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: P322709

Luminaire Tested: **GLEON-SA5A-830-U-T4FT-HSS**

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:	P322709
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5A-830-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13143 lumens
Efficiency:	N/A
Efficacy:	81.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	162
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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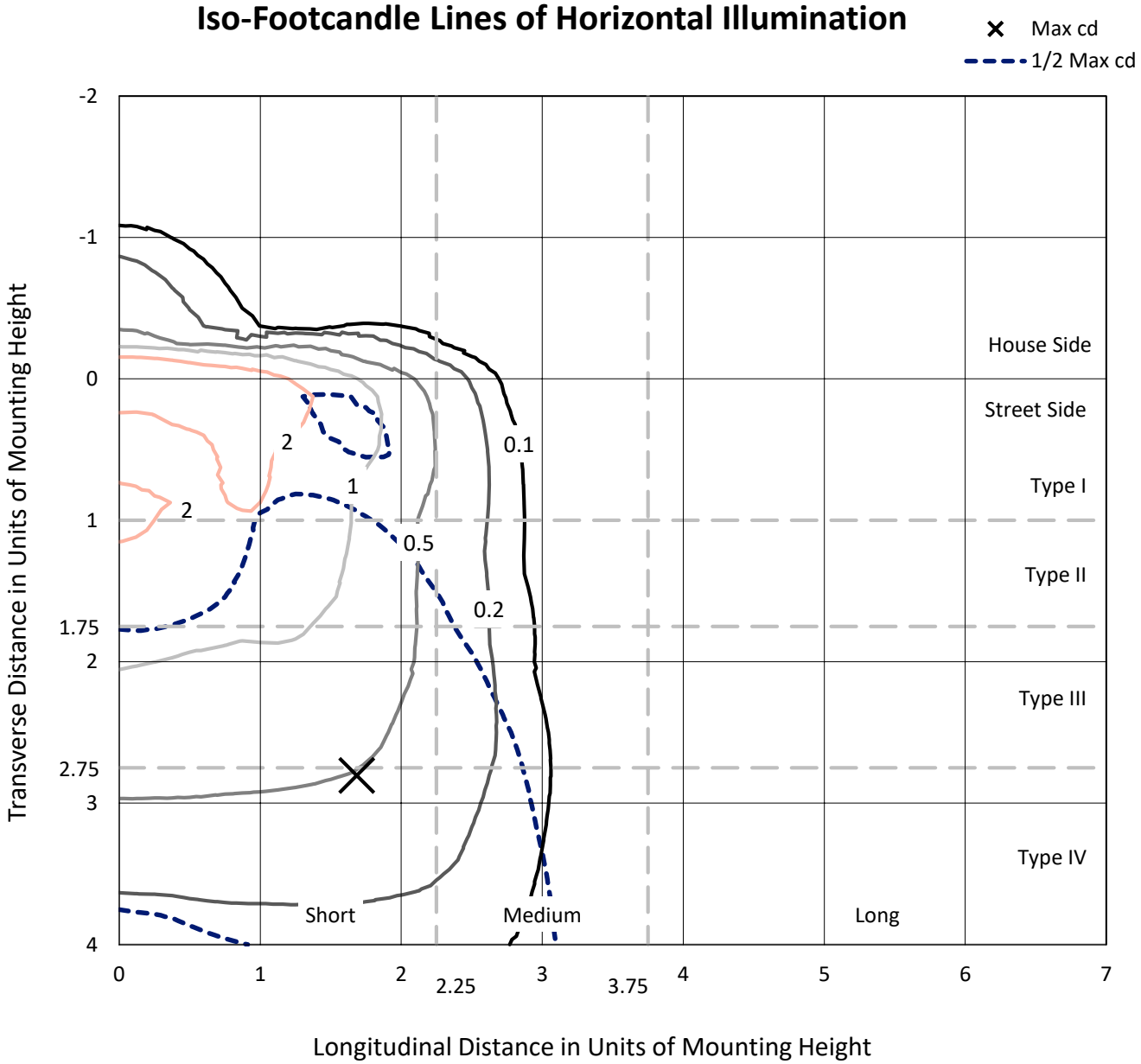
Scaled Data Report

REPORT NUMBER: P322709
CATALOG NUMBER: GLEON-SA5A-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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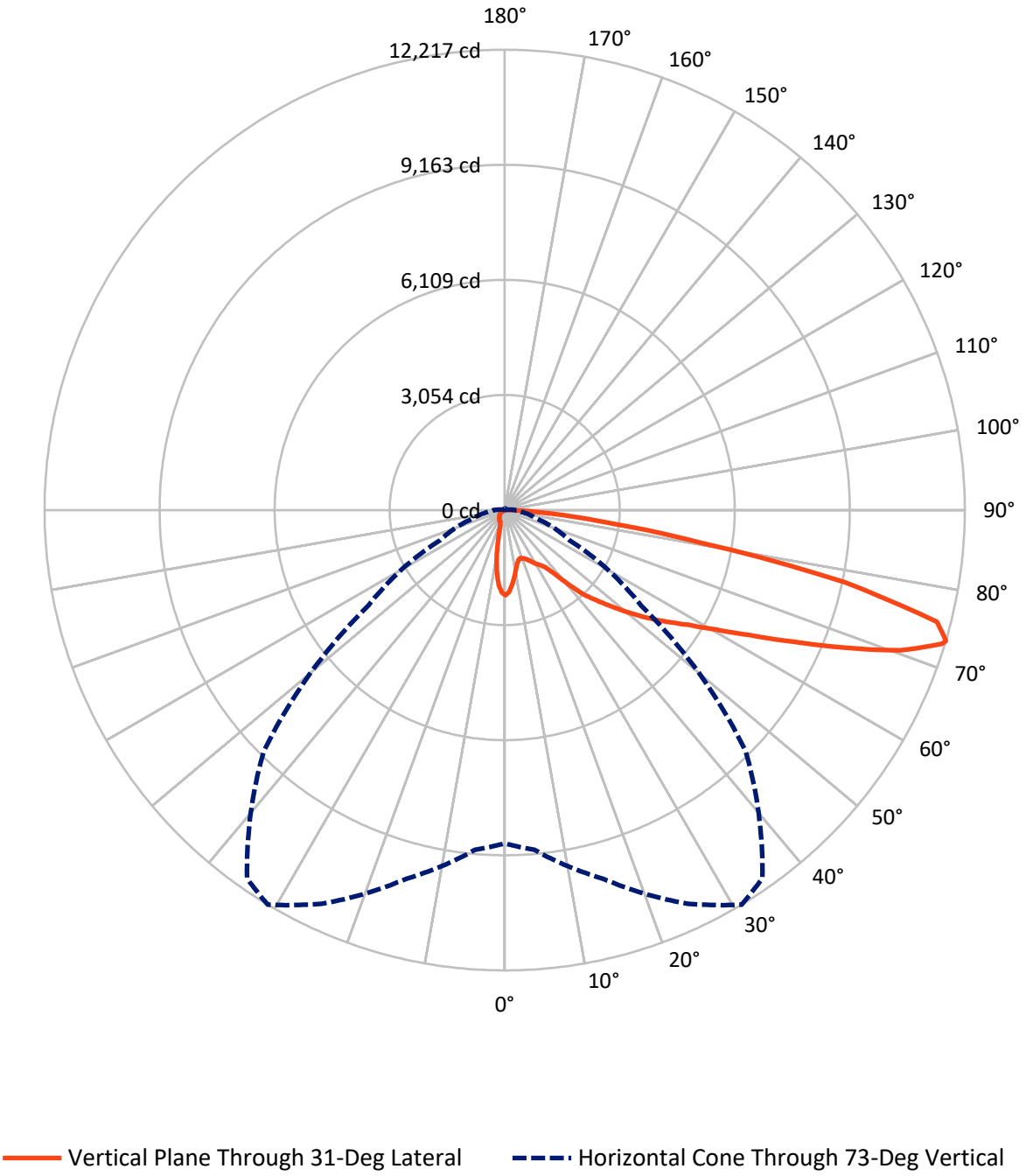
Luminous Intensity Polar Plot



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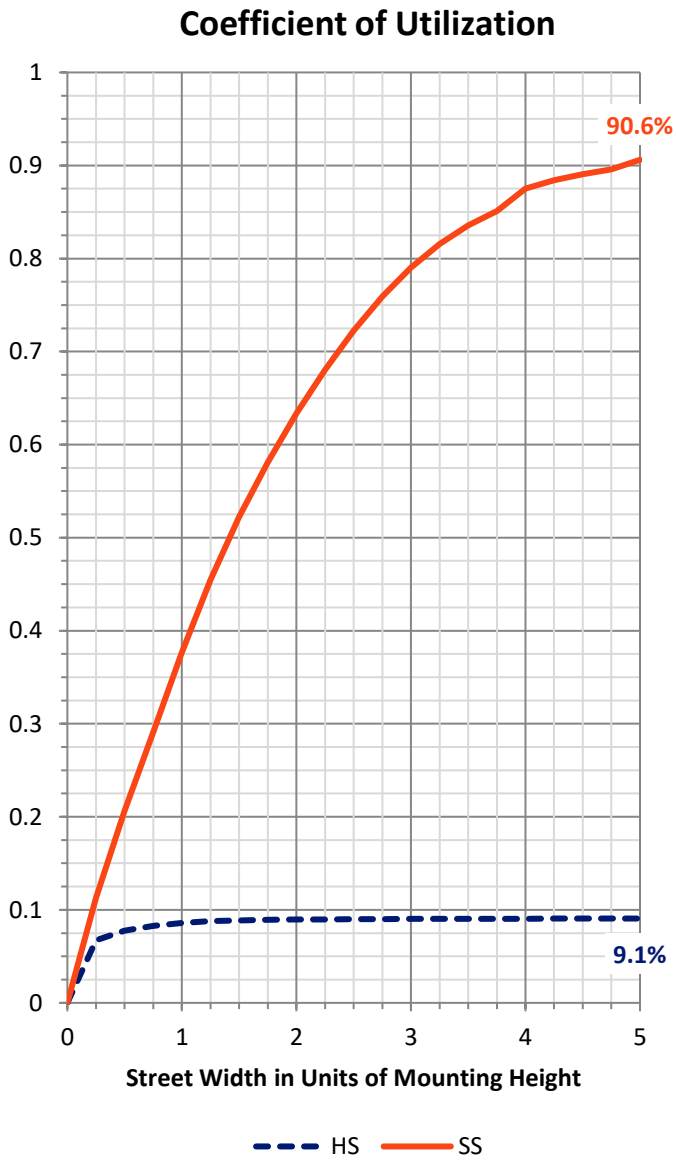
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.0	0.0	1198.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11945.0	0.0	11945.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	13143.0	0.0	13143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.4
10°-20°	407.1	3.1
