

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: P630063

Luminaire Tested: GWS-SA1C-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

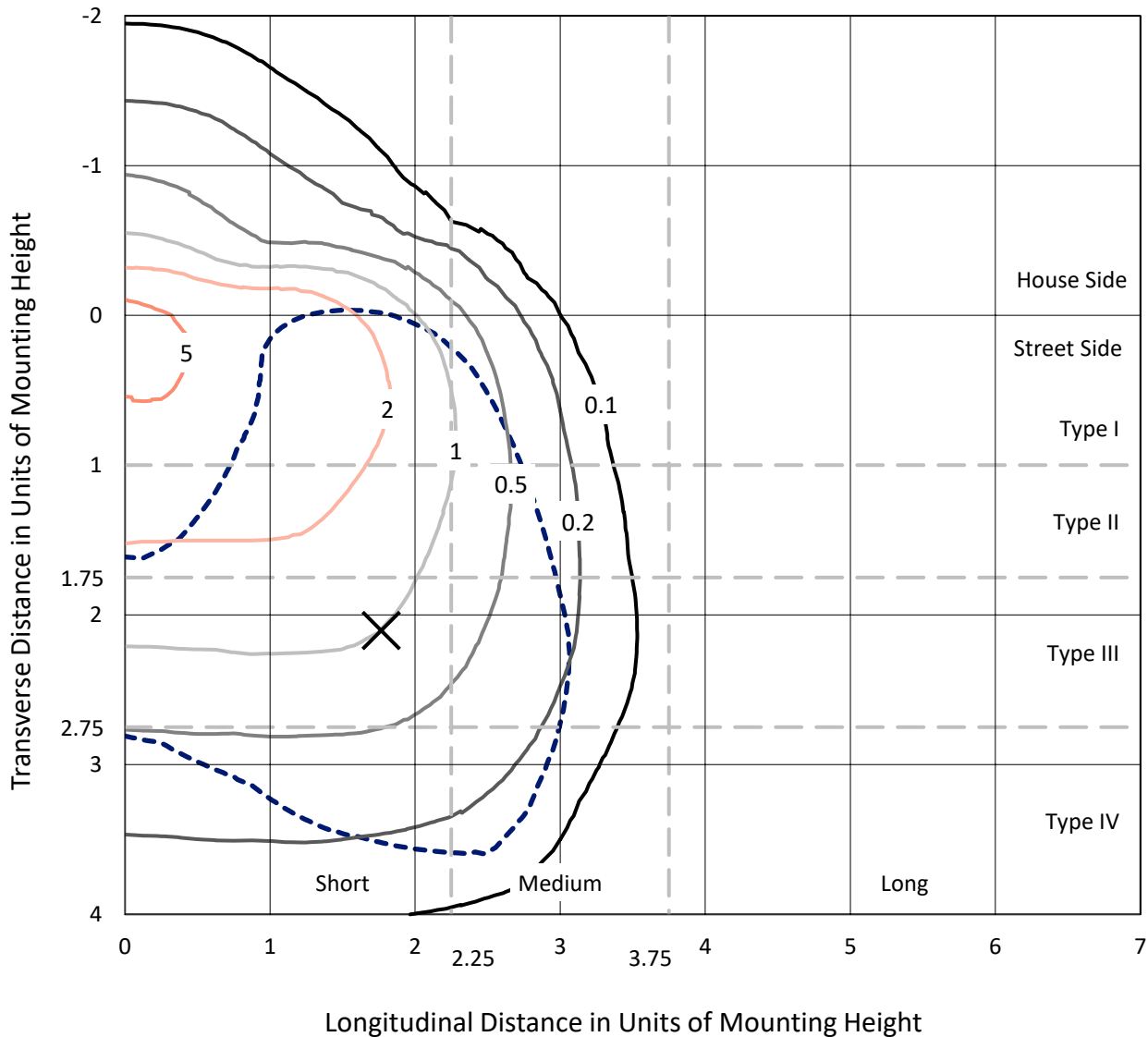
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

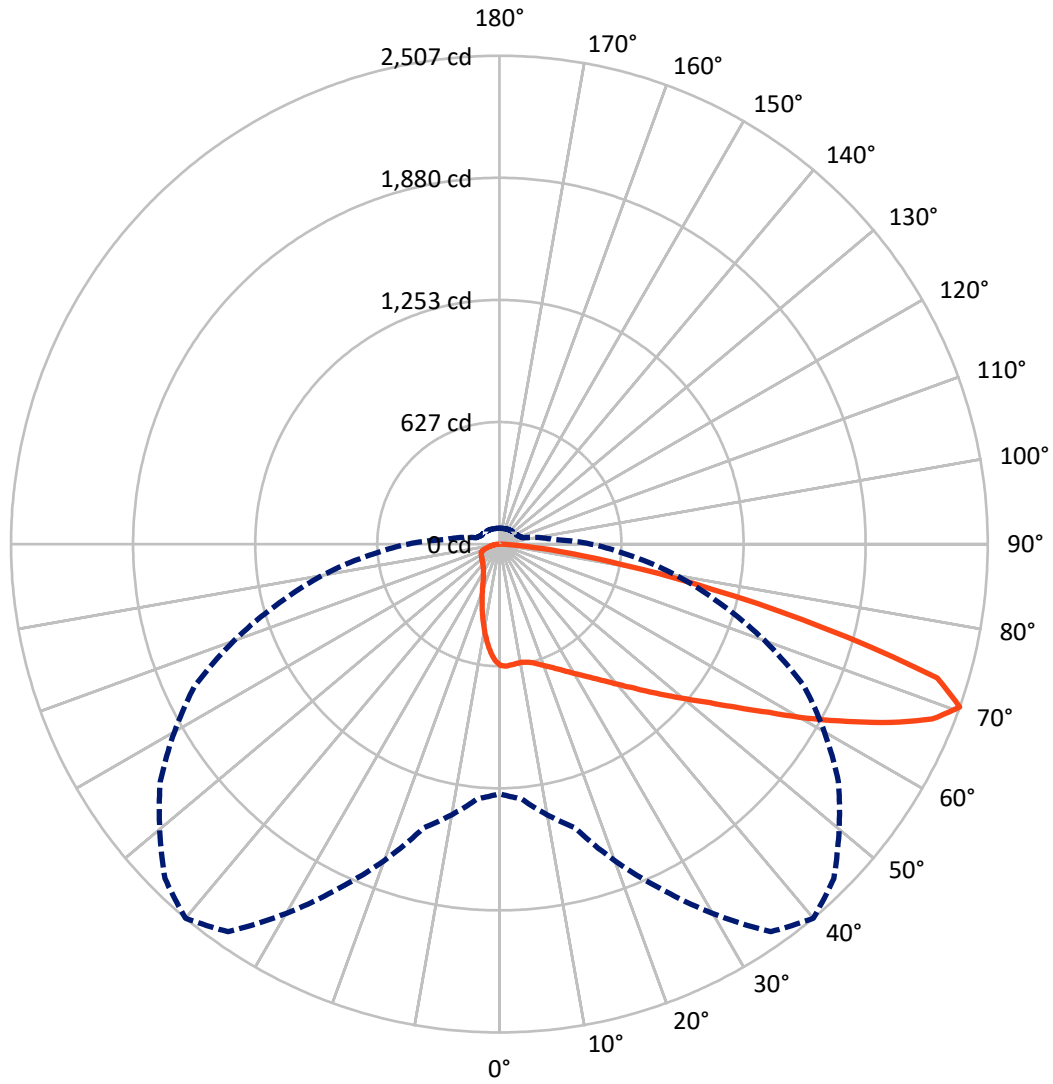
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P630063
CATALOG NUMBER: GWS-SA1C-830-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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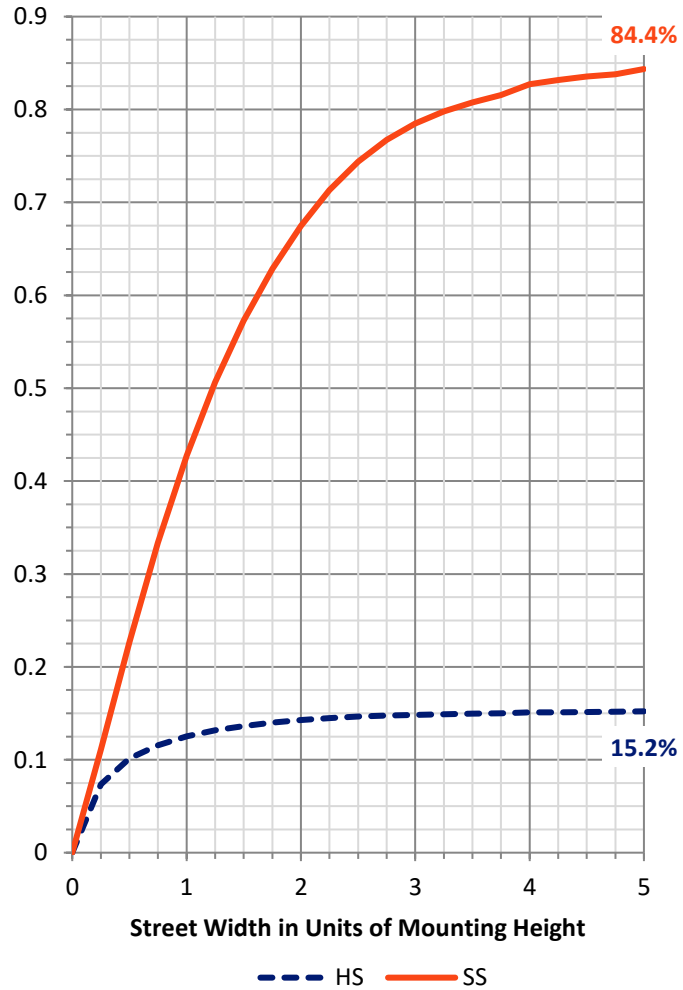
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	564.8	0.0	564.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3102.2	0.0	3102.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	3667.0	0.0	3667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.5
10°-20°	143.4	3.9
20°-30°	225.1	6.1
30°-40°	338.5	9.2
40°-50°	522.5	14.2
50°-60°	776.0	21.2
60°-70°	978.1	26.7
70°-80°	565.6	15.4
80°-90°	62.8	1.7
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°	3667.0	100.0
0°-180°	3667.0	100.0

Coefficient of Utilization



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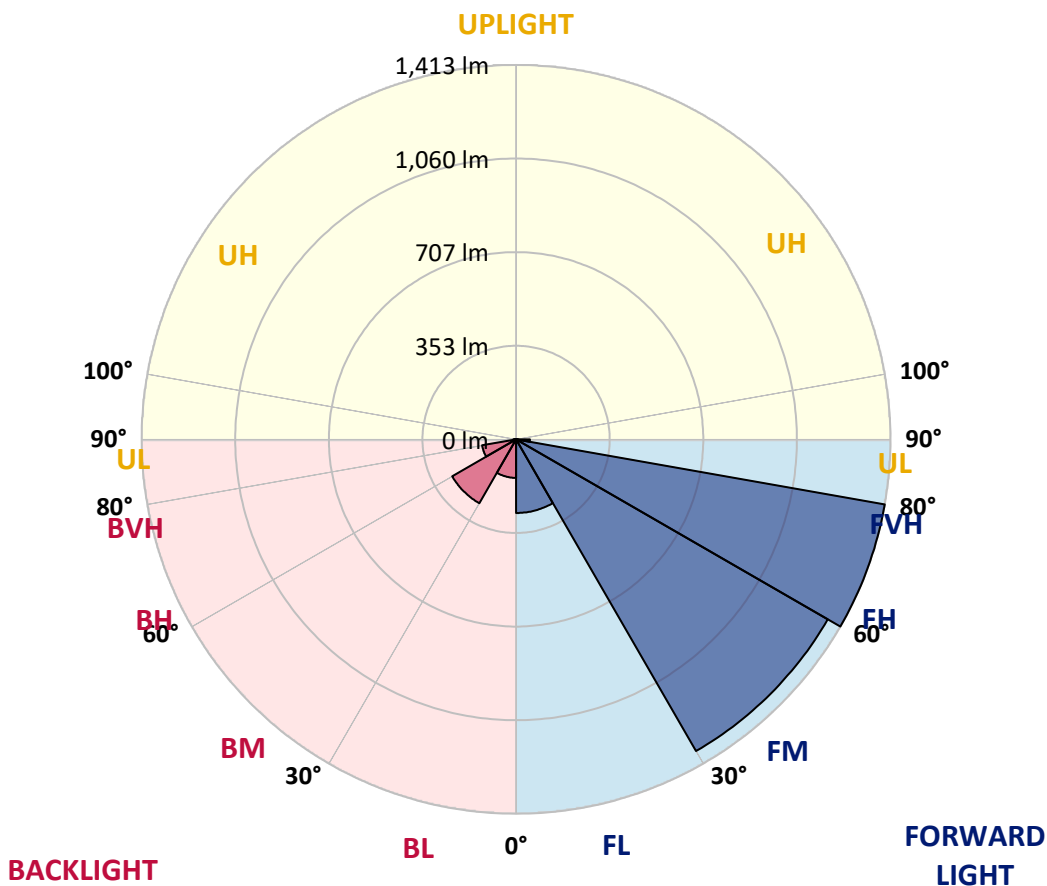
CATALOG NUMBER: GWS-SA1C-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.0	7.6			
FM (30°-60°)	1358.6	37.0			
FH (60°-80°)	1413.4	38.5			G1/1800
FVH (80°-90°)	52.3	1.4			G1/100
BL (0°-30°)	145.6	4.0	B1/500		
