

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: P319191

Luminaire Tested: **GLEON-SA7A-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26010 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

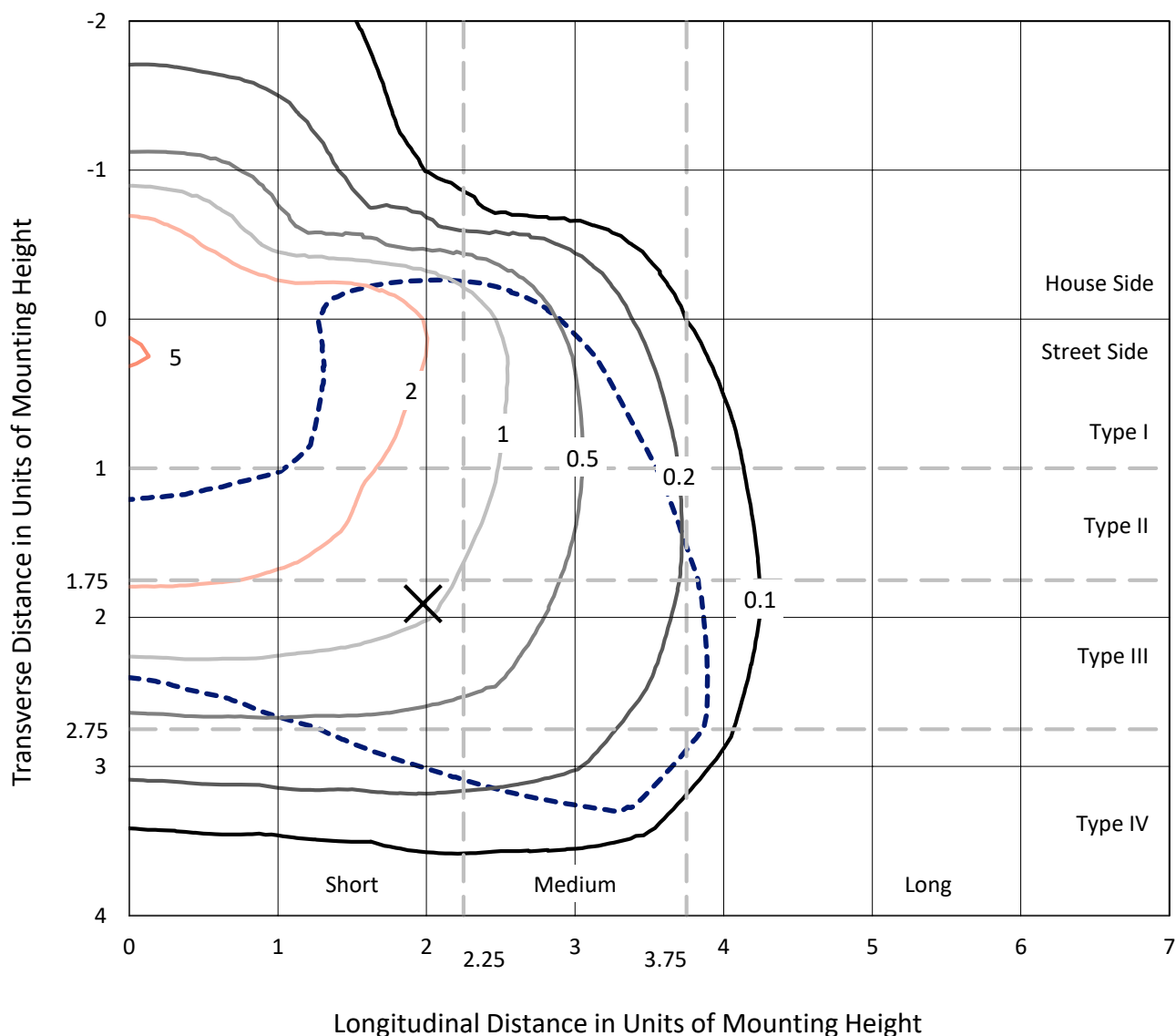
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

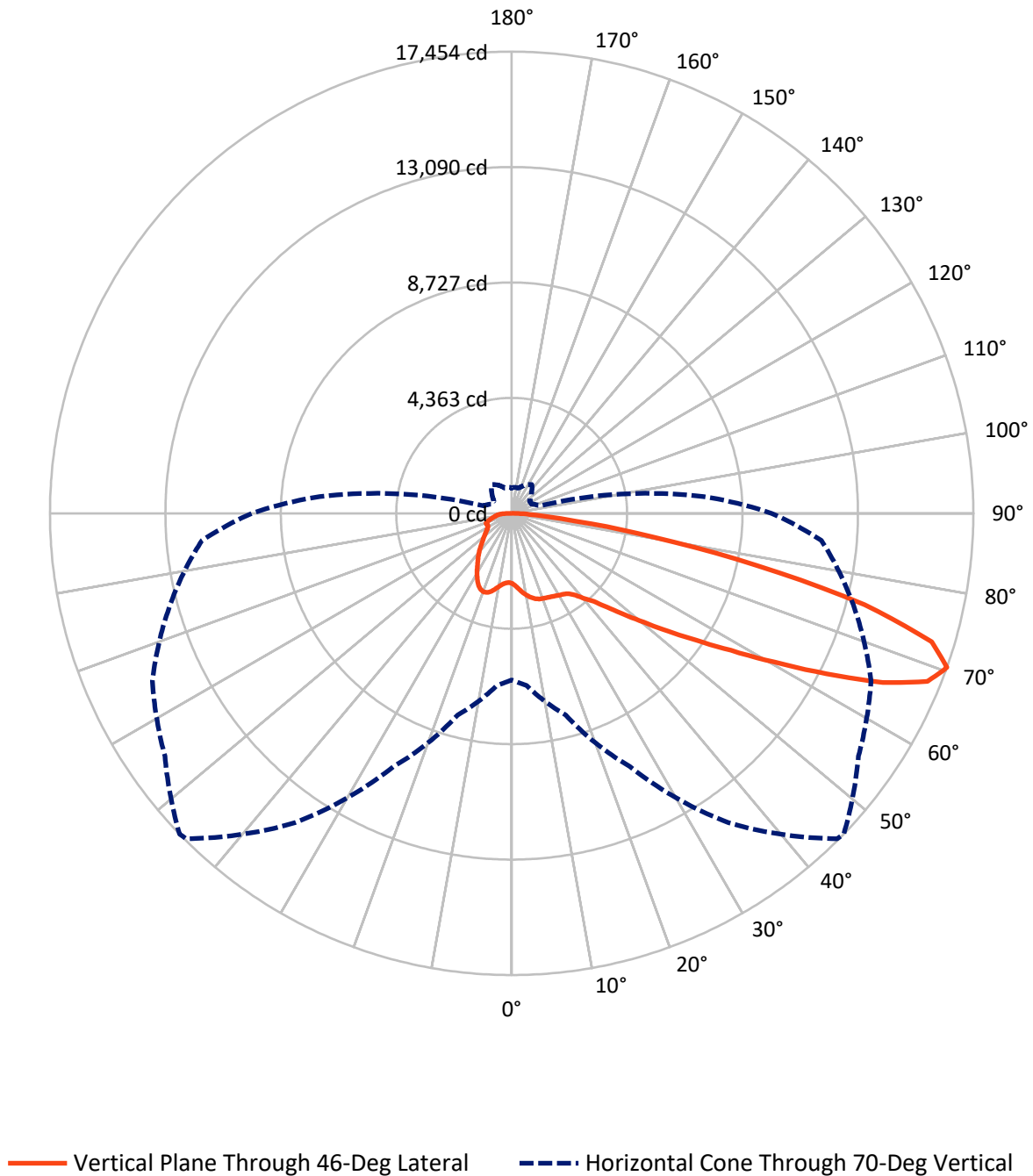
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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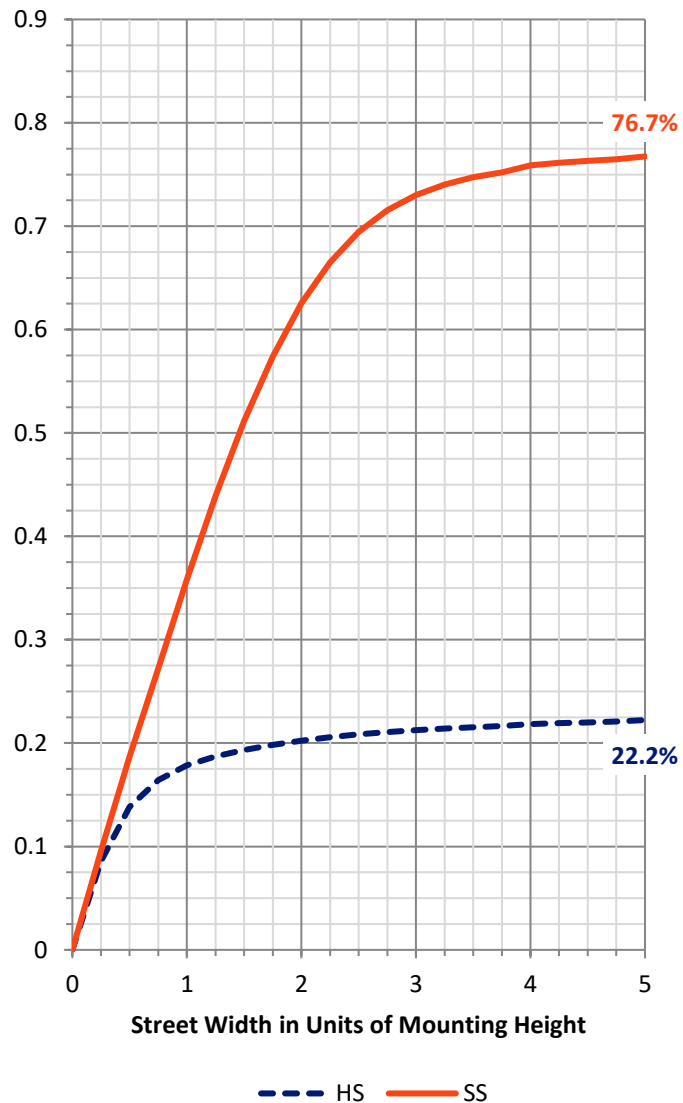
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5961.4	0.0	5961.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20048.6	0.0	20048.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	26010.0	0.0	26010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	1.0
10°-20°	900.0	3.5
20°-30°	1500.7	5.8
30°-40°	2129.6	8.2
40°-50°	3132.5	12.0
50°-60°	5304.8	20.4
60°-70°	7530.1	29.0
70°-80°	4574.6	17.6
80°-90°	667.6	2.6
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°	26010.0	100.0
