

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: P629104

Luminaire Tested: GWS-SA1A-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.7 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

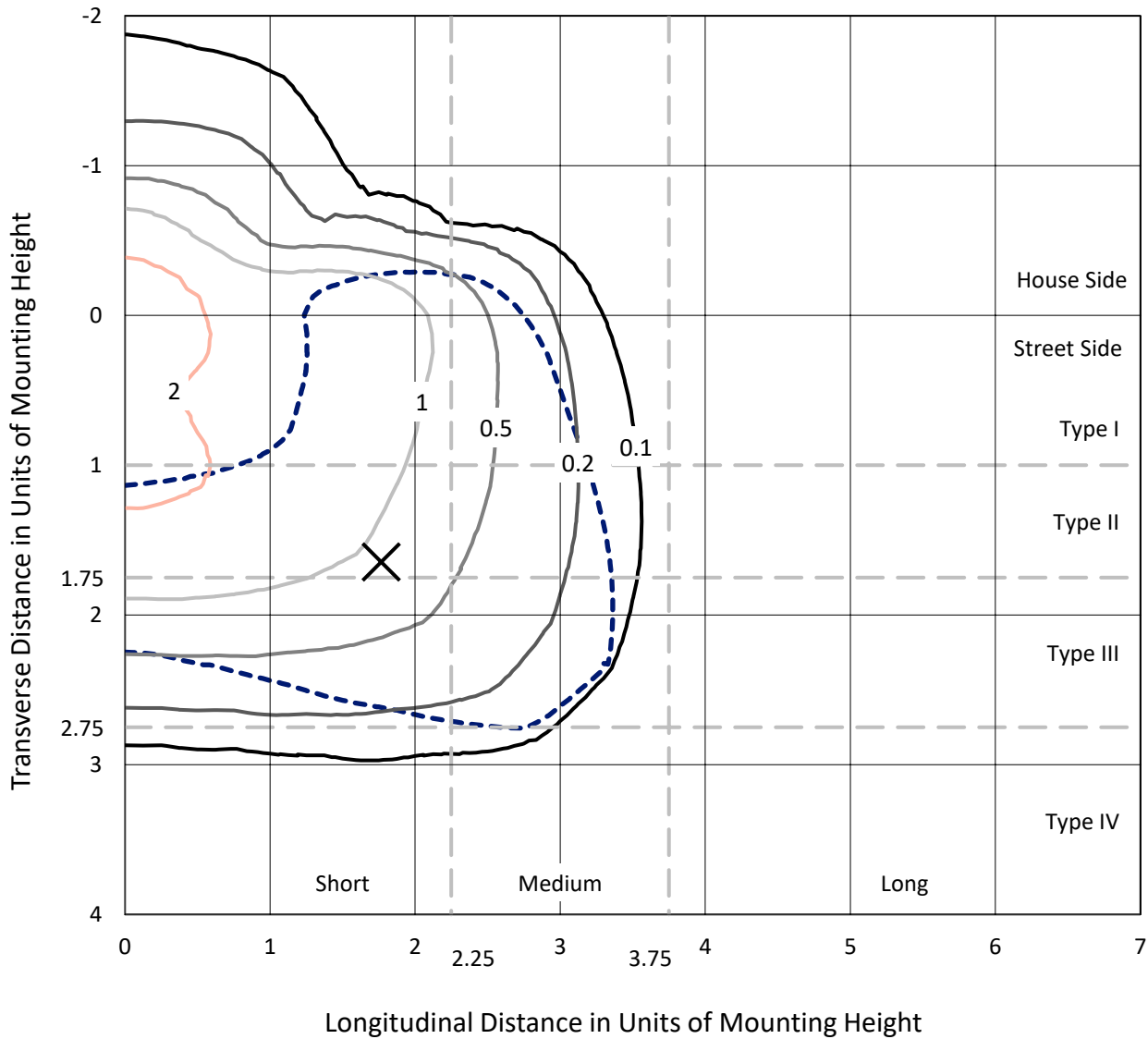
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629104
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Iso-Footcandle Lines of Horizontal Illumination

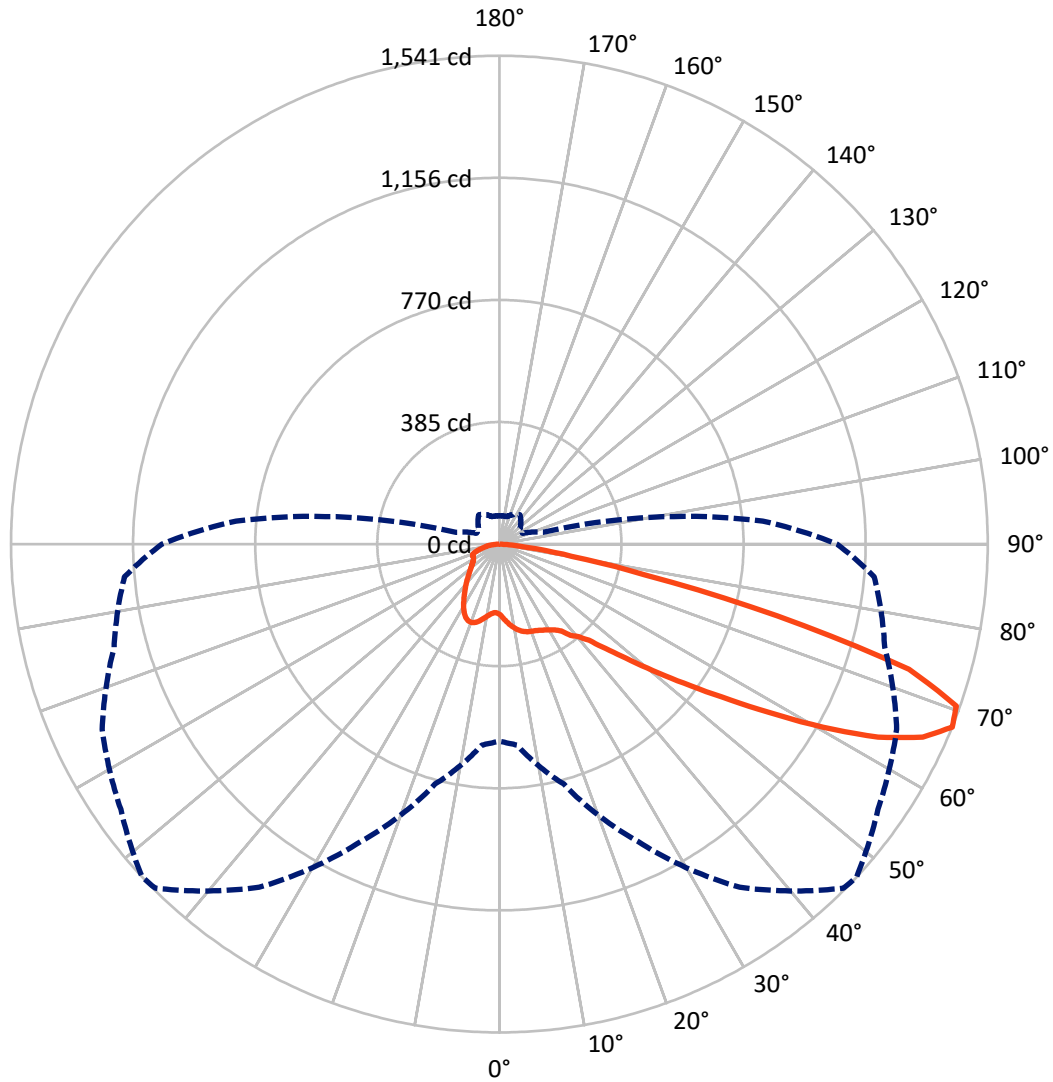
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

REPORT NUMBER: P629104
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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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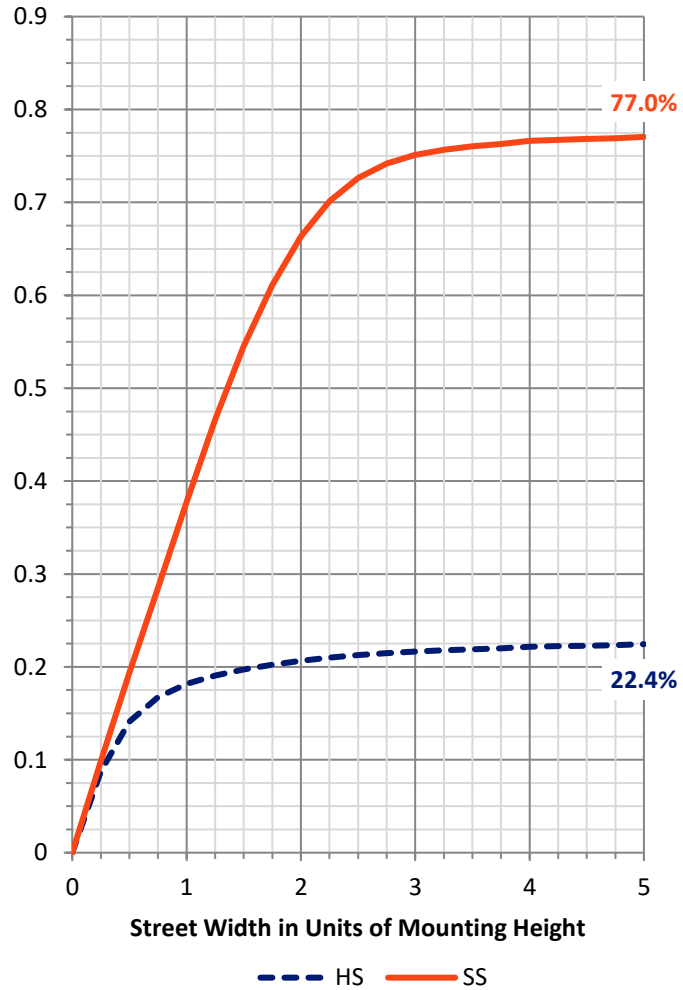
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	510.4	0.0	510.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	1729.3	0.0	1729.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	2239.7	0.0	2239.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	1.0
10°-20°	75.6	3.4
20°-30°	128.5	5.7
30°-40°	188.2	8.4
40°-50°	286.8	12.8
50°-60°	513.1	22.9
60°-70°	684.7	30.6
70°-80°	309.7	13.8
80°-90°	30.3	1.4
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°	2239.7	100.0