BM (30°-60°)	278.4	7.6	B1/1000		
BH (60°-80°)	130.4	3.6	B1/500		G1/500
BVH (80°-90°)	10.5	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7
2.5°	626.5	627.6	628.4	629.5	629.0	627.4	628.7	628.7	625.7	622.4	619.4
5°	627.4	628.7	628.4	628.2	626.0	623.2	623.2	621.6	616.4	611.2	606.3
7.5°	625.7	625.4	625.2	624.3	621.9	618.9	618.3	615.0	608.2	601.1	594.0
10°	618.3	618.0	618.9	620.8	620.2	617.5	617.5	614.5	606.5	597.8	588.5
12.5°	612.3	612.3	615.6	620.8	622.7	621.6	621.9	619.7	610.7	600.3	589.3
15°	613.1	613.4	620.5	629.0	632.6	631.7	632.0	629.5	619.4	609.0	594.2
17.5°	618.6	620.0	632.3	644.0	648.7	647.6	645.7	641.6	630.1	618.3	600.3
20°	630.1	632.3	648.2	662.9	668.4	665.9	662.7	654.4	641.9	629.0	606.8
22.5°	652.8	654.2	671.7	686.2	690.6	687.6	681.0	669.2	654.7	641.3	614.8
25°	684.8	686.5	703.2	716.6	715.5	711.9	702.9	688.4	671.1	656.9	626.3
27.5°	722.9	725.6	742.0	752.7	745.6	740.4	730.3	712.8	693.3	680.5	643.8
30°	764.5	765.6	779.5	790.2	779.3	772.1	759.8	740.9	723.4	713.8	670.1
32.5°	804.7	805.8	817.9	823.9	812.4	807.2	796.5	776.5	764.2	759.0	709.2
35°	847.1	846.9	856.7	861.9	850.2	848.0	837.0	821.7	819.5	826.3	766.4
37.5°	889.6	887.1	892.3	899.1	892.6	894.8	887.7	882.5	890.9	908.7	842.5
40°	923.5	923.5	929.0	937.5	939.7	949.2	945.1	952.0	979.3	1021.8	936.6
42.5°	953.6	953.9	965.4	978.5	994.4	1009.2	1012.5	1030.3	1086.9	1153.4	1054.9
