

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: P630088

Luminaire Tested: GWS-SA1C-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3881.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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

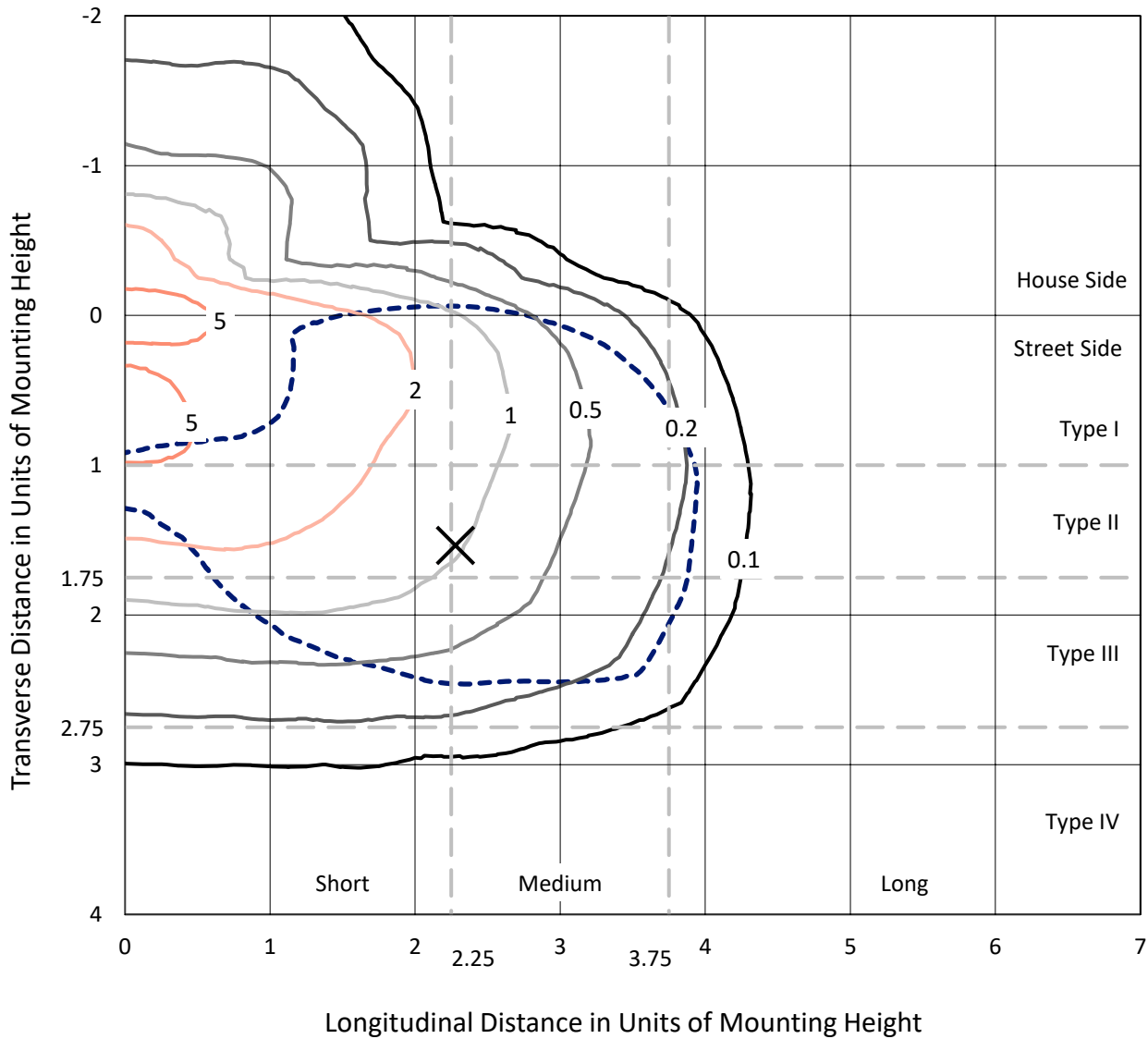


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Iso-Footcandle Lines of Horizontal Illumination

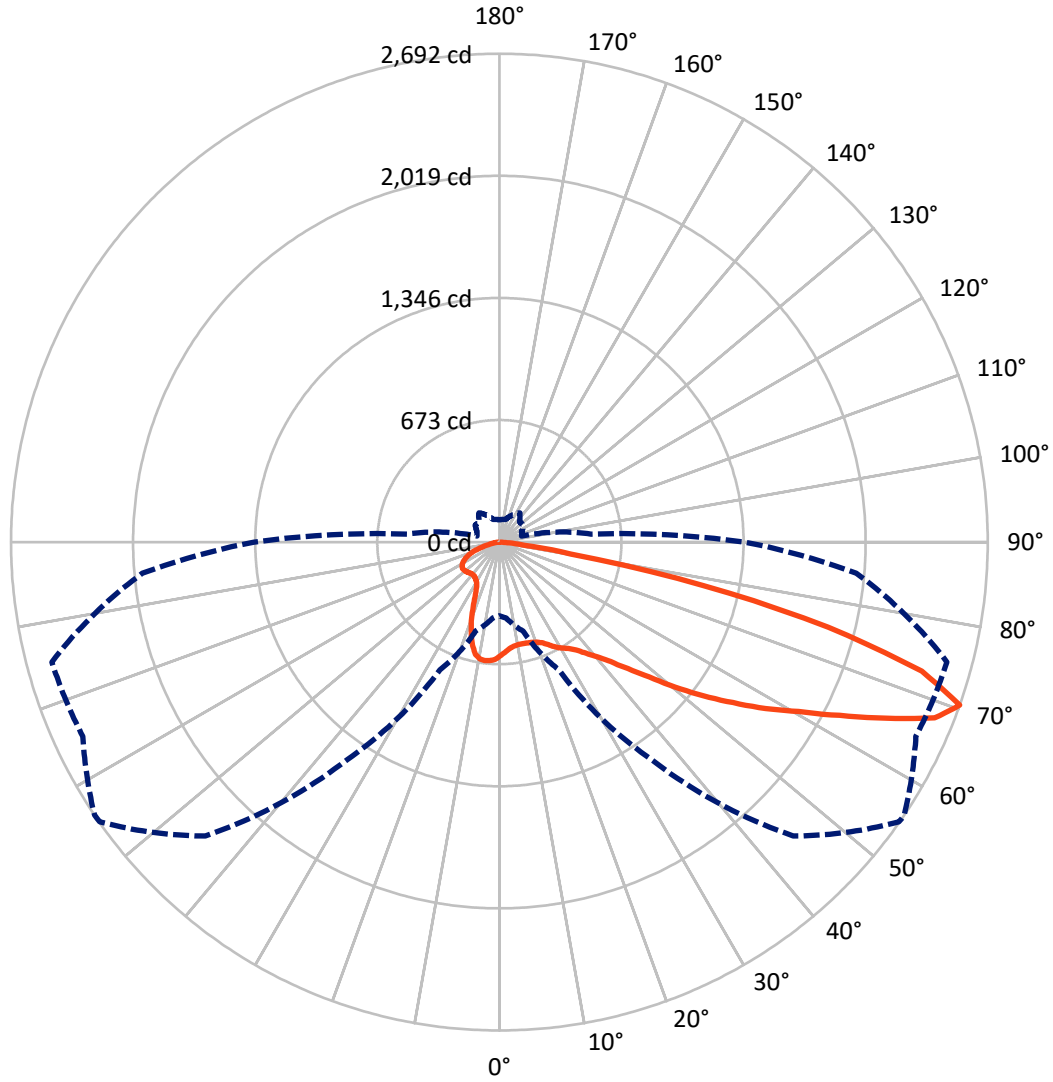
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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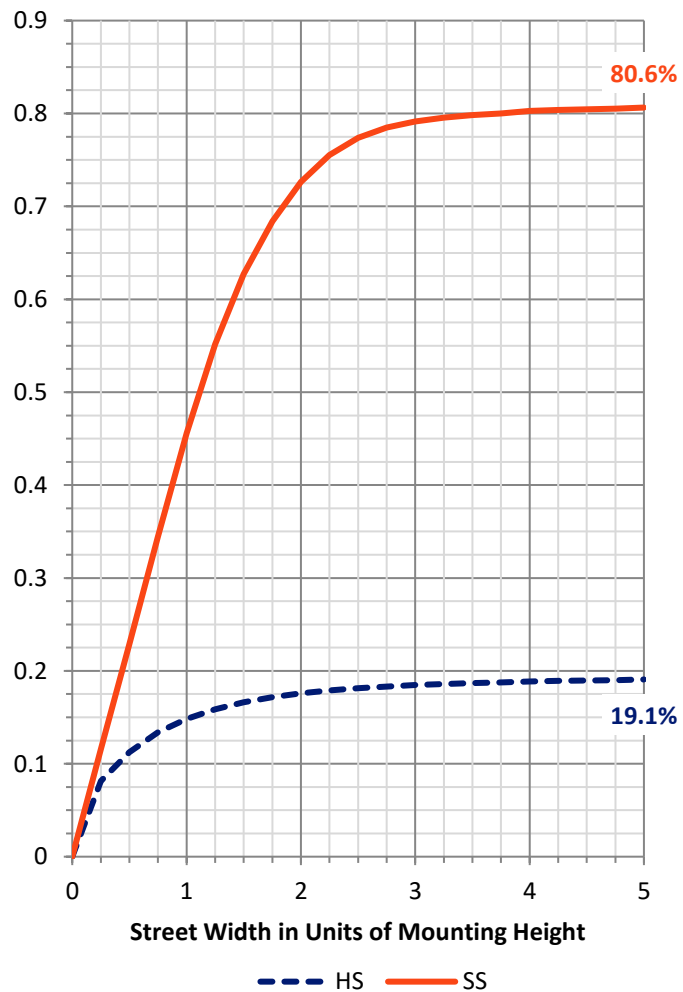
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	746.2	0.0	746.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	3135.4	0.0	3135.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	3881.6	0.0	3881.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	1.5
10°-20°	157.1	4.0
20°-30°	259.7	6.7
30°-40°	388.3	10.0
40°-50°	577.9	14.9
50°-60°	821.6	21.2
60°-70°	1017.6	26.2
70°-80°	561.9	14.5
80°-90°	39.6	1.0
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°	3881.6	100.0
0°-180°	3881.6	100.0

Coefficient of Utilization



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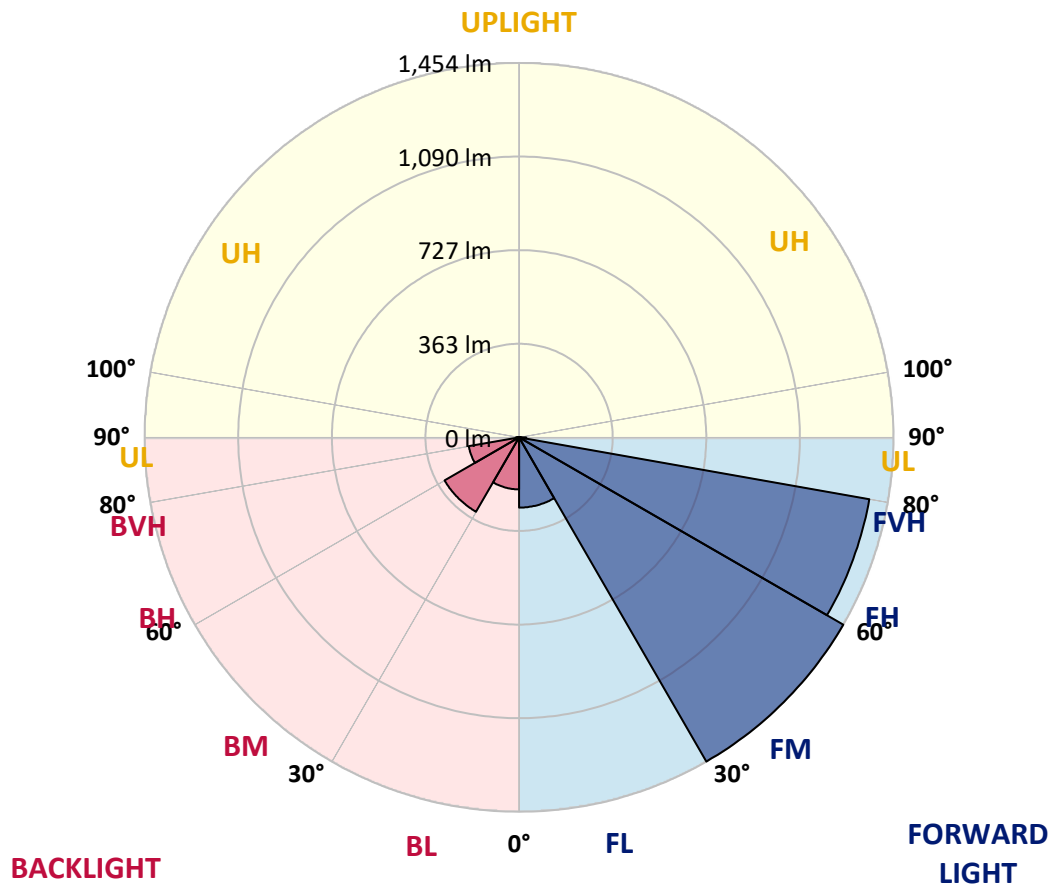
CATALOG NUMBER: GWS-SA1C-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.8	7.0			
FM (30°-60°)	1454.0	37.5			
FH (60°-80°)	1381.1	35.6			G1/1800
