

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P634044

Luminaire Tested: GWS-SA2F-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12895.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

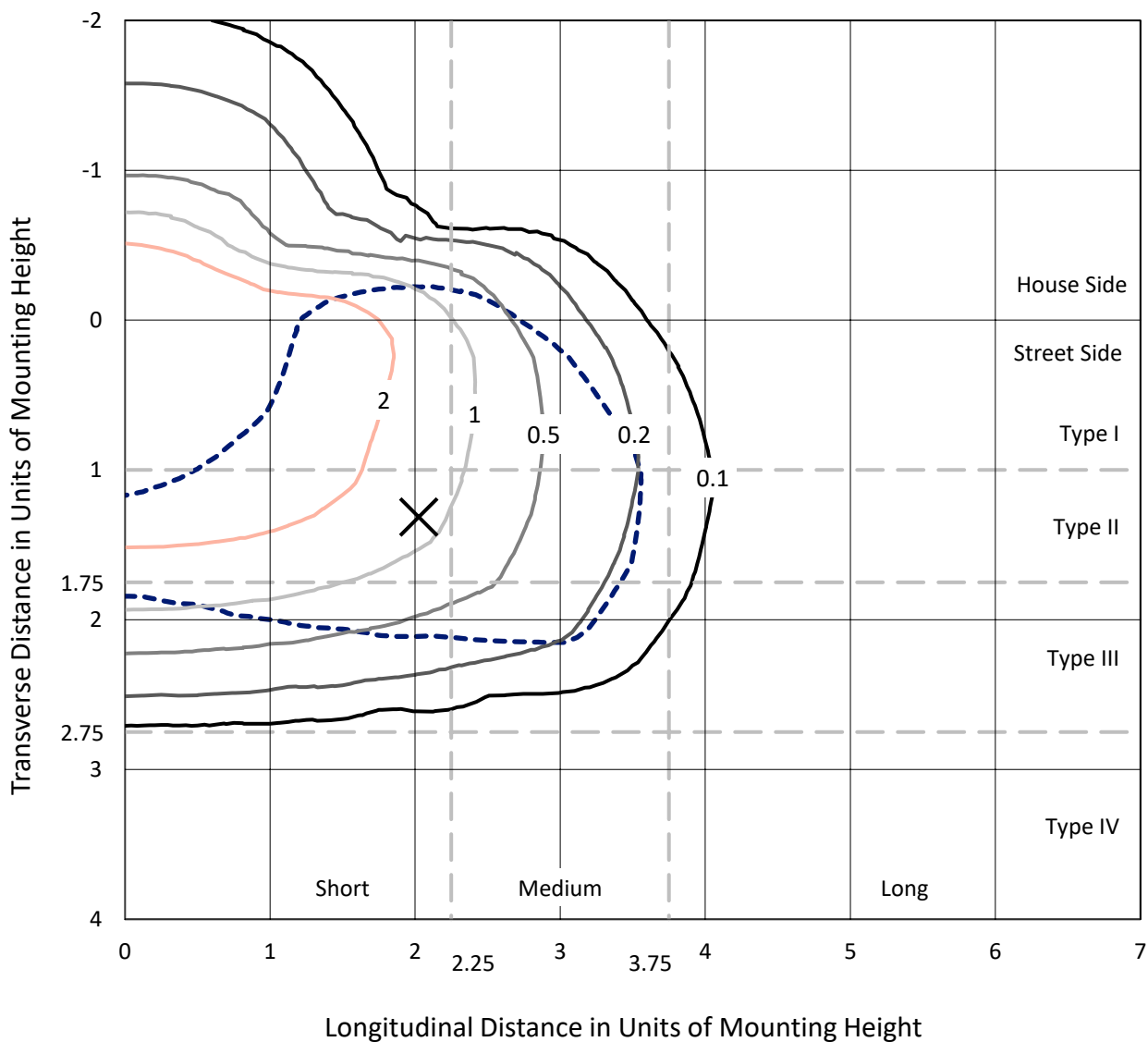


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

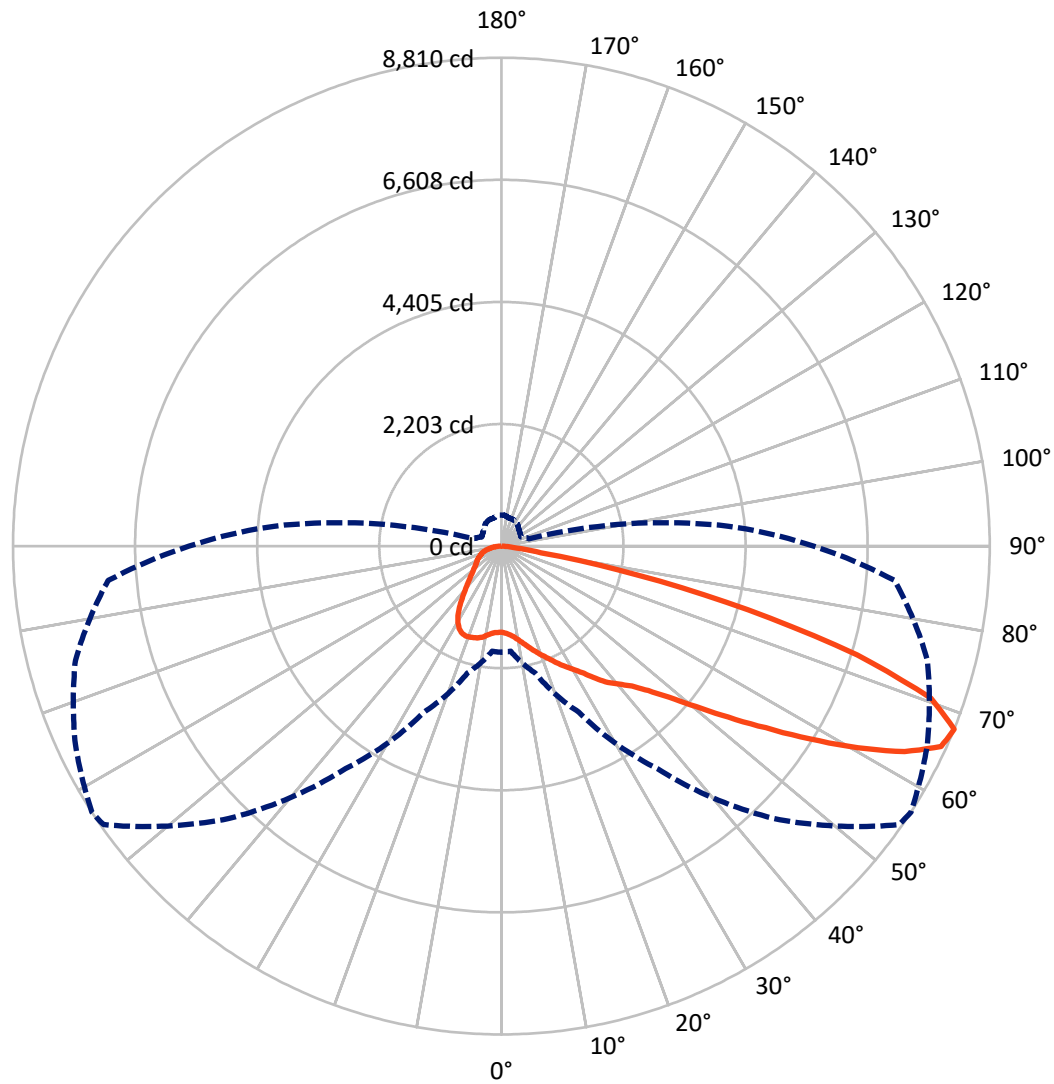


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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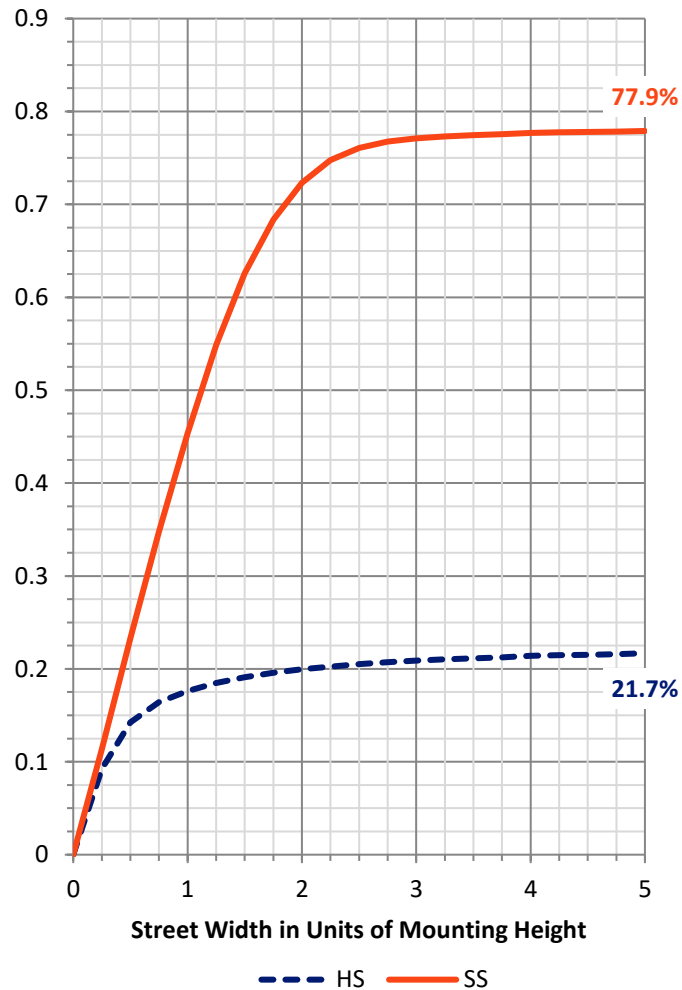
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2835.3	0.0	2835.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	10060.5	0.0	10060.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	12895.8	0.0	12895.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.2
10°-20°	510.2	4.0
20°-30°	909.6	7.1
30°-40°	1322.4	10.3
40°-50°	1913.9	14.8
50°-60°	2995.2	23.2
60°-70°	3494.1	27.1
70°-80°	1458.6	11.3
80°-90°	137.6	1.1
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°	12895.8	100.0
0°-180°	12895.8	100.0

Coefficient of Utilization



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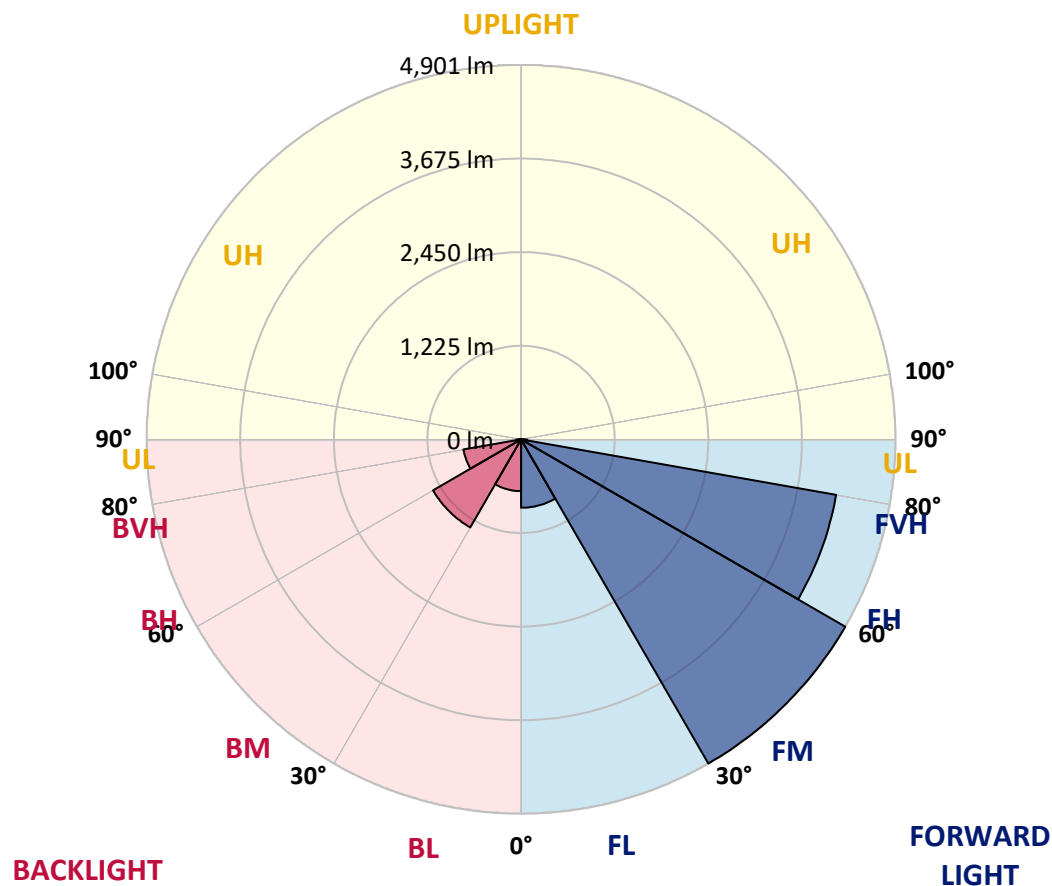
CATALOG NUMBER: GWS-SA2F-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.7	6.9			
