

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: P323985

Luminaire Tested: **GLEON-SA1A-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3147 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

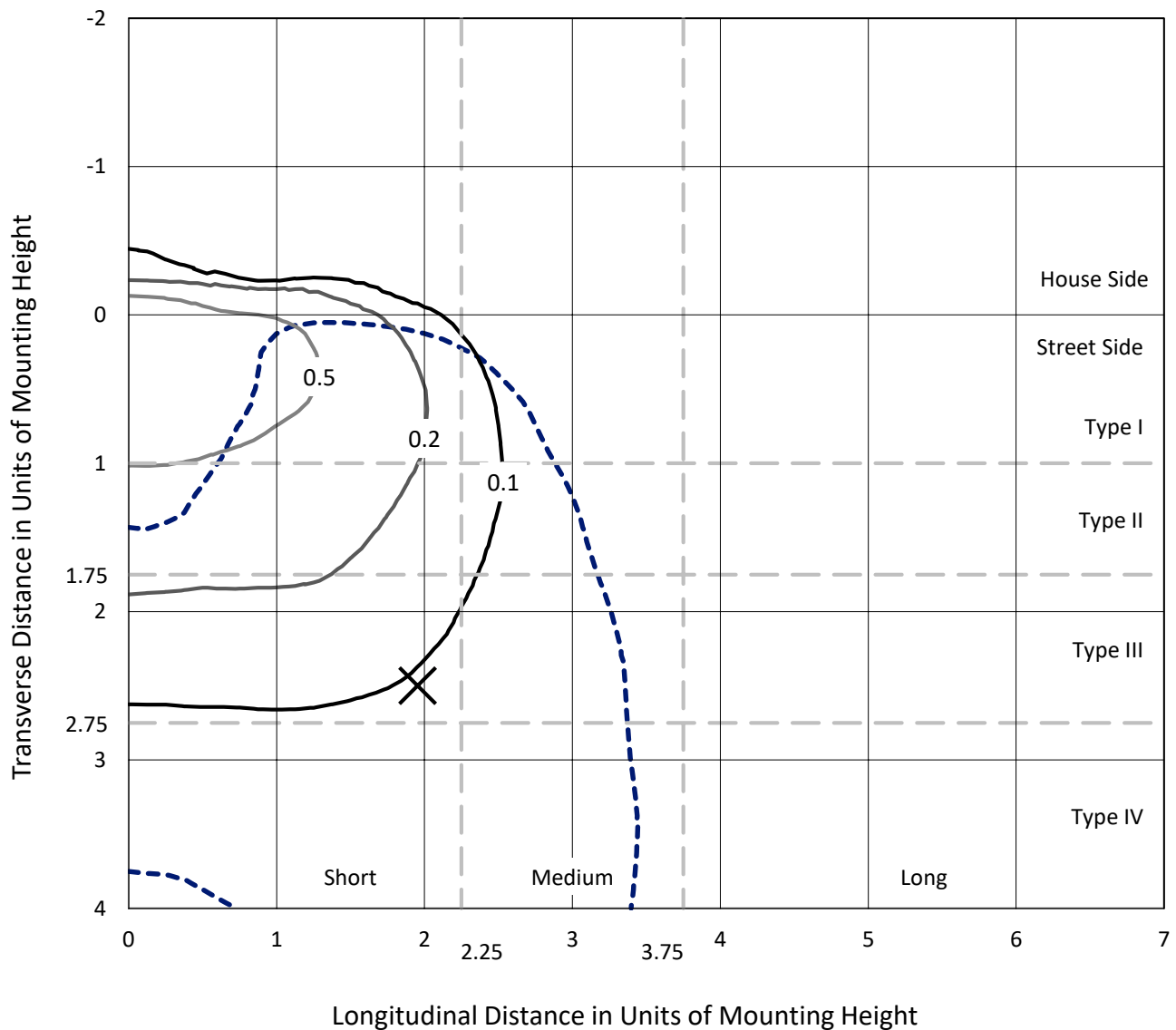
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

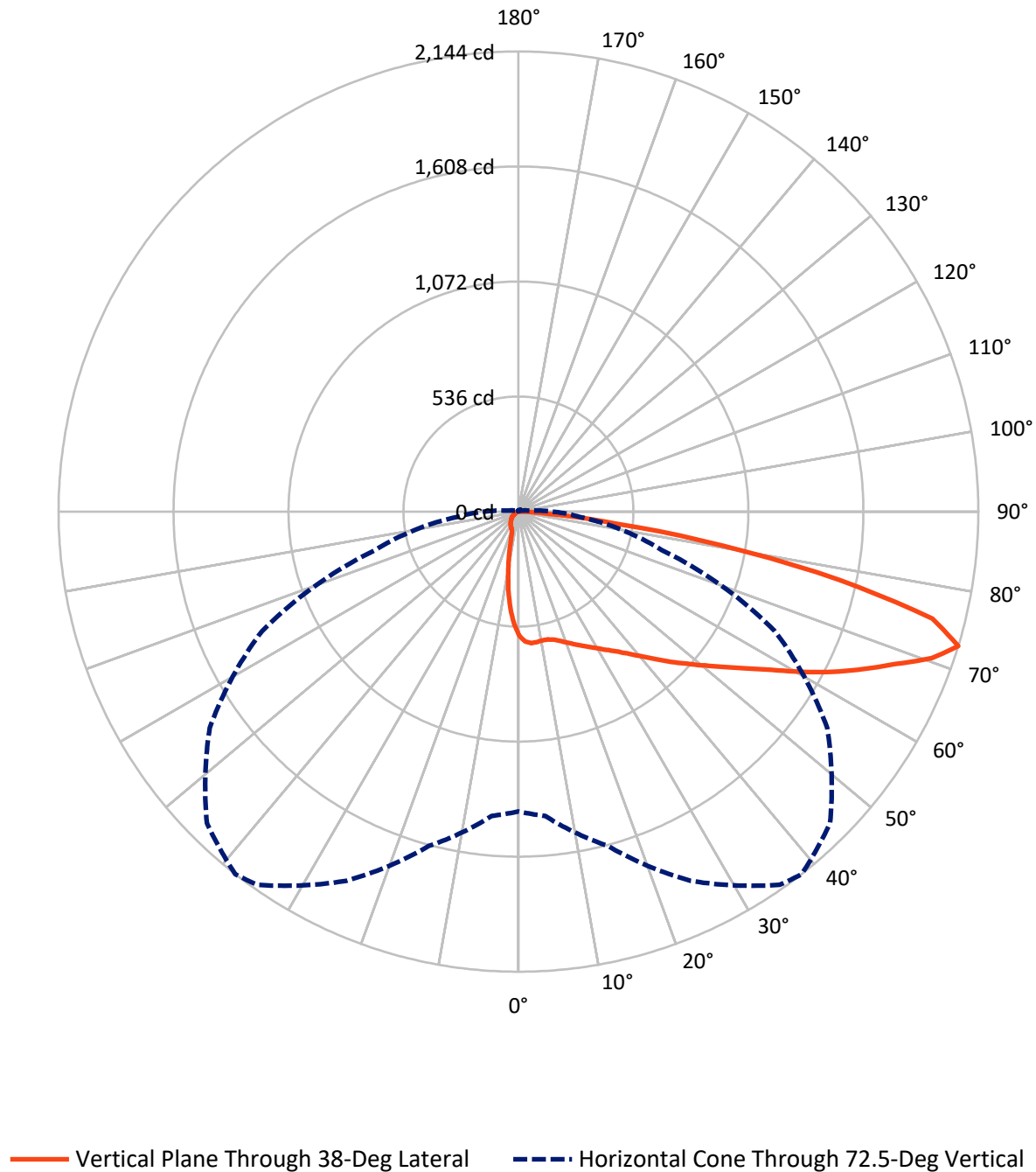
× Max cd
 --- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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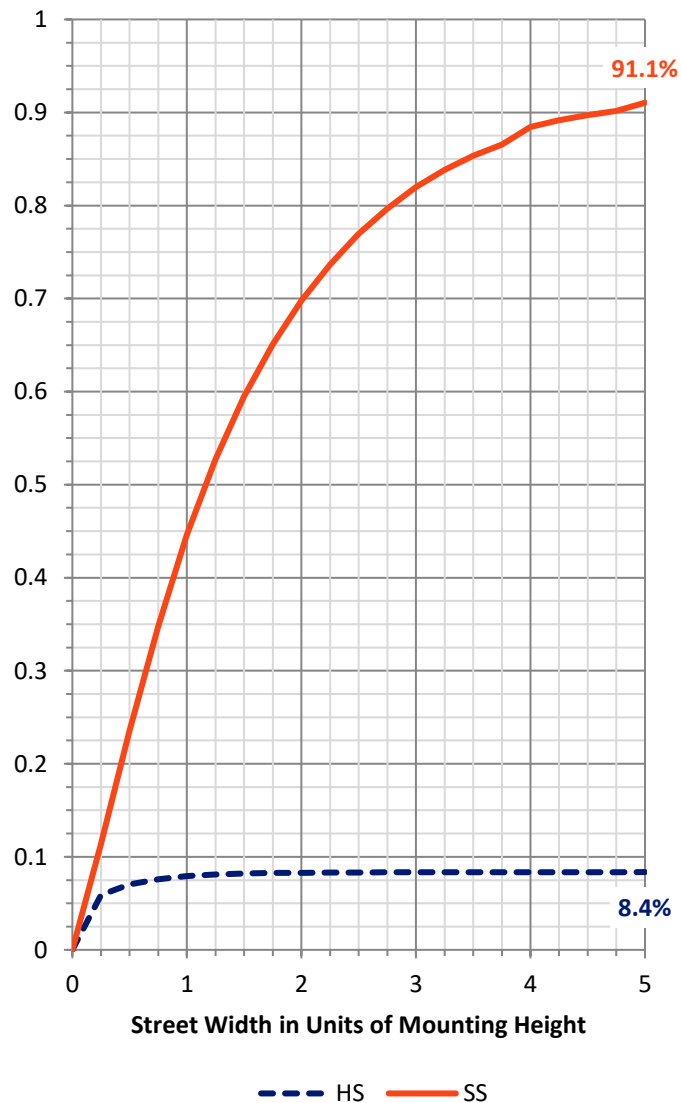
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.8	0.0	264.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2882.2	0.0	2882.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	3147.0	0.0	3147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.6
10°-20°	120.6	3.8
20°-30°	191.8	6.1
30°-40°	288.4	9.2
40°-50°	439.9	14.0
50°-60°	621.7	19.8
60°-70°	779.9	24.8
70°-80°	583.1	18.5
80°-90°	72.3	2.3
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°	3147.0	100.0
