

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: P639973

Luminaire Tested: GWS-SA5C-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 11236.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

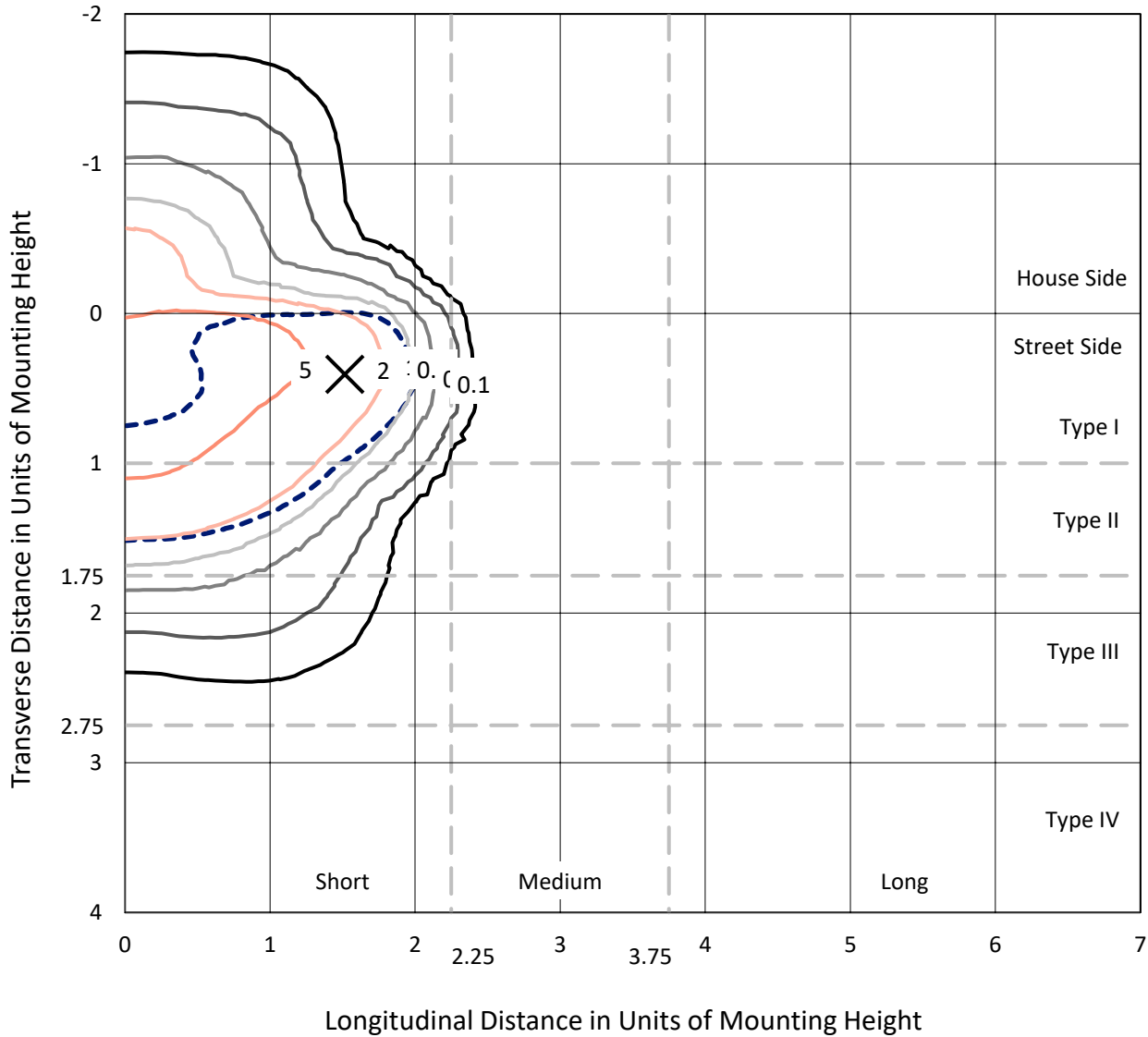
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

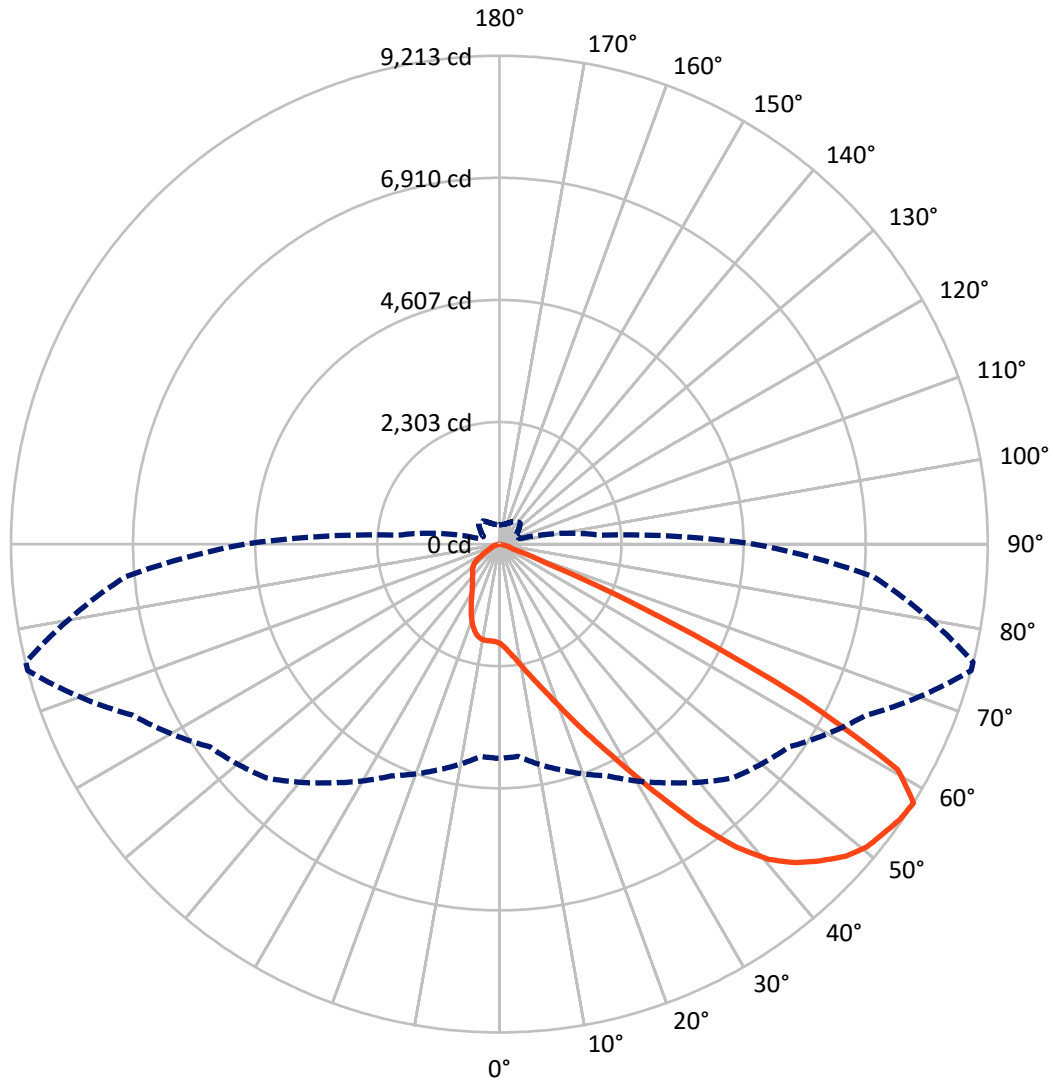
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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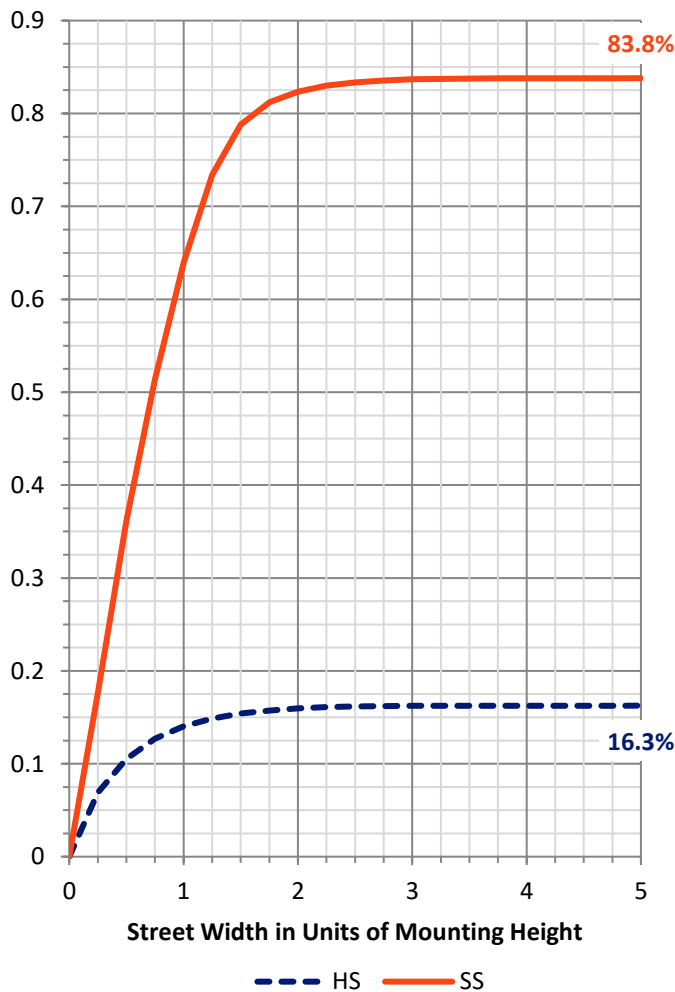
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1835.4	0.0	1835.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	9400.9	0.0	9400.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	11236.3	0.0	11236.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	1.7
10°-20°	619.5	5.5
20°-30°	1134.4	10.1
30°-40°	1882.1	16.8
40°-50°	2874.4	25.6
50°-60°	3229.9	28.7
60°-70°	1191.3	10.6
70°-80°	113.9	1.0
80°-90°	0.1	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°	11236.3	100.0
0°-180°	11236.3	100.0

Coefficient of Utilization



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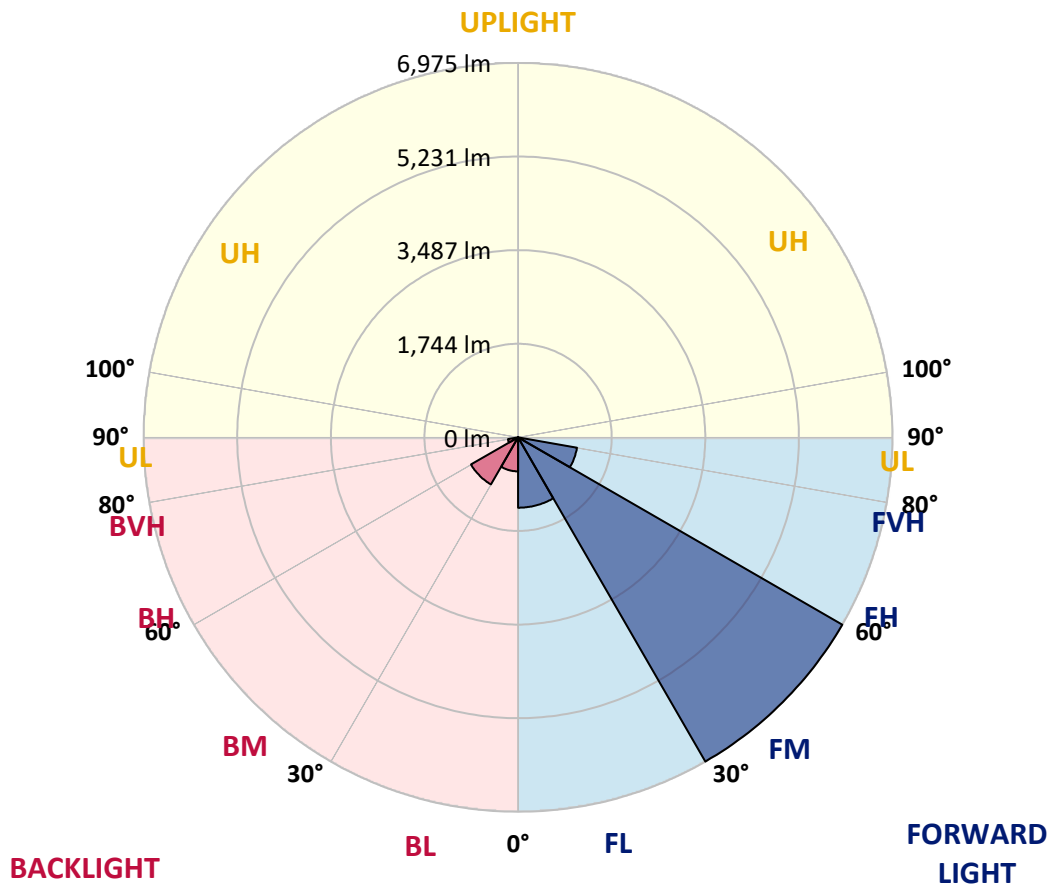