20°-30°	610.0	4.6
30°-40°	970.4	7.4
40°-50°	1732.9	13.2
50°-60°	2689.0	20.5
60°-70°	3574.7	27.2
70°-80°	2688.9	20.5
80°-90°	282.5	2.1
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°	13143.0	100.0
0°-180°	13143.0	100.0



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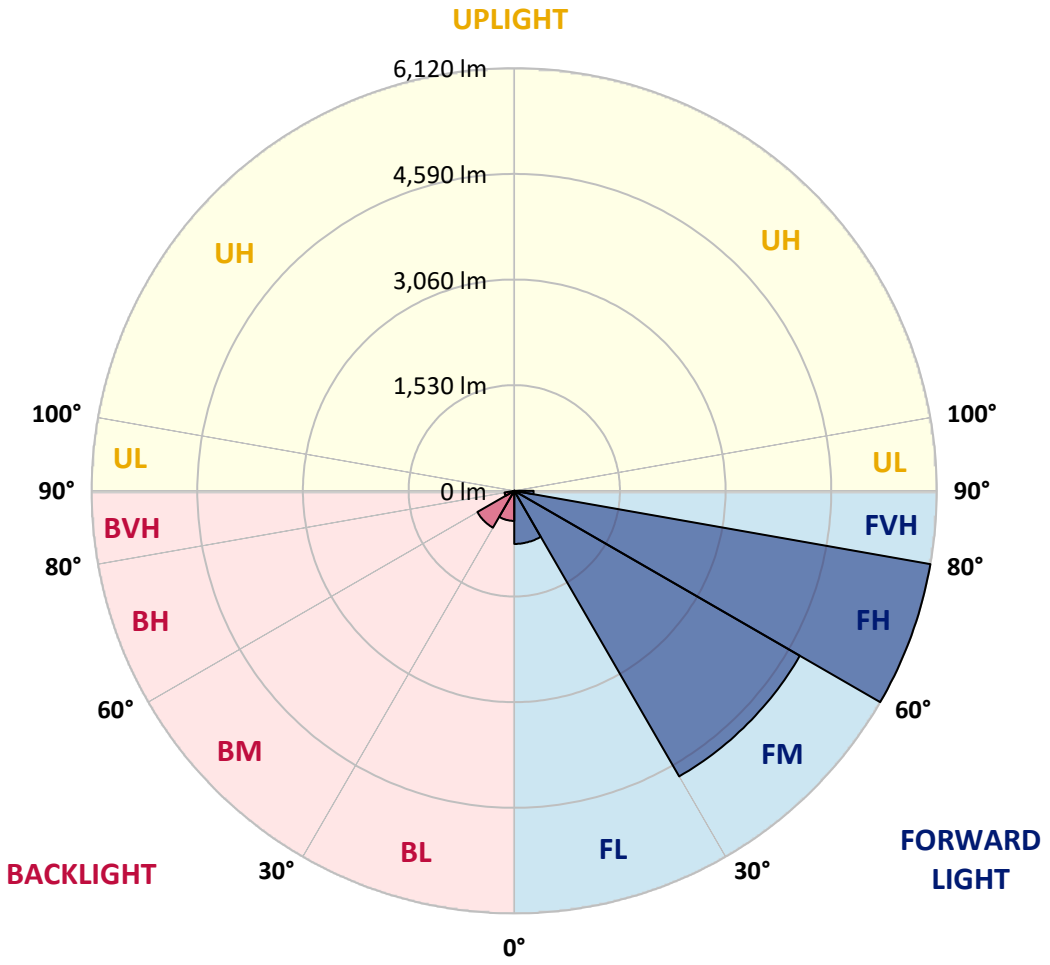
REPORT NUMBER: P322709
CATALOG NUMBER: GLEON-SA5A-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	768.9	5.9			
FM	(30°-60°)	4775.7	36.3			
FH	(60°-80°)	6120.2	46.6			G3/7500
FVH	(80°-90°)	280.2	2.1			G3/500
BL	(0°-30°)	435.7	3.3	B1/500		
BM	(30°-60°)	616.7	4.7	B1/1000		
BH	(60°-80°)	143.3	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type IV Short



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Scaled Data Report

REPORT NUMBER: P322709
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2261.3	2261.3	2261.3	2261.3	*2261.3*	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2142.9	2151.9	2161.6	2163.5	*2179.6*	2180.2	2203.4	2220.8	2238.1	2254.8	2260.6
5°	1923.0	1937.8	1955.1	1972.5	*2006.6*	2020.1	2076.7	2134.6	2189.9	2242.6	2268.4
7.5°	1688.2	1705.0	1729.4	1772.5	*1810.4*	1836.8	1926.2	2029.1	2132.0	2229.1	2285.1
