

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: P323028

Luminaire Tested: **GLEON-SA4A-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10828 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

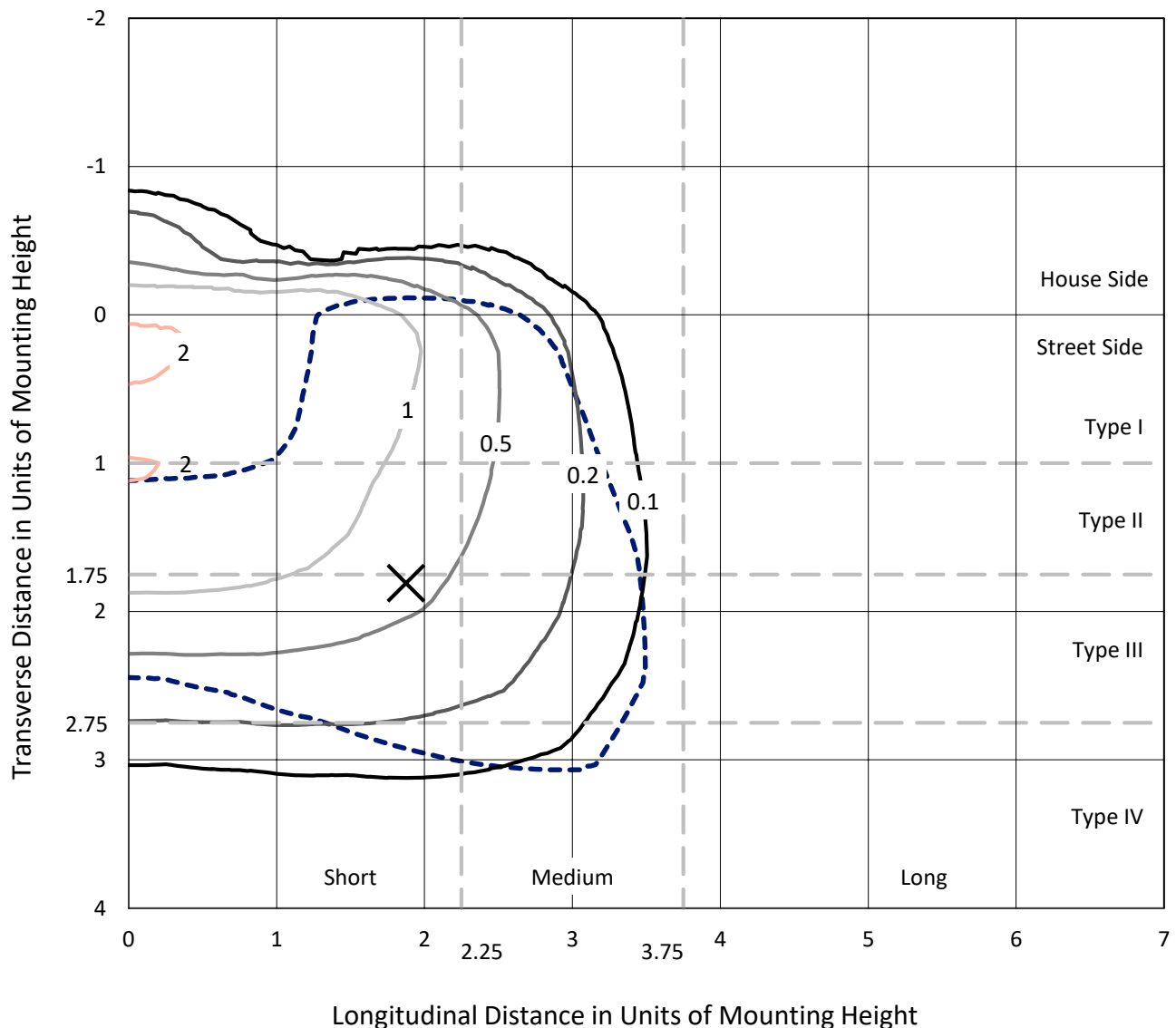
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

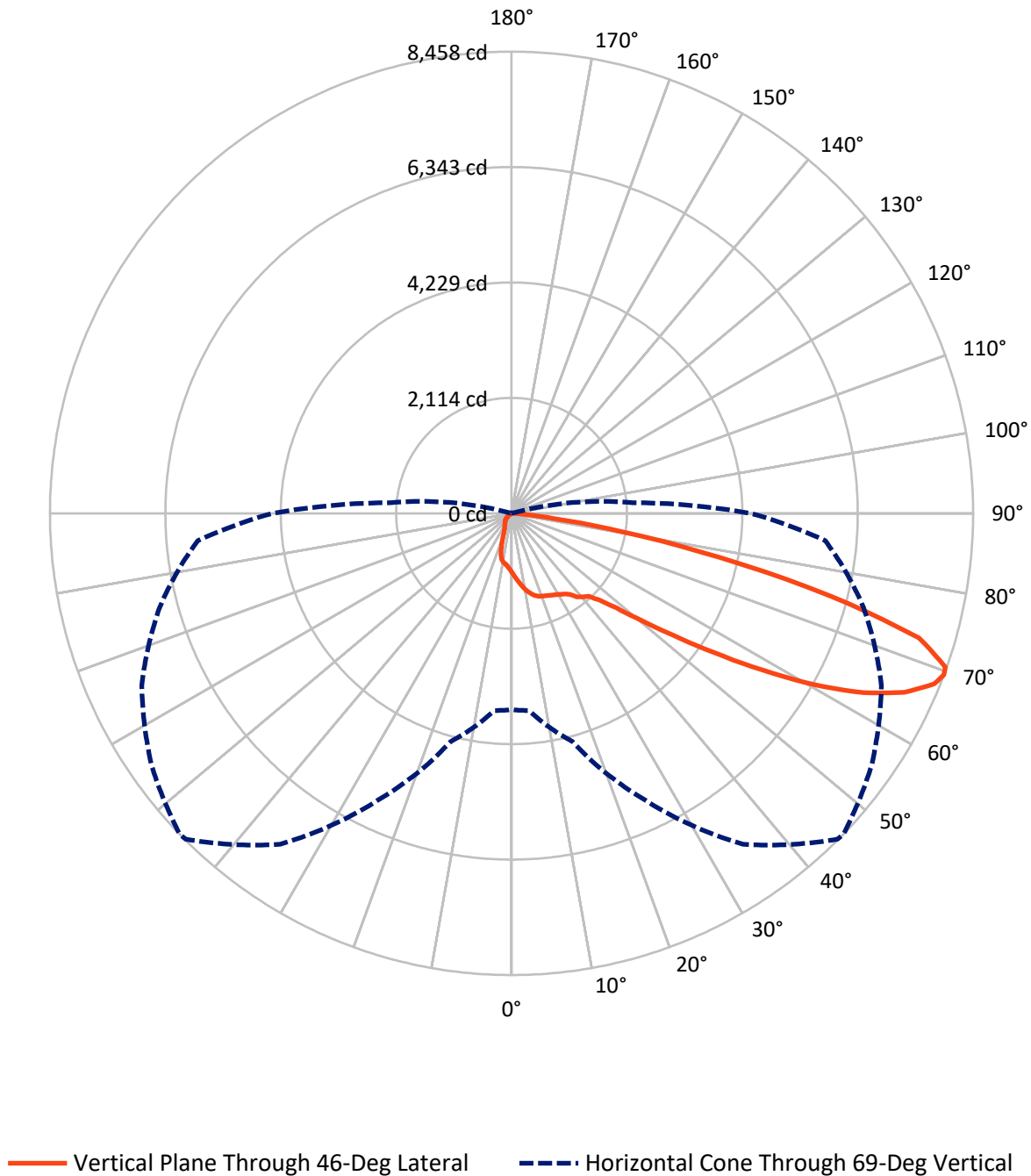
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.3	0.0	1111.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9716.8	0.0	9716.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	10828.0	0.0	10828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	1.0
10°-20°	327.6	3.0
20°-30°	515.2	4.8
30°-40°	738.8	6.8
40°-50°	1277.0	11.8
50°-60°	2522.8	23.3
60°-70°	3525.8	32.6
70°-80°	1703.3	15.7
80°-90°	109.5	1.0
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°	10828.0	100.0
0°-180°	10828.0	100.0

Coefficient of Utilization



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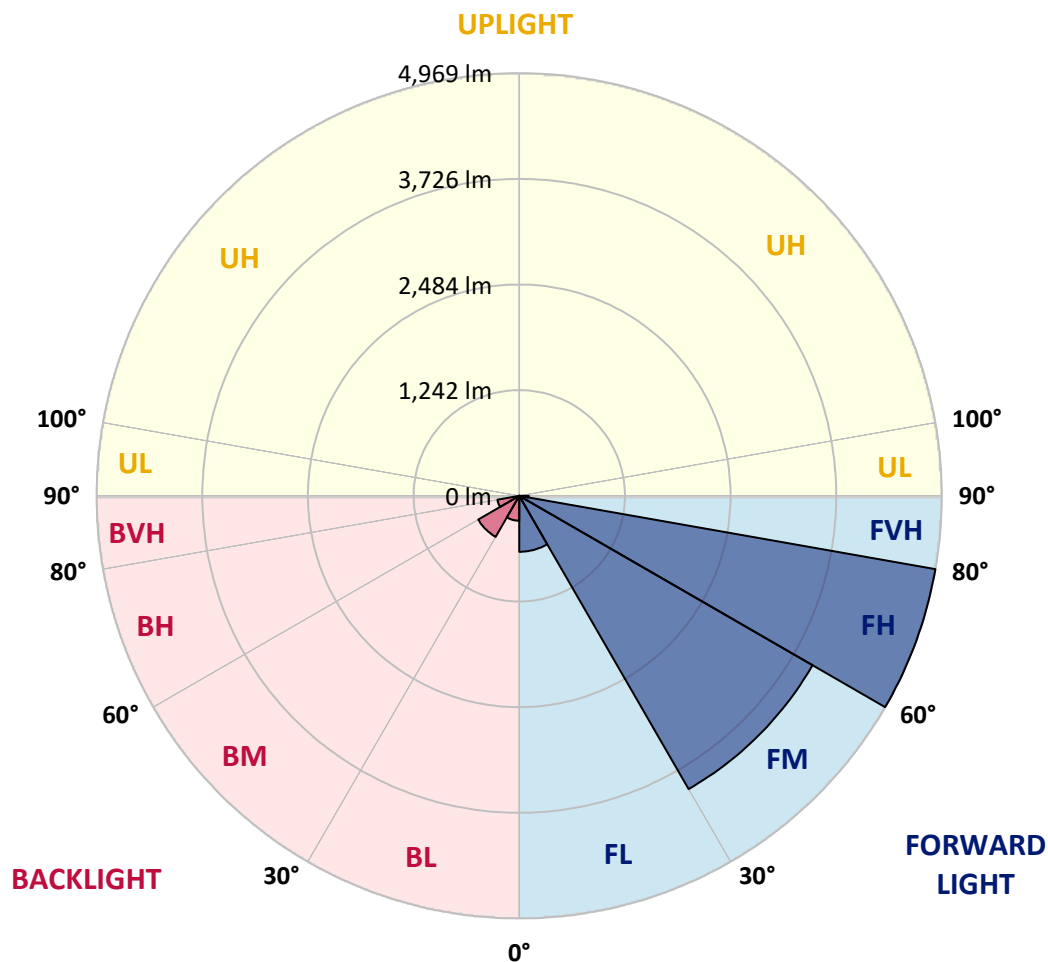
CATALOG NUMBER: GLEON-SA4A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.9	6.1			
FM	(30°-60°)	3981.7	36.8			
FH	(60°-80°)	4968.6	45.9			G2/5000
FVH	(80°-90°)	108.6	1.0			G2/225
BL	(0°-30°)	292.9	2.7	B1/500		
BM	(30°-60°)	556.9	5.1	B1/1000		
BH	(60°-80°)	260.6	2.4	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CATALOG NUMBER: GLEON-SA4A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1205.2	1203.7	1196.6	1193.6	1176.3	1166.2	1162.1	1149.4	1131.1	1112.8	1092.5
