

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: P323045

Luminaire Tested: **GLEON-SA1C-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4266 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

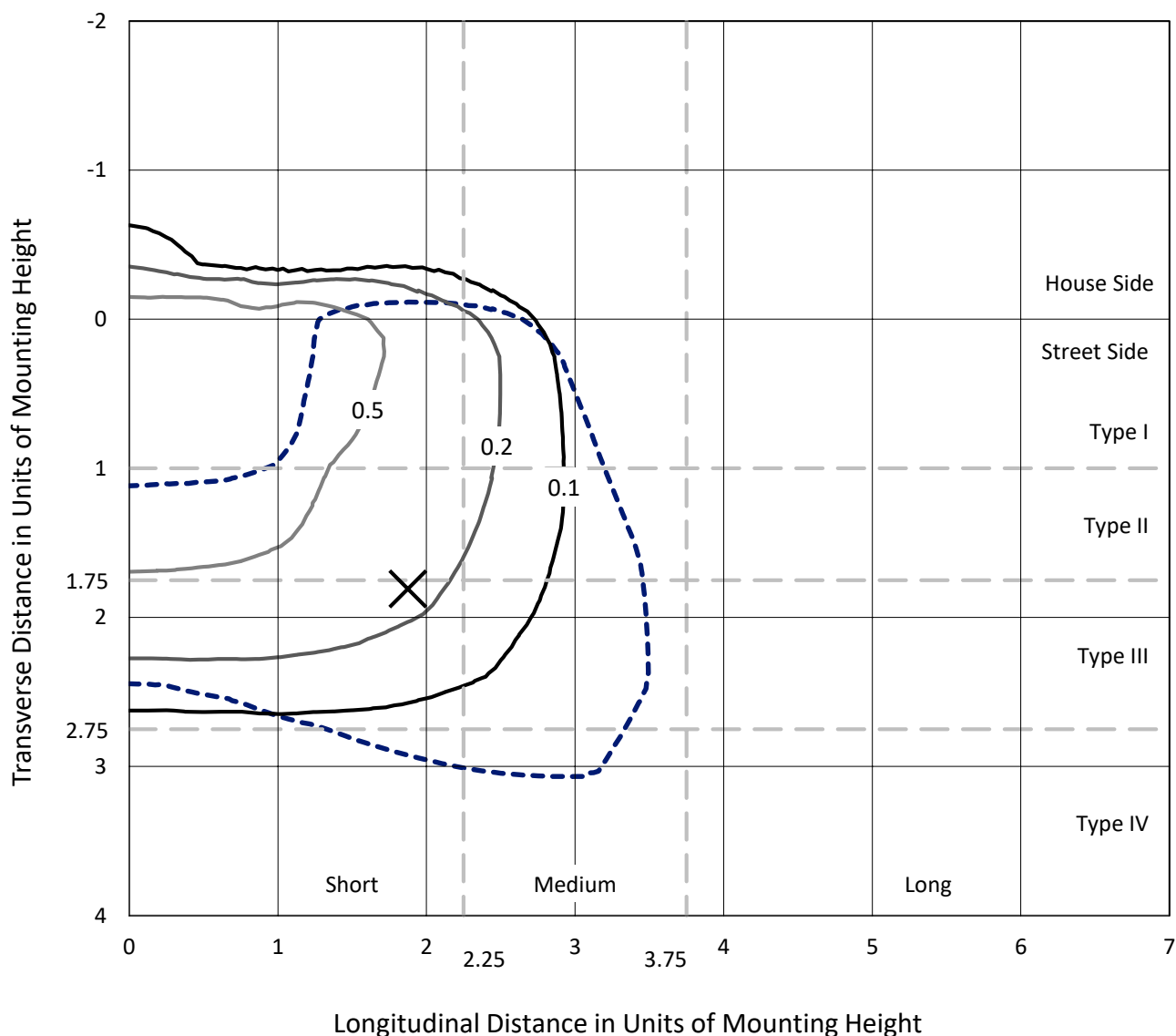
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

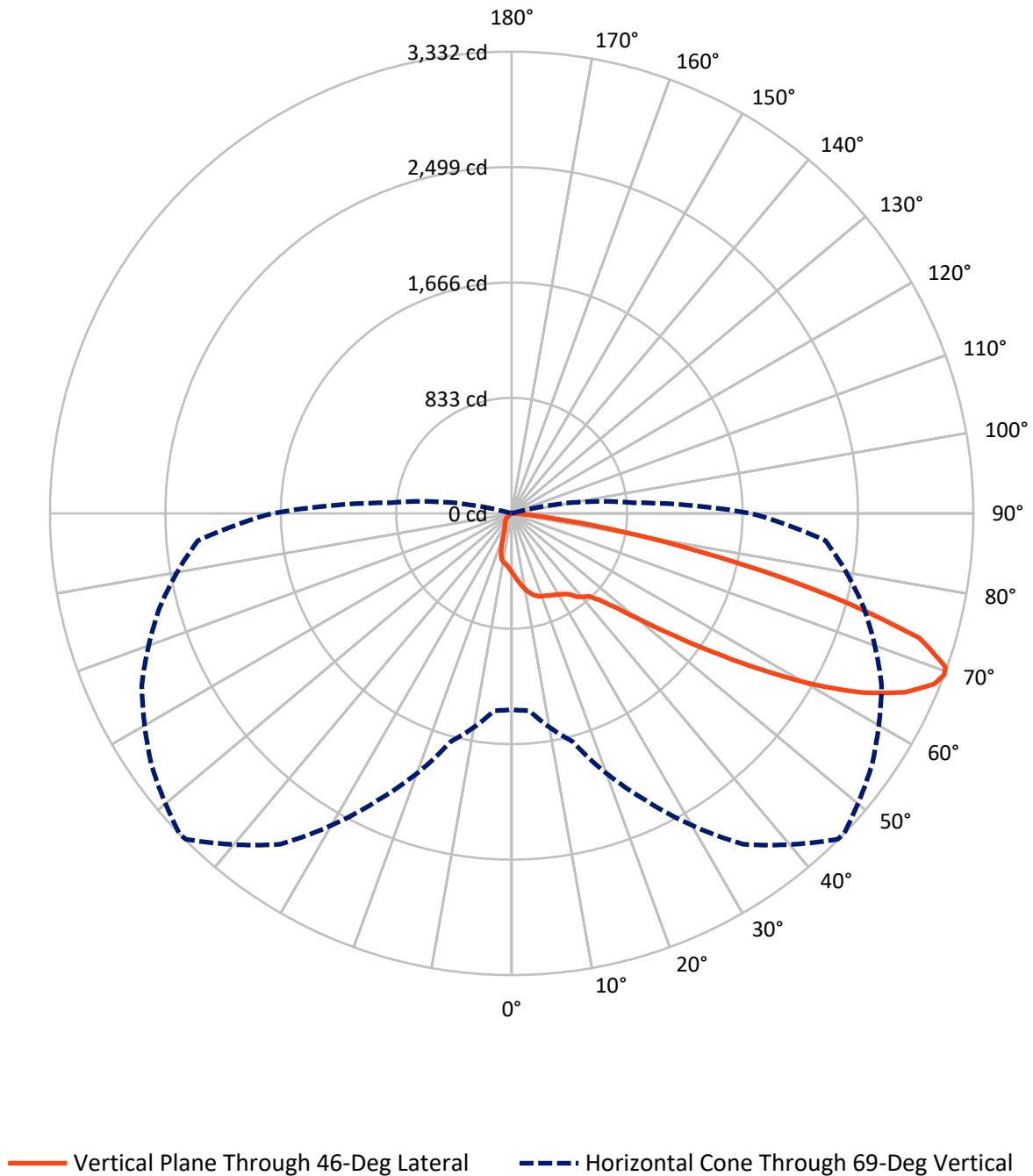
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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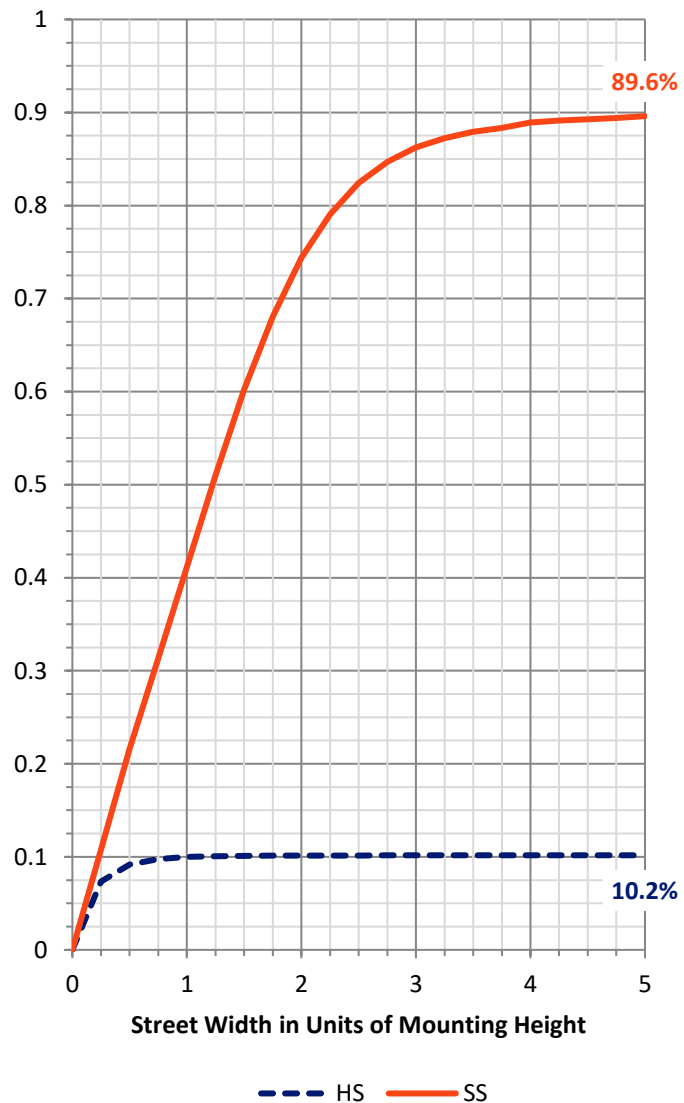
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.8	0.0	437.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3828.2	0.0	3828.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	4266.0	0.0	4266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	1.0
10°-20°	129.1	3.0
20°-30°	203.0	4.8
30°-40°	291.1	6.8
40°-50°	503.1	11.8
50°-60°	993.9	23.3
60°-70°	1389.1	32.6
70°-80°	671.1	15.7
80°-90°	43.1	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°	4266.0	100.0
0°-180°	4266.0	100.0

Coefficient of Utilization



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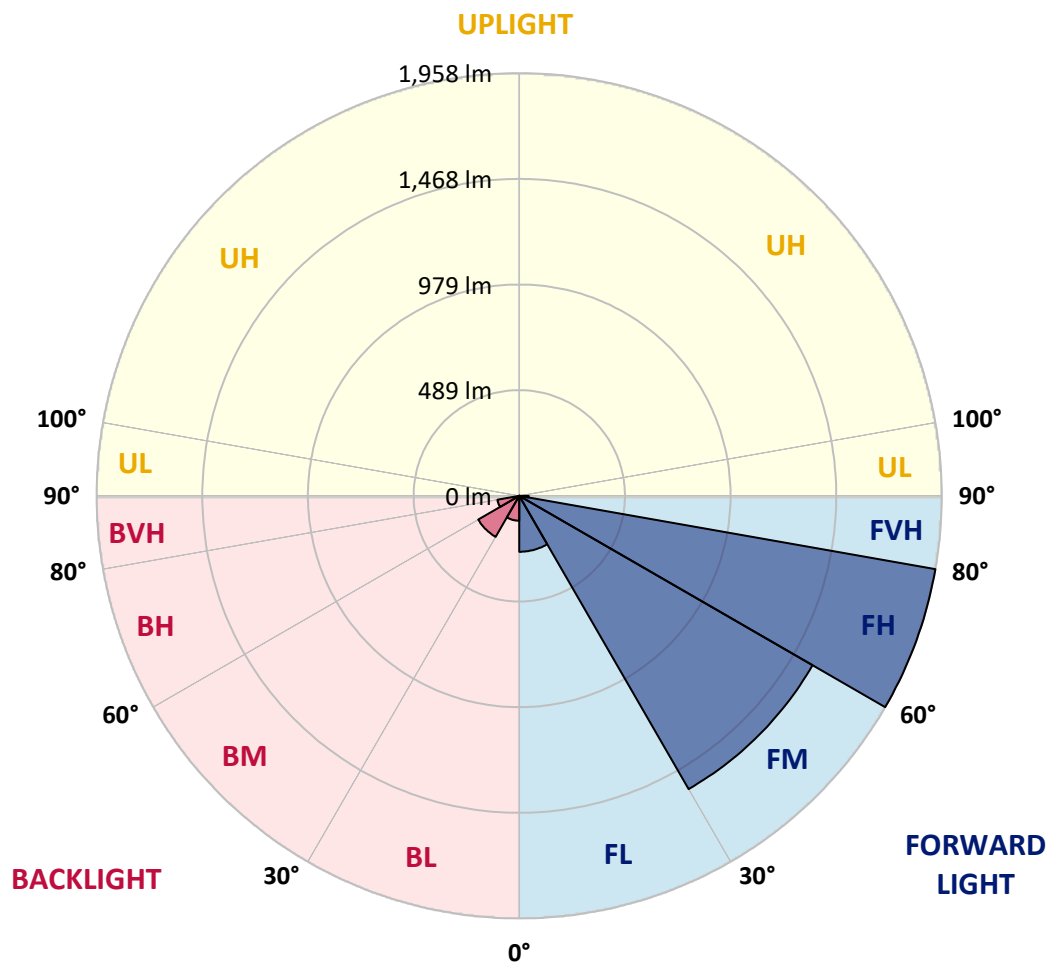