10°	1474.1	1489.5	1515.2	1560.9	*1619.4*	1655.4	1775.7	1918.5	2069.6	2216.9	2310.2
12.5°	1337.7	1346.1	1360.2	1409.1	*1461.9*	1502.4	1643.9	1820.7	2018.2	2216.3	2350.7
15°	1312.6	1315.2	1303.6	1325.5	*1366.7*	1405.9	1549.3	1741.6	1978.9	2226.6	2403.4
17.5°	1352.5	1351.2	1312.6	1310.1	*1342.9*	1375.0	1503.0	1687.0	1951.3	2250.3	2471.6
20°	1413.0	1408.5	1341.6	1329.4	*1364.1*	1394.3	1499.8	1666.4	1941.0	2290.2	2554.6
22.5°	1493.4	1485.7	1380.8	1368.0	*1405.3*	1436.8	1539.7	1686.3	1950.0	2343.6	2651.0
25°	1593.1	1581.5	1448.4	1434.2	*1472.1*	1503.7	1611.1	1743.6	1977.0	2408.6	2773.2
27.5°	1705.6	1688.9	1556.4	1519.7	*1562.8*	1595.6	1706.3	1831.0	2019.5	2477.4	2923.1
30°	1811.7	1789.9	1670.2	1609.8	*1662.5*	1699.2	1809.2	1935.2	2087.6	2583.5	3128.2
32.5°	1918.5	1894.0	1771.9	1699.8	*1747.4*	1787.3	1915.3	2078.6	2215.6	2745.6	3400.9
35°	2164.2	2138.4	1988.6	1869.6	*1869.0*	1891.5	2063.8	2274.8	2384.8	2971.3	3726.4
37.5°	2577.7	2562.9	2420.1	2194.4	*2133.9*	2108.9	2266.4	2508.9	2627.9	3281.9	4093.6
40°	3030.5	3017.6	2857.5	2653.0	*2561.0*	2499.2	2557.1	2835.0	2971.3	3661.4	4468.5
42.5°	3541.8	3480.7	3195.1	3134.0	*3051.7*	3004.7	2952.7	3236.9	3393.2	4074.3	4840.3