0°-180°	26010.0	100.0

Coefficient of Utilization



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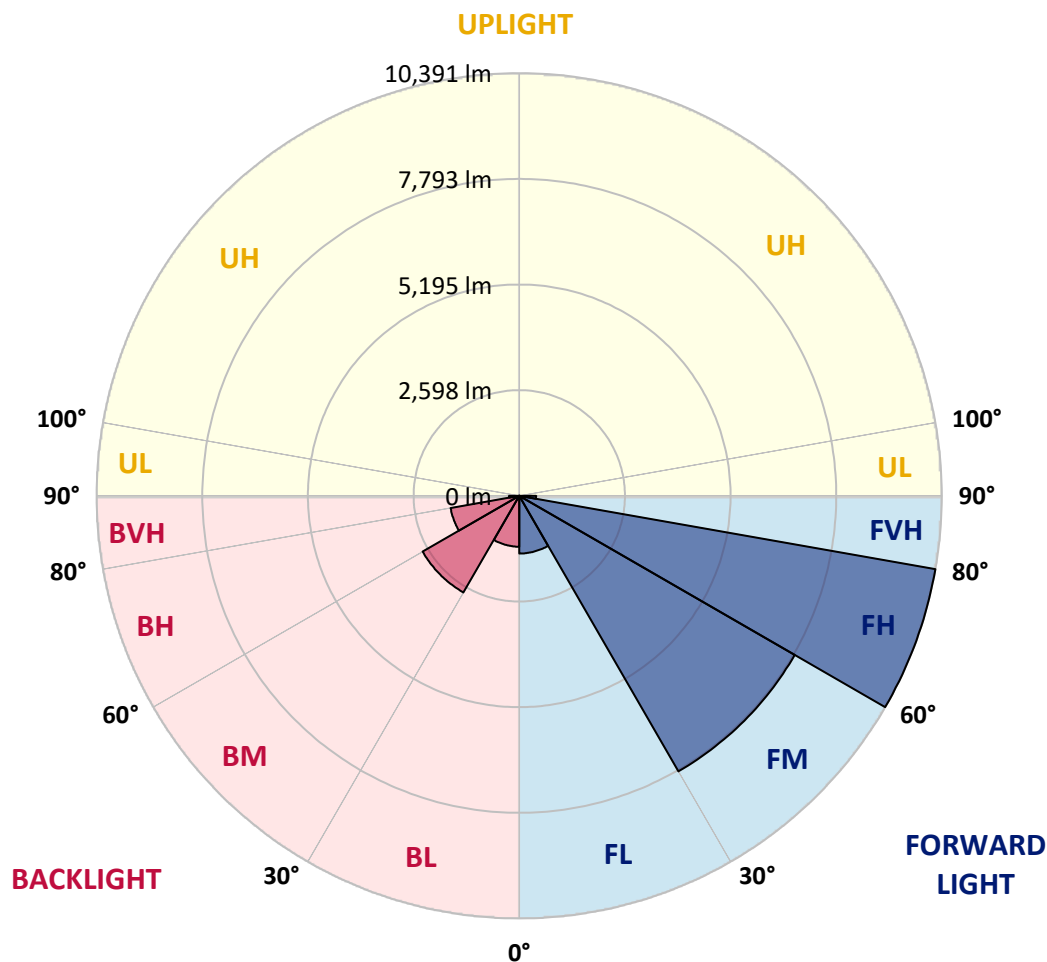
CATALOG NUMBER: GLEON-SA7A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1419.2	5.5			
FM	(30°-60°)	7822.7	30.1			
FH	(60°-80°)	10390.8	39.9			G4/12000
FVH	(80°-90°)	415.9	1.6			G3/500
BL	(0°-30°)	1251.6	4.8	B3/2500		
BM	(30°-60°)	2744.2	10.6	B3/5000		
BH	(60°-80°)	1713.9	6.6	B3/2500		G3/2500
BVH	(80°-90°)	251.7	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9
2.5°	2782.5	2784.3	2787.9	2779.0	2754.1	2746.9	2744.3	2718.4	2701.5	2676.6	2655.3
5°	3005.1	3006.9	3001.5	2976.6	2921.4	2880.5	2876.9	2818.1	2764.7	2707.8	2665.0
7.5°	3237.4	3240.1	3223.2	3176.0	3098.5	3027.3	3022.9	2942.8	2861.8	2775.4	2711.3
10°	3443.0	3432.3	3404.7	3338.9	3247.2	3160.0	3156.4	3072.7	2979.3	2875.1	2789.7
12.5°	3580.1	3571.2	3535.6	3455.5	3354.9	3274.8	3267.7	3190.2	3099.4	2985.5	2883.1
15°	3655.8	3662.0	3613.9	3523.1	3425.2	3357.6	3351.3	3296.1	3215.1	3100.3	2982.8
