

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: P630558

Luminaire Tested: GWS-SA1D-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630558
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-SA1D-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: 4626.2 lumens
Efficiency: N/A
Efficacy: 104.4 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

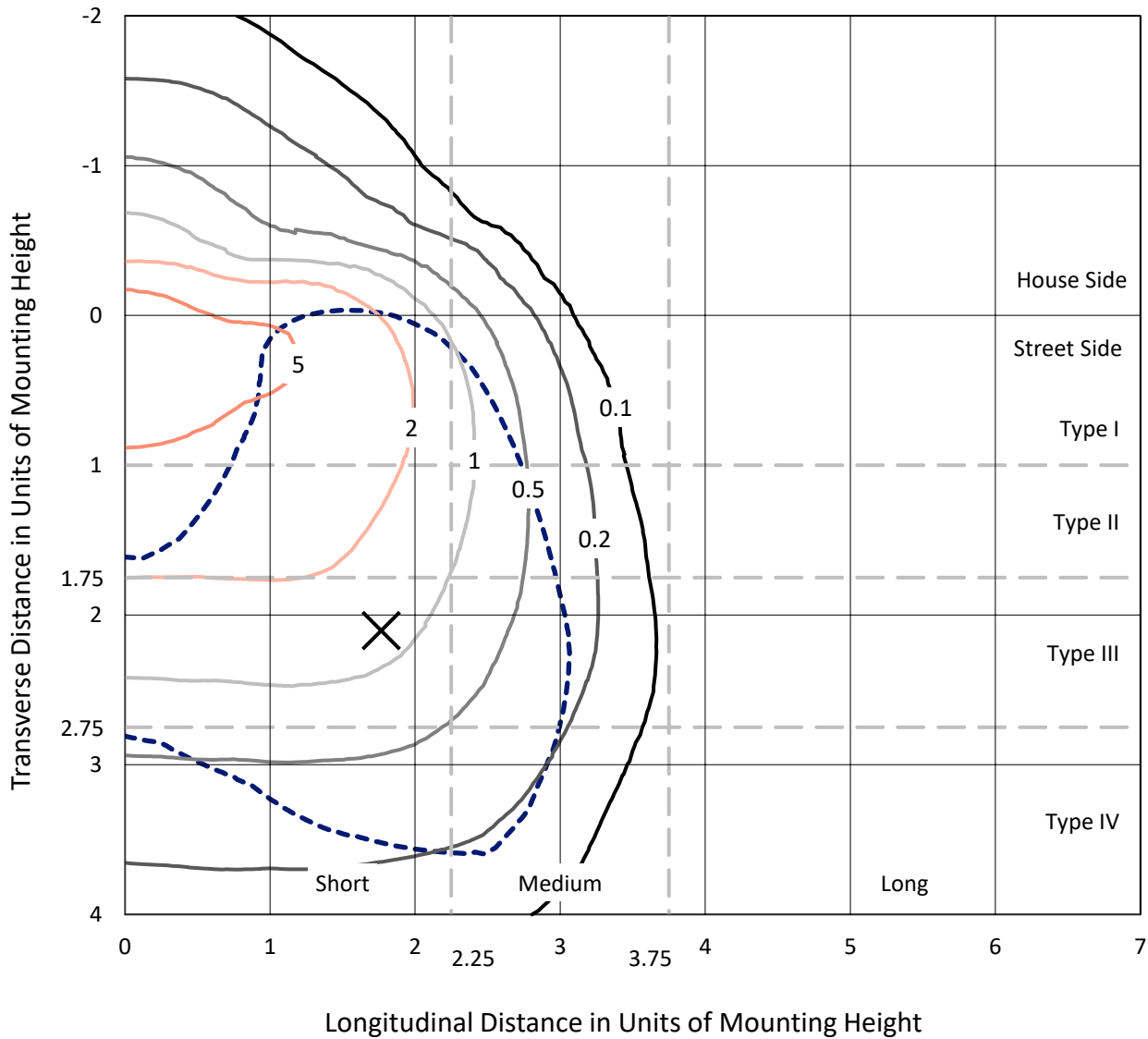
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

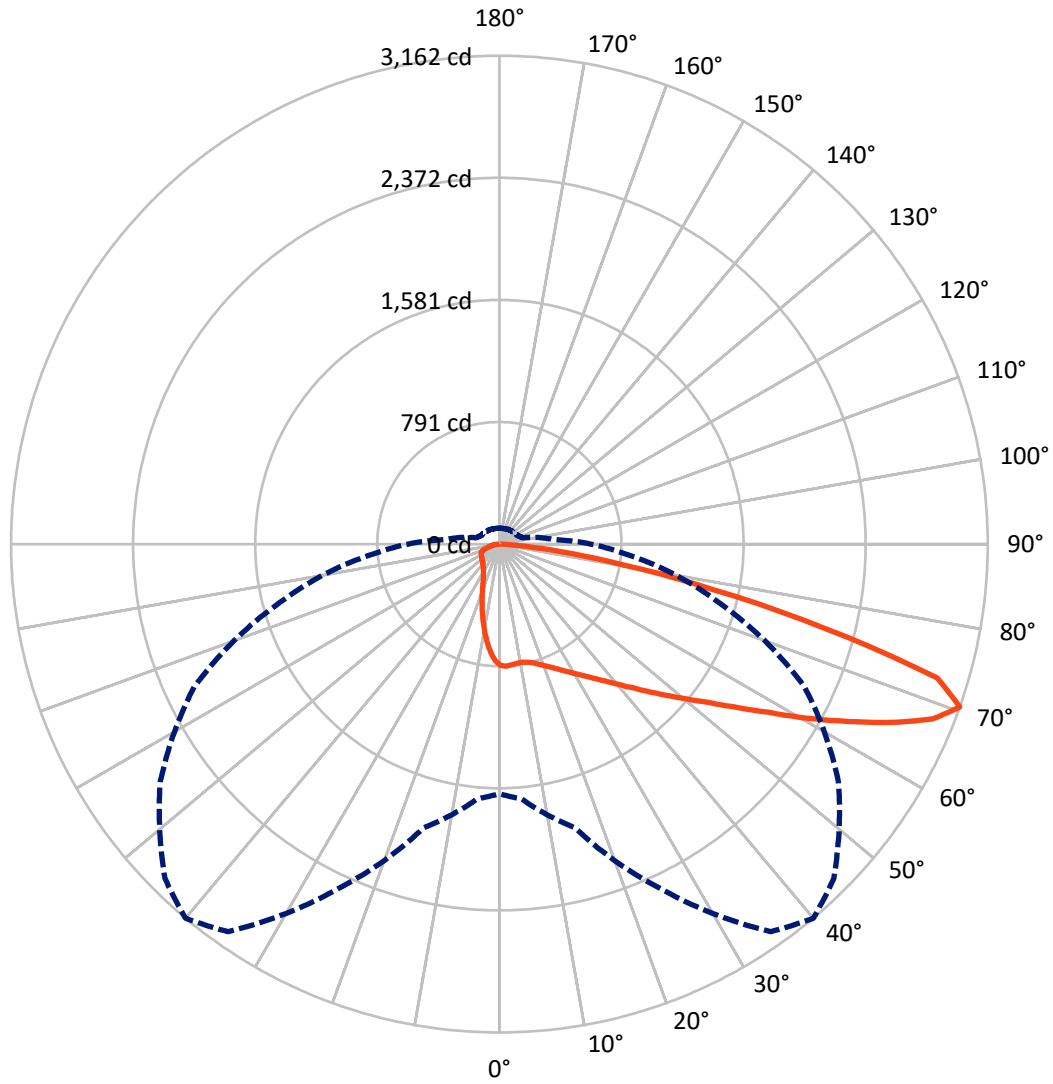
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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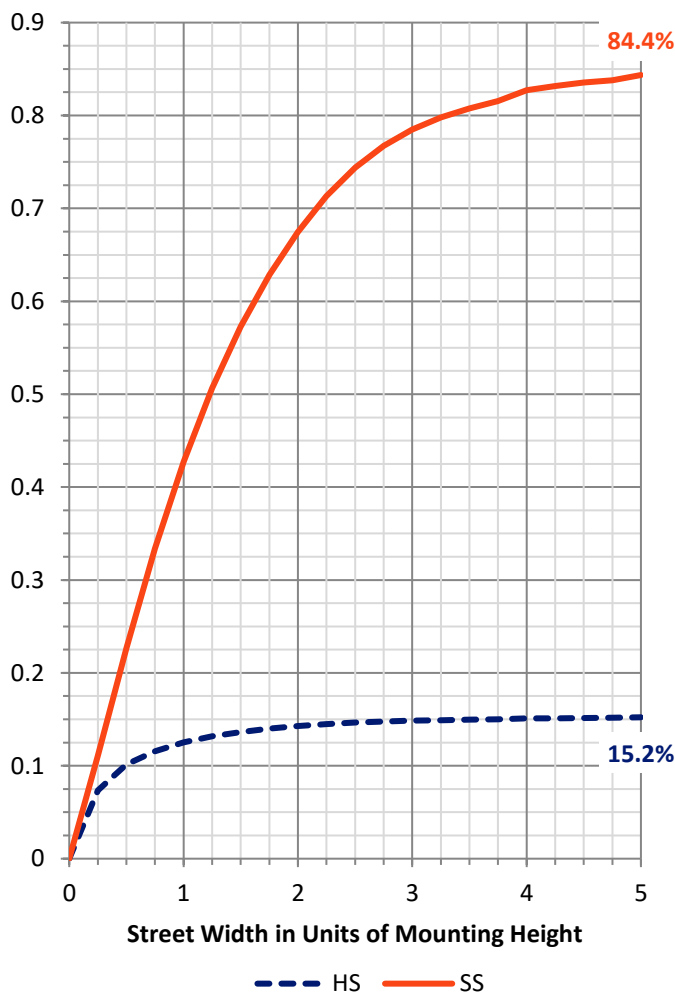
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.6	0.0	712.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3913.6	0.0	3913.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	4626.2	0.0	4626.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.5
10°-20°	180.9	3.9
20°-30°	284.0	6.1
30°-40°	427.1	9.2
40°-50°	659.2	14.2
50°-60°	978.9	21.2
60°-70°	1233.9	26.7
70°-80°	713.6	15.4
80°-90°	79.2	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°	4626.2	100.0
0°-180°	4626.2	100.0

Coefficient of Utilization



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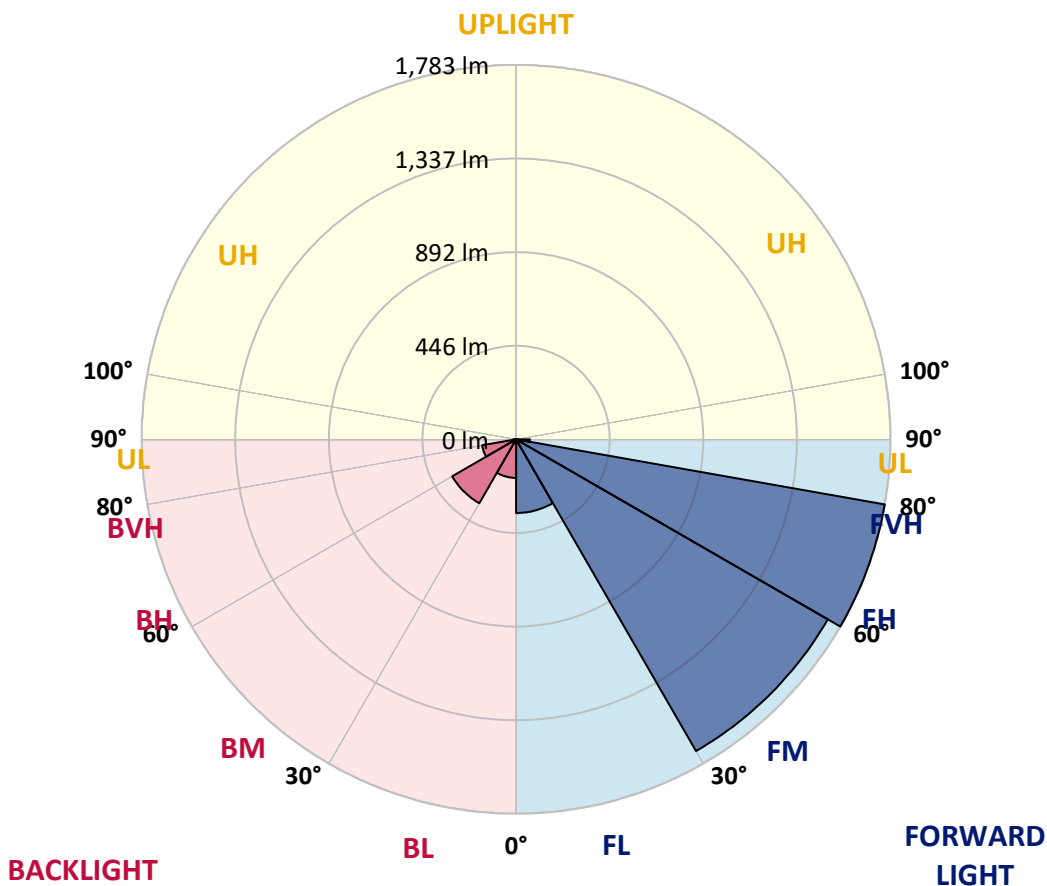
CATALOG NUMBER: GWS-SA1D-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.7	7.6			
FM (30°-60°)	1713.9	37.0			
FH (60°-80°)	1783.0	38.5			G1/1800
