

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: P317909

Luminaire Tested: **GLEON-SA5A-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18924 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

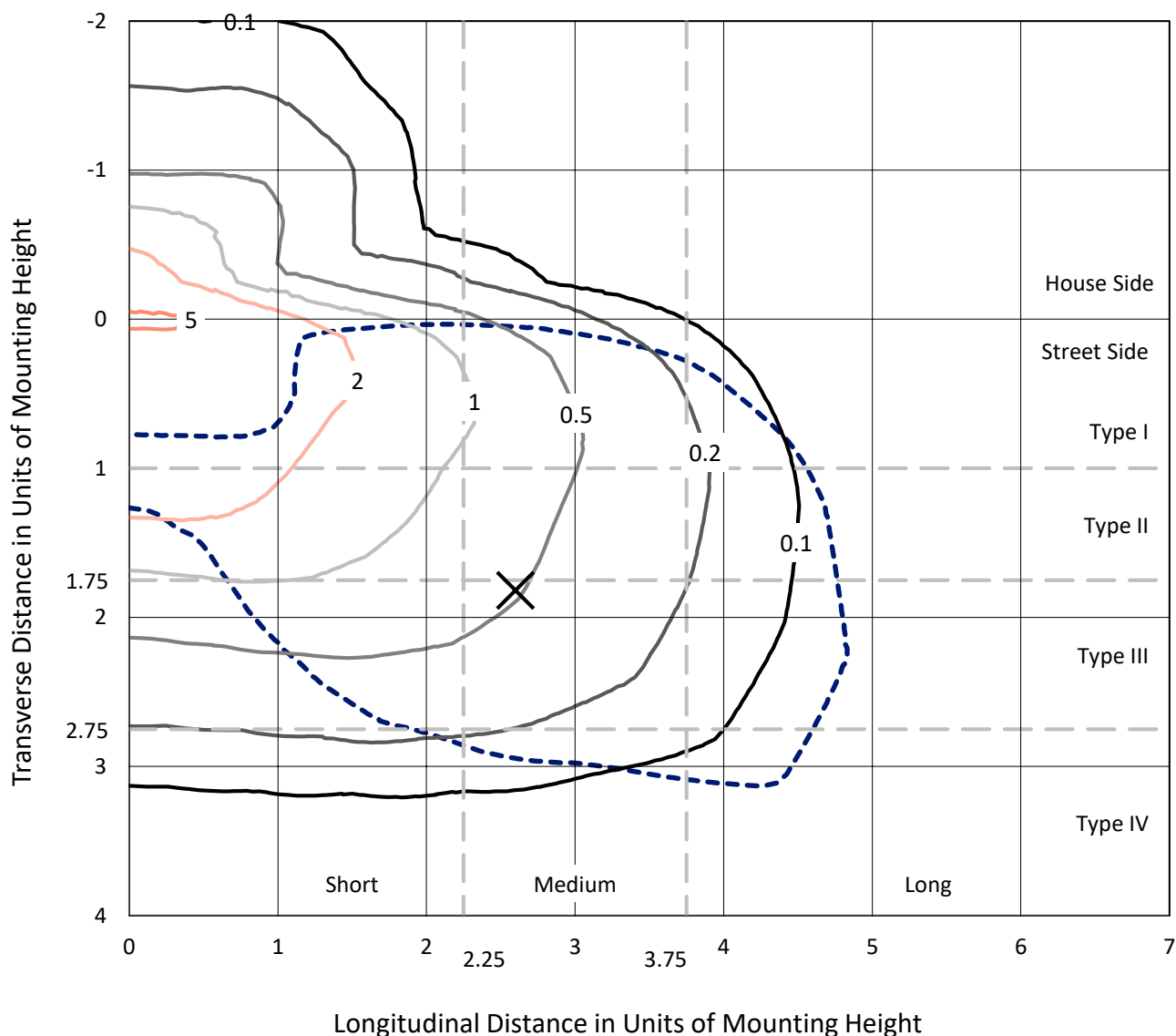
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