FVH (80°-90°)	27.5	0.7			G1/100
BL (0°-30°)	202.0	5.2	B1/500		
BM (30°-60°)	333.8	8.6	B1/1000		
BH (60°-80°)	198.3	5.1	B1/500		G1/500
BVH (80°-90°)	12.1	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 III Medium





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 CATALOG NUMBER: GWS-SA1C-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
2.5°	586.3	583.0	586.9	588.8	593.7	600.8	607.1	607.4	610.7	618.6	626.3
5°	559.8	558.1	559.2	565.0	570.2	579.2	588.8	589.6	598.9	614.5	629.8
7.5°	539.2	537.0	541.1	548.5	555.1	565.2	577.8	578.9	592.1	615.6	639.1
10°	509.7	508.0	515.7	525.5	539.8	556.5	573.2	574.5	591.8	622.7	655.6
12.5°	496.8	496.8	500.1	509.4	525.0	547.2	572.4	574.5	596.2	633.7	676.6
15°	516.8	518.2	515.4	514.9	521.2	542.2	573.4	576.7	604.4	644.9	697.4
17.5°	557.0	558.4	551.3	540.1	533.8	546.9	577.6	581.1	613.1	657.2	719.9
20°	613.4	615.1	599.5	582.2	560.6	560.3	585.5	588.8	624.4	670.6	743.7
22.5°	679.4	680.5	660.8	633.4	600.3	585.2	599.2	602.5	638.9	689.2	769.4
25°	755.7	759.0	735.2	695.5	650.6	619.4	621.9	625.7	664.9	714.1	799.8
27.5°	837.3	841.4	814.0	770.3	708.4	657.2	651.2	654.5	692.5	729.5	816.0
30°	920.8	923.8	896.4	846.3	770.5	699.9	675.8	677.7	704.6	736.9	832.4
32.5°	1013.6	1011.1	984.9	927.1	842.2	751.1	698.8	698.3	718.0	751.6	855.9
35°	1100.6	1104.2	1076.3	1012.5	921.1	814.3	733.3	731.1	746.4	775.7	889.0
37.5°	1206.0	1204.9	1171.5	1102.6	1000.2	874.8	781.8	777.9	783.4	813.2	935.3
