

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: P269595

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33687.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

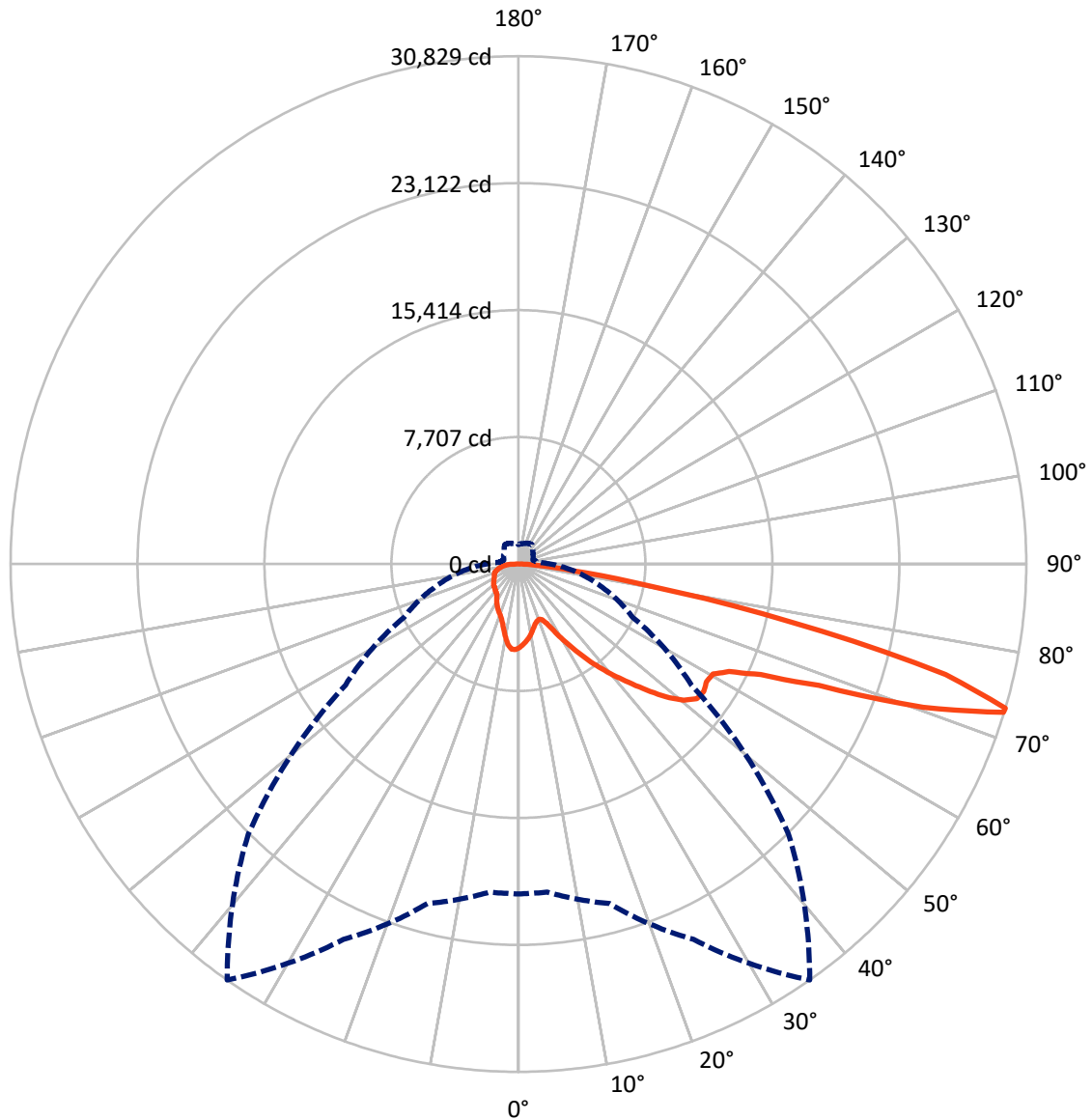
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6425.1	0.0	6425.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27262.3	0.0	27262.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	33687.4	0.0	33687.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	1.4
10°-20°	1148.8	3.4
20°-30°	1857.2	5.5
30°-40°	3114.3	9.2
40°-50°	4800.6	14.3
50°-60°	6440.5	19.1
60°-70°	8580.0	25.5
70°-80°	6544.0	19.4
80°-90°	741.7	2.2
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°	33687.4	100.0
0°-180°	33687.4	100.0

Coefficient of Utilization



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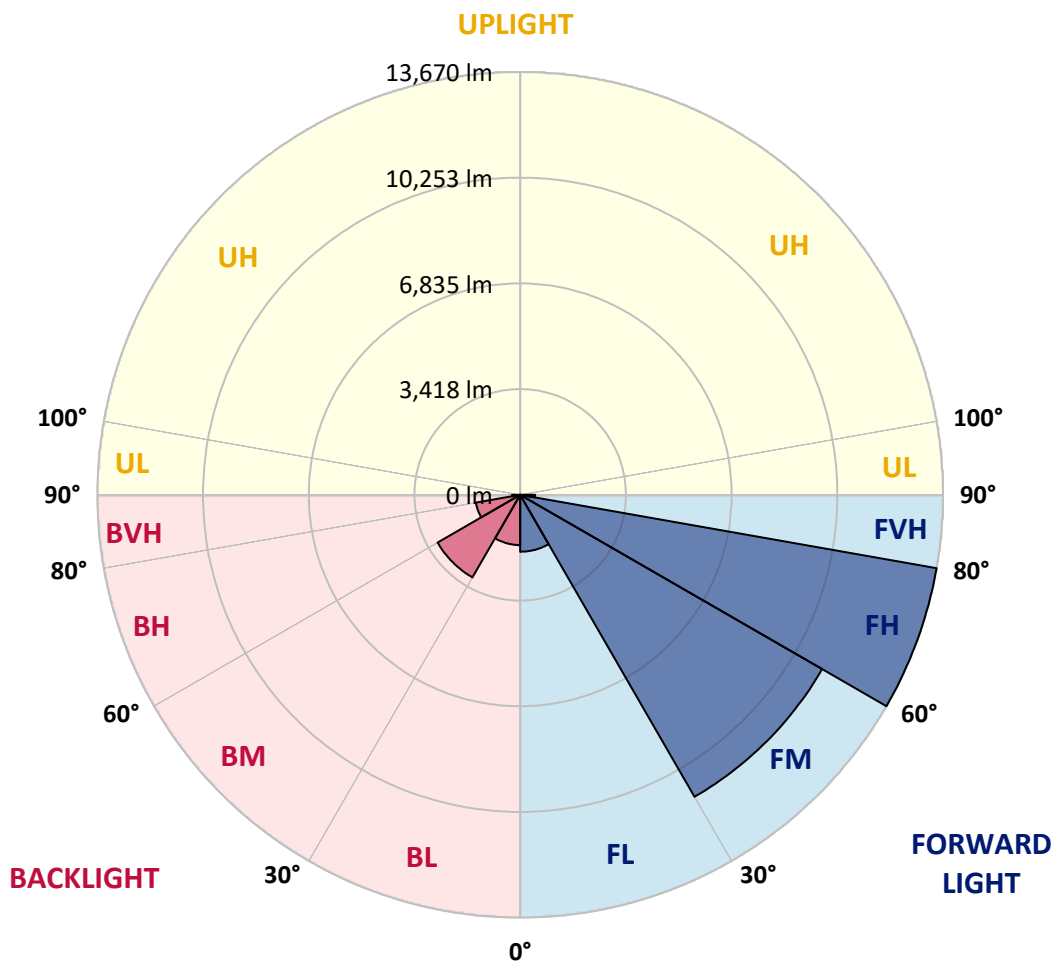
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1840.5	5.5			
FM	(30°-60°)	11272.0	33.5			
FH	(60°-80°)	13670.3	40.6			G5
FVH	(80°-90°)	479.5	1.4			G3/500
BL	(0°-30°)	1625.9	4.8	B3/2500		
BM	(30°-60°)	3083.3	9.2	B3/5000		
BH	(60°-80°)	1453.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	262.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4
2.5°	4883.8	4893.5	4882.3	4896.8	4921.1	4947.0	4964.8	4990.7	5019.8	5060.2	5069.9
5°	4654.2	4668.8	4668.8	4694.6	4741.6	4783.6	4822.5	4864.4	4925.9	4995.6	5023.1
7.5°	4401.9	4409.9	4424.4	4463.3	4531.2	4591.1	4646.0	4714.0	4798.1	4890.4	4938.9
10°	4097.7	4108.9	4131.7	4186.6	4278.8	4361.4	4440.6	4534.5	4641.3	4756.0	4817.5
12.5°	3882.6	3879.3	3889.0	3929.5	4010.4	4110.6	4225.4	4345.2	4476.3	4610.6	4684.9
15°	3809.7	3791.9	3754.7	3745.0	3788.7	3889.0	4021.6	4168.9	4325.8	4487.6	4579.7
17.5°	3854.9	3824.3	3722.3	3647.9	3641.5	3717.5	3858.2	4023.2	4204.4	4401.9	4516.7
