

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P639486

Luminaire Tested: GWS-SA5B-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8710 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

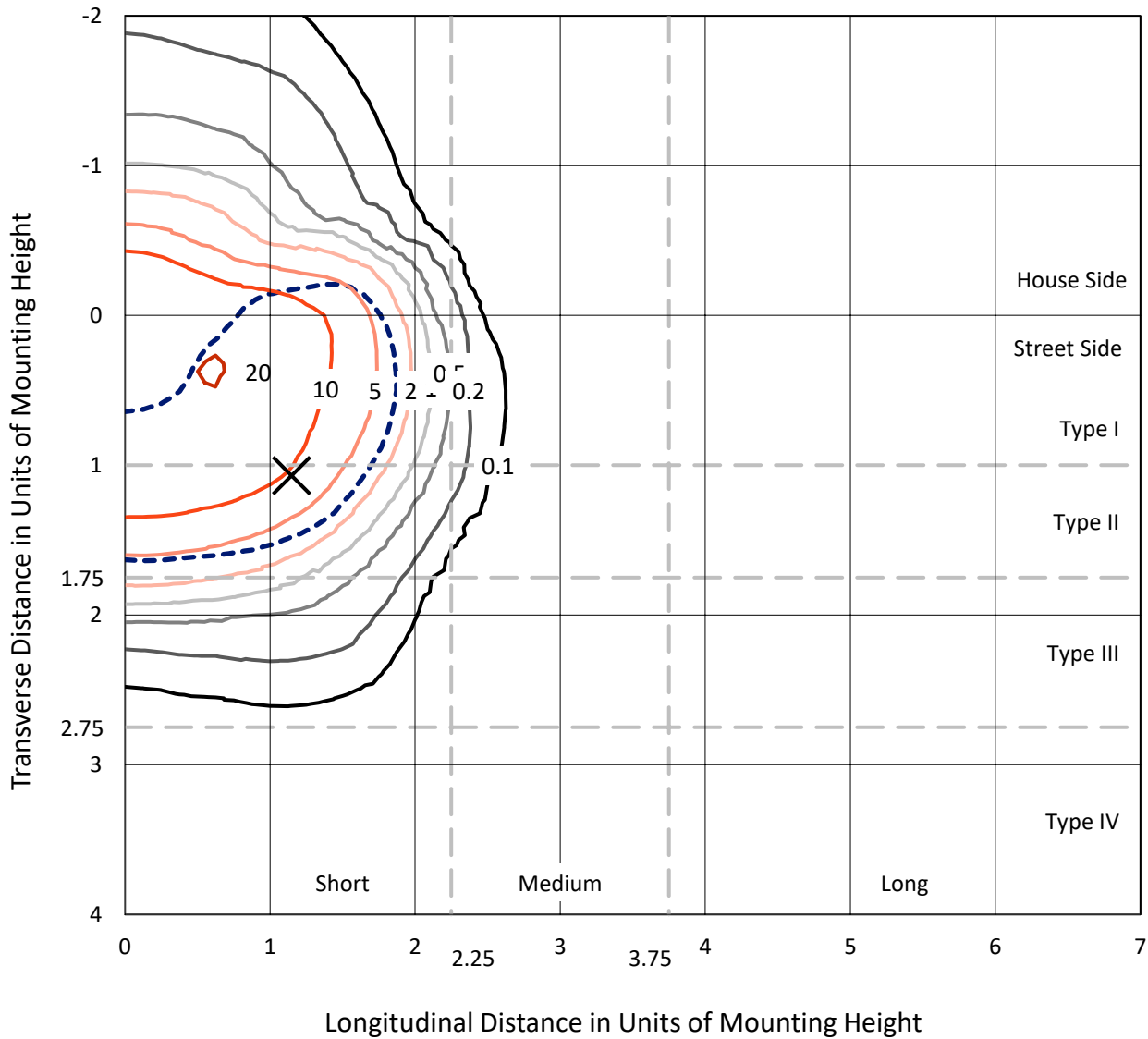
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