FVH (80°-90°)	66.0	1.4			G1/100
BL (0°-30°)	183.6	4.0	B1/500		
BM (30°-60°)	351.2	7.6	B1/1000		
BH (60°-80°)	164.5	3.6	B1/500		G1/500
BVH (80°-90°)	13.2	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°	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6
2.5°	790.4	791.8	792.8	794.2	793.5	791.5	793.2	793.2	789.4	785.2	781.4
5°	791.5	793.2	792.8	792.5	789.7	786.3	786.3	784.2	777.6	771.1	764.9
7.5°	789.4	789.0	788.7	787.7	784.5	780.7	780.1	775.9	767.3	758.3	749.3
10°	780.1	779.7	780.7	783.2	782.5	779.0	779.0	775.2	765.2	754.2	742.4
12.5°	772.5	772.5	776.6	783.2	785.6	784.2	784.5	781.8	770.4	757.3	743.5
15°	773.5	773.8	782.8	793.5	798.0	797.0	797.3	794.2	781.4	768.3	749.7
17.5°	780.4	782.1	797.7	812.5	818.4	817.0	814.6	809.4	794.9	780.1	757.3
20°	794.9	797.7	817.7	836.3	843.2	840.1	836.0	825.6	809.8	793.5	765.6
22.5°	823.6	825.3	847.4	865.7	871.2	867.4	859.1	844.3	826.0	809.1	775.6
25°	864.0	866.0	887.1	904.0	902.6	898.2	886.8	868.5	846.7	828.7	790.1
27.5°	912.0	915.4	936.1	949.6	940.6	934.1	921.3	899.2	874.7	858.4	812.2
30°	964.5	965.8	983.4	996.9	983.1	974.1	958.6	934.8	912.7	900.6	845.3
32.5°	1015.2	1016.6	1031.8	1039.4	1024.9	1018.3	1004.9	979.6	964.1	957.5	894.7
35°	1068.7	1068.4	1080.8	1087.4	1072.5	1069.8	1056.0	1036.6	1033.9	1042.5	966.9
37.5°	1122.3	1119.2	1125.7	1134.3	1126.1	1128.8	1119.8	1113.3	1124.0	1146.4	1062.9