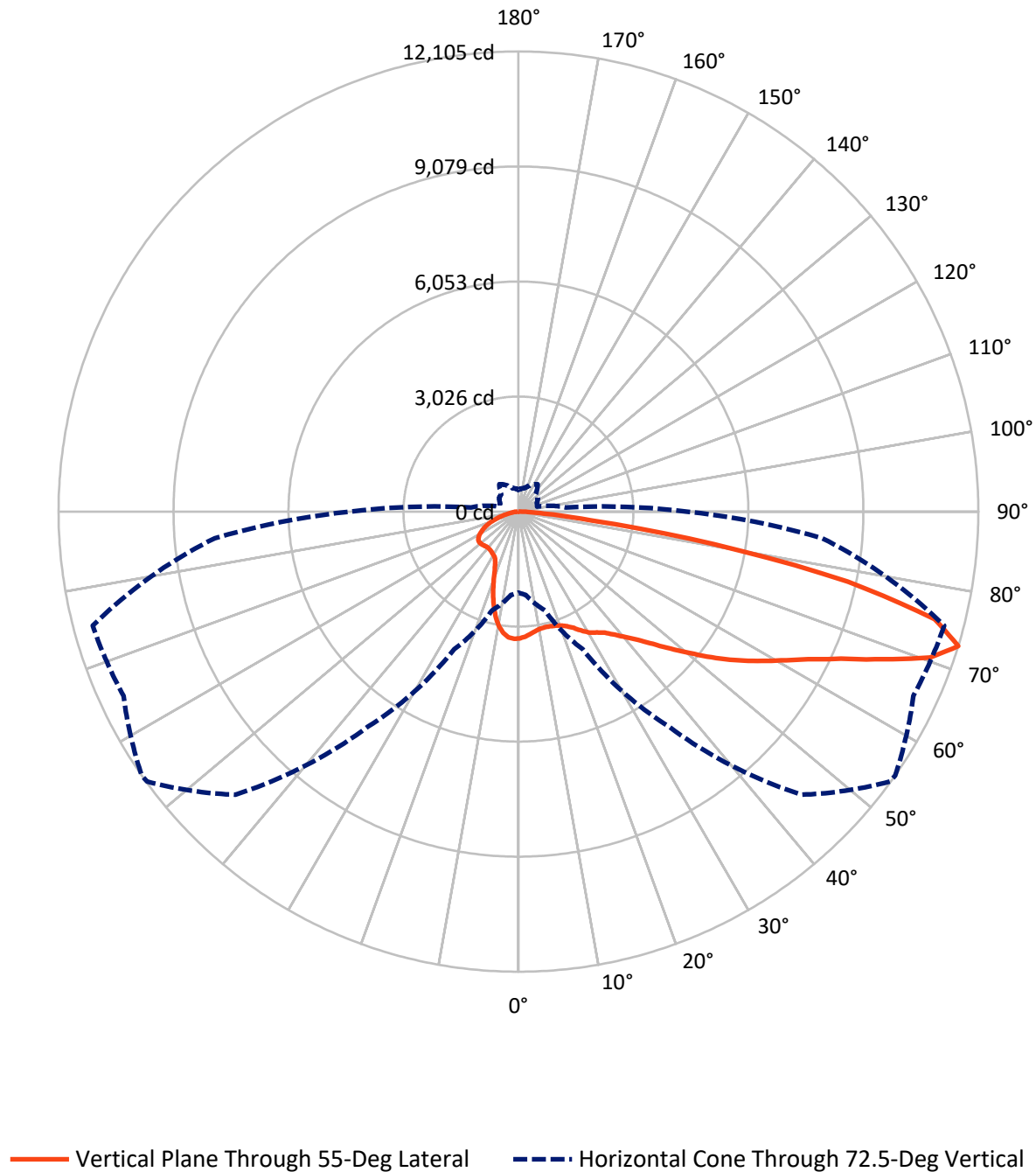
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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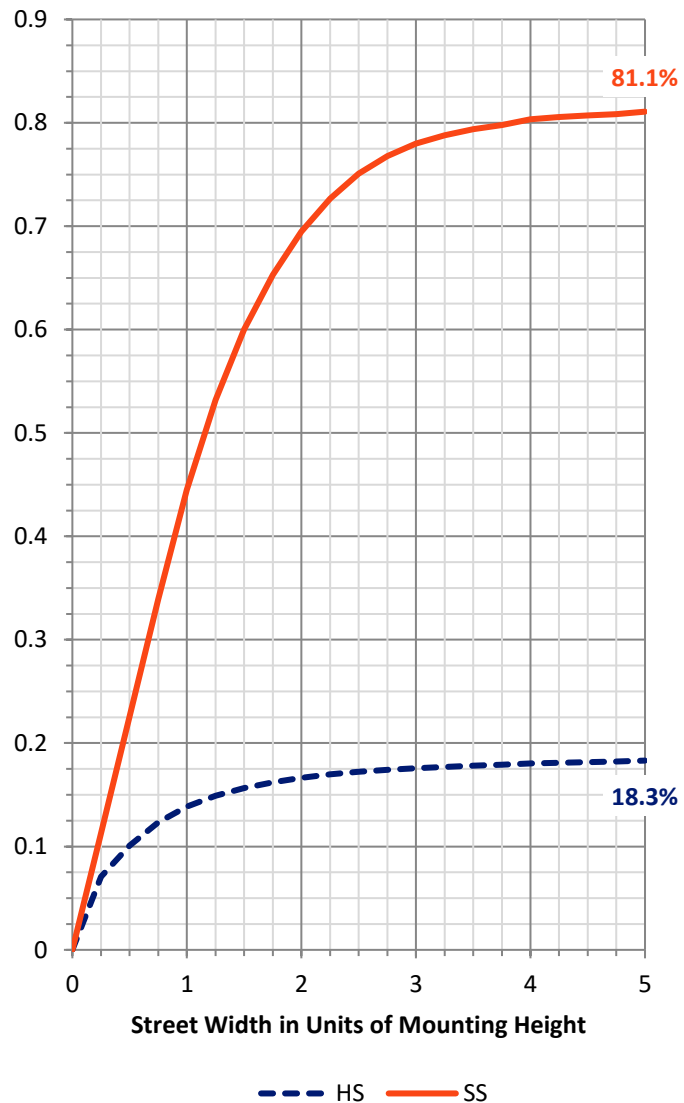
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3517.3	0.0	3517.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15406.6	0.0	15406.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	18924.0	0.0	18924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	1.6
10°-20°	804.1	4.2
20°-30°	1325.8	7.0
30°-40°	1961.2	10.4
40°-50°	2737.4	14.5
50°-60°	3564.2	18.8
60°-70°	4380.2	23.1
70°-80°	3433.6	18.1
80°-90°	415.5	2.2
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°	18924.0	100.0
0°-180°	18924.0	100.0

