

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: P324974

Luminaire Tested: **GLEON-SA0C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45542 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

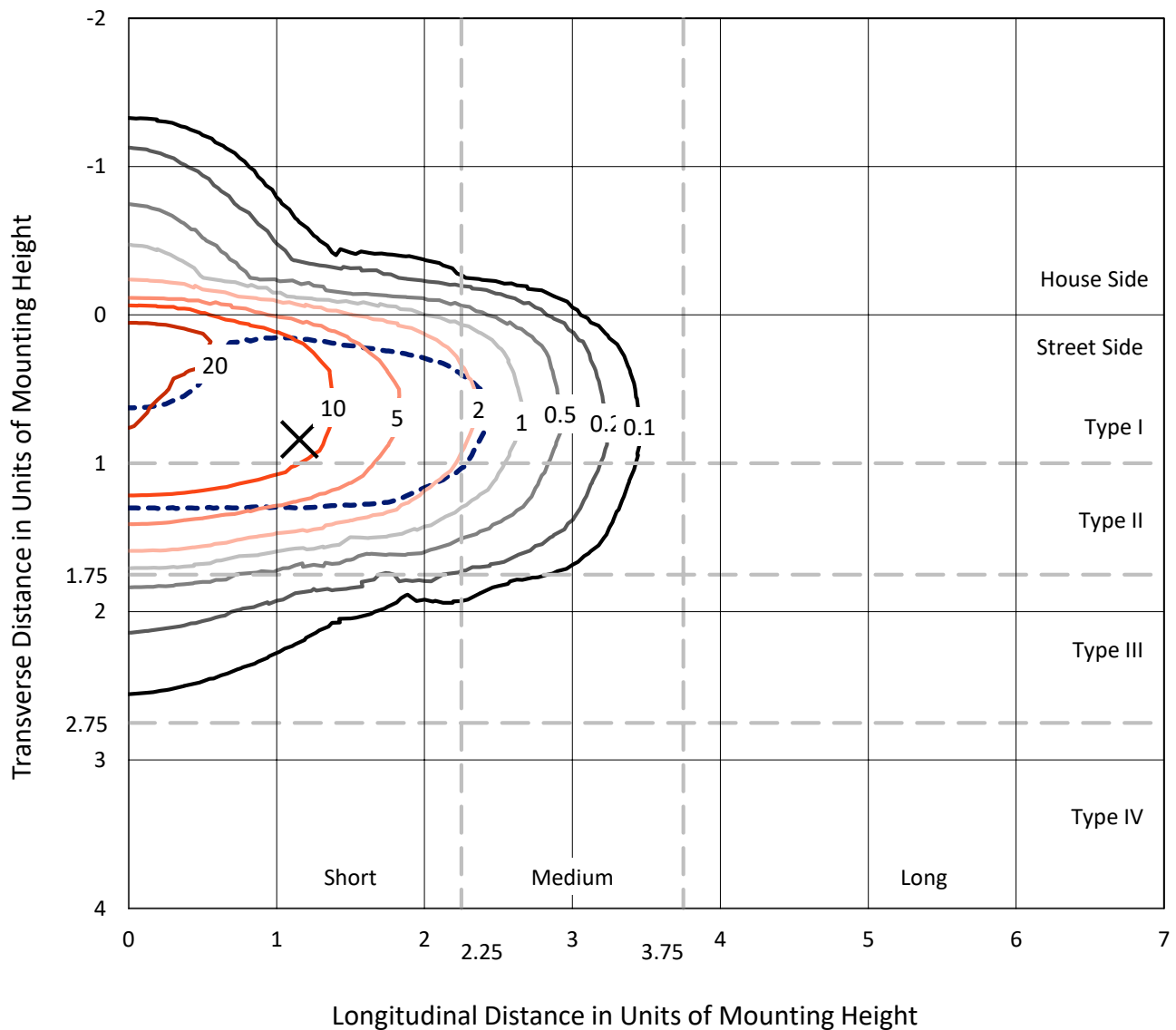
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324974
 CATALOG NUMBER: GLEON-SA0C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