17.5°	3665.5	3670.9	3624.6	3534.7	3454.6	3408.3	3405.6	3369.1	3310.4	3200.0	3077.2
20°	3608.6	3612.1	3573.9	3500.0	3447.5	3433.2	3432.3	3416.3	3372.7	3274.8	3155.5
22.5°	3525.8	3528.5	3500.9	3447.5	3429.7	3451.9	3458.1	3451.9	3420.8	3329.1	3216.9
25°	3505.3	3503.5	3475.1	3420.8	3435.9	3483.1	3491.1	3493.8	3472.4	3392.3	3295.3
27.5°	3604.1	3597.9	3543.6	3456.4	3466.2	3523.1	3533.8	3559.6	3546.3	3475.9	3384.3
30°	3889.9	3879.2	3767.9	3591.7	3543.6	3573.0	3586.3	3627.3	3629.9	3571.2	3502.7
32.5°	4372.3	4359.0	4159.6	3844.5	3674.4	3623.7	3636.2	3697.6	3730.5	3685.1	3611.2
35°	4982.0	4966.9	4705.2	4274.4	3893.4	3720.7	3729.6	3778.6	3844.5	3780.4	3682.5
37.5°	5617.6	5581.1	5329.2	4780.0	4241.5	3928.1	3928.1	3934.4	3965.5	3832.0	3766.1
40°	6249.6	6213.1	5985.2	5374.6	4691.9	4254.8	4234.3	4096.4	4071.4	3956.6	3934.4
42.5°	6837.1	6826.4	6692.0	6046.6	5220.6	4576.1	4547.7	4313.6	4318.9	4247.7	4248.6
45°	7461.9	7461.9	7352.5	6724.9	5836.6	5092.4	5063.9	4719.5	4772.9	4739.9	4819.2