40°	1281.3	1289.0	1267.3	1203.0	1092.7	949.3	838.4	829.9	831.3	859.5	997.2
42.5°	1342.9	1350.0	1352.2	1311.1	1198.6	1041.2	909.0	900.5	901.4	941.3	1073.3
45°	1390.2	1399.8	1430.7	1418.7	1318.0	1147.4	1004.6	995.8	996.3	1040.7	1165.2
47.5°	1409.7	1420.1	1482.8	1511.5	1444.7	1274.5	1123.4	1110.5	1112.4	1161.4	1270.3
50°	1403.4	1417.3	1502.2	1582.9	1550.9	1403.6	1265.4	1256.4	1249.0	1320.2	1384.5
52.5°	1349.2	1364.5	1500.3	1628.4	1637.7	1525.7	1412.1	1406.9	1405.3	1488.8	1512.0
55°	1189.6	1215.3	1434.3	1640.4	1705.6	1640.7	1571.2	1562.4	1570.9	1669.4	1641.0
57.5°	1101.2	1120.3	1305.1	1627.0	1761.1	1750.2	1729.9	1730.7	1740.3	1865.7	1797.3
60°	1050.8	1073.3	1233.4	1590.3	1814.5	1883.2	1896.1	1896.1	1913.3	2077.3	1956.0
62.5°	984.0	1006.7	1166.3	1519.7	1863.8	2039.8	2104.9	2104.1	2110.9	2304.2	2111.2
65°	848.5	869.6	1031.7	1408.3	1887.9	2212.2	2342.2	2339.8	2326.1	2506.2	2213.9
67.5°	616.1	636.1	790.2	1196.4	1801.1	2351.3	2586.7	2587.8	2505.9	2633.5	2219.3
70°	406.2	419.9	508.0	777.1	1464.7	2291.3	2689.0	2692.3	2533.6	2554.1	1975.2
72.5°	253.5	263.0	317.2	463.4	865.5	1813.7	2426.3	2435.3	2279.3	2244.5	1622.9
75°	168.3	174.9	211.0	270.2	400.5	981.6	1844.3	1873.4	1826.8	1759.5	1130.7
77.5°	101.3	106.8	134.4	171.6	177.4	383.5	1076.5	1151.5	1158.1	918.6	473.5
80°	46.3	52.6	74.2	98.0	94.4	133.6	379.7	397.2	468.6	291.8	149.5
