

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: P631082

Luminaire Tested: GWS-SA1E-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631082
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-SA1E-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: 5968 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

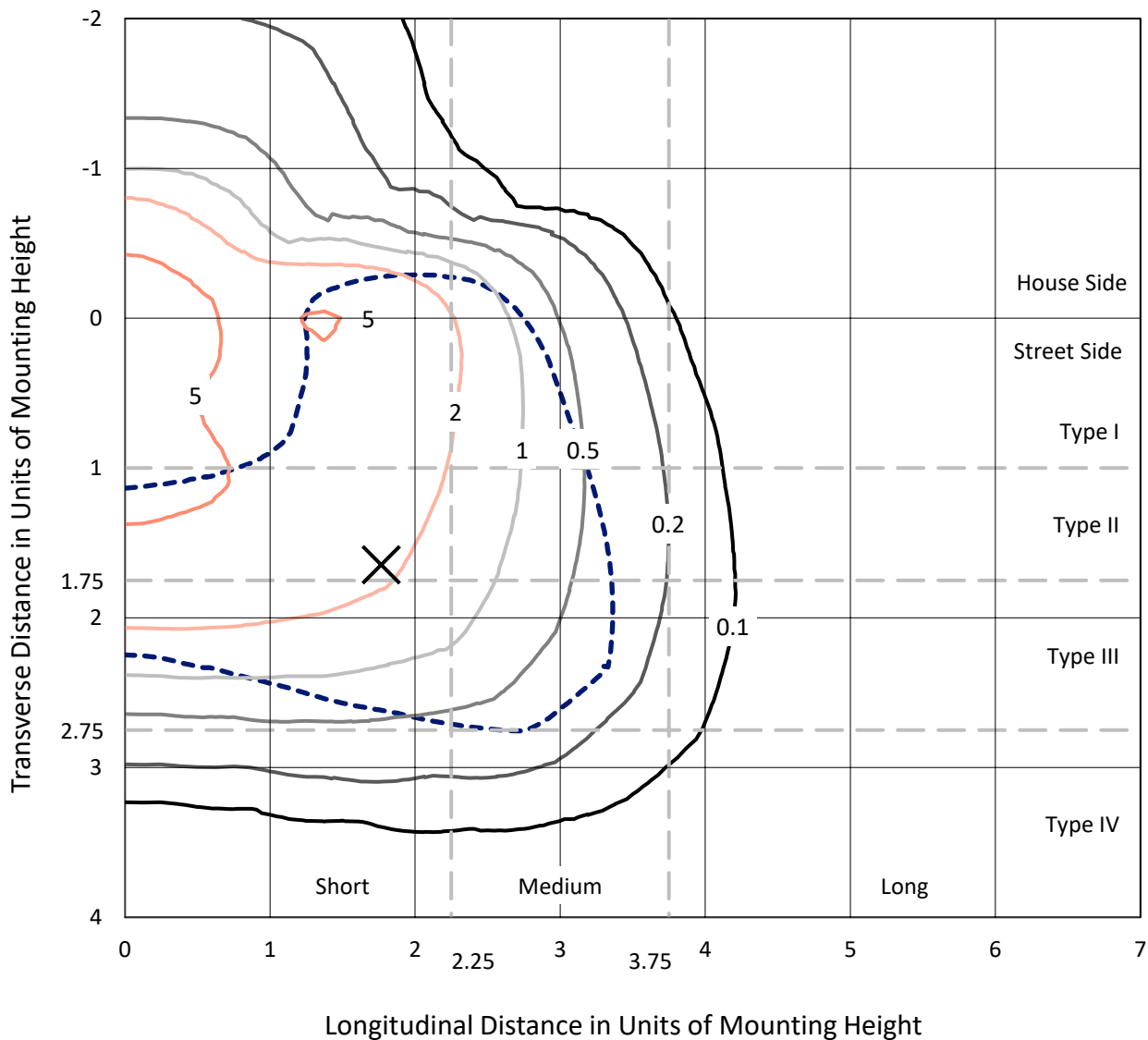
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631082
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Iso-Footcandle Lines of Horizontal Illumination

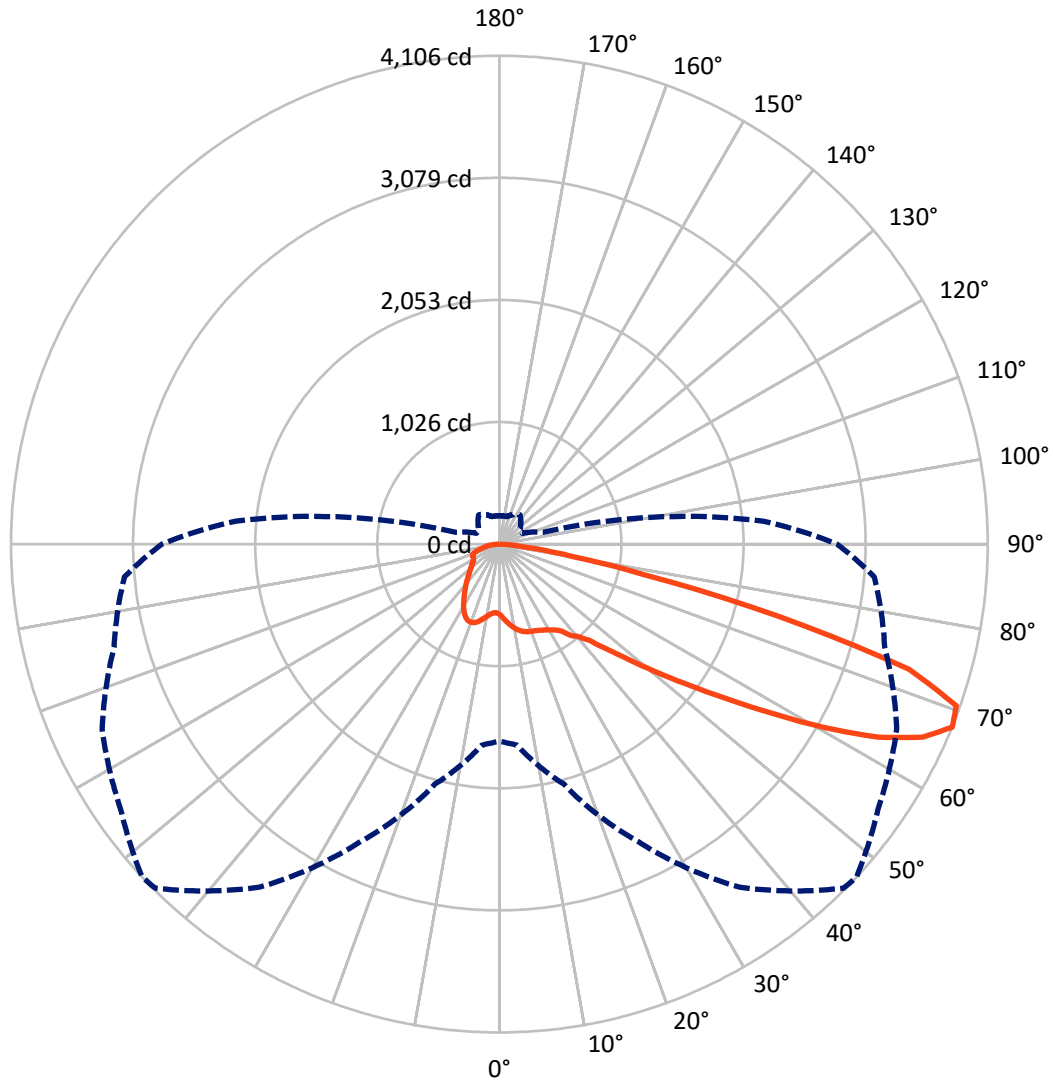
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

REPORT NUMBER: P631082
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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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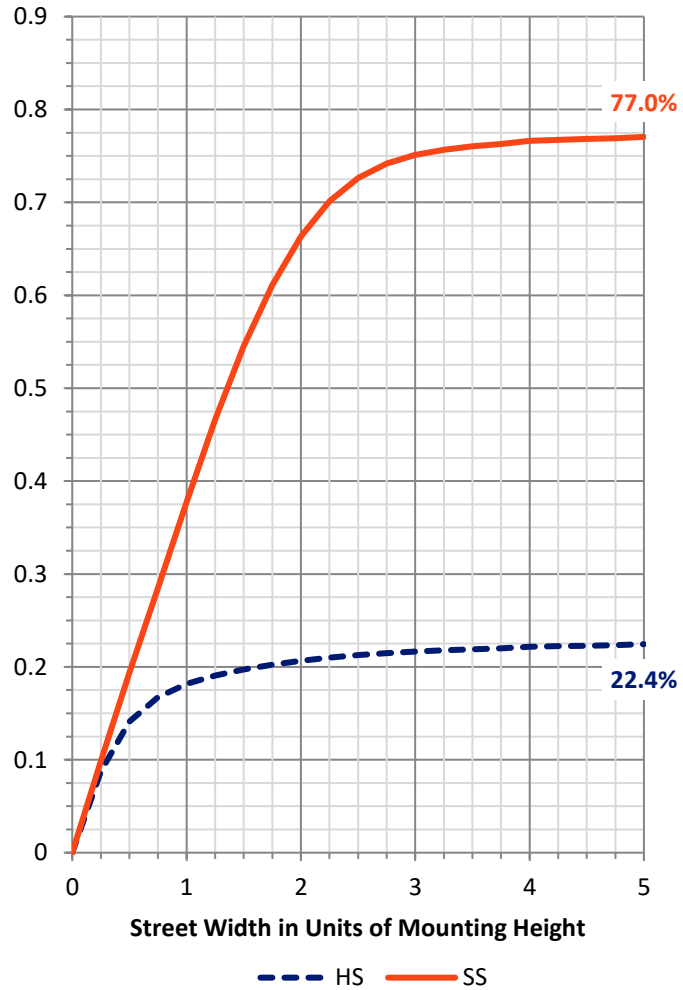
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1360.1	0.0	1360.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	4607.8	0.0	4607.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	5968.0	0.0	5968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.0
10°-20°	201.4	3.4
20°-30°	342.4	5.7
30°-40°	501.6	8.4
40°-50°	764.2	12.8
50°-60°	1367.4	22.9
60°-70°	1824.6	30.6