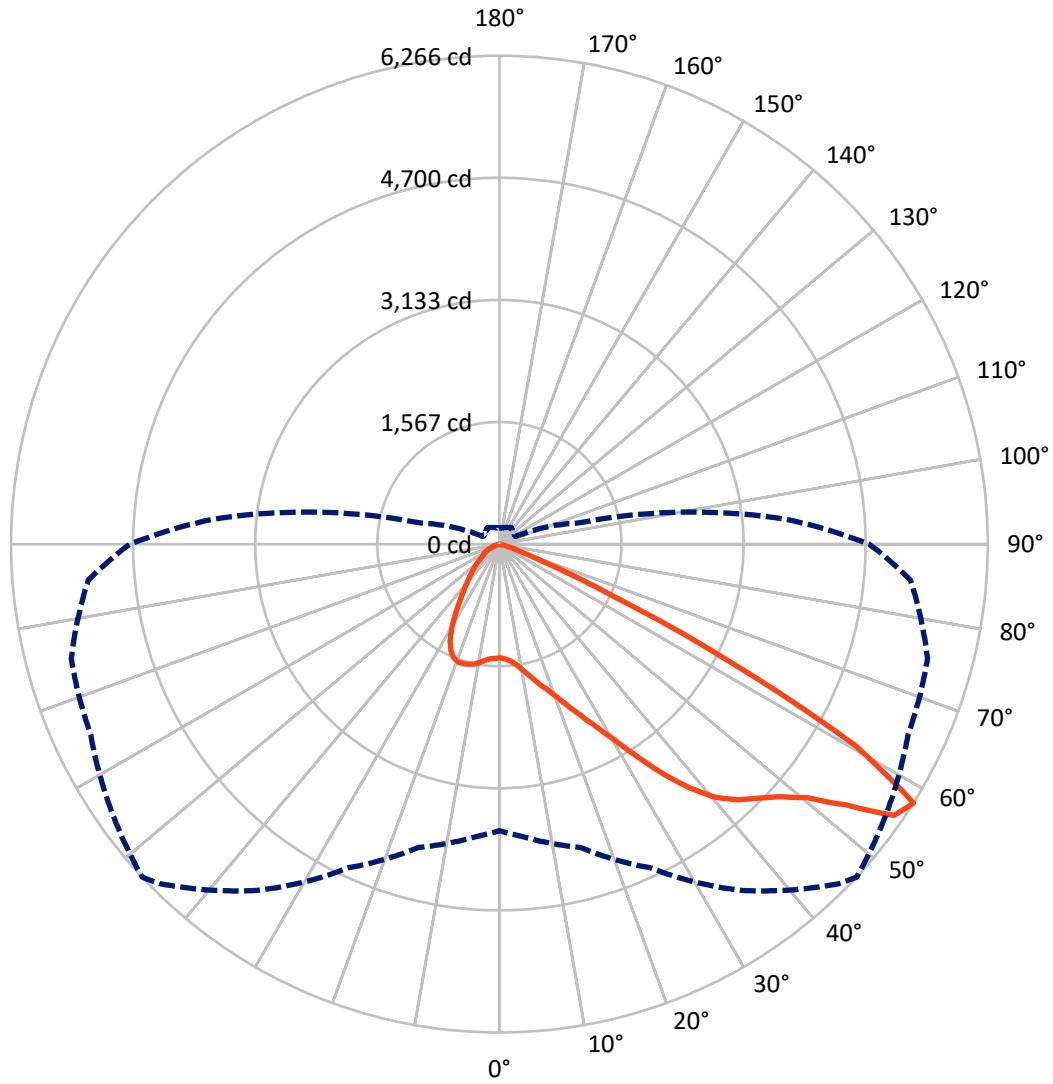
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1889.6	0.0	1889.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6820.4	0.0	6820.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	8710.0	0.0	8710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.7
10°-20°	489.5	5.6
20°-30°	908.8	10.4
30°-40°	1454.9	16.7
40°-50°	2126.7	24.4
50°-60°	2624.7	30.1
60°-70°	877.0	10.1
70°-80°	81.7	0.9
80°-90°	1.7	0.0
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°	8710.0	100.0
0°-180°	8710.0	100.0