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.3	11.7			
FM (30°-60°)	6975.0	62.1			
FH (60°-80°)	1114.6	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	633.3	5.6	B2/1000		
BM (30°-60°)	1011.4	9.0	B2/2500		
BH (60°-80°)	190.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1
2.5°	2093.7	2115.4	2108.7	2095.1	2087.0	2058.5	2040.9	1989.3	1952.7	1948.6	1914.7
5°	2358.2	2354.1	2348.7	2332.4	2318.8	2274.1	2221.2	2134.4	2057.1	2047.6	1975.8
7.5°	2503.3	2506.0	2508.7	2506.0	2496.5	2462.6	2404.3	2302.6	2184.6	2176.5	2062.5
10°	2562.9	2568.4	2581.9	2607.7	2630.7	2628.0	2594.1	2489.7	2344.6	2331.0	2177.8
12.5°	2591.4	2598.2	2619.9	2668.7	2731.1	2779.9	2785.3	2691.8	2531.7	2510.0	2314.8
15°	2630.7	2637.5	2664.6	2728.4	2819.2	2915.5	2977.9	2918.2	2739.2	2716.2	2465.3
17.5°	2648.4	2657.9	2697.2	2781.3	2899.2	3047.0	3188.1	3182.6	2984.7	2967.0	2640.2
20°	2682.3	2689.0	2724.3	2815.2	2957.5	3170.4	3407.7	3493.2	3284.3	3258.6	2851.8
22.5°	2789.4	2792.1	2808.4	2865.3	2998.2	3259.9	3631.5	3855.2	3638.3	3604.4	3089.1
25°	2964.3	2963.0	2969.7	2979.2	3076.9	3350.8	3847.1	4263.4	4043.7	4007.1	3357.6