0°-180°	2239.7	100.0

Coefficient of Utilization



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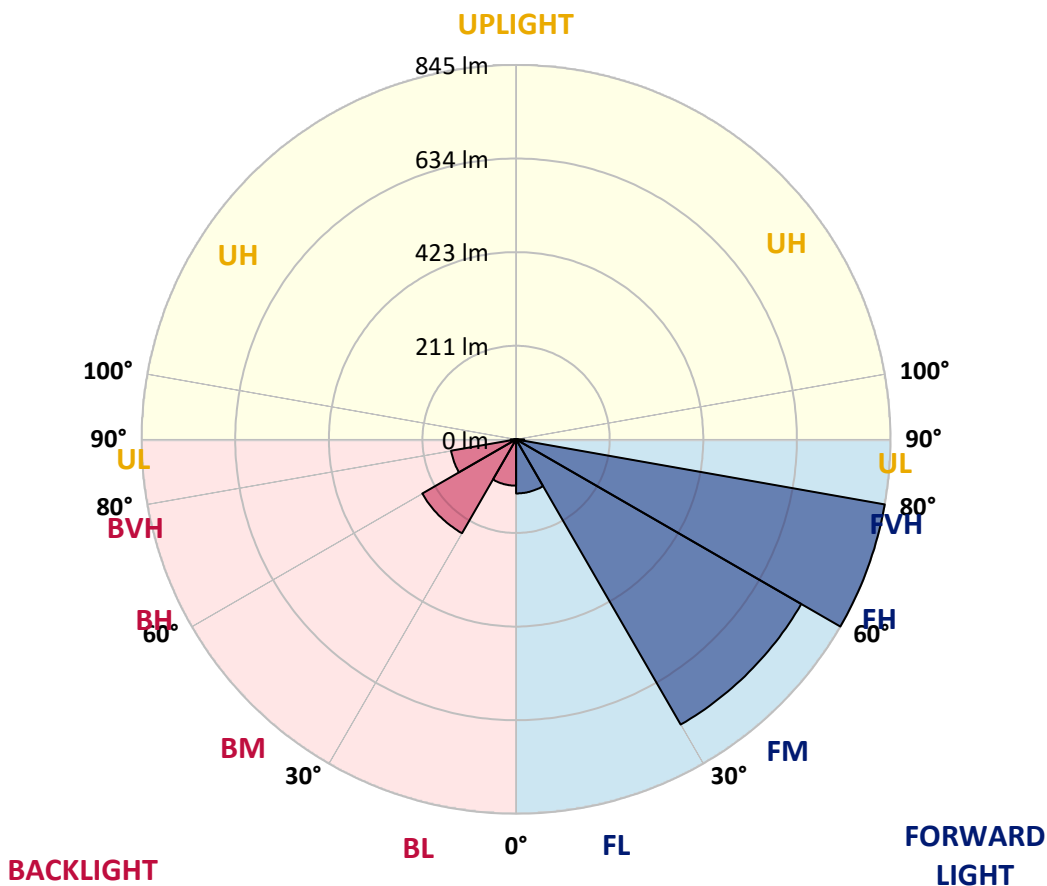
CATALOG NUMBER: GWS-SA1A-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.1	5.5			
FM (30°-60°)	743.6	33.2			
FH (60°-80°)	845.5	37.7			G1/1800
FVH (80°-90°)	18.0	0.8			G1/100
BL (0°-30°)	104.6	4.7	B0/110		
BM (30°-60°)	244.6	10.9	B1/1000		
BH (60°-80°)	148.9	6.6	B1/500		G1/500
BVH (80°-90°)	12.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P629104
 CATALOG NUMBER: GWS-SA1A-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0
2.5°	236.8	237.6	237.4	236.1	235.3	233.8	234.0	231.7	228.3	226.1	223.5
5°	257.7	258.9	257.3	255.2	252.0	247.3	246.8	241.6	235.1	230.6	225.9
7.5°	275.8	276.6	274.7	271.1	266.4	260.1	258.9	252.8	244.7	237.6	230.8
10°	289.9	290.9	288.3	283.6	277.4	271.1	270.3	264.0	255.4	247.0	238.4
12.5°	301.9	302.2	299.4	293.1	286.5	280.0	279.2	273.4	265.4	256.8	247.5
15°	308.8	309.0	305.6	298.6	292.3	286.6	286.2	281.1	273.8	265.8	255.7
17.5°	308.3	308.7	306.2	300.1	294.6	291.2	290.7	287.5	281.8	274.5	264.5
20°	302.3	302.7	301.1	297.0	294.1	293.1	293.3	292.3	288.9	282.9	272.7