Coefficient of Utilization



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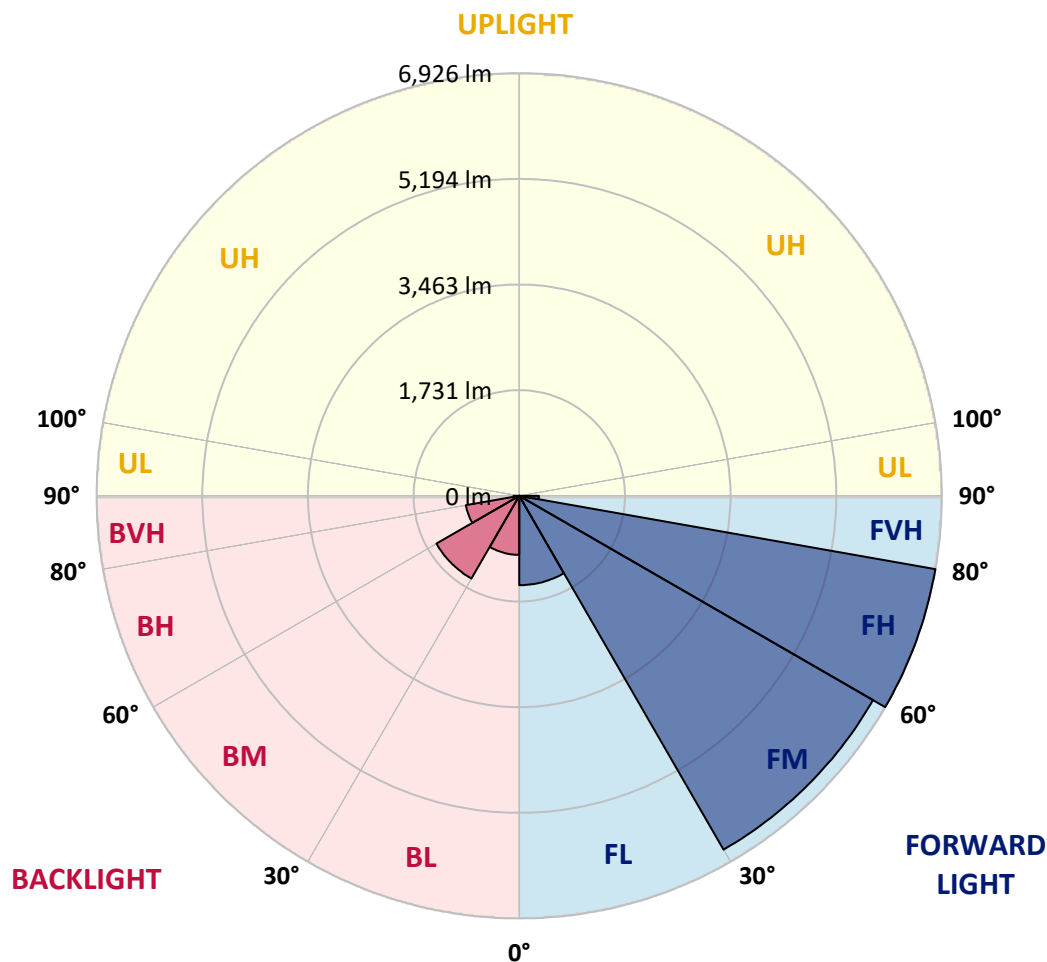
CATALOG NUMBER: GLEON-SA5A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.2	7.7			
FM	(30°-60°)	6695.7	35.4			
FH	(60°-80°)	6925.5	36.6			G3/7500
FVH	(80°-90°)	321.3	1.7			G3/500
BL	(0°-30°)	967.8	5.1	B2/1000		
BM	(30°-60°)	1567.0	8.3	B2/2500		
BH	(60°-80°)	888.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	94.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8
2.5°	3229.1	3221.5	3231.0	3244.5	3259.2	3279.0	3290.5	3295.6	3315.4	3323.1	3339.7
5°	3079.6	3075.7	3091.7	3114.7	3147.3	3193.3	3230.4	3237.4	3289.8	3326.9	3360.8
7.5°	2970.9	2970.9	2989.4	3016.9	3053.4	3115.4	3167.8	3177.4	3266.2	3346.1	3408.7
10°	2884.6	2887.8	2909.5	2942.1	2985.0	3050.8	3120.5	3131.3	3259.8	3390.8	3490.5
12.5°	2827.1	2834.8	2854.6	2884.0	2937.0	3016.9	3105.1	3119.8	3273.2	3454.8	3589.0
15°	2863.5	2876.3	2878.2	2890.4	2919.8	3006.7	3114.1	3129.4	3302.0	3520.0	3700.8
17.5°	3023.3	3027.8	3008.0	2982.4	2968.3	3024.0	3140.9	3156.9	3336.5	3584.5	3808.2
20°	3266.2	3263.6	3220.8	3151.8	3080.2	3089.1	3185.0	3201.6	3383.2	3641.4	3915.6
22.5°	3573.0	3564.1	3498.2	3371.0	3248.9	3197.8	3262.4	3276.4	3453.5	3722.6	4030.7
25°	3945.0	3925.2	3838.3	3667.6	3488.0	3356.3	3378.7	3392.1	3555.7	3813.3	4136.1
27.5°	4337.5	4317.6	4207.1	4000.6	3761.6	3556.4	3539.1	3550.6	3672.1	3880.4	4214.1
30°	4747.8	4726.7	4625.7	4394.3	4051.7	3763.5	3688.7	3693.2	3753.9	3916.9	4278.0
32.5°	5160.1	5140.3	5027.1	4758.7	4366.9	3985.9	3796.7	3791.0	3803.1	3954.6	4350.2
35°	5578.1	5585.8	5453.5	5156.2	4715.9	4233.3	3924.6	3912.4	3885.6	4031.9	4452.5
37.5°	6025.5	6020.4	5849.1	5538.5	5080.8	4501.7	4108.0	4106.1	4013.4	4178.3	4612.9
40°	6324.7	6327.9	6223.7	5929.7	5449.6	4798.9	4343.2	4338.7	4217.3	4397.5	4823.2
42.5°	6441.6	6462.7	6489.6	6302.9	5835.7	5143.5	4623.8	4617.4	4501.7	4712.0	5070.6
45°	6449.9	6492.1	6658.3	6634.7	6226.9	5537.8	4982.4	4964.5	4881.4	5130.0	5365.9
47.5°	6378.4	6421.8	6697.9	6832.2	6576.5	5953.9	5401.7	5387.6	5316.0	5652.9	5685.5
50°	6221.8	6263.3	6616.1	6928.7	6864.1	6354.1	5884.9	5847.8	5809.5	6256.9	6051.1
52.5°	5928.4	6008.3	6506.8	6951.7	7036.1	6709.4	6393.1	6368.8	6389.9	6894.2	6417.3
55°	5233.6	5323.1	6225.0	6932.5	7163.3	7007.9	6901.2	6899.9	7009.2	7562.8	6810.4
57.5°	4844.3	4907.6	5651.0	6899.9	7314.1	7304.5	7404.2	7416.4	7629.2	8290.8	7222.1
60°	4624.5	4690.9	5360.1	6779.1	7548.1	7688.0	7917.5	7941.8	8259.5	9096.8	7717.4
62.5°	4424.4	4497.3	5179.9	6533.0	7823.5	8236.4	8532.4	8554.1	8926.8	9925.2	8196.2
65°	4082.4	4164.9	4915.9	6371.3	8074.1	8951.7	9314.1	9328.8	9693.1	10793.2	8562.4
67.5°	3599.2	3674.6	4418.0	6014.0	8259.5	9820.3	10353.4	10361.7	10453.1	11406.1	8749.7
70°	3034.8	3063.6	3708.5	5276.4	8040.2	10632.7	11492.4	11494.3	11146.0	11798.6	8719.0
72.5°	2132.3	2200.0	2692.2	3994.2	6909.5	10533.7	12083.7	12105.4	11468.1	11600.4	8022.3
75°	1307.8	1379.3	1688.7	2420.6	4383.5	8284.4	11164.5	11315.4	10864.1	10343.2	6553.5
77.5°	874.4	901.2	1101.9	1411.3	1985.9	4766.3	8583.5	8867.3	9025.2	7542.9	4191.1
80°	487.7	538.8	730.6	877.0	883.3	1893.9	5146.7	5213.1	5021.4	3003.5	1293.1
