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: P319215

Luminaire Tested: **GLEON-SA1D-830-U-T4W**

Issue Date: 3/3/2020

Report Generated By E0585644

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P319215
	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-SA1D-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6410 lumens
Efficiency:	N/A
Efficacy:	95.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	67
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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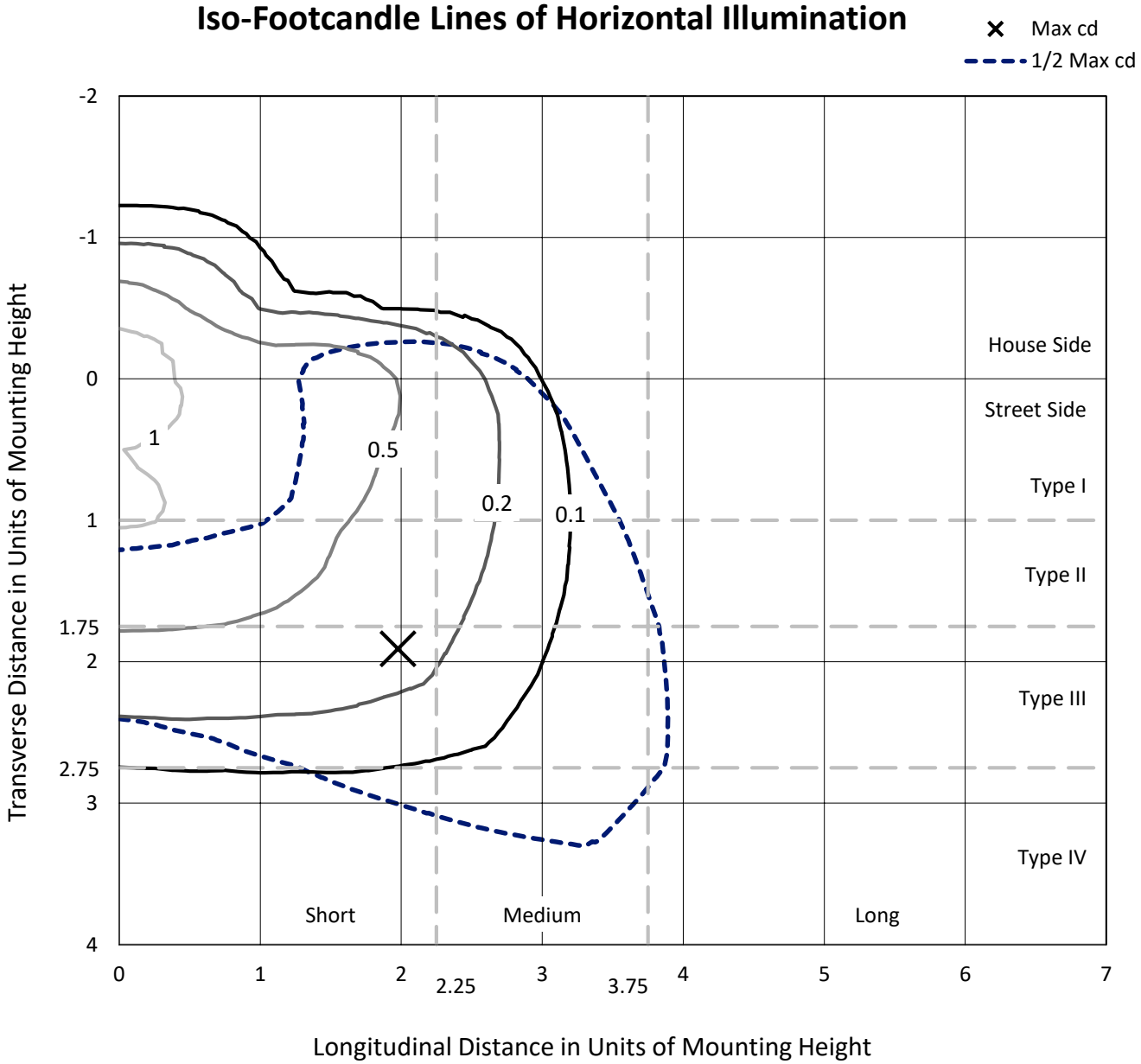
Scaled Data Report

REPORT NUMBER: P319215
CATALOG NUMBER: GLEON-SA1D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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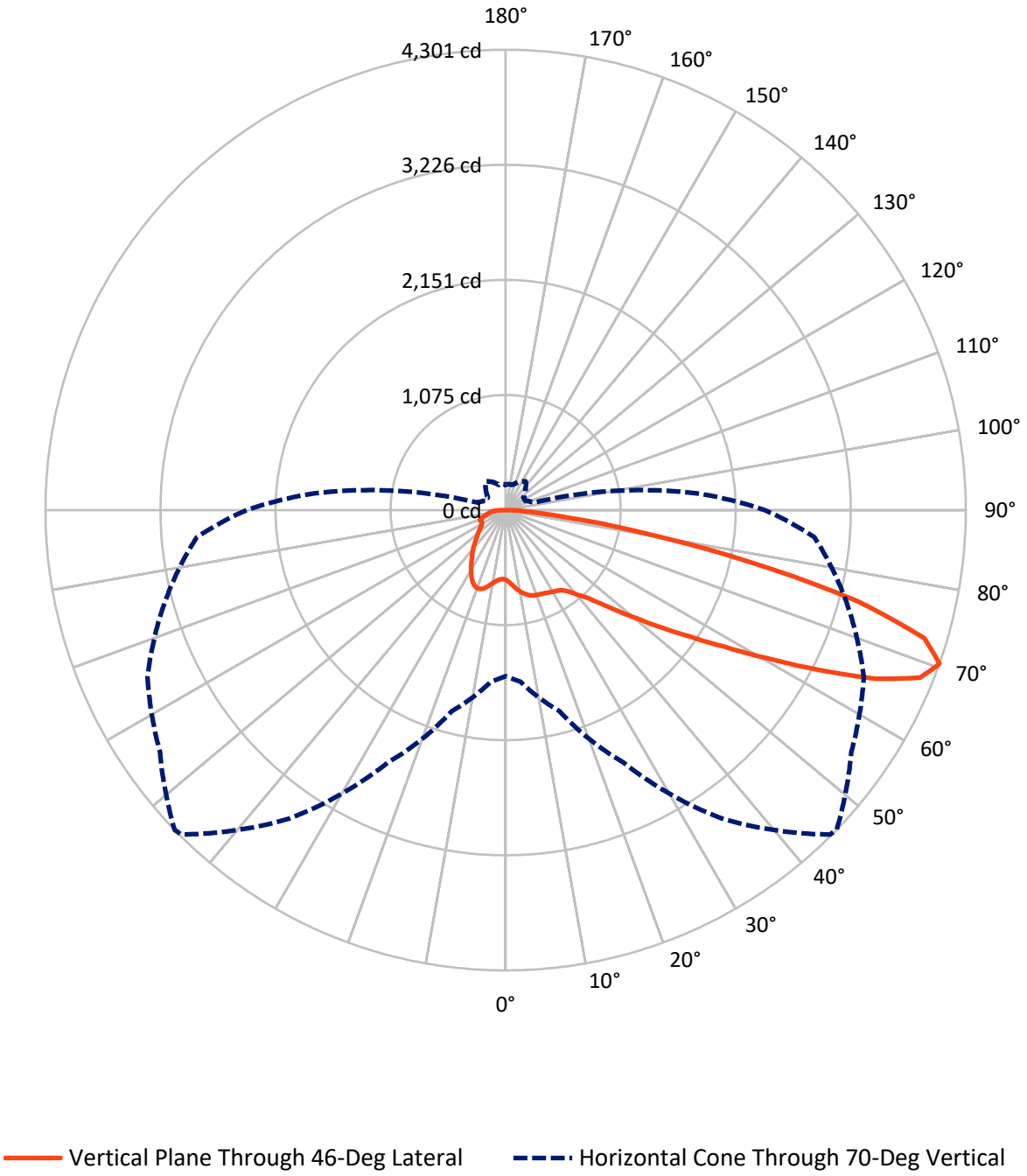
Luminous Intensity Polar Plot



