

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: P629093

Luminaire Tested: GWS-SA1A-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629093
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-SA1A-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

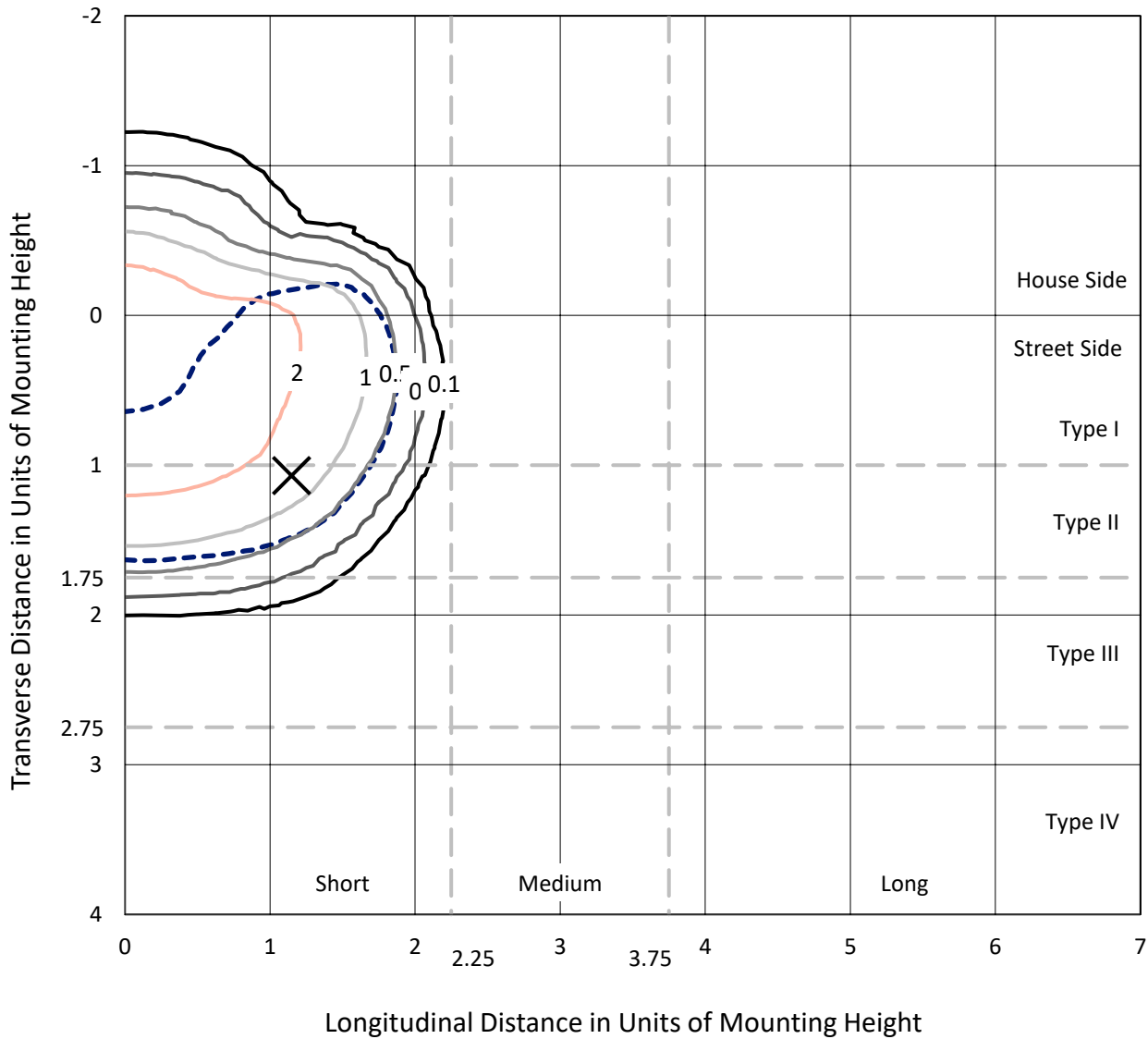
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

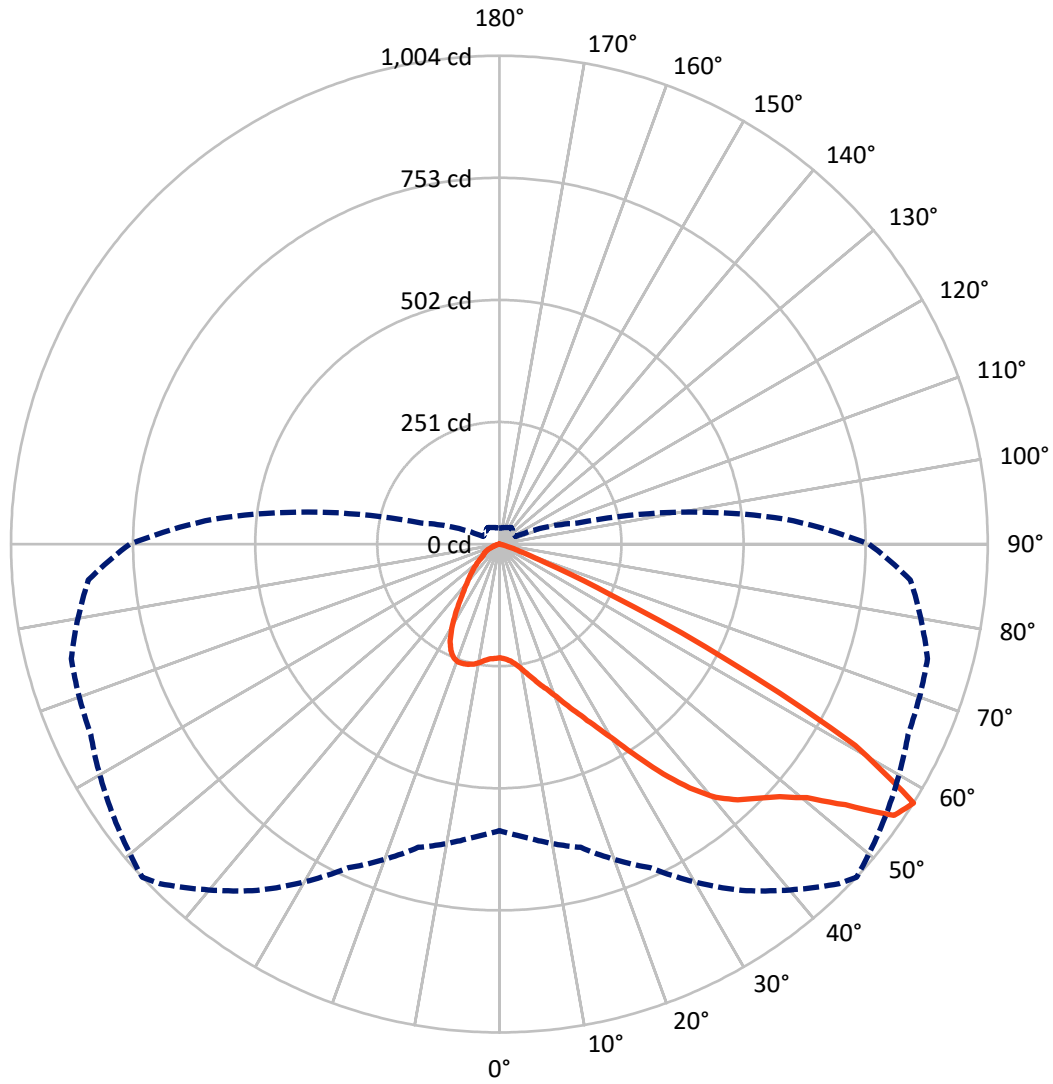
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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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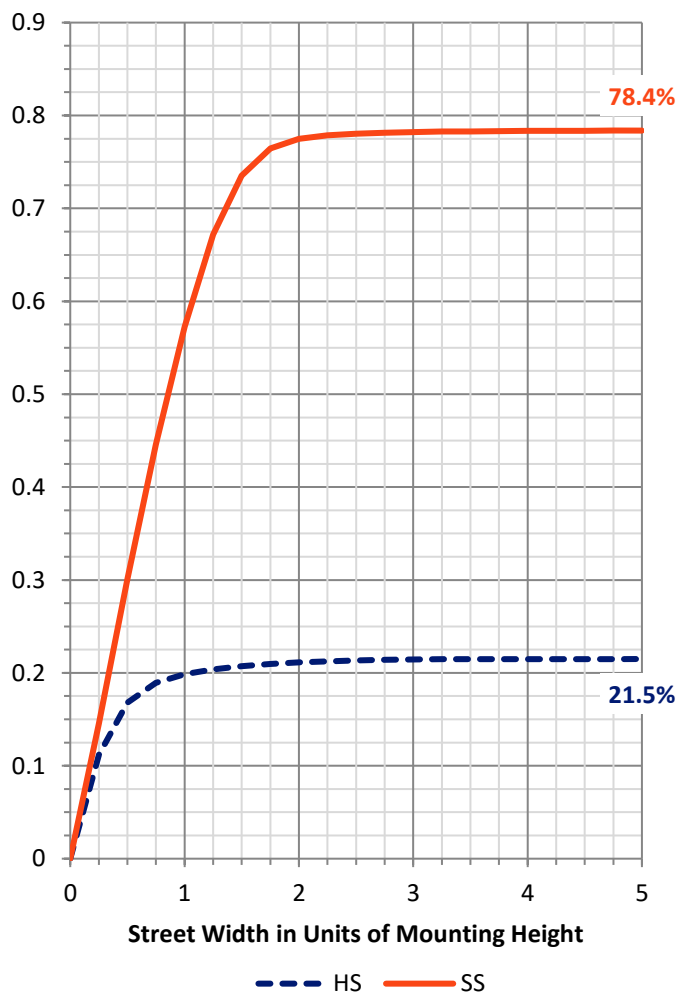
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.7	0.0	302.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1092.4	0.0	1092.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	1395.0	0.0	1395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	1.7
10°-20°	78.4	5.6
20°-30°	145.6	10.4
30°-40°	233.0	16.7
40°-50°	340.6	24.4
50°-60°	420.4	30.1
60°-70°	140.5	10.1
70°-80°	13.1	0.9
80°-90°	0.3	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°	1395.0	100.0
0°-180°	1395.0	100.0

Coefficient of Utilization



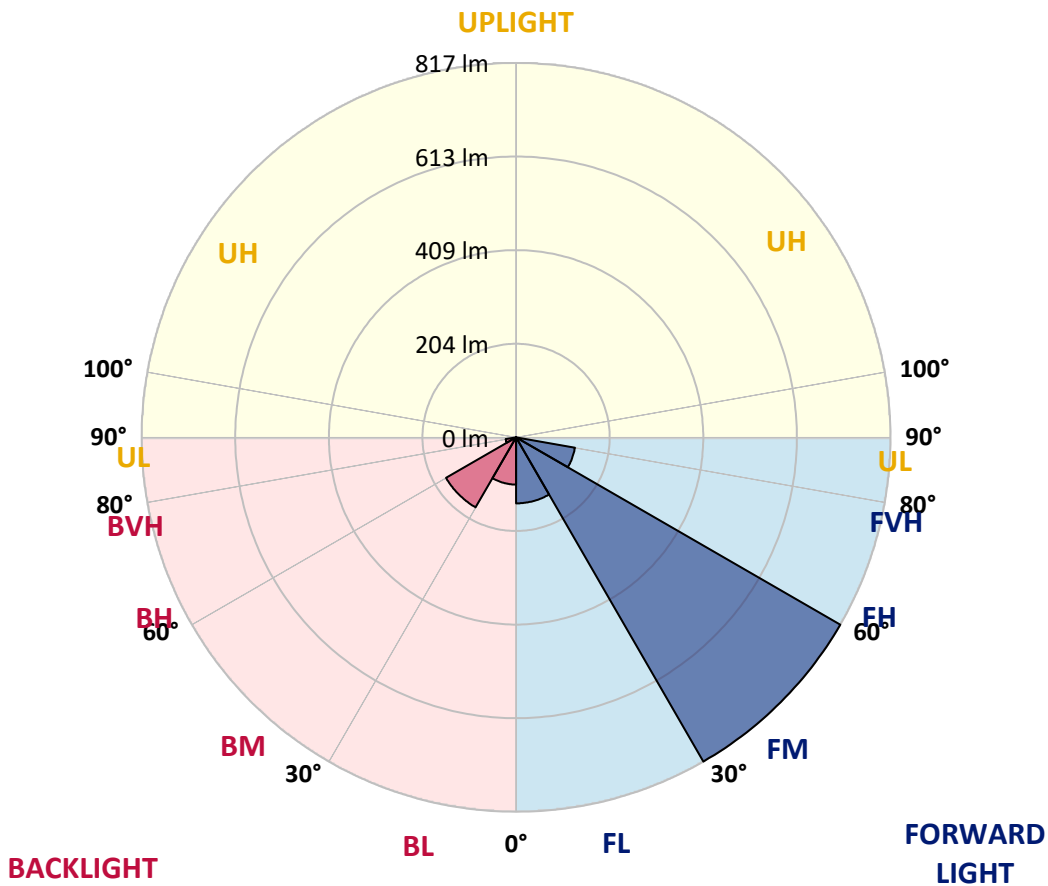
