

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P318225

Luminaire Tested: **GLEON-SA1A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3804 lumens
Efficiency: N/A
Efficacy: 111.9 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

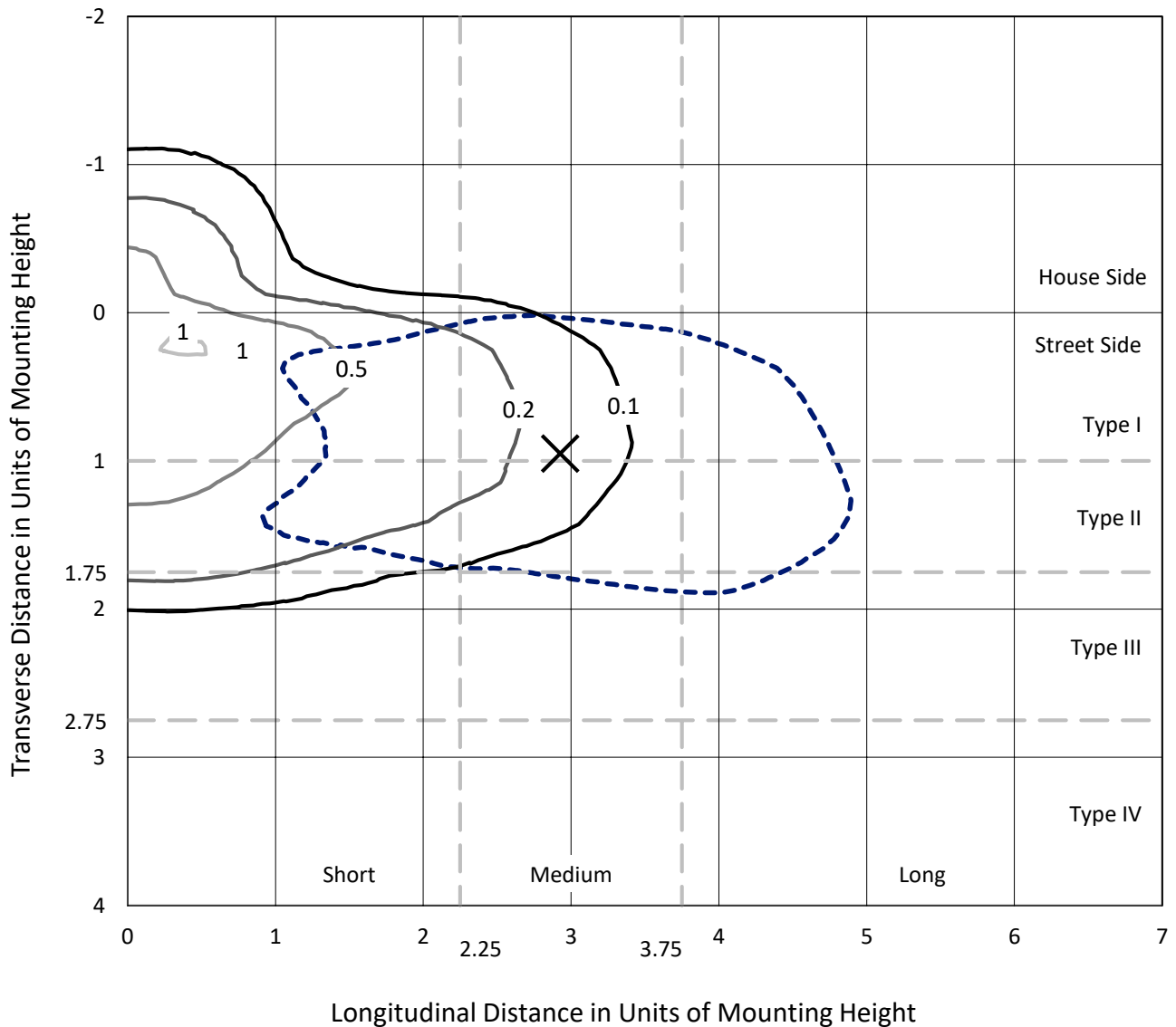
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

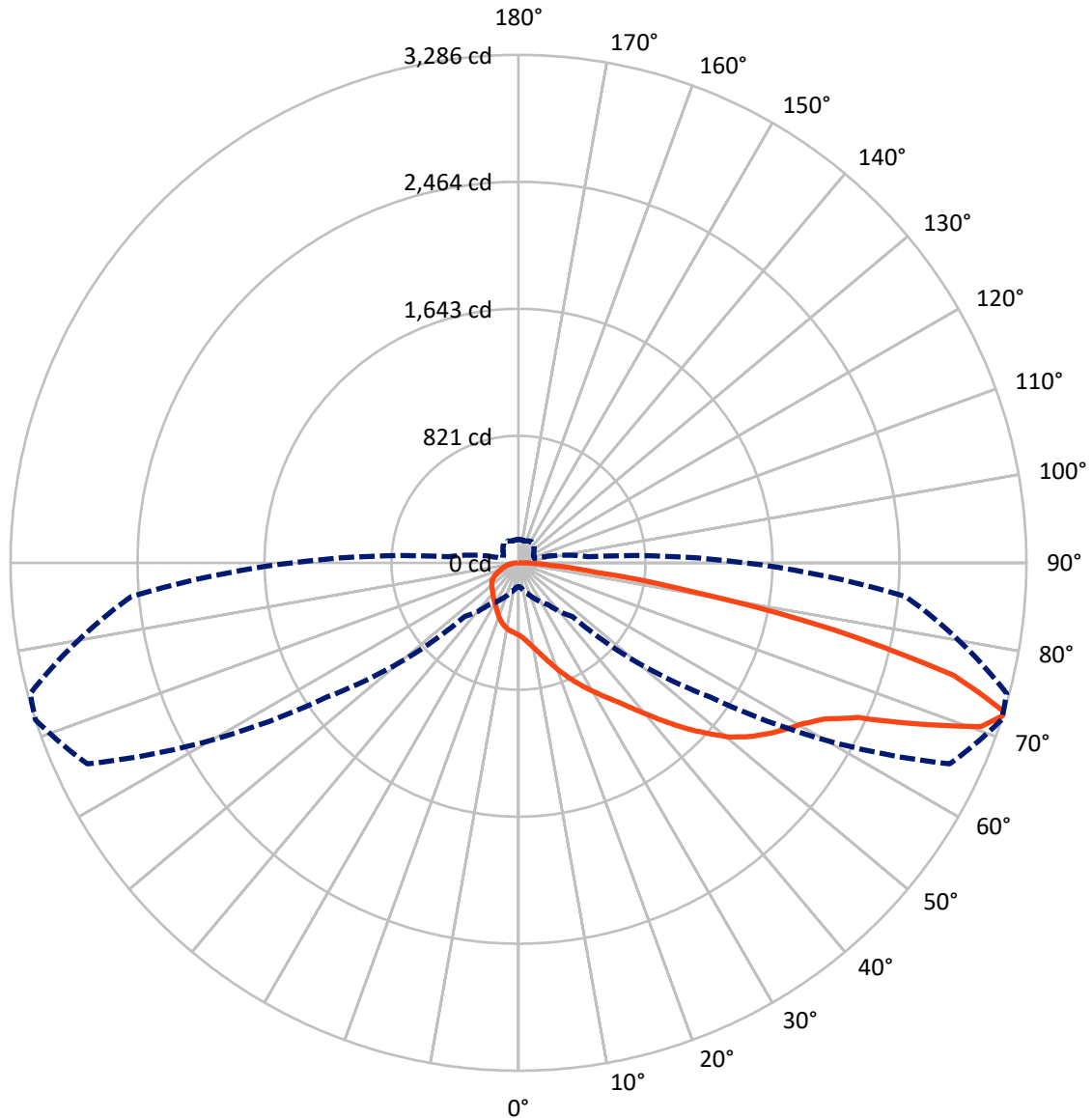
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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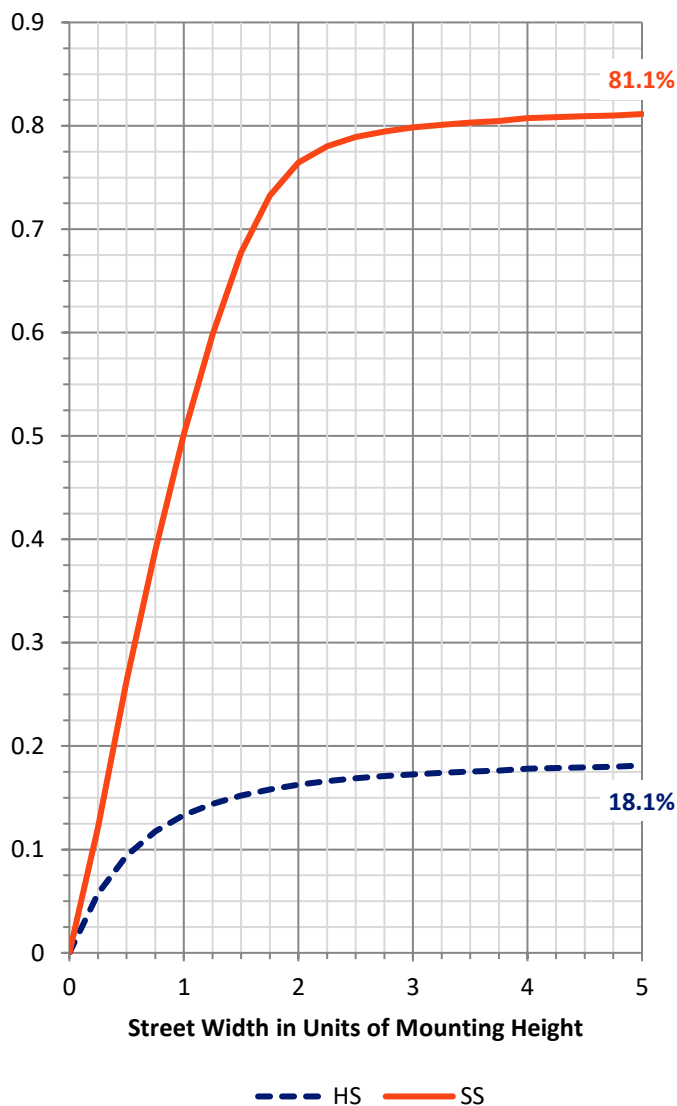
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.7	0.0	705.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3098.3	0.0	3098.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	3804.0	0.0	3804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.2
10°-20°	151.5	4.0
20°-30°	265.5	7.0
30°-40°	393.7	10.4
40°-50°	575.8	15.1
50°-60°	792.4	20.8
60°-70°	882.1	23.2
70°-80°	597.7	15.7
80°-90°	98.2	2.6
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°	3804.0	100.0
0°-180°	3804.0	100.0

Coefficient of Utilization

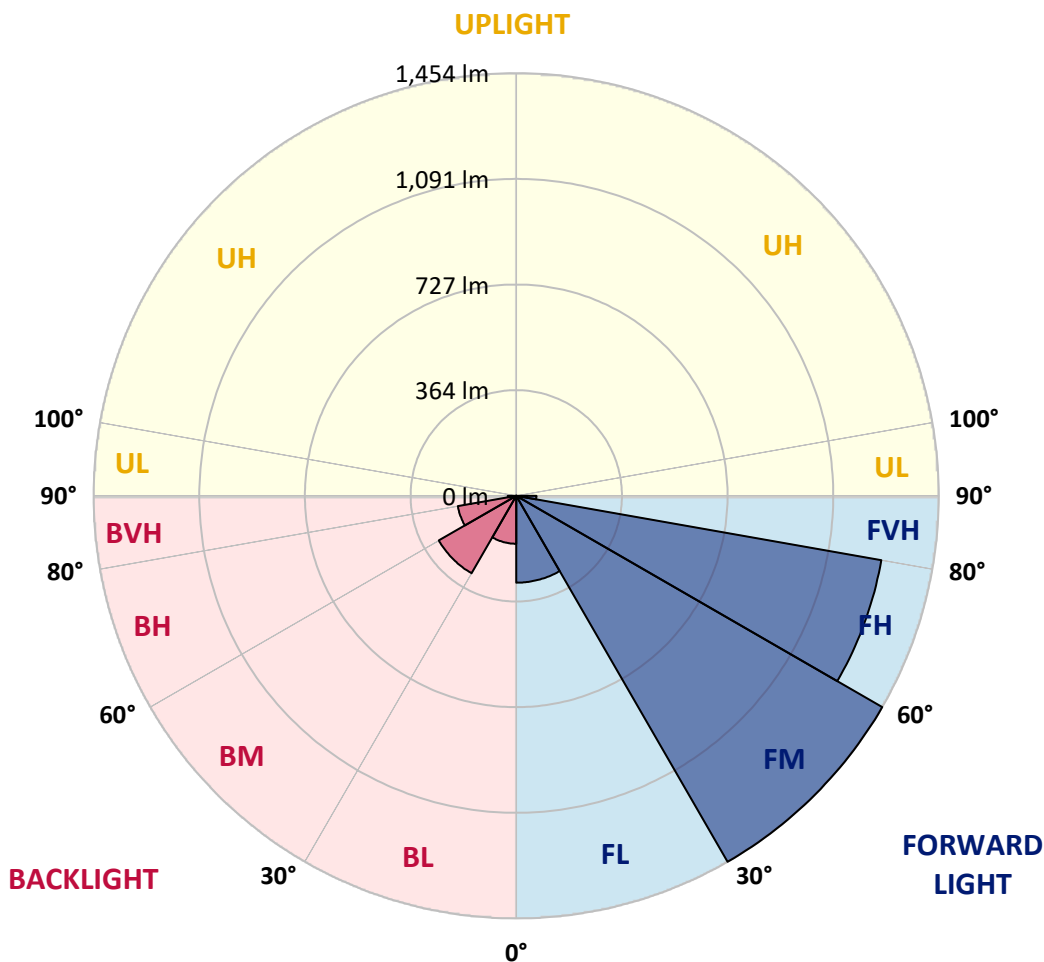


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.0	7.9			