27.5°	3186.7	3186.7	3203.0	3175.9	3215.2	3463.3	4060.0	4732.6	4515.6	4464.1	3651.8
30°	3448.4	3447.1	3485.0	3441.6	3453.9	3641.0	4289.2	5243.8	5085.2	5021.4	3990.8
32.5°	3803.7	3795.6	3839.0	3779.3	3738.6	3909.5	4568.5	5778.1	5767.3	5669.6	4416.6
35°	4252.6	4239.0	4252.6	4194.3	4121.0	4285.1	4934.7	6311.0	6523.9	6420.9	4923.8
37.5°	4698.7	4742.1	4757.0	4656.7	4597.0	4761.1	5375.4	6788.4	7246.7	7139.6	5451.3
40°	5224.9	5211.3	5262.8	5150.3	5112.3	5294.0	5806.6	7143.7	7819.0	7717.3	5920.5
42.5°	5612.7	5637.1	5700.8	5638.4	5608.6	5779.5	6168.7	7351.1	8216.3	8115.9	6255.4
45°	6077.8	6095.4	6119.8	6068.3	6037.1	6205.3	6430.4	7442.0	8518.7	8410.2	6480.6
47.5°	6580.9	6594.5	6594.5	6488.7	6388.3	6457.5	6605.3	7493.5	8796.7	8692.3	6647.3
50°	6941.6	6948.4	7008.1	6933.5	6715.1	6608.0	6685.3	7543.7	8981.1	8883.5	6701.6
52.5°	6621.6	6613.4	6810.1	6964.7	7023.0	6810.1	6823.6	7616.9	9070.6	8986.5	6745.0
55°	5576.1	5562.5	5839.1	6214.8	6728.7	7001.3	6990.4	7660.3	9169.6	9118.1	6902.3
57.5°	4042.4	4019.3	4404.4	4822.1	5496.1	6235.1	6669.0	7635.9	9213.0	9208.9	7085.4