45°	4006.1	3903.2	3532.8	3440.2	*3421.5*	3433.1	3462.0	3777.2	3867.8	4565.0	5210.7
47.5°	4282.7	4201.6	3917.4	3828.6	*3823.5*	3900.0	4118.7	4387.5	4340.6	4992.7	5536.8
50°	4545.7	4472.4	4236.4	4258.2	*4282.0*	4386.2	4864.1	5015.2	4772.1	5380.5	5835.9
52.5°	4758.6	4646.7	4523.2	4646.0	*4763.1*	4931.0	5633.3	5578.6	5078.2	5689.2	6091.8
55°	4881.4	4830.6	4890.4	5013.9	*5233.9*	5506.6	6359.4	6047.4	5302.0	5970.9	6262.3
57.5°	5331.6	5231.9	5350.9	5457.7	*5744.5*	6125.9	6981.3	6396.7	5463.5	6145.2	6301.5
60°	5876.4	5796.0	5866.1	6043.6	*6430.8*	6879.0	7562.7	6681.6	5547.7	6257.1	6199.9
62.5°	6743.3	6637.2	6593.5	6792.2	*7305.4*	7794.9	8003.9	6879.0	5529.1	6207.6	5851.3
65°	7904.8	7794.9	7599.3	7779.4	*8432.2*	8777.6	8497.2	6920.8	5400.4	5806.9	4970.2
67.5°	9094.6	9014.9	8847.7	9151.2	*9740.4*	9851.6	9018.8	6819.2	4986.3	4708.4	3511.5
70°	9880.6	9846.5	9955.2	10626.6	*11152.0*	11119.9	9497.2	6273.2	3886.5	2895.4	1737.1
72.5°	9314.0	9477.3	10279.9	11497.4	*12139.3*	11876.9	9251.6	4817.1	2221.4	1113.9	502.3
73°	*8844.5*	*9053.5*	*10134.0*	*11530.2*	*12217.1*	*11929.6*	*9045.1*	*4421.6*	*1893.4*	*879.2*	*380.7*