FM (30°-60°)	1454.3	38.2			
FH (60°-80°)	1275.7	33.5			G1/1800
FVH (80°-90°)	69.3	1.8			G1/100
BL (0°-30°)	165.0	4.3	B1/500		
BM (30°-60°)	307.6	8.1	B1/1000		
BH (60°-80°)	204.2	5.4	B1/500		G1/500
BVH (80°-90°)	28.9	0.8			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
2.5°	517.0	516.2	513.4	513.4	508.2	503.7	495.4	489.7	483.1	480.7	472.8
5°	567.0	567.3	563.9	561.5	553.8	544.4	530.1	517.1	504.1	498.9	482.8
7.5°	609.1	608.5	607.6	605.7	598.4	588.8	569.5	550.2	531.1	523.3	495.5
10°	636.0	637.2	638.0	638.9	635.9	629.0	610.8	587.3	562.3	551.6	510.7
12.5°	649.7	651.8	655.4	661.7	666.7	665.9	652.7	627.8	598.1	584.6	529.7
15°	657.7	660.4	666.2	677.4	691.4	699.4	695.9	673.4	640.2	623.6	552.9
17.5°	662.6	664.9	673.8	688.8	709.6	730.9	740.2	721.3	687.9	668.9	579.5
20°	666.0	667.7	678.9	696.6	723.5	757.3	783.3	778.5	740.4	715.8	607.2
22.5°	673.6	675.1	685.7	703.5	733.4	777.0	824.8	831.9	795.8	767.9	637.0
25°	694.8	694.8	703.8	716.2	744.2	794.0	859.9	891.2	852.4	819.9	664.5
27.5°	735.3	734.9	738.2	742.5	763.7	811.3	891.2	943.6	911.1	875.6	691.2
30°	783.3	785.9	786.3	784.2	794.1	832.9	920.1	998.9	970.2	931.9	718.6
