

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: P323673

Luminaire Tested: **GLEON-SA9A-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28283 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

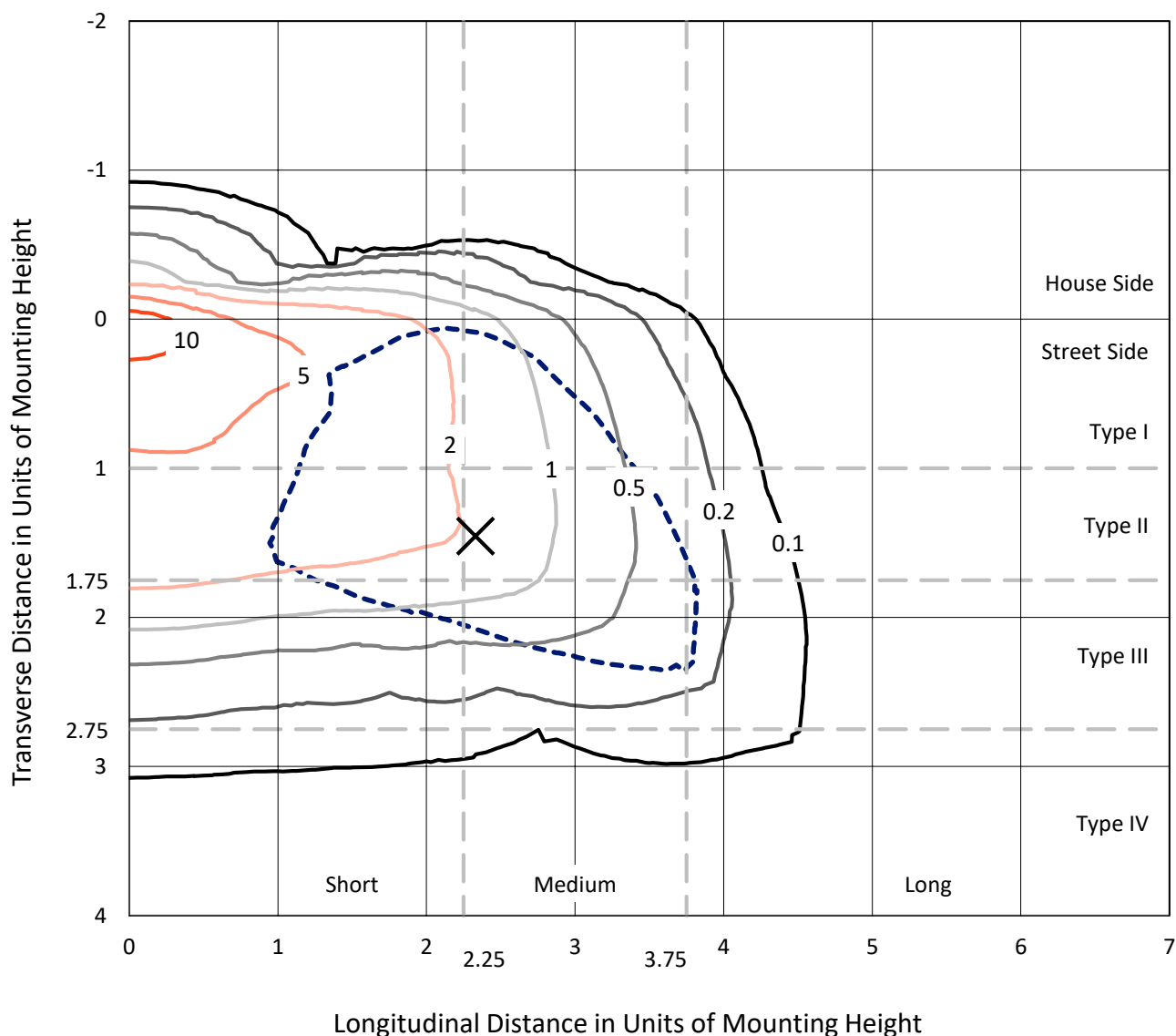
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