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REPORT NUMBER: P319215
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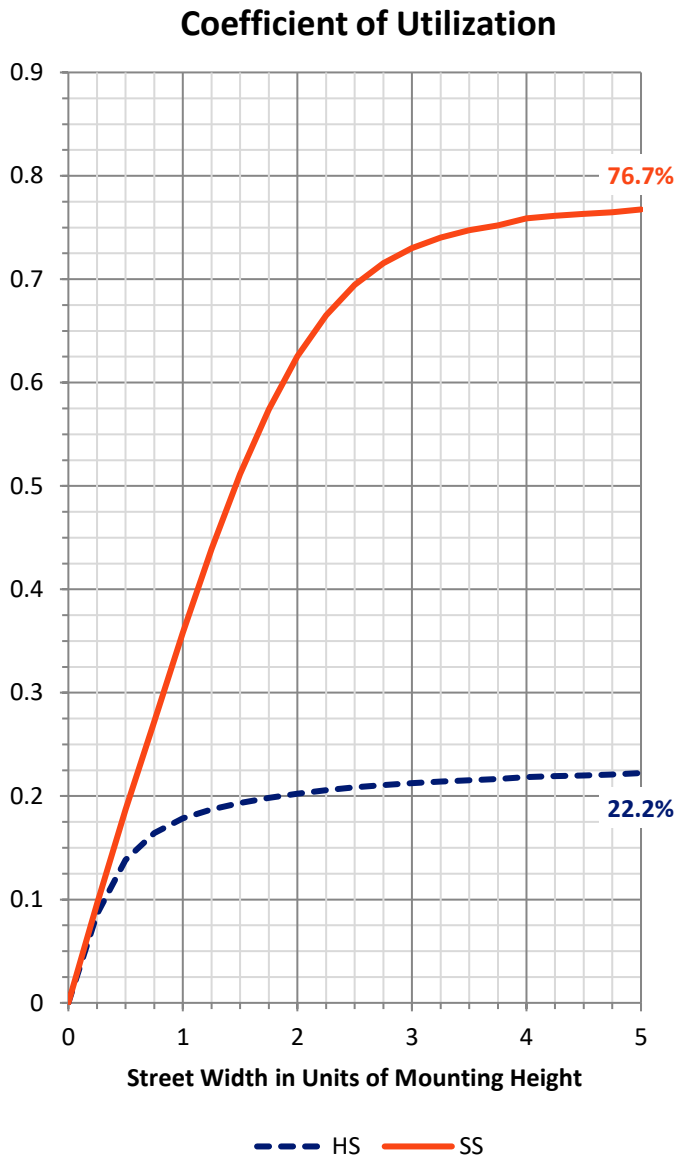
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.2	0.0	1469.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4940.8	0.0	4940.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6410.0	0.0	6410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.0
10°-20°	221.8	3.5
20°-30°	369.8	5.8
30°-40°	524.8	8.2
40°-50°	772.0	12.0
50°-60°	1307.3	20.4
60°-70°	1855.7	29.0
70°-80°	1127.4	17.6
80°-90°	164.5	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°	6410.0	100.0
0°-180°	6410.0	100.0