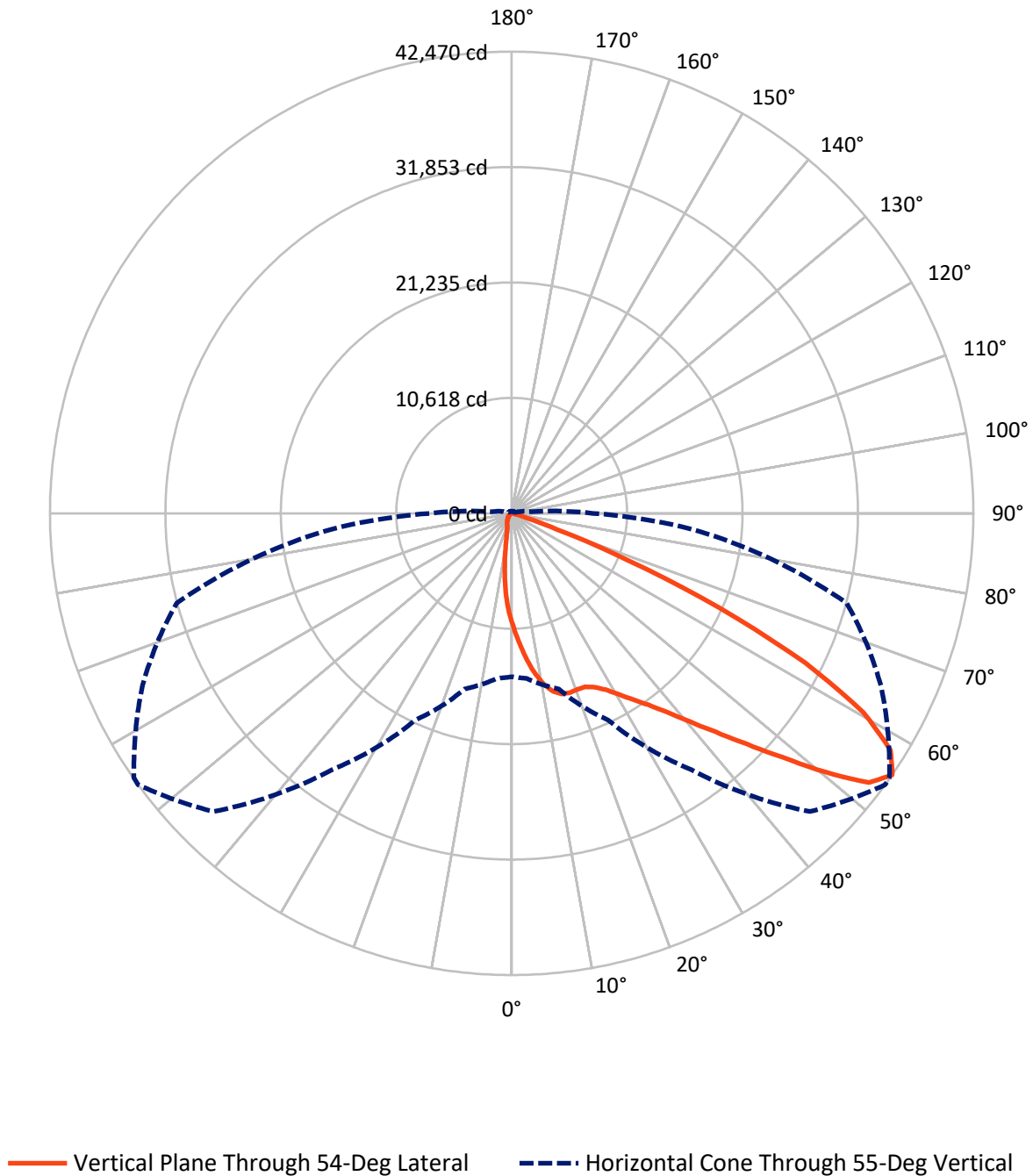
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
 Type II - Short - N/A

REPORT NUMBER: P324974
CATALOG NUMBER: GLEON-SA0C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324974

CATALOG NUMBER: GLEON-SA0C-830-U-AFL-HSS

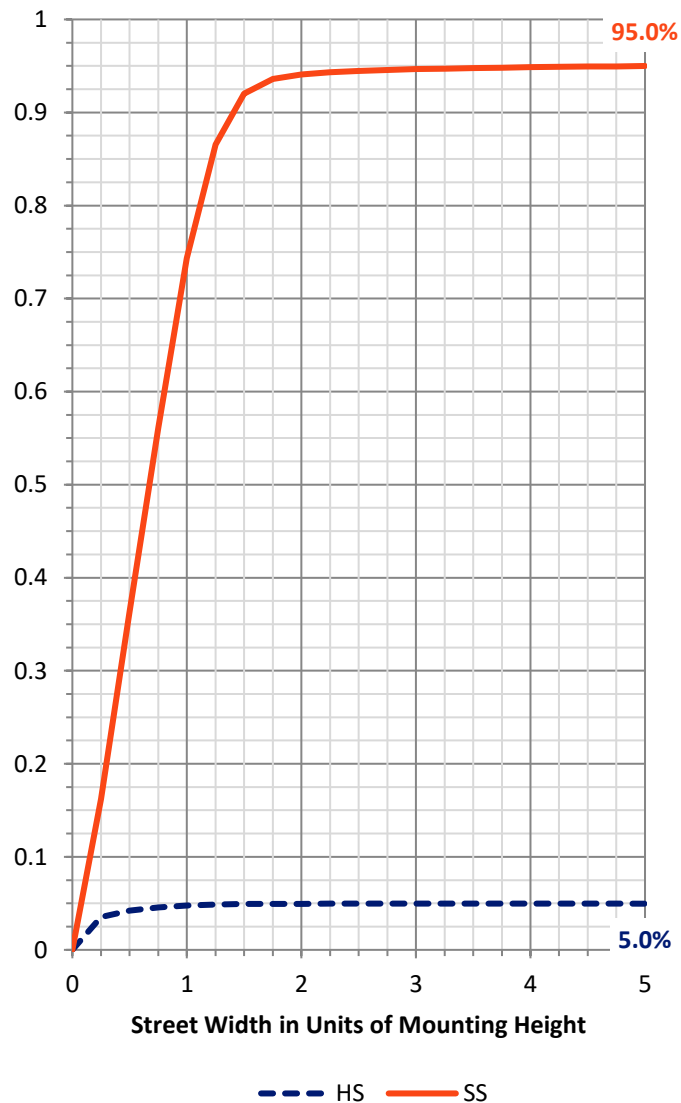
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.2	0.0	2272.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	43269.8	0.0	43269.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	45542.0	0.0	45542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.3	2.1
10°-20°	2576.0	5.7
20°-30°	4398.0	9.7
30°-40°	7058.1	15.5
40°-50°	11278.9	24.8
50°-60°	12085.6	26.5
60°-70°	6205.1	13.6
70°-80°	939.9	2.1
80°-90°	61.2	0.1
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°	45542.0	100.0
0°-180°	45542.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324974