47.5°	7972.0	7988.0	7972.9	7431.7	6553.1	5748.4	5696.8	5282.0	5431.6	5544.6	5775.1
50°	8492.7	8517.6	8520.3	8207.0	7419.2	6528.2	6469.4	6028.8	6362.6	6686.6	7139.7
52.5°	9248.4	9304.5	9081.1	8980.5	8480.2	7453.9	7396.1	6989.3	7546.5	8001.4	8782.0
55°	9949.0	9900.0	9740.7	9803.0	9616.0	8507.8	8464.2	8107.3	8865.7	9456.7	10470.6
57.5°	10328.2	10324.6	10484.8	10751.9	10840.9	9807.4	9770.9	9423.8	10353.1	10797.2	12055.9
60°	10773.2	10779.4	11176.4	11782.6	12149.4	11425.7	11409.7	11146.2	11797.8	12048.8	13299.4
62.5°	10835.5	10947.7	11631.3	12674.5	13374.2	13316.3	13351.9	12697.7	13090.2	13047.5	14227.8
65°	10119.0	10266.7	11504.0	12944.2	14591.9	15384.1	15417.0	14258.1	14109.4	13901.1	14559.8
67.5°	8650.3	8869.2	10213.3	12357.6	14993.3	16912.4	16958.7	15467.7	14955.0	14190.4	13760.5
70°	6295.0	6538.0	7891.0	10554.2	14277.6	17401.1	17453.6	16002.7	14987.1	13367.0	11747.0
72.5°	3802.6	3993.1	5108.4	7769.9	12050.5	16511.0	16604.4	15324.4	13683.0	11322.4	8674.3