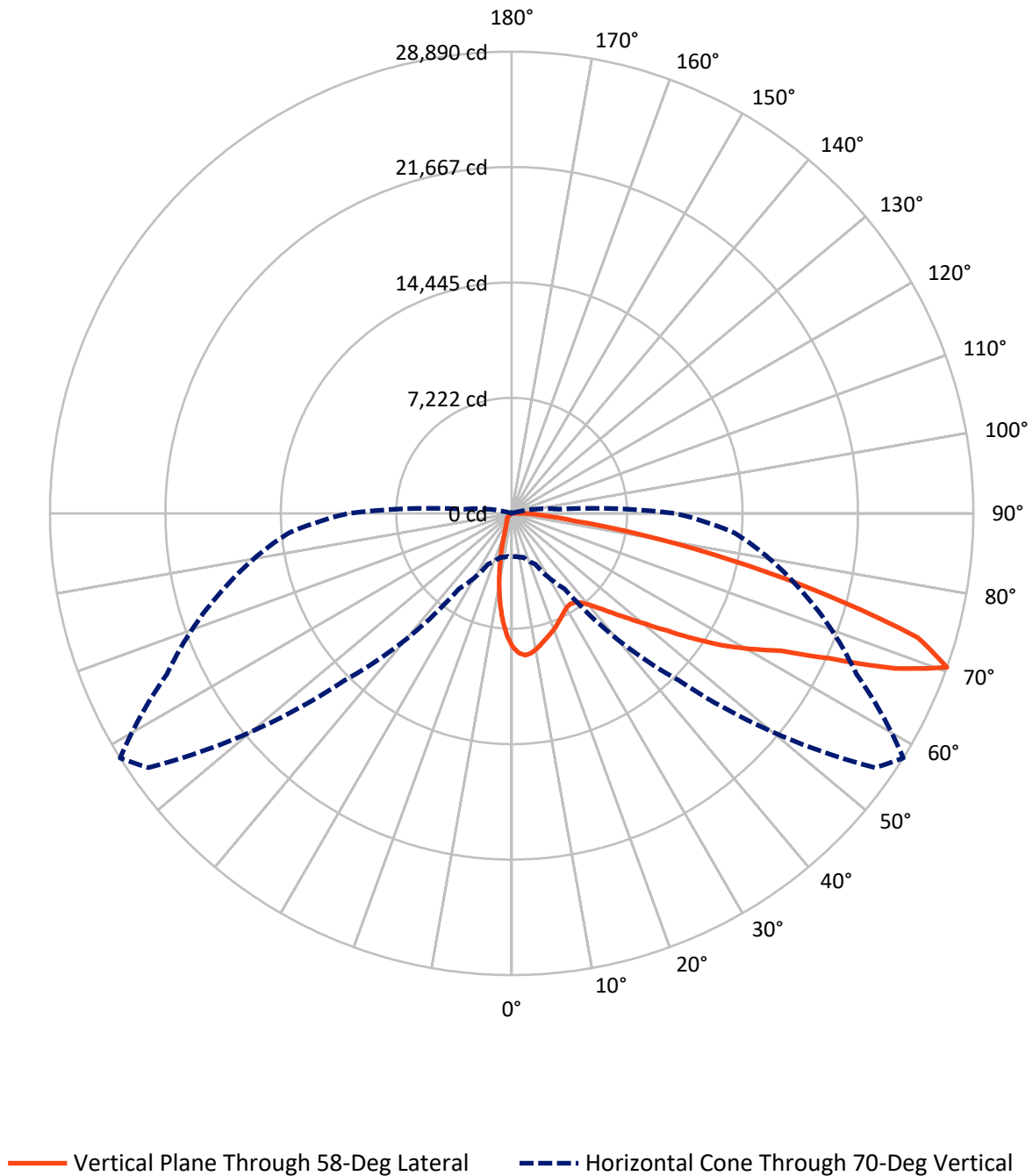
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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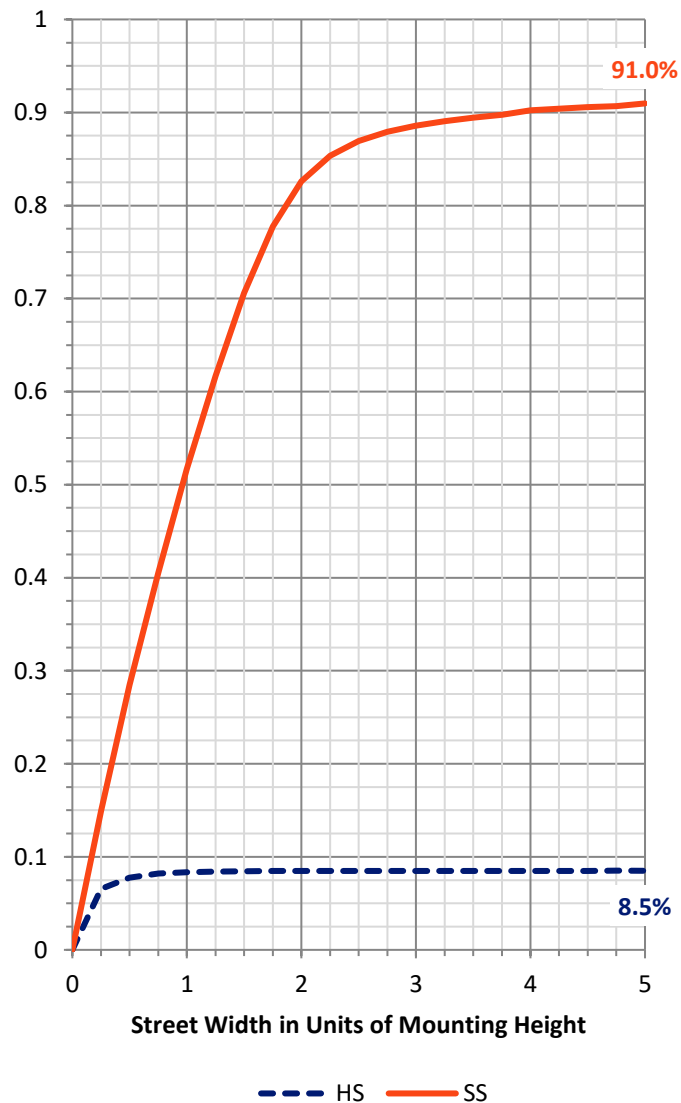
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.4	0.0	2420.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	25862.6	0.0	25862.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	28283.0	0.0	28283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.2	2.4
10°-20°	1433.9	5.1
20°-30°	1885.0	6.7
30°-40°	2496.5	8.8
40°-50°	3731.5	13.2
50°-60°	5977.8	21.1
60°-70°	7534.9	26.6
70°-80°	4064.3	14.4
80°-90°	475.7	1.7
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°	28283.0	100.0
0°-180°	28283.0	100.0