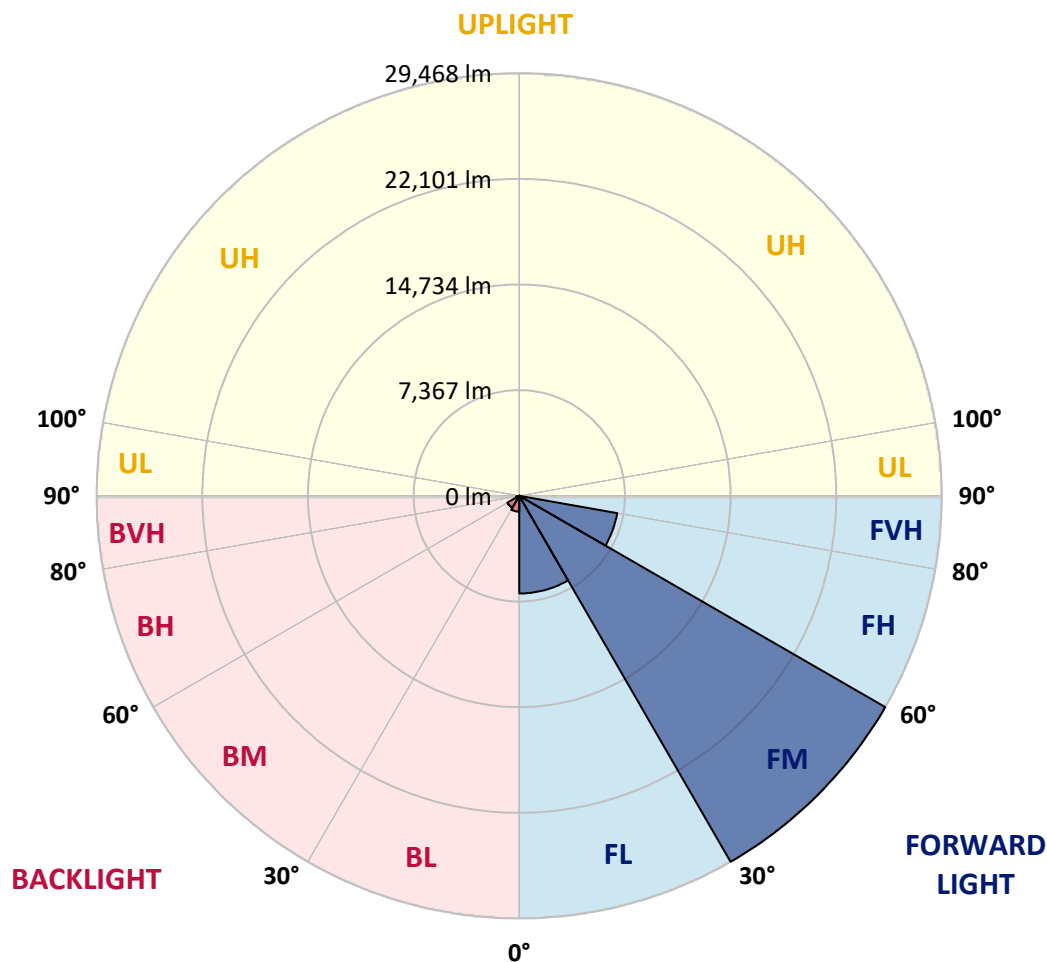
CATALOG NUMBER: GLEON-SA0C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6807.7	14.9			
FM	(30°-60°)	29467.7	64.7			
FH	(60°-80°)	6935.6	15.2			G3/7500
FVH	(80°-90°)	58.7	0.1			G1/100
BL	(0°-30°)	1105.5	2.4	B3/2500		
BM	(30°-60°)	954.8	2.1	B1/1000		
BH	(60°-80°)	209.4	0.5	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P324974