0°-180°	3147.0	100.0

Coefficient of Utilization



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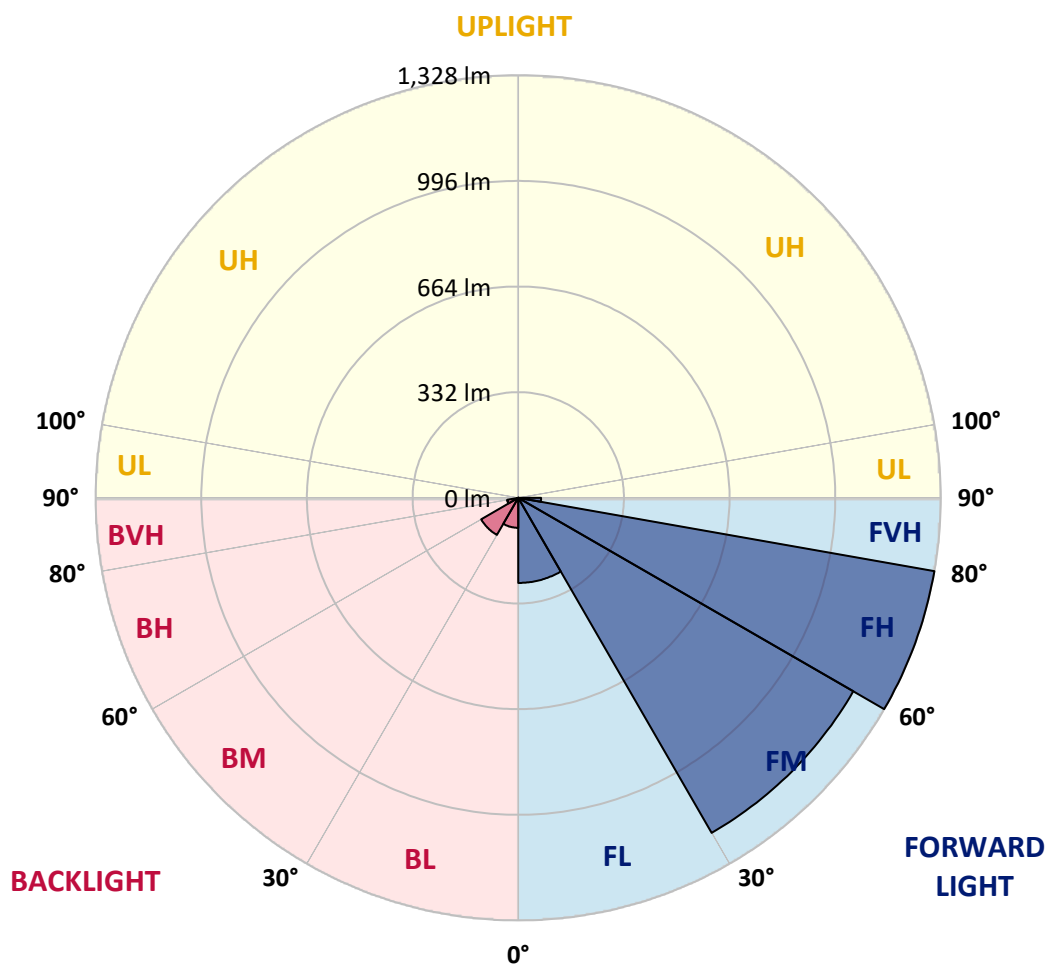
CATALOG NUMBER: GLEON-SA1A-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.4	8.5			
FM	(30°-60°)	1215.5	38.6			
FH	(60°-80°)	1327.6	42.2			G1/1800
FVH	(80°-90°)	71.6	2.3			G1/100
BL	(0°-30°)	94.3	3.0	B0/110		
BM	(30°-60°)	134.5	4.3	B0/220		
BH	(60°-80°)	35.4	1.1	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P323985

CATALOG NUMBER: GLEON-SA1A-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	614.3	614.4	613.0	610.6	607.6	606.0	603.4	599.2	594.8	586.8	578.2
5°	626.8	626.8	625.0	621.9	617.0	615.6	610.6	603.9	594.8	581.9	567.4
7.5°	625.5	625.8	623.3	620.0	615.2	613.9	607.9	600.4	589.0	573.4	554.8
10°	618.7	619.4	617.4	615.8	611.4	610.0	604.3	596.9	585.5	568.8	547.5
12.5°	611.8	612.4	613.1	614.5	611.8	611.3	606.8	600.5	589.7	572.3	548.3
15°	607.3	608.7	613.4	619.0	619.6	619.1	616.2	610.4	599.4	581.3	553.9
