

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: P322091

Luminaire Tested: **GLEON-SA7C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28282 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

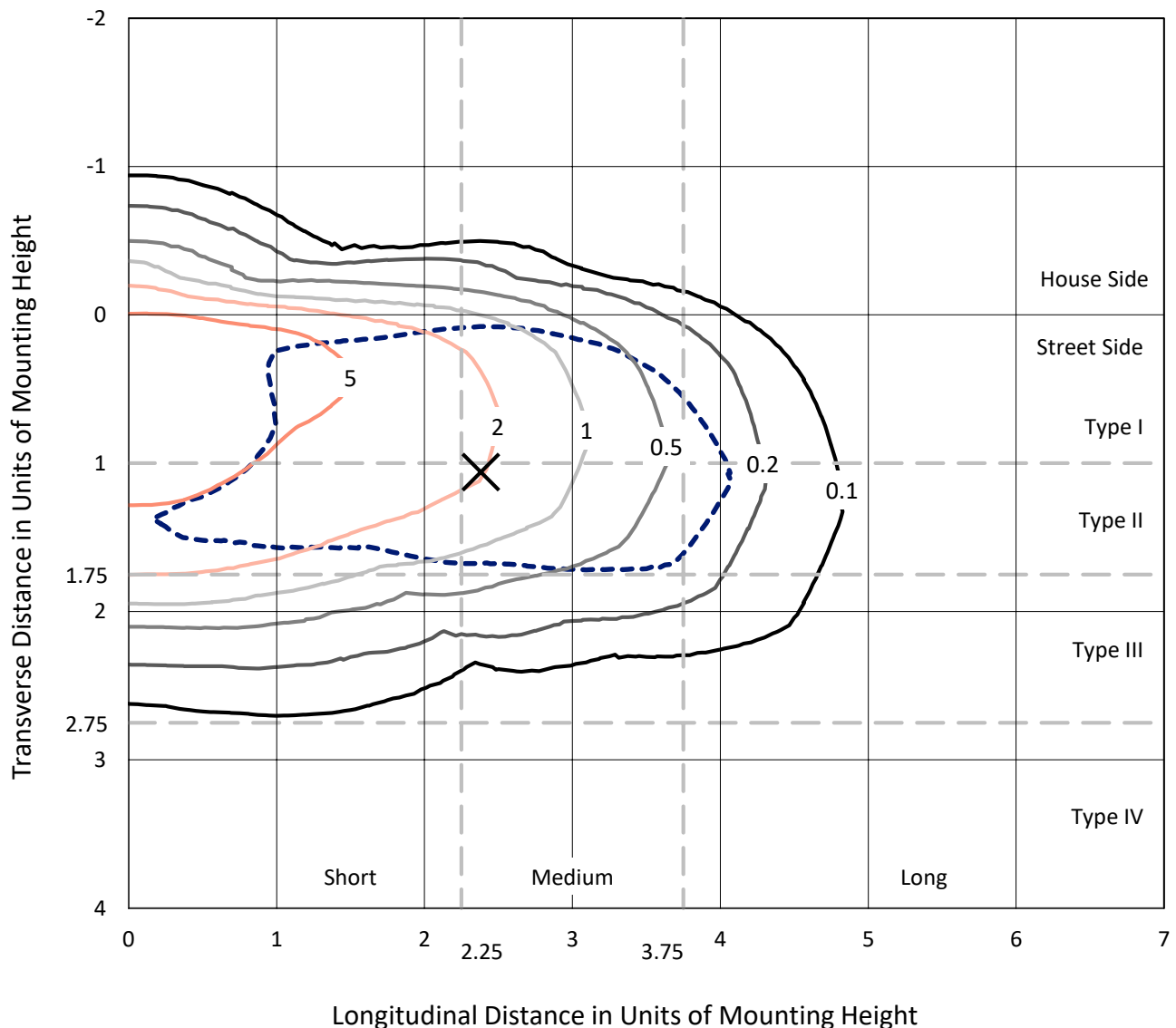
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322091
 CATALOG NUMBER: GLEON-SA7C-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

