

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: P321778

Luminaire Tested: **GLEON-SA4D-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19129 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

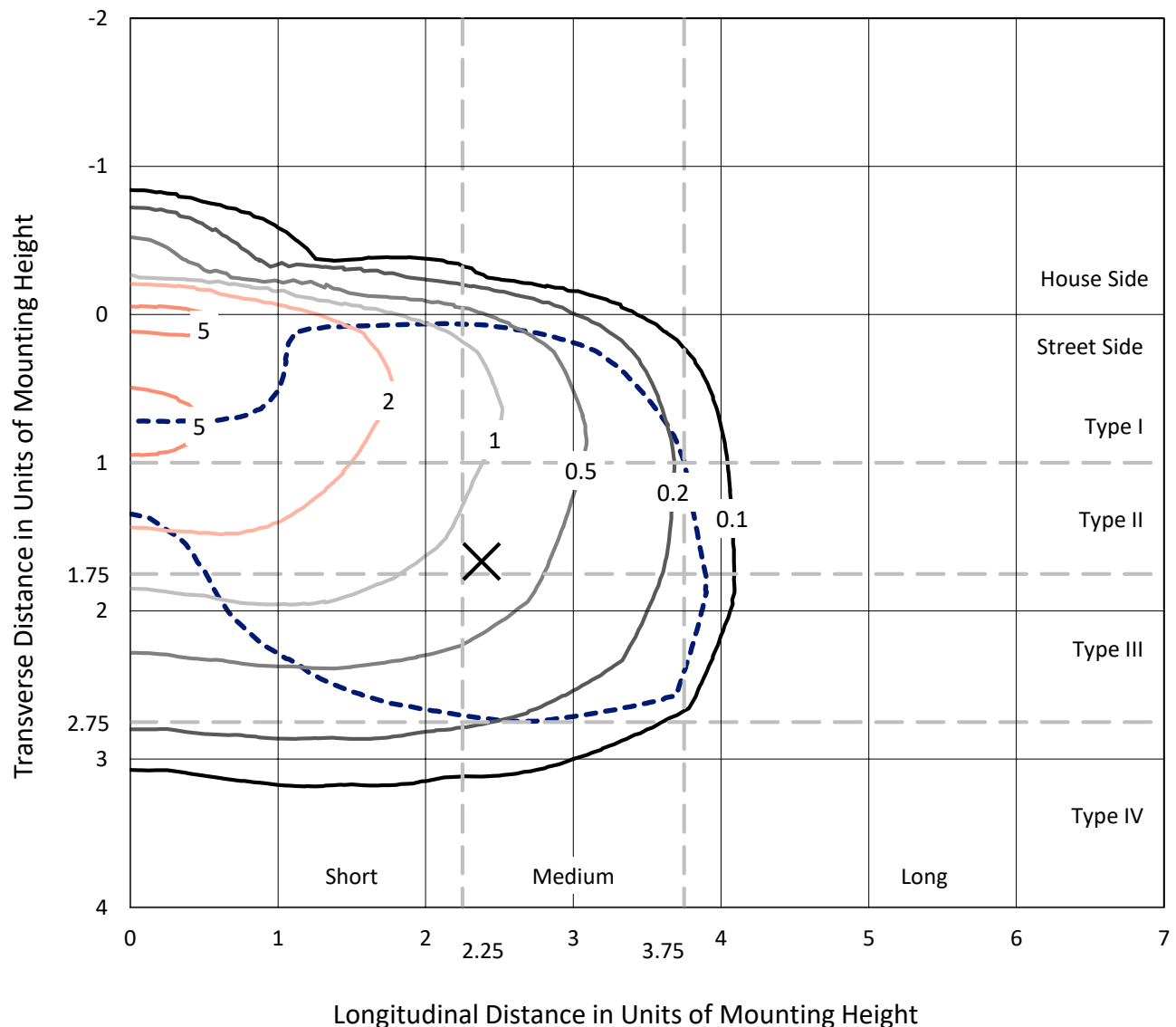
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

