

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: P632037

Luminaire Tested: GWS-SA2B-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387.3 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

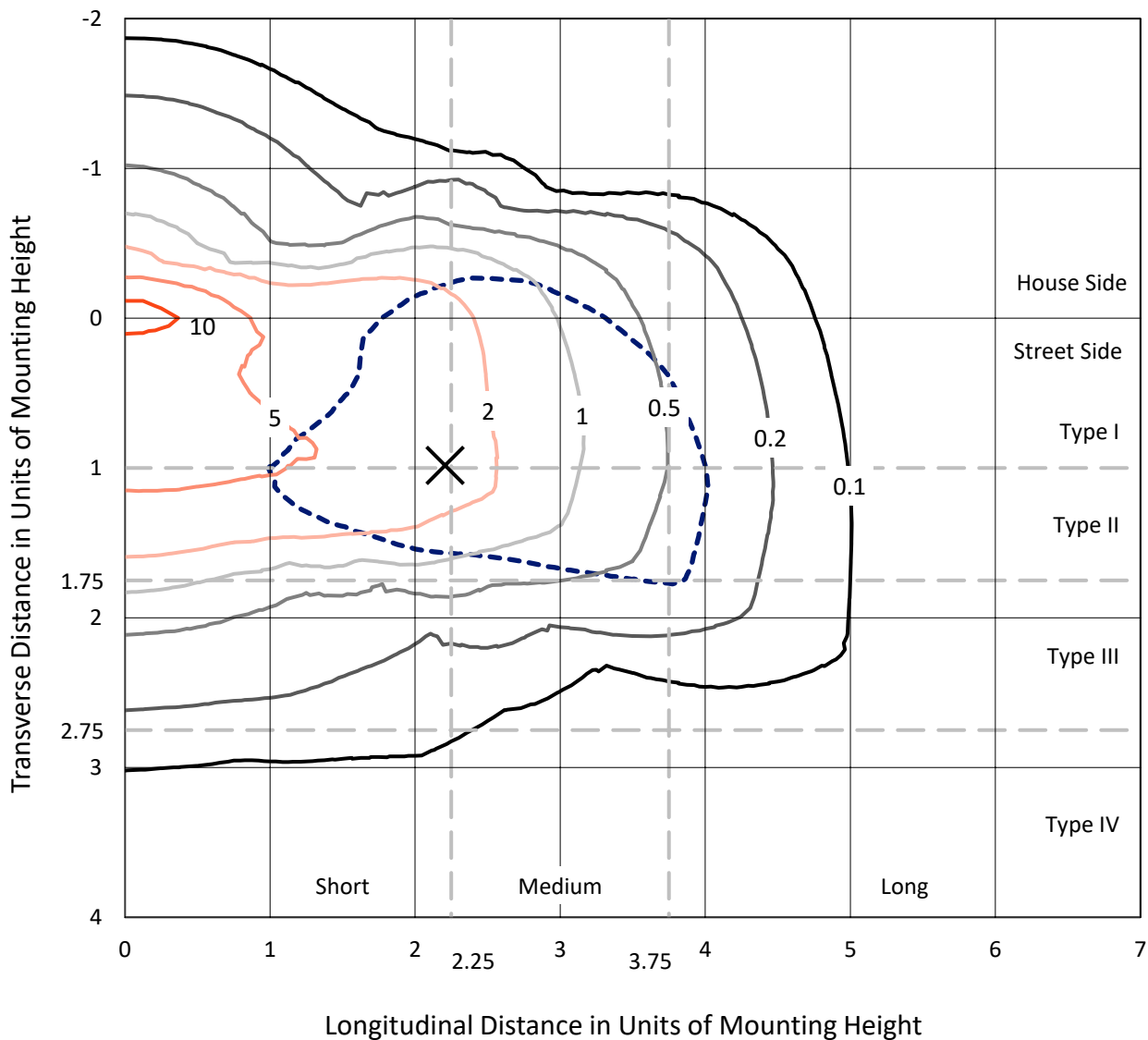
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

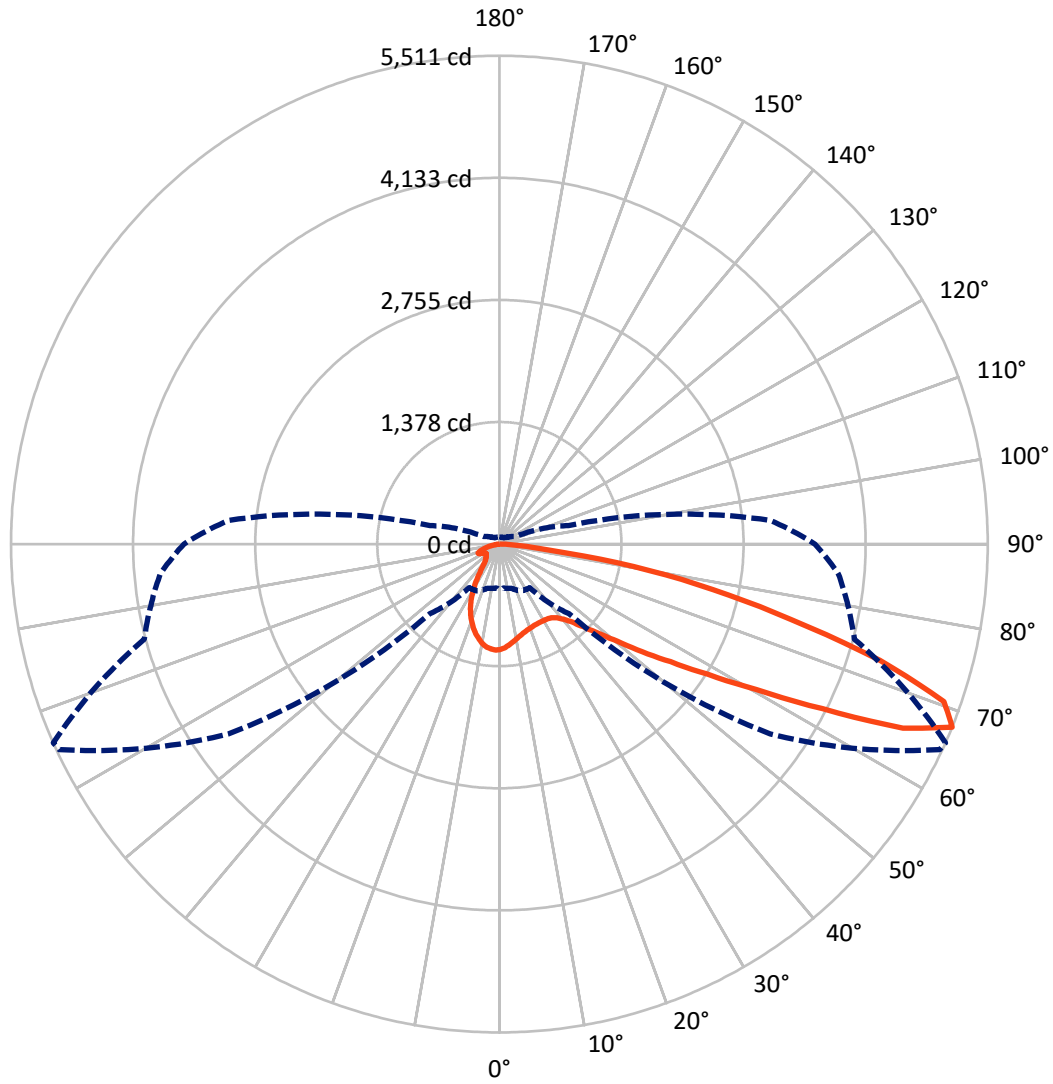
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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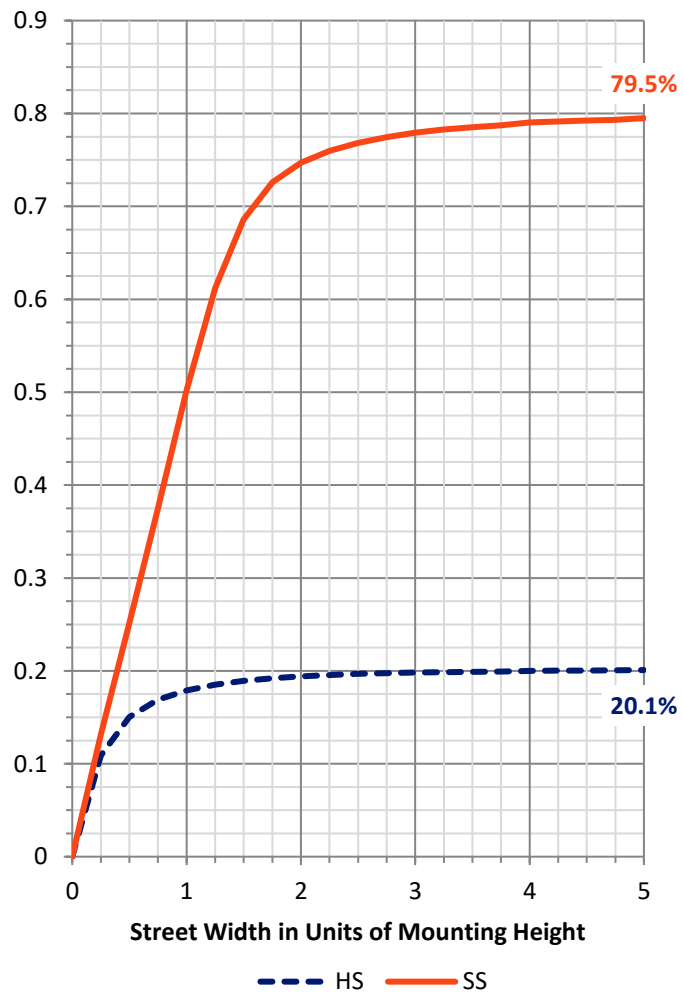
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.2	0.0	1093.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4294.1	0.0	4294.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	5387.3	0.0	5387.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.9
10°-20°	256.8	4.8
20°-30°	352.9	6.6
30°-40°	482.5	9.0
40°-50°	731.1	13.6
50°-60°	1136.6	21.1
60°-70°	1383.7	25.7
70°-80°	842.9	15.6
80°-90°	96.3	1.8
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°	5387.3	100.0
0°-180°	5387.3	100.0

Coefficient of Utilization



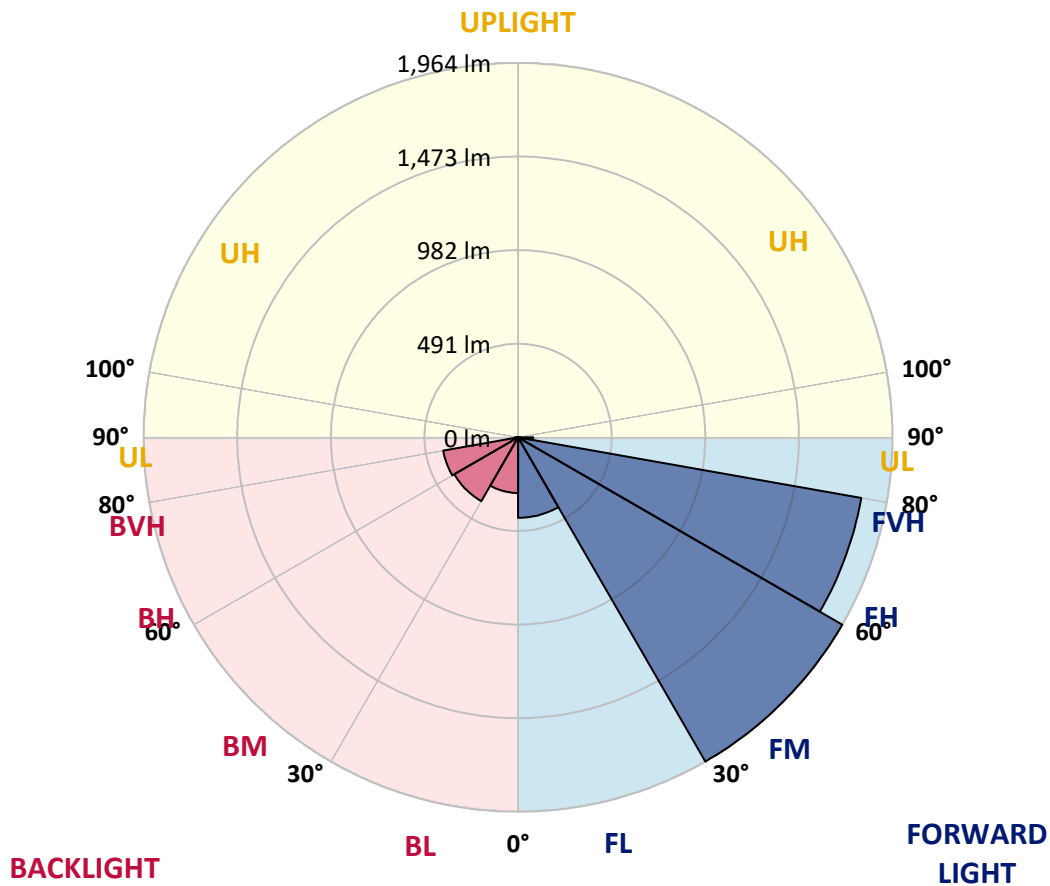
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.1	7.8			
FM (30°-60°)	1963.9	36.5			