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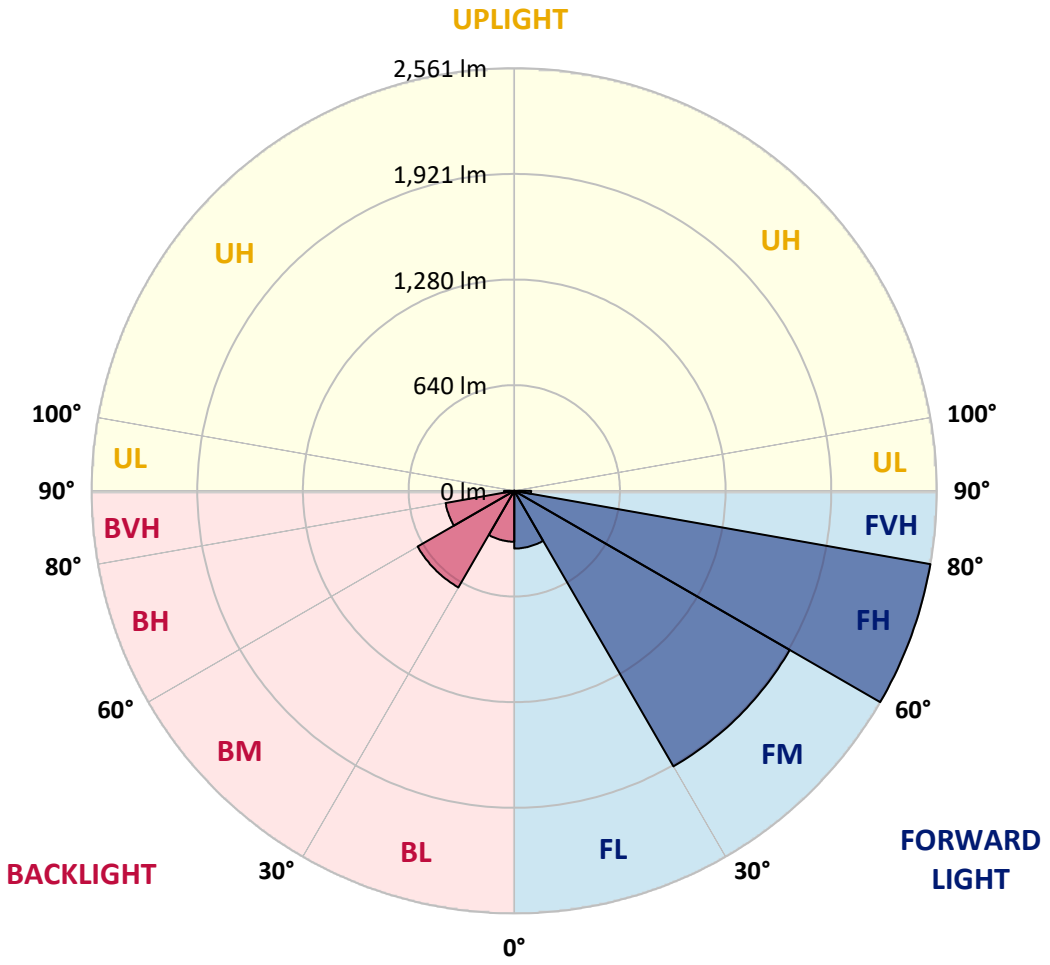
REPORT NUMBER: P319215
CATALOG NUMBER: GLEON-SA1D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	349.8	5.5			
FM	(30°-60°)	1927.8	30.1			
FH	(60°-80°)	2560.8	39.9			G2/5000
FVH	(80°-90°)	102.5	1.6			G2/225
BL	(0°-30°)	308.5	4.8	B1/500		
BM	(30°-60°)	676.3	10.6	B1/1000		
BH	(60°-80°)	422.4	6.6	B1/500		G1/500
BVH	(80°-90°)	62.0	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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Scaled Data Report

REPORT NUMBER: P319215
CATALOG NUMBER: GLEON-SA1D-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	653.1	653.1	653.1	653.1	653.1	653.1	*653.1*	653.1	653.1	653.1	653.1
2.5°	685.7	686.2	687.1	684.9	678.7	677.0	*676.3*	669.9	665.8	659.6	654.4
5°	740.6	741.0	739.7	733.6	720.0	709.9	*709.0*	694.5	681.4	667.3	656.8
7.5°	797.8	798.5	794.3	782.7	763.6	746.1	*745.0*	725.2	705.3	684.0	668.2
10°	848.5	845.9	839.1	822.8	800.2	778.8	*777.9*	757.3	734.2	708.6	687.5
12.5°	882.3	880.1	871.3	851.6	826.8	807.0	*805.3*	786.2	763.8	735.8	710.5
15°	900.9	902.5	890.6	868.3	844.1	827.4	*825.9*	812.3	792.4	764.1	735.1
17.5°	903.4	904.7	893.3	871.1	851.4	840.0	*839.3*	830.3	815.8	788.6	758.3
20°	889.3	890.2	880.8	862.5	849.6	846.1	*845.9*	841.9	831.2	807.0	777.7
22.5°	868.9	869.6	862.8	849.6	845.2	850.7	*852.2*	850.7	843.0	820.4	792.8
25°	863.9	863.4	856.4	843.0	846.8	858.4	*860.4*	861.0	855.7	836.0	812.1
27.5°	888.2	886.7	873.3	851.8	854.2	868.3	*870.9*	877.2	874.0	856.6	834.0
30°	958.6	956.0	928.6	885.1	873.3	880.5	*883.8*	893.9	894.6	880.1	863.2
32.5°	1077.5	1074.2	1025.1	947.4	905.5	893.0	*896.1*	911.2	919.4	908.2	890.0
35°	1227.8	1224.1	1159.6	1053.4	959.5	917.0	*919.1*	931.2	947.4	931.6	907.5
37.5°	1384.4	1375.4	1313.3	1178.0	1045.3	968.1	*968.1*	969.6	977.3	944.4	928.1
40°	1540.2	1531.2	1475.0	1324.5	1156.3	1048.6	*1043.5*	1009.5	1003.4	975.1	969.6
42.5°	1685.0	1682.3	1649.2	1490.2	1286.6	1127.8	*1120.7*	1063.0	1064.4	1046.8	1047.0
45°	1838.9	1838.9	1812.0	1657.3	1438.4	1255.0	*1248.0*	1163.1	1176.2	1168.1	1187.6
47.5°	1964.6	1968.6	1964.9	1831.5	1615.0	1416.7	*1403.9*	1301.7	1338.6	1366.4	1423.2
50°	2093.0	2099.1	2099.8	2022.6	1828.4	1608.8	*1594.4*	1485.8	1568.0	1647.9	1759.5
52.5°	2279.2	2293.0	2238.0	2213.2	2089.9	1837.0	*1822.7*	1722.5	1859.8	1971.9	2164.3
55°	2451.9	2439.8	2400.5	2415.9	2369.8	2096.7	*2086.0*	1998.0	2184.9	2330.5	2580.4
57.5°	2545.3	2544.4	2583.9	2649.7	2671.7	2417.0	*2408.0*	2322.4	2551.4	2660.9	2971.1
60°	2655.0	2656.5	2754.4	2903.8	2994.1	2815.8	*2811.8*	2746.9	2907.5	2969.3	3277.6
62.5°	2670.3	2698.0	2866.5	3123.6	3296.0	3281.7	*3290.5*	3129.3	3226.0	3215.5	3506.4
65°	2493.8	2530.2	2835.1	3190.0	3596.1	3791.3	*3799.4*	3513.8	3477.2	3425.8	3588.2
67.5°	2131.8	2185.8	2517.0	3045.5	3695.0	4168.0	*4179.4*	3811.9	3685.6	3497.1	3391.2
70°	*1551.4*	*1611.2*	*1944.7*	*2601.0*	*3518.6*	*4288.4*	*4301.3*	*3943.8*	*3693.5*	*3294.2*	*2895.0*
72.5°	937.1	984.1	1258.9	1914.8	2969.8	4069.0	*4092.1*	3776.6	3372.1	2790.3	2137.7
75°	411.5	442.2	608.7	1103.4	2126.1	3366.6	*3395.4*	3232.6	2739.9	2027.8	1263.6
77.5°	175.3	184.0	249.6	479.3	1201.9	2300.5	*2340.0*	2361.9	1858.9	1103.4	533.9
80°	109.2	112.8	141.3	217.0	562.5	1292.1	*1334.6*	1389.7	923.1	405.6	186.5
82.5°	66.5	70.4	93.9	131.2	292.9	585.7	*606.1*	644.9	358.2	175.3	96.5
85°	39.9	42.8	57.5	82.9	166.7	230.3	*230.1*	254.5	168.7	112.8	50.9
87.5°	19.1	21.3	30.7	43.0	84.0	86.4	*80.9*	91.7	102.4	73.9	25.7
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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Scaled Data Report

