

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: P318551

Luminaire Tested: **GLEON-SA7A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26199 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

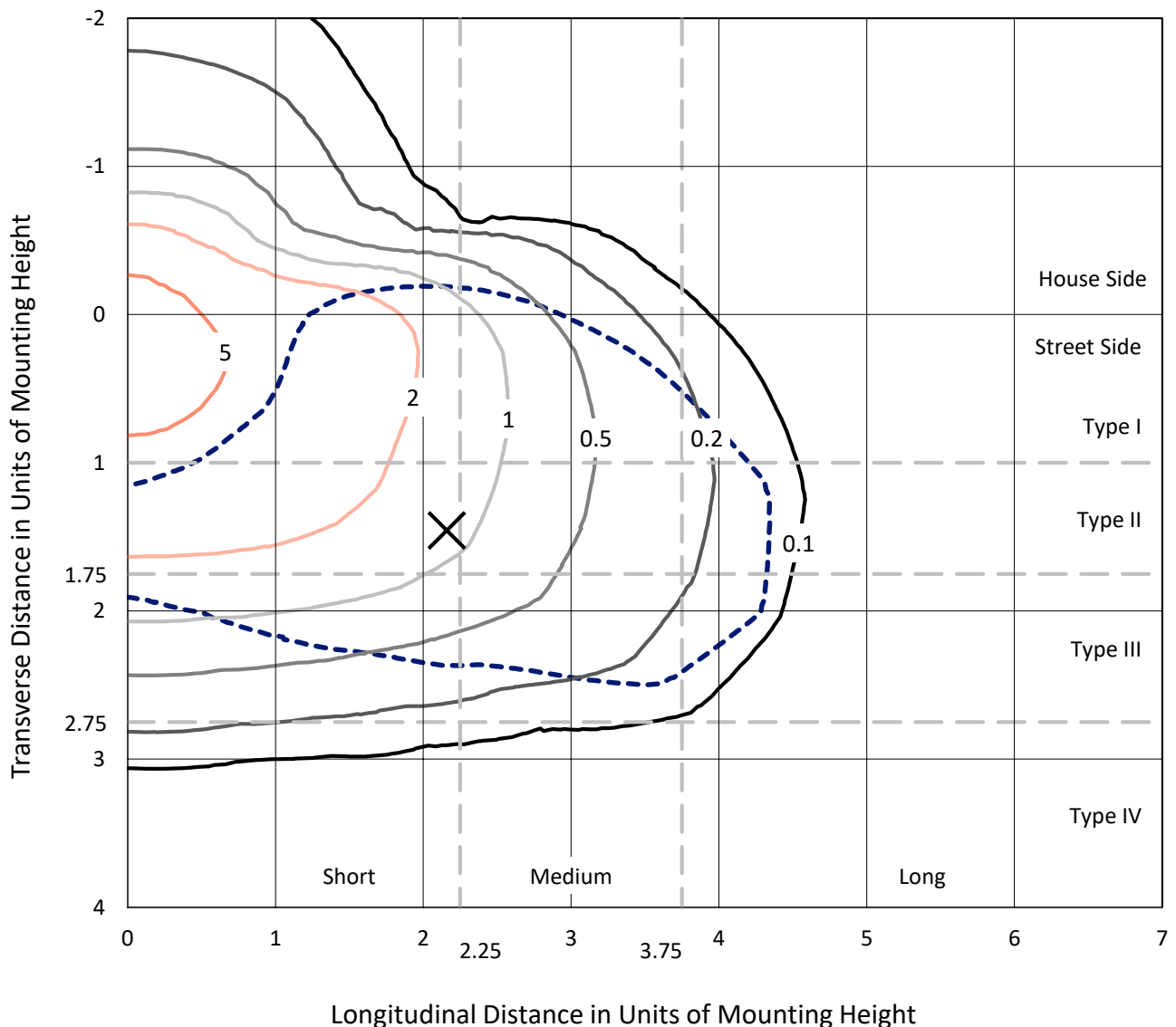
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