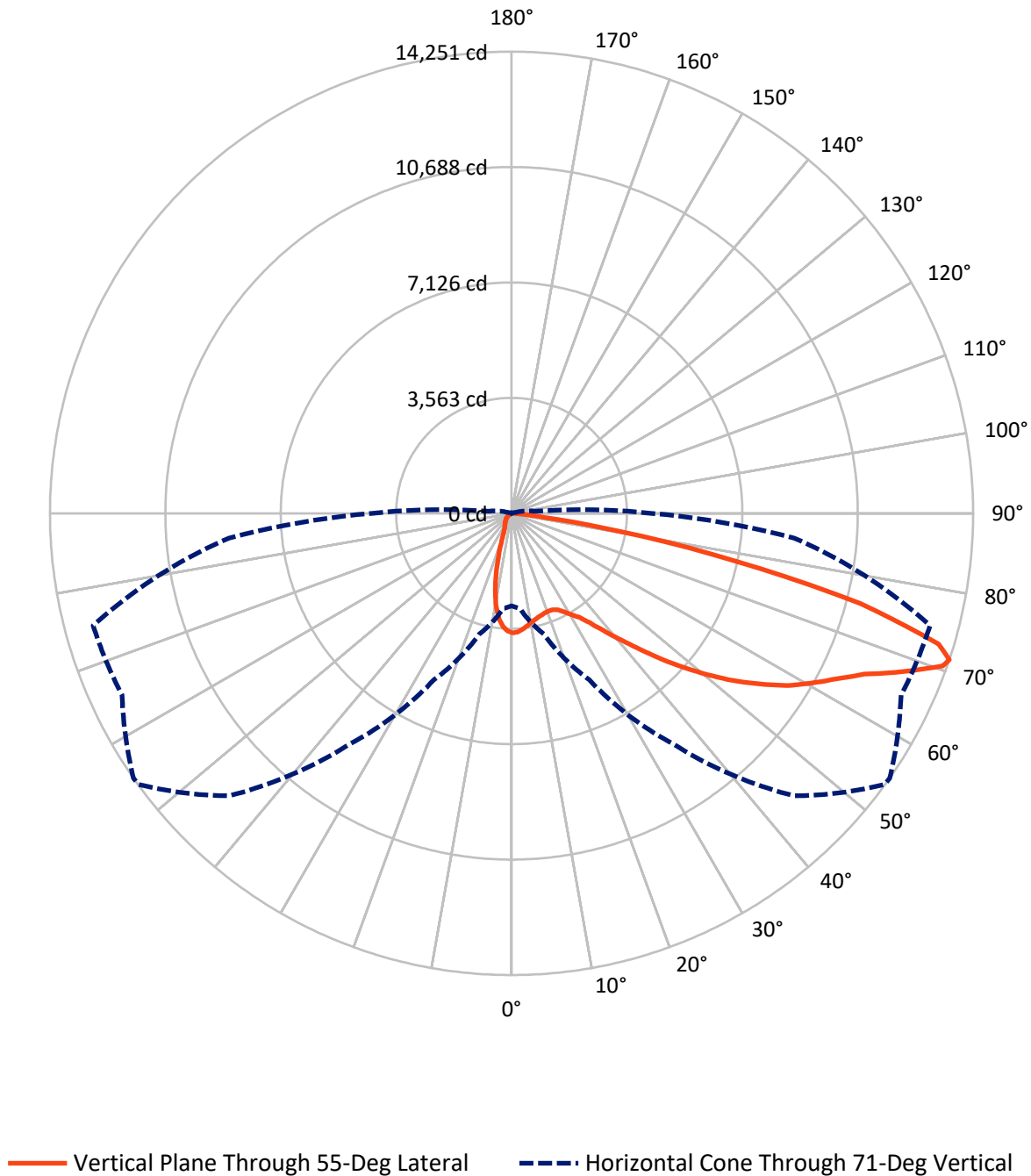
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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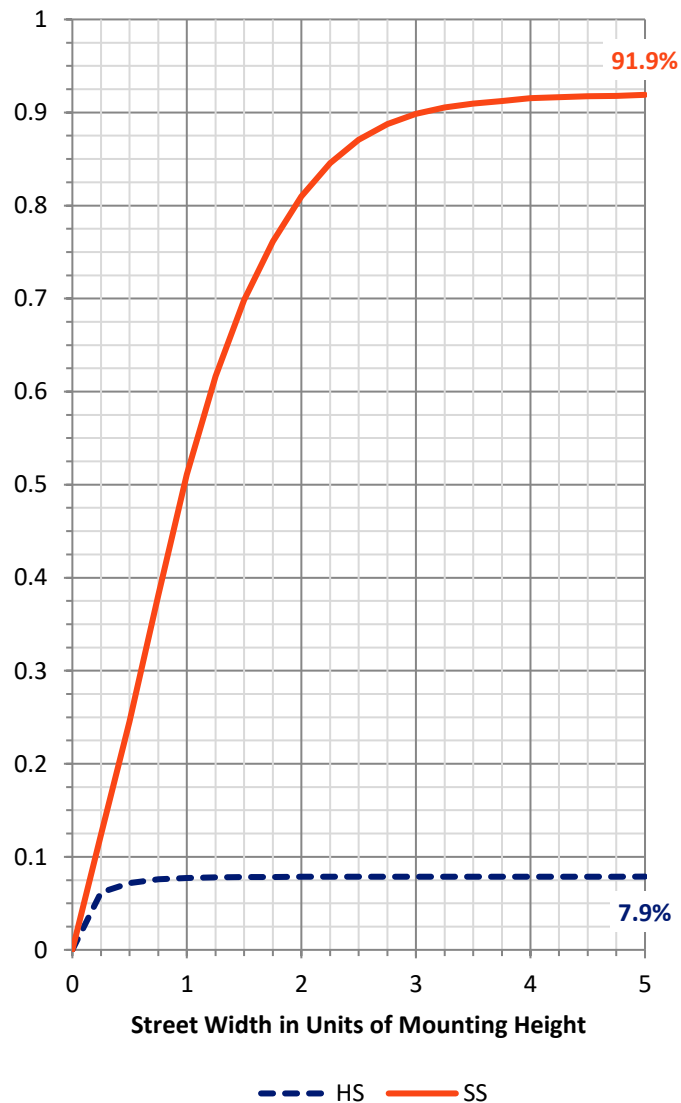
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.5	0.0	1514.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	17614.5	0.0	17614.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	19129.0	0.0	19129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.6
10°-20°	710.1	3.7
20°-30°	1141.2	6.0
30°-40°	1938.9	10.1
40°-50°	3009.4	15.7
50°-60°	4046.1	21.2
60°-70°	4949.7	25.9
70°-80°	2894.0	15.1
80°-90°	125.1	0.7
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°	19129.0	100.0
0°-180°	19129.0	100.0