CATALOG NUMBER: GLEON-SA0C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6
2.5°	12799.6	12608.9	12614.8	12528.2	12211.6	11963.8	11706.1	11645.1	11243.9	10823.0	10417.9
5°	15012.2	14872.6	14839.2	14672.0	14231.4	13765.3	13265.7	13149.7	12365.0	11503.5	10655.9
7.5°	16149.0	16151.0	16123.4	16062.5	15787.1	15334.8	14725.1	14603.1	13535.2	12243.0	10903.7
10°	15818.6	15893.3	16046.7	16249.3	16459.8	16402.7	15944.5	15834.3	14673.9	13025.8	11179.0
12.5°	15047.6	15057.5	15228.6	15560.9	16166.7	16788.2	16796.1	16758.7	15761.6	13844.0	11481.9
15°	14664.1	14701.5	14764.4	14978.8	15553.1	16548.3	17260.2	17313.3	16758.7	14713.3	11804.5
17.5°	14915.9	14969.0	14915.9	14941.4	15273.8	16168.7	17340.9	17476.6	17630.0	15572.7	12109.3
20°	15598.3	15647.5	15553.1	15448.8	15513.7	16058.5	17283.8	17466.7	18312.4	16335.8	12365.0
22.5°	16518.8	16538.4	16394.9	16223.7	16176.5	16432.2	17331.0	17519.8	18859.2	17026.2	12526.2
25°	17531.6	17549.3	17370.4	17173.7	17061.6	17165.8	17718.5	17860.1	19341.0	17685.0	12618.7
27.5°	18635.0	18650.7	18426.5	18184.6	18054.8	18058.7	18357.7	18509.1	19854.4	18436.3	12693.4
30°	19801.3	19793.4	19586.9	19250.6	19085.4	19081.4	19278.1	19431.5	20597.8	19400.0	12795.7
32.5°	21111.1	21095.4	20802.3	20385.4	20198.6	20226.1	20401.1	20489.6	21520.2	20426.7	12978.6
35°	22836.0	22790.7	22348.2	21831.0	21486.8	21476.9	21624.4	21695.3	22696.3	21669.7	13283.4
37.5°	25074.1	25032.8	24433.0	23681.7	23197.8	23016.9	23191.9	23282.4	24374.0	23264.7	13773.2
40°	27280.8	27239.5	26883.5	26195.2	25449.8	25015.1	25152.8	25249.2	26468.6	25200.0	14390.7
42.5°	28803.1	28838.5	28962.4	29019.4	28321.2	27408.7	27471.6	27571.9	28669.4	27269.0	15096.8
45°	29204.3	29281.0	29981.2	31355.9	31617.5	30905.6	30246.7	30301.8	30905.6	29338.1	15802.9
47.5°	27998.7	28140.3	29491.5	32048.2	34262.8	34766.3	33519.4	33446.6	33051.3	31011.8	16304.4
50°	25259.0	25388.8	27139.2	30921.3	35065.2	38452.0	37441.1	37226.7	34933.5	32012.8	16481.4
52.5°	21294.0	21451.4	22873.3	27373.3	33552.8	40096.2	41154.3	40975.3	36314.1	32091.5	16510.9
55°	15037.8	15228.6	16733.1	20979.4	28759.8	38788.3	42470.1	42417.0	37460.7	31883.0	16573.8
57.5°	8451.1	8588.8	10211.4	13448.7	21063.9	33784.9	41095.3	41447.3	38153.0	31521.1	16668.2
60°	3752.6	3789.9	4629.7	6694.8	12331.5	25819.5	37159.8	37753.8	37559.1	31037.3	16827.5
62.5°	2080.8	2049.4	2049.4	2783.0	5359.4	15983.8	30301.8	31283.2	35023.9	30465.0	16835.4
65°	1630.4	1600.9	1516.4	1528.2	2041.5	7094.1	20983.3	22727.8	30209.3	28787.4	16269.0
67.5°	1382.6	1357.1	1272.5	1239.1	1268.6	2340.4	11529.1	13340.5	22922.5	24427.1	14091.8
70°	1168.3	1150.6	1107.3	1066.0	991.2	1156.5	4411.4	5642.6	14125.2	16249.3	9619.4
72.5°	940.1	932.2	948.0	912.6	822.1	771.0	1508.5	1827.1	6344.7	7251.4	3963.0
75°	810.3	806.4	814.2	778.8	676.6	536.9	767.0	837.8	1789.7	1774.0	802.4
77.5°	527.1	533.0	674.6	658.9	582.2	357.9	397.3	428.8	542.8	407.1	243.9
80°	336.3	332.4	342.2	546.8	523.2	273.4	198.6	208.5	261.6	200.6	118.0