82.5°	258.2	286.4	487.7	515.2	481.9	634.1	1918.2	1920.1	1604.3	805.4	384.1
85°	200.1	223.7	334.3	314.5	246.1	281.2	632.8	667.3	545.9	329.8	125.3
87.5°	99.7	124.0	226.9	199.4	96.5	80.5	226.3	241.6	215.4	129.1	45.4
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-SA5A-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8	3337.8
2.5°	3346.1	3351.8	3358.9	3351.2	3348.7	3338.4	3321.2	3317.3	3308.4	3309.0	3314.1
5°	3375.5	3385.1	3381.3	3351.8	3316.7	3267.5	3216.3	3172.9	3144.1	3142.2	3140.3
7.5°	3431.7	3438.1	3408.1	3324.4	3225.9	3112.2	3004.8	2910.8	2853.9	2839.9	2836.7
10°	3520.0	3518.7	3436.2	3267.5	3071.2	2868.0	2695.4	2565.0	2489.0	2466.6	2460.8
12.5°	3618.4	3603.7	3445.8	3163.9	2852.7	2570.8	2352.2	2207.1	2127.8	2102.3	2095.9
15°	3720.0	3683.6	3422.2	3009.2	2584.2	2250.5	2021.1	1886.9	1844.0	1830.0	1827.4
17.5°	3814.6	3744.3	3354.4	2799.6	2278.0	1931.6	1752.6	1698.9	1709.2	1727.7	1728.3
20°	3907.3	3785.2	3245.7	2535.0	1955.2	1668.9	1608.2	1647.8	1696.4	1734.1	1739.2
22.5°	3998.7	3814.0	3105.8	2229.5	1666.3	1521.2	1564.1	1636.3	1691.9	1732.8	1739.8
25°	4075.4	3821.0	2912.7	1903.5	1465.6	1465.6	1543.0	1611.4	1666.3	1706.6	1713.6
27.5°	4103.5	3773.7	2640.4	1601.8	1364.6	1440.1	1513.6	1570.5	1617.1	1659.9	1667.6
30°	4114.4	3686.1	2326.0	1359.5	1323.1	1412.6	1473.9	1522.5	1566.6	1606.9	1613.9
32.5°	4116.3	3580.7	1992.3	1222.1	1294.3	1383.8	1424.7	1467.6	1514.9	1530.8	1533.4
35°	4128.4	3456.0	1640.8	1151.8	1267.5	1357.0	1389.6	1420.3	1343.6	1349.3	1354.4
37.5°	4163.6	3332.7	1346.7	1112.2	1250.2	1342.9	1381.9	1270.7	1210.6	1196.5	1194.6
40°	4229.4	3201.0	1128.8	1080.2	1243.8	1349.9	1332.7	1186.3	1082.8	1005.4	993.9
42.5°	4320.8	3059.1	989.4	1059.1	1248.3	1383.8	1264.3	1105.1	933.2	883.3	877.0
45°	4423.7	2910.2	914.0	1044.4	1263.7	1410.0	1250.2	997.1	863.5	825.8	822.6
47.5°	4523.5	2728.0	875.0	1038.0	1284.7	1388.9	1190.8	963.9	830.3	810.5	812.4
50°	4637.9	2563.7	851.4	1031.0	1303.3	1375.5	1123.7	946.6	817.5	841.8	867.4
52.5°	4734.4	2393.7	830.3	1016.9	1310.3	1351.9	1106.4	949.8	817.5	864.2	888.5
55°	4848.8	2265.2	806.0	987.5	1296.9	1284.7	1094.3	969.0	827.1	797.7	800.3
57.5°	4996.5	2223.1	779.2	941.5	1252.1	1187.0	1088.5	987.5	821.3	802.8	809.2
60°	5201.0	2267.8	768.3	881.4	1182.5	1110.3	1089.2	977.9	781.1	749.1	749.8
62.5°	5395.9	2317.7	767.7	843.7	1096.8	1041.9	1074.5	946.6	760.6	742.1	749.1
65°	5459.9	2267.2	737.0	801.5	1000.3	960.0	1047.6	913.4	745.3	717.2	715.9
67.5°	5374.2	2110.6	675.0	733.1	889.7	864.8	1012.5	873.8	721.0	698.0	694.1
70°	5119.8	1760.9	598.3	643.0	763.8	757.4	956.8	827.7	688.4	668.6	652.0
72.5°	4435.3	1254.7	504.3	535.0	621.9	642.4	880.1	767.7	642.4	599.5	574.0
75°	3642.7	928.7	414.2	420.6	472.4	528.0	774.7	697.3	588.0	515.2	495.4
77.5°	2230.7	568.2	329.8	332.4	338.8	421.2	637.9	618.7	519.0	429.5	415.5
80°	722.3	310.0	238.4	250.6	231.4	308.7	493.4	526.7	445.5	359.2	343.9
82.5°	274.8	180.9	161.1	169.4	160.4	207.1	359.9	421.9	365.0	295.3	240.3
85°	132.9	102.3	95.2	106.7	99.1	106.1	230.1	310.6	276.8	192.4	179.0
87.5°	47.3	45.4	36.4	49.2	42.2	37.7	70.3	156.6	182.8	132.3	118.2
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
 Rf: 81.5
 Rg: 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