17.5°	607.3	609.4	619.2	630.0	633.7	634.1	631.7	623.4	610.4	591.0	559.1
20°	612.4	615.3	630.6	645.8	652.0	652.0	647.2	635.7	620.4	599.8	562.6
22.5°	625.5	629.3	648.5	666.0	672.7	671.3	664.7	648.0	630.9	609.7	567.1
25°	651.3	654.1	674.1	691.8	695.8	692.6	684.3	662.9	644.2	623.2	575.2
27.5°	684.5	684.8	705.5	720.4	717.9	715.7	705.4	681.6	663.4	642.4	589.2
30°	720.9	720.9	739.1	750.5	742.9	741.0	730.7	704.2	688.0	668.5	609.0
32.5°	756.2	757.8	772.5	779.7	771.2	769.4	759.3	732.8	720.7	708.4	640.0
35°	790.3	791.5	805.5	809.4	801.3	801.8	794.6	772.2	767.6	766.0	686.7
37.5°	823.4	823.6	837.9	840.4	836.3	840.8	841.4	821.6	830.1	842.7	752.4
40°	853.6	853.8	868.0	874.4	881.3	887.0	892.1	881.5	909.6	939.1	830.7
42.5°	877.8	880.5	898.4	910.6	928.9	939.8	953.7	953.2	1004.4	1048.6	925.3
45°	899.1	903.8	928.7	950.0	981.4	998.9	1020.6	1037.6	1111.0	1170.5	1021.1
47.5°	927.2	931.6	960.1	995.0	1036.8	1059.8	1095.8	1132.5	1228.3	1290.2	1114.7
