

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: P633513

Luminaire Tested: GWS-SA2E-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633513
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-SA2E-830-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10515.3 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

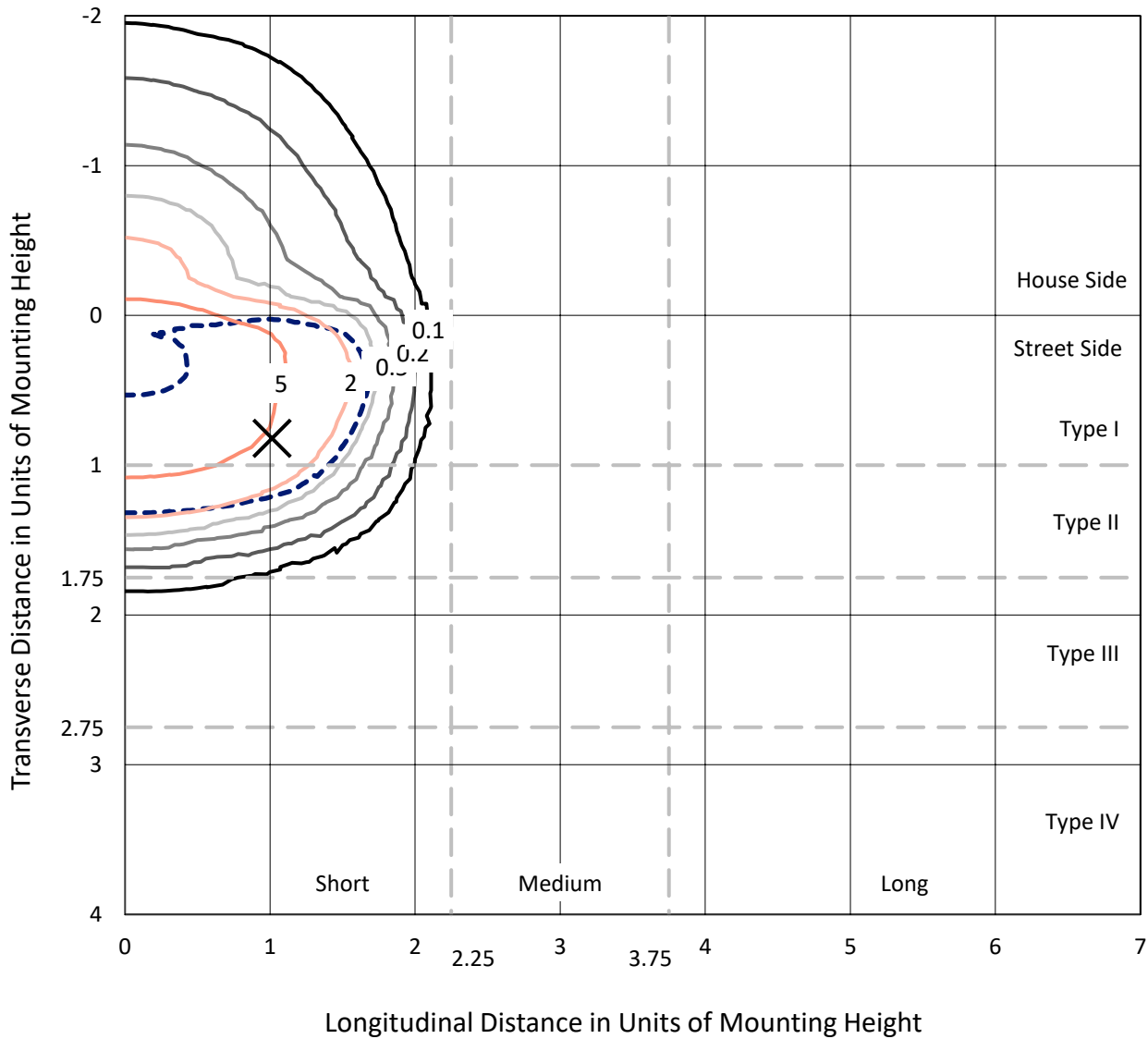
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