40°	1165.1	1165.1	1172.0	1182.7	1185.5	1197.5	1192.4	1201.0	1235.5	1289.0	1181.7
42.5°	1203.1	1203.4	1217.9	1234.5	1254.5	1273.2	1277.3	1299.7	1371.2	1455.1	1330.8
45°	1242.8	1243.1	1262.8	1287.0	1329.4	1365.0	1373.3	1423.7	1525.9	1628.1	1492.8
47.5°	1288.7	1284.9	1312.2	1352.6	1413.0	1464.1	1485.5	1557.0	1686.2	1811.8	1645.4
50°	1340.5	1332.6	1362.9	1432.7	1507.3	1577.4	1613.3	1695.1	1858.1	1981.4	1789.1
52.5°	1398.9	1394.4	1426.1	1511.1	1625.0	1705.8	1754.5	1861.9	2025.2	2150.2	1903.0
55°	1471.4	1460.7	1506.6	1614.7	1763.2	1866.1	1923.7	2027.0	2207.9	2303.6	1990.0
57.5°	1550.8	1539.0	1600.5	1744.2	1942.7	2055.6	2127.8	2212.8	2379.9	2421.0	2041.1
60°	1636.4	1632.6	1705.5	1896.1	2156.8	2288.0	2340.2	2417.2	2529.4	2489.0	2028.4
62.5°	1714.8	1713.4	1819.4	2060.8	2383.7	2528.0	2569.5	2589.8	2637.1	2484.5	1926.8
65°	1797.3	1809.1	1952.4	2251.8	2643.7	2785.3	2802.5	2750.7	2673.4	2366.8	1719.0
67.5°	1807.7	1830.5	2036.0	2430.6	2890.3	3023.9	3010.1	2811.9	2566.3	2039.1	1347.4
70°	1616.7	1656.5	1902.7	2457.9	3063.9	3162.4	3062.6	2680.3	2177.9	1477.2	847.4
72.5°	1350.9	1385.0	1602.6	2096.0	2839.8	2965.2	2830.2	2268.7	1539.0	847.4	431.6
75°	1051.5	1091.2	1291.8	1666.1	2126.1	2176.1	2108.5	1582.2	846.0	349.5	196.1
77.5°	641.6	670.2	826.3	1128.8	1487.6	1412.7	1197.2	887.1	371.2	167.5	121.2
80°	283.8	301.5	407.1	606.4	859.5	812.5	640.6	378.8	203.0	106.4	84.6
82.5°	152.3	163.7	200.6	240.0	377.4	394.7	320.1	218.2	109.1	60.8	48.3
