

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: P318237

Luminaire Tested: **GLEON-SA3B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13605 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

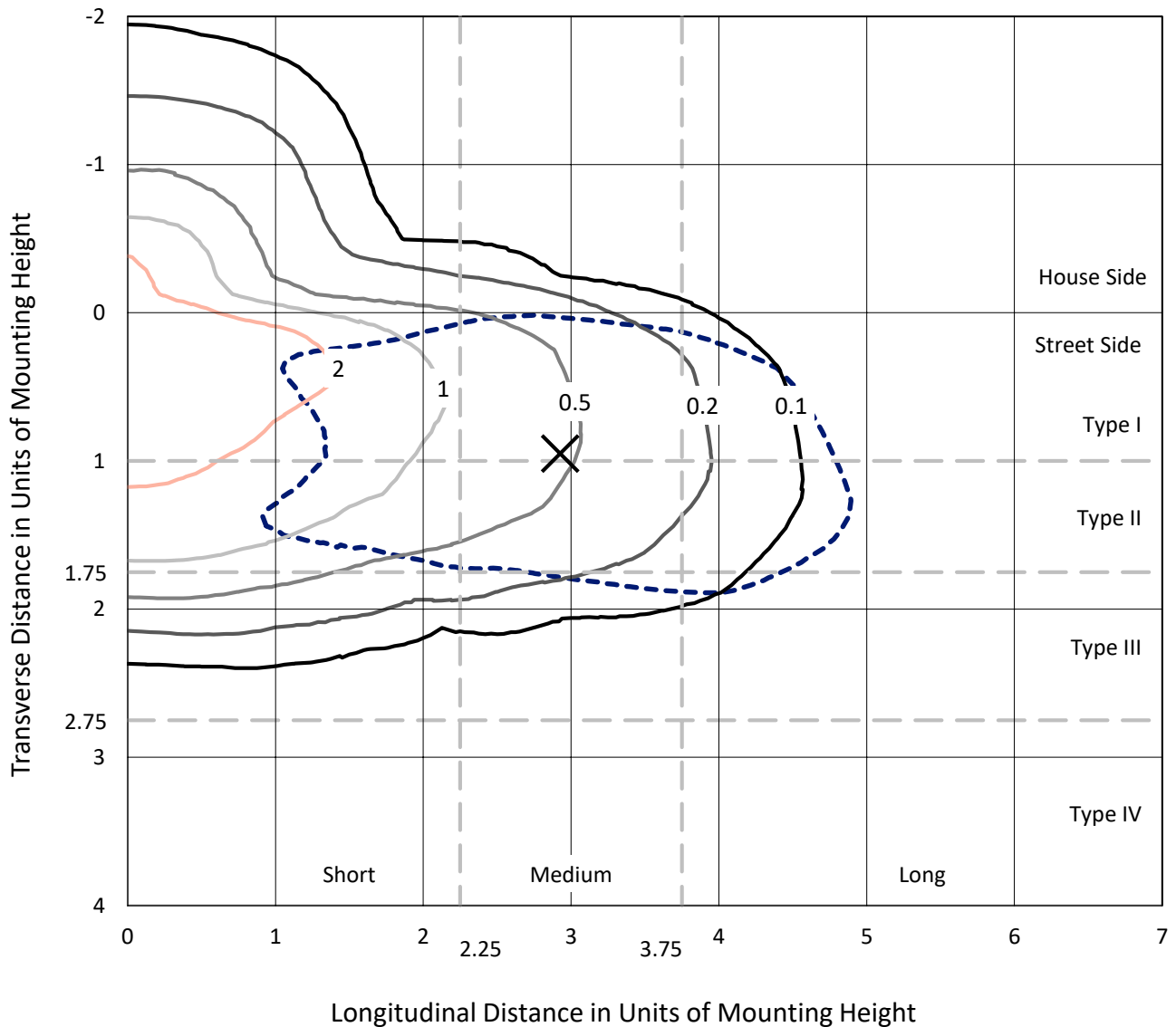
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA3B-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