Coefficient of Utilization



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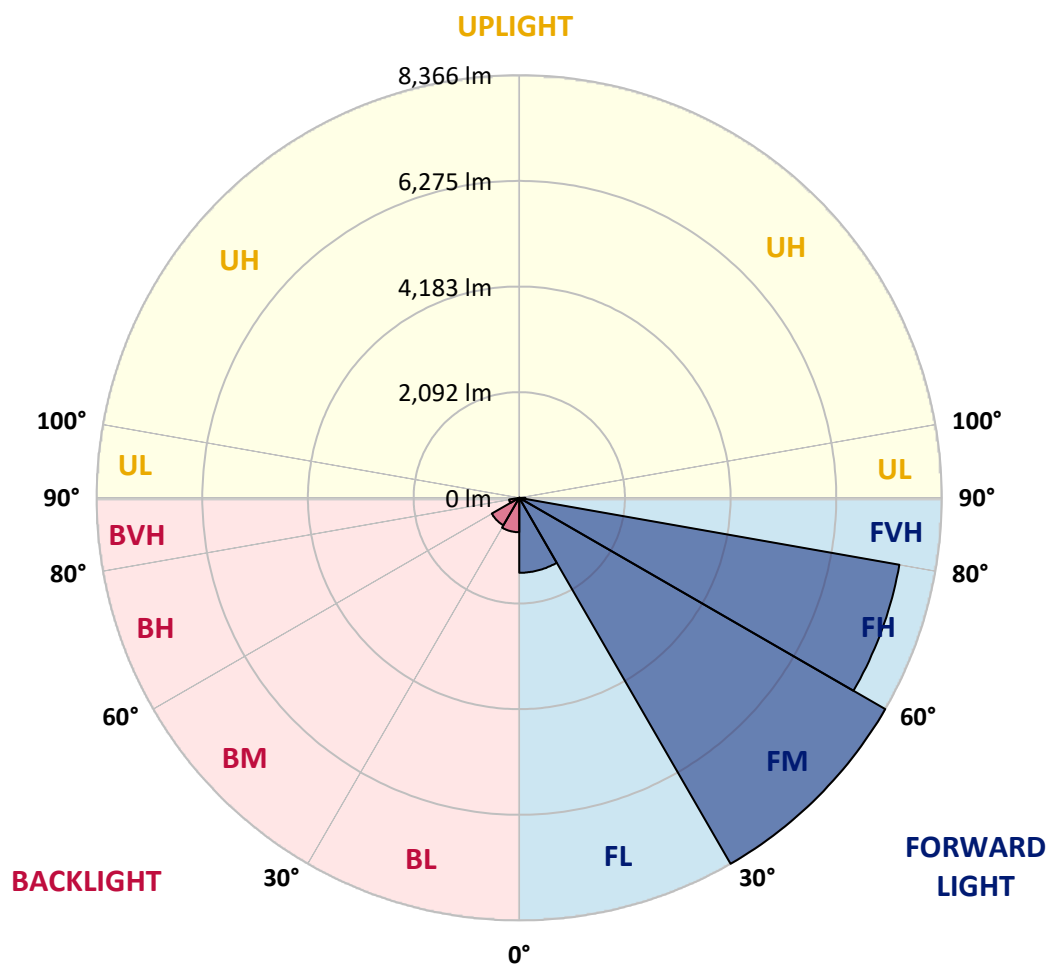
CATALOG NUMBER: GLEON-SA4D-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1484.1	7.8			
FM	(30°-60°)	8366.5	43.7			
FH	(60°-80°)	7640.8	39.9			G4/12000
FVH	(80°-90°)	123.1	0.6			G2/225
BL	(0°-30°)	681.7	3.6	B2/1000		
BM	(30°-60°)	627.9	3.3	B1/1000		
BH	(60°-80°)	202.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.0	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1
2.5°	3580.9	3585.2	3600.6	3607.5	3623.8	3651.3	3665.0	3665.9	3688.2	3696.8	3703.7
5°	3327.5	3353.3	3379.0	3406.5	3456.3	3522.5	3587.7	3593.8	3665.9	3719.2	3747.5
7.5°	3109.3	3132.5	3163.4	3207.2	3277.7	3381.6	3490.7	3503.6	3640.1	3761.2	3824.8
10°	2885.1	2904.0	2948.7	3013.1	3110.2	3249.3	3396.2	3417.7	3616.9	3817.9	3929.6
12.5°	2645.5	2656.7	2710.8	2803.5	2946.1	3123.1	3316.3	3344.7	3602.3	3883.2	4053.3
15°	2463.4	2468.6	2520.1	2616.3	2779.5	3009.7	3254.5	3288.8	3605.8	3961.4	4188.1
17.5°	2417.0	2419.6	2447.1	2513.2	2657.5	2908.3	3205.5	3247.6	3616.1	4037.8	4323.8
20°	2605.1	2587.1	2558.7	2548.4	2610.3	2847.3	3176.3	3223.6	3629.8	4105.7	4445.8
22.5°	3121.3	3068.1	2950.4	2793.2	2697.9	2851.6	3184.0	3231.3	3673.6	4189.0	4586.7
25°	3887.5	3813.6	3613.5	3304.3	3007.1	2975.3	3248.5	3296.6	3758.7	4288.6	4721.5
27.5°	4759.3	4686.3	4441.5	4000.0	3493.3	3220.1	3396.2	3440.9	3884.9	4377.1	4824.6
30°	5594.2	5573.6	5285.0	4783.4	4104.8	3616.9	3586.9	3624.7	3978.6	4430.4	4906.2
32.5°	6302.0	6269.3	6037.4	5549.5	4804.8	4093.7	3811.1	3822.2	4049.0	4499.1	5012.7
35°	6958.2	6917.8	6714.2	6253.0	5522.9	4676.0	4156.4	4140.0	4202.7	4637.4	5167.3
37.5°	7531.1	7568.0	7342.1	6903.2	6167.1	5281.5	4621.9	4572.9	4443.2	4862.4	5391.5
40°	8010.4	8010.4	7892.7	7526.8	6862.8	5907.7	5148.4	5084.0	4804.8	5209.4	5675.8
42.5°	8183.0	8219.9	8263.7	8056.7	7485.6	6558.8	5735.1	5668.1	5314.2	5701.6	6034.8
45°	8193.3	8251.7	8475.9	8475.0	8048.2	7205.5	6396.4	6364.7	5967.0	6333.7	6479.8
47.5°	8048.2	8121.2	8490.5	8700.1	8493.9	7807.7	7119.7	7080.1	6734.0	7108.5	6945.3
50°	7824.0	7904.7	8334.2	8788.6	8797.1	8331.6	7881.5	7822.3	7578.3	7994.0	7426.3
52.5°	7422.9	7579.2	8194.2	8809.2	8996.4	8784.3	8606.5	8580.7	8523.1	8847.0	7809.4
55°	6564.8	6738.3	7842.9	8816.0	9181.1	9185.4	9285.9	9292.7	9408.7	9644.0	8094.5
57.5°	6159.4	6257.3	7229.6	8848.7	9455.1	9640.6	9978.2	10031.4	10210.9	10400.8	8420.1
60°	5904.3	6020.2	6927.3	8804.0	9885.4	10237.6	10619.8	10637.8	10830.2	11181.5	8860.7
62.5°	5700.7	5814.9	6736.6	8632.2	10369.0	10955.6	11246.8	11248.5	11392.8	12111.7	9361.5
65°	5198.2	5294.4	6350.9	8439.0	10688.5	11666.0	11975.2	11964.0	12081.7	13092.6	9943.0
67.5°	4471.6	4545.4	5563.3	7706.3	10568.3	12311.9	13074.6	13037.7	12895.1	13940.4	10171.4
70°	3457.2	3483.8	4384.8	6422.2	9441.3	12560.1	14137.1	14118.2	13394.1	13788.4	9334.0
71°	2857.7	2945.3	3864.3	5668.1	8686.3	12330.8	14240.2	14251.3	13268.7	13374.4	8757.6
72.5°	1659.4	1734.2	2801.0	4353.0	7374.8	11373.9	13705.9	13786.7	12682.9	12165.0	7480.4