82.5°	27.4	30.1	49.3	48.7	40.2	64.9	136.6	140.1	119.1	106.8	63.8
85°	10.9	12.9	20.8	18.3	14.8	21.1	51.5	53.9	51.7	46.5	23.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.5	4.7	4.9	7.1	12.9	7.1
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-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
2.5°	631.2	629.6	637.8	644.1	646.8	649.5	647.1	646.3	646.3	640.8	638.0
5°	638.0	638.9	650.1	655.3	655.3	653.1	646.5	641.9	640.2	633.1	631.2
7.5°	650.9	654.5	664.9	664.6	656.9	644.9	628.5	615.9	604.4	599.5	596.4
10°	672.0	676.6	683.8	672.3	650.9	619.2	584.4	557.0	540.6	527.5	527.5
12.5°	696.1	700.5	699.1	672.5	628.5	569.1	519.0	487.5	464.5	452.5	452.5
15°	720.2	723.7	708.9	659.9	581.7	502.6	447.8	410.0	390.1	378.8	378.8
17.5°	744.5	744.3	713.0	630.9	520.6	428.9	375.3	346.0	339.1	337.2	337.0
20°	768.1	761.8	707.8	582.5	449.7	354.7	320.8	322.7	332.8	337.2	337.8
22.5°	794.6	779.0	692.5	520.6	369.3	303.3	305.5	321.3	336.1	342.7	343.5
25°	821.7	793.8	666.8	448.1	301.9	284.4	301.4	319.2	335.9	344.3	345.2
27.5°	832.7	793.8	623.0	364.1	266.1	276.5	295.1	312.3	329.8	339.7	341.6
30°	841.7	787.0	561.7	288.2	251.3	268.8	284.9	300.8	318.1	330.1	332.3
32.5°	854.3	780.9	487.5	242.2	244.4	261.4	272.6	286.0	301.6	309.6	308.8
35°	869.1	771.6	398.0	220.3	238.7	255.1	263.0	271.0	263.9	263.6	264.4
37.5°	890.1	763.4	320.0	210.5	234.9	250.7	257.3	240.3	230.5	226.4	224.7