22.5°	297.7	298.1	296.7	293.8	293.4	295.7	296.2	296.7	295.1	289.7	279.8
25°	299.9	300.7	298.5	294.4	295.1	300.1	301.1	302.7	301.4	296.8	288.3
27.5°	315.6	316.1	310.3	302.0	300.1	305.4	306.9	309.5	308.5	304.3	297.7
30°	352.1	351.7	339.3	319.0	310.9	313.0	314.2	317.9	318.2	315.5	309.2
32.5°	403.4	401.8	382.5	350.3	326.8	321.6	322.9	327.9	331.7	328.7	320.2
35°	457.7	456.2	435.0	397.2	356.1	338.1	336.7	340.6	346.2	338.1	325.8
37.5°	509.3	507.0	485.3	438.7	392.2	367.1	365.0	361.1	357.7	342.2	332.8
40°	566.6	564.1	545.1	492.3	432.1	389.3	384.0	368.6	365.5	355.6	350.9
42.5°	627.9	627.9	612.1	560.2	480.2	421.1	414.1	390.9	394.2	387.7	382.2
45°	689.1	690.9	678.4	628.5	544.5	481.0	469.8	436.9	444.7	441.8	439.0
47.5°	741.2	744.6	742.2	698.3	623.2	553.8	536.8	502.7	519.4	526.3	534.1
50°	797.4	801.1	798.7	781.4	715.3	642.1	626.9	591.6	620.2	641.1	666.6
52.5°	880.8	886.2	865.9	859.3	827.2	742.4	728.7	688.6	740.6	775.2	831.9
55°	951.3	951.1	944.0	959.2	947.4	864.9	849.9	813.4	879.8	916.6	999.5
57.5°	984.0	987.9	1012.3	1055.4	1079.0	1014.7	1000.3	963.1	1029.3	1048.4	1138.0
60°	1000.8	1005.7	1053.0	1138.1	1201.8	1178.3	1172.6	1125.2	1162.4	1160.2	1254.7