45°	985.1	985.4	1001.0	1020.1	1053.8	1082.0	1088.6	1128.5	1209.5	1290.6	1183.3
47.5°	1021.5	1018.5	1040.1	1072.1	1120.0	1160.5	1177.5	1234.2	1336.5	1436.2	1304.2
50°	1062.6	1056.3	1080.3	1135.6	1194.8	1250.3	1278.8	1343.7	1472.9	1570.6	1418.1
52.5°	1108.8	1105.3	1130.4	1197.8	1288.1	1352.1	1390.7	1475.9	1605.3	1704.4	1508.4
55°	1166.3	1157.8	1194.2	1279.9	1397.6	1479.1	1524.9	1606.7	1750.1	1825.9	1577.4
57.5°	1229.2	1219.9	1268.7	1382.5	1539.9	1629.4	1686.6	1754.0	1886.4	1919.0	1617.9
60°	1297.1	1294.1	1351.9	1503.0	1709.6	1813.6	1855.0	1916.0	2005.0	1972.9	1607.8
62.5°	1359.3	1358.2	1442.2	1633.5	1889.4	2003.9	2036.7	2052.9	2090.4	1969.4	1527.3
65°	1424.7	1434.0	1547.6	1784.9	2095.6	2207.8	2221.5	2180.4	2119.1	1876.0	1362.5
67.5°	1432.9	1451.0	1613.8	1926.7	2291.0	2396.9	2386.0	2228.9	2034.2	1616.3	1068.0
70°	1281.5	1313.0	1508.2	1948.3	2428.7	2506.7	2427.6	2124.6	1726.3	1170.9	671.7
72.5°	1070.8	1097.9	1270.3	1661.4	2251.0	2350.4	2243.4	1798.3	1219.9	671.7	342.1
75°	833.5	864.9	1024.0	1320.7	1685.3	1724.9	1671.3	1254.2	670.6	277.0	155.5
77.5°	508.6	531.3	655.0	894.8	1179.2	1119.8	949.0	703.2	294.2	132.8	96.1
80°	225.0	239.0	322.7	480.6	681.3	644.0	507.7	300.3	160.9	84.3	67.1
82.5°	120.7	129.7	159.0	190.2	299.2	312.9	253.7	173.0	86.5	48.2	38.3
85°	53.1	58.3	72.3	69.0	98.3	96.6	97.4	118.8	41.3	22.2	24.9