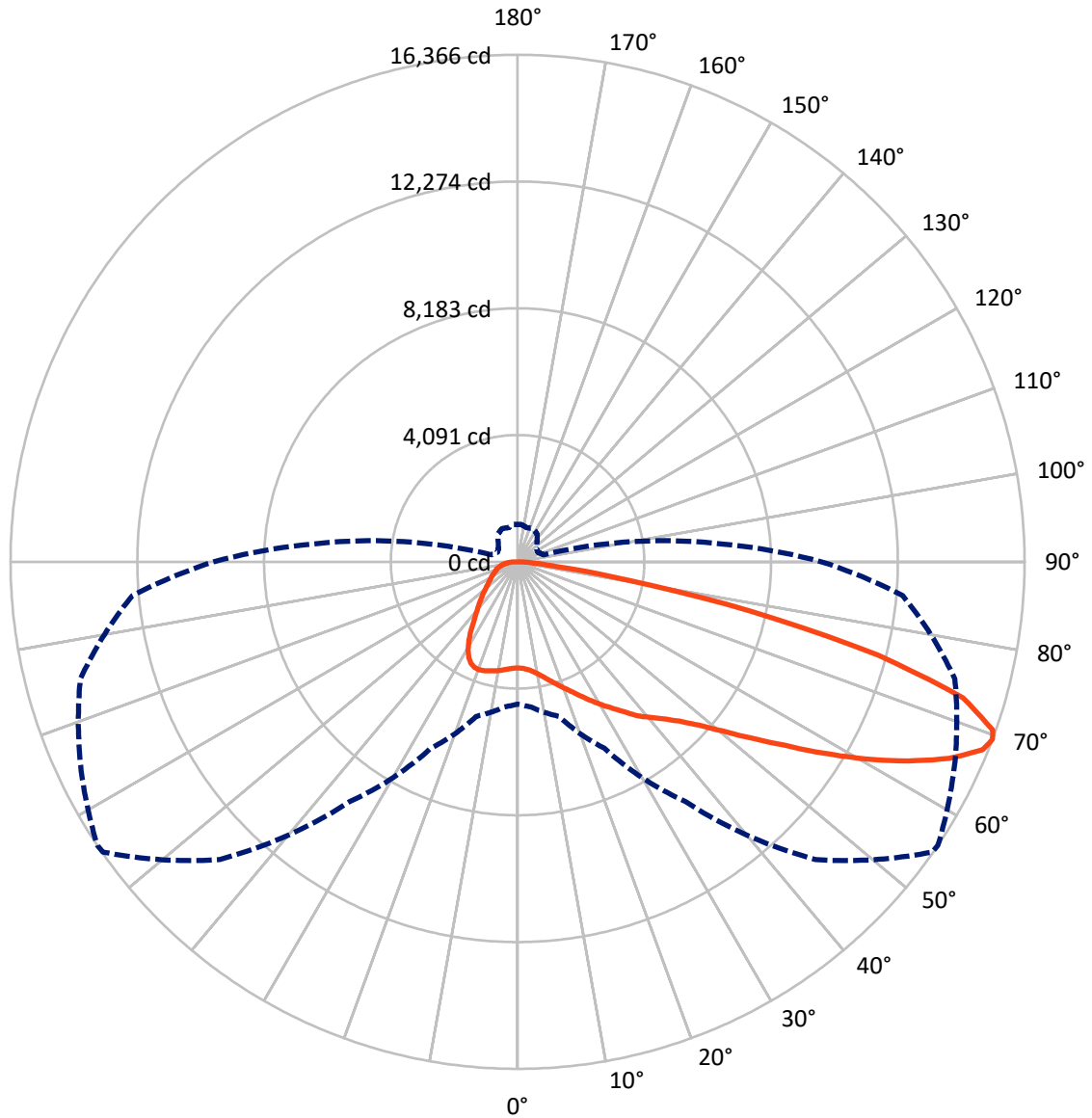
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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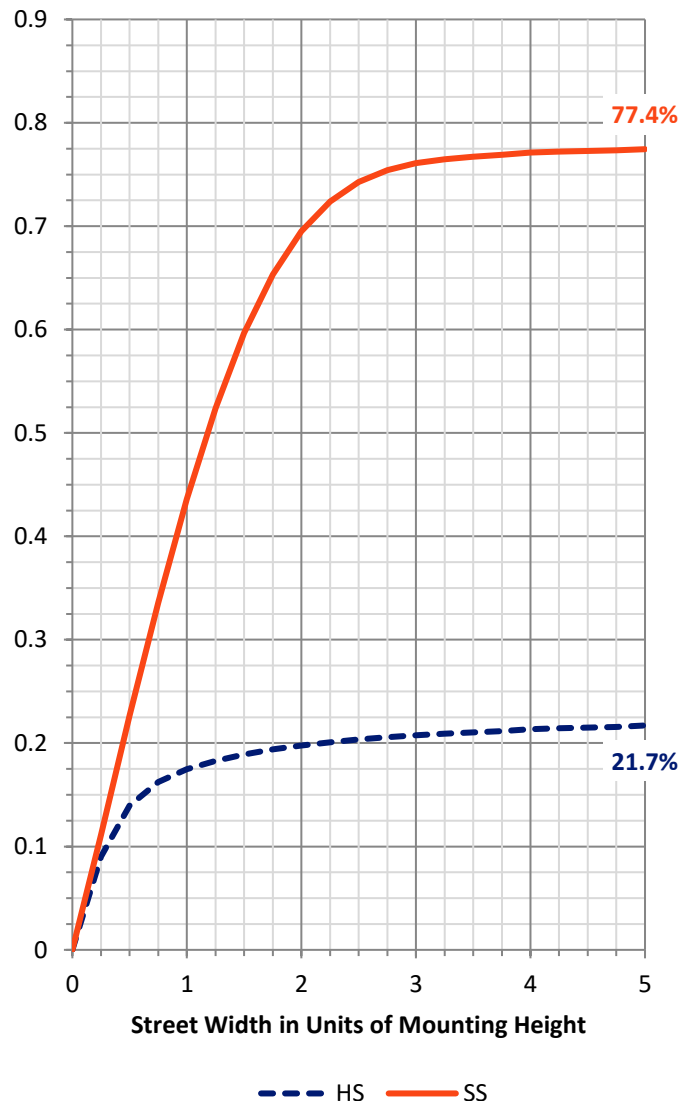
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5834.5	0.0	5834.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20364.5	0.0	20364.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	26199.0	0.0	26199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.4	1.3
10°-20°	1081.7	4.1
20°-30°	1888.3	7.2
30°-40°	2712.5	10.4
40°-50°	3753.9	14.3
50°-60°	5500.0	21.0
60°-70°	6705.5	25.6
70°-80°	3707.2	14.2
80°-90°	513.5	2.0
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°	26199.0	100.0
0°-180°	26199.0	100.0