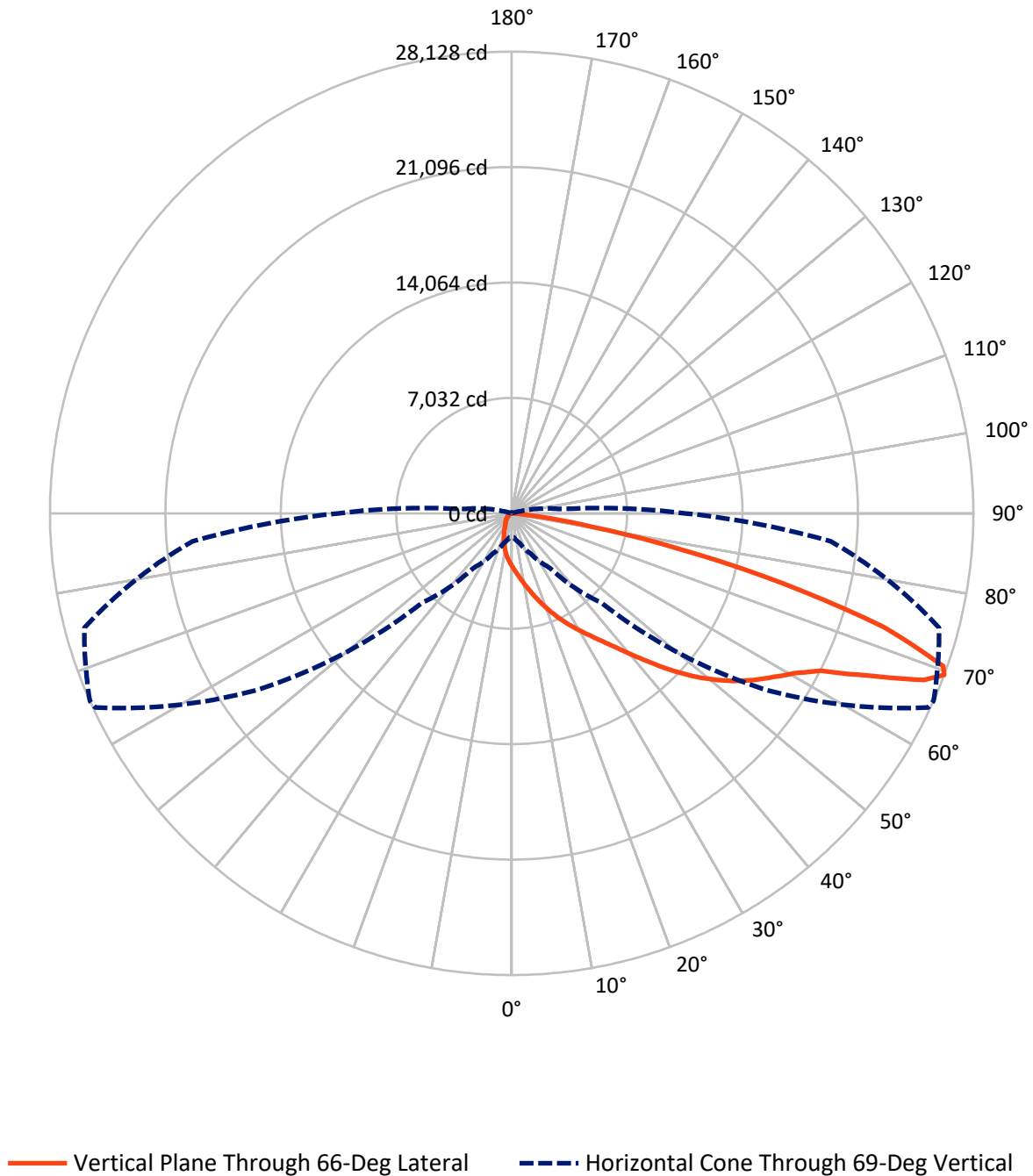
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P322091
CATALOG NUMBER: GLEON-SA7C-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322091

CATALOG NUMBER: GLEON-SA7C-830-U-T2-HSS

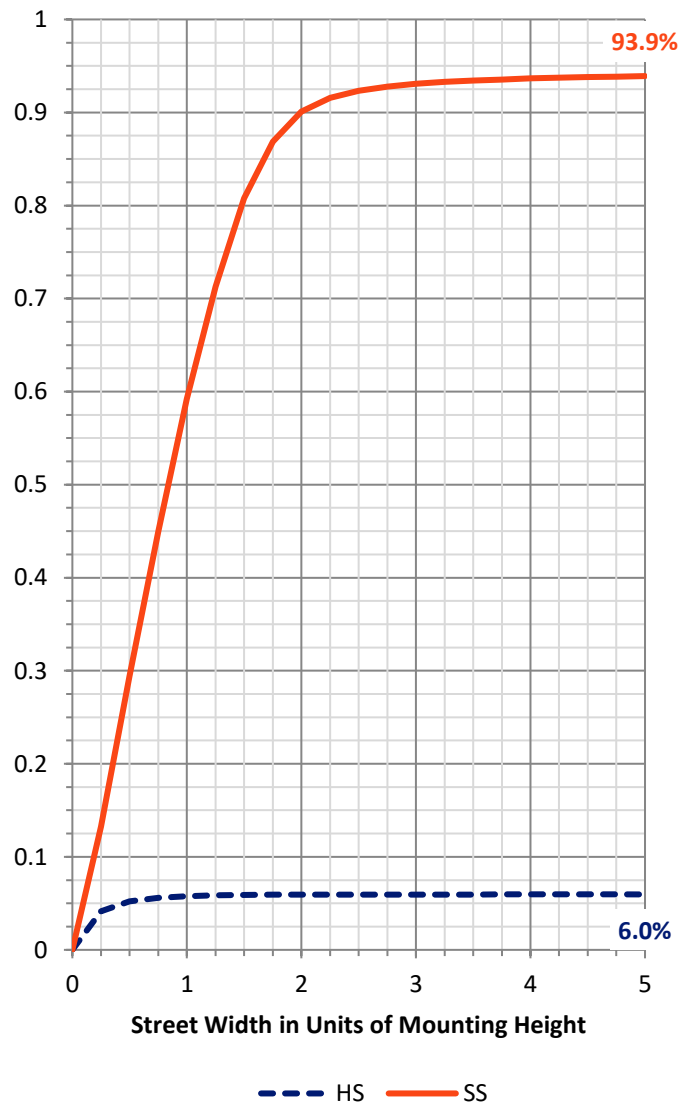
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1696.5	0.0	1696.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	26585.5	0.0	26585.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	28282.0	0.0	28282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.1	1.1
10°-20°	925.9	3.3
20°-30°	1612.4	5.7
30°-40°	2829.0	10.0
40°-50°	4735.3	16.7
50°-60°	6960.4	24.6
60°-70°	7146.6	25.3
70°-80°	3528.1	12.5
80°-90°	233.3	0.8
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°	28282.0	100.0
0°-180°	28282.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322091