75°	1669.9	1794.5	2470.1	4477.3	8627.1	13660.8	13777.4	13116.9	11117.7	8228.3	5127.1
77.5°	711.2	746.8	1013.0	1944.9	4877.0	9334.8	9495.0	9584.0	7542.9	4477.3	2166.6
80°	443.3	457.5	573.2	880.3	2282.3	5242.9	5415.5	5639.0	3745.7	1645.8	756.6
82.5°	269.7	285.7	381.0	532.3	1188.3	2376.6	2459.4	2617.0	1453.6	711.2	391.7
85°	162.0	173.6	233.2	336.5	676.5	934.6	933.7	1032.5	684.5	457.5	206.5
87.5°	77.4	86.3	124.6	174.5	340.9	350.7	328.5	372.1	415.7	300.0	104.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9
2.5°	2648.1	2644.6	2633.0	2624.1	2622.3	2617.0	2612.5	2615.2	2618.8	2619.6	2619.6
5°	2647.2	2637.4	2622.3	2616.1	2624.1	2634.8	2648.1	2665.9	2676.6	2684.6	2690.0
7.5°	2690.0	2671.3	2654.4	2650.8	2666.8	2695.3	2725.6	2763.0	2788.8	2806.6	2810.1
10°	2761.2	2738.0	2721.1	2724.7	2753.2	2794.1	2836.8	2884.9	2924.1	2948.1	2949.9
12.5°	2843.1	2820.8	2804.8	2819.9	2867.1	2916.9	2961.5	3003.3	3038.9	3062.9	3062.9
15°	2937.4	2921.4	2902.7	2937.4	3001.5	3046.0	3064.7	3085.2	3104.8	3122.6	3119.0