5°	1342.3	1341.8	1328.6	1315.9	1283.4	1253.0	1247.4	1217.9	1176.8	1138.2	1099.6
7.5°	1482.4	1475.8	1462.6	1438.3	1391.1	1342.3	1337.8	1296.1	1237.7	1181.9	1126.6
10°	1601.2	1597.2	1579.9	1542.9	1487.5	1432.2	1426.6	1375.3	1309.3	1240.8	1170.2
12.5°	1693.6	1690.6	1667.7	1621.5	1562.7	1505.3	1497.7	1452.0	1381.4	1304.8	1221.5
15°	1750.0	1748.5	1720.5	1671.3	1613.4	1563.7	1557.1	1517.0	1451.5	1371.3	1277.3
17.5°	1763.2	1763.7	1734.8	1685.0	1637.3	1601.7	1596.7	1566.2	1511.4	1431.7	1333.2
20°	1733.7	1739.8	1713.9	1670.8	1641.3	1622.6	1618.5	1600.2	1554.0	1478.9	1377.9
22.5°	1692.1	1695.2	1677.4	1648.5	1636.3	1639.8	1637.8	1627.6	1588.5	1519.5	1422.0
25°	1666.7	1666.7	1656.1	1631.7	1639.8	1661.7	1662.2	1660.1	1629.2	1569.3	1475.8
27.5°	1665.7	1662.7	1650.5	1632.2	1654.5	1688.1	1690.1	1703.8	1684.5	1629.7	1542.9
30°	1706.3	1702.8	1676.9	1653.0	1681.5	1717.5	1722.6	1752.5	1742.9	1695.2	1617.5
32.5°	1801.3	1788.6	1731.2	1692.1	1713.4	1756.6	1763.2	1810.9	1826.1	1775.9	1689.6
35°	1931.2	1891.1	1808.4	1766.2	1768.3	1813.5	1819.5	1889.6	1934.8	1850.0	1745.4
37.5°	2110.5	2090.7	1956.1	1843.4	1852.5	1921.1	1938.9	2015.0	2002.3	1890.6	1808.9
40°	2503.4	2472.4	2329.3	2059.7	1933.3	2008.4	2014.0	2054.6	2055.6	1982.5	1940.9