70°-80°	825.1	13.8
80°-90°	80.8	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°	5968.0	100.0
0°-180°	5968.0	100.0

Coefficient of Utilization



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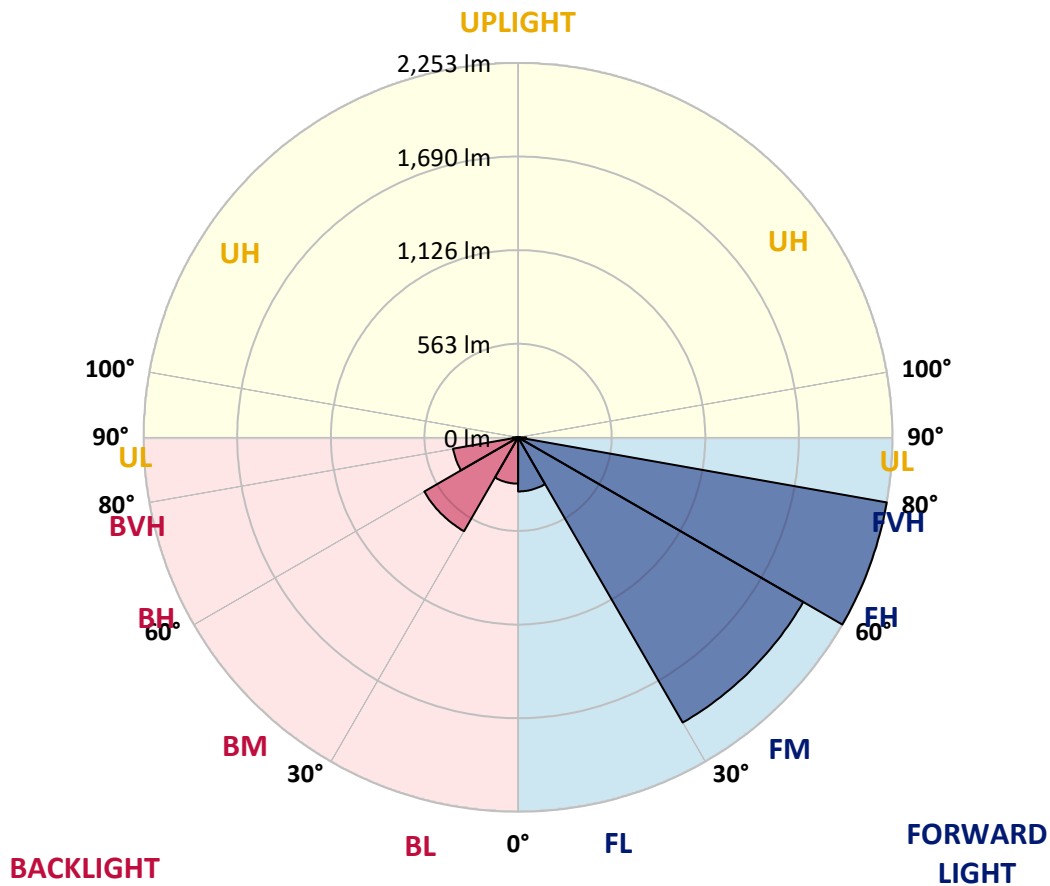
CATALOG NUMBER: GWS-SA1E-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.5	5.5			
FM (30°-60°)	1981.4	33.2			
FH (60°-80°)	2252.8	37.7			G2/5000
FVH (80°-90°)	48.1	0.8			G1/100
BL (0°-30°)	278.8	4.7	B1/500		
BM (30°-60°)	651.7	10.9	B1/1000		
BH (60°-80°)	396.8	6.6	B1/500		G1/500
BVH (80°-90°)	32.8	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-G2

Type III Short





REPORT NUMBER: P631082
 CATALOG NUMBER: GWS-SA1E-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	630.9	633.0	632.6	629.2	627.0	623.1	623.6	617.5	608.4	602.4	595.5
5°	686.6	690.0	685.7	680.1	671.4	658.9	657.6	643.8	626.6	614.5	602.0
7.5°	734.9	737.0	731.9	722.4	709.9	693.0	690.0	673.6	652.0	633.0	614.9
10°	772.4	775.0	768.1	755.6	739.2	722.4	720.2	703.4	680.5	658.1	635.2
12.5°	804.4	805.2	797.9	781.1	763.4	746.1	743.9	728.4	707.3	684.4	659.4
15°	822.9	823.3	814.3	795.7	778.9	763.8	762.5	749.1	729.7	708.1	681.4
17.5°	821.6	822.5	816.0	799.6	784.9	775.9	774.6	766.0	750.8	731.4	704.7