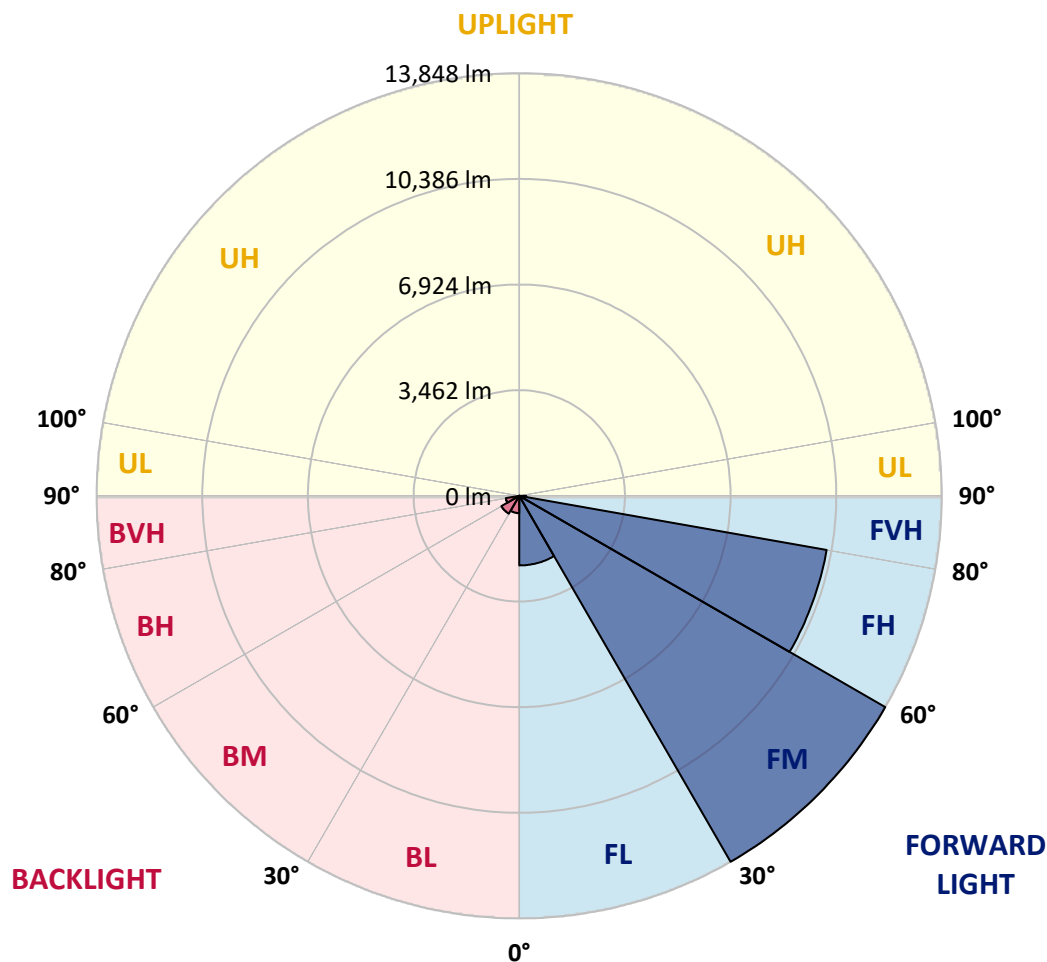
CATALOG NUMBER: GLEON-SA7C-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2282.1	8.1			
FM	(30°-60°)	13848.2	49.0			
FH	(60°-80°)	10227.5	36.2			G4/12000
FVH	(80°-90°)	227.6	0.8			G3/500
BL	(0°-30°)	567.4	2.0	B2/1000		
BM	(30°-60°)	676.4	2.4	B1/1000		
BH	(60°-80°)	447.1	1.6	B1/500		G1/500
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