85°	67.0	73.6	91.2	87.0	124.0	121.9	122.9	149.9	52.1	28.0	31.4
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	3.8	20.0	5.2	8.3	7.3
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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 CATALOG NUMBER: GWS-SA1D-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6	785.6
2.5°	777.3	771.1	769.4	767.3	763.5	756.9	752.1	746.6	744.1	741.4	741.7
5°	758.0	750.4	743.1	733.8	722.0	708.9	699.9	689.6	684.1	678.9	680.3
7.5°	741.4	729.6	714.8	695.1	674.0	650.6	631.6	616.7	606.7	599.8	603.3
10°	731.0	717.2	691.3	659.2	623.6	587.7	560.4	534.9	519.0	506.6	505.9
12.5°	729.0	711.0	673.4	626.7	575.3	527.3	487.2	452.7	431.6	416.1	422.0
15°	731.0	708.2	657.8	596.7	531.8	466.9	417.1	377.4	352.2	338.1	337.0
17.5°	733.4	705.5	640.2	564.2	486.2	412.0	354.3	312.2	286.3	272.1	272.5
20°	735.5	701.3	619.5	528.7	439.9	360.8	301.1	261.1	237.9	227.6	229.3
22.5°	739.0	697.2	597.4	490.7	392.6	311.5	259.0	226.5	212.7	205.8	206.2
25°	745.5	694.8	574.6	449.2	346.0	272.1	230.0	208.2	199.6	195.4	195.1
27.5°	759.0	696.8	550.8	409.2	303.9	242.1	211.3	197.2	191.3	188.5	188.2
30°	781.4	705.1	530.1	368.4	267.6	218.6	198.6	189.9	186.5	184.1	183.7
32.5°	815.6	720.7	507.6	330.5	238.3	201.3	188.5	184.1	181.6	180.3	180.3
35°	867.4	749.0	485.5	297.3	215.5	187.8	180.6	178.9	176.8	176.1	176.8
37.5°	942.0	794.2	465.5	268.3	199.2	177.5	172.0	172.7	170.9	172.0	173.0