Coefficient of Utilization



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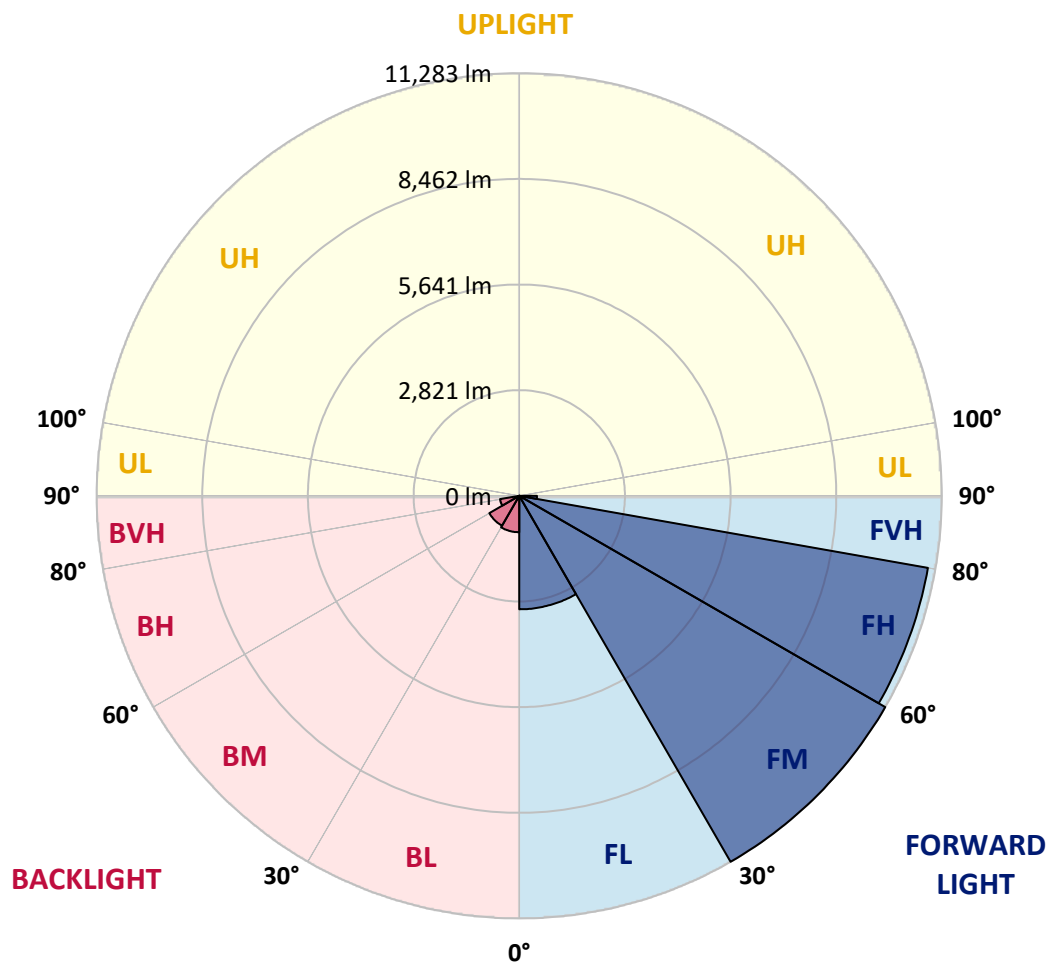
CATALOG NUMBER: GLEON-SA9A-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3029.7	10.7			
FM	(30°-60°)	11282.5	39.9			
FH	(60°-80°)	11078.7	39.2			G4/12000
FVH	(80°-90°)	471.6	1.7			G3/500
BL	(0°-30°)	972.4	3.4	B2/1000		
BM	(30°-60°)	923.3	3.3	B1/1000		
BH	(60°-80°)	520.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.1	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 III Medium