CATALOG NUMBER: GLEON-SA1C-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.2	6.1			
FM	(30°-60°)	1568.7	36.8			
FH	(60°-80°)	1957.5	45.9			G2/5000
FVH	(80°-90°)	42.8	1.0			G1/100
BL	(0°-30°)	115.4	2.7	B1/500		
BM	(30°-60°)	219.4	5.1	B0/220		
BH	(60°-80°)	102.7	2.4	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
2.5°	474.8	474.2	471.4	470.2	463.4	459.4	457.8	452.8	445.6	438.4	430.4
5°	528.8	528.6	523.4	518.4	505.6	493.6	491.4	479.8	463.6	448.4	433.2
7.5°	584.1	581.5	576.3	566.6	548.0	528.8	527.0	510.6	487.6	465.6	443.8
10°	630.9	629.3	622.5	607.9	586.1	564.2	562.0	541.8	515.8	488.8	461.0
12.5°	667.3	666.1	657.1	638.9	615.7	593.1	590.1	572.0	544.2	514.0	481.2
15°	689.5	688.9	677.9	658.5	635.7	616.1	613.5	597.7	571.8	540.2	503.2
17.5°	694.7	694.9	683.5	663.9	645.1	631.1	629.1	617.1	595.5	564.0	525.2
20°	683.1	685.5	675.3	658.3	646.7	639.3	637.7	630.5	612.3	582.7	542.8
22.5°	666.7	667.9	660.9	649.5	644.7	646.1	645.3	641.3	625.9	598.7	560.2
25°	656.7	656.7	652.5	642.9	646.1	654.7	654.9	654.1	641.9	618.3	581.5
27.5°	656.3	655.1	650.3	643.1	651.9	665.1	665.9	671.3	663.7	642.1	607.9
30°	672.3	670.9	660.7	651.3	662.5	676.7	678.7	690.5	686.7	667.9	637.3