REPORT NUMBER: P319215
CATALOG NUMBER: GLEON-SA1D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1
2.5°	652.6	651.7	648.9	646.7	646.3	644.9	643.8	644.5	645.4	645.6	645.6
5°	652.4	650.0	646.3	644.7	646.7	649.3	652.6	657.0	659.6	661.6	662.9
7.5°	662.9	658.3	654.2	653.3	657.2	664.2	671.7	680.9	687.3	691.7	692.5
10°	680.5	674.8	670.6	671.5	678.5	688.6	699.1	711.0	720.6	726.5	727.0
12.5°	700.7	695.2	691.2	695.0	706.6	718.9	729.8	740.1	748.9	754.8	754.8
15°	723.9	720.0	715.4	723.9	739.7	750.7	755.3	760.3	765.1	769.5	768.7
17.5°	746.3	742.6	740.1	750.2	766.7	771.7	768.7	764.9	764.9	767.3	767.8
20°	765.6	762.3	763.8	773.7	782.3	777.0	765.6	753.7	748.9	750.2	751.5
22.5°	782.5	780.9	785.6	790.2	784.0	765.6	744.5	728.5	722.6	722.2	722.6
25°	802.2	802.0	807.7	799.4	772.2	738.2	709.9	694.3	691.0	693.6	698.0
27.5°	826.8	829.2	832.1	801.6	748.0	696.7	668.0	657.2	660.5	666.9	671.0
30°	858.2	864.7	858.6	796.1	713.4	649.3	621.9	618.8	627.8	636.8	641.2
32.5°	888.7	899.0	884.0	781.8	668.6	599.1	577.8	576.9	587.9	596.7	602.8
35°	913.2	933.6	903.1	753.5	616.9	552.8	537.2	531.3	535.3	545.6	552.6
37.5°	945.2	979.3	916.3	710.3	560.7	514.6	496.4	482.8	479.3	483.5	487.0
40°	1003.8	1048.8	922.4	650.0	505.9	476.5	458.0	438.1	424.3	414.2	414.4
42.5°	1099.5	1139.4	918.5	576.7	455.2	439.2	418.3	395.3	372.9	350.1	348.4
45°	1254.8	1274.1	906.6	499.1	410.7	400.1	380.6	357.6	327.7	301.8	299.4
47.5°	1503.3	1460.5	888.2	431.3	371.4	367.0	349.0	322.5	290.9	270.0	268.3
50°	1842.2	1729.7	879.2	377.3	336.7	338.0	323.3	295.3	265.4	250.1	248.3
52.5°	2247.6	2043.2	896.6	335.6	308.9	313.5	302.5	276.2	251.2	239.1	237.4
55°	2668.2	2367.8	915.2	305.4	282.5	291.5	287.8	266.1	243.5	232.3	230.8
57.5°	3028.1	2610.2	877.9	280.8	259.1	273.1	276.4	259.7	239.5	229.5	227.7
60°	3254.7	2707.9	780.1	257.8	240.4	258.4	269.8	258.0	241.1	240.2	238.9
62.5°	3362.2	2699.3	633.3	239.5	228.8	252.1	274.6	267.8	258.6	266.5	267.2
65°	3314.0	2570.3	471.6	227.5	220.5	254.5	289.1	286.5	263.7	271.6	272.7
67.5°	2996.3	2262.5	349.2	217.0	211.2	261.3	315.4	292.6	253.8	259.5	256.0
70°	*2421.8*	*1793.8*	*269.4*	*205.1*	*201.8*	*260.4*	*327.3*	*288.9*	*243.1*	*244.4*	*234.9*
72.5°	1670.0	1223.2	219.1	194.1	188.2	237.4	319.0	279.7	234.1	224.0	211.5
75°	908.2	656.6	186.2	182.7	164.3	208.4	303.6	273.1	225.9	212.6	205.5
77.5°	357.3	272.5	161.7	167.2	143.7	184.0	286.5	260.6	214.8	197.2	193.7
80°	145.9	139.1	134.0	144.6	123.5	161.0	265.9	245.9	201.4	183.0	175.9
82.5°	82.7	86.4	104.2	114.1	100.3	148.3	256.0	234.1	185.4	163.9	155.5
85°	42.3	50.7	72.6	81.8	73.7	126.1	235.8	204.9	148.7	125.5	126.1
87.5°	20.4	28.3	45.8	51.3	47.8	91.3	176.2	148.5	115.8	91.7	88.8
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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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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

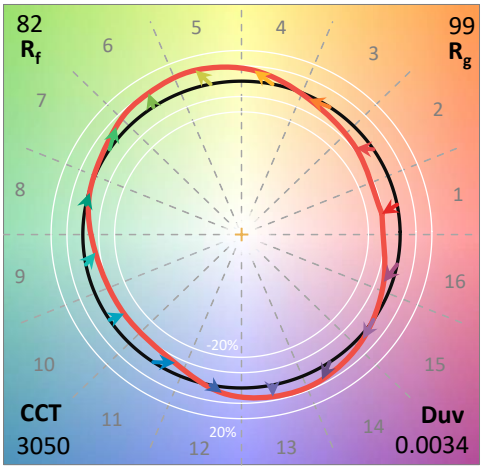
Test Information

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	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