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CATALOG NUMBER: GLEON-SA9A-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7
2.5°	9047.4	9025.0	9016.8	9002.7	8948.6	8895.6	8791.0	8761.6	8695.7	8539.3	8373.5
5°	9054.4	9053.2	9077.9	9072.1	9053.2	9028.5	8953.3	8914.5	8802.7	8579.3	8275.9
7.5°	8618.1	8640.4	8695.7	8740.4	8792.2	8859.2	8868.6	8831.0	8739.2	8498.1	8095.9
10°	8032.4	8067.7	8145.3	8233.5	8368.8	8502.8	8622.8	8618.1	8586.3	8348.8	7879.5
12.5°	7445.6	7486.7	7576.1	7706.7	7898.4	8117.1	8331.1	8360.5	8413.5	8214.7	7679.6
15°	6931.6	6966.9	7055.1	7215.1	7452.6	7746.6	8060.7	8114.7	8251.2	8110.0	7512.6
17.5°	6495.3	6517.7	6582.4	6759.9	7035.1	7391.5	7799.6	7905.4	8108.9	8027.7	7368.0
20°	6190.7	6194.3	6236.6	6361.3	6636.5	7035.1	7529.1	7680.8	7958.3	7957.2	7218.6
22.5°	6040.2	6028.4	6036.7	6108.4	6310.7	6695.3	7258.6	7438.5	7823.1	7897.2	7066.9
25°	6012.0	6002.6	5979.0	5988.5	6110.8	6397.7	6985.7	7193.9	7704.3	7860.7	6935.2
27.5°	6100.2	6109.6	6069.6	6027.3	6036.7	6204.8	6743.5	6984.6	7607.9	7860.7	6842.3
30°	6277.8	6282.5	6253.1	6197.8	6123.7	6150.7	6575.3	6816.4	7559.7	7914.8	6783.5
32.5°	6474.2	6500.0	6496.5	6451.8	6346.0	6236.6	6535.3	6755.2	7556.1	8034.8	6777.6
35°	6717.6	6747.0	6796.4	6787.0	6676.4	6496.5	6671.7	6844.6	7625.5	8232.4	6841.1
37.5°	6976.3	7021.0	7126.9	7177.4	7105.7	6902.2	6977.5	7101.0	7811.3	8552.2	7002.2
40°	7226.8	7277.4	7470.3	7669.0	7614.9	7405.6	7440.9	7539.7	8141.8	9012.1	7308.0
42.5°	7472.6	7547.9	7831.3	8158.3	8222.9	8055.9	8074.8	8153.6	8632.2	9644.8	7807.8
45°	7766.6	7851.3	8271.2	8674.6	8847.4	8774.5	8854.5	8906.2	9273.2	10481.0	8481.7
47.5°	8198.2	8295.9	8811.0	9270.8	9574.2	9621.3	9782.4	9816.5	10083.5	11454.7	9360.2
50°	9040.3	9067.4	9533.1	9950.6	10388.1	10670.3	10853.8	10879.6	11064.3	12519.1	10457.4
52.5°	10099.9	10117.6	10381.0	10660.9	11158.4	11734.6	12163.9	12200.4	12239.2	13556.3	11540.6
55°	11152.5	11150.1	11324.2	11488.8	12058.0	12895.4	13826.8	13849.2	13570.4	14540.7	12368.5
57.5°	11809.9	11873.4	12138.0	12349.7	13144.7	14218.5	15510.9	15593.3	14968.8	15269.8	13187.1
60°	11600.6	11631.1	12218.0	13001.2	14498.4	16099.0	17215.0	17236.2	16020.2	15997.8	14222.0
62.5°	9883.5	9900.0	10822.0	12436.7	15184.0	18538.1	19270.8	18926.2	17229.1	17008.0	15460.4
65°	6774.1	6881.1	7651.4	9647.1	13924.4	20068.1	22453.2	21882.8	19072.0	18464.0	16580.0
67.5°	3989.2	3966.8	4347.9	5817.9	10226.9	19052.0	26478.8	25911.9	21585.2	19438.9	16251.8
70°	2724.9	2709.6	2855.5	3522.3	5773.2	14779.4	27745.4	28889.7	23804.4	18782.7	13986.8
72.5°	1945.2	1953.4	2168.6	2736.7	3624.6	8611.0	23859.7	26568.2	23109.4	16374.2	10631.5
75°	1320.7	1343.0	1651.2	2245.1	3177.7	4380.8	16931.6	20196.3	18818.0	11900.5	6110.8
77.5°	710.3	735.0	1098.4	1808.8	2873.1	3043.6	10891.4	13899.7	11820.5	5349.9	1771.1
80°	296.4	310.5	513.9	1314.8	2482.6	2673.2	6408.3	8428.8	5037.0	1054.9	395.2
82.5°	128.2	135.2	214.0	784.4	1855.8	2256.8	3392.9	4055.0	1526.5	231.7	198.8
85°	24.7	25.9	88.2	415.1	1184.3	1273.7	2199.2	2155.7	685.6	100.0	144.7
87.5°	0.0	0.0	21.2	130.5	348.1	693.9	1341.9	1325.4	232.9	48.2	54.1
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-SA9A-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7	8354.7
2.5°	8288.8	8207.7	8037.1	7826.6	7665.5	7487.9	7346.8	7168.0	7090.4	7093.9	7051.6
5°	8103.0	7936.0	7558.5	7082.2	6715.2	6336.6	6010.8	5686.2	5494.5	5432.2	5373.4
7.5°	7837.2	7572.6	6970.5	6236.6	5615.6	5008.8	4480.8	4016.2	3722.2	3578.7	3525.8
10°	7537.3	7165.7	6294.2	5327.5	4440.8	3619.9	2935.4	2340.3	2102.8	1941.7	1900.5
12.5°	7273.9	6770.5	5633.3	4394.9	3342.3	2352.1	1699.4	1328.9	1167.8	1104.3	1093.7
15°	7025.7	6401.2	4997.0	3550.5	2314.5	1447.7	1080.8	955.0	917.3	906.7	906.7
17.5°	6791.7	6049.6	4374.9	2719.0	1531.2	1014.9	895.0	866.7	855.0	853.8	855.0
20°	6547.1	5698.0	3763.4	1992.2	1069.0	859.7	826.8	811.5	807.9	807.9	807.9
22.5°	6313.0	5346.3	3168.3	1423.0	857.3	784.4	768.0	757.4	753.8	752.7	750.3
25°	6088.4	5012.3	2587.3	1005.5	752.7	718.6	704.5	690.3	679.8	673.9	670.3
27.5°	5903.8	4714.8	2046.3	806.8	679.8	650.4	632.7	611.5	585.7	573.9	569.2
30°	5756.8	4443.1	1577.1	680.9	611.5	582.1	555.1	518.6	481.0	461.0	459.8
32.5°	5641.5	4176.2	1197.2	602.1	550.4	513.9	475.1	429.3	385.7	363.4	362.2
35°	5585.1	3940.9	915.0	544.5	496.3	450.4	402.2	351.6	309.3	288.1	285.8
37.5°	5622.7	3742.2	713.9	496.3	450.4	397.5	341.1	288.1	250.5	231.7	230.5
40°	5760.3	3615.2	579.8	455.1	411.6	346.9	285.8	236.4	204.6	189.3	188.2
42.5°	6053.1	3568.1	495.1	421.0	374.0	299.9	237.6	195.2	165.8	155.2	152.9
45°	6542.4	3637.5	437.5	388.1	335.2	255.2	196.4	159.9	134.1	125.8	124.7
47.5°	7193.9	3819.8	396.3	356.3	299.9	215.2	163.5	129.4	109.4	101.1	100.0
50°	8033.6	4109.1	362.2	324.6	267.0	182.3	135.2	102.3	84.7	78.8	78.8
52.5°	8947.4	4453.7	331.6	295.2	234.0	151.7	109.4	78.8	67.0	60.0	60.0
55°	9702.4	4754.8	298.7	272.8	194.0	125.8	83.5	60.0	49.4	45.9	45.9
57.5°	10456.3	5075.8	261.1	234.0	155.2	102.3	63.5	44.7	36.5	34.1	34.1
60°	11433.6	5468.6	224.6	190.5	122.3	77.6	47.0	31.8	27.0	25.9	25.9
62.5°	12508.5	5699.1	191.7	152.9	95.3	57.6	34.1	21.2	20.0	20.0	18.8
65°	13165.9	5373.4	161.1	122.3	74.1	43.5	22.3	15.3	17.6	16.5	14.1
67.5°	12327.4	4206.7	131.7	95.3	57.6	32.9	14.1	10.6	18.8	15.3	11.8
70°	10206.9	2944.8	102.3	67.0	45.9	28.2	9.4	7.1	20.0	15.3	9.4
72.5°	7638.4	1971.1	81.1	44.7	34.1	24.7	8.2	3.5	17.6	12.9	8.2
75°	4173.8	793.8	64.7	28.2	21.2	17.6	5.9	2.4	11.8	9.4	5.9
77.5°	1098.4	209.3	47.0	18.8	11.8	7.1	3.5	1.2	5.9	4.7	2.4
80°	279.9	81.1	30.6	12.9	8.2	3.5	0.0	0.0	1.2	0.0	0.0
82.5°	149.4	34.1	18.8	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	112.9	22.3	10.6	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.5	7.1	3.5	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