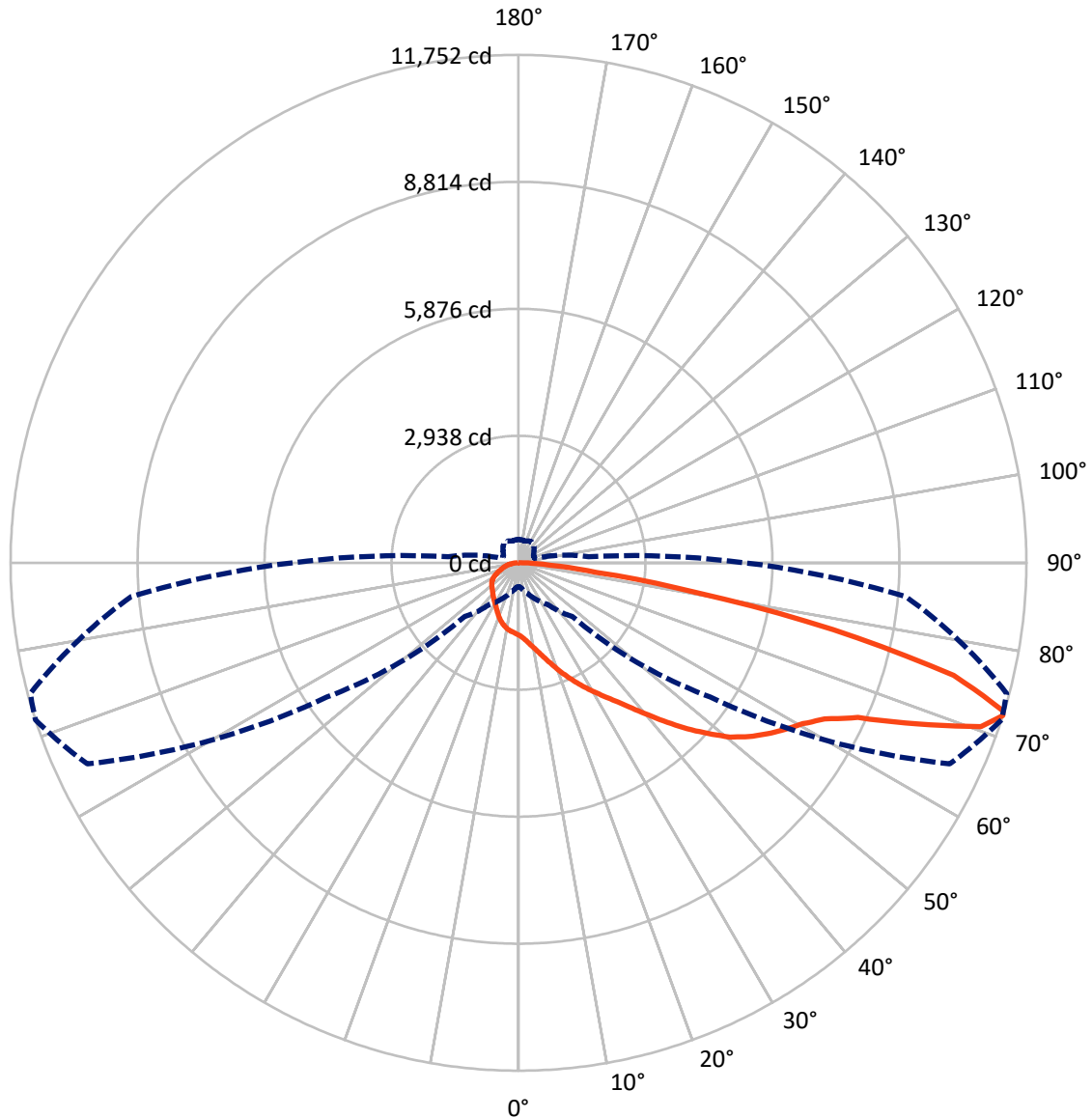
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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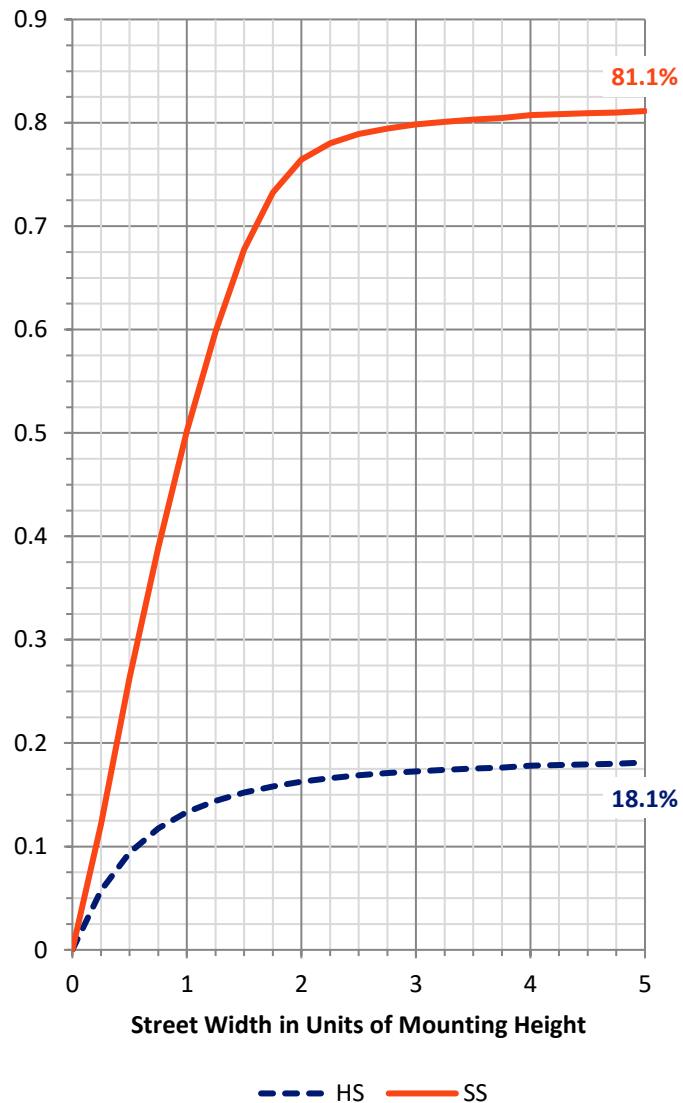
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2523.8	0.0	2523.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11081.2	0.0	11081.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	13605.0	0.0	13605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.2
10°-20°	542.0	4.0
20°-30°	949.7	7.0
30°-40°	1408.1	10.4
40°-50°	2059.5	15.1
50°-60°	2833.9	20.8
60°-70°	3154.9	23.2
70°-80°	2137.8	15.7
80°-90°	351.4	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°	13605.0	100.0
0°-180°	13605.0	100.0