20°	805.7	806.5	802.2	791.4	783.6	781.1	781.5	778.9	769.8	753.9	726.7
22.5°	793.1	794.4	790.5	782.8	781.9	788.0	789.3	790.5	786.2	772.0	745.7
25°	799.2	801.3	795.3	784.5	786.2	799.6	802.2	806.5	803.1	791.0	768.1
27.5°	841.0	842.3	826.8	804.8	799.6	813.9	817.7	824.6	822.1	810.8	793.1
30°	938.1	937.3	904.0	850.1	828.5	834.1	837.2	847.1	847.9	840.6	823.8
32.5°	1074.9	1070.6	1019.3	933.4	870.8	857.0	860.5	873.8	883.8	876.0	853.1
35°	1219.5	1215.6	1159.1	1058.5	948.9	901.0	897.1	907.5	922.6	901.0	868.2
37.5°	1357.1	1351.1	1293.3	1169.0	1045.1	978.3	972.7	962.3	953.2	911.8	886.8
40°	1509.9	1503.0	1452.5	1311.8	1151.3	1037.4	1023.1	982.1	973.9	947.6	935.1
42.5°	1673.0	1673.0	1631.2	1492.6	1279.5	1122.0	1103.4	1041.7	1050.3	1033.1	1018.4
45°	1836.1	1840.9	1807.6	1674.7	1450.8	1281.6	1251.8	1164.2	1185.0	1177.2	1169.9
47.5°	1975.1	1984.1	1977.7	1860.7	1660.5	1475.8	1430.5	1339.4	1383.9	1402.4	1423.2
50°	2124.8	2134.7	2128.3	2082.1	1906.0	1711.0	1670.4	1576.4	1652.7	1708.4	1776.1
52.5°	2347.1	2361.3	2307.4	2289.7	2204.2	1978.1	1941.9	1834.8	1973.4	2065.7	2216.7
55°	2534.8	2534.3	2515.3	2555.9	2524.4	2304.8	2264.6	2167.5	2344.5	2442.4	2663.4
57.5°	2621.9	2632.3	2697.4	2812.2	2875.2	2703.9	2665.5	2566.3	2742.8	2793.7	3032.3
