

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: P632043

Luminaire Tested: GWS-SA2B-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265.1 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

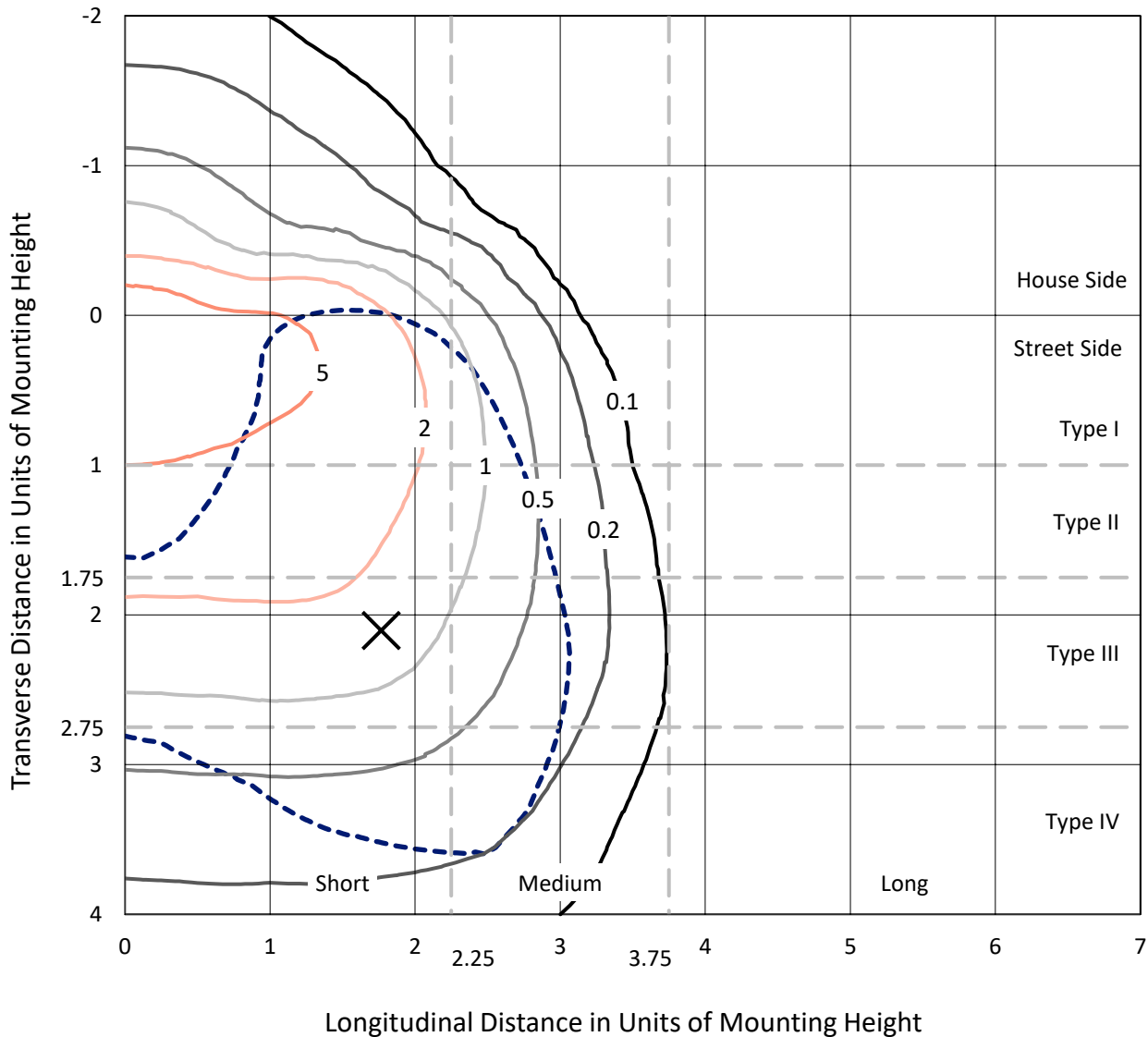
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

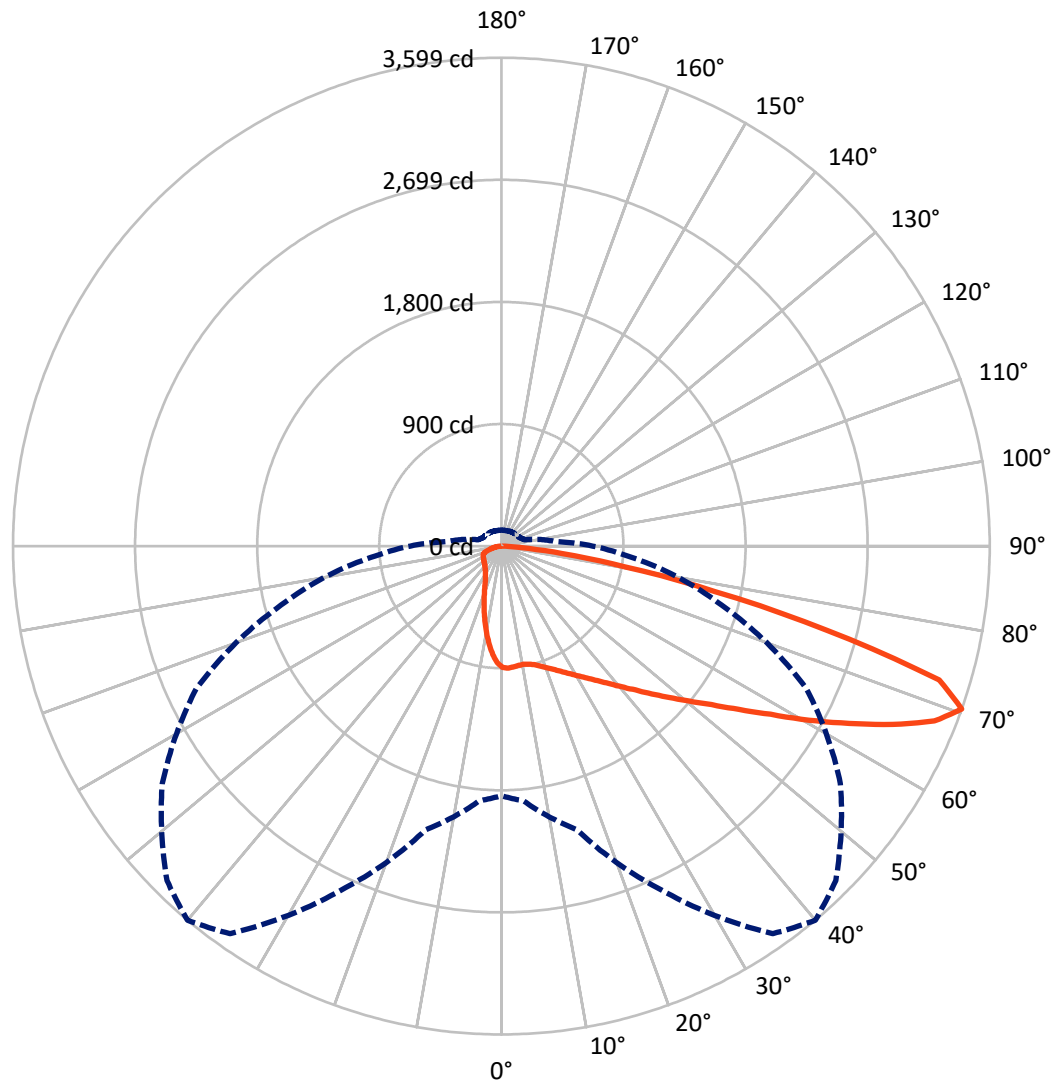
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GWS-SA2B-830-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P632043

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	811.0	0.0	811.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4454.1	0.0	4454.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	5265.1	0.0	5265.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.5
10°-20°	205.9	3.9
20°-30°	323.3	6.1
30°-40°	486.0	9.2
40°-50°	750.2	14.2
50°-60°	1114.1	21.2
60°-70°	1404.3	26.7
70°-80°	812.1	15.4
80°-90°	90.1	1.7
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°	5265.1	100.0
0°-180°	5265.1	100.0

Coefficient of Utilization



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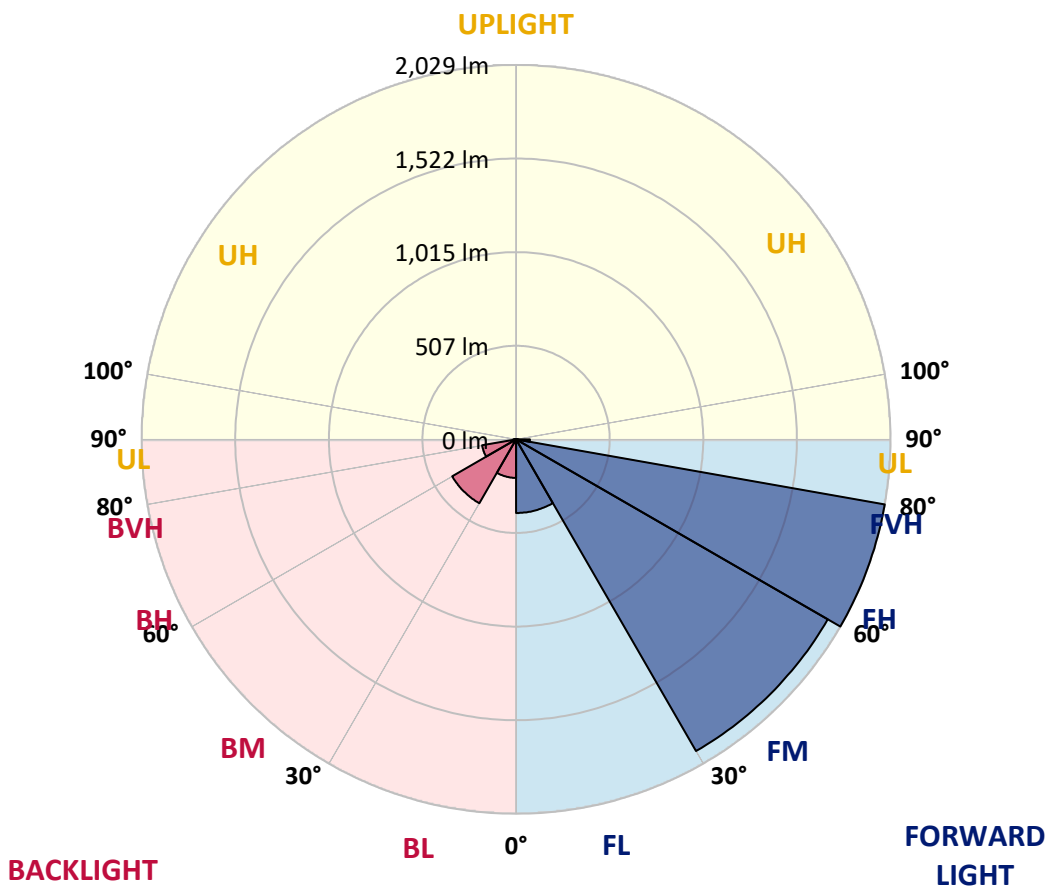
CATALOG NUMBER: GWS-SA2B-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.1	7.6			
FM (30°-60°)	1950.7	37.0			
FH (60°-80°)	2029.3	38.5			G2/5000
FVH (80°-90°)	75.1	1.4			G1/100
BL (0°-30°)	209.0	4.0	B1/500		
BM (30°-60°)	399.7	7.6	B1/1000		