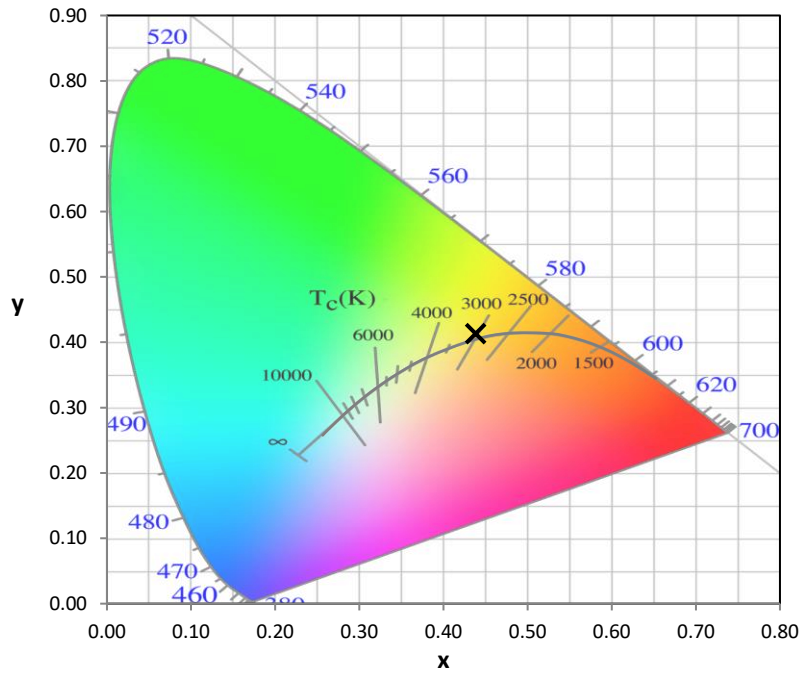
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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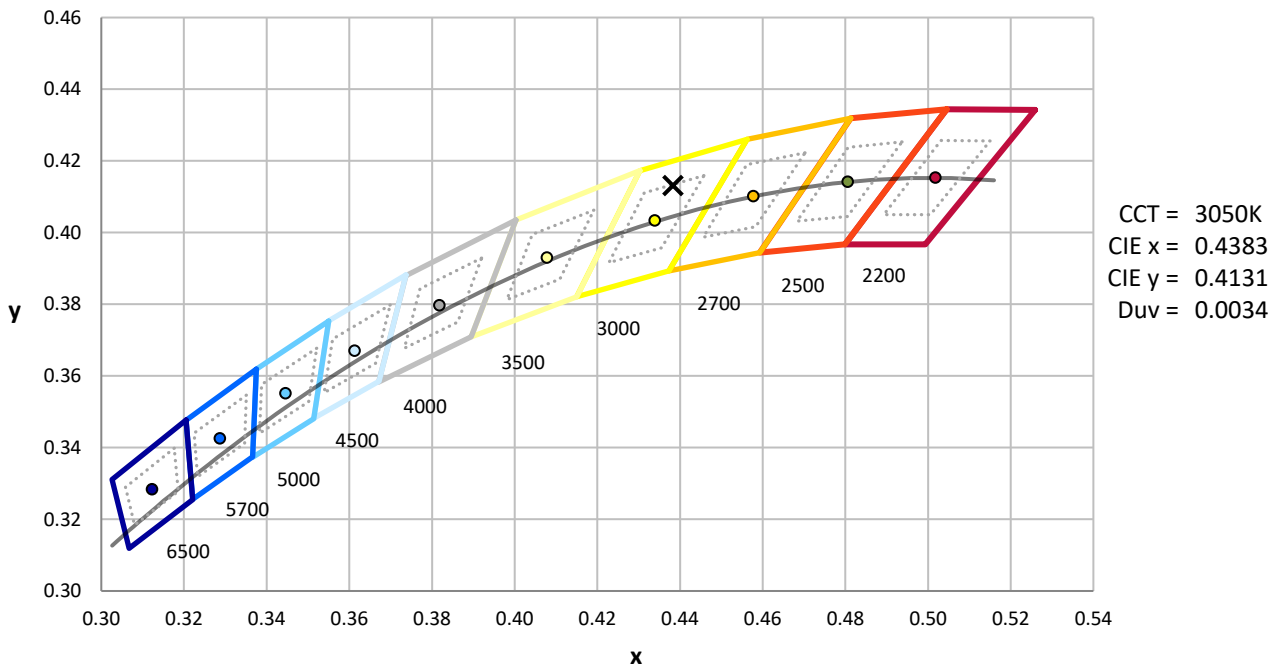
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

