

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: P634998

Luminaire Tested: GWS-SA3C-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10053 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

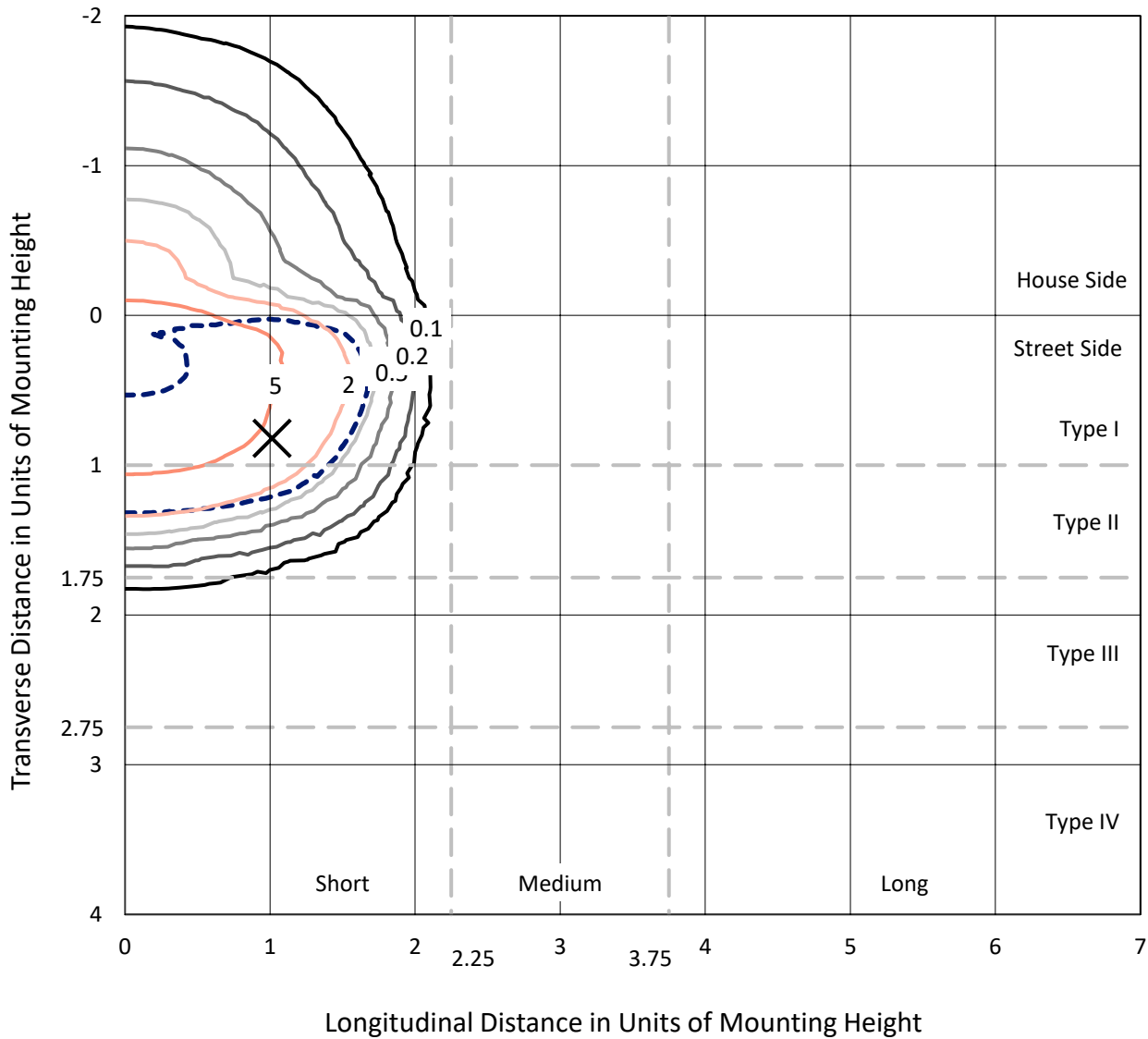
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

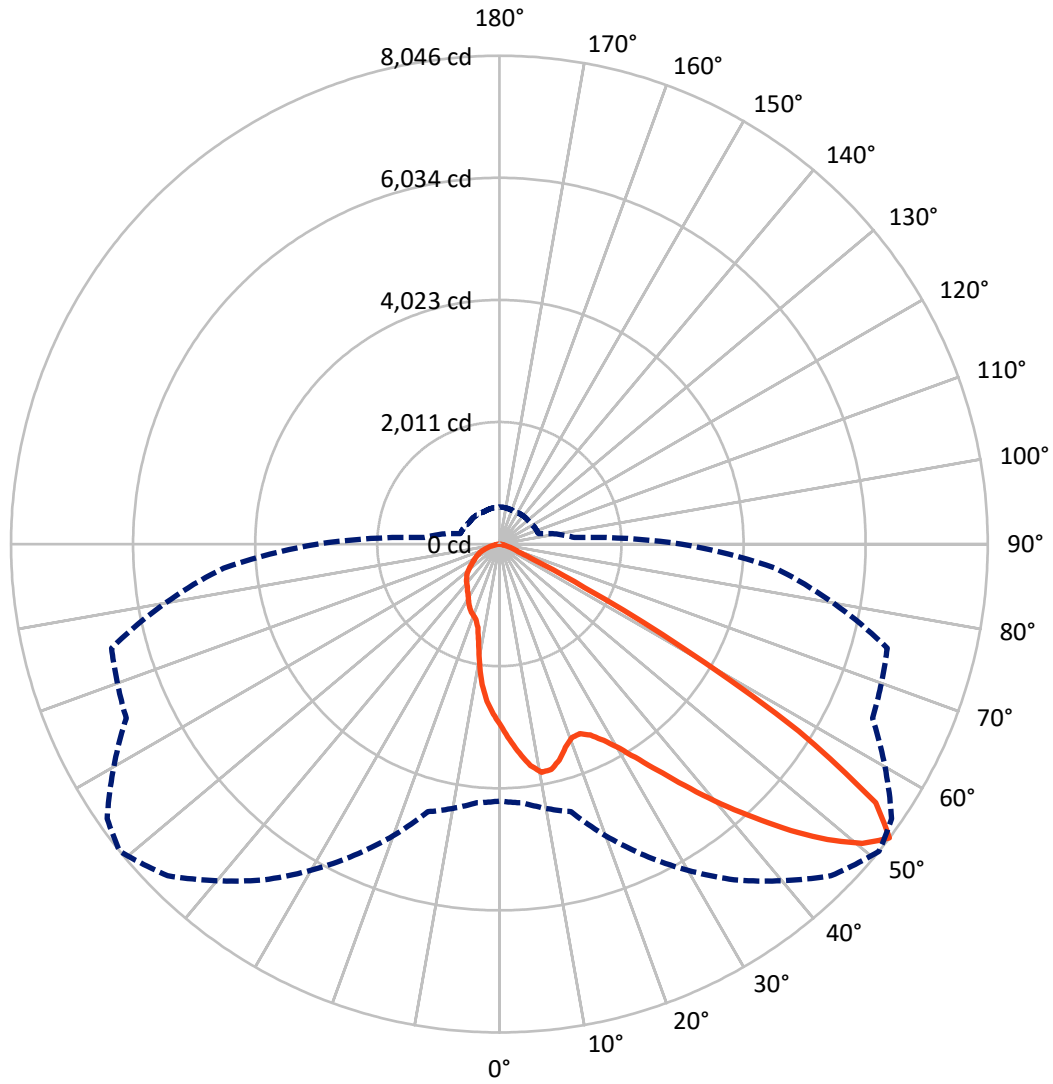
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.7	0.0	1958.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8094.3	0.0	8094.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	10053.0	0.0	10053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	2.8
10°-20°	725.8	7.2
20°-30°	1180.0	11.7
30°-40°	1870.1	18.6
40°-50°	2820.5	28.1
50°-60°	2440.0	24.3
60°-70°	553.2	5.5
70°-80°	163.1	1.6
80°-90°	21.0	0.2
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°	10053.0	100.0
0°-180°	10053.0	100.0

Coefficient of Utilization



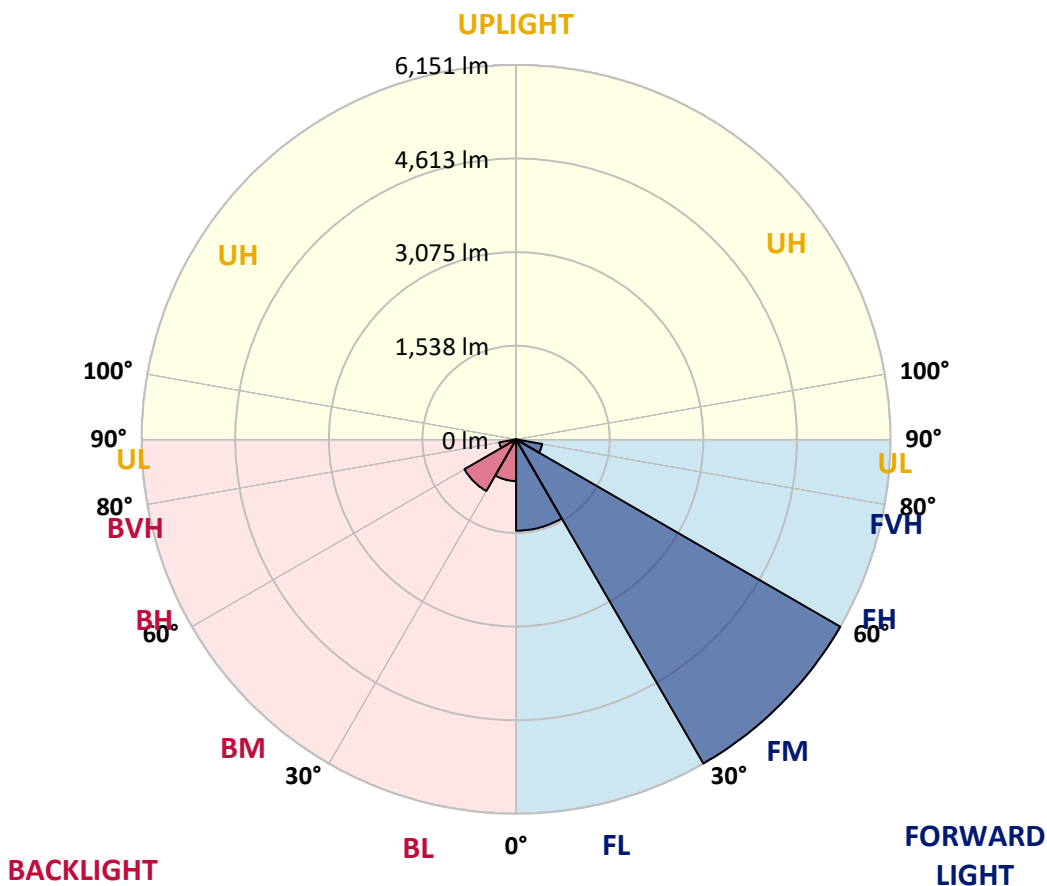
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1500.4	14.9			
FM (30°-60°)	6150.6	61.2			
FH (60°-80°)	435.3	4.3			G0/660
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	684.7	6.8	B2/1000		
BM (30°-60°)	980.0	9.7	B1/1000		
BH (60°-80°)	280.9	2.8	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
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: P634998

CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3