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.2	10.3			
FM (30°-60°)	817.5	58.6			
FH (60°-80°)	130.5	9.4			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	103.0	7.4	B0/110		
BM (30°-60°)	176.5	12.7	B0/220		
BH (60°-80°)	23.0	1.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5
2.5°	236.0	235.8	235.6	236.6	236.3	236.1	236.4	236.4	236.4	235.5	233.5
5°	241.6	241.6	241.5	242.4	241.6	241.1	241.3	241.3	240.7	238.9	236.4
7.5°	250.5	250.2	249.9	250.9	250.0	249.9	250.2	249.2	248.1	245.2	241.8
10°	263.3	263.3	262.8	263.8	263.2	262.8	262.8	262.2	260.1	255.5	250.5
12.5°	281.0	280.2	279.0	278.2	277.9	277.7	277.9	276.9	274.7	268.8	261.9
15°	300.2	299.6	297.8	296.5	294.7	294.4	295.4	294.6	292.3	284.4	274.5
17.5°	324.5	325.3	320.8	318.1	312.9	312.6	312.9	314.2	312.6	302.4	287.9
20°	345.3	345.9	342.5	340.6	335.9	333.8	334.4	336.5	334.7	322.8	302.7
22.5°	367.5	368.3	364.7	360.7	358.5	358.5	361.0	363.9	361.5	345.8	319.5
25°	394.0	394.7	391.7	386.4	382.7	387.4	390.9	398.7	394.7	373.3	339.4
27.5°	424.5	424.6	420.4	414.9	413.0	421.7	425.3	437.3	435.6	404.2	360.5
30°	457.0	457.2	456.2	452.5	450.7	462.2	467.0	484.4	483.2	442.6	389.2
32.5°	490.9	490.9	492.6	492.3	494.4	513.2	521.0	540.7	539.6	489.6	424.8