BH (60°-80°)	187.2	3.6	B1/500		G1/500
BVH (80°-90°)	15.1	0.3			G1/100
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1
2.5°	899.6	901.1	902.3	903.9	903.1	900.8	902.7	902.7	898.4	893.7	889.4
5°	900.8	902.7	902.3	901.9	898.8	894.9	894.9	892.5	885.0	877.6	870.5
7.5°	898.4	898.0	897.6	896.4	892.9	888.6	887.8	883.1	873.2	863.0	852.8
10°	887.8	887.4	888.6	891.3	890.5	886.6	886.6	882.3	870.9	858.3	844.9
12.5°	879.1	879.1	883.9	891.3	894.1	892.5	892.9	889.8	876.8	861.8	846.1
15°	880.3	880.7	890.9	903.1	908.2	907.0	907.4	903.9	889.4	874.4	853.2
17.5°	888.2	890.1	907.8	924.7	931.4	929.8	927.1	921.2	904.7	887.8	861.8
20°	904.7	907.8	930.6	951.8	959.7	956.2	951.5	939.7	921.6	903.1	871.3
22.5°	937.3	939.3	964.4	985.3	991.5	987.2	977.8	960.9	940.1	920.8	882.7
25°	983.3	985.6	1009.6	1028.9	1027.3	1022.2	1009.2	988.4	963.6	943.2	899.2
27.5°	1037.9	1041.8	1065.4	1080.7	1070.5	1063.1	1048.5	1023.4	995.5	977.0	924.3
30°	1097.6	1099.2	1119.3	1134.6	1118.9	1108.7	1091.0	1063.9	1038.7	1024.9	962.1
32.5°	1155.4	1157.0	1174.3	1182.9	1166.4	1159.0	1143.6	1114.9	1097.3	1089.8	1018.3
35°	1216.3	1215.9	1230.1	1237.6	1220.7	1217.5	1201.8	1179.8	1176.6	1186.5	1100.4
37.5°	1277.2	1273.7	1281.2	1291.0	1281.6	1284.7	1274.5	1267.0	1279.2	1304.8	1209.7
40°	1326.0	1326.0	1333.8	1346.0	1349.2	1362.9	1357.0	1366.9	1406.2	1467.1	1344.8