42.5°	3038.5	3025.8	2875.0	2452.1	2092.2	2066.8	2076.9	2145.5	2222.1	2176.5	2174.4
45°	3631.0	3624.4	3464.4	2973.0	2413.5	2258.2	2270.9	2362.8	2509.5	2519.6	2584.1
47.5°	4107.7	4104.6	4012.8	3554.3	2905.5	2582.6	2586.7	2684.1	2942.0	3069.5	3172.5
50°	4542.3	4557.0	4484.4	4183.3	3575.6	3090.8	3081.1	3146.1	3560.4	3769.1	3897.0
52.5°	5146.4	5167.2	4963.6	4770.2	4278.8	3721.3	3713.7	3781.8	4303.7	4460.0	4482.9
55°	5680.0	5644.5	5483.5	5427.7	5136.3	4500.1	4498.1	4558.0	5022.5	5089.0	5131.2
57.5°	5915.6	5901.9	5979.5	6107.5	6034.4	5420.6	5416.0	5370.3	5665.8	5672.9	5802.3
60°	6064.3	6081.1	6319.2	6713.6	6895.9	6411.1	6381.6	6102.9	6280.1	6264.3	6402.9
62.5°	5952.6	5985.6	6414.1	7071.6	7540.7	7275.6	7234.0	6774.1	6805.0	6750.7	6879.7
65°	5359.6	5410.9	6113.0	7004.0	7860.5	7951.4	7909.2	7366.5	7221.8	7132.5	7060.9
67.5°	4351.9	4382.3	5115.4	6416.6	7716.3	8354.5	8345.9	7885.9	7536.6	7068.0	6512.6
69°	3596.4	3626.4	4332.1	5798.3	7399.0	8440.8	8457.5	8052.4	7476.7	6676.1	5770.4
70°	3046.1	3078.1	3735.6	5268.3	7030.9	8400.7	8430.6	8036.7	7305.1	6222.2	5119.0
72.5°	1597.7	1625.1	2299.8	3629.4	5731.8	7713.8	7804.7	7357.4	6192.2	4518.9	3026.8
75°	502.1	517.8	898.1	1897.2	3924.4	5997.8	6018.6	5771.4	4397.1	2485.6	1260.6
77.5°	191.4	186.8	299.0	699.1	1984.0	3776.7	3904.1	3606.6	2307.4	878.8	290.9
80°	103.1	103.6	155.4	289.4	848.9	1940.9	2048.5	1748.0	819.9	274.2	67.0