FH (60°-80°)	1828.0	33.9			G2/5000
FVH (80°-90°)	80.0	1.5			G1/100
BL (0°-30°)	292.0	5.4	B1/500		
BM (30°-60°)	386.3	7.2	B1/1000		
BH (60°-80°)	398.6	7.4	B1/500		G1/500
BVH (80°-90°)	16.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4
2.5°	1115.0	1118.9	1116.6	1131.5	1132.3	1151.1	1161.8	1170.8	1171.6	1183.4	1191.2
5°	1038.7	1041.1	1041.1	1055.2	1064.7	1089.8	1114.2	1140.1	1142.1	1170.4	1192.0
7.5°	977.0	979.4	977.8	996.7	1008.9	1036.8	1067.8	1107.5	1111.4	1157.0	1194.8
10°	928.7	927.9	931.8	949.1	964.9	998.3	1032.8	1078.0	1083.9	1141.7	1197.9
12.5°	895.7	896.5	898.8	916.9	933.8	966.8	1002.6	1051.7	1058.0	1124.0	1196.3
15°	880.0	878.4	880.4	896.9	913.0	942.1	979.0	1029.7	1036.0	1108.3	1196.7
17.5°	876.4	875.2	874.8	886.6	898.8	925.9	961.3	1012.8	1019.5	1098.1	1199.1
20°	887.4	885.9	881.5	886.6	891.7	914.5	948.7	1000.6	1008.1	1091.4	1203.8
22.5°	917.7	914.9	908.3	902.0	895.3	909.0	940.9	991.6	999.0	1087.1	1208.5
25°	963.7	961.3	954.2	940.1	915.7	913.4	939.3	987.6	995.1	1083.9	1210.5
27.5°	1026.9	1023.4	1016.3	995.9	956.2	929.5	945.2	987.3	994.3	1080.4	1208.5
30°	1102.0	1099.7	1095.7	1071.0	1017.9	963.7	958.6	990.4	995.9	1078.4	1204.6