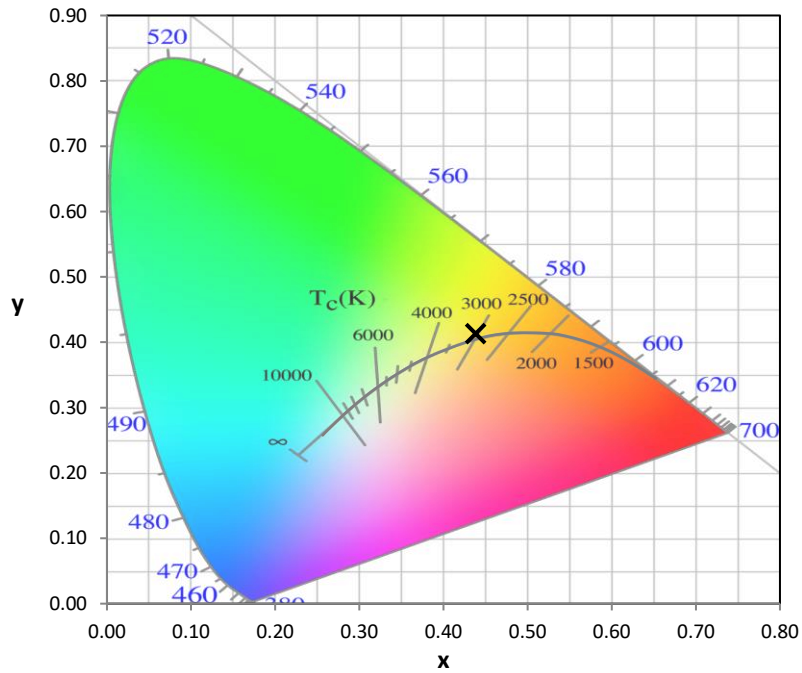
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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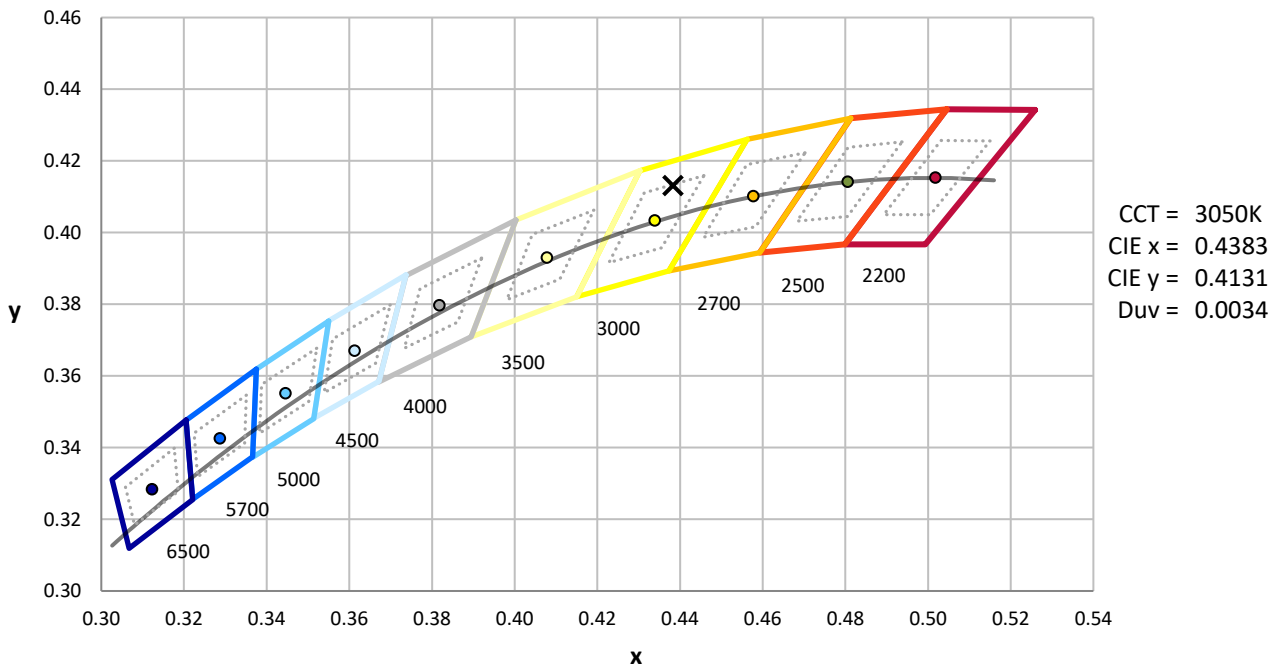
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