32.5°	709.7	704.7	682.1	666.7	675.1	692.1	694.7	713.5	719.5	699.7	665.7
35°	760.9	745.1	712.5	695.9	696.7	714.5	716.9	744.5	762.3	728.9	687.7
37.5°	831.5	823.7	770.7	726.3	729.9	756.9	763.9	793.9	788.9	744.9	712.7
40°	986.3	974.1	917.7	811.5	761.7	791.3	793.5	809.5	809.9	781.1	764.7
42.5°	1197.1	1192.1	1132.7	966.1	824.3	814.3	818.3	845.3	875.5	857.5	856.7
45°	1430.5	1427.9	1364.9	1171.3	950.9	889.7	894.7	930.9	988.7	992.7	1018.1
47.5°	1618.3	1617.1	1580.9	1400.3	1144.7	1017.5	1019.1	1057.5	1159.1	1209.3	1249.9
50°	1789.6	1795.4	1766.8	1648.1	1408.7	1217.7	1213.9	1239.5	1402.7	1484.9	1535.3
52.5°	2027.6	2035.8	1955.6	1879.4	1685.7	1466.1	1463.1	1489.9	1695.5	1757.2	1766.2
55°	2237.8	2223.8	2160.4	2138.4	2023.6	1773.0	1772.2	1795.8	1978.8	2005.0	2021.6
57.5°	2330.6	2325.2	2355.8	2406.2	2377.4	2135.6	2133.8	2115.8	2232.2	2235.0	2286.0
60°	2389.2	2395.8	2489.6	2645.0	2716.8	2525.8	2514.2	2404.4	2474.2	2468.0	2522.6
62.5°	2345.2	2358.2	2527.0	2786.0	2970.9	2866.4	2850.0	2668.8	2681.0	2659.6	2710.4
65°	2111.6	2131.8	2408.4	2759.4	3096.9	3132.7	3116.1	2902.3	2845.2	2810.0	2781.8
67.5°	1714.5	1726.6	2015.4	2528.0	3040.1	3291.5	3288.1	3106.9	2969.3	2784.6	2565.8