FM	(30°-60°)	4900.6	38.0			
FH	(60°-80°)	4187.5	32.5			G2/5000
FVH	(80°-90°)	76.7	0.6			G1/100
BL	(0°-30°)	678.1	5.3	B2/1000		
BM	(30°-60°)	1331.0	10.3	B2/2500		
BH	(60°-80°)	765.3	5.9	B2/1000		G2/1000
BVH	(80°-90°)	61.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CATALOG NUMBER: GWS-SA2F-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1576.0	1574.2	1573.3	1578.8	1577.0	1576.0	1576.0	1575.1	1573.3	1565.9	1555.7
5°	1619.4	1615.8	1612.1	1616.7	1613.0	1609.3	1608.4	1606.5	1600.0	1589.0	1573.3
7.5°	1664.7	1661.0	1661.9	1664.7	1661.9	1660.1	1657.3	1655.5	1645.3	1627.8	1606.5
10°	1728.5	1728.5	1730.3	1733.1	1734.0	1731.2	1725.7	1722.9	1710.9	1688.7	1659.2
12.5°	1820.8	1819.0	1819.0	1817.1	1819.9	1817.1	1811.6	1807.0	1792.2	1763.6	1721.1
15°	1942.8	1935.4	1928.9	1916.9	1913.2	1903.1	1904.9	1902.1	1888.3	1849.5	1795.9
17.5°	2073.0	2072.1	2062.0	2037.9	2013.9	1997.3	2001.0	2000.1	1992.7	1940.0	1871.6
20°	2187.6	2192.2	2183.0	2164.5	2132.2	2100.8	2098.9	2103.5	2094.3	2041.6	1946.5
22.5°	2316.0	2312.3	2303.1	2279.1	2255.0	2221.8	2210.7	2207.0	2203.3	2143.2	2023.2
25°	2437.9	2449.0	2437.0	2414.9	2377.9	2341.9	2332.6	2336.3	2326.2	2246.7	2105.4
27.5°	2592.2	2596.8	2589.5	2559.0	2527.6	2476.7	2459.2	2459.2	2455.5	2343.7	2170.0