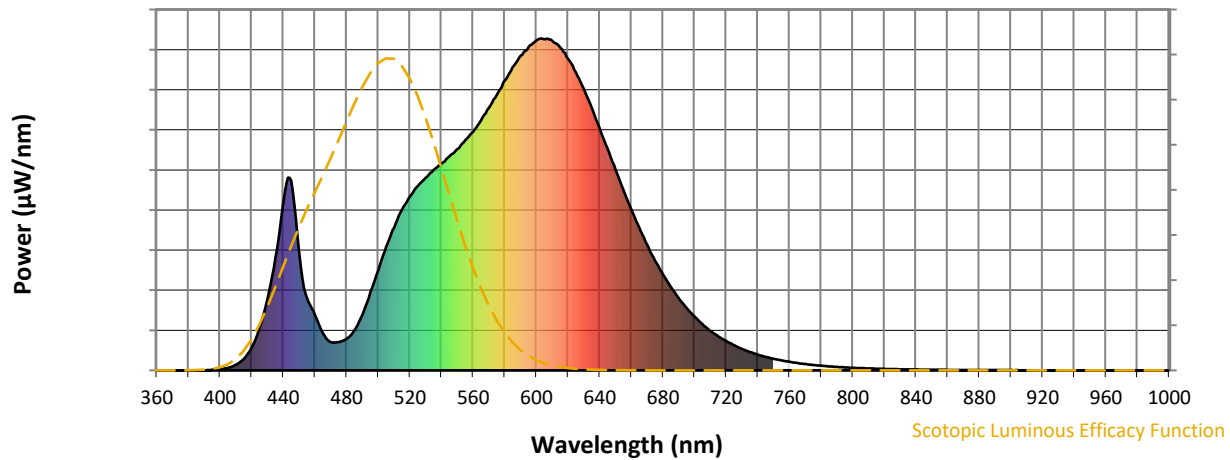


Photopic Lumens: NR

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



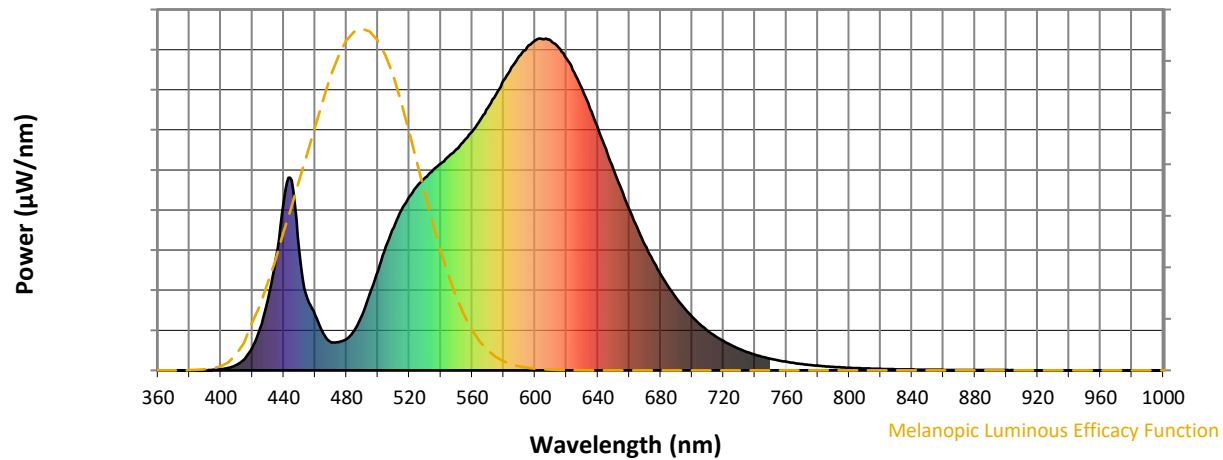
Scotopic Lumens: NR

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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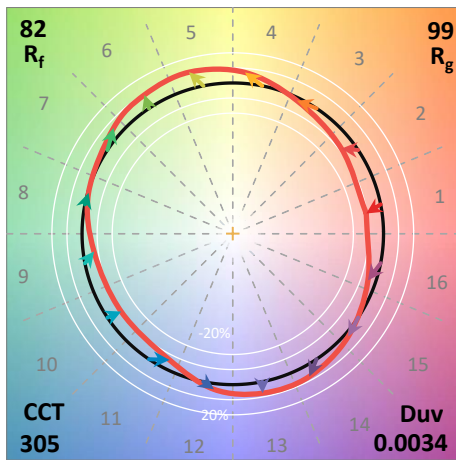
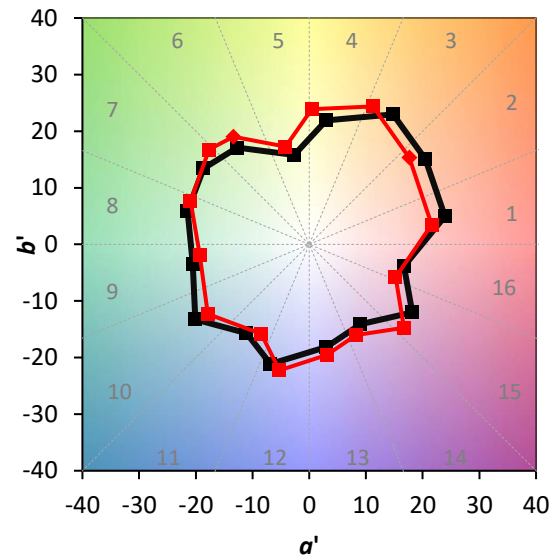
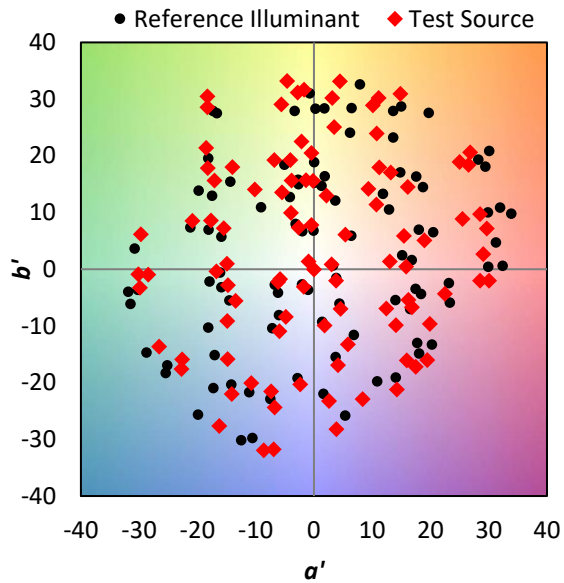
TM-30-18