32.5°	1178.3	1175.9	1179.0	1167.3	1102.0	1020.3	987.6	999.0	1003.0	1078.0	1201.1
35°	1245.5	1248.2	1271.0	1273.0	1208.9	1096.9	1033.6	1019.1	1019.9	1085.9	1202.6
37.5°	1315.8	1326.4	1356.3	1381.8	1328.4	1198.3	1102.0	1056.8	1056.0	1105.9	1212.4
40°	1409.0	1413.7	1451.8	1499.7	1466.3	1337.4	1199.1	1118.5	1113.0	1146.8	1238.8
42.5°	1499.7	1511.1	1572.1	1627.1	1616.1	1494.2	1321.3	1210.9	1201.1	1219.1	1293.0
45°	1615.3	1626.3	1694.7	1765.4	1785.5	1671.5	1477.7	1342.1	1332.3	1328.0	1392.4
47.5°	1730.8	1742.2	1803.5	1905.7	1976.1	1893.1	1681.3	1515.5	1499.3	1482.4	1542.6
50°	1808.7	1822.0	1880.6	2003.2	2168.3	2169.8	1922.6	1742.6	1722.2	1695.5	1754.0
52.5°	1805.9	1814.5	1870.4	2011.8	2306.6	2487.8	2245.7	2031.9	2015.4	1957.2	2008.3
55°	1664.0	1677.0	1733.2	1910.0	2321.5	2789.2	2720.4	2373.0	2343.5	2239.4	2295.6
57.5°	1379.1	1390.1	1446.7	1664.8	2189.1	2943.7	3323.3	2807.7	2767.2	2546.7	2611.6
60°	1041.1	1027.7	1054.5	1245.5	1872.3	2947.6	3855.5	3397.2	3329.6	2875.3	2929.5
62.5°	781.3	767.9	773.8	827.7	1269.4	2709.4	4158.9	4203.7	4092.1	3246.3	3235.7
65°	617.4	610.0	626.9	663.8	740.0	2063.3	4161.2	5075.8	5005.4	3676.3	3549.7
