

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: P631558

Luminaire Tested: GWS-SA1F-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3975.4 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

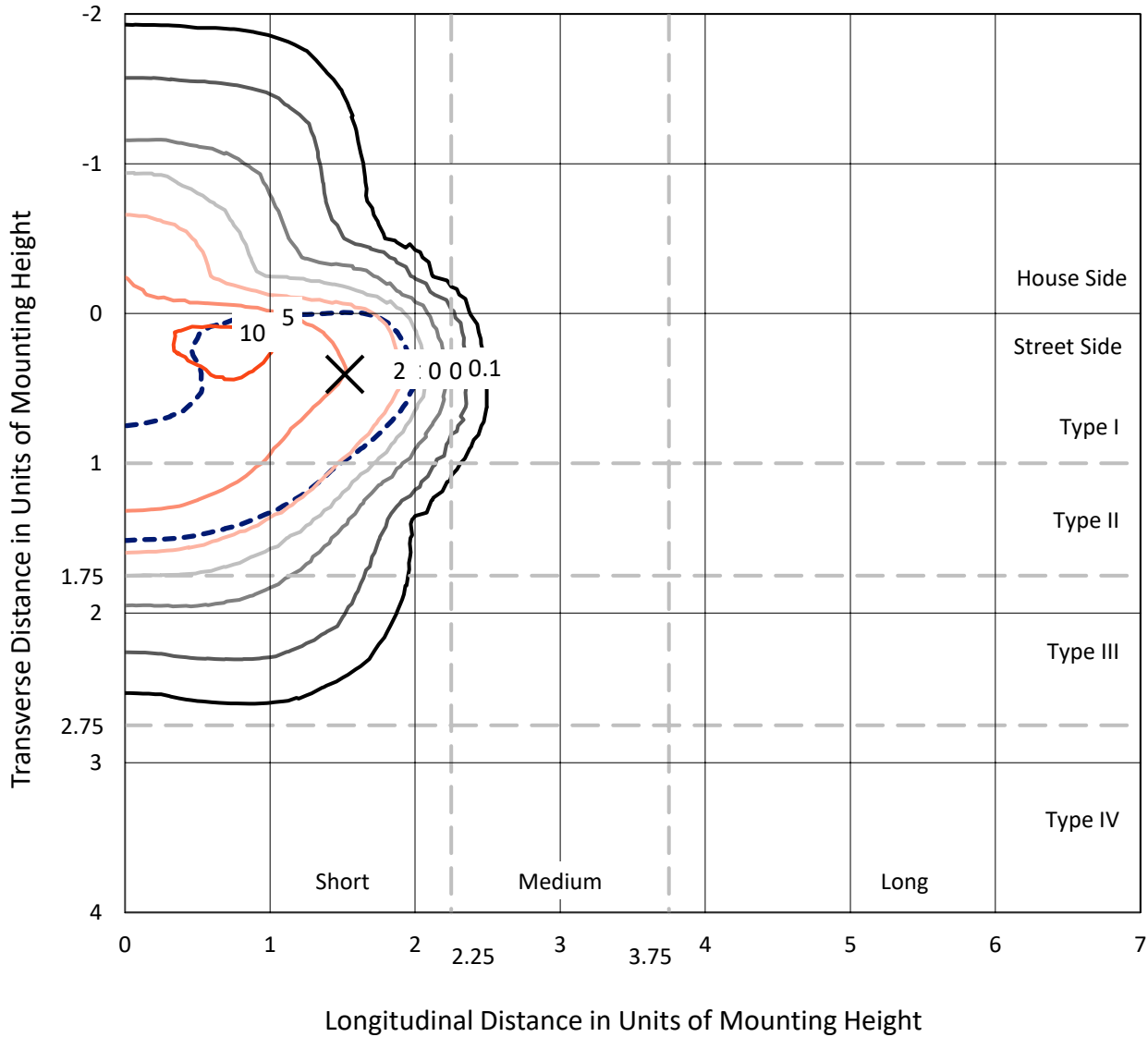
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

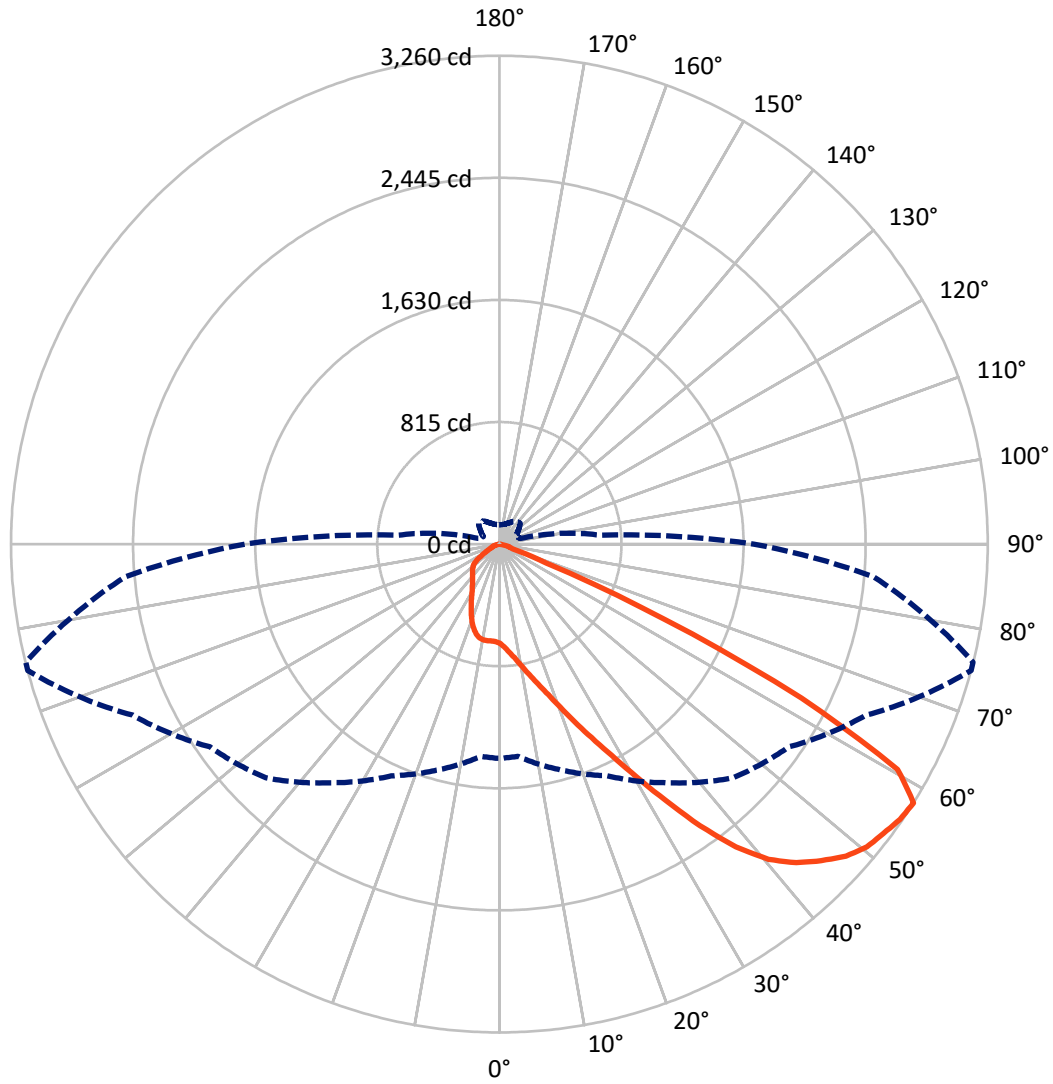
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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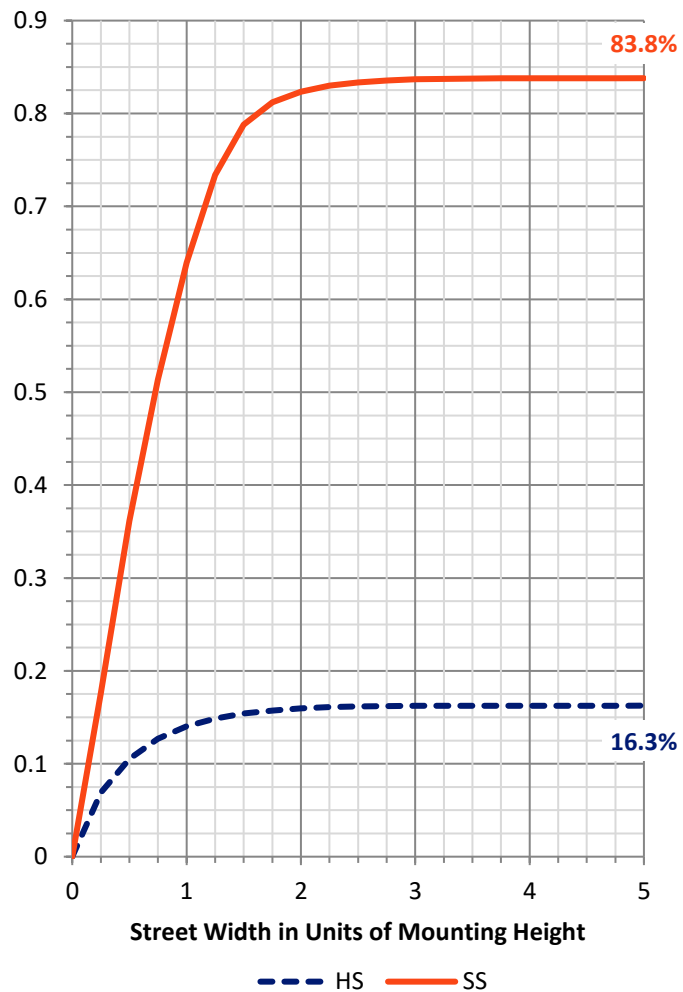
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.4	0.0	649.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3326.0	0.0	3326.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	3975.4	0.0	3975.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.7
10°-20°	219.2	5.5
20°-30°	401.4	10.1
30°-40°	665.9	16.8
40°-50°	1017.0	25.6
50°-60°	1142.7	28.7
60°-70°	421.5	10.6
70°-80°	40.3	1.0
80°-90°	0.0	0.0
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°	3975.4	100.0
0°-180°	3975.4	100.0

Coefficient of Utilization



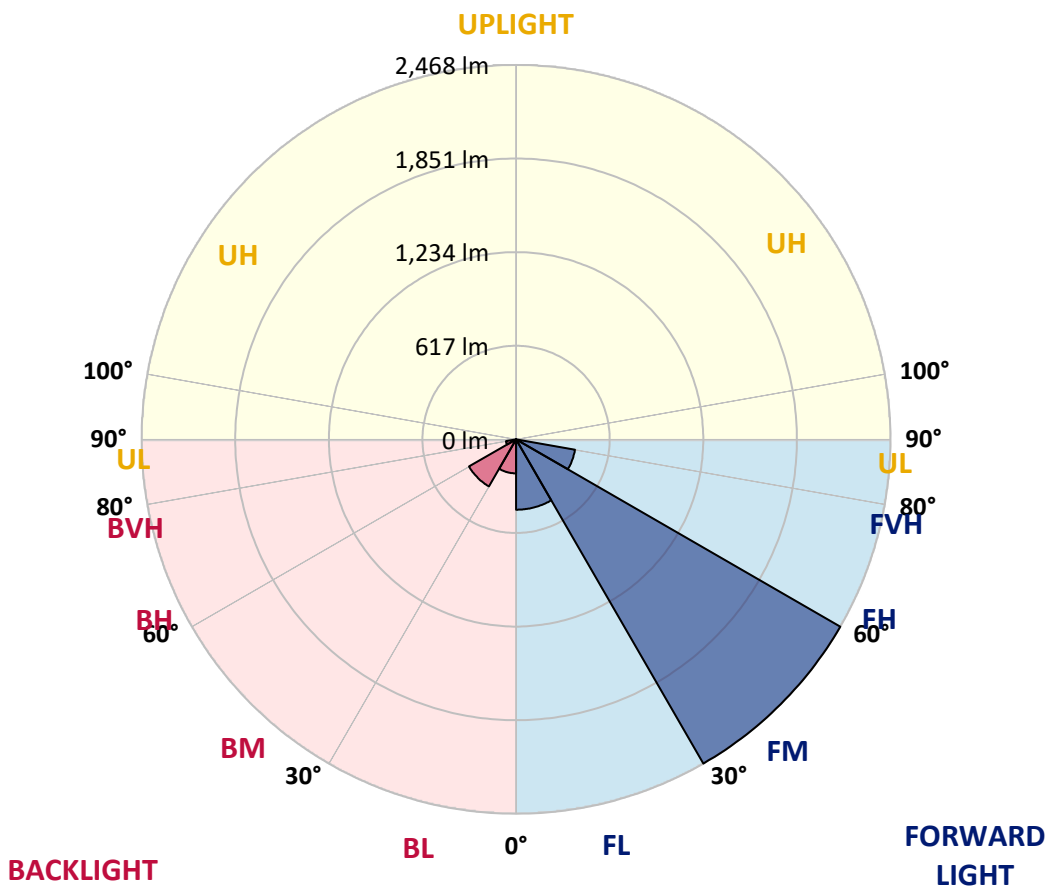
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.9	11.7			
FM (30°-60°)	2467.7	62.1			
FH (60°-80°)	394.3	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	224.1	5.6	B1/500		