Summary

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

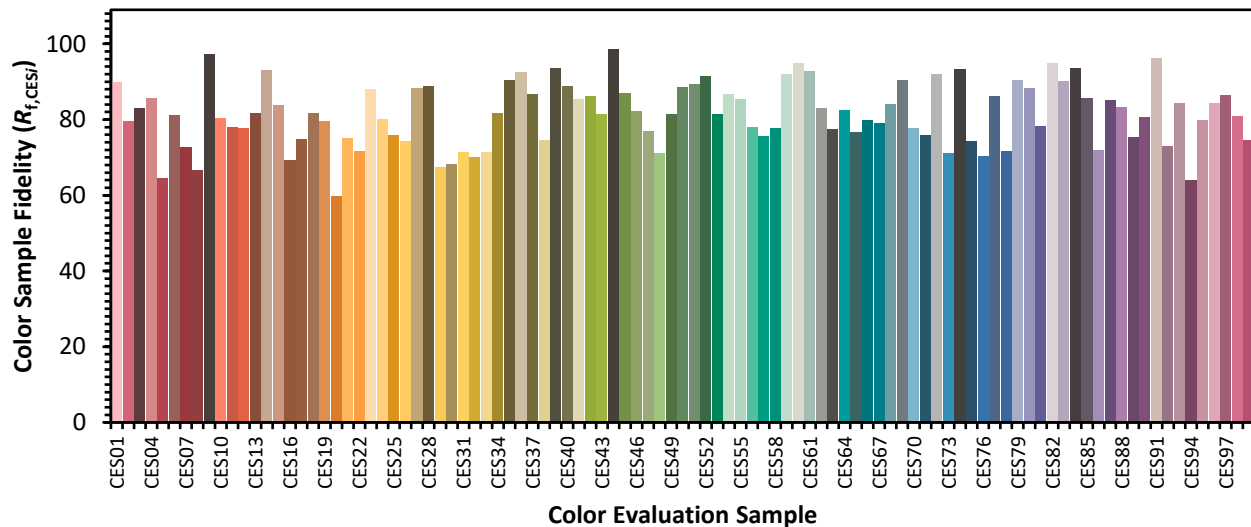


Color Vector Graphics

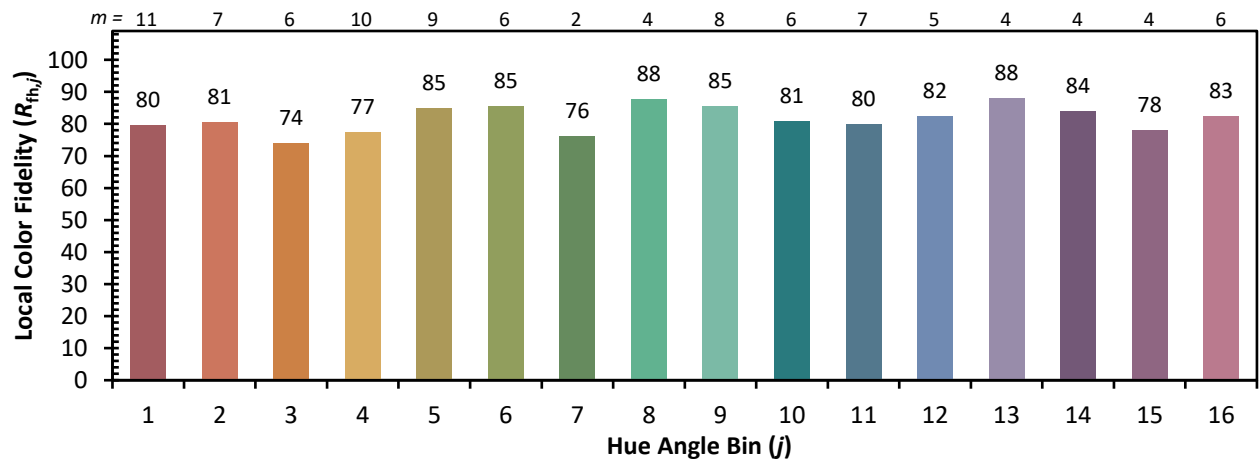
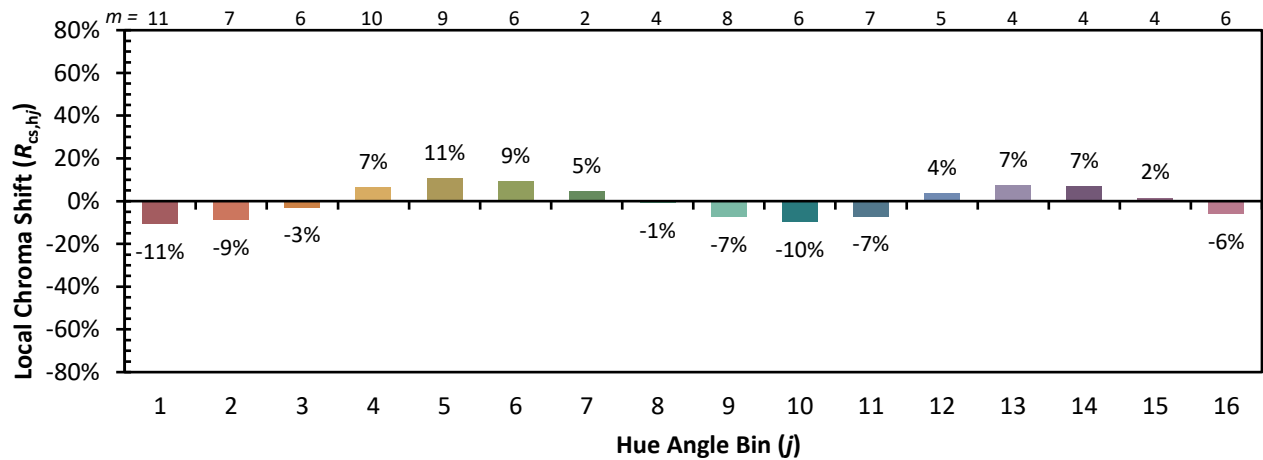