42.5°	1369.2	1369.6	1386.1	1405.0	1427.8	1449.0	1453.7	1479.3	1560.6	1656.1	1514.6
45°	1414.4	1414.8	1437.2	1464.7	1513.0	1553.5	1563.0	1620.3	1736.7	1853.0	1698.9
47.5°	1466.7	1462.4	1493.4	1539.4	1608.2	1666.3	1690.7	1772.0	1919.0	2062.1	1872.6
50°	1525.6	1516.6	1551.2	1630.6	1715.4	1795.2	1836.1	1929.2	2114.7	2255.0	2036.1
52.5°	1592.0	1586.9	1623.1	1719.8	1849.5	1941.4	1996.8	2119.1	2304.9	2447.2	2165.8
55°	1674.6	1662.4	1714.7	1837.7	2006.7	2123.8	2189.4	2306.9	2512.8	2621.7	2264.9
57.5°	1765.0	1751.6	1821.6	1985.0	2211.0	2339.5	2421.7	2518.3	2708.6	2755.3	2323.0
60°	1862.4	1858.1	1941.0	2158.0	2454.7	2604.0	2663.4	2751.0	2878.7	2832.7	2308.5
62.5°	1951.6	1950.1	2070.7	2345.4	2712.9	2877.2	2924.3	2947.5	3001.3	2827.6	2192.9
65°	2045.6	2058.9	2222.0	2562.8	3008.8	3169.9	3189.6	3130.6	3042.6	2693.6	1956.4
67.5°	2057.4	2083.3	2317.1	2766.3	3289.4	3441.5	3425.8	3200.2	2920.8	2320.7	1533.5
70°	1840.0	1885.2	2165.4	2797.4	3487.1	3599.1	3485.5	3050.5	2478.6	1681.3	964.4
72.5°	1537.4	1576.3	1823.9	2385.5	3232.0	3374.7	3221.0	2582.0	1751.6	964.4	491.2
75°	1196.7	1241.9	1470.2	1896.2	2419.7	2476.7	2399.7	1800.7	962.8	397.7	223.2
77.5°	730.2	762.8	940.4	1284.7	1693.0	1607.8	1362.5	1009.6	422.5	190.6	137.9
80°	323.0	343.1	463.3	690.1	978.2	924.7	729.0	431.1	231.1	121.0	96.3
82.5°	173.3	186.3	228.3	273.1	429.5	449.2	364.3	248.4	124.2	69.2	55.0