32.5°	845.0	846.7	844.7	837.7	836.3	863.6	948.6	1056.7	1034.1	990.7	743.6
35°	923.3	920.0	913.8	899.7	886.2	904.5	981.0	1114.6	1105.9	1061.9	778.0
37.5°	1007.2	1007.4	999.8	967.7	949.1	956.9	1025.8	1180.3	1192.7	1146.5	822.2
40°	1074.6	1078.1	1082.8	1040.6	1016.5	1027.4	1082.8	1256.4	1295.4	1246.8	879.7
42.5°	1121.6	1125.6	1139.0	1112.5	1087.5	1107.7	1149.9	1337.6	1410.7	1362.6	947.0
45°	1171.4	1173.6	1183.0	1171.6	1155.6	1201.1	1225.4	1421.7	1532.6	1486.0	1022.3
47.5°	1223.7	1226.1	1235.8	1228.2	1219.8	1288.3	1304.3	1500.9	1649.4	1621.5	1102.7
50°	1288.4	1290.0	1299.2	1285.4	1288.1	1354.1	1374.8	1573.6	1771.9	1743.3	1183.4
52.5°	1376.7	1377.1	1389.8	1377.4	1365.1	1402.3	1435.4	1642.1	1867.9	1854.4	1264.1
55°	1445.9	1450.1	1491.7	1489.1	1482.0	1446.0	1486.1	1707.3	1953.6	1960.0	1349.7
57.5°	1401.7	1418.1	1502.5	1561.9	1619.8	1554.9	1554.6	1780.8	2033.2	2063.6	1443.9
60°	1227.7	1249.9	1374.2	1506.1	1687.3	1744.3	1696.8	1870.5	2113.6	2166.3	1561.9
62.5°	876.8	913.5	1081.9	1292.5	1594.8	1869.7	1986.3	2012.9	2223.0	2285.2	1715.3
65°	443.2	471.0	612.2	865.9	1274.2	1787.7	2300.9	2324.6	2413.0	2468.3	1951.5