75°	355.6	380.5	1038.4	2107.0	4056.7	7971.7	10818.2	11105.9	10337.2	8275.8	4508.5
77.5°	247.4	267.1	444.9	956.0	1340.8	3939.0	6720.3	7044.9	6175.7	3110.2	1443.0
80°	195.8	218.2	347.0	472.4	362.5	1270.4	3148.0	3346.4	2059.7	694.0	243.1
82.5°	109.1	129.7	270.6	255.1	139.1	241.4	881.3	996.4	412.3	140.0	57.5
85°	31.8	38.7	174.4	185.5	59.3	46.4	150.3	186.4	78.2	36.9	25.8
87.5°	0.0	0.0	84.2	71.3	17.2	6.9	13.7	15.5	15.5	15.5	17.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1	3689.1
2.5°	3703.7	3709.7	3688.2	3659.9	3629.8	3592.9	3554.2	3524.2	3523.3	3508.7	3494.1
5°	3749.2	3745.8	3686.5	3596.3	3489.8	3379.0	3273.4	3154.0	3114.5	3065.5	3049.2
7.5°	3833.4	3809.3	3683.9	3486.4	3252.8	3020.9	2781.2	2539.9	2436.8	2344.0	2327.7
10°	3939.0	3893.5	3667.6	3321.5	2892.9	2465.1	2103.5	1775.4	1631.1	1520.3	1515.1
12.5°	4049.0	3979.4	3622.1	3072.4	2421.3	1820.1	1403.5	1080.5	960.3	883.0	889.8
15°	4164.1	4060.2	3524.2	2736.5	1884.5	1235.1	862.4	672.5	624.4	604.7	609.8
17.5°	4281.8	4116.0	3387.6	2332.0	1354.5	797.1	597.0	543.7	543.7	548.0	549.7
20°	4384.0	4146.0	3186.6	1878.5	918.2	580.6	522.2	514.5	518.8	525.7	526.5
22.5°	4485.3	4147.8	2924.7	1418.9	642.5	508.5	497.3	493.9	496.5	504.2	505.0
25°	4567.8	4127.1	2596.5	1009.2	512.8	479.3	474.1	472.4	474.1	483.6	483.6
27.5°	4601.3	4052.4	2196.3	709.5	459.5	446.6	444.9	446.6	449.2	456.1	456.9
30°	4604.7	3921.9	1759.9	513.6	416.6	402.8	406.3	412.3	409.7	408.0	409.7
32.5°	4613.3	3770.7	1334.8	422.6	380.5	359.0	354.7	354.7	344.4	338.4	335.0
35°	4641.6	3592.9	968.0	379.6	343.6	318.7	302.3	283.4	263.7	253.4	250.8
37.5°	4686.3	3406.5	693.2	351.3	310.9	282.6	251.7	218.2	189.8	182.1	182.1
40°	4767.9	3214.1	512.8	329.0	285.2	249.9	203.6	159.8	134.0	129.7	129.7
42.5°	4896.7	3011.4	408.8	309.2	262.8	216.4	155.5	116.0	97.1	94.5	93.6
45°	5030.7	2788.1	357.3	290.3	238.8	177.8	115.1	85.9	74.7	72.1	72.1
47.5°	5164.7	2550.2	332.4	272.3	215.6	138.3	85.9	67.9	62.7	62.7	63.6
50°	5278.1	2301.9	314.4	252.5	185.5	104.8	67.9	57.5	55.8	59.3	60.1
52.5°	5306.5	2058.0	292.0	227.6	148.6	79.9	55.8	50.7	50.7	50.7	50.7
55°	5289.3	1869.0	262.8	196.7	109.9	63.6	48.1	44.7	43.8	43.8	43.8
57.5°	5347.7	1757.4	210.4	152.9	79.0	51.5	42.1	39.5	37.8	36.9	36.9
60°	5465.4	1684.4	150.3	109.9	59.3	42.9	36.1	33.5	30.9	29.2	29.2
62.5°	5621.7	1620.8	111.7	81.6	45.5	34.4	30.1	27.5	24.0	22.3	22.3
65°	5741.9	1507.4	85.0	61.0	34.4	27.5	23.2	22.3	17.2	15.5	14.6
67.5°	5558.1	1258.3	68.7	44.7	25.8	21.5	18.0	17.2	10.3	8.6	8.6
70°	4767.1	876.1	55.0	32.6	18.9	17.2	14.6	11.2	7.7	6.9	6.9
71°	4323.0	731.8	49.8	27.5	16.3	16.3	13.7	9.4	6.9	6.0	6.0
72.5°	3591.2	519.7	42.1	21.5	14.6	17.2	14.6	8.6	6.9	6.0	5.2
75°	2084.6	217.3	29.2	14.6	11.2	20.6	18.9	7.7	5.2	4.3	4.3
77.5°	627.0	79.9	16.3	9.4	8.6	18.0	21.5	6.9	2.6	0.9	0.9
80°	114.2	34.4	10.3	6.0	6.0	11.2	16.3	3.4	0.0	0.0	0.0
82.5°	40.4	17.2	6.0	3.4	2.6	5.2	7.7	0.0	0.0	0.0	0.0
85°	23.2	12.0	3.4	1.7	0.0	0.9	1.7	0.0	0.0	0.0	0.0
87.5°	15.5	3.4	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
 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