75°	6152.9	6409.5	8389.8	10738.5	*11853.1*	11366.2	7539.5	2706.3	877.2	389.7	153.7
77.5°	2987.4	3177.1	4619.7	7758.8	*9218.1*	8880.5	4693.6	1008.4	396.2	243.8	70.7
80°	1115.2	1240.0	2005.3	3948.9	*5327.1*	5466.7	2064.5	381.4	263.7	196.2	36.0
82.5°	292.0	325.4	739.6	1760.9	*2730.1*	2857.5	650.9	192.3	192.9	161.4	21.9
85°	93.3	106.8	230.9	790.4	*1286.3*	1129.4	169.8	93.3	140.2	120.3	12.2
87.5°	11.6	14.8	73.3	185.9	*283.6*	157.6	26.4	27.7	59.8	66.9	7.1
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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Scaled Data Report

REPORT NUMBER: P322709
CATALOG NUMBER: GLEON-SA5A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2266.4	2263.2	2263.9	2247.1	2236.2	2214.3	2191.8	2181.5	2170.6	2166.1	2170.6
5°	2278.0	2272.2	2255.5	2204.0	2149.4	2078.6	2012.4	1962.2	1899.2	1881.8	1899.8
7.5°	2296.0	2284.4	2235.6	2130.7	2009.2	1874.1	1722.3	1611.7	1521.0	1462.5	1483.7
10°	2322.4	2300.5	2202.1	2024.0	1806.6	1567.3	1351.9	1184.0	1065.0	1016.2	1014.2
12.5°	2366.8	2325.6	2161.0	1885.0	1559.0	1240.0	957.6	775.6	679.2	616.8	615.5
15°	2415.6	2355.2	2108.9	1718.5	1270.8	888.2	616.8	478.5	416.1	396.2	393.6
17.5°	2475.4	2389.3	2041.3	1513.3	969.2	588.5	402.6	362.7	360.2	358.2	358.2