35°	524.9	525.0	528.1	535.9	544.6	569.6	579.8	603.7	601.1	545.8	470.3
37.5°	563.6	561.9	566.2	577.8	597.3	626.1	635.8	658.6	655.7	603.2	529.7
40°	610.2	607.3	607.3	620.9	642.9	676.1	684.4	695.7	685.8	649.7	588.0
42.5°	661.7	659.0	655.4	667.4	685.8	711.7	718.5	715.5	707.4	693.6	654.4
45°	713.9	709.6	712.1	719.4	730.0	742.4	744.9	730.7	727.0	730.9	709.3
47.5°	753.5	750.6	756.6	766.8	775.6	777.3	775.6	755.8	755.5	769.2	747.4
50°	766.8	767.1	783.7	806.0	820.1	821.5	819.1	796.4	793.4	797.4	767.9
52.5°	768.1	769.4	793.5	836.1	874.5	892.0	890.0	865.6	835.5	831.1	799.0
55°	736.8	744.5	778.1	840.3	922.0	977.8	984.3	937.5	892.8	889.1	865.9
57.5°	589.0	604.5	645.2	733.8	869.0	986.7	1003.6	969.9	926.6	910.8	847.9
60°	352.1	371.3	410.4	519.0	661.4	811.0	840.0	844.7	824.8	779.0	650.5
62.5°	151.1	149.5	197.6	280.8	393.4	515.5	528.6	549.0	566.3	518.4	394.8
65°	51.8	56.4	78.4	126.6	196.9	239.4	251.0	269.3	293.9	242.6	144.6
67.5°	32.1	34.0	45.2	74.8	106.2	104.6	99.4	96.5	93.9	64.3	39.7
70°	23.3	24.9	31.7	51.5	71.4	50.2	43.6	35.3	39.2	36.1	28.2
72.5°	15.7	17.0	21.9	31.3	36.6	24.5	22.7	25.7	31.1	29.6	23.0
75°	9.4	10.2	12.5	15.2	14.9	12.6	12.8	18.1	23.8	22.2	16.4