69°	1416.9	1428.7	1706.7	2284.4	2915.1	3325.5	3332.1	3172.5	2945.7	2630.2	2273.4
70°	1200.1	1212.7	1471.7	2075.6	2770.0	3309.7	3321.5	3166.3	2878.1	2451.4	2016.8
72.5°	629.5	640.3	906.1	1429.9	2258.2	3039.1	3074.9	2898.7	2439.6	1780.4	1192.5
75°	197.8	204.0	353.8	747.5	1546.1	2363.0	2371.2	2273.8	1732.4	979.3	496.6
77.5°	75.4	73.6	117.8	275.4	781.7	1487.9	1538.1	1420.9	909.1	346.2	114.6
80°	40.6	40.8	61.2	114.0	334.4	764.7	807.1	688.7	323.0	108.0	26.4
82.5°	17.6	18.4	34.4	60.4	153.6	282.0	303.2	252.4	123.4	72.6	9.8
85°	3.8	4.2	16.6	32.8	62.6	79.2	83.0	81.8	78.6	56.4	3.8
87.5°	0.0	0.0	7.4	11.8	15.8	18.0	15.8	20.6	43.4	38.0	2.0
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: GLEON-SA1C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
2.5°	427.8	424.2	418.0	411.2	406.4	401.4	397.4	395.6	393.6	392.2	394.0
5°	427.0	420.0	408.0	396.4	388.0	381.2	375.6	373.4	371.2	369.6	369.4
7.5°	434.0	424.2	405.8	388.8	375.8	366.6	359.0	355.8	353.2	352.0	351.0
10°	447.4	434.8	410.2	388.0	371.2	355.6	339.2	326.6	318.4	314.6	313.2
12.5°	464.8	449.0	418.6	392.2	367.8	337.8	303.0	273.0	253.6	247.2	243.4