62.5°	977.2	986.9	1062.8	1176.0	1289.4	1342.7	1340.9	1269.2	1275.6	1253.4	1327.1
65°	868.7	879.2	998.4	1157.1	1339.4	1467.7	1468.2	1399.5	1362.6	1298.8	1315.0
67.5°	621.2	636.3	783.6	1035.3	1321.8	1535.2	1540.9	1458.6	1383.0	1258.6	1187.4
70°	338.6	349.6	465.1	752.6	1162.8	1519.0	1529.6	1430.1	1293.0	1088.7	914.0
72.5°	153.8	157.4	216.4	413.0	794.3	1307.5	1351.6	1276.3	1061.9	804.2	581.2
75°	70.4	72.1	94.3	197.6	415.1	875.0	905.9	950.6	739.0	507.9	303.0
77.5°	44.2	44.7	53.6	90.4	207.0	436.8	469.3	566.0	432.7	251.3	126.6
80°	26.1	26.6	33.4	48.9	97.2	199.8	230.8	223.8	203.4	108.5	57.7
82.5°	13.1	13.6	19.3	27.9	53.0	79.5	93.6	94.1	75.8	58.8	32.6
85°	4.7	4.9	6.3	11.0	22.5	26.2	29.3	35.8	37.1	34.2	15.7
87.5°	0.0	0.0	0.2	0.3	0.6	2.6	2.8	5.2	10.9	12.1	6.3
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-SA1A-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0
2.5°	222.7	220.2	219.4	218.6	217.3	216.8	215.9	214.9	214.9	213.9	213.4
5°	223.8	220.6	218.5	217.5	216.7	217.2	217.2	217.5	218.6	218.0	218.3
7.5°	227.9	224.1	221.2	220.4	220.4	222.3	223.6	225.3	227.4	227.7	227.7
10°	235.0	230.6	227.5	227.0	227.9	230.6	232.6	234.5	237.1	237.2	237.6
12.5°	242.8	238.4	235.3	236.0	236.8	240.3	242.4	244.0	246.6	246.6	246.5