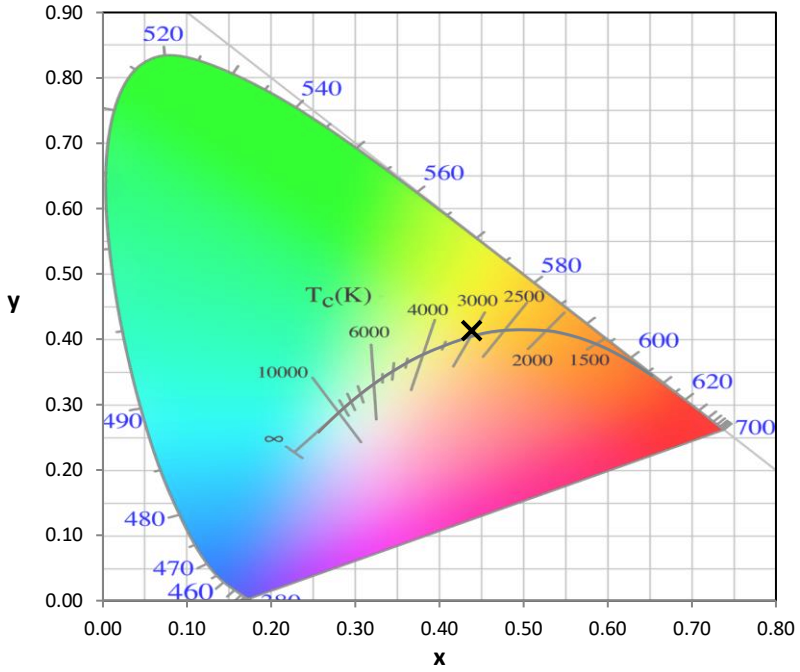
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

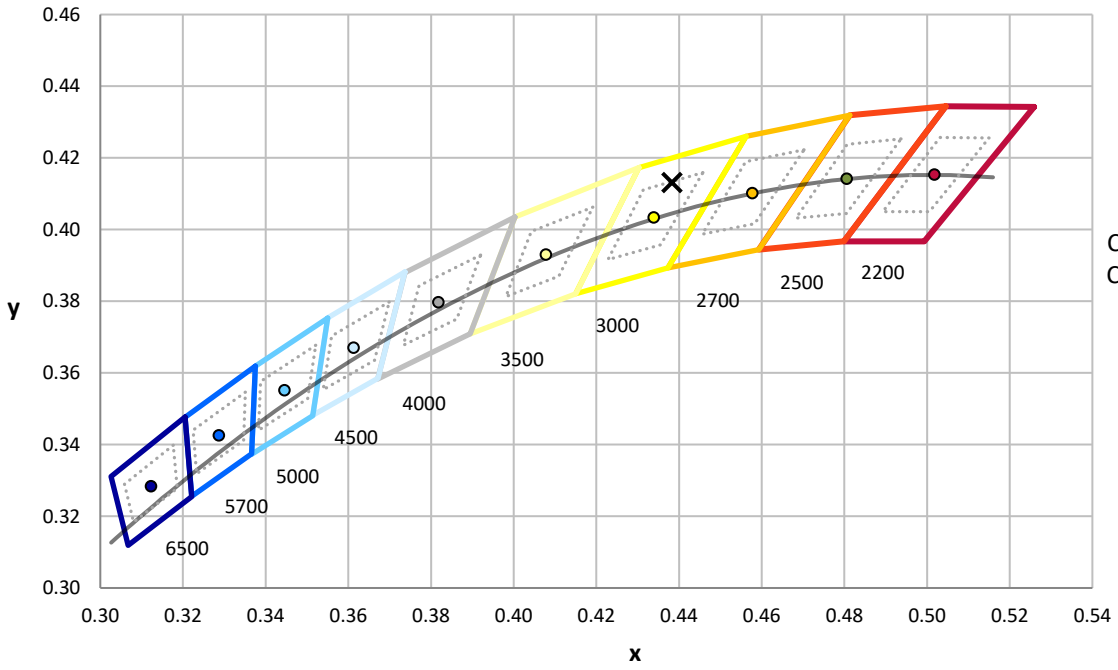
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