67.5°	269.3	279.8	348.7	481.6	781.2	1392.6	2403.6	2844.2	2780.8	2810.2	2288.2
70°	198.4	206.2	249.1	319.9	449.3	817.2	2088.5	3215.0	3173.4	3170.1	2537.1
72°	154.6	160.2	198.2	258.4	328.5	490.3	1513.7	3078.2	3285.8	3269.3	2514.3
72.5°	146.6	151.5	186.1	243.2	310.4	444.4	1361.0	2985.8	3277.6	3270.2	2484.8
75°	115.4	118.9	137.8	188.1	243.0	252.1	745.8	2313.9	2907.6	3028.5	2234.9
77.5°	95.5	96.0	106.0	136.9	189.4	178.3	366.4	1605.4	2082.1	2215.0	1583.2
80°	77.8	78.5	83.2	96.0	143.3	131.9	173.9	923.1	1165.7	1167.2	752.9
82.5°	62.0	62.1	67.3	70.2	103.0	94.3	99.7	433.4	509.4	490.0	270.6
85°	43.6	42.7	65.8	57.6	67.3	60.5	55.0	171.6	210.6	201.4	84.7
87.5°	14.5	15.1	29.2	37.3	39.3	34.3	24.5	65.8	79.5	78.8	26.9
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°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0
2.5°	470.3	466.2	460.0	453.2	447.8	442.3	438.3	436.2	433.8	431.8	434.2
5°	475.3	467.5	454.4	441.5	432.1	423.7	417.7	414.6	411.7	409.7	410.0
7.5°	483.4	470.7	448.7	430.0	416.9	407.9	401.7	399.6	397.8	397.3	397.9
10°	492.1	473.4	441.3	416.4	401.5	394.0	391.2	392.7	394.0	395.2	396.5