82.5°	204.5	200.6	224.2	255.7	263.5	190.8	121.9	123.9	163.2	129.8	62.9
85°	17.7	23.6	135.7	125.9	90.5	59.0	59.0	62.9	86.5	76.7	35.4
87.5°	0.0	0.0	23.6	35.4	19.7	21.6	21.6	23.6	33.4	33.4	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324974

CATALOG NUMBER: GLEON-SA0C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6	10199.6
2.5°	10207.4	10002.9	9589.9	9192.6	8856.3	8531.8	8162.0	7796.2	7625.1	7556.3	7485.5
5°	10225.1	9804.3	8952.7	8095.2	7206.2	6405.7	5723.3	5023.1	4673.0	4519.6	4448.8
7.5°	10248.7	9607.6	8230.9	6791.2	5359.4	4273.8	3325.8	2716.1	2452.5	2411.2	2309.0
10°	10252.7	9369.6	7393.0	5351.5	3593.3	2576.4	1982.5	1667.8	1551.8	1532.1	1498.7
12.5°	10260.5	9088.4	6462.7	3963.0	2395.5	1722.9	1433.8	1329.5	1298.1	1296.1	1296.1
15°	10284.2	8793.4	5497.1	2855.7	1720.9	1364.9	1258.7	1217.4	1205.6	1211.5	1209.6
17.5°	10284.2	8445.2	4549.1	2128.0	1390.5	1227.3	1168.3	1140.7	1136.8	1142.7	1144.7
20°	10209.4	8022.4	3679.8	1656.0	1233.2	1138.7	1085.6	1060.1	1050.2	1054.2	1056.1
22.5°	10030.4	7503.2	2971.8	1370.8	1128.9	1058.1	1001.1	961.7	946.0	948.0	948.0
25°	9751.2	6887.6	2324.7	1186.0	1044.3	971.6	904.7	859.5	849.6	847.7	851.6
27.5°	9393.2	6207.1	1850.7	1044.3	944.0	875.2	808.3	771.0	763.1	765.1	767.0
30°	9041.2	5501.0	1459.3	924.4	831.9	767.0	715.9	698.2	698.2	704.1	706.1
32.5°	8718.6	4822.5	1154.5	820.1	731.6	672.6	643.1	641.2	651.0	654.9	656.9
35°	8441.3	4195.1	955.8	739.5	653.0	601.8	592.0	599.9	611.7	619.5	621.5
37.5°	8244.6	3634.6	835.9	672.6	592.0	550.7	548.7	564.5	580.2	597.9	601.8
40°	8162.0	3160.6	753.3	613.6	542.8	511.4	505.5	527.1	556.6	582.2	586.1
42.5°	8093.2	2773.1	682.5	556.6	503.5	458.3	456.3	483.8	519.2	544.8	550.7
45°	8034.2	2462.4	617.6	495.6	452.4	393.4	399.3	434.7	462.2	489.7	495.6
47.5°	7912.2	2206.7	546.8	430.7	373.7	336.3	348.1	379.6	401.2	442.5	448.4
50°	7693.9	1998.2	474.0	352.0	304.8	291.1	308.8	330.4	357.9	393.4	397.3
52.5°	7546.4	1840.9	411.1	295.0	251.7	255.7	273.4	281.2	297.0	310.7	306.8
55°	7461.9	1754.3	359.9	255.7	214.4	226.2	230.1	220.3	212.4	198.6	192.7
57.5°	7452.0	1675.7	320.6	222.2	188.8	194.7	180.9	147.5	120.0	104.2	100.3
60°	7436.3	1579.3	289.1	186.8	167.2	159.3	129.8	80.6	57.0	53.1	53.1
62.5°	7265.2	1429.8	265.5	157.3	141.6	120.0	74.7	37.4	31.5	33.4	33.4
65°	6720.4	1221.4	241.9	127.8	112.1	86.5	37.4	21.6	11.8	13.8	13.8
67.5°	5713.4	973.5	216.3	98.3	84.6	55.1	21.6	9.8	0.0	0.0	0.0
70°	3825.3	603.8	182.9	68.8	55.1	33.4	15.7	2.0	0.0	0.0	0.0
72.5°	1467.2	326.5	147.5	41.3	35.4	23.6	9.8	0.0	0.0	0.0	0.0
75°	330.4	214.4	102.3	29.5	25.6	15.7	3.9	0.0	0.0	0.0	0.0
77.5°	125.9	155.4	59.0	19.7	17.7	9.8	0.0	0.0	0.0	0.0	0.0
80°	61.0	92.4	27.5	11.8	9.8	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	31.5	35.4	11.8	5.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	17.7	5.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	5.9	2.0	2.0	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
 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