20°	2550.7	2429.8	1954.5	1278.6	687.5	393.0	342.2	344.7	346.0	343.4	344.1
22.5°	2638.2	2470.9	1851.0	1026.5	465.0	328.6	327.4	330.6	331.9	330.6	331.2
25°	2739.8	2518.5	1724.9	762.1	335.7	311.9	315.1	319.6	322.9	322.9	322.9
27.5°	2865.8	2576.4	1573.1	531.9	290.1	294.6	303.6	311.9	316.4	317.7	317.7
30°	3029.8	2648.5	1391.1	364.7	263.7	271.4	288.1	304.2	312.6	313.9	314.5
32.5°	3236.9	2729.5	1180.2	269.5	241.2	247.0	265.0	292.0	308.1	310.6	310.6
35°	3474.2	2823.4	953.1	234.7	225.1	227.0	241.2	272.0	300.3	307.4	308.1
37.5°	3734.1	2916.0	724.8	219.3	211.6	211.6	221.9	248.3	281.7	303.6	306.1
40°	3976.5	2971.9	508.1	207.1	199.4	199.4	208.4	227.7	259.2	292.0	299.1
42.5°	4200.3	2991.2	353.7	195.5	187.8	189.7	197.4	212.9	236.7	269.5	275.9
45°	4430.6	2988.0	257.9	182.0	176.2	182.0	187.8	199.4	216.7	235.4	236.7
47.5°	4604.2	2961.0	204.5	169.1	165.3	173.0	178.1	185.9	195.5	194.2	194.2
50°	4767.0	2895.4	164.6	151.8	154.4	163.4	165.9	168.5	169.1	156.9	155.6
52.5°	4890.4	2793.2	131.8	133.1	143.4	152.4	149.9	146.0	139.6	124.8	122.2
55°	4931.6	2596.4	103.5	110.0	127.3	138.9	129.3	120.9	108.7	96.5	93.9
57.5°	4857.0	2342.3	84.3	85.5	107.4	117.1	106.1	96.5	83.0	72.7	70.7