Coefficient of Utilization

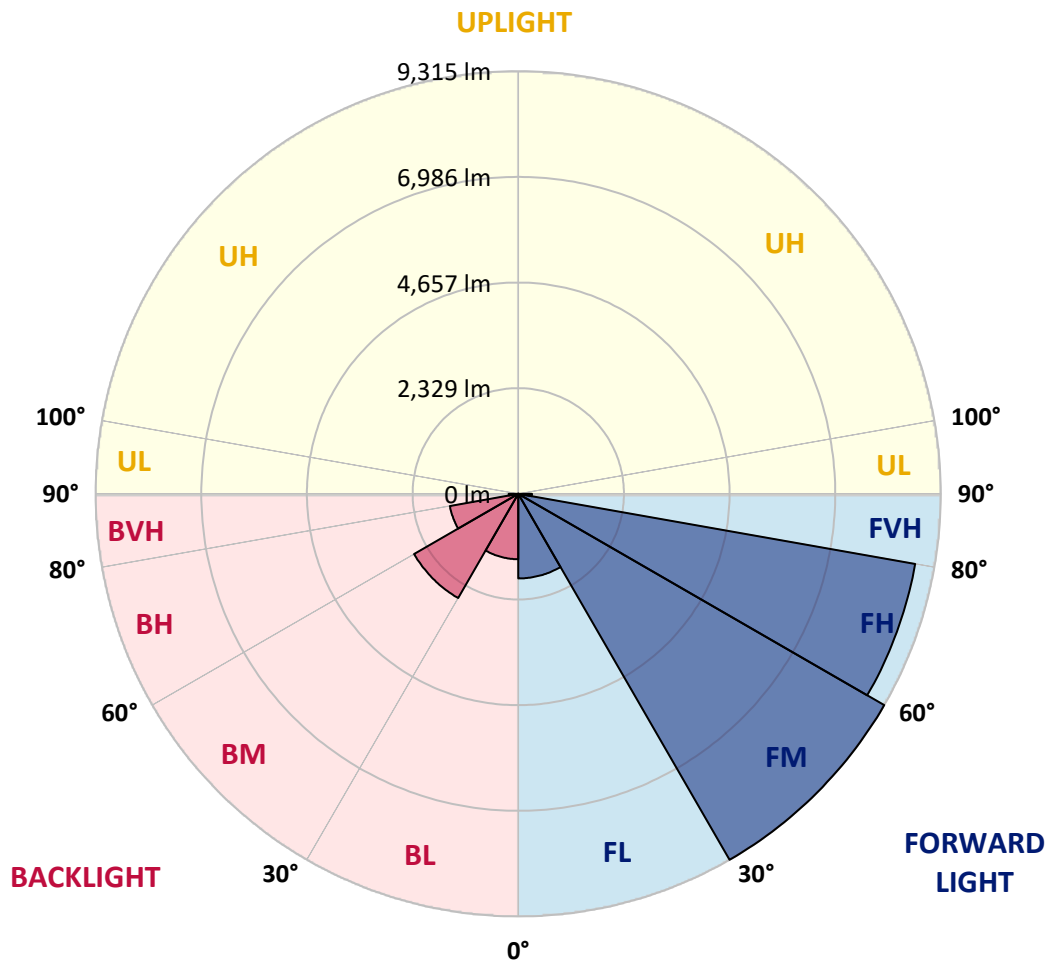


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.6	7.1			
FM (30°-60°)	9314.7	35.6			
FH (60°-80°)	8882.8	33.9			G4/12000
FVH (80°-90°)	302.4	1.2			G3/500
BL (0°-30°)	1441.8	5.5	B3/2500		
BM (30°-60°)	2651.6	10.1	B3/5000		
BH (60°-80°)	1530.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	211.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1
2.5°	3446.8	3450.4	3447.7	3454.9	3446.8	3452.2	3447.7	3447.7	3445.0	3436.9	3427.8
5°	3500.9	3508.2	3503.6	3510.9	3500.9	3502.7	3494.6	3494.6	3486.5	3469.3	3451.3
7.5°	3585.8	3593.9	3590.3	3597.5	3584.0	3584.0	3573.1	3572.2	3556.0	3528.0	3507.3
10°	3686.9	3697.7	3694.1	3704.9	3694.1	3697.7	3686.9	3686.9	3665.2	3625.5	3599.3
12.5°	3834.0	3847.5	3837.6	3836.7	3832.2	3839.4	3830.4	3828.6	3808.7	3754.6	3718.4
15°	4030.7	4045.2	4024.4	4022.6	3997.3	3994.6	3994.6	3991.9	3979.3	3914.3	3854.7
17.5°	4257.3	4261.8	4243.7	4214.8	4182.4	4161.6	4158.9	4166.1	4166.1	4090.3	3995.5
20°	4479.3	4487.4	4473.0	4440.5	4399.0	4368.3	4346.6	4361.1	4360.2	4269.9	4135.4
22.5°	4721.2	4740.1	4718.5	4676.9	4628.2	4593.9	4556.0	4568.6	4569.5	4458.5	4272.6
25°	5034.3	5017.2	5003.7	4945.0	4875.5	4840.3	4805.1	4817.7	4814.1	4661.6	4414.3
27.5°	5311.4	5315.0	5297.0	5234.7	5154.4	5076.8	5075.0	5083.1	5069.5	4872.8	4547.9
30°	5633.6	5635.4	5610.2	5554.2	5466.7	5366.5	5343.0	5356.6	5327.7	5073.2	4688.7
32.5°	5954.0	5963.1	5935.1	5867.4	5797.0	5675.1	5628.2	5637.2	5565.0	5278.0	4834.0
35°	6234.7	6247.4	6238.3	6193.2	6116.5	6011.8	5955.8	5950.4	5861.1	5528.9	5026.2
37.5°	6520.8	6532.6	6522.6	6484.7	6454.0	6343.0	6313.2	6313.2	6158.0	5785.3	5270.8
40°	6815.1	6833.1	6821.4	6769.0	6742.8	6692.3	6621.0	6603.9	6436.0	6093.0	5669.7
42.5°	7088.5	7112.0	7158.9	7128.2	7075.0	7082.2	6938.7	6929.7	6806.9	6547.9	6170.6
45°	7476.6	7510.9	7590.3	7566.9	7556.0	7516.3	7345.7	7337.6	7290.7	7159.8	6792.5
47.5°	7899.9	7946.8	8090.3	8094.8	8211.3	8136.4	7904.4	7876.4	7887.3	7892.7	7551.5
50°	8289.8	8341.2	8576.8	8687.8	8962.2	8978.4	8607.5	8582.2	8624.6	8749.2	8436.0
52.5°	8601.2	8666.2	8960.4	9303.3	9773.6	9907.1	9473.0	9454.1	9485.7	9700.5	9436.0