12.5°	501.9	475.7	430.4	400.4	387.7	384.8	387.6	393.9	398.4	401.2	402.9
15°	514.8	477.8	417.8	384.4	375.9	379.2	388.5	399.4	407.3	412.5	413.2
17.5°	526.5	477.7	401.7	368.3	366.4	375.9	389.9	405.3	416.0	423.2	424.6
20°	538.7	474.1	383.0	352.6	356.7	372.4	390.6	409.1	422.0	430.4	432.4
22.5°	550.1	468.0	362.4	338.3	348.5	367.7	388.1	406.8	419.8	426.6	428.7
25°	557.8	457.3	341.6	326.3	341.3	361.9	380.0	395.0	404.7	408.1	408.7
27.5°	561.8	443.2	321.9	315.8	333.9	352.5	364.9	372.4	375.1	374.9	374.3
30°	562.3	424.8	305.1	307.3	325.2	338.6	344.5	343.0	339.5	333.5	334.0
32.5°	560.6	403.9	290.9	299.2	314.2	321.7	321.9	315.0	305.6	296.0	293.4
35°	561.1	383.5	278.5	290.0	300.9	304.1	301.1	290.9	278.1	265.8	263.1
37.5°	566.9	365.7	267.7	279.4	286.1	286.8	282.5	271.8	262.4	250.3	249.3
40°	580.6	353.0	257.5	267.5	271.3	271.7	265.5	257.9	258.7	252.3	252.1
42.5°	605.4	347.5	248.5	255.0	257.4	258.2	253.4	248.6	255.4	251.2	249.8
45°	637.3	348.8	240.9	242.8	247.2	250.8	247.9	242.1	244.7	226.5	220.4
47.5°	674.3	357.2	234.8	232.4	239.8	246.8	242.3	233.4	224.1	206.0	202.6
50°	717.5	370.1	229.3	222.0	231.8	241.3	236.8	224.1	210.1	201.3	200.1