67.5°	503.1	498.3	515.6	584.0	600.1	1108.7	3731.3	5482.9	5510.5	4147.1	3840.9
70°	405.2	398.1	425.2	515.2	558.1	670.9	2672.9	5275.4	5319.8	4427.7	3758.8
72.5°	279.8	280.2	294.0	417.4	538.8	579.3	1511.9	4392.7	4489.0	4173.4	3304.5
75°	188.6	190.2	194.1	275.5	496.4	562.0	805.7	3325.7	3393.7	3449.5	2731.4
77.5°	114.0	114.8	123.8	166.6	342.3	524.7	545.9	2410.7	2464.2	2274.0	1693.1
80°	66.0	68.8	77.0	111.6	231.1	394.2	422.5	1478.1	1538.7	1010.8	538.0
82.5°	29.1	31.0	42.1	64.8	134.8	335.2	329.7	584.0	575.4	281.8	186.7
85°	5.1	6.3	9.0	20.4	49.5	176.9	255.9	257.8	242.5	106.9	77.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	38.5	69.2	68.8	30.3	26.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4
2.5°	1196.3	1185.7	1195.2	1196.3	1194.4	1192.8	1181.0	1170.8	1169.6	1158.6	1158.6
5°	1200.7	1190.8	1195.5	1186.5	1172.4	1157.8	1132.7	1115.4	1107.5	1093.4	1093.4
7.5°	1206.6	1196.3	1190.8	1168.4	1135.4	1103.6	1063.1	1029.3	1015.5	995.5	994.7
10°	1212.1	1199.1	1180.2	1136.6	1083.9	1033.2	974.3	926.3	893.7	869.7	869.7
12.5°	1211.7	1194.8	1157.4	1093.0	1020.3	946.8	868.2	795.9	752.6	715.3	712.9