50°	966.8	964.8	992.9	1043.0	1096.7	1126.9	1178.1	1233.1	1344.6	1394.5	1169.7
52.5°	1009.0	1008.2	1029.0	1095.1	1167.2	1202.5	1270.2	1337.2	1455.8	1466.4	1195.0
55°	1061.3	1055.6	1073.1	1154.6	1251.0	1288.9	1368.7	1440.1	1544.4	1506.9	1207.6
57.5°	1116.0	1106.7	1123.5	1220.8	1345.5	1390.3	1477.7	1540.5	1603.4	1534.6	1207.5
60°	1172.6	1161.6	1181.5	1303.7	1462.9	1514.8	1595.8	1608.3	1658.4	1548.6	1198.6
62.5°	1219.9	1213.4	1242.9	1392.3	1594.0	1644.9	1685.1	1670.0	1704.8	1559.5	1177.8
65°	1270.0	1270.4	1318.1	1495.7	1733.3	1767.7	1771.1	1750.0	1743.6	1557.2	1107.5
67.5°	1337.7	1343.9	1423.5	1636.1	1868.8	1895.4	1895.1	1836.7	1772.0	1468.9	951.6
70°	1409.3	1424.1	1545.1	1796.7	2016.8	2043.7	2029.8	1891.8	1668.5	1187.8	673.5
72.5°	1397.3	1422.9	1612.7	1898.0	2123.0	2143.5	2053.5	1756.3	1318.7	690.3	286.7
75°	1078.0	1107.7	1478.7	1797.6	2011.5	1993.1	1764.4	1366.7	720.7	192.6	64.6
77.5°	569.4	585.3	976.8	1369.4	1568.5	1529.9	1242.9	758.2	219.7	47.7	29.0