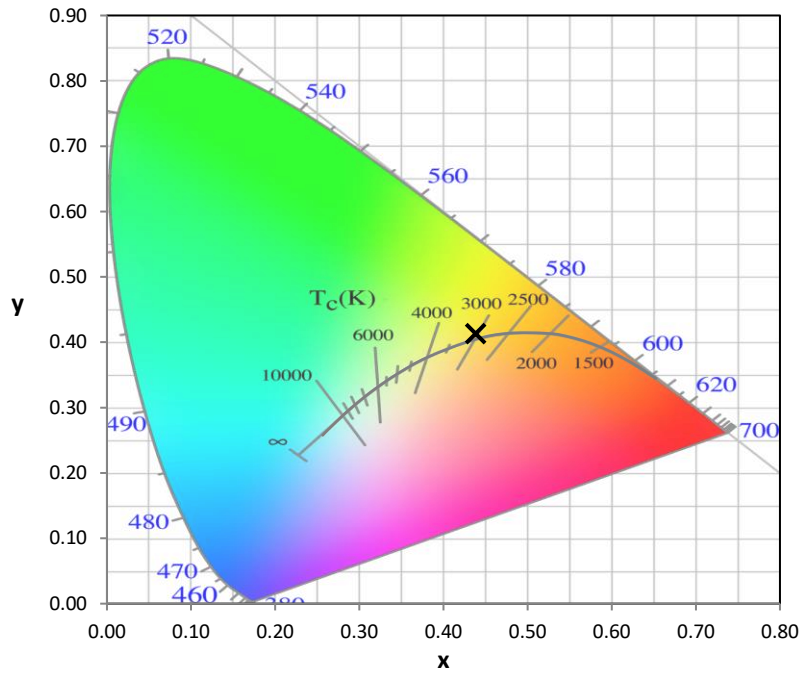
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

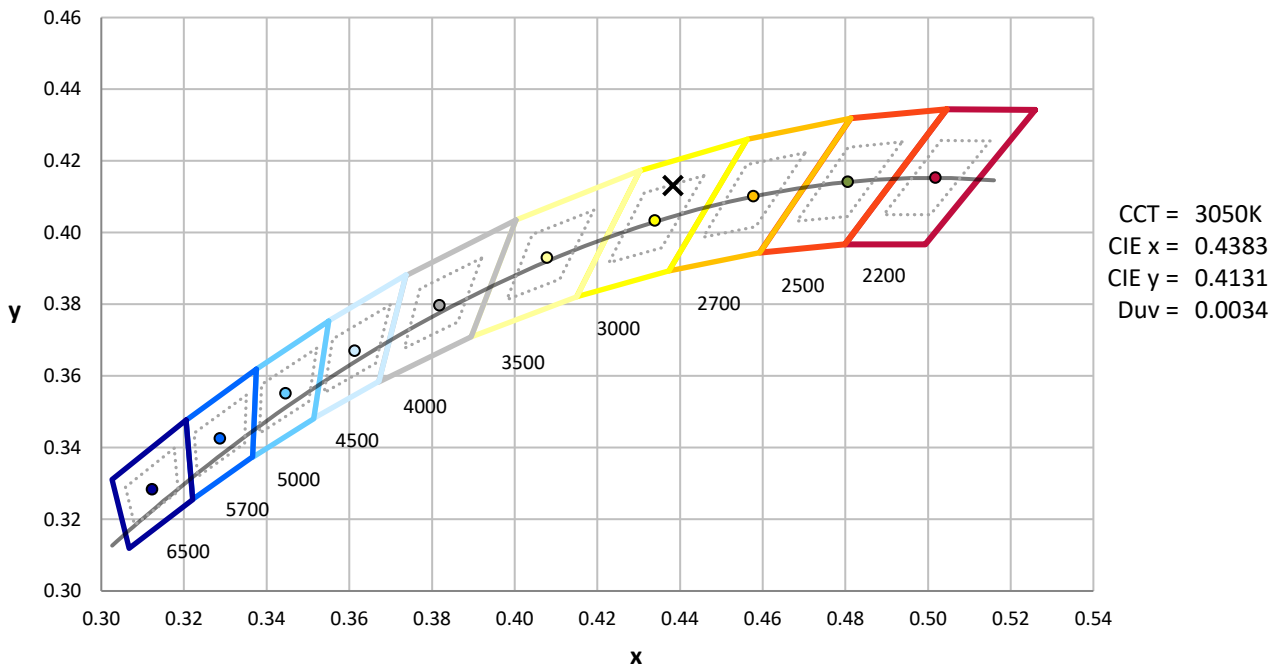
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