15°	1210.9	1187.7	1128.3	1042.3	946.0	844.2	737.3	643.0	578.9	542.4	539.2
17.5°	1210.1	1178.6	1095.7	984.5	855.6	716.9	575.8	473.6	420.1	397.7	398.5
20°	1210.1	1168.4	1060.7	918.1	751.4	564.4	422.5	348.2	334.8	336.0	337.2
22.5°	1206.6	1155.9	1021.8	845.8	635.5	415.0	311.7	286.5	293.6	304.6	306.2
25°	1198.3	1135.0	976.6	765.6	497.6	302.2	254.3	249.6	262.5	276.3	280.2
27.5°	1185.3	1111.1	925.9	671.7	366.3	242.9	223.6	223.2	233.5	243.7	247.2
30°	1171.6	1084.3	872.5	567.1	265.3	211.4	204.0	204.0	209.1	215.4	214.6
32.5°	1155.5	1057.2	815.1	458.3	216.2	193.8	191.4	190.2	191.0	193.4	193.4
35°	1141.7	1033.2	756.2	343.1	193.8	183.9	181.6	178.8	177.6	176.1	176.9
37.5°	1136.6	1014.4	695.2	258.6	182.8	176.9	172.9	169.0	166.2	165.5	165.1
40°	1144.9	1006.5	634.3	213.0	174.9	169.4	165.1	160.0	157.6	157.6	157.6
42.5°	1177.1	1012.4	572.2	192.6	169.4	163.1	156.8	152.1	151.3	152.1	152.5
45°	1236.0	1035.2	507.8	182.4	164.7	156.8	149.3	145.8	145.8	146.6	146.6
47.5°	1341.4	1094.9	444.1	176.1	160.0	151.7	143.8	140.3	139.9	140.7	140.7
50°	1523.7	1202.6	386.7	171.7	156.4	147.8	139.9	135.2	134.0	133.6	133.6
52.5°	1753.6	1389.3	350.2	168.6	152.1	143.5	135.6	129.3	126.9	125.8	125.8