REPORT NUMBER: P322091

CATALOG NUMBER: GLEON-SA7C-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6
2.5°	3788.1	3772.0	3765.3	3735.8	3684.7	3645.8	3570.5	3483.2	3467.1	3382.5	3279.0
5°	4279.8	4266.4	4257.0	4215.3	4162.9	4064.9	3927.9	3765.3	3734.4	3573.2	3366.3
7.5°	4622.3	4646.5	4646.5	4619.7	4553.8	4480.0	4312.0	4090.4	4051.4	3804.3	3483.2
10°	4822.5	4852.1	4874.9	4897.7	4888.3	4858.8	4700.3	4450.4	4403.4	4075.6	3618.9
12.5°	4841.3	4870.9	4935.3	5030.7	5123.4	5190.6	5091.2	4849.4	4795.6	4390.0	3780.1
15°	4736.5	4767.4	4866.8	5052.2	5276.5	5472.7	5504.9	5291.3	5236.2	4764.7	3981.6
17.5°	4553.8	4574.0	4716.4	4973.0	5324.9	5684.9	5879.7	5765.5	5714.5	5193.3	4205.9
20°	4418.2	4432.9	4557.9	4833.2	5295.3	5817.9	6234.3	6269.3	6215.5	5652.7	4449.1
22.5°	4650.6	4677.4	4681.5	4811.8	5214.7	5883.7	6546.0	6764.9	6724.6	6140.3	4688.2
25°	5285.9	5316.8	5214.7	5134.1	5283.3	5913.3	6813.3	7272.7	7240.5	6665.5	4928.6
27.5°	6125.5	6157.8	6026.1	5785.7	5641.9	6024.8	7051.1	7788.5	7787.2	7221.7	5187.9
30°	6950.3	6982.6	6848.2	6607.8	6277.3	6340.4	7256.6	8328.6	8336.6	7795.3	5463.3
32.5°	7815.4	7855.7	7717.3	7408.4	7063.1	6885.8	7545.4	8871.3	8916.9	8460.2	5773.6
35°	8798.7	8804.1	8609.3	8285.6	7887.9	7615.3	8008.8	9479.8	9588.6	9283.6	6167.2
37.5°	9763.2	9802.2	9642.3	9131.9	8766.5	8457.5	8698.0	10240.1	10394.6	10289.8	6681.6
40°	10477.9	10559.8	10537.0	9986.2	9639.6	9419.3	9553.7	11144.1	11340.3	11461.2	7330.5
42.5°	10926.5	10988.3	11093.1	10761.3	10447.0	10483.2	10563.8	12197.3	12439.1	12796.4	8076.0
45°	11441.0	11470.6	11557.9	11411.5	11199.2	11564.6	11635.8	13383.4	13637.3	14232.4	8903.5
47.5°	12069.7	12139.5	12163.7	12029.4	11932.7	12521.0	12668.8	14462.1	14818.1	15770.5	9779.3
50°	12870.3	12889.1	12930.7	12843.4	12746.7	13343.1	13595.7	15594.5	15918.3	17314.0	10643.1
52.5°	13653.5	13720.6	13865.7	13810.6	13771.7	14043.0	14421.8	16615.5	16976.8	18600.9	11505.5
55°	13879.1	13936.9	14437.9	14780.5	15097.5	14905.4	15211.7	17530.3	17921.2	19750.8	12335.7
57.5°	12977.8	13094.6	13962.4	14854.4	16169.5	16246.0	16297.1	18469.2	18819.8	20632.0	13199.4
60°	10699.5	10722.3	12146.3	13676.3	15992.2	17416.1	17882.2	19478.1	19772.3	21452.7	14233.8
62.5°	6805.2	7037.6	8599.9	10760.0	14116.9	17246.8	19799.1	21004.1	21111.5	22437.4	15716.8
65°	3241.4	3391.9	4517.6	6648.1	10225.3	15080.1	21122.3	23764.6	23812.9	24389.2	17698.2
67.5°	1794.7	1867.2	2403.2	3578.6	5977.8	10664.6	20587.6	27034.2	27079.9	26382.7	19436.4
69°	1403.8	1465.6	1887.4	2697.4	4052.8	7665.0	18630.4	27992.0	28127.7	26953.6	19498.2
70°	1191.5	1252.0	1625.4	2278.3	3258.9	5922.7	16583.2	27754.2	27898.0	26899.9	19037.5
72.5°	729.4	764.3	1082.7	1603.9	2184.2	2979.5	10226.7	23471.7	23714.9	24675.4	16361.6
75°	491.7	510.5	677.0	1106.9	1562.3	1534.1	5312.8	16544.3	17070.8	19194.6	12084.5
77.5°	351.9	369.4	454.0	716.0	1094.8	1012.9	2405.9	10281.7	10394.6	11512.2	6590.3
80°	200.2	216.3	321.1	425.8	742.9	675.7	956.4	4911.2	4967.6	4936.7	2200.3
82.5°	104.8	118.2	176.0	280.8	476.9	442.0	397.6	1644.2	1652.3	1374.2	482.3
85°	20.1	24.2	87.3	192.1	245.8	192.1	162.5	385.5	393.6	347.9	119.6
87.5°	0.0	1.3	34.9	43.0	48.4	49.7	52.4	75.2	80.6	108.8	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322091

CATALOG NUMBER: GLEON-SA7C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6	3218.6
2.5°	3233.4	3185.0	3092.3	2984.8	2901.6	2819.6	2755.1	2688.0	2663.8	2651.7	2650.4
5°	3265.6	3163.5	2967.4	2765.9	2600.7	2444.8	2333.3	2227.2	2177.5	2154.7	2145.3
7.5°	3319.3	3155.4	2839.8	2532.1	2294.4	2099.6	1945.1	1829.6	1771.8	1747.7	1738.2
10°	3382.5	3144.7	2690.7	2285.0	1981.4	1779.9	1626.8	1512.6	1449.4	1422.6	1409.1
12.5°	3456.3	3125.9	2518.7	2035.1	1714.1	1512.6	1327.2	1186.1	1113.6	1082.7	1067.9
15°	3547.7	3107.1	2338.7	1800.0	1479.0	1233.2	1030.3	934.9	920.2	914.8	916.1
17.5°	3637.7	3077.5	2142.6	1567.6	1231.8	963.2	859.7	854.3	857.0	857.0	857.0
20°	3718.3	3010.4	1929.0	1368.8	996.7	812.7	791.2	781.8	775.1	769.7	763.0
22.5°	3781.4	2920.4	1723.5	1171.4	814.0	744.2	710.6	681.1	656.9	640.8	632.7
25°	3824.4	2800.8	1535.4	982.0	732.1	677.0	616.6	566.9	529.3	506.4	497.0
27.5°	3856.7	2671.9	1367.5	822.1	675.7	599.1	519.9	460.8	421.8	401.7	393.6
30°	3879.5	2525.4	1219.7	722.7	612.6	517.2	432.5	374.8	346.6	335.8	330.5
32.5°	3901.0	2362.9	1080.0	675.7	553.4	442.0	362.7	318.4	300.9	287.5	283.4
35°	3954.7	2212.4	947.0	626.0	493.0	377.5	311.6	279.4	261.9	253.9	251.2
37.5°	4082.3	2100.9	819.4	574.9	432.5	326.4	272.7	249.9	233.7	225.7	223.0
40°	4287.9	2044.5	712.0	519.9	373.4	287.5	247.2	225.7	208.2	196.1	193.4
42.5°	4590.1	2052.6	636.7	464.8	326.4	256.6	223.0	197.5	178.7	167.9	165.2
45°	4956.8	2111.7	584.3	411.1	287.5	232.4	196.1	169.3	151.8	142.4	139.7
47.5°	5354.5	2207.1	541.4	362.7	256.6	209.6	169.3	141.0	126.3	118.2	116.9
50°	5773.6	2299.8	497.0	315.7	229.7	186.7	142.4	116.9	104.8	98.1	95.4
52.5°	6198.1	2407.2	456.7	272.7	206.9	159.9	118.2	95.4	86.0	80.6	77.9
55°	6654.8	2487.8	417.8	239.1	184.0	135.7	98.1	79.3	71.2	64.5	63.1
57.5°	7192.1	2612.7	377.5	206.9	157.2	112.8	80.6	63.1	56.4	49.7	48.4
60°	7917.5	2759.2	334.5	182.7	129.0	92.7	65.8	51.0	43.0	37.6	36.3
62.5°	8873.9	2921.7	280.8	159.9	104.8	75.2	52.4	40.3	30.9	24.2	24.2
65°	10087.0	3186.3	229.7	134.3	86.0	61.8	40.3	29.6	17.5	10.7	10.7
67.5°	10794.9	3232.0	185.4	110.2	69.9	52.4	33.6	20.1	5.4	1.3	0.0
69°	10567.9	2967.4	157.2	94.0	60.4	49.7	30.9	14.8	2.7	0.0	0.0
70°	10140.7	2713.5	138.4	83.3	55.1	47.0	29.6	10.7	2.7	0.0	0.0
72.5°	8379.6	1931.7	104.8	61.8	40.3	41.6	26.9	6.7	2.7	0.0	0.0
75°	6104.0	1174.1	75.2	43.0	25.5	30.9	18.8	2.7	1.3	0.0	0.0
77.5°	3395.9	553.4	47.0	24.2	16.1	18.8	9.4	0.0	0.0	0.0	0.0
80°	1102.9	150.5	21.5	13.4	9.4	10.7	4.0	0.0	0.0	0.0	0.0
82.5°	204.2	43.0	12.1	6.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	44.3	17.5	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.4	1.3	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