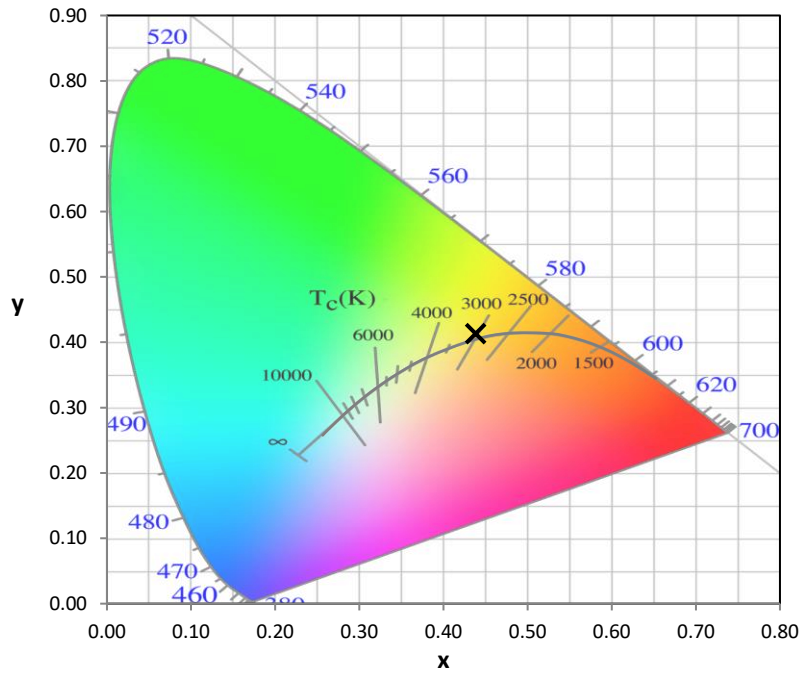
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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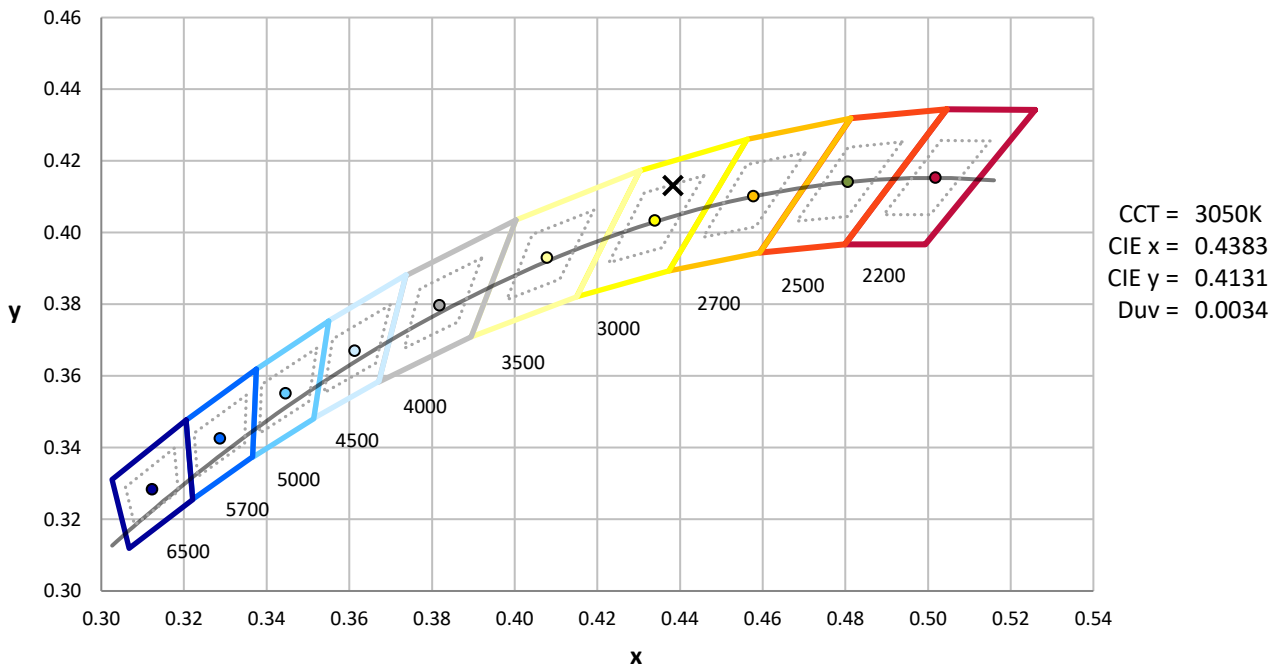
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