Coefficient of Utilization

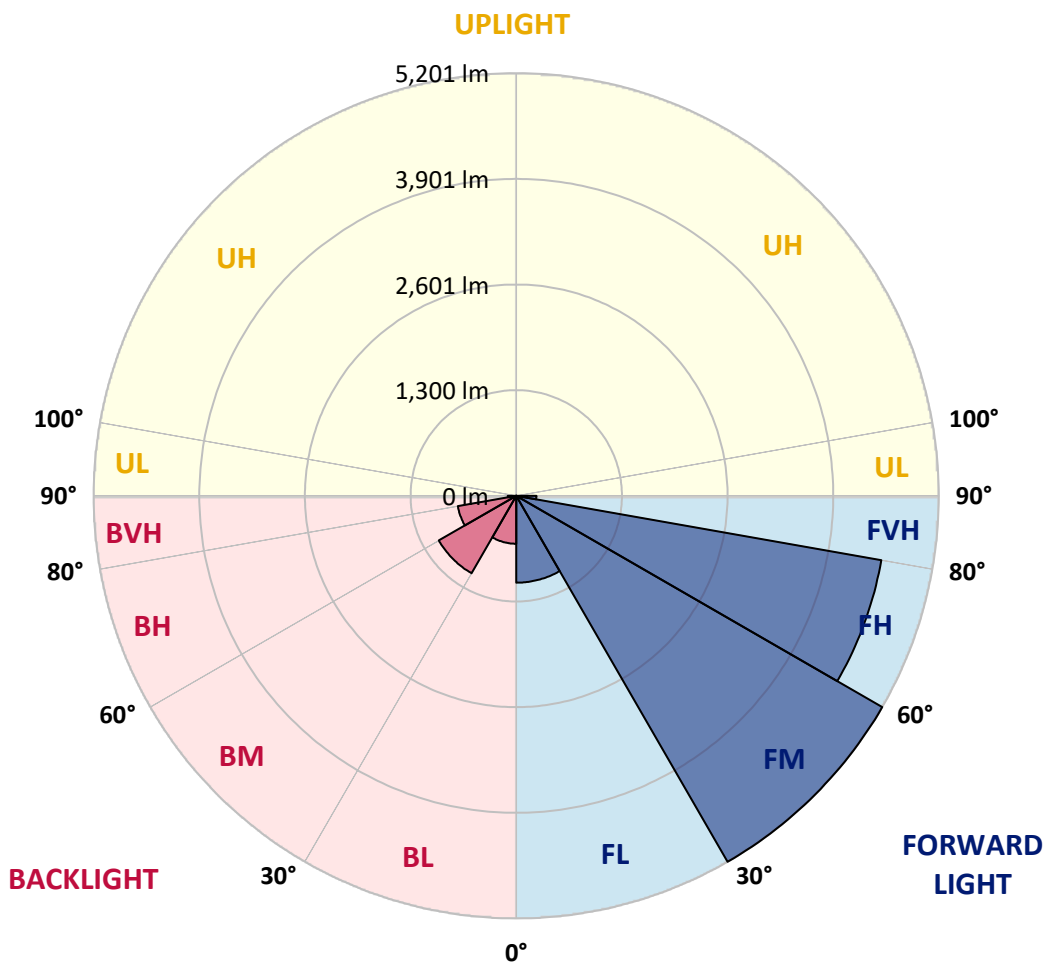


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.4	7.9			
FM (30°-60°)	5201.4	38.2			
FH (60°-80°)	4562.5	33.5			G2/5000
FVH (80°-90°)	247.8	1.8			G3/500
BL (0°-30°)	590.0	4.3	B2/1000		
BM (30°-60°)	1100.2	8.1	B2/2500		
BH (60°-80°)	730.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	103.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
2.5°	1849.0	1846.2	1836.3	1836.3	1817.6	1801.7	1771.7	1751.5	1727.6	1719.2	1691.1
5°	2027.9	2028.9	2016.7	2008.2	1980.6	1946.9	1895.8	1849.4	1803.1	1784.3	1726.7
7.5°	2178.3	2176.4	2173.1	2166.1	2140.3	2105.7	2036.8	1968.0	1899.6	1871.5	1772.1
10°	2274.8	2279.0	2281.8	2285.1	2274.3	2249.5	2184.4	2100.5	2011.1	1972.6	1826.5
12.5°	2323.5	2331.0	2344.1	2366.6	2384.4	2381.6	2334.3	2245.3	2138.9	2090.7	1894.4
15°	2352.1	2361.9	2382.5	2422.8	2472.9	2501.5	2488.9	2408.3	2289.8	2230.3	1977.3
17.5°	2369.9	2377.8	2409.7	2463.6	2538.1	2613.9	2647.2	2579.8	2460.3	2392.4	2072.4
20°	2382.1	2388.2	2428.0	2491.2	2587.7	2708.6	2801.3	2784.5	2648.1	2560.1	2171.7
22.5°	2409.2	2414.4	2452.3	2516.0	2622.8	2778.8	2949.8	2975.1	2846.3	2746.5	2278.1
25°	2485.1	2485.1	2517.0	2561.5	2661.7	2839.7	3075.4	3187.3	3048.7	2932.5	2376.4
27.5°	2629.9	2628.5	2640.2	2655.6	2731.5	2901.6	3187.3	3374.7	3258.5	3131.6	2472.0
30°	2801.3	2810.7	2812.1	2804.6	2840.2	2978.9	3290.9	3572.4	3469.8	3333.0	2569.9
32.5°	3022.0	3028.1	3021.0	2996.2	2991.0	3088.5	3392.5	3779.5	3698.4	3543.4	2659.4
35°	3302.1	3290.4	3268.4	3217.8	3169.5	3235.1	3508.7	3986.5	3955.1	3797.7	2782.6