77.5°	6.5	6.8	8.3	9.9	7.3	3.9	3.6	5.0	8.1	8.1	5.5
80°	1.6	2.1	2.1	1.3	1.1	1.0	1.0	1.5	2.3	1.6	0.8
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
87.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5
2.5°	234.7	232.7	234.0	233.7	234.7	235.0	233.5	233.2	233.4	231.4	230.8
5°	236.9	234.7	235.3	234.7	235.8	236.8	236.3	236.9	237.7	236.3	235.6
7.5°	241.8	239.5	239.4	238.4	240.0	240.7	240.5	242.3	243.9	242.9	241.9
10°	250.2	247.1	246.8	246.0	246.5	247.0	245.2	245.5	247.0	245.8	245.3
12.5°	260.6	256.8	256.0	254.1	254.1	251.7	247.8	247.0	248.1	247.3	246.5
15°	271.7	266.7	265.4	262.0	258.8	254.3	250.2	249.2	250.0	249.1	248.4
17.5°	284.2	278.5	274.3	268.3	261.2	255.9	251.3	249.2	247.9	246.0	245.8
20°	296.5	289.1	281.9	272.4	263.0	254.9	247.5	241.9	237.2	234.3	233.2
22.5°	310.8	299.8	288.3	274.8	261.4	249.1	236.0	226.6	218.5	215.7	214.4
25°	326.0	311.7	294.6	277.1	255.9	236.1	218.3	204.4	193.7	190.1	188.7
27.5°	342.8	323.2	301.1	276.6	244.5	217.7	194.0	176.7	166.2	162.9	164.1
30°	364.2	338.1	309.2	271.6	227.5	191.7	164.1	149.5	141.5	138.5	138.6
32.5°	392.7	359.5	321.0	260.9	205.7	162.3	138.0	127.3	121.9	117.9	117.6
35°	433.5	392.1	332.0	243.7	179.1	136.0	118.4	110.0	102.5	97.8	98.6