52.5°	762.6	386.0	223.8	210.6	221.7	237.1	234.8	222.0	204.7	196.1	194.5
55°	813.6	402.0	216.9	197.4	210.9	235.1	233.9	214.4	200.7	195.8	194.6
57.5°	877.2	420.2	207.7	183.6	200.7	228.0	224.4	209.8	196.5	192.8	192.4
60°	960.0	447.0	194.5	169.0	188.2	217.2	216.4	203.1	189.8	187.2	186.6
62.5°	1084.1	491.4	176.3	154.3	174.3	198.7	205.9	194.1	182.7	182.6	182.8
65°	1276.7	558.2	156.5	141.5	160.3	183.1	193.7	184.8	175.5	178.1	178.5
67.5°	1499.9	613.6	137.1	128.9	146.0	168.3	182.7	175.5	166.0	172.8	172.9
70°	1574.1	564.1	120.1	116.4	131.2	154.0	170.8	165.3	155.6	162.4	161.8
72°	1464.9	455.4	109.1	107.0	120.1	142.2	160.2	155.7	146.2	150.8	149.1
72.5°	1430.4	434.2	106.4	104.7	117.1	139.2	157.4	153.4	143.8	147.7	146.2
75°	1276.0	377.1	91.4	91.8	102.2	124.6	142.0	140.7	130.8	131.2	130.7
77.5°	925.5	276.5	77.0	79.6	87.0	109.5	126.4	125.6	114.9	112.9	112.5
80°	429.5	141.1	62.7	63.9	71.5	91.6	107.8	106.7	98.1	95.6	94.2
82.5°	147.1	67.1	47.2	47.9	55.4	73.7	93.5	92.9	85.7	80.8	77.8
85°	52.5	33.4	33.0	32.2	39.6	58.0	81.5	77.9	67.3	57.4	57.1
87.5°	17.0	14.3	17.0	16.9	23.1	39.3	59.2	50.4	48.9	40.6	39.8
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)