BM (30°-60°)	357.9	9.0	B1/1000		
BH (60°-80°)	67.4	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P631558

CATALOG NUMBER: GWS-SA1F-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
2.5°	740.8	748.4	746.0	741.2	738.4	728.3	722.1	703.8	690.9	689.4	677.4
5°	834.3	832.9	831.0	825.2	820.4	804.6	785.9	755.2	727.8	724.5	699.0
7.5°	885.7	886.6	887.6	886.6	883.3	871.3	850.6	814.6	772.9	770.0	729.7
10°	906.8	908.7	913.5	922.6	930.8	929.8	917.8	880.9	829.5	824.7	770.5
12.5°	916.8	919.2	926.9	944.2	966.3	983.5	985.4	952.3	895.7	888.1	819.0
15°	930.8	933.2	942.7	965.3	997.4	1031.5	1053.6	1032.5	969.1	961.0	872.2
17.5°	937.0	940.3	954.3	984.0	1025.7	1078.0	1127.9	1126.0	1056.0	1049.7	934.1
20°	949.0	951.4	963.9	996.0	1046.4	1121.7	1205.7	1235.9	1162.0	1152.9	1009.0
22.5°	986.9	987.8	993.6	1013.8	1060.8	1153.4	1284.8	1364.0	1287.2	1275.2	1092.9
25°	1048.8	1048.3	1050.7	1054.1	1088.6	1185.5	1361.1	1508.4	1430.7	1417.7	1187.9
27.5°	1127.5	1127.5	1133.2	1123.6	1137.5	1225.3	1436.4	1674.4	1597.6	1579.4	1292.0
30°	1220.1	1219.6	1233.0	1217.7	1222.0	1288.2	1517.5	1855.3	1799.1	1776.6	1412.0
32.5°	1345.8	1342.9	1358.2	1337.1	1322.7	1383.2	1616.3	2044.3	2040.5	2005.9	1562.6
35°	1504.6	1499.8	1504.6	1483.9	1458.0	1516.1	1745.9	2232.8	2308.2	2271.7	1742.0