37.5°	3602.4	3602.8	3575.7	3460.9	3394.4	3422.5	3668.9	4221.2	4265.7	4100.3	2940.5
40°	3843.2	3855.8	3872.7	3721.8	3635.6	3674.5	3872.7	4493.4	4633.0	4459.2	3146.1
42.5°	4011.3	4025.9	4073.6	3979.0	3889.5	3961.7	4112.5	4783.8	5045.2	4873.3	3386.9
45°	4189.3	4197.3	4231.0	4190.3	4133.1	4295.7	4382.8	5084.6	5481.3	5314.6	3656.2
47.5°	4376.7	4385.2	4419.8	4392.7	4362.7	4607.7	4664.8	5368.0	5899.2	5799.4	3943.9
50°	4608.1	4613.8	4646.6	4597.4	4606.7	4842.8	4916.8	5628.0	6337.2	6235.1	4232.4
52.5°	4923.9	4925.3	4970.7	4926.2	4882.2	5015.2	5133.7	5873.0	6680.6	6632.3	4521.0
55°	5171.2	5186.2	5335.2	5325.8	5300.5	5171.7	5315.0	6106.2	6986.9	7009.9	4827.4
57.5°	5013.3	5071.9	5373.6	5586.3	5793.3	5561.0	5560.0	6369.0	7271.7	7380.4	5164.2
60°	4390.8	4470.4	4915.0	5386.7	6034.6	6238.3	6068.8	6689.9	7559.4	7747.7	5586.3
62.5°	3135.8	3267.0	3869.4	4622.7	5703.8	6687.1	7104.0	7199.1	7950.5	8173.0	6134.8
65°	1585.2	1684.5	2189.5	3096.9	4557.1	6393.9	8229.3	8314.0	8630.2	8827.9	6979.4
67.5°	963.1	1000.6	1247.0	1722.5	2793.8	4980.6	8596.5	10172.4	9945.7	10050.6	8183.8
70°	709.7	737.3	891.0	1144.0	1606.8	2922.7	7469.4	11498.6	11349.6	11337.9	9073.9
72°	552.8	572.9	708.8	924.3	1174.9	1753.4	5413.9	11009.0	11751.5	11692.5	8992.4
72.5°	524.2	542.0	665.7	869.9	1110.2	1589.4	4867.7	10678.8	11722.5	11695.8	8887.0
75°	412.7	425.4	492.8	672.7	869.0	901.8	2667.4	8275.6	10399.1	10831.5	7993.2
77.5°	341.5	343.4	379.0	489.5	677.4	637.6	1310.3	5741.8	7446.5	7921.9	5662.1
80°	278.3	280.6	297.5	343.4	512.5	471.7	622.1	3301.6	4169.2	4174.4	2692.6
82.5°	221.6	222.0	240.8	251.1	368.2	337.3	356.5	1550.1	1821.8	1752.5	967.8