60°	2430.0	2411.1	2774.5	3213.8	3734.6	4477.7	5197.7	6839.9	8632.6	8640.7	6609.4
62.5°	1495.7	1513.3	1841.5	2065.3	2259.2	2482.9	2899.2	4601.1	6395.1	6448.0	4644.5
65°	1006.2	1019.7	1323.5	1605.6	1605.6	1312.7	1126.9	2199.5	3411.8	3322.3	2196.8
67.5°	675.3	690.2	930.2	1259.8	1307.2	915.3	457.0	656.3	950.6	922.1	543.8
70°	397.3	413.6	619.7	863.8	951.9	637.3	305.1	278.0	269.9	261.7	211.5
72.5°	177.6	184.4	316.0	439.4	401.4	268.5	215.6	222.4	210.2	206.1	172.2
75°	54.2	57.0	81.4	94.9	96.3	96.3	130.2	174.9	165.4	166.8	132.9
77.5°	13.6	13.6	21.7	20.3	10.8	9.5	24.4	39.3	40.7	36.6	27.1
80°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1	1874.1
2.5°	1899.8	1864.6	1841.5	1809.0	1785.9	1761.5	1739.8	1722.2	1712.7	1710.0	1711.3
5°	1943.2	1887.6	1833.4	1771.0	1727.6	1686.9	1654.4	1628.6	1616.4	1612.3	1612.3
7.5°	2009.7	1932.4	1836.1	1738.5	1665.2	1601.5	1563.5	1535.0	1524.2	1521.5	1513.3
10°	2096.5	1990.7	1832.0	1680.1	1577.1	1510.6	1483.5	1475.4	1479.4	1480.8	1479.4
12.5°	2200.9	2051.7	1806.3	1594.7	1483.5	1442.8	1445.5	1467.2	1491.7	1503.9	1506.6
15°	2312.1	2107.3	1747.9	1493.0	1403.5	1402.2	1441.5	1491.7	1539.1	1559.5	1564.9