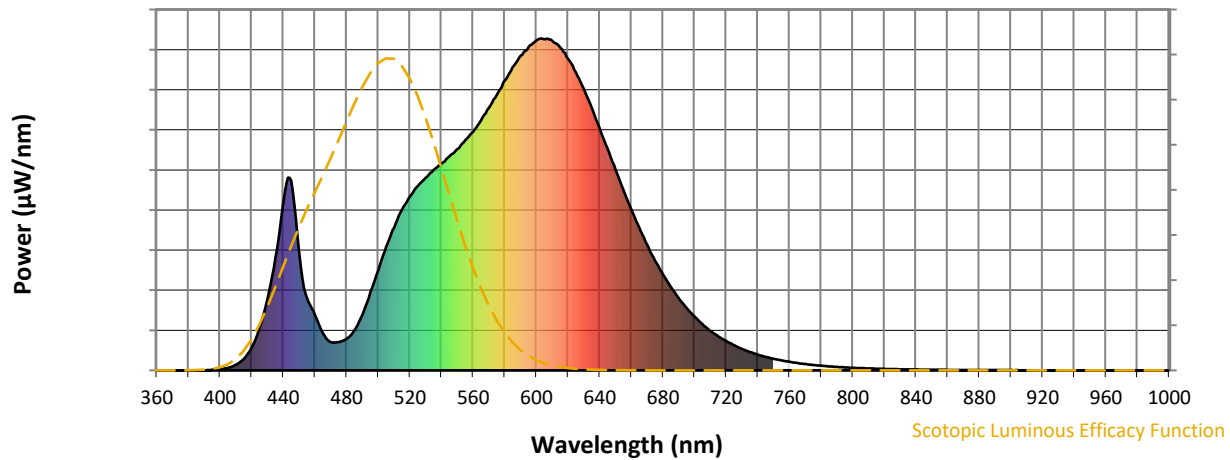


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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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Scotopic Flux vs. Wavelength