40°	1036.6	854.6	448.6	244.5	187.2	169.9	164.4	166.8	165.7	166.8	168.5
42.5°	1156.4	929.6	435.8	225.8	178.5	163.7	158.5	160.9	160.2	161.6	163.3
45°	1290.1	1028.3	429.9	212.7	172.3	159.2	153.7	155.4	154.7	155.7	157.5
47.5°	1418.2	1118.1	435.1	205.1	167.1	155.4	149.5	150.2	149.9	149.5	150.6
50°	1528.7	1189.6	449.9	202.7	163.7	151.6	146.1	146.4	145.4	143.3	144.0
52.5°	1618.8	1246.9	458.9	202.7	162.0	147.4	142.3	142.6	140.5	137.8	138.1
55°	1678.2	1270.1	451.7	202.4	161.3	144.0	138.5	138.8	136.7	133.3	133.6
57.5°	1695.1	1247.6	421.3	198.6	160.6	141.2	134.7	135.4	134.0	130.2	130.2
60°	1647.8	1165.4	365.7	189.9	158.8	139.5	131.9	132.9	132.3	128.5	128.5
62.5°	1523.9	1019.4	299.4	176.8	154.0	137.4	129.5	131.6	133.3	131.2	130.9
65°	1291.8	816.7	243.4	162.3	147.8	134.0	126.0	131.2	135.0	137.8	137.8
67.5°	969.3	584.6	198.6	147.1	138.5	127.1	121.5	126.4	129.1	130.9	131.9
70°	590.8	343.9	156.4	129.5	125.0	116.7	112.6	107.7	103.9	103.2	103.6
72.5°	289.0	196.8	127.1	110.2	106.7	99.1	89.8	87.7	86.0	84.9	84.6
75°	159.2	137.1	105.0	91.5	85.3	76.0	73.9	70.4	69.8	68.4	68.7
77.5°	112.6	108.1	86.7	74.2	64.9	60.1	61.1	58.7	58.7	57.7	57.3
80°	84.6	84.9	66.6	54.2	48.0	46.3	47.3	47.3	46.6	46.3	45.9
82.5°	53.5	60.4	44.9	34.9	34.2	34.5	34.2	33.8	34.5	33.5	33.1
85°	36.9	43.5	27.3	20.7	20.7	20.4	21.1	20.7	21.4	20.4	20.4
87.5°	8.3	19.3	10.0	6.2	6.6	6.2	6.6	6.9	7.6	7.9	7.9
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)