55°	2031.5	1638.1	350.2	166.2	146.6	138.3	129.3	123.0	119.5	117.9	117.9
57.5°	2346.3	1927.7	410.7	164.3	142.3	132.4	122.6	116.3	112.4	110.0	110.0
60°	2666.6	2233.9	560.4	161.5	138.3	125.0	115.2	109.3	104.1	101.4	101.0
62.5°	2998.7	2571.1	757.7	163.1	135.6	117.9	107.3	100.6	96.3	93.5	93.1
65°	3302.9	2892.2	930.3	175.3	136.0	111.6	98.3	92.4	88.8	85.3	84.9
67.5°	3561.1	3069.4	809.2	200.0	144.2	104.1	89.2	83.3	80.2	77.8	77.4
70°	3380.3	2799.0	459.0	215.4	155.6	96.3	79.0	75.1	71.9	70.3	70.0
72.5°	2890.6	2369.9	306.9	190.2	141.9	86.1	69.6	66.4	64.1	62.1	61.7
75°	2341.6	1879.4	234.6	156.0	110.4	70.0	59.7	57.4	55.0	53.1	52.7
77.5°	1385.4	1085.9	172.9	123.4	77.8	54.6	49.5	47.6	45.2	43.6	43.2
80°	442.1	377.3	109.7	84.9	51.5	42.1	38.1	36.6	34.2	32.2	31.8
82.5°	168.6	145.8	58.2	43.2	34.2	28.7	25.5	24.0	22.4	20.4	20.0
85°	74.7	70.0	32.2	23.2	18.5	14.1	12.6	11.8	9.8	8.3	7.9
87.5°	26.3	26.3	13.8	6.7	3.9	2.0	1.2	0.4	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

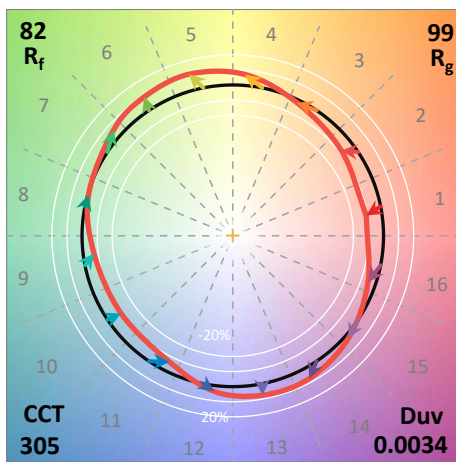
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500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