85°	156.0	152.7	235.2	206.1	240.8	216.4	196.7	613.7	753.3	720.5	303.1
87.5°	52.0	53.9	104.5	133.5	140.5	122.7	87.6	235.2	284.3	282.0	96.0
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-SA3B-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
2.5°	1682.2	1667.2	1645.2	1620.8	1601.6	1582.0	1567.4	1559.9	1551.5	1544.5	1552.9
5°	1700.0	1671.9	1625.1	1579.1	1545.4	1515.4	1493.9	1482.6	1472.3	1465.3	1466.2
7.5°	1729.0	1683.6	1604.9	1537.9	1491.1	1458.8	1436.7	1429.2	1422.7	1420.8	1423.1
10°	1760.0	1693.0	1578.2	1489.2	1435.8	1409.1	1399.3	1404.4	1409.1	1413.3	1418.0
12.5°	1795.1	1701.4	1539.3	1432.1	1386.6	1376.3	1386.1	1408.6	1425.0	1434.9	1441.0
15°	1841.0	1708.9	1494.4	1374.9	1344.4	1356.2	1389.4	1428.3	1456.9	1475.1	1478.0
17.5°	1883.2	1708.4	1436.7	1317.3	1310.3	1344.4	1394.6	1449.4	1487.8	1513.6	1518.7
20°	1926.7	1695.8	1369.7	1261.1	1275.6	1331.8	1396.9	1463.0	1509.3	1539.3	1546.4
22.5°	1967.5	1673.8	1296.2	1210.0	1246.5	1314.9	1388.0	1455.0	1501.4	1525.7	1533.2
25°	1995.1	1635.4	1221.7	1166.9	1220.8	1294.3	1359.0	1412.8	1447.5	1459.7	1461.6
27.5°	2009.2	1585.2	1151.4	1129.4	1194.1	1260.6	1305.1	1331.8	1341.6	1340.7	1338.8
30°	2011.1	1519.2	1091.0	1099.0	1163.2	1210.9	1232.0	1226.9	1214.2	1192.7	1194.5
32.5°	2005.0	1444.7	1040.4	1069.9	1123.8	1150.5	1151.4	1126.6	1092.9	1058.7	1049.3
35°	2006.8	1371.6	995.9	1037.1	1076.0	1087.7	1077.0	1040.4	994.5	950.5	941.1
37.5°	2027.4	1307.9	957.5	999.2	1023.1	1025.9	1010.4	972.0	938.3	895.2	891.5
40°	2076.6	1262.5	921.0	956.6	970.2	971.6	949.5	922.4	925.2	902.2	901.8
42.5°	2165.2	1242.8	888.6	912.1	920.5	923.3	906.4	889.1	913.5	898.5	893.3