17.5°	3028.2	3013.1	3003.3	3044.2	3111.0	3131.5	3119.0	3103.9	3103.9	3113.7	3115.4
20°	3106.5	3093.2	3099.4	3139.5	3174.2	3152.8	3106.5	3058.5	3038.9	3044.2	3049.6
22.5°	3175.1	3168.9	3187.5	3206.2	3181.3	3106.5	3021.1	2956.1	2932.1	2930.3	2932.1
25°	3255.2	3254.3	3277.4	3243.6	3133.2	2995.3	2880.5	2817.3	2803.9	2814.6	2832.4
27.5°	3354.9	3364.7	3376.3	3252.5	3035.3	2827.0	2710.4	2666.8	2680.2	2706.0	2722.9
30°	3482.2	3508.9	3484.0	3230.3	2894.7	2634.8	2523.5	2511.0	2547.5	2584.0	2601.8
32.5°	3605.9	3647.7	3587.2	3172.4	2713.1	2430.9	2344.6	2341.0	2385.5	2421.1	2446.1
35°	3705.6	3788.4	3664.7	3057.6	2503.0	2243.1	2179.9	2155.9	2171.9	2213.7	2242.2
37.5°	3835.6	3973.5	3718.1	2882.2	2275.2	2088.2	2014.4	1959.2	1944.9	1961.8	1976.1
40°	4073.2	4255.7	3743.0	2637.4	2052.6	1933.4	1858.6	1777.6	1721.5	1680.6	1681.5
42.5°	4461.3	4623.3	3727.0	2340.1	1847.0	1782.0	1697.5	1604.0	1513.2	1420.6	1413.5
45°	5091.5	5169.9	3678.9	2025.0	1666.3	1623.6	1544.4	1450.9	1329.9	1224.8	1215.0