15°	250.9	246.0	243.4	244.7	247.1	251.2	251.5	251.7	253.0	252.6	252.5
17.5°	259.3	254.1	252.1	254.1	256.7	258.6	257.0	254.7	254.3	253.6	253.3
20°	267.5	262.2	261.4	262.8	263.6	262.0	257.0	252.8	250.9	249.9	249.6
22.5°	274.7	270.1	269.6	269.6	265.6	259.9	252.5	246.8	244.2	242.9	242.6
25°	283.1	278.9	278.1	273.7	263.3	253.0	242.9	237.7	235.6	235.0	235.1
27.5°	293.0	290.0	287.5	275.0	256.8	240.6	229.3	227.0	226.2	227.0	227.5
30°	305.1	302.2	296.4	273.4	246.5	224.6	213.8	213.6	216.0	218.1	218.5
32.5°	315.0	313.7	304.1	268.2	231.9	207.0	197.7	198.4	202.8	205.7	206.2
35°	322.8	324.9	310.6	259.6	214.6	190.3	183.0	183.3	185.7	189.8	190.0
37.5°	333.8	340.9	316.4	246.5	194.7	175.9	169.2	166.8	166.5	167.6	167.9
40°	356.0	366.6	320.6	227.4	175.4	162.9	155.5	150.8	146.7	143.6	142.7
42.5°	389.5	401.8	323.1	204.2	158.2	150.1	141.7	135.7	128.6	122.1	119.8
45°	451.0	455.1	323.1	179.6	143.0	138.1	129.7	122.6	113.5	105.9	104.3
47.5°	549.5	536.5	323.4	155.8	129.6	127.6	120.3	112.2	102.2	95.9	94.9
50°	697.8	652.3	330.0	136.0	118.4	118.7	113.4	104.5	95.4	90.7	89.9
52.5°	865.9	795.0	347.9	121.5	109.0	111.4	108.5	99.9	91.8	87.8	87.0