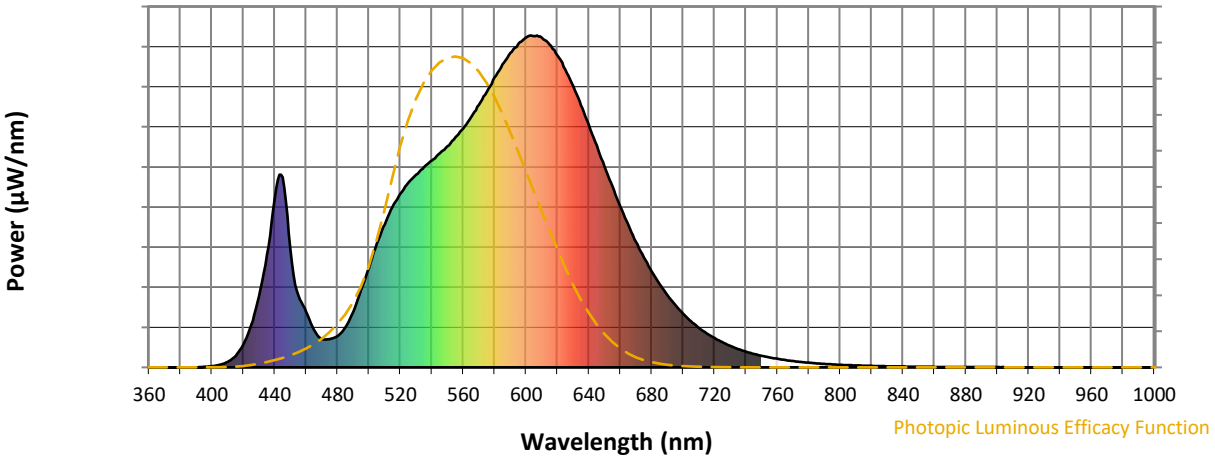


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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 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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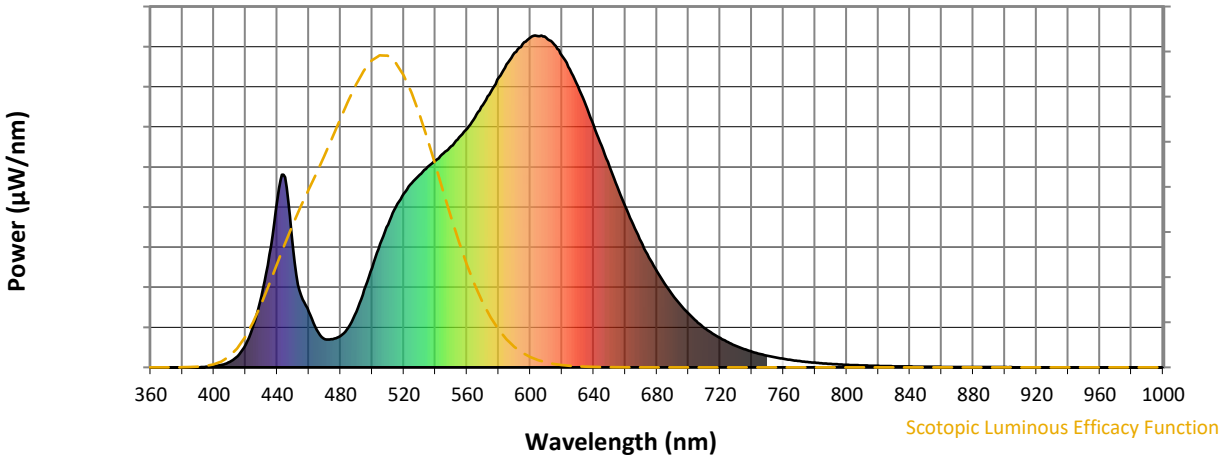
Scotopic Flux vs. Wavelength



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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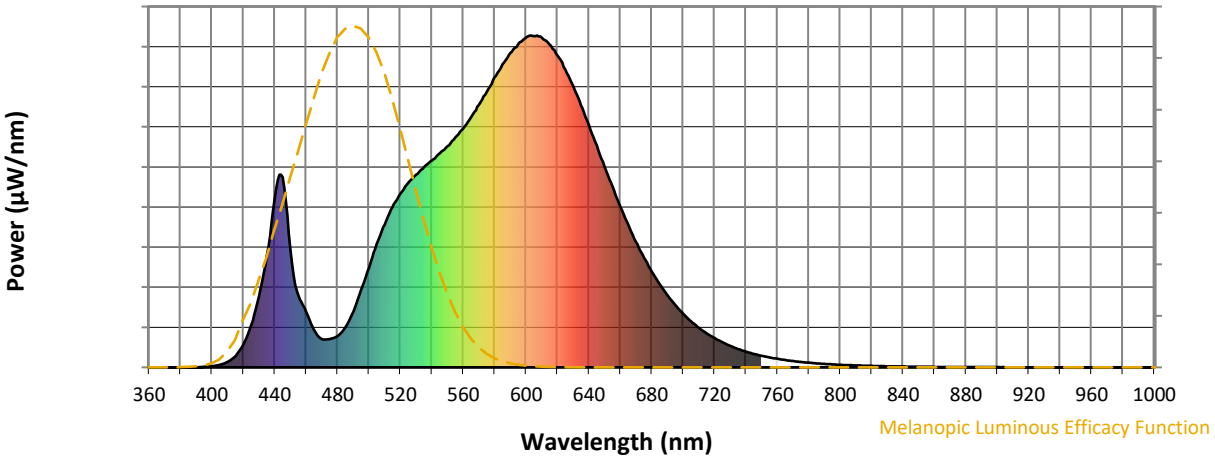
Melanopic Flux vs. Wavelength



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			

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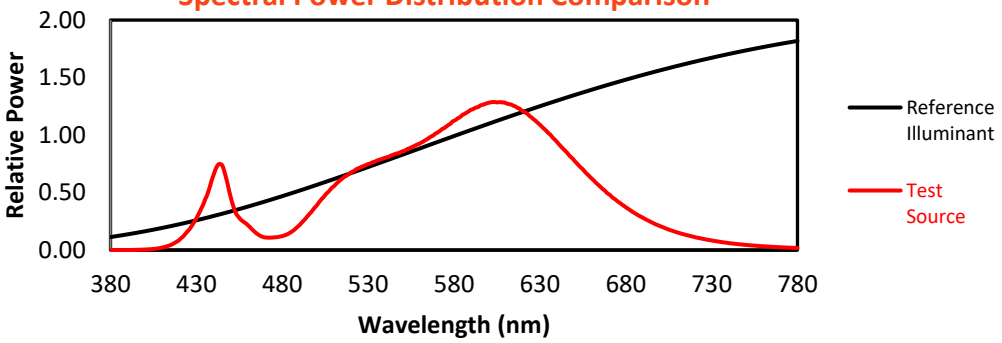
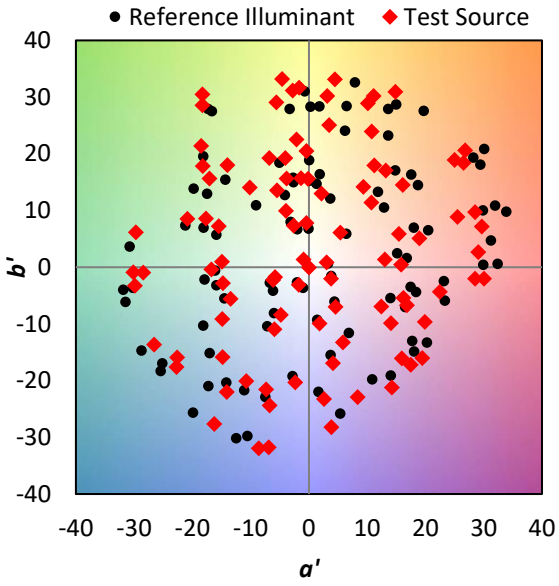
Summary

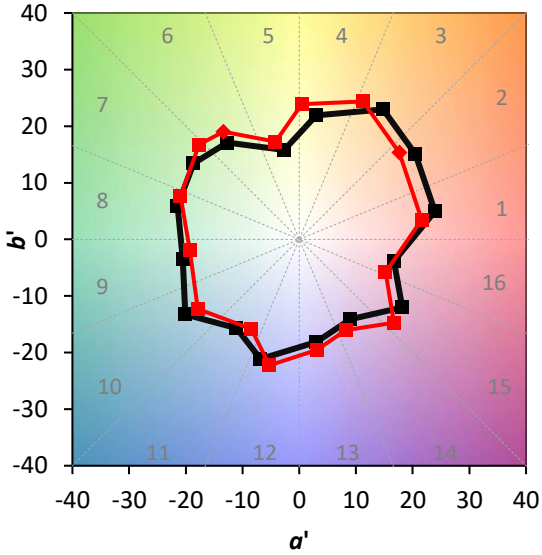
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