45°	2279.5	1247.5	861.5	868.5	884.0	897.1	886.8	865.7	875.1	809.9	788.4
47.5°	2411.6	1277.5	839.9	831.0	857.7	882.6	866.6	834.8	801.5	736.9	724.7
50°	2566.2	1323.8	820.3	794.0	829.2	862.9	847.0	801.5	751.4	720.0	715.8
52.5°	2727.3	1380.5	800.6	753.3	793.1	847.9	839.9	794.0	732.2	701.3	695.6
55°	2910.0	1437.7	775.8	706.0	754.2	840.9	836.7	766.9	717.7	700.3	696.1
57.5°	3137.2	1502.8	743.0	656.8	717.7	815.6	802.5	750.5	702.7	689.6	688.2
60°	3433.3	1598.8	695.6	604.3	673.2	776.7	773.9	726.6	678.8	669.4	667.5
62.5°	3877.4	1757.6	630.5	551.8	623.5	710.6	736.4	694.2	653.5	653.0	654.0
65°	4566.0	1996.5	559.8	505.9	573.4	654.9	692.8	661.0	627.7	637.1	638.5
67.5°	5364.2	2194.7	490.5	461.0	522.3	602.0	653.5	627.7	593.5	617.9	618.4
70°	5629.8	2017.6	429.6	416.5	469.4	550.9	610.9	591.2	556.5	580.9	578.5
72°	5239.1	1628.8	390.2	382.7	429.6	508.7	572.9	557.0	522.8	539.2	533.1
72.5°	5115.9	1552.9	380.4	374.3	418.8	498.0	563.1	548.6	514.4	528.4	522.8
75°	4563.6	1348.7	327.0	328.4	365.4	445.5	507.8	503.1	468.0	469.4	467.5
77.5°	3310.1	988.9	275.4	284.8	311.1	391.6	452.1	449.2	410.8	403.8	402.4
80°	1536.0	504.5	224.4	228.6	255.8	327.4	385.5	381.8	350.9	342.0	336.8
82.5°	526.1	239.8	168.6	171.5	198.2	263.7	334.5	332.1	306.4	289.0	278.3
85°	187.8	119.5	118.0	115.2	141.5	207.5	291.4	278.7	240.8	205.2	204.2
87.5°	60.9	51.1	60.9	60.4	82.4	140.5	211.7	180.4	174.7	145.2	142.4
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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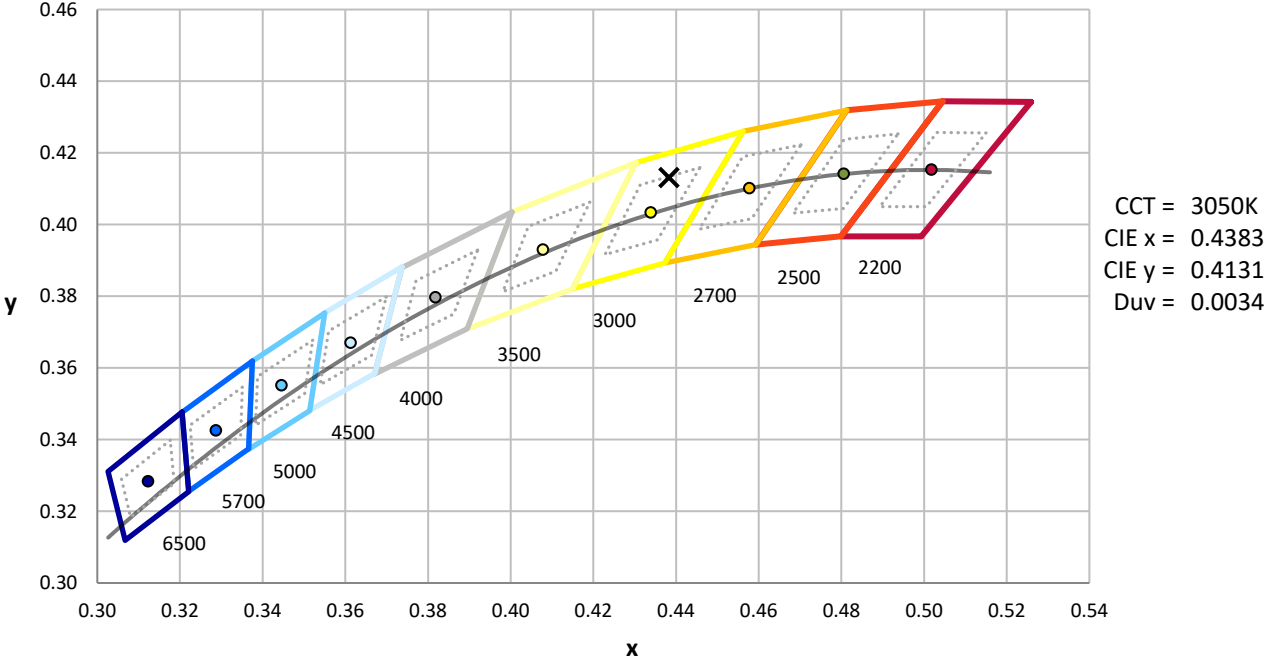
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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