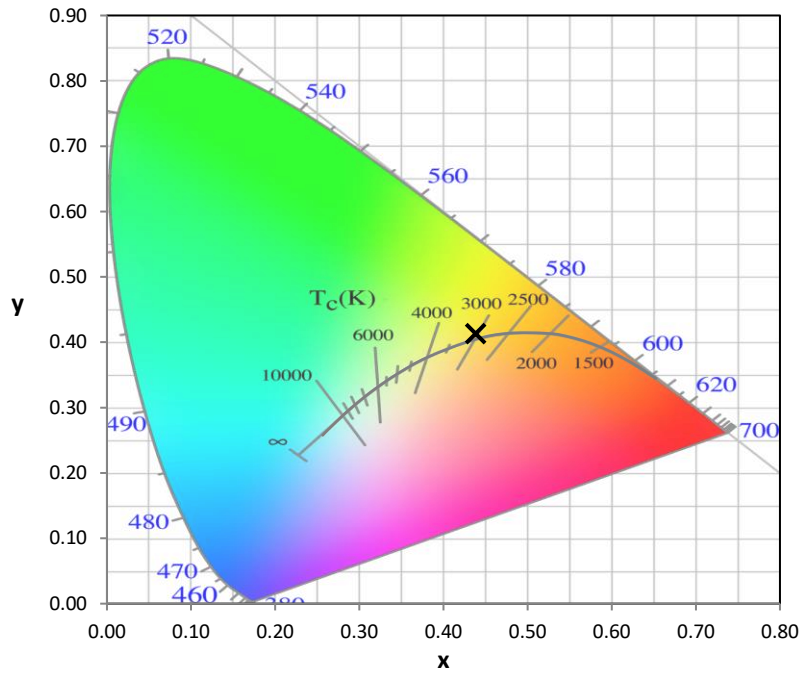
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

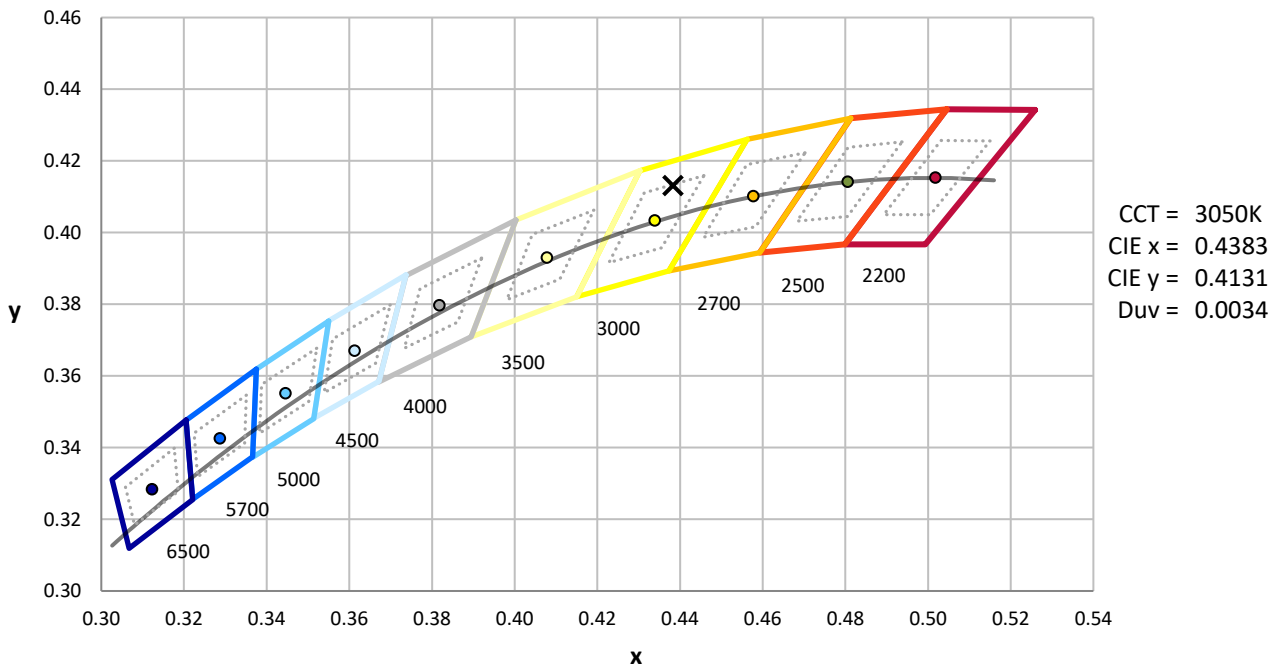
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