37.5°	1662.4	1677.8	1683.0	1647.5	1626.4	1684.5	1901.8	2401.7	2563.9	2526.0	1928.7
40°	1848.6	1843.8	1862.0	1822.2	1808.7	1873.0	2054.4	2527.4	2766.4	2730.4	2094.7
42.5°	1985.8	1994.4	2017.0	1994.9	1984.3	2044.8	2182.5	2600.8	2906.9	2871.4	2213.2
45°	2150.3	2156.6	2165.2	2147.0	2135.9	2195.4	2275.1	2633.0	3013.9	2975.5	2292.8
47.5°	2328.3	2333.1	2333.1	2295.7	2260.2	2284.7	2337.0	2651.2	3112.3	3075.3	2351.8
50°	2455.9	2458.3	2479.4	2453.1	2375.8	2337.9	2365.3	2669.0	3177.5	3143.0	2371.0
52.5°	2342.7	2339.8	2409.4	2464.1	2484.7	2409.4	2414.2	2694.9	3209.2	3179.4	2386.4
55°	1972.8	1968.0	2065.9	2198.8	2380.6	2477.0	2473.2	2710.2	3244.2	3226.0	2442.0
57.5°	1430.2	1422.0	1558.3	1706.1	1944.5	2206.0	2359.5	2701.6	3259.6	3258.1	2506.8
60°	859.7	853.0	981.6	1137.1	1321.3	1584.2	1839.0	2420.0	3054.2	3057.1	2338.4
62.5°	529.2	535.4	651.5	730.7	799.3	878.5	1025.7	1627.9	2262.6	2281.3	1643.2
65°	356.0	360.8	468.3	568.0	568.0	464.4	398.7	778.2	1207.1	1175.4	777.2
67.5°	238.9	244.2	329.1	445.7	462.5	323.8	161.7	232.2	336.3	326.2	192.4
70°	140.6	146.3	219.3	305.6	336.8	225.5	107.9	98.4	95.5	92.6	74.8
72.5°	62.8	65.2	111.8	155.4	142.0	95.0	76.3	78.7	74.4	72.9	60.9
75°	19.2	20.2	28.8	33.6	34.1	34.1	46.1	61.9	58.5	59.0	47.0