55°	8829.5	8899.9	9220.3	9844.9	10595.8	10831.3	10469.4	10451.4	10471.2	10744.7	10523.6
57.5°	8882.8	8899.9	9364.7	10209.5	11289.8	11855.7	11688.7	11652.6	11555.2	11793.4	11723.9
60°	8632.8	8701.4	9245.6	10337.6	11826.8	12865.7	12963.1	12918.0	12644.5	12839.5	12783.5
62.5°	8125.5	8248.3	8800.6	10142.7	12037.1	13690.6	14213.1	14159.0	13687.9	13814.2	13545.3
65°	7297.0	7349.4	7929.7	9470.3	11770.0	14218.6	15327.8	15300.7	14707.7	14510.1	13686.1
67.5°	5815.0	5913.4	6406.2	8065.1	10677.0	14156.3	16189.7	16187.0	15373.8	14768.2	13187.0
69°	4593.9	4695.9	5165.2	6643.6	9447.7	13586.8	16334.1	16365.7	15561.5	14611.2	12474.0
70°	3662.5	3780.7	4102.9	5595.7	8356.6	12835.9	16214.1	16270.9	15525.4	14352.1	11816.0
72.5°	1558.7	1654.3	1883.6	2884.5	5093.0	9584.9	14825.1	15039.9	14688.8	13135.5	9765.4
75°	680.5	710.3	814.1	1176.0	2260.9	5216.7	11613.8	12011.0	12559.7	11103.0	7274.4
77.5°	498.2	510.8	567.7	690.4	1014.5	1970.2	7468.5	7699.5	9057.9	8079.5	4462.1
80°	385.4	394.4	438.6	507.2	662.5	796.9	3406.2	3604.7	5093.0	4149.9	1858.3
82.5°	306.9	313.2	343.9	373.6	457.6	482.9	1130.9	1254.5	1880.0	1146.2	491.9
85°	285.2	292.4	303.3	272.6	293.3	283.4	489.2	511.7	567.7	450.4	205.8
87.5°	129.1	152.5	300.5	212.1	156.1	124.5	200.4	209.4	235.6	236.5	91.2
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°	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1	3425.1
2.5°	3433.2	3430.5	3435.1	3424.2	3437.8	3436.9	3432.3	3434.2	3443.2	3442.3	3443.2
5°	3454.0	3452.2	3457.6	3449.5	3465.7	3471.2	3472.1	3480.2	3490.1	3492.8	3492.8
7.5°	3506.4	3506.4	3509.1	3498.2	3509.1	3508.2	3503.6	3511.8	3521.7	3522.6	3521.7
10°	3596.6	3597.5	3593.0	3565.0	3556.0	3531.6	3509.1	3510.0	3522.6	3532.5	3535.2
12.5°	3710.3	3706.7	3686.9	3635.4	3597.5	3547.9	3524.4	3523.5	3536.1	3544.3	3547.0
15°	3840.3	3830.4	3778.9	3695.0	3628.2	3579.5	3541.6	3532.5	3525.3	3516.3	3517.2
17.5°	3963.0	3940.5	3854.7	3738.3	3667.9	3602.9	3529.8	3471.2	3430.5	3407.1	3399.9
20°	4087.6	4043.4	3919.7	3778.9	3689.6	3571.3	3430.5	3311.4	3237.4	3203.1	3196.8
22.5°	4201.3	4130.0	3980.2	3821.3	3672.4	3464.8	3243.7	3070.4	2967.5	2921.5	2925.1
25°	4312.3	4213.0	4043.4	3851.1	3585.8	3277.1	2983.8	2770.8	2651.7	2600.2	2598.4