17.5°	2436.8	2152.0	1658.4	1384.5	1334.4	1373.7	1444.2	1521.5	1585.2	1619.1	1625.9
20°	2573.8	2188.7	1544.5	1282.8	1273.3	1343.8	1441.5	1536.4	1615.1	1653.0	1659.8
22.5°	2716.2	2214.4	1413.0	1189.3	1217.7	1309.9	1415.7	1507.9	1582.5	1625.9	1631.3
25°	2878.9	2217.1	1278.8	1110.6	1166.2	1263.8	1353.3	1429.3	1491.7	1529.6	1533.7
27.5°	3021.3	2184.6	1159.4	1046.9	1118.7	1206.9	1266.5	1308.6	1352.0	1373.7	1375.0
30°	3185.4	2127.6	1046.9	995.3	1069.9	1136.4	1166.2	1175.7	1179.8	1183.8	1178.4
32.5°	3380.6	2058.5	962.8	945.2	1014.3	1059.1	1067.2	1048.2	1025.2	992.6	984.5
35°	3620.6	1996.1	893.6	896.3	953.3	980.4	973.6	933.0	888.2	848.9	842.1
37.5°	3881.0	1943.2	840.7	848.9	886.9	905.8	885.5	840.7	820.4	786.5	787.9
40°	4111.5	1899.8	793.3	801.4	819.1	836.7	804.1	774.3	812.3	809.6	812.3
42.5°	4275.6	1863.2	752.6	748.5	760.7	772.9	748.5	733.6	797.4	779.7	789.2
45°	4371.9	1829.3	718.7	694.3	713.3	735.0	718.7	699.7	721.4	640.1	633.3
47.5°	4437.0	1810.3	688.9	641.4	675.3	713.3	679.4	633.3	602.1	531.6	526.1
50°	4443.8	1800.8	653.6	587.2	630.6	671.2	631.9	568.2	523.4	492.2	488.2