2.5°	3335.7	3354.7	3325.3	3314.2	3295.9	3264.2	3227.6	3217.3	3138.7	3087.0	3029.0
5°	3670.9	3681.2	3657.4	3633.6	3588.3	3531.9	3461.2	3446.1	3303.1	3184.7	3061.6
7.5°	3745.6	3741.6	3762.3	3775.8	3770.2	3748.0	3685.2	3655.8	3485.0	3297.5	3115.6
10°	3450.1	3427.8	3504.1	3594.6	3703.5	3829.0	3821.8	3819.5	3670.9	3449.3	3184.7
12.5°	3058.4	3047.3	3109.3	3222.9	3428.6	3706.6	3810.7	3891.7	3838.5	3593.8	3261.8
15°	2834.4	2830.4	2872.5	2954.4	3118.0	3469.1	3691.6	3852.0	3982.3	3748.7	3343.6
17.5°	2793.9	2796.3	2810.6	2857.4	2975.0	3264.2	3521.6	3745.6	4094.3	3918.7	3446.1
20°	2912.3	2928.1	2903.5	2910.7	2974.2	3190.3	3405.6	3638.3	4165.8	4089.5	3556.5
22.5°	3175.2	3169.6	3115.6	3083.8	3084.6	3235.6	3392.9	3588.3	4212.7	4255.6	3656.6
25°	3473.1	3466.7	3402.4	3331.7	3287.2	3358.7	3484.2	3641.5	4254.8	4407.3	3736.8
27.5°	3825.0	3805.2	3733.7	3643.1	3544.6	3575.6	3660.6	3785.3	4319.9	4556.6	3790.1
30°	4165.8	4188.8	4086.4	3979.1	3875.1	3856.0	3905.2	4018.0	4452.6	4731.4	3853.6
32.5°	4617.8	4609.9	4496.3	4356.5	4207.9	4193.6	4232.5	4335.8	4690.9	4972.9	3950.5
35°	5165.2	5166.7	5005.5	4816.4	4605.1	4567.0	4632.1	4732.2	5046.0	5300.2	4103.8
37.5°	5733.9	5731.6	5591.0	5376.5	5088.1	5034.1	5108.8	5183.4	5490.1	5745.9	4342.2
40°	6132.7	6148.6	6082.7	5969.9	5696.6	5564.7	5630.7	5682.3	5973.1	6270.2	4655.9
42.5°	6359.1	6383.0	6397.3	6464.8	6321.0	6180.4	6156.6	6183.6	6404.4	6757.1	4950.7