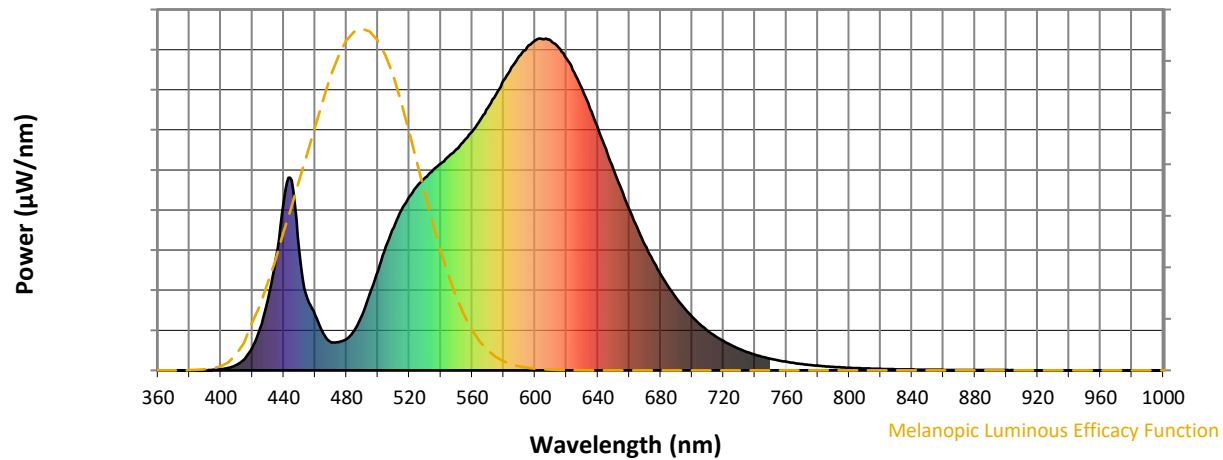
Scotopic Lumens: NR

S/P: 1.27

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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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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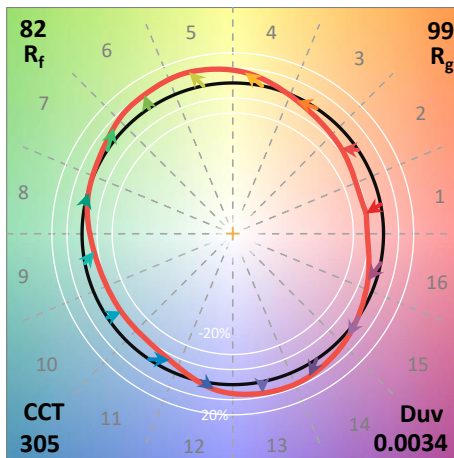
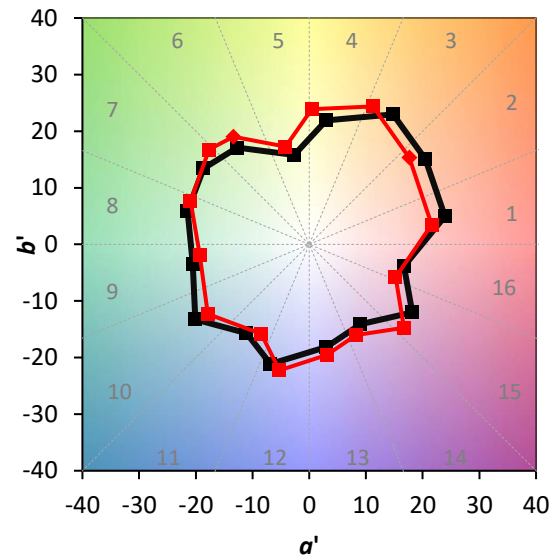
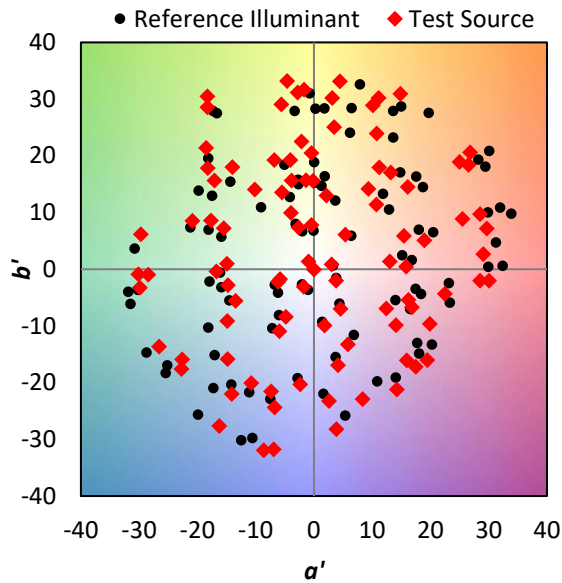
TM-30-18