20°	4139.7	4066.9	3816.2	3643.0	3583.2	3620.4	3743.3	3918.0	4131.7	4393.7	4540.9
22.5°	4820.8	4714.0	4181.8	3859.8	3657.7	3612.4	3704.6	3890.6	4139.7	4494.0	4681.6
25°	5812.5	5660.4	4809.4	4400.2	3982.8	3741.8	3762.8	3953.7	4254.6	4726.9	4953.4
27.5°	6595.4	6496.7	5629.7	5162.1	4574.9	4091.2	3952.1	4112.3	4489.2	5108.8	5340.1
30°	7061.3	7001.5	6506.5	6026.0	5330.4	4647.7	4314.4	4409.9	4856.3	5637.8	5828.7
32.5°	7601.6	7566.1	7323.4	6881.7	6145.7	5379.0	4888.8	4854.8	5348.1	6273.6	6360.9
35°	8161.5	8150.1	8007.8	7690.6	7020.9	6343.0	5650.7	5420.9	5883.5	6933.5	6878.5
37.5°	8682.3	8662.9	8580.3	8395.9	7936.4	7378.4	6427.2	6001.8	6461.1	7564.4	7320.2
40°	9641.6	9489.5	9206.4	9067.3	8861.8	8250.4	7043.5	6543.7	7059.7	8166.2	7702.0
42.5°	10811.2	10563.7	10036.4	9845.5	9816.3	8937.9	7464.1	7069.4	7663.1	8763.1	8077.2
45°	11731.7	11498.8	11044.1	10803.0	10909.8	9560.8	7886.4	7630.7	8284.3	9389.3	8463.9
47.5°	12713.6	12348.0	11746.1	11819.0	12052.0	10149.5	8316.7	8234.1	8965.4	10089.8	8944.3
50°	12749.3	12469.4	12205.6	12640.8	13003.1	10691.4	8855.3	8866.7	9798.5	10971.3	9583.4
52.5°	12009.9	11950.1	12369.0	13053.4	13575.8	11120.2	9468.5	9520.2	10864.6	11984.0	10285.5
55°	11751.1	11683.1	12166.9	12909.4	13653.5	11474.4	10133.4	10227.3	12153.9	13051.7	10969.7
57.5°	12382.0	12231.5	12263.9	12841.5	13464.2	11862.7	10858.2	11047.4	13554.9	13985.2	11409.7
60°	14145.3	13823.4	13211.8	13197.3	13566.2	12445.1	11696.0	11927.3	15010.8	14431.6	11238.2
62.5°	16618.7	16296.8	15151.5	14405.7	14350.8	13405.9	12724.9	12786.5	15852.0	13826.6	10191.6
65°	19296.1	19008.1	17728.5	16675.3	16167.4	14997.8	13920.5	13169.8	15577.0	12162.0	8360.3
67.5°	22546.1	22237.2	21137.1	20164.9	19676.3	17566.7	14760.1	12802.6	13831.5	9421.6	6009.8