45°	6407.6	6439.4	6543.4	6793.7	6849.3	6809.6	6731.7	6666.6	6726.1	7102.7	5143.7
47.5°	6193.9	6249.5	6471.9	6909.6	7234.6	7359.3	7272.7	7173.4	6912.0	7191.7	5123.8
50°	5347.1	5412.2	5913.5	6672.9	7289.4	7743.8	7751.7	7604.7	6889.8	6935.1	4874.4
52.5°	4233.3	4277.8	4564.6	5656.9	6751.6	7727.9	8045.6	7888.3	6782.5	6614.1	4562.2
55°	2530.1	2601.6	2869.4	3732.1	5259.7	6849.3	7526.1	7602.4	6730.1	6344.8	4349.3
57.5°	854.0	888.9	1144.7	1648.4	3099.7	5015.0	5815.0	6124.8	6109.7	5933.3	3933.8
60°	406.7	414.7	466.3	625.2	1240.8	2620.7	3442.1	3799.6	4125.3	4157.9	2447.5
62.5°	309.8	314.6	340.8	375.0	498.9	1104.2	1577.7	1850.9	1977.2	1696.8	891.3
65°	259.0	262.9	282.8	304.3	339.2	478.2	605.3	698.3	629.2	490.1	425.0
67.5°	216.1	219.3	234.3	257.4	281.2	320.1	336.0	345.6	362.2	406.7	390.8
70°	169.2	172.4	188.3	208.1	231.2	240.7	255.8	265.3	298.7	355.9	354.3
72.5°	130.3	134.3	143.0	155.7	174.8	184.3	201.0	212.1	231.2	277.2	296.3
75°	95.3	97.7	105.7	109.6	112.0	109.6	126.3	139.0	164.4	181.9	186.7
77.5°	38.9	43.7	42.1	42.1	50.0	60.4	69.1	77.1	94.5	104.9	105.7
80°	15.9	17.5	20.7	23.0	27.8	35.7	41.3	44.5	52.4	58.8	63.6
82.5°	9.5	10.3	11.9	12.7	15.9	20.7	23.8	26.2	32.6	38.9	41.3
85°	4.8	4.8	5.6	6.4	7.9	9.5	11.1	12.7	16.7	20.7	23.0
87.5°	0.8	0.8	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.9
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: P634998
 CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3