Coefficient of Utilization



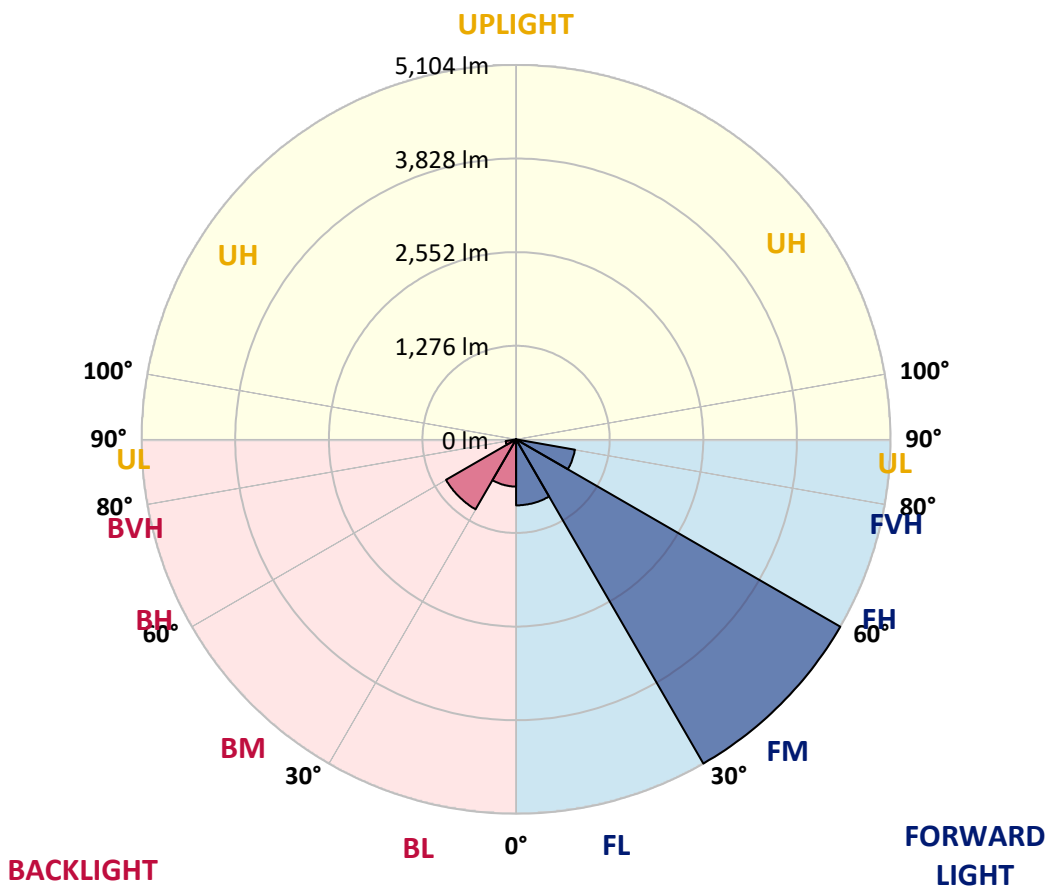
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.1	10.3			
FM (30°-60°)	5104.0	58.6			
FH (60°-80°)	815.1	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	643.2	7.4	B2/1000		
BM (30°-60°)	1102.2	12.7	B2/2500		
BH (60°-80°)	143.7	1.6	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P639486