30°	2756.7	2769.6	2756.7	2731.7	2699.4	2626.4	2588.5	2584.8	2573.7	2443.5	2245.8
32.5°	2922.0	2931.3	2922.0	2898.0	2861.1	2797.3	2742.8	2734.5	2719.7	2552.5	2323.4
35°	3068.9	3077.2	3075.4	3080.9	3050.4	2970.1	2936.8	2933.1	2894.3	2694.8	2428.7
37.5°	3229.7	3239.8	3226.0	3237.0	3225.0	3149.3	3139.1	3120.6	3065.2	2828.7	2539.6
40°	3412.6	3421.8	3399.6	3404.3	3390.4	3347.9	3296.2	3271.2	3189.0	2973.8	2714.2
42.5°	3608.4	3629.7	3639.8	3631.5	3599.2	3575.2	3484.6	3453.2	3384.9	3235.2	3001.5
45°	3892.0	3923.4	3938.2	3917.0	3903.1	3868.9	3758.1	3720.2	3684.2	3603.8	3402.4
47.5°	4197.8	4226.5	4273.6	4282.8	4293.9	4268.0	4111.9	4074.9	4081.4	4072.2	3895.7
50°	4441.7	4465.7	4572.0	4685.6	4779.8	4787.2	4587.7	4547.9	4583.0	4612.6	4489.7
52.5°	4619.1	4640.3	4780.7	5015.4	5228.8	5386.8	5171.5	5126.2	5154.9	5221.4	5165.0
55°	4763.2	4792.7	4939.6	5299.9	5731.3	5980.8	5843.1	5785.9	5773.8	5856.1	5888.4
57.5°	4838.9	4848.2	5054.2	5522.6	6099.9	6563.7	6623.8	6559.1	6444.5	6489.8	6657.9
60°	4666.2	4681.9	4963.7	5579.8	6390.9	7142.0	7443.2	7389.6	7145.7	7170.6	7356.3
62.5°	4188.6	4210.7	4549.8	5307.3	6415.0	7528.2	8199.8	8165.6	7838.6	7703.7	7759.1
65°	3359.9	3367.3	3718.4	4632.9	5937.4	7576.2	8727.3	8719.0	8322.6	8006.7	7769.3
