918.0	1994.8	1965.4	1801.0	1934.1	2270.9
47.5°	2050.8	2017.2	1932.2	1932.5	1990.1	2026.6	2194.9	2173.9	1968.7	2112.1	2435.3
50°	2127.8	2094.2	2017.9	2046.6	2096.8	2135.8	2388.2	2377.4	2128.4	2307.0	2632.3
52.5°	2212.1	2154.9	2106.6	2157.8	2228.4	2273.5	2581.8	2552.3	2274.8	2503.2	2858.7
55°	2213.1	2197.5	2234.4	2272.0	2377.4	2432.9	2784.6	2706.7	2394.3	2695.9	3043.1
57.5°	2339.0	2313.8	2391.9	2409.3	2547.0	2609.6	2986.3	2841.1	2515.7	2843.7	3142.5
60°	2505.8	2484.3	2548.2	2593.9	2756.9	2840.6	3201.6	2979.2	2611.2	2955.2	3137.7
62.5°	2793.8	2769.3	2768.6	2832.6	3052.3	3149.6	3443.4	3114.6	2649.1	2977.3	3003.9
65°	3215.3	3176.4	3103.1	3133.5	3460.1	3557.2	3713.4	3212.7	2599.1	2859.0	2659.1
67.5°	3625.6	3624.3	3534.1	3596.7	3998.8	4076.6	4021.1	3222.4	2443.2	2446.9	2047.4
70°	4034.5	4039.8	4024.6	4242.4	4726.5	4807.5	4348.8	3091.7	2092.6	1767.1	1226.6
72.5°	4358.5	4357.2	4434.1	4995.5	5670.9	5652.7	4624.9	2695.7	1502.5	953.9	586.2
75°	4148.7	4102.9	4331.7	5368.4	6221.3	6132.8	4390.1	1880.4	779.8	434.2	315.6
77.5°	2706.0	2749.3	3085.2	4434.8	5441.8	5334.0	3220.8	877.3	367.4	284.8	228.8
80°	979.9	1025.6	1444.6	2512.1	3749.2	3731.6	1586.1	360.6	248.5	215.1	166.7
82.5°	337.1	354.0	569.9	1115.6	2116.8	2195.8	596.7	204.8	180.7	152.5	114.1
85°	132.3	151.5	260.6	536.8	1067.7	1075.7	241.6	122.6	125.7	100.0	62.6
87.5°	50.2	61.0	124.6	249.3	487.6	447.9	86.5	58.4	71.5	59.4	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1	1190.1
2.5°	1191.9	1197.4	1209.0	1216.9	1225.3	1227.7	1228.7	1230.8	1232.9	1232.2	1232.3
5°	1199.3	1210.0	1228.7	1236.6	1240.3	1236.1	1227.9	1221.4	1216.6	1214.0	1213.2
7.5°	1211.4	1226.6	1246.6	1245.3	1236.8	1218.2	1197.1	1181.4	1168.3	1163.5	1160.8
10°	1227.4	1245.3	1259.2	1244.2	1219.8	1187.4	1155.9	1131.4	1111.7	1104.1	1102.8
12.5°	1247.9	1266.1	1268.7	1236.8	1196.4	1152.1	1109.3	1077.0	1047.5	1038.0	1035.9
15°	1274.5	1291.6	1275.3	1224.0	1167.4	1108.0	1052.5	1008.6	977.6	966.0	961.7
17.5°	1302.3	1318.6	1276.6	1202.6	1129.6	1055.6	985.9	941.0	905.5	892.0	890.5
20°	1335.7	1343.1	1271.0	1172.2	1077.5	987.8	914.4	872.1	853.1	843.7	842.6
22.5°	1377.0	1369.1	1258.4	1130.9	1011.5	909.5	849.8	830.0	825.3	823.2	824.0
25°	1420.7	1396.5	1239.7	1077.0	928.1	831.0	802.4	807.9	814.3	813.4	813.4
27.5°	1468.8	1424.3	1211.1	1005.4	835.8	766.8	770.3	790.5	800.0	799.7	799.5
30°	1530.6	1455.9	1174.5	919.4	749.5	721.7	742.4	767.1	780.1	779.5	779.8
32.5°	1606.6	1490.7	1124.8	823.4	687.2	688.2	712.2	736.7	751.7	750.4	750.5
35°	1695.5	1529.6	1057.5	728.7	645.9	661.7	680.6	697.7	711.9	710.1	708.3
37.5°	1792.3	1567.7	968.1	644.1	612.2	637.0	652.7	655.6	662.2	657.5	654.0
40°	1884.3	1596.9	852.9	574.7	578.3	615.9	626.2	614.6	602.8	601.2	596.5
42.5°	1964.5	1606.6	736.4	519.2	542.5	593.9	600.1	576.0	554.6	544.7	540.5
45°	2049.2	1610.0	627.8	472.6	508.1	574.1	580.9	548.6	518.6	497.1	490.0
47.5°	2160.0	1634.8	543.4	438.1	481.8	561.0	570.7	526.8	487.9	457.1	450.5
50°	2304.8	1683.7	474.7	411.8	464.7	552.3	563.3	505.5	462.6	425.5	418.9
52.5°	2465.8	1728.7	419.2	390.5	448.2	537.0	553.9	490.2	438.9	396.4	389.2
55°	2578.3	1694.2	374.5	368.4	426.6	515.2	540.7	477.3	405.0	368.0	361.6
57.5°	2599.9	1576.4	340.6	345.6	400.6	487.9	520.5	448.6	386.6	355.6	349.0
60°	2541.0	1412.2	315.3	324.6	372.6	453.4	482.6	428.4	369.0	342.4	336.8
62.5°	2393.0	1244.2	296.7	305.6	346.6	418.5	458.9	407.1	351.1	327.4	321.9
65°	2093.9	1044.6	278.8	288.8	322.4	388.2	437.6	387.4	333.5	315.3	310.1
67.5°	1580.6	782.4	262.0	270.9	300.9	361.9	414.4	368.0	316.4	304.8	298.5
70°	930.7	490.0	242.8	252.2	278.3	334.5	389.8	346.6	295.1	289.8	281.7
72.5°	433.2	294.8	220.9	230.1	249.8	298.0	357.9	318.8	269.9	258.2	247.2
75°	258.5	215.7	195.2	203.3	217.2	259.1	317.9	290.4	245.9	230.7	219.1
77.5°	193.3	164.9	166.7	175.4	186.7	226.7	281.7	268.0	227.5	215.7	207.7
80°	139.1	125.2	136.0	145.4	157.2	206.2	269.9	247.7	205.7	189.8	182.5
82.5°	92.9	90.0	102.3	112.1	123.6	180.4	253.6	217.0	175.7	155.7	139.4
85°	51.3	54.2	68.9	73.1	83.1	127.1	207.7	174.4	132.3	106.5	101.8
87.5°	21.3	25.0	37.1	35.8	44.2	75.7	136.8	105.2	84.1	62.9	48.9
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)