15°	485.2	465.6	429.6	397.6	355.4	300.6	241.6	202.4	184.4	180.8	176.8
17.5°	504.8	483.2	442.8	398.6	328.2	240.2	177.0	150.4	143.4	145.8	146.4
20°	522.0	500.6	455.8	389.8	278.8	180.2	137.0	130.4	133.0	137.6	138.4
22.5°	539.4	517.4	467.8	366.6	215.6	136.8	123.4	125.0	127.6	132.2	133.0
25°	560.6	537.8	479.0	324.0	161.8	116.4	117.2	119.6	122.2	126.4	126.8
27.5°	585.1	563.6	486.4	268.6	120.0	107.0	109.6	113.2	115.8	119.8	120.6
30°	617.5	597.7	488.8	211.2	100.6	98.6	99.8	104.2	108.0	111.6	112.2
32.5°	647.9	631.3	480.8	159.4	93.2	90.8	90.8	93.4	97.8	101.2	102.0
35°	675.9	665.1	455.2	116.6	87.6	83.6	81.6	81.6	84.4	87.2	88.0
37.5°	712.9	712.5	413.8	93.0	82.2	77.6	73.4	70.2	69.2	69.8	70.2
40°	776.3	776.9	359.8	83.4	77.6	71.4	65.0	59.2	53.8	52.0	51.8
42.5°	875.3	866.3	303.2	78.8	73.6	65.0	55.4	47.6	39.2	36.6	36.4
45°	1032.5	979.1	243.2	74.6	69.4	57.8	45.8	35.2	28.4	26.4	26.4
47.5°	1261.5	1127.3	188.4	70.0	63.8	49.6	34.6	25.4	20.8	19.8	20.0
50°	1498.3	1272.5	144.4	64.2	57.0	41.0	25.6	18.4	15.8	15.8	16.0
52.5°	1708.3	1378.9	112.6	58.0	48.6	32.2	19.4	14.4	13.2	13.0	13.2
55°	1905.0	1447.5	86.2	50.8	38.6	24.0	14.8	11.8	11.0	10.6	10.4