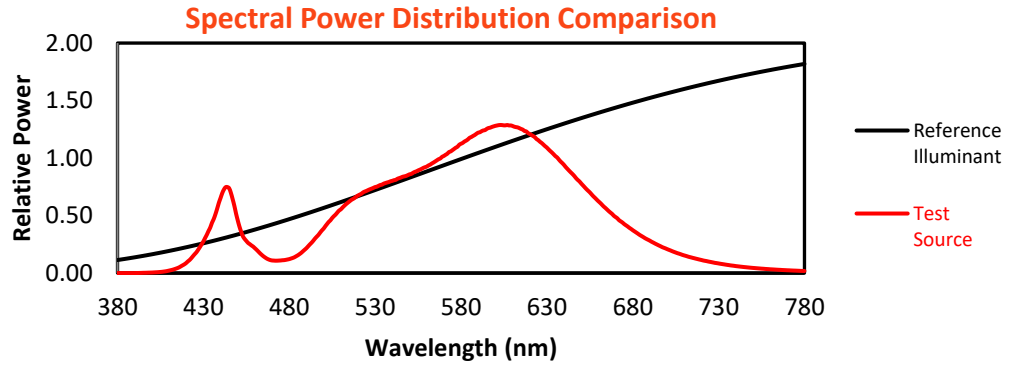
Melanopic Lumens: NR

M/P: 2.32

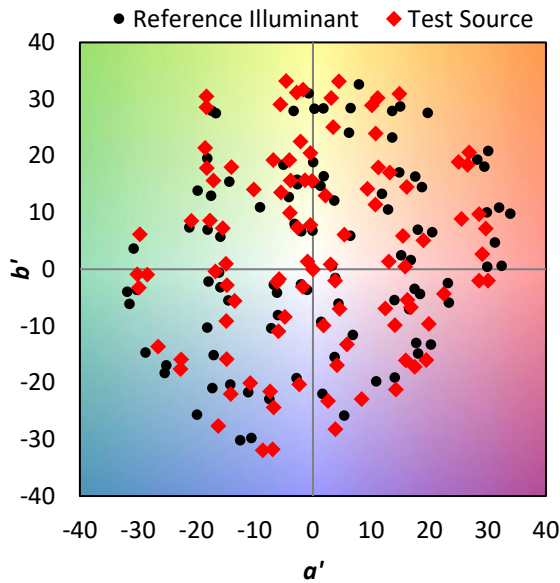
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500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