67.5°	1916.0	1903.1	2372.4	3304.5	4899.9	6951.7	8761.5	8810.4	8479.7	7956.8	7122.6
70°	830.5	832.4	1048.5	1630.5	3171.5	5618.6	8137.9	8221.9	8025.2	7126.3	5666.7
72.5°	384.3	389.8	483.2	705.8	1354.3	3485.6	6635.8	6711.5	6542.5	5703.6	4123.0
75°	271.6	276.2	322.4	404.6	622.7	1358.0	4438.9	4597.8	4680.0	4266.2	2716.9
77.5°	206.0	212.5	235.6	280.8	384.3	481.3	2123.8	2502.6	2981.1	2654.1	1399.6
80°	131.2	131.2	156.1	187.5	234.6	250.4	613.4	727.0	1458.7	1093.8	549.7
82.5°	88.7	91.5	106.2	119.2	134.9	142.3	263.3	280.8	421.3	372.3	226.3
85°	47.1	49.0	55.4	54.5	64.7	56.4	110.9	109.9	154.3	169.1	85.9
87.5°	0.0	0.0	0.9	0.9	1.8	2.8	12.0	12.9	32.3	51.7	28.6
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: GWS-SA2F-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1561.2	1550.2	1555.7	1553.9	1559.4	1559.4	1549.2	1546.5	1547.4	1536.3	1532.6
5°	1575.1	1562.2	1564.9	1561.2	1566.8	1571.4	1566.8	1566.8	1572.3	1564.0	1559.4
7.5°	1606.5	1591.7	1591.7	1587.1	1593.6	1597.3	1593.6	1599.1	1609.3	1601.0	1596.4
10°	1656.4	1638.8	1639.8	1634.2	1637.0	1635.2	1620.4	1615.8	1618.5	1611.1	1607.4
12.5°	1721.1	1697.0	1697.0	1686.0	1679.5	1660.1	1629.6	1618.5	1620.4	1613.9	1611.1
15°	1783.0	1760.8	1756.2	1734.0	1704.4	1668.4	1640.7	1633.3	1635.2	1628.7	1624.1