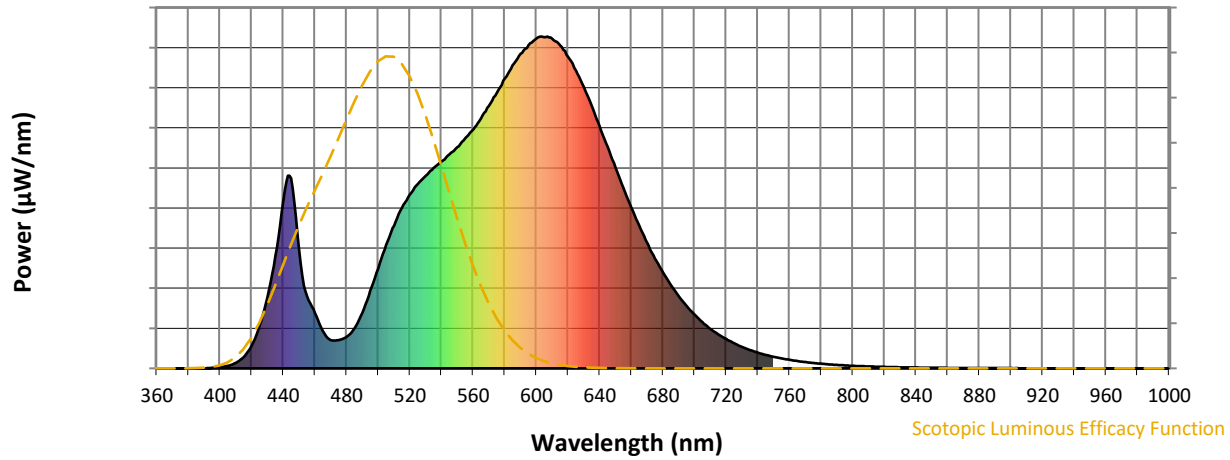


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



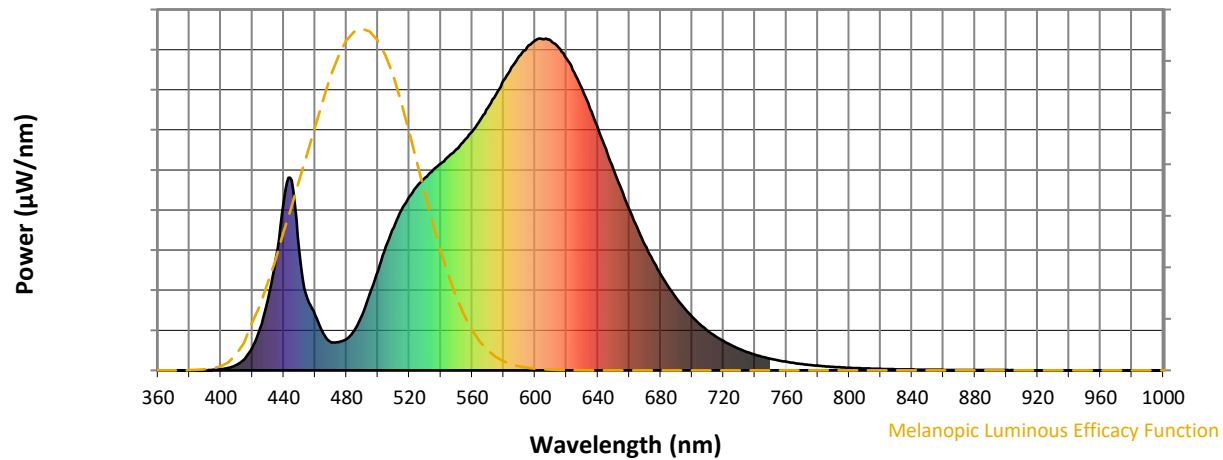
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