85°	76.2	83.7	103.8	99.0	141.1	138.7	139.9	170.6	59.3	31.8	35.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	4.3	22.8	5.9	9.4	8.3
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-SA2B-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1
2.5°	884.6	877.6	875.6	873.2	868.9	861.5	856.0	849.7	846.9	843.8	844.2
5°	862.6	854.0	845.7	835.1	821.8	806.8	796.6	784.8	778.5	772.6	774.2
7.5°	843.8	830.4	813.5	791.1	767.1	740.4	718.8	701.9	690.5	682.6	686.6
10°	832.0	816.3	786.8	750.2	709.8	668.9	637.8	608.8	590.7	576.5	575.7
12.5°	829.6	809.2	766.3	713.3	654.7	600.1	554.5	515.2	491.2	473.6	480.2
15°	832.0	806.0	748.7	679.1	605.2	531.3	474.7	429.5	400.9	384.7	383.6
17.5°	834.7	802.9	728.6	642.2	553.3	468.8	403.2	355.3	325.8	309.7	310.1
20°	837.1	798.2	705.0	601.7	500.7	410.7	342.7	297.1	270.8	259.0	261.0
22.5°	841.0	793.5	679.9	558.5	446.8	354.5	294.7	257.8	242.1	234.2	234.6
25°	848.5	790.7	654.0	511.3	393.8	309.7	261.7	237.0	227.2	222.4	222.0
27.5°	863.8	793.1	626.8	465.7	345.8	275.5	240.5	224.4	217.7	214.6	214.2
30°	889.4	802.5	603.3	419.3	304.6	248.8	226.0	216.1	212.2	209.5	209.1
32.5°	928.3	820.2	577.7	376.1	271.2	229.1	214.6	209.5	206.7	205.1	205.1
35°	987.2	852.4	552.6	338.4	245.2	213.8	205.5	203.6	201.2	200.4	201.2
37.5°	1072.1	903.9	529.8	305.4	226.8	202.0	195.7	196.5	194.5	195.7	196.9
40°	1179.8	972.7	510.5	278.2	213.0	193.4	187.1	189.8	188.6	189.8	191.8