60°	2666.8	2679.8	2805.8	3032.7	3202.3	3139.8	3124.7	2998.2	3097.5	3091.4	3343.4
62.5°	2603.8	2629.7	2832.1	3133.7	3435.8	3577.8	3573.0	3381.8	3399.1	3340.0	3536.3
65°	2314.7	2342.7	2660.3	3083.2	3569.1	3910.9	3912.2	3729.2	3630.8	3460.8	3504.0
67.5°	1655.3	1695.5	2088.1	2758.7	3522.1	4090.8	4105.9	3886.7	3685.2	3353.8	3163.9
70°	902.3	931.7	1239.3	2005.3	3098.3	4047.7	4075.7	3810.8	3445.3	2901.1	2435.5
72.5°	409.9	419.4	576.5	1100.4	2116.6	3484.1	3601.5	3400.8	2829.5	2142.9	1548.7
75°	187.7	192.0	251.1	526.5	1106.0	2331.5	2413.9	2533.0	1969.0	1353.3	807.4
77.5°	117.8	119.1	142.8	240.8	551.5	1163.8	1250.6	1508.2	1153.0	669.7	337.5
80°	69.5	70.8	88.9	130.3	258.9	532.5	614.9	596.4	542.0	289.1	153.6
82.5°	35.0	36.2	51.4	74.2	141.1	211.9	249.4	250.7	202.0	156.6	86.7
85°	12.5	12.9	16.8	29.3	60.0	69.9	78.1	95.4	98.8	91.1	41.9
87.5°	0.0	0.0	0.4	0.9	1.7	6.9	7.3	13.8	28.9	32.4	16.8
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: P631082
 CATALOG NUMBER: GWS-SA1E-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	593.3	586.9	584.7	582.6	579.1	577.8	575.2	572.6	572.6	570.0	568.7
5°	596.4	587.7	582.1	579.5	577.4	578.7	578.7	579.5	582.6	580.8	581.7
7.5°	607.2	597.2	589.5	587.3	587.3	592.5	595.9	600.2	605.9	606.7	606.7