47.5°	6100.0	5926.5	3604.1	1750.0	1507.0	1489.2	1416.2	1308.5	1180.3	1095.7	1088.6
50°	7475.3	7018.7	3567.6	1531.0	1366.3	1371.7	1312.0	1198.1	1077.1	1014.7	1007.6
52.5°	9120.2	8290.6	3638.0	1361.9	1253.3	1272.0	1227.5	1120.7	1019.2	970.2	963.1
55°	10826.6	9608.0	3713.6	1239.1	1146.5	1183.0	1167.8	1079.7	988.0	942.6	936.4
57.5°	12287.3	10591.6	3562.3	1139.4	1051.2	1108.2	1121.6	1053.9	972.0	931.1	924.0
60°	13206.8	10987.7	3165.3	1045.9	975.6	1048.6	1094.9	1046.8	978.3	974.7	969.3
62.5°	13643.0	10953.0	2569.8	972.0	928.4	1022.8	1114.4	1086.8	1049.5	1081.5	1084.2
65°	13447.2	10429.6	1913.8	923.1	894.6	1032.5	1173.2	1162.5	1069.9	1102.0	1106.4
67.5°	12158.3	9180.8	1417.1	880.3	857.2	1060.1	1280.0	1187.4	1029.9	1053.0	1038.8
70°	9827.0	7278.6	1093.1	832.3	818.9	1056.6	1328.1	1172.3	986.3	991.6	953.3
72.5°	6776.5	4963.4	889.2	787.8	763.7	963.1	1294.2	1134.9	949.8	908.8	858.1
75°	3685.1	2664.2	755.7	741.5	666.7	845.6	1231.9	1108.2	916.8	862.5	834.0
77.5°	1450.0	1105.5	656.0	678.3	583.0	746.8	1162.5	1057.5	871.4	800.2	786.0