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	3.0	15.9	4.1	6.6	5.7
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-SA1C-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7
2.5°	616.1	611.2	609.8	608.2	605.2	600.0	596.1	591.8	589.9	587.7	587.9
5°	600.8	594.8	589.0	581.6	572.3	561.9	554.8	546.6	542.2	538.1	539.2
7.5°	587.7	578.4	566.6	551.0	534.3	515.7	500.6	488.9	480.9	475.4	478.2
10°	579.5	568.5	548.0	522.5	494.3	465.9	444.2	424.0	411.4	401.5	401.0
12.5°	577.8	563.6	533.7	496.8	456.0	418.0	386.2	358.8	342.1	329.8	334.5
15°	579.5	561.4	521.4	473.0	421.5	370.1	330.6	299.2	279.2	268.0	267.1
17.5°	581.4	559.2	507.5	447.2	385.4	326.5	280.8	247.4	226.9	215.7	216.0
20°	583.0	555.9	491.0	419.1	348.7	286.0	238.7	206.9	188.6	180.4	181.7
22.5°	585.7	552.6	473.5	388.9	311.2	246.9	205.3	179.6	168.6	163.1	163.4
25°	590.9	550.7	455.5	356.1	274.3	215.7	182.3	165.0	158.2	154.9	154.6
27.5°	601.6	552.4	436.6	324.4	240.9	191.9	167.5	156.3	151.6	149.4	149.2
30°	619.4	558.9	420.2	292.1	212.1	173.3	157.4	150.5	147.8	145.9	145.6
32.5°	646.5	571.2	402.4	261.9	188.9	159.6	149.4	145.9	144.0	142.9	142.9
35°	687.6	593.7	384.8	235.7	170.8	148.9	143.2	141.8	140.1	139.6	140.1
37.5°	746.7	629.5	369.0	212.7	157.9	140.7	136.3	136.9	135.5	136.3	137.1
40°	821.7	677.4	355.6	193.8	148.4	134.7	130.3	132.2	131.4	132.2	133.6