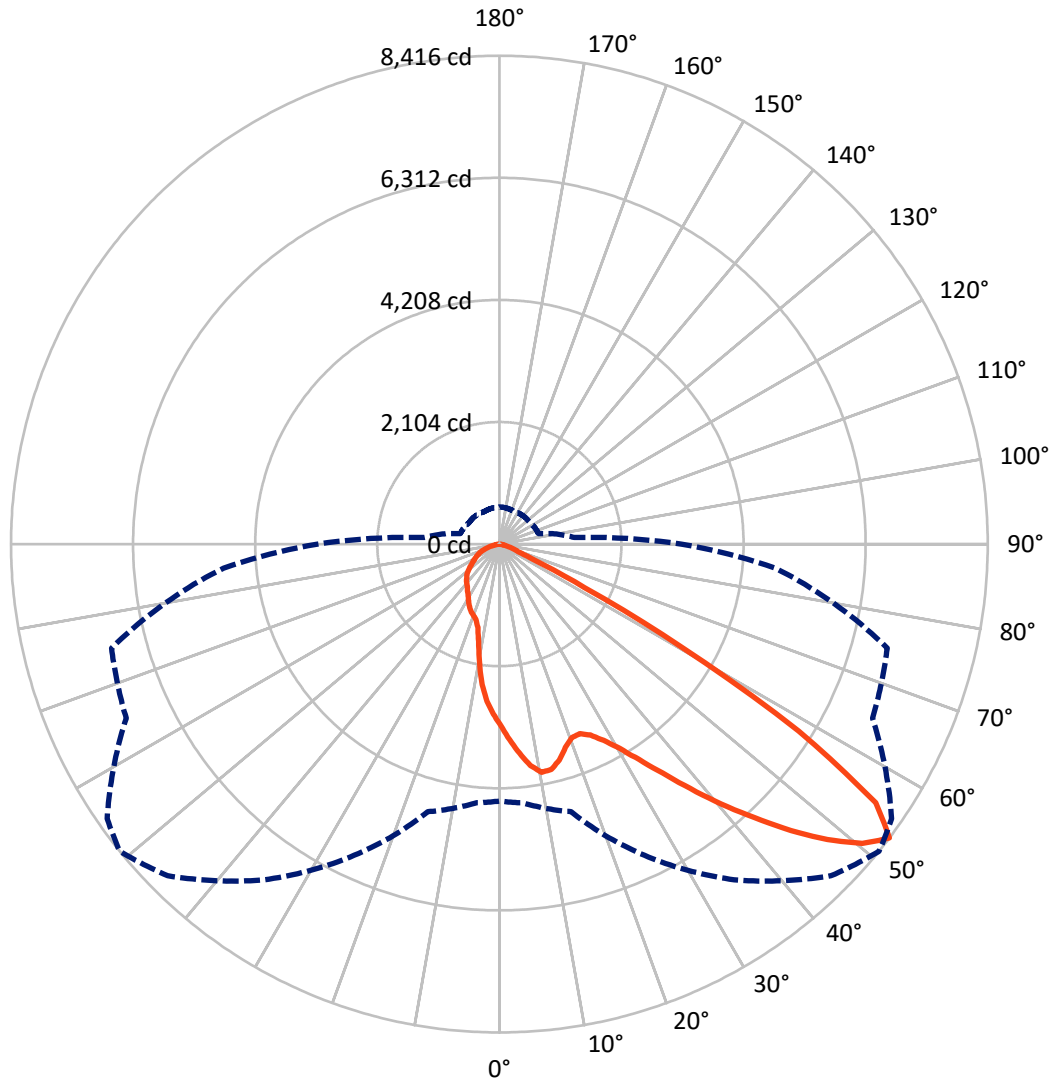
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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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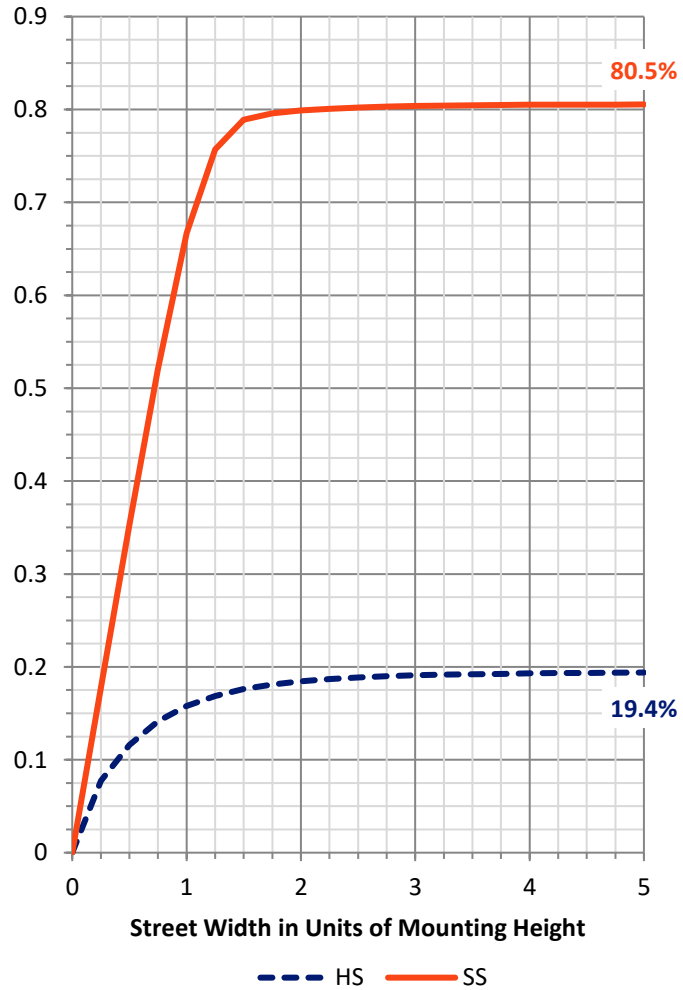
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.8	0.0	2048.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8466.5	0.0	8466.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	10515.3	0.0	10515.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	2.8
10°-20°	759.1	7.2
20°-30°	1234.3	11.7
30°-40°	1956.1	18.6
40°-50°	2950.2	28.1
50°-60°	2552.2	24.3
60°-70°	578.6	5.5
70°-80°	170.6	1.6
80°-90°	22.0	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°	10515.3	100.0
0°-180°	10515.3	100.0