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1
2.5°	1473.2	1472.2	1471.2	1477.3	1475.3	1474.2	1476.3	1476.3	1476.3	1470.2	1458.1
5°	1508.6	1508.6	1507.6	1513.7	1508.6	1505.6	1506.6	1506.6	1502.6	1491.4	1476.3
7.5°	1564.2	1562.2	1560.2	1566.3	1561.2	1560.2	1562.2	1556.1	1549.1	1530.9	1509.6
10°	1644.1	1644.1	1641.1	1647.1	1643.1	1641.1	1641.1	1637.0	1623.9	1595.6	1564.2
12.5°	1754.3	1749.3	1742.2	1737.1	1735.1	1734.1	1735.1	1729.0	1714.9	1678.5	1635.0
15°	1874.7	1870.6	1859.5	1851.4	1840.3	1838.3	1844.3	1839.3	1825.1	1775.6	1713.9
17.5°	2026.3	2031.4	2003.1	1985.9	1953.5	1951.5	1953.5	1961.6	1951.5	1887.8	1797.8
20°	2155.7	2159.8	2138.6	2126.4	2097.1	2084.0	2088.0	2101.1	2090.0	2015.2	1889.8
22.5°	2294.3	2299.3	2277.1	2251.8	2238.7	2238.7	2253.8	2272.0	2256.9	2158.8	1995.0
25°	2460.1	2464.1	2445.9	2412.6	2389.3	2418.6	2440.9	2489.4	2464.1	2330.7	2119.3
27.5°	2650.2	2651.2	2624.9	2590.5	2578.4	2633.0	2655.3	2730.1	2720.0	2523.8	2250.8
30°	2853.4	2854.4	2848.4	2825.1	2814.0	2885.8	2916.1	3024.3	3017.2	2763.4	2429.8
32.5°	3064.8	3064.8	3075.9	3073.9	3087.0	3204.3	3252.8	3376.2	3369.1	3056.7	2652.2
35°	3277.1	3278.1	3297.3	3345.9	3400.5	3556.2	3619.9	3769.5	3753.4	3407.5	2936.3
37.5°	3518.8	3508.7	3534.9	3607.7	3729.1	3909.1	3969.7	4112.3	4094.1	3766.5	3307.4
40°	3810.0	3791.8	3791.8	3876.7	4014.2	4221.5	4273.1	4343.9	4282.2	4056.7	3671.4
42.5°	4131.5	4114.3	4092.1	4166.9	4282.2	4444.0	4486.4	4467.2	4416.7	4330.7	4086.0
45°	4457.1	4430.8	4446.0	4491.5	4558.2	4635.1	4651.2	4562.3	4539.0	4563.3	4428.8
47.5°	4704.8	4686.6	4724.0	4787.7	4842.3	4853.5	4842.3	4719.0	4717.0	4802.9	4666.4
50°	4787.7	4789.8	4892.9	5032.4	5120.4	5129.5	5114.3	4972.8	4953.6	4978.9	4794.8
52.5°	4795.8	4803.9	4954.6	5220.5	5460.2	5569.4	5557.2	5404.5	5216.5	5189.2	4989.0
55°	4600.7	4648.2	4858.5	5246.8	5756.4	6105.3	6145.7	5853.5	5574.4	5551.2	5406.6
57.5°	3677.5	3774.6	4028.4	4581.5	5425.8	6160.9	6266.0	6055.7	5785.7	5686.6	5294.3
60°	2198.2	2318.5	2562.2	3240.7	4129.5	5063.8	5244.8	5274.1	5149.7	4863.6	4061.7
62.5°	943.4	933.3	1233.6	1753.3	2456.1	3218.5	3300.4	3427.8	3536.0	3236.7	2465.2
65°	323.6	351.9	489.4	790.7	1229.5	1494.5	1567.3	1681.5	1835.2	1514.7	902.9
67.5°	200.2	212.3	282.1	467.1	663.3	653.2	620.8	602.6	586.5	401.4	247.7
70°	145.6	155.7	198.2	321.5	445.9	313.5	272.0	220.4	244.7	225.5	175.9
72.5°	98.1	106.2	136.5	195.1	228.5	152.7	141.6	160.8	194.1	185.0	143.6
75°	58.6	63.7	77.9	95.0	93.0	78.9	79.9	113.2	148.6	138.5	102.1
77.5°	40.4	42.5	51.6	61.7	45.5	24.3	22.2	31.3	50.6	50.6	34.4
80°	10.1	13.1	13.1	8.1	7.1	6.1	6.1	9.1	14.2	10.1	5.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639486