17.5°	1855.9	1827.3	1810.7	1770.0	1715.5	1678.6	1650.9	1633.3	1618.5	1603.7	1600.0
20°	1923.4	1887.4	1856.9	1794.0	1727.5	1676.7	1625.0	1581.6	1545.5	1526.1	1521.5
22.5°	1992.7	1946.5	1892.9	1810.7	1726.6	1643.5	1548.3	1482.7	1429.1	1400.5	1406.0
25°	2058.3	2000.1	1927.1	1826.4	1697.0	1569.6	1440.2	1342.3	1281.3	1259.2	1252.7
27.5°	2112.8	2040.7	1958.5	1819.0	1636.1	1463.3	1292.4	1183.4	1124.3	1099.3	1092.9
30°	2173.7	2092.4	2003.8	1784.8	1540.0	1314.6	1125.2	1036.5	994.0	970.0	970.9
32.5°	2243.9	2159.0	2067.5	1719.2	1417.1	1153.8	987.6	926.6	892.4	868.4	864.7
35°	2338.2	2254.1	2110.0	1620.4	1261.0	1006.0	893.3	843.4	800.9	769.5	763.1
37.5°	2454.6	2397.3	2114.6	1488.3	1093.8	904.4	825.9	772.3	720.6	679.0	674.4
40°	2654.1	2588.5	2076.7	1322.9	951.5	838.8	769.5	707.6	647.6	601.4	594.9
42.5°	2938.7	2803.8	1995.4	1136.3	844.4	787.1	716.0	637.4	576.5	544.1	539.5
45°	3300.8	3044.0	1873.5	960.8	764.9	736.3	659.6	577.4	545.1	522.0	517.3
47.5°	3744.2	3323.9	1733.1	824.0	703.0	690.1	602.3	557.1	528.4	509.0	504.4
50°	4274.5	3680.5	1617.6	716.9	647.6	636.5	583.9	545.1	522.0	506.3	502.6
52.5°	4879.6	4076.8	1561.2	640.2	599.6	588.5	577.4	542.3	522.9	510.9	506.3