2.5°	2994.9	2952.0	2901.9	2862.2	2816.1	2782.0	2733.5	2703.3	2674.7	2650.9	2633.4
5°	2998.0	2925.8	2821.7	2729.5	2634.2	2543.7	2450.7	2375.2	2307.7	2251.3	2246.5
7.5°	3016.3	2912.3	2749.4	2588.1	2402.2	2222.7	2043.2	1897.0	1785.8	1727.8	1715.9
10°	3047.3	2910.7	2675.5	2418.1	2101.2	1812.0	1599.1	1487.9	1423.6	1400.5	1392.6
12.5°	3079.9	2906.7	2581.0	2178.2	1738.1	1484.7	1367.9	1354.4	1366.4	1367.9	1367.2
15°	3119.6	2904.3	2461.8	1897.0	1472.8	1333.0	1340.9	1369.5	1397.3	1403.7	1403.7
17.5°	3168.0	2898.7	2299.8	1622.2	1306.8	1303.6	1345.7	1383.8	1410.1	1414.8	1414.8
20°	3218.9	2884.4	2100.4	1398.1	1239.3	1285.3	1330.6	1360.0	1378.3	1384.6	1385.4
22.5°	3253.8	2846.3	1870.8	1232.1	1197.2	1250.4	1282.9	1313.1	1313.1	1297.2	1292.5
25°	3261.0	2764.5	1622.2	1118.5	1147.1	1196.4	1229.7	1212.2	1179.7	1167.0	1166.2
27.5°	3234.8	2645.3	1376.7	1037.5	1086.7	1136.0	1130.4	1105.0	1090.7	1078.0	1082.8
30°	3203.0	2502.3	1163.8	970.8	1016.8	1065.3	1046.2	1037.5	1027.2	1012.9	1016.0
32.5°	3181.6	2342.7	1000.1	919.1	970.0	977.9	991.4	990.6	981.1	954.1	952.5
35°	3187.9	2181.4	890.5	877.0	931.0	927.9	953.3	948.5	882.6	845.2	842.9
37.5°	3238.7	2026.5	826.2	843.6	869.1	888.9	911.2	854.0	830.9	807.1	808.7
40°	3335.7	1882.7	791.2	825.4	831.7	861.1	809.5	808.7	798.4	776.9	776.1
42.5°	3445.3	1761.2	767.4	816.6	807.9	813.5	758.6	765.0	764.2	750.7	746.7