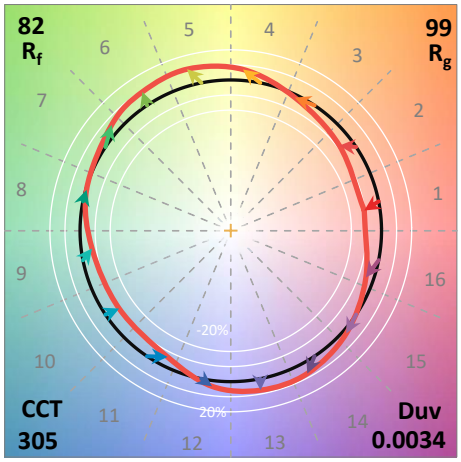
Spectral Power Distribution Comparison

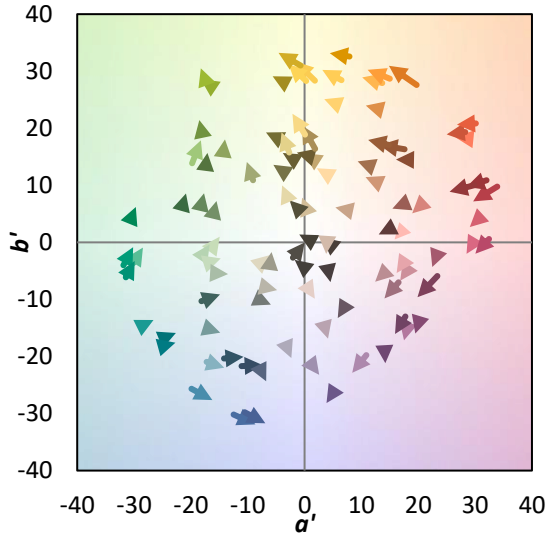


Color Vector Graphics









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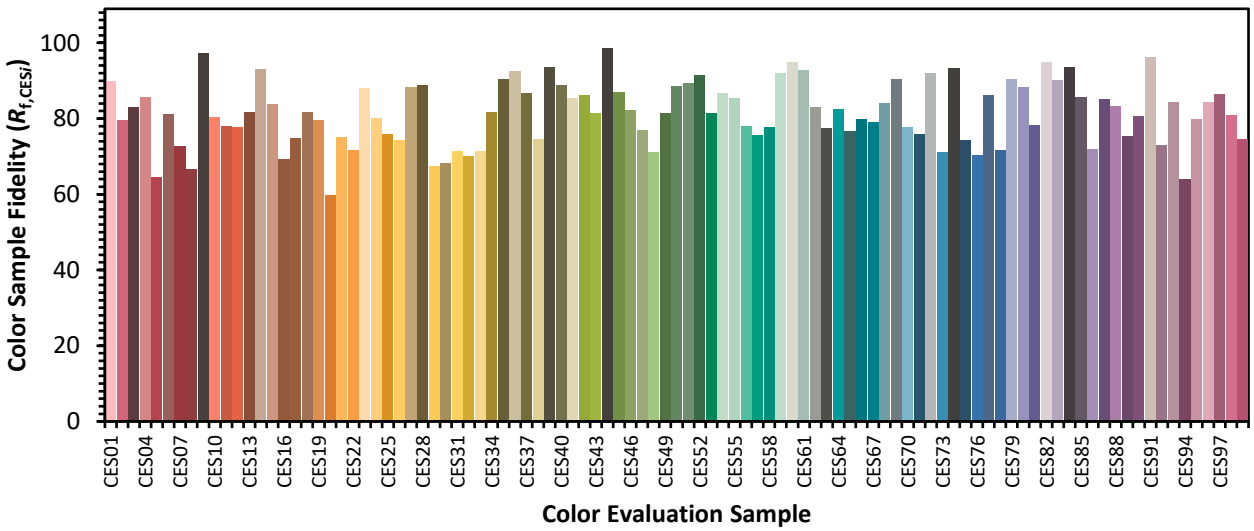
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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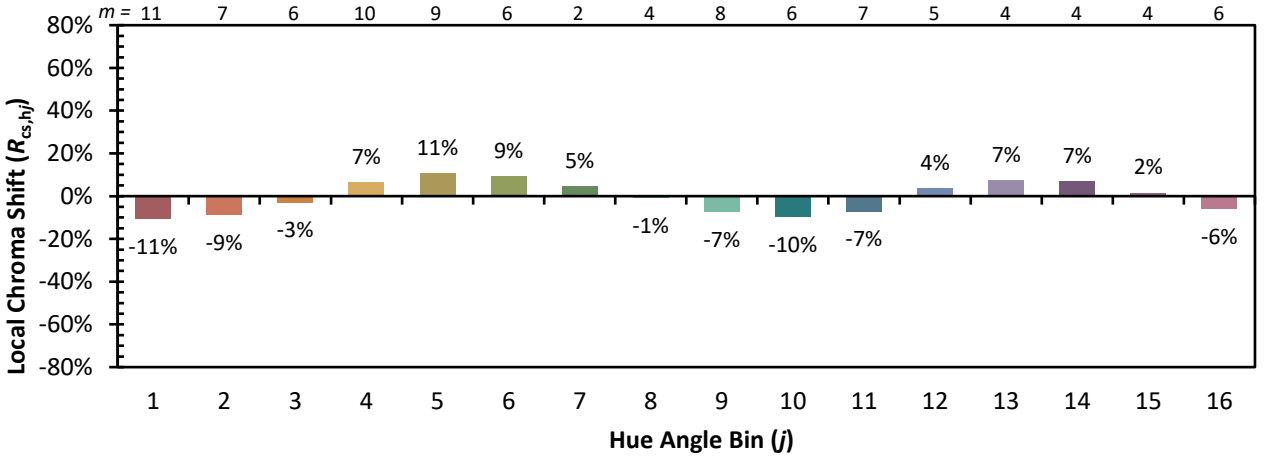
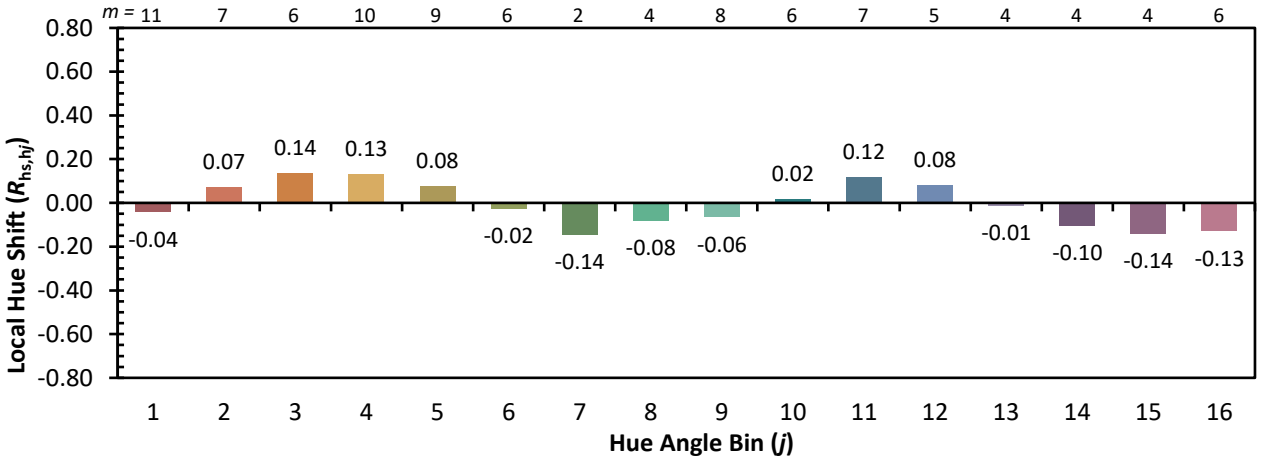
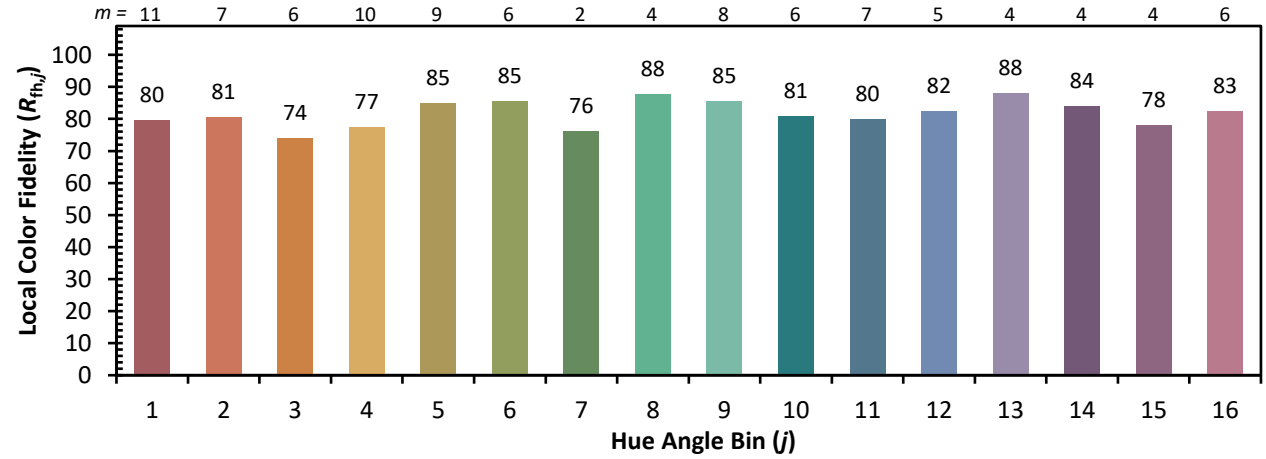
Color Rendition by Hue-Angle Bin