Summary

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

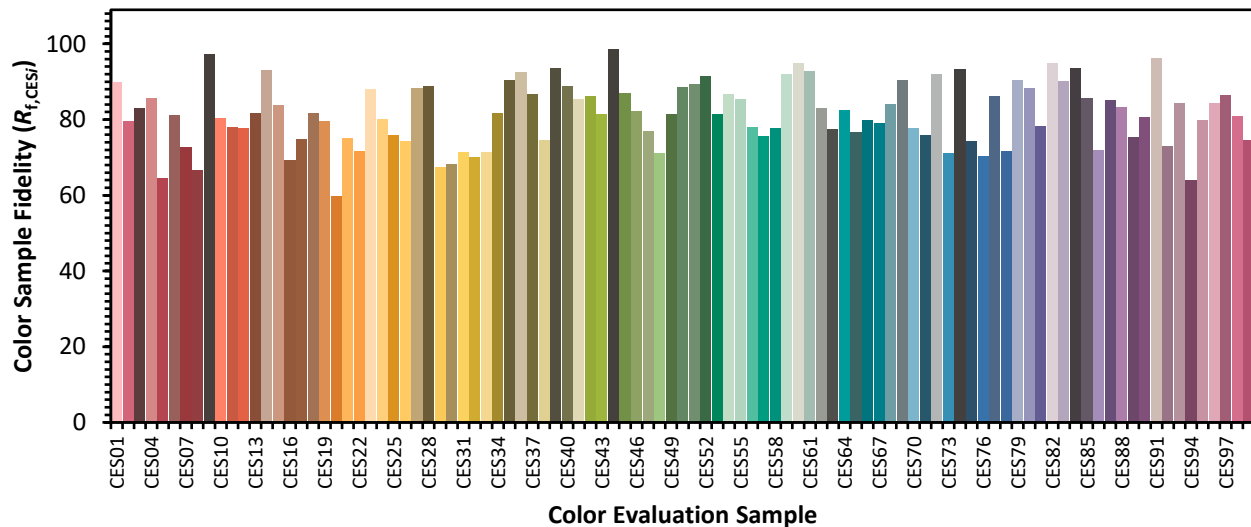


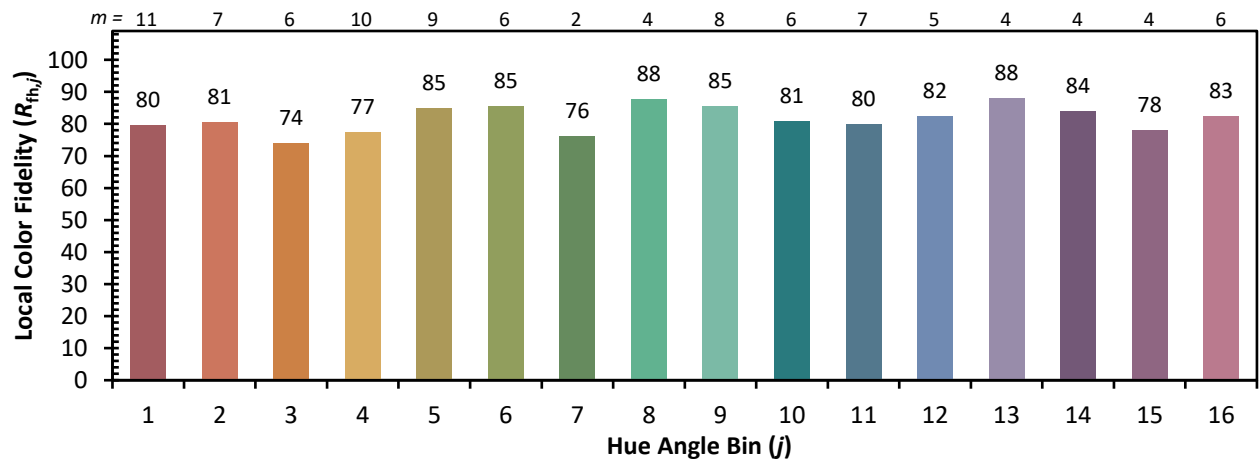
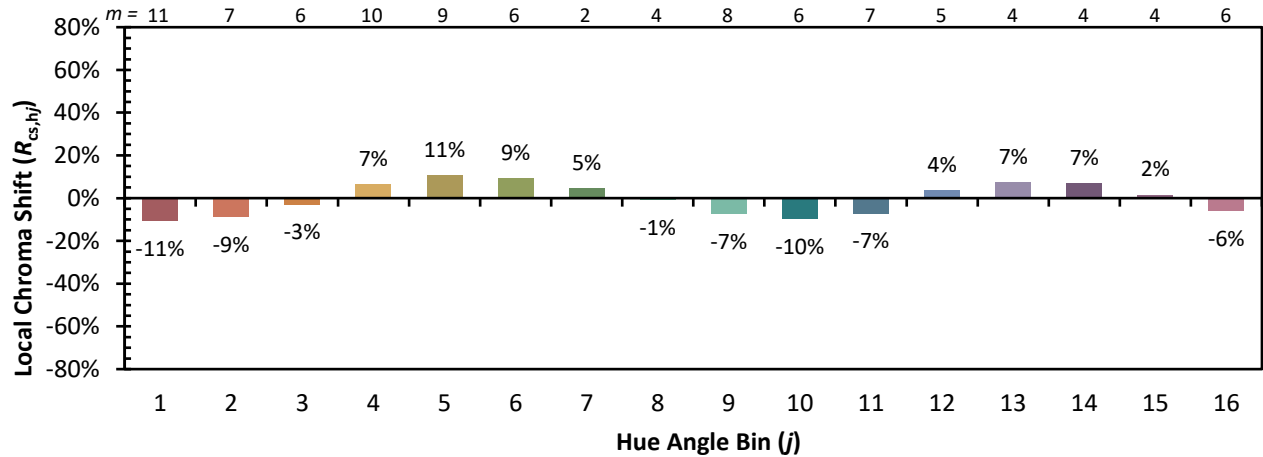
Color Vector Graphics



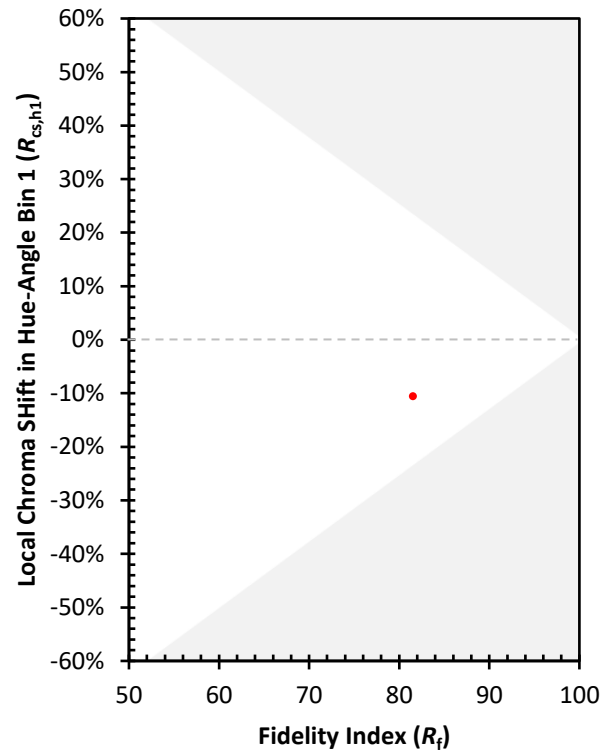
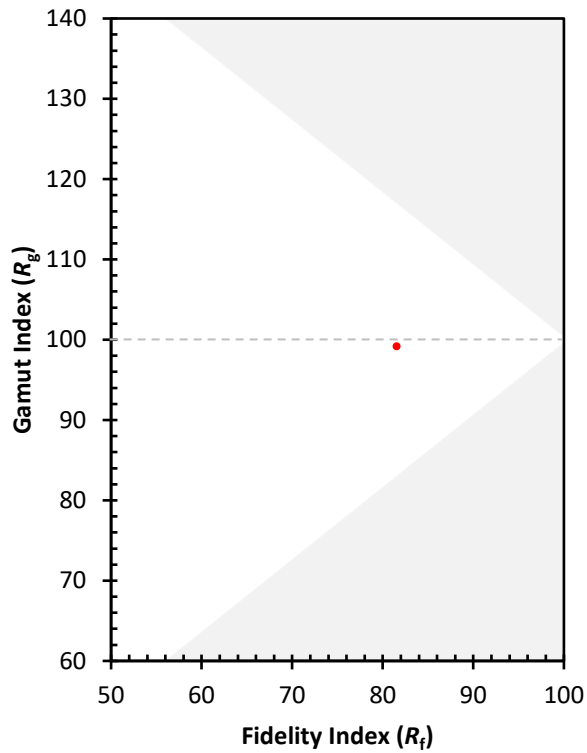
Individual Sample Fidelity Index ($R_{f,i}$)

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)