CATALOG NUMBER: GWS-SA5B-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1	1458.1
2.5°	1465.1	1453.0	1461.1	1459.1	1465.1	1467.2	1458.1	1456.0	1457.1	1444.9	1440.9
5°	1479.3	1465.1	1469.2	1465.1	1472.2	1478.3	1475.3	1479.3	1484.4	1475.3	1471.2
7.5°	1509.6	1495.5	1494.5	1488.4	1498.5	1502.6	1501.5	1512.7	1522.8	1516.7	1510.6
10°	1562.2	1543.0	1541.0	1535.9	1539.0	1542.0	1530.9	1532.9	1542.0	1534.9	1531.9
12.5°	1626.9	1603.7	1598.6	1586.5	1586.5	1571.3	1547.0	1542.0	1549.1	1544.0	1539.0
15°	1696.7	1665.3	1657.3	1636.0	1615.8	1587.5	1562.2	1556.1	1561.2	1555.1	1551.1
17.5°	1774.6	1739.2	1712.9	1675.5	1631.0	1597.6	1569.3	1556.1	1548.1	1535.9	1534.9
20°	1851.4	1804.9	1760.4	1700.7	1642.1	1591.5	1545.0	1510.6	1481.3	1463.1	1456.0
22.5°	1940.4	1871.6	1799.8	1715.9	1632.0	1555.1	1473.2	1414.6	1364.0	1346.8	1338.7
25°	2035.4	1946.4	1839.3	1730.1	1597.6	1474.2	1363.0	1276.1	1209.3	1187.1	1178.0
27.5°	2140.6	2018.2	1879.7	1727.0	1526.8	1359.0	1211.3	1103.2	1037.4	1017.2	1024.3
30°	2274.1	2111.3	1930.3	1695.7	1420.7	1197.2	1024.3	933.3	883.7	864.5	865.5
32.5°	2452.0	2244.7	2004.1	1628.9	1284.1	1013.2	861.5	794.8	761.4	736.1	734.1
35°	2706.8	2448.0	2072.8	1521.8	1118.3	849.4	739.1	686.6	640.1	610.7	615.8
37.5°	3012.2	2703.8	2110.2	1377.2	932.3	722.0	647.1	593.5	541.0	497.5	502.5
40°	3374.2	3038.5	2107.2	1187.1	762.4	635.0	570.3	507.6	441.9	402.4	406.5
42.5°	3777.6	3355.0	2041.5	985.9	632.0	564.2	496.5	417.6	353.9	329.6	330.6
45°	4127.5	3611.8	1926.2	777.6	531.9	495.5	419.6	338.7	310.4	293.2	292.2
47.5°	4386.3	3799.9	1761.4	611.7	451.0	432.8	344.8	303.3	281.1	266.9	264.9
50°	4530.9	3865.6	1579.4	479.3	381.2	367.0	308.4	275.0	259.9	250.8	248.7
52.5°	4725.1	3944.5	1449.0	378.2	319.5	300.3	284.1	255.8	245.7	238.6	235.6
55°	5032.4	4097.1	1335.7	300.3	265.9	261.9	268.0	244.7	238.6	227.5	223.5
57.5°	4743.3	3680.5	1037.4	232.6	224.5	239.6	258.9	233.6	218.4	208.3	204.3
60°	3337.8	2447.0	521.7	187.1	200.2	224.5	243.7	211.3	196.2	198.2	196.2
62.5°	1840.3	1224.5	234.6	156.7	173.9	198.2	208.3	183.0	172.9	190.1	193.1
65°	601.6	416.6	135.5	121.3	137.5	161.8	180.0	173.9	171.9	192.1	198.2
67.5°	185.0	137.5	92.0	87.0	95.0	119.3	151.7	188.1	202.2	208.3	211.3
70°	138.5	108.2	78.9	73.8	77.9	91.0	128.4	156.7	147.6	148.6	146.6
72.5°	111.2	85.9	67.7	64.7	64.7	62.7	67.7	84.9	96.1	101.1	101.1
75°	77.9	60.7	51.6	47.5	37.4	30.3	27.3	27.3	24.3	23.3	22.2
77.5°	26.3	22.2	20.2	16.2	11.1	9.1	8.1	7.1	5.1	3.0	2.0
80°	4.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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
 Rf: 81.5
 Rg: 99.2

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



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 [^] /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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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 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			

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)