82.5°	44.7	46.7	87.3	153.3	389.9	715.8	769.7	640.7	313.2	184.3	24.9
85°	9.6	10.7	42.1	83.3	158.9	201.0	210.7	207.6	199.5	143.2	9.6
87.5°	0.0	0.0	18.8	30.0	40.1	45.7	40.1	52.3	110.2	96.5	5.1
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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CATALOG NUMBER: GLEON-SA4A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1085.9	1076.8	1061.1	1043.8	1031.6	1018.9	1008.8	1004.2	999.1	995.6	1000.1
5°	1083.9	1066.1	1035.7	1006.2	984.9	967.6	953.4	947.8	942.3	938.2	937.7
7.5°	1101.7	1076.8	1030.1	986.9	953.9	930.6	911.3	903.2	896.6	893.5	891.0
10°	1135.7	1103.7	1041.3	984.9	942.3	902.7	861.0	829.1	808.2	798.6	795.0
12.5°	1179.9	1139.8	1062.6	995.6	933.6	857.5	769.1	693.0	643.7	627.5	617.9
15°	1231.6	1181.9	1090.5	1009.3	902.2	763.1	613.3	513.8	468.1	458.9	448.8
17.5°	1281.4	1226.6	1124.0	1011.8	833.1	609.7	449.3	381.8	364.0	370.1	371.6
20°	1325.1	1270.7	1157.0	989.5	707.7	457.4	347.8	331.0	337.6	349.3	351.3
22.5°	1369.2	1313.4	1187.5	930.6	547.3	347.3	313.2	317.3	323.9	335.6	337.6
25°	1423.0	1365.2	1215.9	822.5	410.7	295.5	297.5	303.6	310.2	320.9	321.9
27.5°	1485.0	1430.7	1234.7	681.8	304.6	271.6	278.2	287.4	294.0	304.1	306.1
30°	1567.2	1517.0	1240.8	536.1	255.4	250.3	253.3	264.5	274.2	283.3	284.8
32.5°	1644.4	1602.3	1220.5	404.6	236.6	230.5	230.5	237.1	248.3	256.9	258.9
35°	1715.5	1688.1	1155.5	296.0	222.4	212.2	207.1	207.1	214.2	221.4	223.4