37.5°	482.4	433.0	338.0	220.6	149.3	115.6	103.6	95.1	86.6	79.7	80.5
40°	540.4	486.6	337.5	190.1	122.1	101.7	91.3	81.3	70.8	64.5	65.1
42.5°	605.0	537.3	327.0	157.9	101.2	90.4	79.5	66.9	56.7	52.8	53.0
45°	661.1	578.5	308.5	124.5	85.2	79.4	67.2	54.3	49.7	47.0	46.8
47.5°	702.5	608.6	282.1	98.0	72.2	69.3	55.2	48.6	45.0	42.8	42.4
50°	725.7	619.1	253.0	76.8	61.1	58.8	49.4	44.0	41.6	40.2	39.8
52.5°	756.8	631.7	232.1	60.6	51.2	48.1	45.5	41.0	39.4	38.2	37.7
55°	806.0	656.2	213.9	48.1	42.6	41.9	42.9	39.2	38.2	36.4	35.8
57.5°	759.7	589.5	166.2	37.2	36.0	38.4	41.5	37.4	35.0	33.4	32.7
60°	534.6	391.9	83.6	30.0	32.1	36.0	39.0	33.8	31.4	31.7	31.4
62.5°	294.7	196.1	37.6	25.1	27.9	31.7	33.4	29.3	27.7	30.4	30.9
65°	96.4	66.7	21.7	19.4	22.0	25.9	28.8	27.9	27.5	30.8	31.7
67.5°	29.6	22.0	14.7	13.9	15.2	19.1	24.3	30.1	32.4	33.4	33.8
70°	22.2	17.3	12.6	11.8	12.5	14.6	20.6	25.1	23.6	23.8	23.5
72.5°	17.8	13.8	10.9	10.4	10.4	10.0	10.9	13.6	15.4	16.2	16.2
75°	12.5	9.7	8.3	7.6	6.0	4.9	4.4	4.4	3.9	3.7	3.6
77.5°	4.2	3.6	3.2	2.6	1.8	1.5	1.3	1.1	0.8	0.5	0.3
80°	0.6	0.5	0.3	0.3	0.3	0.2	0.2	0.2	0.0	0.0	0.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	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)