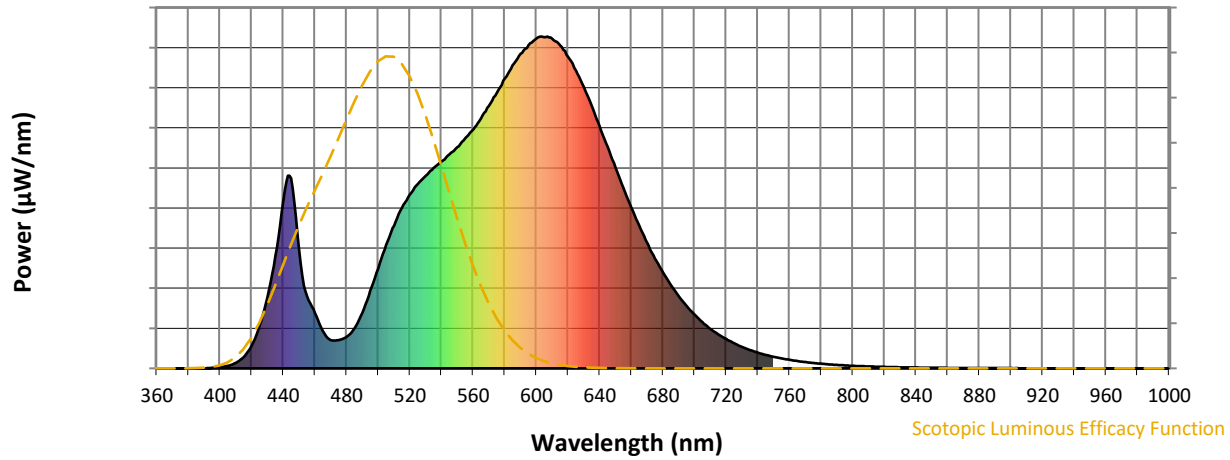


Photopic Lumens: NR

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



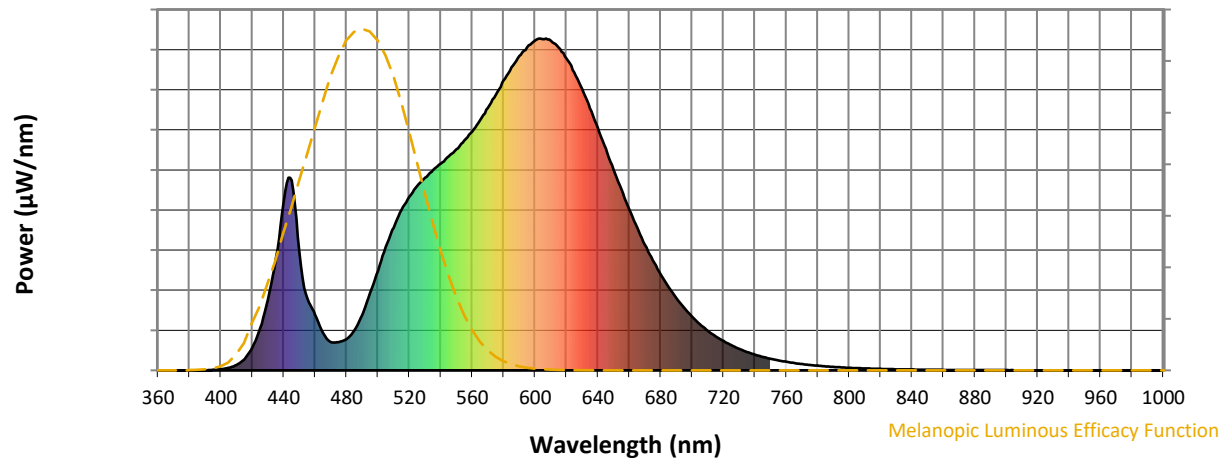
Scotopic Lumens: NR

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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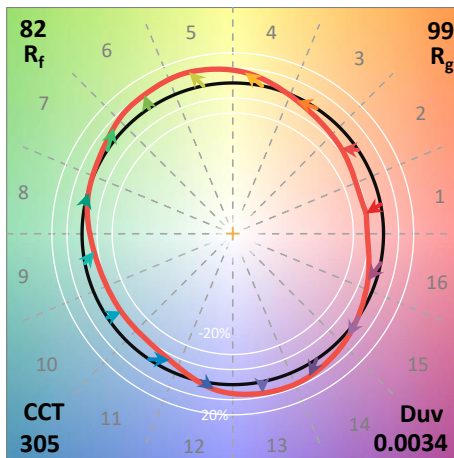
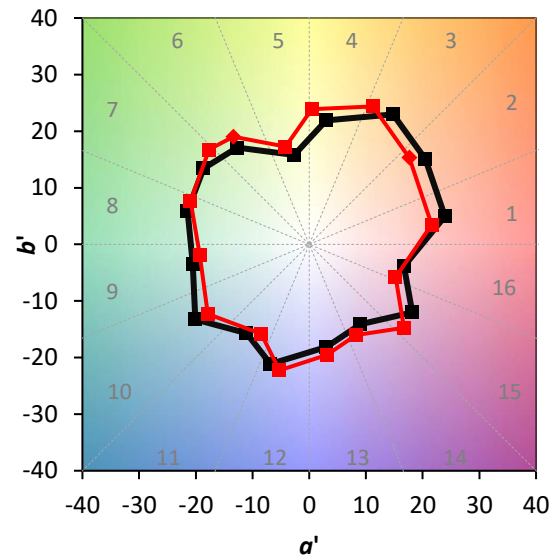
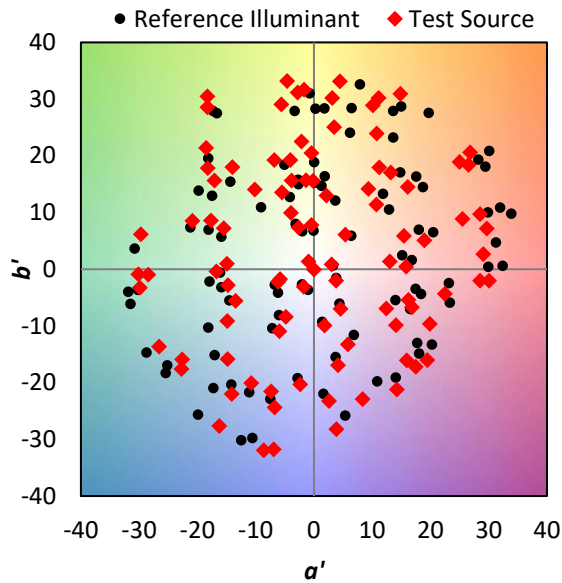
TM-30-18