37.5°	1809.4	1808.4	1050.4	236.1	208.7	197.0	186.3	178.2	175.7	177.2	178.2
40°	1970.3	1971.9	913.3	211.7	197.0	181.2	165.0	150.3	136.6	132.0	131.5
42.5°	2221.6	2198.8	769.7	200.0	186.8	165.0	140.6	120.8	99.5	92.9	92.4
45°	2620.7	2485.1	617.3	189.4	176.2	146.7	116.3	89.4	72.1	67.0	67.0
47.5°	3202.0	2861.3	478.2	177.7	162.0	125.9	87.8	64.5	52.8	50.3	50.8
50°	3803.1	3229.9	366.5	163.0	144.7	104.1	65.0	46.7	40.1	40.1	40.6
52.5°	4336.1	3500.0	285.8	147.2	123.4	81.7	49.2	36.6	33.5	33.0	33.5
55°	4835.2	3674.1	218.8	129.0	98.0	60.9	37.6	30.0	27.9	26.9	26.4
57.5°	5316.5	3760.4	164.0	104.1	71.1	44.2	30.0	25.4	23.4	21.8	21.3
60°	5636.8	3690.4	112.7	76.7	49.2	32.0	24.9	21.8	19.3	17.8	17.3
62.5°	5817.6	3499.0	72.6	55.3	35.0	23.9	19.8	18.3	14.7	13.2	13.2
65°	5744.5	3183.2	50.8	39.6	25.4	17.8	14.7	14.7	10.7	8.6	8.1
67.5°	5090.6	2689.2	38.6	29.4	18.3	13.2	11.2	12.7	6.6	4.1	4.1
69°	4379.8	2228.7	33.0	24.4	15.2	10.7	9.6	11.7	4.6	3.0	2.5
70°	3806.6	1922.6	30.0	21.3	12.7	9.1	8.6	11.2	4.6	2.5	2.0
72.5°	2277.5	1072.2	22.8	15.2	8.1	7.1	7.1	12.7	4.6	2.5	2.0
75°	920.4	377.7	16.8	10.7	6.1	6.1	8.6	16.2	4.1	2.0	1.5
77.5°	208.7	82.8	9.6	6.6	4.1	6.1	10.2	12.7	2.5	1.0	0.0
80°	50.8	20.3	6.1	4.1	2.5	4.6	7.6	7.1	0.5	0.0	0.0
82.5°	16.8	7.1	2.5	2.0	0.5	1.5	3.6	2.0	0.0	0.0	0.0
85°	7.1	4.1	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)