80°	298.2	301.9	425.7	777.0	968.1	968.3	736.6	333.0	90.6	24.4	19.5
82.5°	159.7	162.8	224.9	359.0	507.2	459.8	282.0	183.2	52.7	13.9	18.7
85°	38.4	39.1	127.6	164.0	199.4	142.5	83.8	153.8	14.2	8.1	15.2
87.5°	14.8	15.0	47.3	71.0	50.8	32.9	39.2	57.4	1.8	3.1	2.4
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-SA1A-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	573.0	569.6	561.2	550.6	541.2	534.4	524.2	517.6	513.1	513.0	511.3
5°	558.5	551.5	533.5	512.1	492.6	475.1	454.4	438.1	425.9	424.0	419.8
7.5°	542.9	531.5	503.8	470.4	437.7	404.5	365.9	342.0	321.5	311.7	310.7
10°	533.4	517.4	478.1	429.7	378.5	324.5	274.1	239.2	213.9	206.8	201.4
12.5°	531.4	510.4	458.2	391.6	318.4	247.0	191.2	154.1	134.0	127.6	125.9
15°	533.4	507.1	441.5	353.8	257.5	175.3	128.3	106.8	99.2	97.4	97.2
17.5°	534.5	503.2	422.5	311.8	198.4	125.2	98.3	92.0	90.8	90.7	91.0
20°	534.4	497.2	399.9	265.1	147.6	98.4	88.9	87.6	87.3	87.4	87.3
22.5°	533.5	490.1	375.1	216.8	111.5	88.0	84.8	84.0	83.9	83.9	83.9