70°	24818.9	24503.4	24069.9	24857.8	26053.3	21272.9	14868.3	11309.4	10330.7	6262.2	3617.2
72.5°	21853.6	21706.5	22497.5	25815.5	30794.7	23521.6	13439.9	8234.1	6000.0	3324.4	2093.3
73°	20022.4	19990.2	21339.2	25144.1	30828.8	23175.4	12814.0	7653.4	5145.9	2941.1	1913.7
75°	9041.4	9301.9	12259.0	19205.6	26784.5	19097.1	9018.8	4390.5	2907.1	2031.8	1444.7
77.5°	2172.6	2263.2	3835.7	9120.8	16914.8	11380.5	4086.3	2170.9	1858.8	1435.0	1054.8
80°	925.3	956.1	1477.0	3369.7	7964.1	4583.1	1882.9	1454.4	1286.1	1001.4	739.2
82.5°	514.4	546.8	837.9	1528.7	3214.3	1562.7	1148.6	1012.7	846.1	603.4	480.5
85°	291.2	308.9	490.1	854.2	1362.1	627.6	687.6	673.0	477.2	310.6	236.2
87.5°	137.5	148.8	236.2	396.3	533.9	245.9	349.4	385.1	299.2	189.3	123.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4	5084.4
2.5°	5081.3	5110.4	5144.4	5162.1	5178.3	5197.8	5217.1	5217.1	5220.4	5221.9
5°	5045.6	5105.4	5158.8	5181.6	5186.4	5186.4	5181.6	5155.6	5133.1	5142.6
7.5°	4971.2	5058.5	5103.9	5095.7	5034.3	4963.1	4903.3	4830.5	4793.3	4786.8
10°	4864.4	4964.8	4972.8	4892.0	4739.8	4587.9	4461.6	4338.8	4280.5	4266.0
12.5°	4746.4	4838.6	4786.8	4620.3	4376.0	4154.3	3994.1	3869.5	3814.6	3800.0
15°	4651.0	4714.0	4583.1	4320.8	4013.5	3779.0	3646.3	3554.1	3515.2	3504.0
17.5°	4600.8	4613.8	4374.2	4020.1	3693.2	3497.6	3414.9	3371.2	3356.7	3348.6
20°	4625.1	4534.5	4175.3	3740.2	3431.2	3293.6	3274.2	3263.0	3259.7	3254.9
22.5°	4746.4	4510.2	3992.4	3474.9	3201.5	3141.6	3157.8	3156.1	3153.0	3149.6
25°	4963.1	4531.2	3814.6	3222.5	3009.0	2995.9	3025.1	3025.1	3012.1	3012.1
27.5°	5249.4	4574.9	3615.6	2983.0	2834.2	2835.9	2858.4	2851.9	2837.4	2827.8
30°	5598.9	4602.3	3382.7	2767.9	2670.8	2664.4	2670.8	2643.4	2599.7	2596.5
32.5°	5956.4	4568.4	3112.4	2577.0	2497.7	2483.2	2478.3	2439.4	2389.3	2374.8