27.5°	4409.8	4297.0	4112.0	3826.8	3424.2	3010.0	2676.0	2468.4	2369.2	2324.9	2317.7
30°	4521.7	4402.6	4203.1	3733.8	3187.8	2701.3	2375.5	2229.3	2158.9	2114.6	2106.5
32.5°	4658.0	4546.1	4278.0	3565.0	2885.4	2379.1	2140.8	2038.8	1974.7	1925.1	1916.1
35°	4856.5	4735.6	4297.0	3323.1	2553.3	2124.6	1968.4	1863.7	1777.1	1713.0	1706.7
37.5°	5105.6	4973.0	4253.7	3010.0	2231.1	1959.4	1824.9	1695.9	1583.0	1492.8	1478.4
40°	5464.9	5264.5	4133.6	2648.9	1993.7	1832.1	1685.0	1537.9	1398.0	1292.4	1271.7
42.5°	5896.3	5606.6	3949.5	2289.7	1819.5	1703.1	1546.0	1363.7	1230.2	1155.2	1144.4
45°	6445.0	5962.2	3694.1	1975.7	1648.0	1574.0	1396.2	1228.4	1145.3	1090.3	1081.2
47.5°	7071.4	6361.1	3426.0	1720.2	1502.7	1453.1	1276.2	1167.9	1102.0	1058.7	1050.6
50°	7841.2	6811.4	3141.7	1510.8	1356.5	1307.8	1219.3	1134.5	1082.1	1048.7	1040.6
52.5°	8709.5	7319.6	2936.9	1345.7	1235.6	1200.4	1189.5	1116.4	1074.0	1048.7	1040.6
55°	9644.5	7836.7	2715.7	1206.7	1130.9	1140.8	1169.7	1118.2	1089.4	1058.7	1046.9
57.5°	10580.4	8371.0	2469.3	1089.4	1047.8	1096.6	1156.1	1121.9	1097.5	1067.7	1056.9
60°	11320.5	8709.5	2087.6	991.0	982.0	1047.8	1123.7	1094.8	1063.2	1064.1	1062.3
62.5°	11666.2	8691.4	1666.1	903.4	916.1	982.0	1071.3	1052.4	1026.2	1061.4	1064.1
65°	11472.1	8258.2	1296.9	824.0	845.7	913.4	1017.2	1031.6	1040.6	1108.3	1117.3
67.5°	10658.0	7415.2	1004.5	754.5	781.6	866.4	1022.6	1123.7	1135.4	1206.7	1205.8
69°	9816.0	6624.6	872.8	718.4	750.0	878.2	1093.0	1182.3	1138.1	1213.9	1203.1
70°	9110.2	5999.2	802.4	694.1	735.6	898.9	1139.9	1181.4	1124.6	1189.5	1171.5
72.5°	7016.3	4315.9	680.5	648.9	686.8	860.1	1153.4	1155.2	1093.0	1105.6	1074.9
75°	4812.3	2727.5	593.9	587.6	612.8	775.3	1110.1	1103.8	1010.8	992.8	967.5
77.5°	2653.5	1385.4	504.5	528.9	546.0	686.8	1009.0	1000.0	923.3	885.4	876.4
80°	1023.5	606.5	426.0	470.2	481.1	594.8	884.5	876.4	812.3	763.5	750.0
82.5°	386.3	317.7	352.0	407.0	403.4	491.0	749.1	744.6	682.3	611.0	589.4
85°	178.7	190.4	278.9	335.7	309.6	363.7	599.3	607.4	531.6	446.8	446.8
87.5°	75.8	106.5	197.7	253.6	208.5	245.5	439.5	419.7	385.4	267.2	250.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