52.5°	4479.0	1819.8	604.8	518.0	565.5	630.6	603.4	539.7	478.7	451.6	446.1
55°	4636.3	1899.8	523.4	423.1	492.2	599.4	580.4	481.4	423.1	406.8	402.7
57.5°	4799.1	1916.1	412.2	334.9	428.5	554.6	530.2	443.4	386.5	367.5	363.4
60°	4388.2	1578.4	309.2	276.6	378.3	512.6	490.9	420.4	353.9	330.9	326.8
62.5°	2883.0	853.0	245.4	234.6	318.7	433.9	447.5	379.7	316.0	291.6	290.2
65°	1328.9	396.0	188.5	185.8	249.5	345.8	385.1	332.2	267.1	245.4	245.4
67.5°	362.1	196.6	147.8	137.0	169.5	231.9	280.7	248.2	189.8	164.1	162.7
70°	180.4	158.7	132.9	118.0	122.0	143.7	165.4	138.3	96.3	78.7	77.3
72.5°	147.8	130.2	112.6	100.3	92.2	88.1	85.4	69.2	44.7	33.9	32.5
75°	109.8	93.6	80.0	65.1	55.6	51.5	46.1	33.9	19.0	10.8	9.5
77.5°	24.4	23.1	21.7	16.3	14.9	12.2	9.5	6.8	2.7	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

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

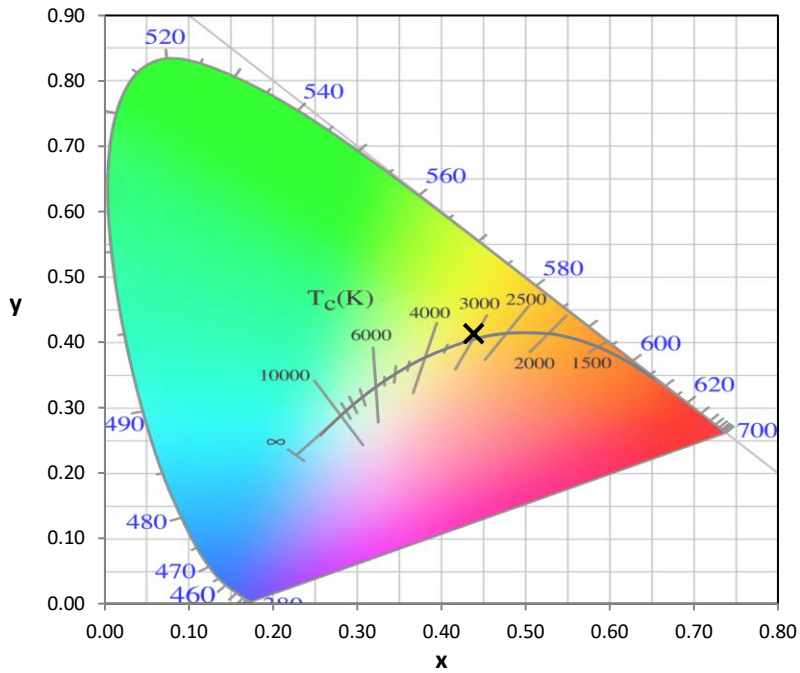
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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			

REPORT NUMBER: SP1-2408-195-9

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)