35°	6280.1	4443.8	2837.4	2425.0	2332.8	2300.4	2323.0	2310.1	2264.7	2253.5
37.5°	6516.1	4212.5	2590.0	2290.7	2214.6	2206.5	2221.1	2226.0	2172.6	2161.2
40°	6674.6	3898.6	2378.1	2177.4	2192.0	2161.2	2112.8	2078.8	2062.6	2057.7
42.5°	6802.4	3571.9	2200.0	2124.0	2196.8	2108.0	2002.7	1947.7	1976.8	1989.7
45°	6949.6	3253.2	2051.3	2057.7	2172.6	2046.3	1926.7	1873.3	1884.6	1887.9
47.5°	7151.9	2865.0	1891.1	1950.9	2091.8	2004.4	1879.9	1803.7	1750.3	1726.2
50°	7431.8	2405.5	1724.4	1831.3	2012.5	1973.5	1807.0	1726.2	1627.4	1604.8
52.5°	7625.9	1976.8	1586.9	1730.9	1941.2	1912.1	1748.7	1643.5	1540.1	1520.7
55°	7520.8	1642.0	1467.3	1619.4	1847.5	1836.0	1700.2	1559.5	1478.6	1462.4
57.5°	6995.0	1430.0	1375.0	1514.2	1732.7	1771.4	1635.5	1488.3	1430.0	1418.8
60°	5992.1	1297.4	1316.8	1442.9	1638.8	1706.7	1570.7	1449.4	1410.7	1402.6
62.5°	4649.3	1208.4	1273.2	1391.2	1565.9	1661.3	1535.3	1444.7	1430.0	1420.4
65°	3330.8	1137.3	1226.2	1339.5	1499.6	1619.4	1522.3	1438.1	1441.4	1433.2
67.5°	2263.2	1074.2	1169.7	1281.3	1435.0	1582.2	1504.5	1415.5	1456.0	1446.2
70°	1583.7	1012.7	1103.3	1206.9	1354.0	1530.4	1472.1	1381.6	1378.3	1339.5
72.5°	1236.0	931.8	1012.7	1103.3	1250.5	1457.6	1407.5	1305.4	1252.1	1211.6
73°	1179.4	912.4	990.0	1080.7	1227.9	1439.8	1389.6	1284.4	1224.6	1187.4
75°	975.5	828.2	899.5	980.3	1130.7	1355.6	1302.3	1189.0	1113.0	1090.4
77.5°	766.9	708.6	776.6	849.3	996.5	1232.7	1172.8	1064.4	1022.5	1003.0
80°	567.8	587.2	647.0	711.7	863.9	1101.6	1048.3	939.8	1127.6	1080.7
82.5°	399.6	444.9	499.8	558.0	724.8	973.9	909.2	797.5	825.1	685.9
85°	236.2	291.2	343.0	393.1	522.5	807.2	750.7	635.8	520.8	496.7
87.5°	137.5	161.8	176.3	228.1	359.1	608.2	529.0	470.7	270.2	182.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)