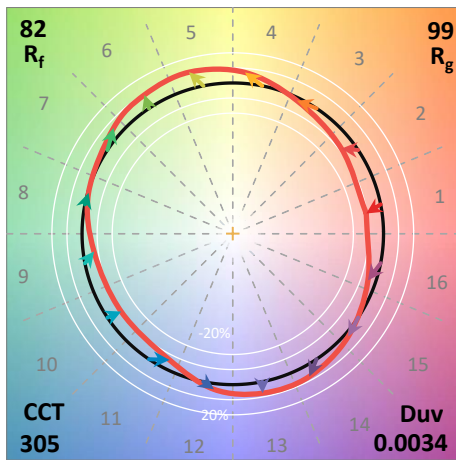
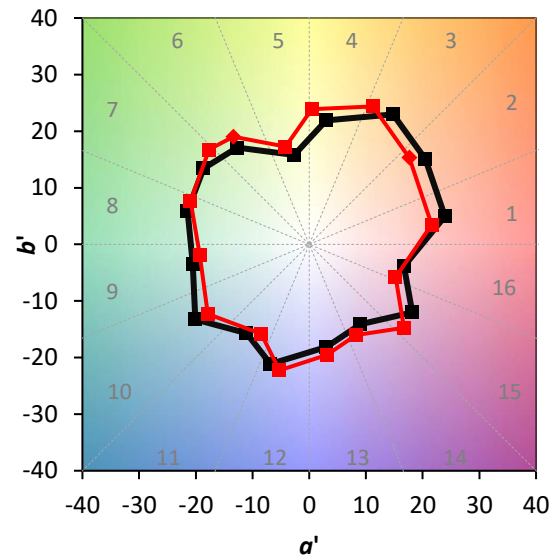
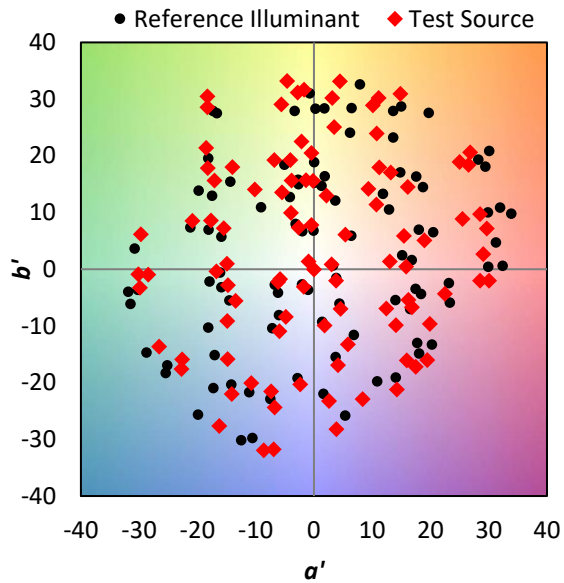
TM-30-18