25°	535.2	484.5	347.8	170.7	91.9	83.1	81.2	80.5	80.4	80.4	80.1
27.5°	541.3	481.4	317.9	131.3	83.0	78.8	77.2	77.1	76.7	76.6	76.8
30°	551.3	481.4	285.0	102.2	77.6	74.4	73.2	72.9	72.8	72.7	72.8
32.5°	568.8	485.0	249.2	85.0	72.5	69.4	68.6	69.0	68.6	68.6	68.6
35°	600.4	496.0	211.7	74.1	67.2	64.6	63.8	64.3	64.0	64.0	63.9
37.5°	646.6	516.4	174.0	67.6	62.5	59.7	58.7	59.5	59.2	59.2	59.1
40°	702.8	546.0	138.0	62.6	57.9	55.0	54.1	54.5	53.8	53.8	54.1
42.5°	772.2	583.7	106.6	57.8	53.3	50.6	50.1	49.7	48.5	47.8	48.0
45°	849.3	622.9	83.1	53.1	49.0	46.8	46.0	45.0	43.0	41.7	41.8
47.5°	918.1	653.1	67.6	48.5	45.1	43.4	42.2	40.3	37.4	35.8	35.9
50°	954.3	657.7	57.5	43.9	41.4	39.7	38.0	35.0	31.6	29.9	29.8
52.5°	963.6	636.2	50.1	39.7	37.8	35.8	33.6	29.5	25.7	23.9	23.7
55°	967.0	603.6	43.4	35.8	33.9	31.6	28.8	24.2	20.7	18.8	18.7
57.5°	955.8	554.8	38.2	32.3	29.9	27.2	23.7	19.3	15.9	14.5	14.5
60°	930.8	488.8	34.1	28.5	25.9	22.7	19.1	15.0	11.9	10.7	10.7