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

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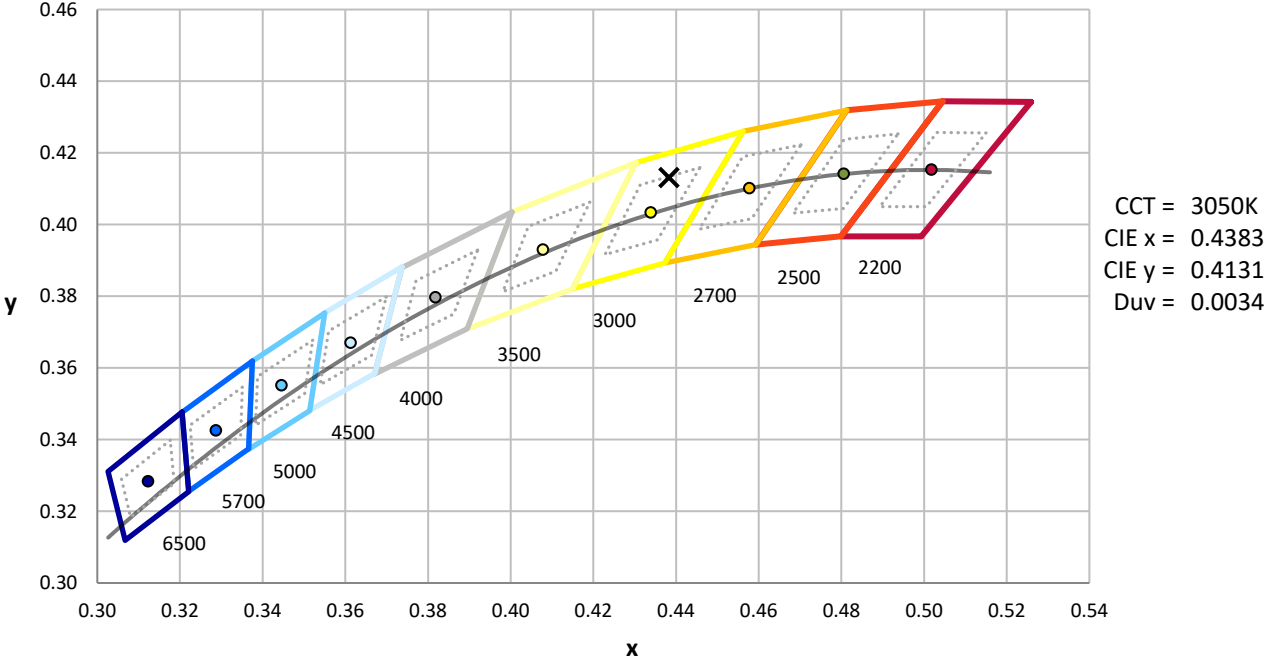
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



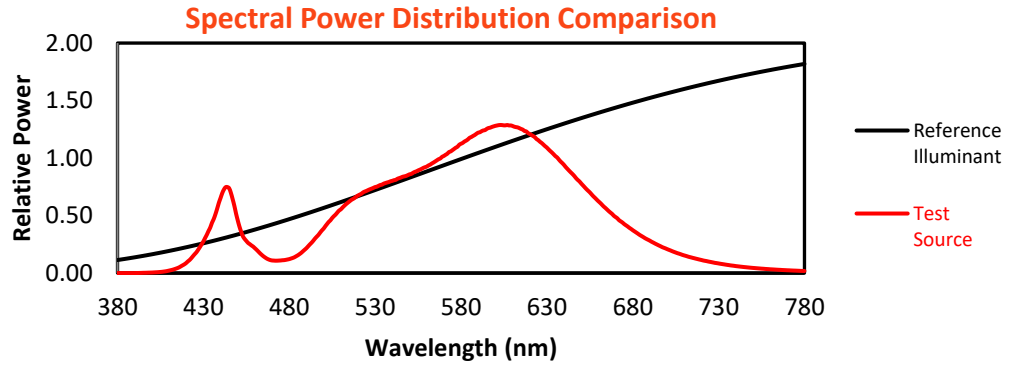
Melanopic Lumens: NR

M/P: 2.32

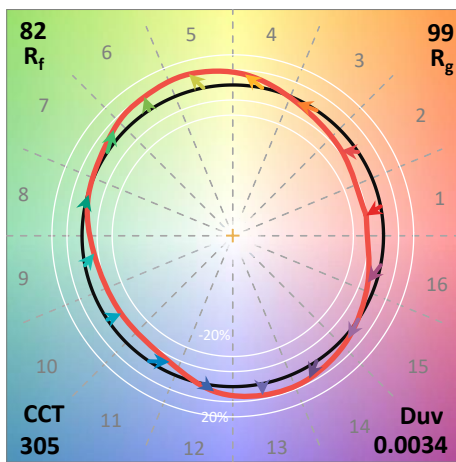
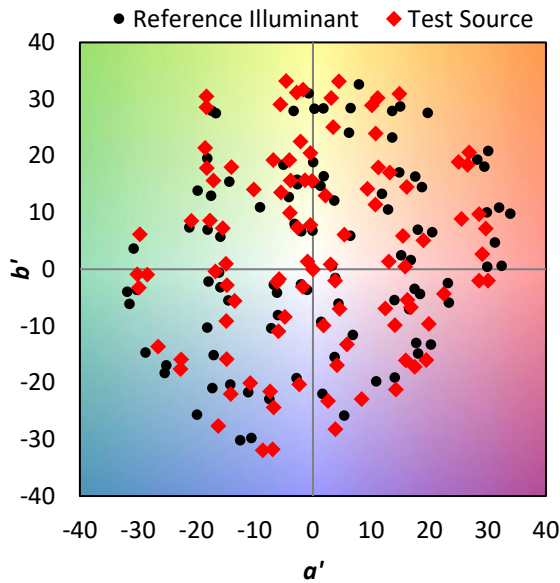
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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			