Summary

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

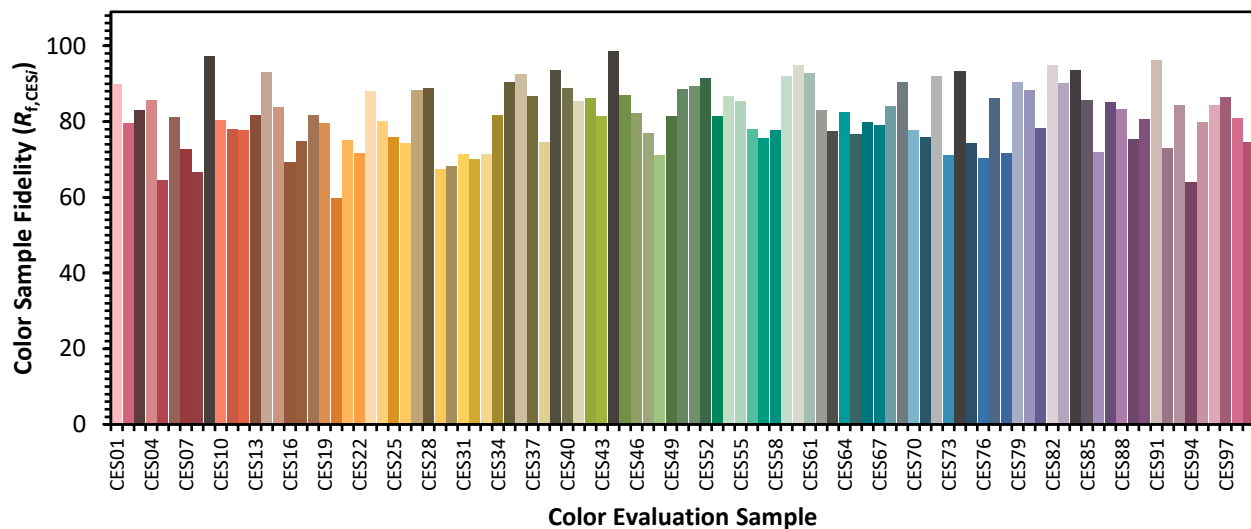


Color Vector Graphics

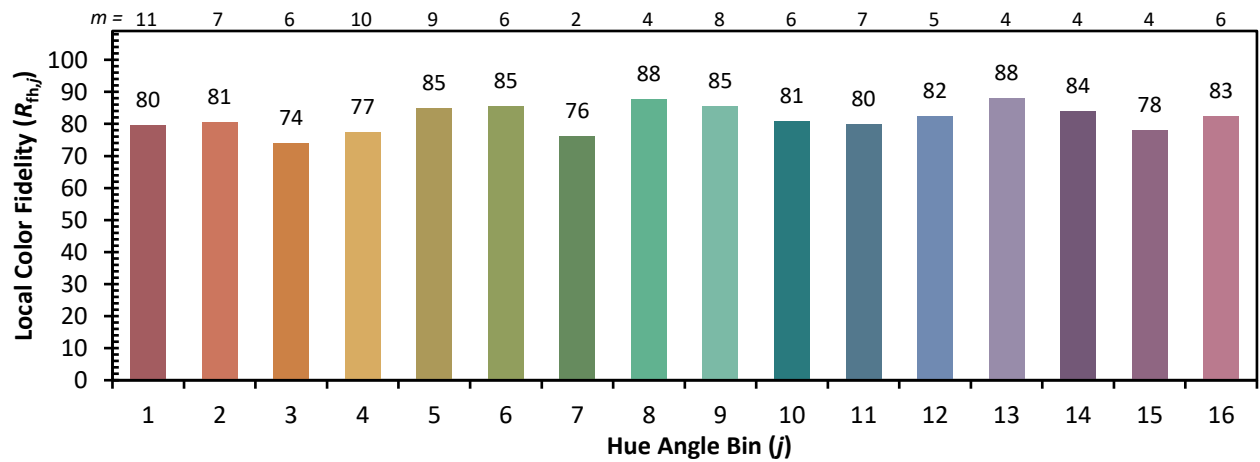
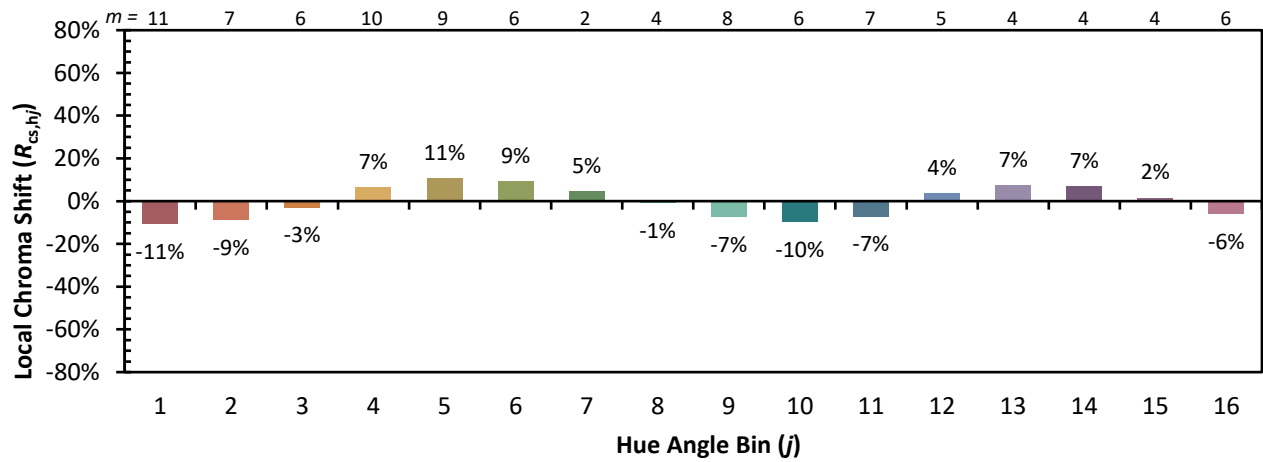