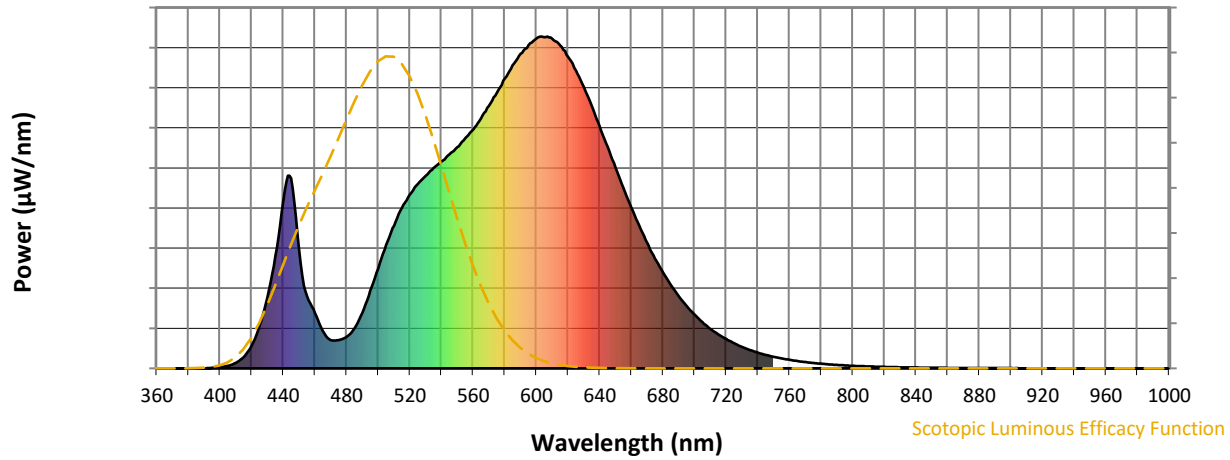


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



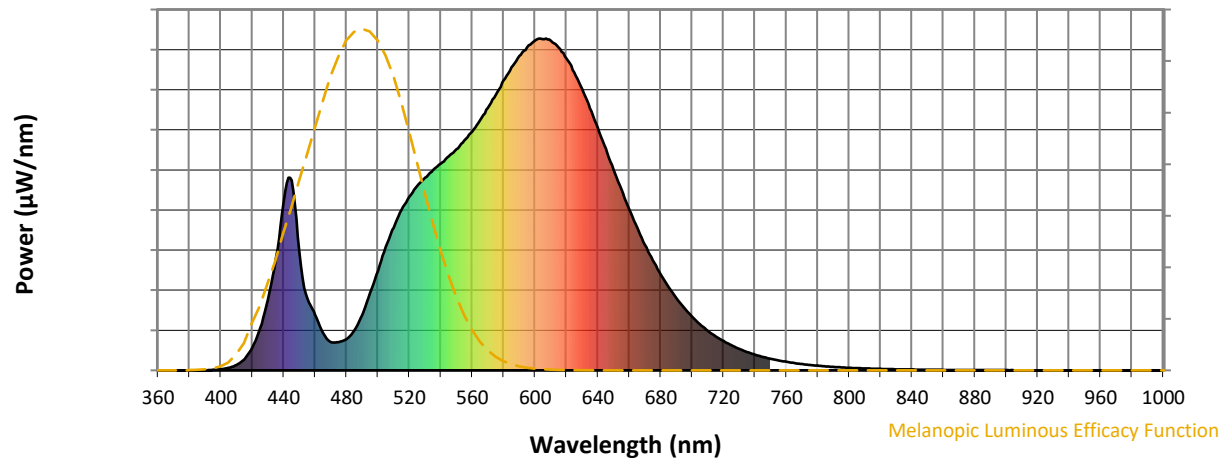
Scotopic Lumens: NR

S/P: 1.27

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

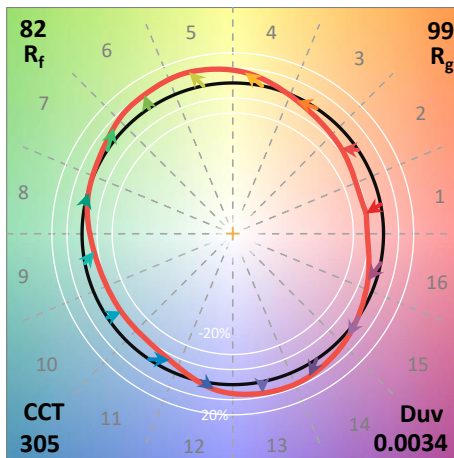
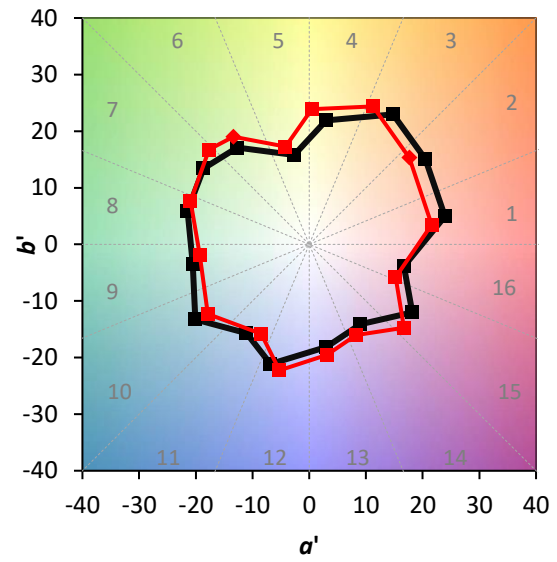
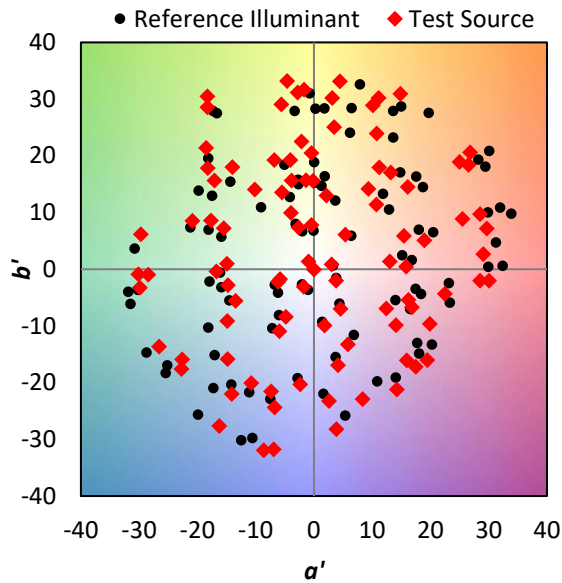
TM-30-18