77.5°	4.8	4.8	7.7	7.2	3.8	3.4	8.6	13.9	14.4	13.0	9.6
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-SA1F-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
2.5°	672.2	659.7	651.5	640.0	631.9	623.2	615.5	609.3	605.9	605.0	605.5
5°	687.5	667.8	648.6	626.6	611.2	596.8	585.3	576.2	571.9	570.4	570.4
7.5°	711.0	683.7	649.6	615.1	589.2	566.6	553.2	543.1	539.3	538.3	535.4
10°	741.7	704.3	648.2	594.4	558.0	534.5	524.9	522.0	523.4	523.9	523.4
12.5°	778.7	725.9	639.1	564.2	524.9	510.5	511.4	519.1	527.7	532.1	533.0
15°	818.0	745.6	618.4	528.2	496.6	496.1	510.0	527.7	544.5	551.7	553.7
17.5°	862.1	761.4	586.8	489.8	472.1	486.0	511.0	538.3	560.9	572.8	575.2
20°	910.6	774.3	546.5	453.9	450.5	475.5	510.0	543.6	571.4	584.8	587.2
22.5°	961.0	783.5	499.9	420.8	430.8	463.5	500.9	533.5	559.9	575.2	577.2
25°	1018.6	784.4	452.4	392.9	412.6	447.1	478.8	505.7	527.7	541.2	542.6
27.5°	1068.9	772.9	410.2	370.4	395.8	427.0	448.1	463.0	478.3	486.0	486.5
30°	1127.0	752.8	370.4	352.2	378.5	402.0	412.6	416.0	417.4	418.8	416.9
32.5°	1196.1	728.3	340.6	334.4	358.9	374.7	377.6	370.9	362.7	351.2	348.3
35°	1281.0	706.2	316.2	317.1	337.3	346.9	344.5	330.1	314.2	300.3	297.9
37.5°	1373.1	687.5	297.5	300.3	313.8	320.5	313.3	297.5	290.3	278.3	278.7