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

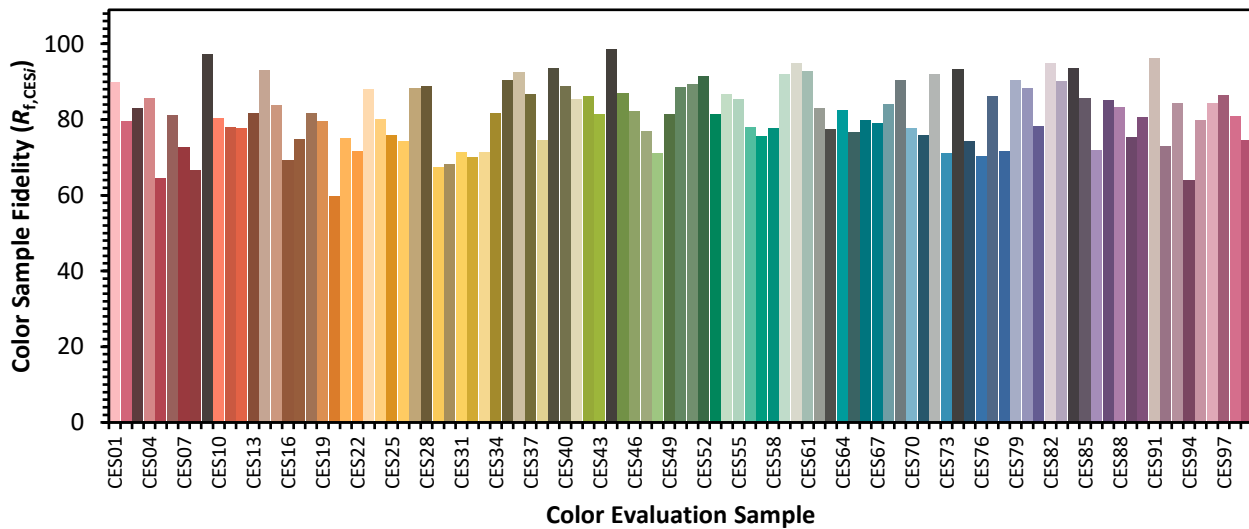


Color Vector Graphics

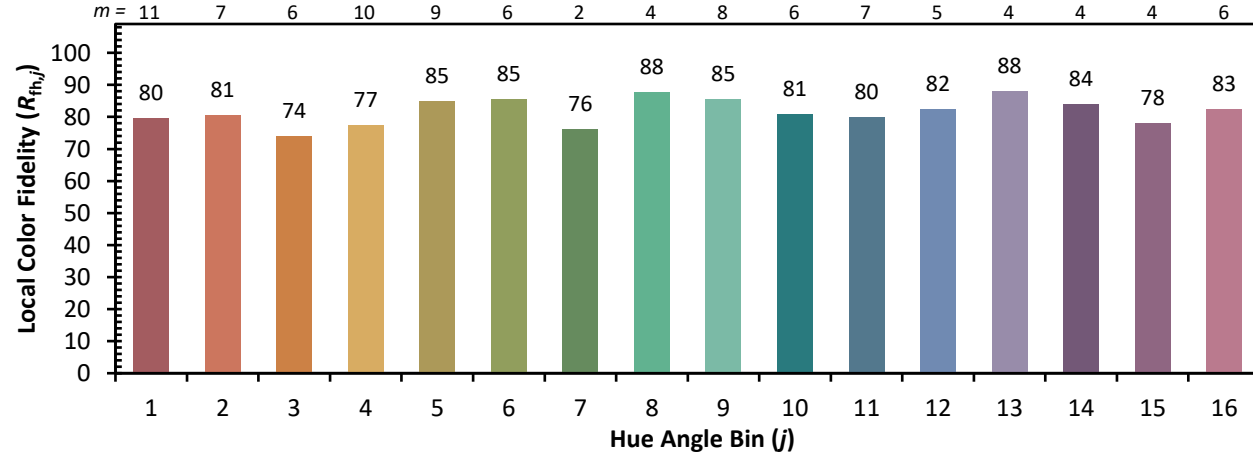


Individual Sample Fidelity Index ($R_{f,i}$)

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)