80°	591.9	564.3	543.9	586.6	501.1	653.4	1078.8	997.8	817.1	742.4	713.9
82.5°	335.6	350.7	422.8	462.9	406.8	601.7	1038.8	949.8	752.2	664.9	631.1
85°	171.8	205.6	294.6	332.0	299.1	511.8	956.9	831.4	603.5	509.2	511.8
87.5°	82.8	114.8	186.0	208.3	194.0	370.3	714.8	602.6	470.0	372.1	360.5
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 [^] /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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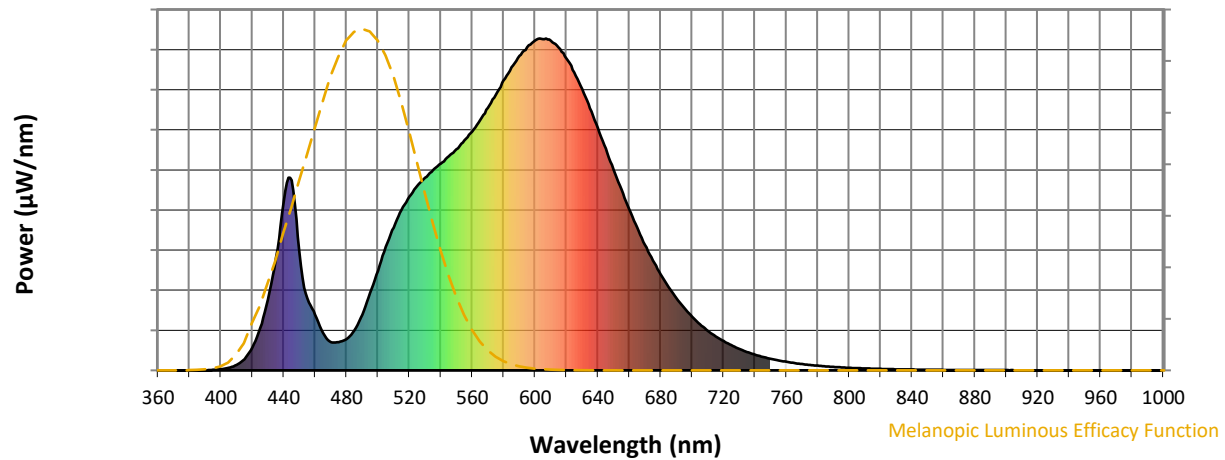
Scotopic Flux vs. Wavelength


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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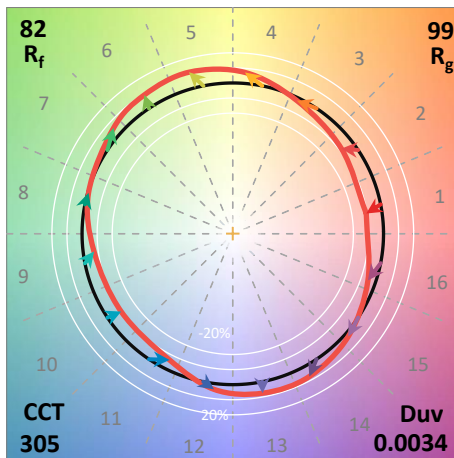
TM-30-18

Summary

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

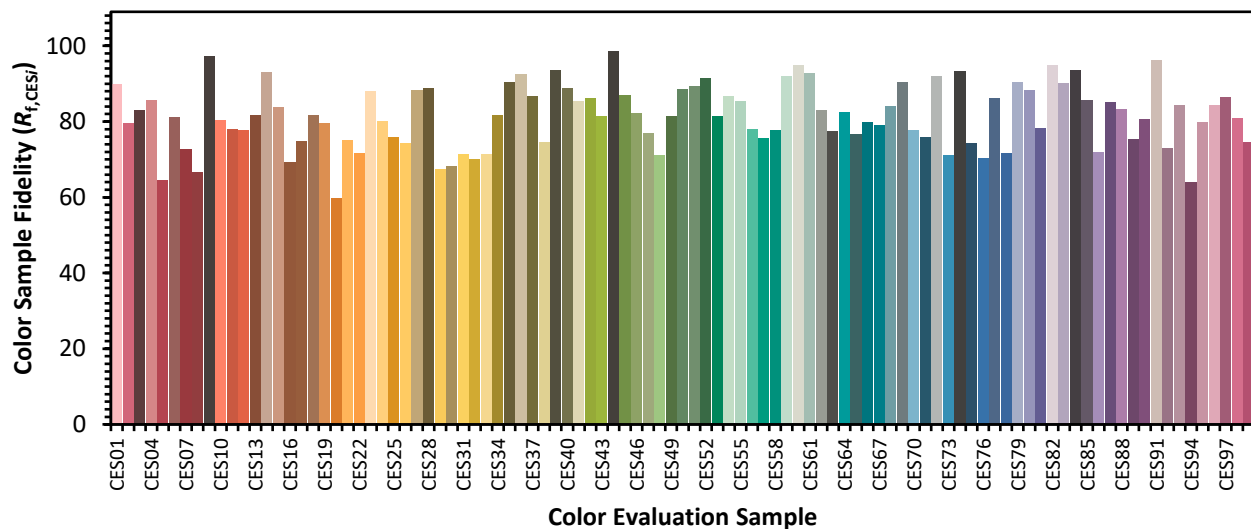


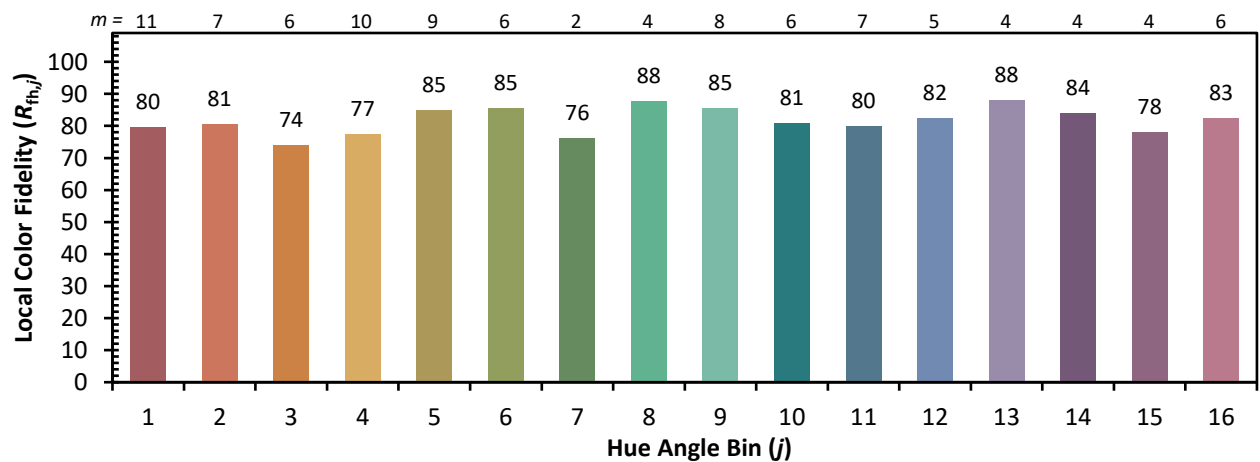
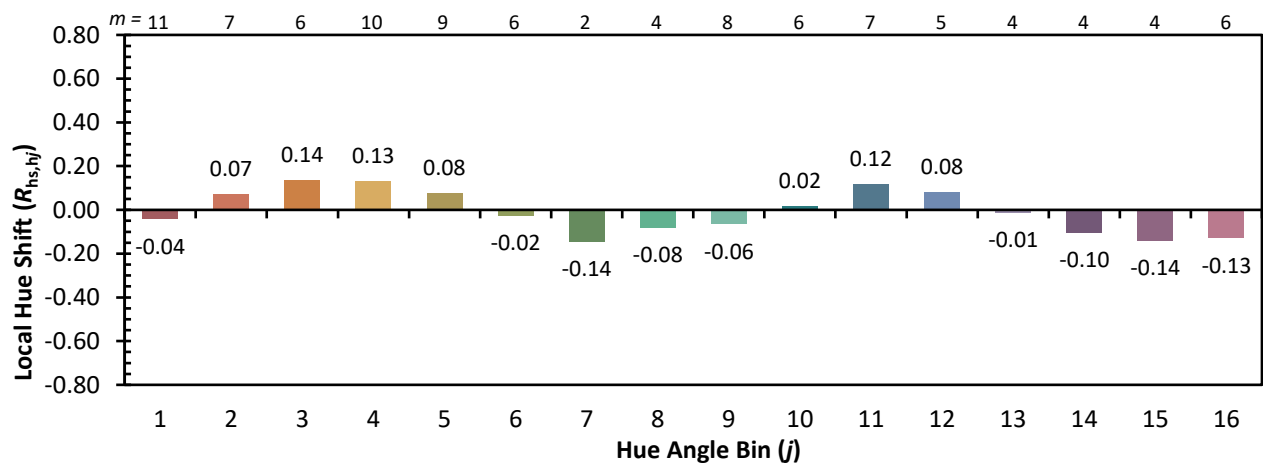
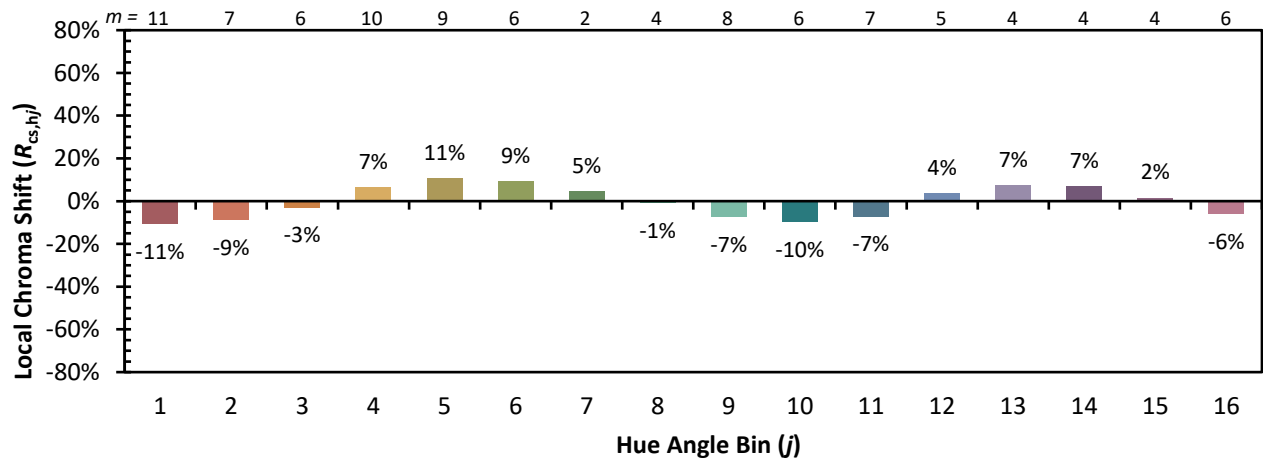
Color Vector Graphics



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)