Summary

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

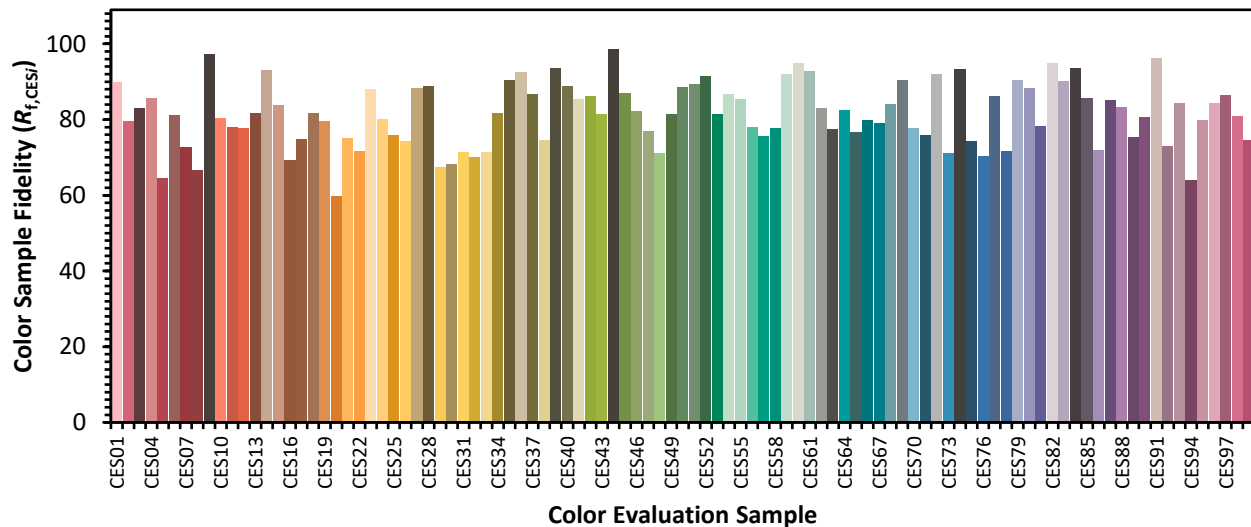


Color Vector Graphics

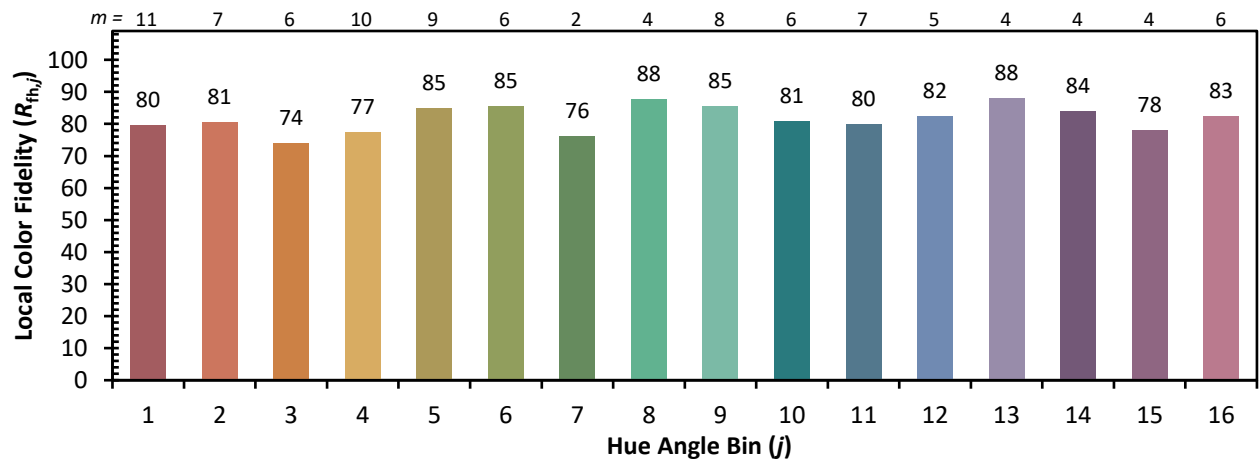
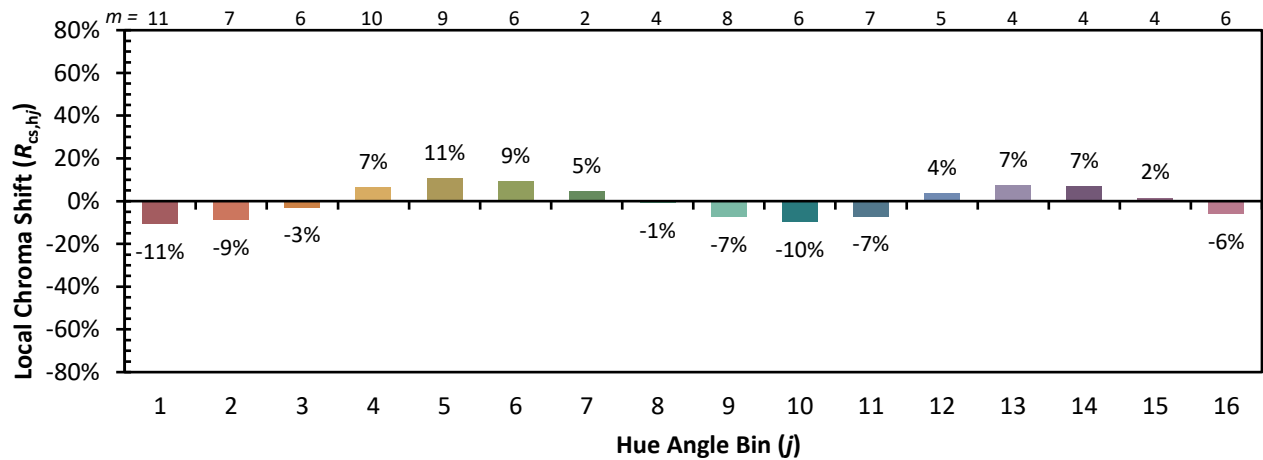


Individual Sample Fidelity Index ($R_{f,i}$)

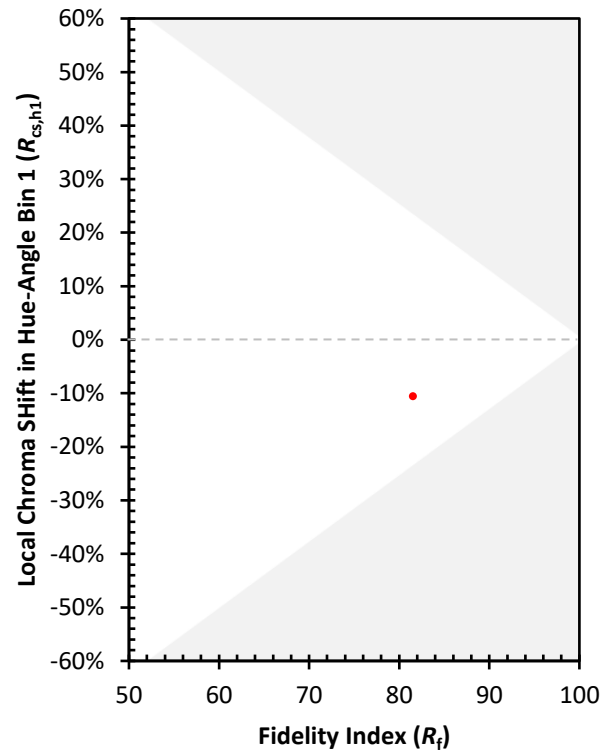
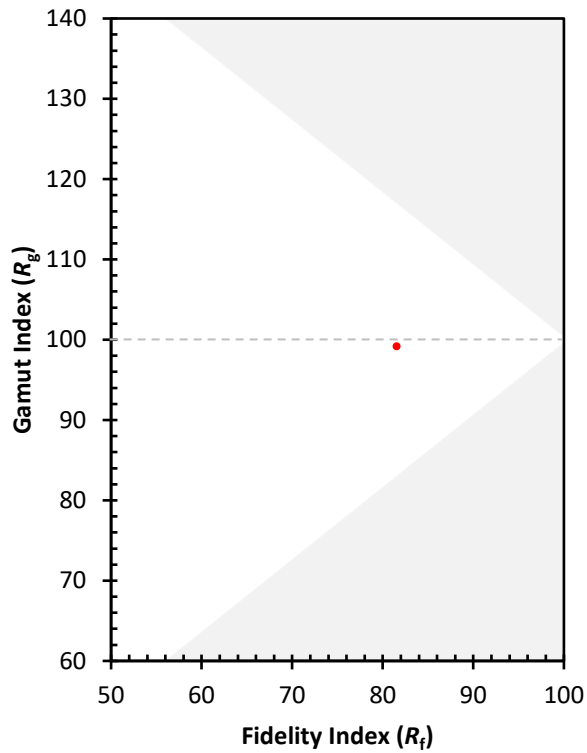
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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