Coefficient of Utilization



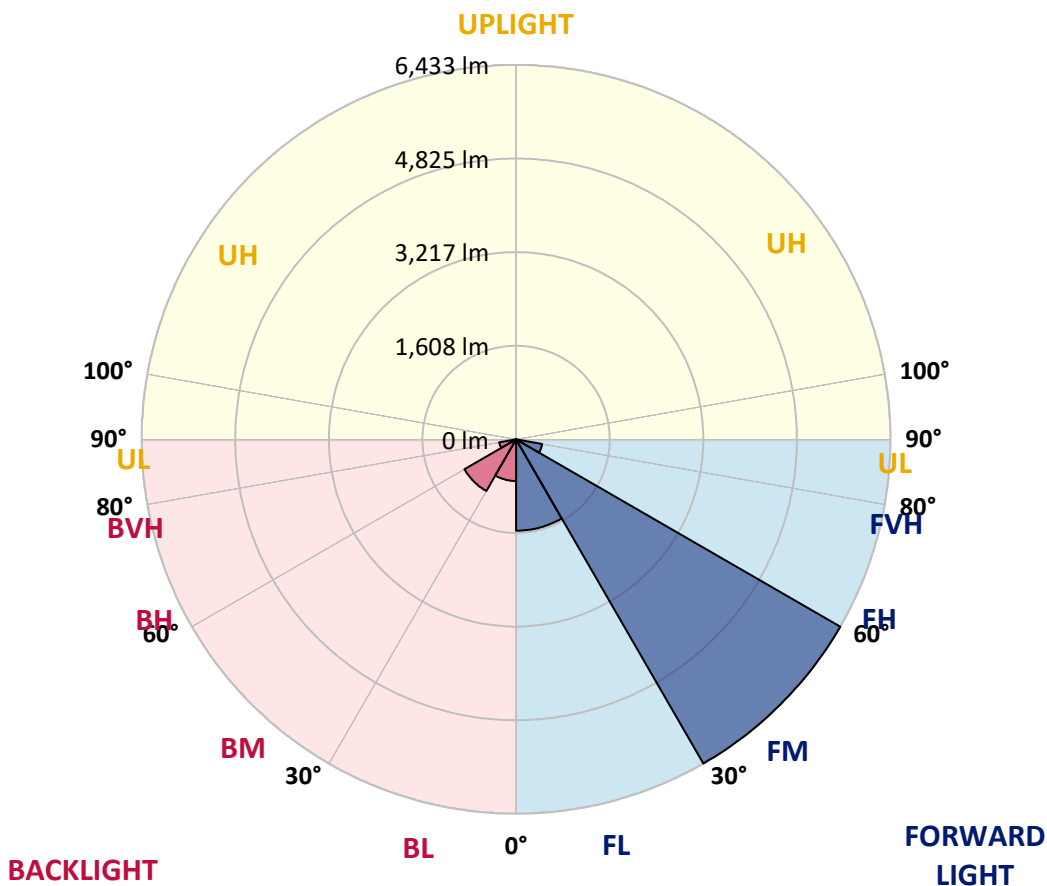
REPORT NUMBER: P633513

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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°)	1569.4	14.9			
FM (30°-60°)	6433.4	61.2			
FH (60°-80°)	455.4	4.3			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	716.2	6.8	B2/1000		
BM (30°-60°)	1025.1	9.7	B2/2500		
BH (60°-80°)	293.9	2.8	B1/500		G1/500
BVH (80°-90°)	13.7	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: P633513

CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9
2.5°	3489.1	3509.0	3478.3	3466.6	3447.5	3414.3	3376.1	3365.3	3283.0	3229.0	3168.3
5°	3839.7	3850.5	3825.6	3800.7	3753.3	3694.3	3620.3	3604.6	3455.0	3331.2	3202.4
7.5°	3917.8	3913.7	3935.3	3949.4	3943.6	3920.3	3854.7	3823.9	3645.3	3449.2	3258.9
10°	3608.7	3585.4	3665.2	3759.9	3873.8	4005.1	3997.6	3995.1	3839.7	3607.9	3331.2
12.5°	3199.1	3187.4	3252.2	3371.1	3586.3	3877.1	3986.0	4070.7	4015.0	3759.1	3411.8
15°	2964.7	2960.6	3004.6	3090.2	3261.4	3628.7	3861.3	4029.2	4165.4	3921.1	3497.4
17.5°	2922.4	2924.9	2939.8	2988.8	3111.8	3414.3	3683.5	3917.8	4282.6	4099.0	3604.6
20°	3046.2	3062.8	3037.0	3044.5	3111.0	3337.0	3562.2	3805.6	4357.4	4277.6	3720.1
22.5°	3321.2	3315.4	3258.9	3225.7	3226.5	3384.4	3548.9	3753.3	4406.4	4451.3	3824.8
25°	3632.8	3626.2	3558.9	3484.9	3438.4	3513.2	3644.4	3809.0	4450.4	4610.0	3908.7
27.5°	4000.9	3980.1	3905.4	3810.6	3707.6	3740.0	3828.9	3959.4	4518.6	4766.2	3964.3
30°	4357.4	4381.5	4274.3	4162.1	4053.3	4033.3	4084.8	4202.8	4657.3	4949.0	4030.8
32.5°	4830.2	4821.9	4703.0	4556.8	4401.4	4386.5	4427.2	4535.2	4906.6	5201.6	4132.2
35°	5402.7	5404.3	5235.7	5037.9	4816.9	4777.0	4845.1	4949.8	5278.0	5543.9	4292.6
37.5°	5997.6	5995.1	5848.1	5623.7	5322.1	5265.6	5343.7	5421.8	5742.5	6010.1	4541.8
40°	6414.7	6431.4	6362.4	6244.4	5958.6	5820.6	5889.6	5943.6	6247.7	6558.5	4870.1
42.5°	6651.6	6676.5	6691.4	6762.1	6611.7	6464.6	6439.7	6467.9	6698.9	7067.9	5178.3
45°	6702.2	6735.5	6844.3	7106.1	7164.2	7122.7	7041.3	6973.1	7035.5	7429.3	5380.2
47.5°	6478.7	6536.9	6769.6	7227.4	7567.2	7697.7	7607.1	7503.3	7229.9	7522.4	5359.5
50°	5593.0	5661.1	6185.4	6979.8	7624.6	8099.9	8108.2	7954.5	7206.6	7254.0	5098.6
52.5°	4428.0	4474.5	4774.5	5917.0	7062.0	8083.2	8415.6	8251.1	7094.4	6918.3	4772.0
55°	2646.5	2721.3	3001.3	3903.7	5501.6	7164.2	7872.2	7952.0	7039.6	6636.6	4549.3
57.5°	893.2	929.8	1197.4	1724.2	3242.3	5245.6	6082.4	6406.4	6390.7	6206.2	4114.7
60°	425.4	433.7	487.8	653.9	1297.9	2741.2	3600.4	3974.3	4315.0	4349.1	2560.1
62.5°	324.1	329.0	356.5	392.2	521.8	1155.0	1650.2	1936.1	2068.2	1774.9	932.3
65°	270.9	275.0	295.8	318.2	354.8	500.2	633.2	730.4	658.1	512.7	444.5
67.5°	226.0	229.3	245.1	269.2	294.1	334.9	351.5	361.5	378.9	425.4	408.8
70°	177.0	180.3	196.9	217.7	241.8	251.8	267.6	277.5	312.4	372.3	370.6
72.5°	136.3	140.4	149.6	162.9	182.8	192.8	210.2	221.9	241.8	290.0	309.9
75°	99.7	102.2	110.5	114.7	117.2	114.7	132.1	145.4	172.0	190.3	195.3
77.5°	40.7	45.7	44.0	44.0	52.3	63.2	72.3	80.6	98.9	109.7	110.5
80°	16.6	18.3	21.6	24.1	29.1	37.4	43.2	46.5	54.8	61.5	66.5
82.5°	10.0	10.8	12.5	13.3	16.6	21.6	24.9	27.4	34.1	40.7	43.2
85°	5.0	5.0	5.8	6.6	8.3	10.0	11.6	13.3	17.4	21.6	24.1
87.5°	0.8	0.8	0.8	1.7	2.5	3.3	4.2	5.0	5.8	6.6	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