62.5°	881.0	403.3	30.3	24.6	22.1	18.8	15.4	11.4	8.4	7.7	7.8
65°	787.1	306.0	26.5	21.0	18.8	15.6	12.0	8.1	5.6	5.6	5.9
67.5°	641.8	212.5	22.6	17.9	16.2	12.7	9.1	5.6	3.9	4.4	5.0
70°	424.9	119.2	19.3	14.8	13.9	10.1	6.8	3.8	3.1	4.2	5.1
72.5°	160.4	46.4	16.2	11.9	12.0	7.7	4.8	2.9	2.9	4.6	6.0
75°	44.7	22.7	11.6	8.8	9.4	5.6	3.5	2.5	2.7	5.2	7.1
77.5°	26.3	16.7	7.6	5.1	6.4	3.9	2.4	2.0	2.4	4.4	6.8
80°	21.2	8.9	4.4	2.6	3.5	2.2	1.6	1.2	0.7	1.7	3.5
82.5°	21.2	5.4	2.1	1.8	1.8	1.2	0.8	0.5	0.1	0.0	0.9
85°	14.2	2.2	1.3	1.2	0.9	0.4	0.3	0.1	0.0	0.0	0.0
87.5°	2.4	0.9	0.5	0.3	0.1	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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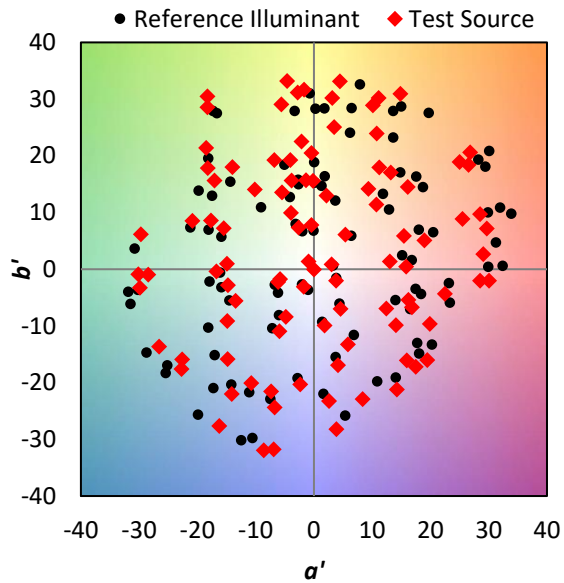
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics

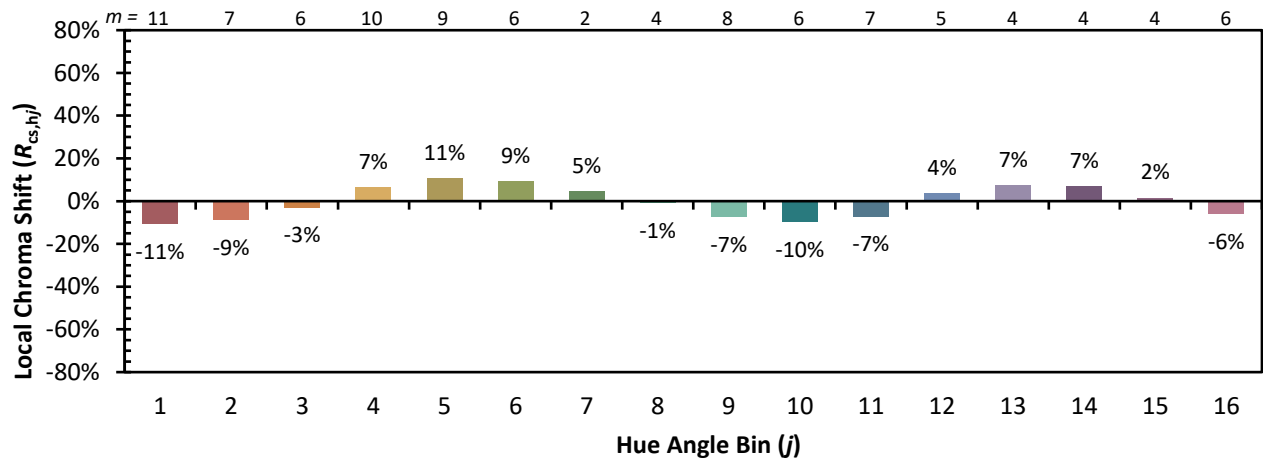


Individual Sample Fidelity Index ($R_{f,i}$)

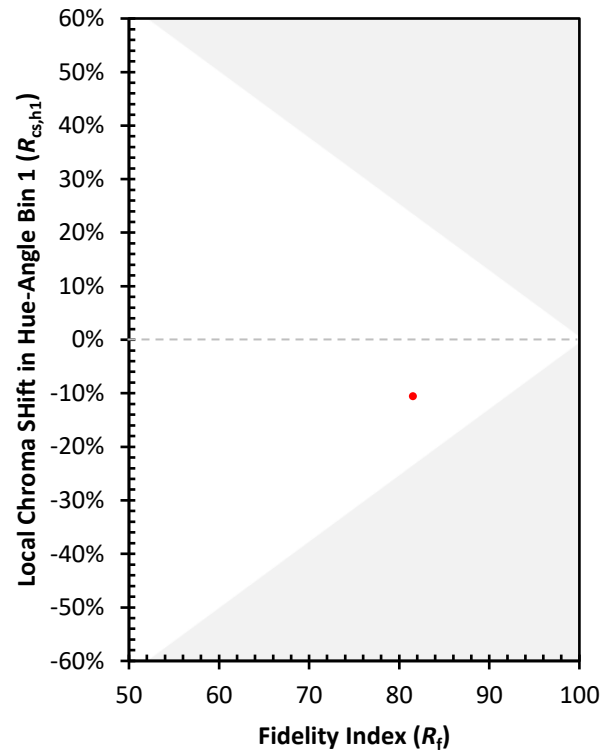
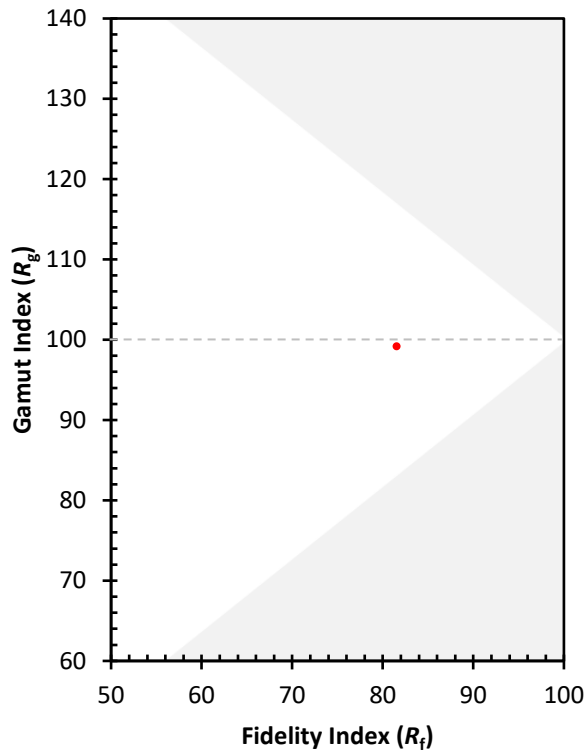
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)