45°	3512.0	1649.2	748.3	784.1	786.5	730.8	714.2	721.3	725.3	718.1	717.3
47.5°	3442.9	1520.5	728.5	734.0	754.7	693.5	672.9	673.6	680.8	681.6	678.4
50°	3249.1	1376.7	704.6	691.1	677.6	654.6	635.5	631.5	638.7	645.8	648.2
52.5°	2998.8	1239.3	664.9	644.3	612.5	612.5	603.7	591.0	600.6	610.1	613.3
55°	2815.3	1137.6	608.5	585.5	550.5	562.4	560.8	549.7	562.4	569.6	572.0
57.5°	2439.6	914.3	535.4	528.3	498.9	513.2	516.4	502.1	495.7	497.3	499.7
60°	1448.2	590.2	483.0	482.2	456.0	472.7	482.2	467.9	448.8	451.2	454.4
62.5°	649.8	451.2	417.1	413.9	413.1	434.5	444.9	431.4	404.3	406.7	409.9
65°	409.1	390.0	362.2	362.2	375.0	393.2	401.2	390.0	359.1	355.1	358.3
67.5°	379.7	363.0	334.4	328.9	335.2	350.3	351.1	329.7	311.4	308.2	308.2
70°	340.8	328.1	300.3	289.2	286.8	286.0	283.6	278.0	266.1	262.9	264.5
72.5°	282.0	273.3	255.8	243.9	237.5	236.7	227.2	222.4	212.1	210.5	209.7
75°	186.7	189.1	189.1	187.5	181.9	179.5	169.2	164.4	152.5	147.8	147.0
77.5°	110.4	112.8	116.0	116.8	116.0	116.0	106.4	100.9	89.0	82.6	81.0
80°	67.5	69.1	70.7	73.1	69.9	67.5	58.8	53.2	47.7	43.7	42.9
82.5°	43.7	45.3	46.1	47.7	46.1	42.9	35.7	32.6	28.6	25.4	24.6
85°	24.6	25.4	27.0	27.0	24.6	22.2	18.3	15.9	13.5	11.9	11.9
87.5°	8.7	8.7	8.7	9.5	7.9	7.1	4.8	3.2	2.4	2.4	2.4
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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

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)