Summary

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

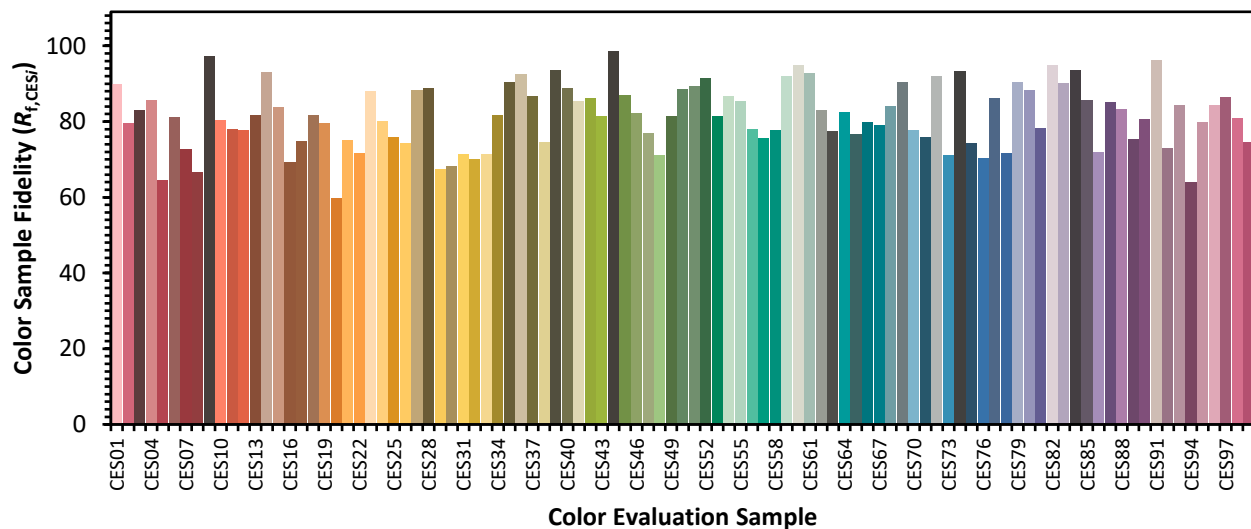


Color Vector Graphics

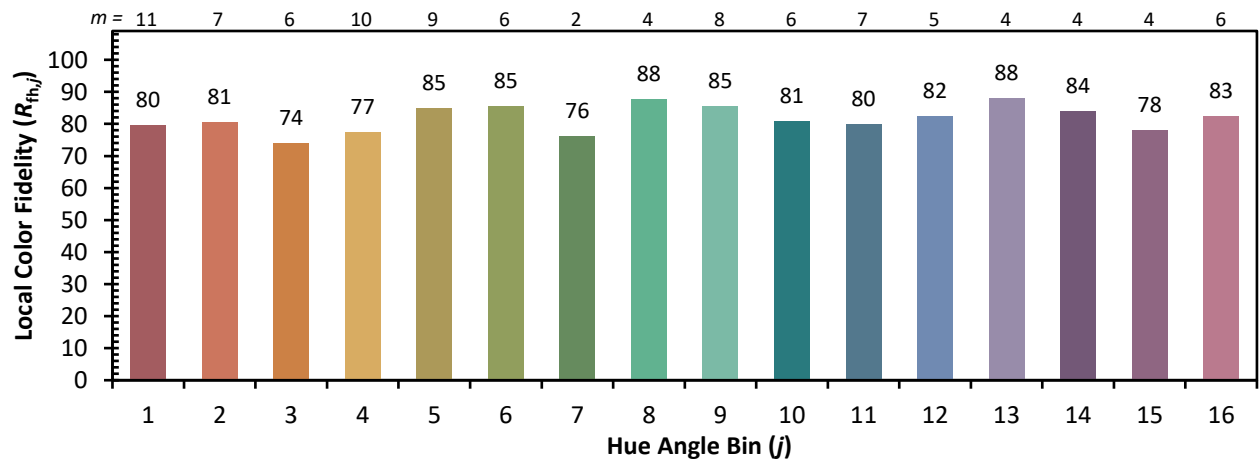
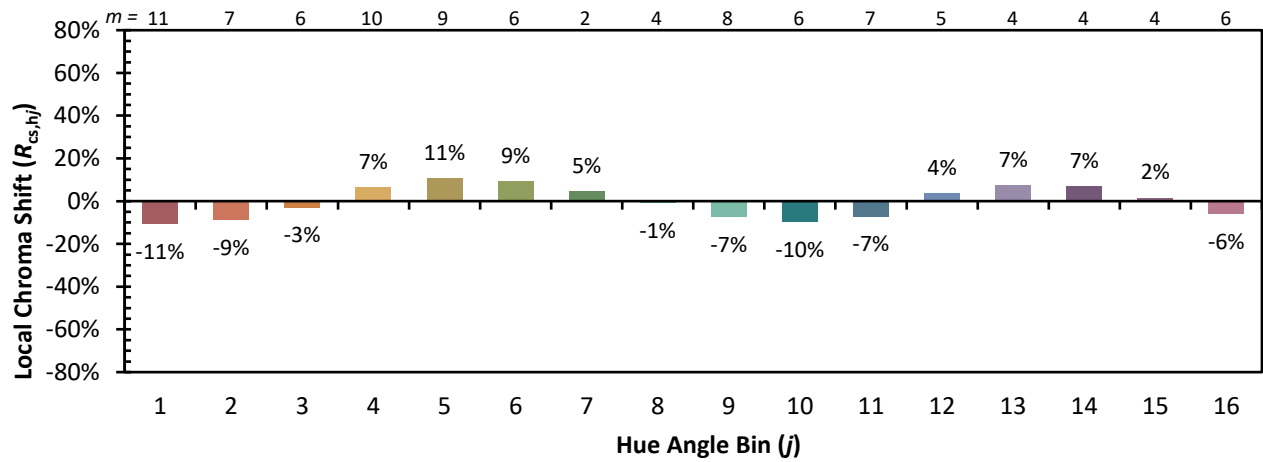


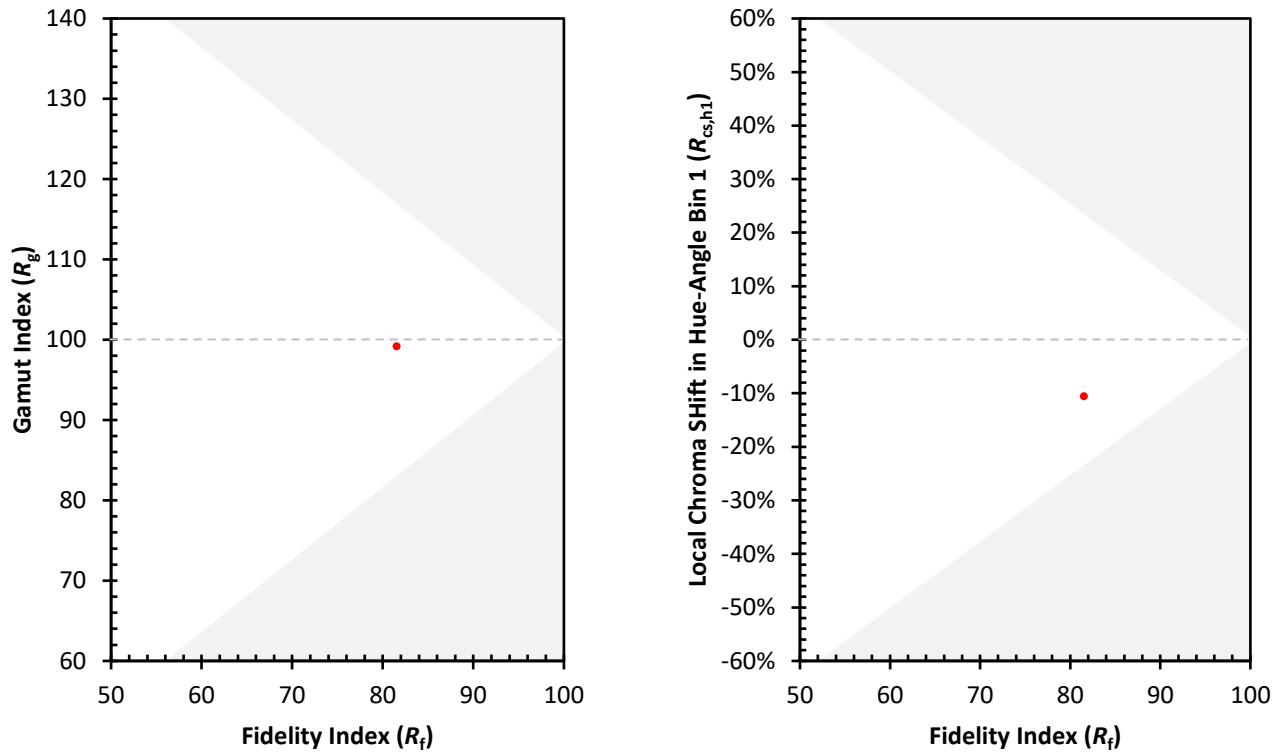
Individual Sample Fidelity Index ($R_{f,i}$)

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)