10°	626.1	614.5	606.3	605.0	607.2	614.5	619.7	624.8	631.7	632.2	633.0
12.5°	646.9	635.2	627.0	628.7	630.9	640.4	646.0	650.3	657.2	657.2	656.8
15°	668.4	655.5	648.6	652.0	658.5	669.3	670.2	670.6	674.0	673.2	672.7
17.5°	690.9	677.1	671.9	677.1	684.0	689.1	684.8	678.8	677.5	675.8	674.9
20°	712.9	698.6	696.5	700.4	702.5	698.2	684.8	673.6	668.4	665.8	665.0
22.5°	731.9	719.8	718.5	718.5	707.7	692.6	672.7	657.6	650.7	647.3	646.4
25°	754.3	743.1	740.9	729.3	701.7	674.0	647.3	633.5	627.9	626.1	626.6
27.5°	780.6	772.9	766.0	732.7	684.4	641.2	611.0	605.0	602.8	605.0	606.3
30°	813.0	805.2	789.7	728.4	656.8	598.5	569.6	569.2	575.7	581.3	582.1
32.5°	839.3	835.9	810.4	714.6	617.9	551.5	526.9	528.6	540.3	548.0	549.3
35°	860.0	865.6	827.7	691.7	571.8	507.0	487.6	488.5	495.0	505.7	506.2
37.5°	889.4	908.4	843.2	656.8	518.7	468.6	450.9	444.5	443.6	446.6	447.5
40°	948.5	977.0	854.4	605.9	467.3	434.1	414.3	401.7	391.0	382.8	380.2
42.5°	1037.8	1070.6	860.9	544.2	421.6	400.0	377.6	361.6	342.6	325.4	319.3
45°	1201.8	1212.6	860.9	478.6	381.0	368.1	345.6	326.7	302.5	282.2	277.9
47.5°	1464.2	1429.6	861.8	415.1	345.2	340.0	320.6	299.0	272.3	255.5	252.9
50°	1859.4	1738.2	879.4	362.5	315.4	316.3	302.1	278.3	254.2	241.7	239.5