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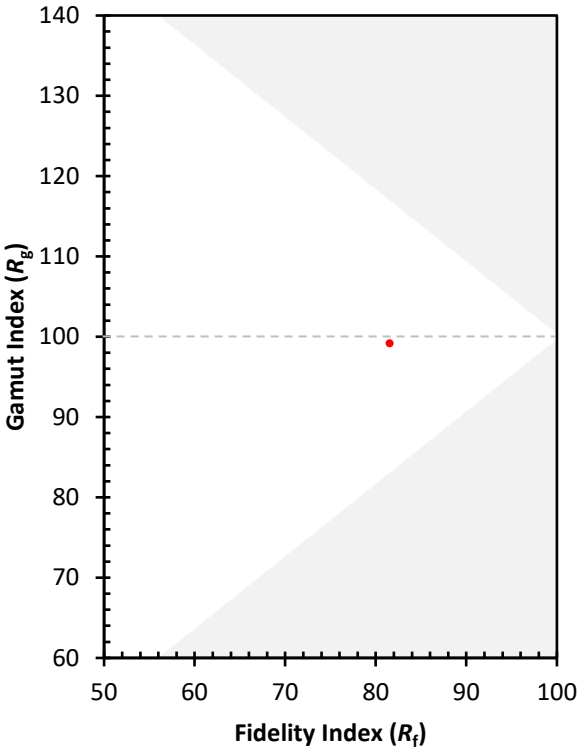
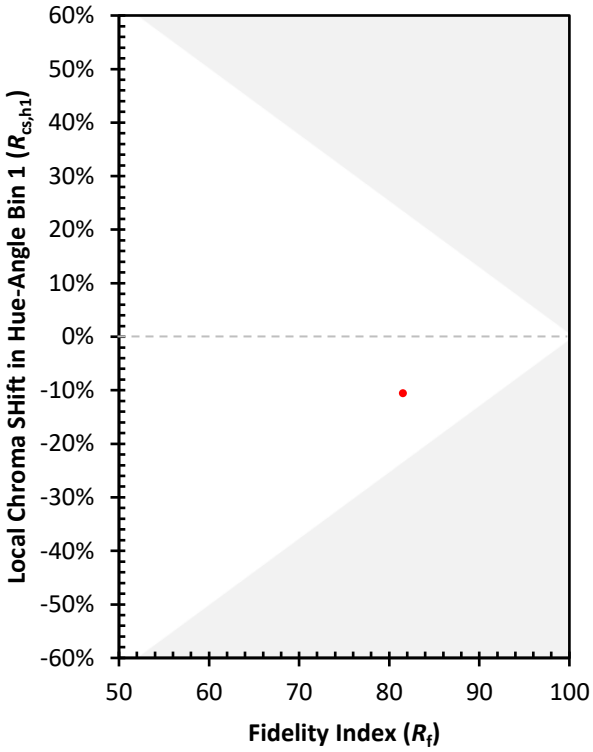
Measure Comparisons





(END OF REPORT)