42.5°	916.7	736.8	345.4	179.0	141.5	129.7	125.6	127.6	127.0	128.1	129.5
45°	1022.6	815.1	340.8	168.6	136.6	126.2	121.8	123.2	122.6	123.4	124.8
47.5°	1124.1	886.3	344.9	162.6	132.5	123.2	118.5	119.1	118.8	118.5	119.3
50°	1211.7	942.9	356.6	160.7	129.7	120.2	115.8	116.1	115.2	113.6	114.1
52.5°	1283.2	988.4	363.8	160.7	128.4	116.9	112.8	113.0	111.4	109.2	109.5
55°	1330.2	1006.7	358.0	160.4	127.8	114.1	109.8	110.0	108.4	105.7	105.9
57.5°	1343.7	988.9	333.9	157.4	127.3	111.9	106.7	107.3	106.2	103.2	103.2
60°	1306.2	923.8	289.9	150.5	125.9	110.6	104.6	105.4	104.8	101.8	101.8
62.5°	1207.9	808.0	237.3	140.1	122.1	108.9	102.6	104.3	105.7	104.0	103.7
65°	1024.0	647.3	193.0	128.6	117.1	106.2	99.9	104.0	107.0	109.2	109.2
67.5°	768.3	463.4	157.4	116.6	109.8	100.7	96.3	100.2	102.4	103.7	104.6
70°	468.3	272.6	124.0	102.6	99.1	92.5	89.2	85.4	82.4	81.8	82.1
72.5°	229.1	156.0	100.7	87.3	84.6	78.6	71.2	69.5	68.2	67.3	67.1
75°	126.2	108.7	83.2	72.5	67.6	60.2	58.6	55.8	55.3	54.2	54.5
77.5°	89.2	85.7	68.7	58.8	51.5	47.6	48.4	46.5	46.5	45.7	45.4
80°	67.1	67.3	52.8	43.0	38.0	36.7	37.5	37.5	37.0	36.7	36.4
82.5°	42.4	47.9	35.6	27.6	27.1	27.4	27.1	26.8	27.4	26.6	26.3
85°	29.3	34.5	21.6	16.4	16.4	16.1	16.7	16.4	17.0	16.1	16.1
87.5°	6.6	15.3	7.9	4.9	5.2	4.9	5.2	5.5	6.0	6.3	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

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)