55°	5507.8	4494.4	1508.6	581.1	558.9	565.4	578.3	551.5	536.7	521.0	516.4
57.5°	6114.7	4886.1	1379.3	534.9	529.3	554.3	582.9	560.8	543.2	527.5	522.0
60°	6533.2	5100.4	1160.3	497.9	507.2	540.4	570.9	546.9	524.7	518.3	515.5
62.5°	6645.9	5074.5	900.7	460.1	480.4	509.9	539.5	523.8	500.7	510.9	511.8
65°	6382.6	4797.4	676.2	423.1	445.3	470.2	507.2	500.7	492.4	520.1	521.0
67.5°	5637.1	4116.5	515.5	390.8	409.2	439.7	497.0	523.8	525.7	560.8	557.1
70°	4265.3	3075.4	403.7	360.3	381.5	439.7	529.3	541.4	519.2	551.5	544.1
72.5°	2948.8	2029.6	343.7	333.5	347.4	419.4	528.4	528.4	504.4	504.4	490.5
75°	1831.9	1193.6	299.3	299.3	299.3	366.8	513.6	486.9	444.4	425.0	413.9
77.5°	904.4	580.2	251.3	260.5	250.4	306.7	419.4	398.2	372.3	352.0	344.6
80°	386.2	290.1	203.2	213.4	201.4	231.0	332.6	328.0	303.0	276.2	267.9
82.5°	177.4	149.7	162.6	167.2	146.9	173.7	243.0	243.0	229.1	192.2	178.3
85°	75.8	79.4	112.7	112.7	92.4	97.9	130.3	123.8	110.9	90.5	83.1
87.5°	25.9	38.8	57.3	49.9	19.4	8.3	4.6	1.8	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

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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 W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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)