40°	920.5	760.1	252.4	204.7	234.3	250.5	245.8	219.5	206.1	191.9	191.6
42.5°	958.8	757.7	208.6	202.0	236.2	256.8	229.9	205.8	178.2	171.9	171.4
45°	1008.1	753.8	186.7	201.5	240.9	261.7	228.3	187.0	168.1	165.3	165.3
47.5°	1067.5	747.8	176.8	201.5	246.1	259.5	223.4	182.8	163.4	166.4	168.3
50°	1135.7	740.1	171.6	200.9	251.3	259.5	213.0	182.0	162.3	177.9	184.2
52.5°	1208.5	731.4	168.1	198.7	254.8	259.8	213.5	184.8	163.4	180.7	185.9
55°	1289.0	730.0	163.1	194.1	255.9	252.6	214.9	190.8	165.1	163.7	164.0
57.5°	1390.5	746.4	159.6	187.2	251.6	238.1	217.6	195.2	163.1	163.4	165.3
60°	1496.7	777.4	162.6	180.7	242.5	224.5	219.5	193.0	153.8	149.5	150.0
62.5°	1587.0	800.9	165.1	177.6	229.4	212.4	217.6	188.0	148.6	147.5	150.0
65°	1624.8	781.5	159.0	171.4	210.2	197.6	213.5	181.8	144.3	140.1	140.4
67.5°	1582.9	690.3	147.3	157.4	188.6	178.7	206.9	173.5	138.2	133.3	132.2
70°	1352.2	507.2	127.0	135.2	162.3	156.6	196.8	162.9	128.6	125.1	122.6
72.5°	1089.7	359.1	105.4	107.6	127.3	131.9	179.3	149.5	117.7	107.6	104.0
75°	758.5	225.5	87.9	85.7	92.0	100.7	139.9	124.0	101.6	90.9	87.6
77.5°	326.3	115.8	68.7	67.6	61.3	69.8	107.3	103.5	85.1	72.8	70.9
80°	109.2	67.1	49.5	47.6	40.8	49.0	75.5	82.7	66.8	53.9	50.6
82.5°	54.7	38.9	31.5	28.5	27.4	30.9	44.6	51.5	46.3	37.2	31.5
85°	26.8	22.2	17.2	17.0	14.2	13.4	18.6	21.9	20.8	15.3	14.5
87.5°	9.9	8.8	5.5	4.4	2.7	1.9	1.1	1.1	0.8	0.8	0.8
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)