57.5°	2094.6	1481.5	64.6	41.0	28.0	17.4	11.8	10.0	9.2	8.6	8.4
60°	2220.8	1453.9	44.4	30.2	19.4	12.6	9.8	8.6	7.6	7.0	6.8
62.5°	2292.0	1378.5	28.6	21.8	13.8	9.4	7.8	7.2	5.8	5.2	5.2
65°	2263.2	1254.1	20.0	15.6	10.0	7.0	5.8	5.8	4.2	3.4	3.2
67.5°	2005.6	1059.5	15.2	11.6	7.2	5.2	4.4	5.0	2.6	1.6	1.6
69°	1725.6	878.1	13.0	9.6	6.0	4.2	3.8	4.6	1.8	1.2	1.0
70°	1499.7	757.5	11.8	8.4	5.0	3.6	3.4	4.4	1.8	1.0	0.8
72.5°	897.3	422.4	9.0	6.0	3.2	2.8	2.8	5.0	1.8	1.0	0.8
75°	362.6	148.8	6.6	4.2	2.4	2.4	3.4	6.4	1.6	0.8	0.6
77.5°	82.2	32.6	3.8	2.6	1.6	2.4	4.0	5.0	1.0	0.4	0.0
80°	20.0	8.0	2.4	1.6	1.0	1.8	3.0	2.8	0.2	0.0	0.0
82.5°	6.6	2.8	1.0	0.8	0.2	0.6	1.4	0.8	0.0	0.0	0.0
85°	2.8	1.6	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	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

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
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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 $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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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TM-30-18

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)