REPORT NUMBER: P633513

CATALOG NUMBER: GWS-SA2E-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9	3130.9
2.5°	3132.6	3087.7	3035.4	2993.8	2945.6	2909.9	2859.2	2827.6	2797.7	2772.8	2754.5
5°	3135.9	3060.3	2951.4	2855.1	2755.4	2660.6	2563.4	2484.5	2413.8	2354.8	2349.9
7.5°	3155.0	3046.2	2875.8	2707.2	2512.7	2324.9	2137.1	1984.3	1867.9	1807.3	1794.8
10°	3187.4	3044.5	2798.6	2529.3	2197.8	1895.3	1672.7	1556.3	1489.0	1464.9	1456.6
12.5°	3221.5	3040.4	2699.7	2278.4	1818.1	1553.0	1430.9	1416.7	1429.2	1430.9	1430.0
15°	3263.0	3037.9	2575.0	1984.3	1540.5	1394.3	1402.6	1432.5	1461.6	1468.2	1468.2
17.5°	3313.7	3032.0	2405.5	1696.8	1366.9	1363.5	1407.6	1447.5	1474.9	1479.9	1479.9
20°	3366.9	3017.1	2197.0	1462.4	1296.2	1344.4	1391.8	1422.5	1441.7	1448.3	1449.1
22.5°	3403.5	2977.2	1956.8	1288.8	1252.2	1307.9	1341.9	1373.5	1373.5	1356.9	1351.9
25°	3411.0	2891.6	1696.8	1169.9	1199.9	1251.4	1286.3	1268.0	1233.9	1220.6	1219.8
27.5°	3383.5	2767.0	1440.0	1085.2	1136.7	1188.2	1182.4	1155.8	1140.9	1127.6	1132.6
30°	3350.3	2617.4	1217.3	1015.4	1063.6	1114.3	1094.3	1085.2	1074.4	1059.4	1062.8
32.5°	3327.9	2450.4	1046.1	961.4	1014.6	1022.9	1037.0	1036.2	1026.2	997.9	996.3
35°	3334.5	2281.7	931.5	917.3	973.8	970.5	997.1	992.1	923.2	884.1	881.6
37.5°	3387.7	2119.7	864.2	882.4	909.0	929.8	953.1	893.2	869.1	844.2	845.9
40°	3489.1	1969.3	827.6	863.3	870.0	900.7	846.7	845.9	835.1	812.6	811.8
42.5°	3603.7	1842.2	802.7	854.2	845.1	850.9	793.5	800.2	799.4	785.2	781.1
45°	3673.5	1725.0	782.7	820.1	822.6	764.5	747.0	754.5	758.6	751.2	750.3
47.5°	3601.2	1590.4	762.0	767.8	789.4	725.4	703.8	704.6	712.1	712.9	709.6
50°	3398.5	1440.0	737.0	722.9	708.8	684.7	664.7	660.6	668.1	675.5	678.0
52.5°	3136.7	1296.2	695.5	673.9	640.6	640.6	631.5	618.2	628.2	638.2	641.5
55°	2944.8	1189.9	636.5	612.4	575.8	588.3	586.6	575.0	588.3	595.8	598.3
57.5°	2551.8	956.4	560.0	552.6	521.8	536.8	540.1	525.1	518.5	520.2	522.7
60°	1514.8	617.4	505.2	504.4	477.0	494.4	504.4	489.4	469.5	472.0	475.3
62.5°	679.7	472.0	436.2	432.9	432.1	454.5	465.3	451.2	422.9	425.4	428.8
65°	427.9	408.0	378.9	378.9	392.2	411.3	419.6	408.0	375.6	371.4	374.7
67.5°	397.2	379.7	349.8	344.0	350.7	366.4	367.3	344.8	325.7	322.4	322.4
70°	356.5	343.2	314.1	302.5	300.0	299.1	296.6	290.8	278.4	275.0	276.7
72.5°	295.0	285.8	267.6	255.1	248.4	247.6	237.6	232.7	221.9	220.2	219.4
75°	195.3	197.8	197.8	196.1	190.3	187.8	177.0	172.0	159.5	154.6	153.7
77.5°	115.5	118.0	121.3	122.1	121.3	121.3	111.3	105.5	93.1	86.4	84.8
80°	70.6	72.3	74.0	76.4	73.1	70.6	61.5	55.7	49.9	45.7	44.9
82.5°	45.7	47.4	48.2	49.9	48.2	44.9	37.4	34.1	29.9	26.6	25.8
85°	25.8	26.6	28.3	28.3	25.8	23.3	19.1	16.6	14.1	12.5	12.5
87.5°	9.1	9.1	9.1	10.0	8.3	7.5	5.0	3.3	2.5	2.5	2.5
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^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/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			

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)