55°	1024.0	926.2	363.1	111.1	101.1	105.3	105.1	97.2	89.9	85.8	85.3
57.5°	1158.4	1016.0	360.8	102.7	94.3	99.6	102.0	95.4	88.6	85.2	84.7
60°	1241.9	1063.6	328.6	94.9	89.1	95.5	100.2	94.9	89.2	88.4	88.6
62.5°	1278.2	1054.9	266.7	89.1	85.7	93.6	102.2	98.3	95.2	97.2	98.3
65°	1221.9	979.8	196.3	84.7	82.4	94.1	106.7	103.6	95.2	96.5	97.0
67.5°	1065.4	834.0	141.9	80.3	78.4	95.5	113.2	102.8	89.7	89.7	88.7
70°	767.8	599.8	103.0	76.0	74.3	93.4	113.5	97.3	83.4	82.9	80.5
72.5°	462.0	353.8	80.3	71.1	68.2	82.9	106.4	90.9	77.2	73.2	70.3
75°	240.0	177.3	67.4	65.7	58.5	70.3	97.3	80.8	66.1	62.5	60.9
77.5°	102.8	82.9	57.8	58.6	48.6	59.1	78.5	70.0	58.6	54.1	52.6
80°	50.7	47.1	45.7	47.0	38.9	45.7	67.7	61.2	49.7	44.5	42.4
82.5°	29.0	27.5	32.9	33.4	27.7	38.2	57.2	51.8	41.1	35.5	32.1
85°	13.4	14.4	19.9	20.1	17.2	26.2	37.4	29.1	21.9	18.1	17.3
87.5°	5.3	6.3	8.7	8.6	5.0	4.9	3.2	1.8	1.5	1.3	1.1
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

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 [^] /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

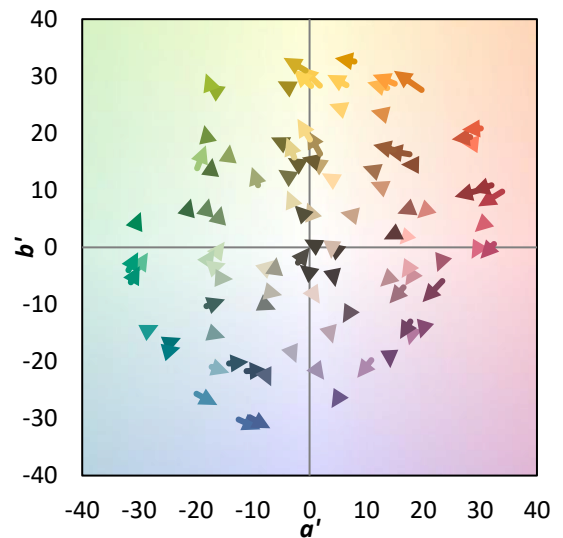
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	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)