40°	1454.7	672.2	280.7	283.5	289.8	296.0	284.5	273.9	287.4	286.4	287.4
42.5°	1512.7	659.2	266.3	264.8	269.2	273.5	264.8	259.6	282.1	275.9	279.2
45°	1546.8	647.2	254.3	245.6	252.4	260.0	254.3	247.6	255.2	226.5	224.1
47.5°	1569.8	640.5	243.7	226.9	238.9	252.4	240.4	224.1	213.0	188.1	186.2
50°	1572.2	637.1	231.2	207.7	223.1	237.5	223.6	201.0	185.2	174.2	172.7
52.5°	1584.7	643.9	214.0	183.3	200.1	223.1	213.5	190.9	169.4	159.8	157.8
55°	1640.3	672.2	185.2	149.7	174.2	212.1	205.3	170.3	149.7	143.9	142.5
57.5°	1697.9	677.9	145.8	118.5	151.6	196.2	187.6	156.9	136.7	130.0	128.6
60°	1552.5	558.5	109.4	97.9	133.9	181.4	173.7	148.7	125.2	117.1	115.6
62.5°	1020.0	301.8	86.8	83.0	112.7	153.5	158.3	134.3	111.8	103.2	102.7
65°	470.2	140.1	66.7	65.7	88.3	122.3	136.3	117.5	94.5	86.8	86.8
67.5°	128.1	69.6	52.3	48.5	60.0	82.0	99.3	87.8	67.2	58.1	57.6
70°	63.8	56.1	47.0	41.7	43.2	50.9	58.5	48.9	34.1	27.8	27.3
72.5°	52.3	46.1	39.8	35.5	32.6	31.2	30.2	24.5	15.8	12.0	11.5
75°	38.9	33.1	28.3	23.0	19.7	18.2	16.3	12.0	6.7	3.8	3.4
77.5°	8.6	8.2	7.7	5.8	5.3	4.3	3.4	2.4	1.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

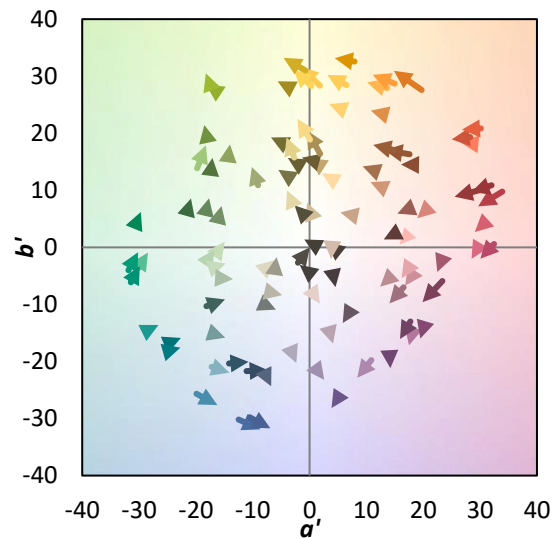
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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