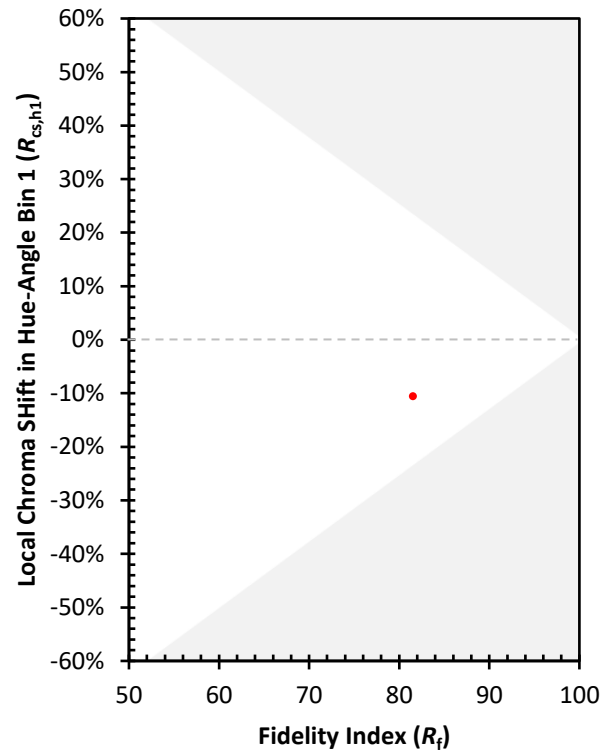
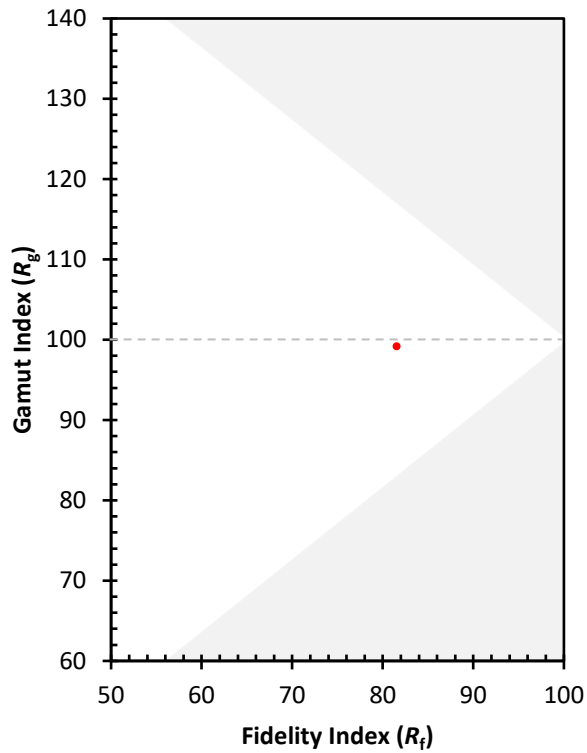
Individual Sample Fidelity Index ($R_{f,i}$)

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)