52.5°	2307.4	2118.3	926.9	323.6	290.4	296.9	289.1	266.2	244.7	233.9	231.7
55°	2728.5	2467.9	967.5	296.0	269.3	280.5	280.1	258.9	239.5	228.7	227.4
57.5°	3086.7	2707.4	961.4	273.6	251.1	265.4	271.9	254.2	236.0	227.0	225.7
60°	3309.3	2834.2	875.6	252.9	237.3	254.6	267.1	252.9	237.8	235.6	236.0
62.5°	3406.0	2810.9	710.7	237.3	228.3	249.4	272.3	261.9	253.7	258.9	261.9
65°	3255.8	2610.7	523.0	225.7	219.6	250.7	284.4	276.2	253.7	257.2	258.5
67.5°	2839.0	2222.3	378.0	214.0	208.9	254.6	301.6	274.0	239.1	239.1	236.5
70°	2045.8	1598.4	274.4	202.4	198.1	249.0	302.5	259.3	222.2	220.9	214.5
72.5°	1231.1	942.9	214.0	189.4	181.7	220.9	283.5	242.1	205.8	195.0	187.3
75°	639.5	472.5	179.5	175.2	155.8	187.3	259.3	215.3	176.1	166.6	162.3
77.5°	274.0	220.9	154.1	156.2	129.5	157.5	209.3	186.4	156.2	144.1	140.2
80°	135.1	125.6	121.7	125.1	103.6	121.7	180.4	163.1	132.5	118.7	113.1
82.5°	77.2	73.4	87.6	88.9	73.8	101.8	152.3	138.1	109.6	94.5	85.4
85°	35.8	38.4	53.1	53.5	45.7	69.9	99.7	77.7	58.3	48.3	46.2
87.5°	14.2	16.8	23.3	22.9	13.4	12.9	8.6	4.7	3.9	3.5	3.0
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

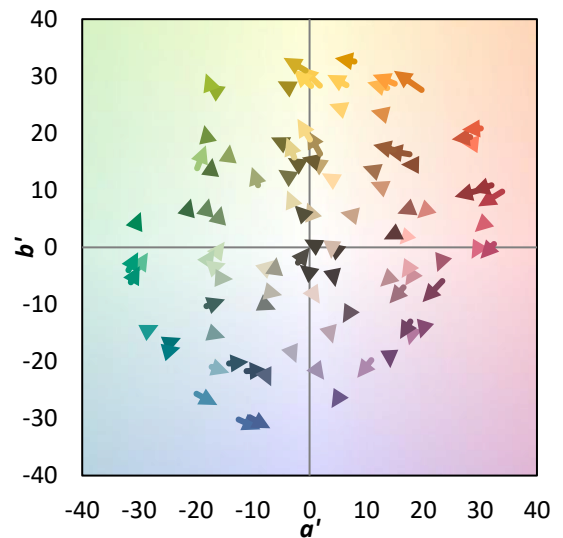
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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)