Summary

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

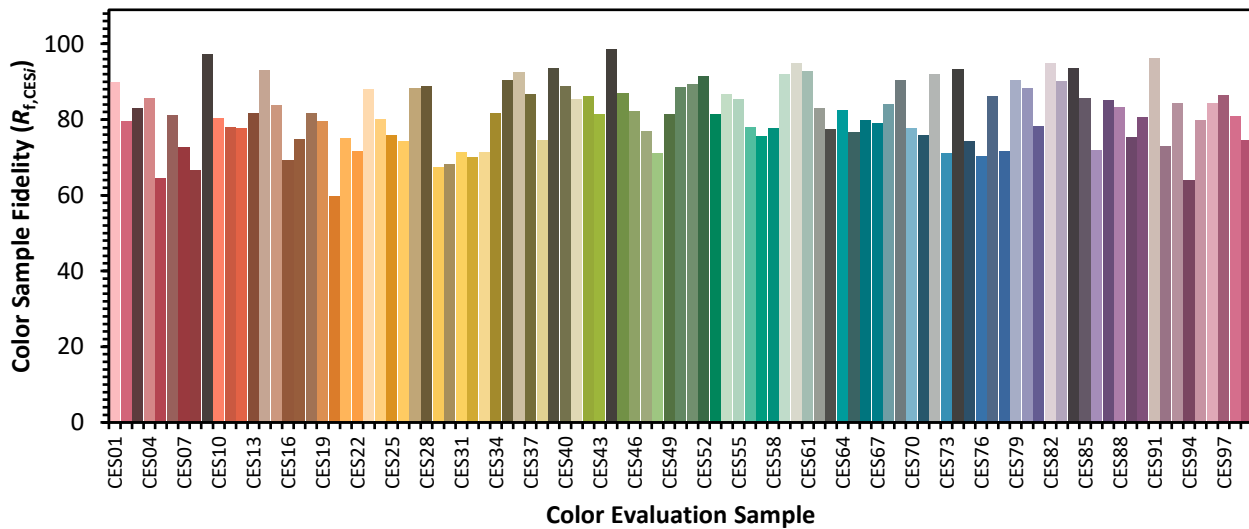


Color Vector Graphics

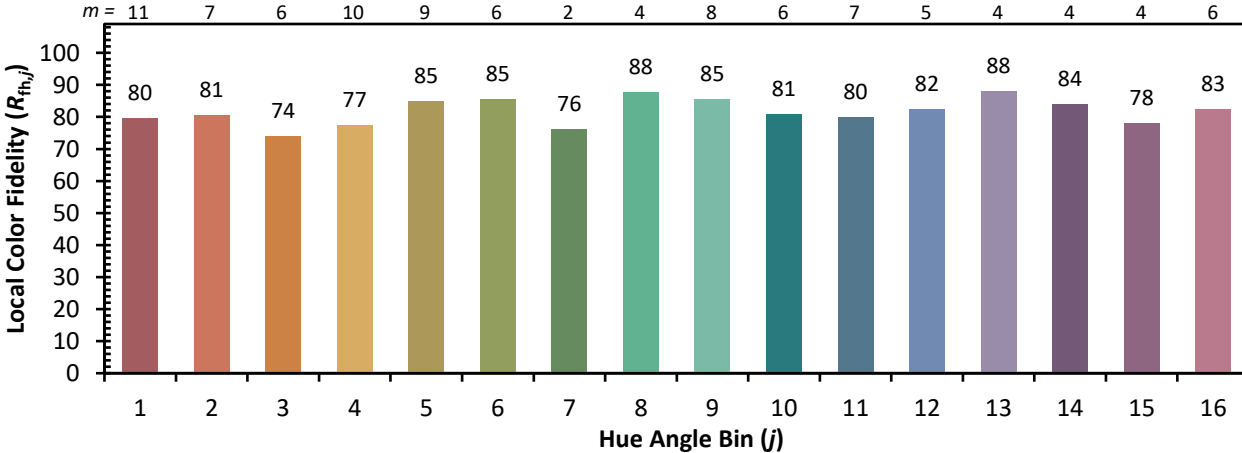


Individual Sample Fidelity Index ($R_{f,i}$)

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)