42.5°	1316.2	1058.0	496.0	257.0	203.2	186.3	180.4	183.1	182.4	183.9	185.9
45°	1468.2	1170.4	489.3	242.1	196.1	181.2	174.9	176.8	176.1	177.2	179.2
47.5°	1614.0	1272.5	495.2	233.4	190.2	176.8	170.2	171.0	170.6	170.2	171.3
50°	1739.8	1353.9	512.1	230.7	186.3	172.5	166.2	166.6	165.5	163.1	163.9
52.5°	1842.4	1419.1	522.3	230.7	184.3	167.8	161.9	162.3	160.0	156.8	157.2
55°	1910.0	1445.5	514.0	230.3	183.5	163.9	157.6	158.0	155.6	151.7	152.1
57.5°	1929.2	1419.9	479.5	226.0	182.7	160.7	153.3	154.1	152.5	148.2	148.2
60°	1875.4	1326.4	416.2	216.1	180.8	158.8	150.1	151.3	150.5	146.2	146.2
62.5°	1734.3	1160.1	340.7	201.2	175.3	156.4	147.4	149.7	151.7	149.3	148.9
65°	1470.2	929.4	277.1	184.7	168.2	152.5	143.4	149.3	153.7	156.8	156.8
67.5°	1103.2	665.3	226.0	167.4	157.6	144.6	138.3	143.8	147.0	148.9	150.1
70°	672.4	391.4	178.0	147.4	142.3	132.8	128.1	122.6	118.3	117.5	117.9
72.5°	328.9	224.0	144.6	125.4	121.4	112.8	102.2	99.8	97.9	96.7	96.3
75°	181.2	156.0	119.5	104.1	97.1	86.5	84.1	80.2	79.4	77.8	78.2
77.5°	128.1	123.0	98.6	84.5	73.9	68.4	69.6	66.8	66.8	65.6	65.2
80°	96.3	96.7	75.8	61.7	54.6	52.7	53.8	53.8	53.1	52.7	52.3
82.5°	60.9	68.8	51.1	39.7	38.9	39.3	38.9	38.5	39.3	38.1	37.7
85°	42.1	49.5	31.0	23.6	23.6	23.2	24.0	23.6	24.4	23.2	23.2
87.5°	9.4	22.0	11.4	7.1	7.5	7.1	7.5	7.9	8.6	9.0	9.0
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)