Individual Sample Fidelity Index ($R_{f,i}$)

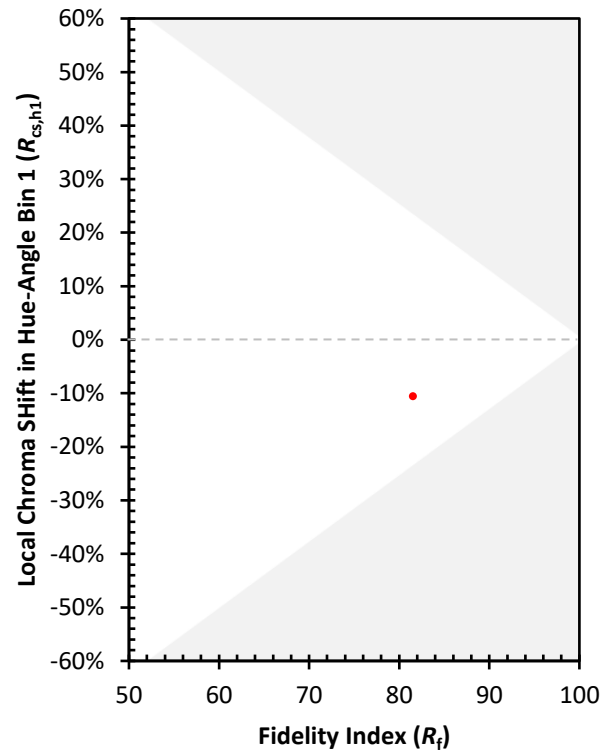
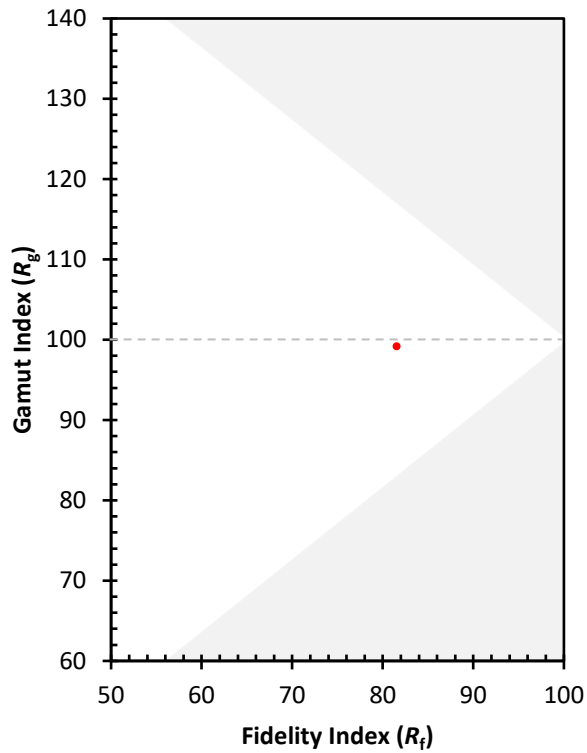
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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