60°	4698.8	2060.0	69.5	64.3	83.0	91.3	84.3	74.6	62.4	54.7	54.0
62.5°	4384.9	1759.0	57.2	50.2	63.0	70.1	65.6	58.5	48.2	43.1	42.4
65°	3725.1	1407.2	46.3	40.5	48.9	54.7	50.8	45.7	37.9	34.1	33.4
67.5°	2600.2	951.2	37.9	33.4	38.6	43.1	39.9	37.3	30.2	29.6	30.2
70°	1254.1	458.6	31.5	27.0	30.2	33.4	32.2	30.2	28.9	33.4	38.6
72.5°	359.5	153.7	25.1	22.5	24.4	26.4	27.7	27.0	31.5	40.5	46.9
73°	*276.6*	*124.1*	*23.8*	*21.2*	*23.2*	*25.7*	*27.0*	*26.4*	*32.2*	*41.2*	*46.9*
75°	118.3	59.8	18.0	17.4	19.3	22.5	23.8	23.8	32.2	41.8	45.0
77.5°	53.4	32.2	11.6	13.5	16.7	18.0	19.9	19.9	25.7	32.2	32.2
80°	30.2	17.4	9.0	10.3	12.2	12.2	12.2	10.9	11.6	12.9	14.1
82.5°	19.3	11.6	7.1	8.4	7.7	6.4	5.1	5.1	4.5	5.1	6.4
85°	10.9	6.4	6.4	5.1	3.2	2.6	3.2	2.6	0.6	0.0	0.6
87.5°	6.4	3.9	1.9	0.0	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

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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

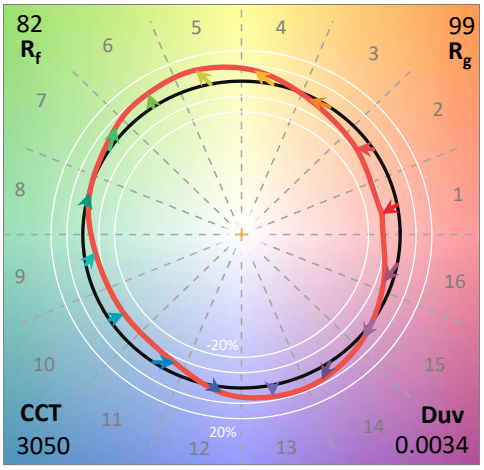
Test Information

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

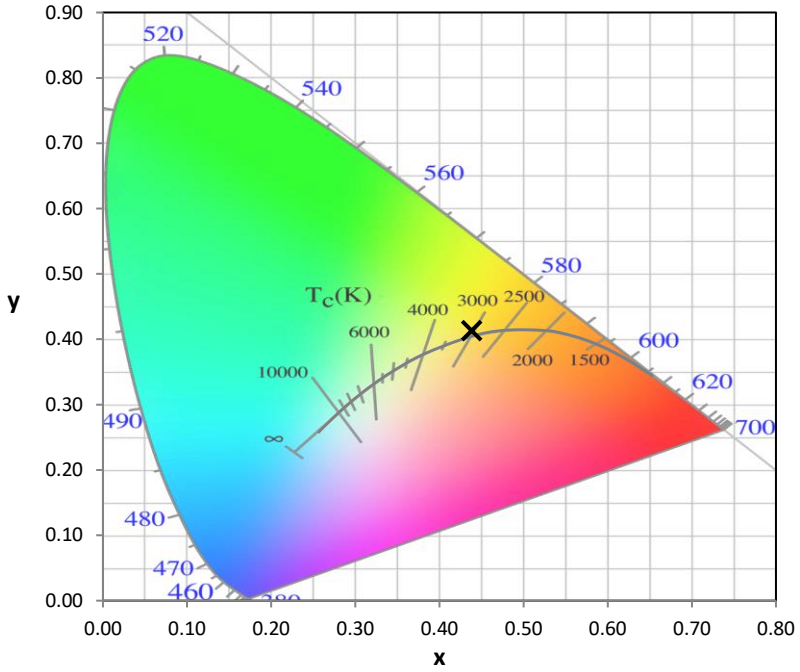
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

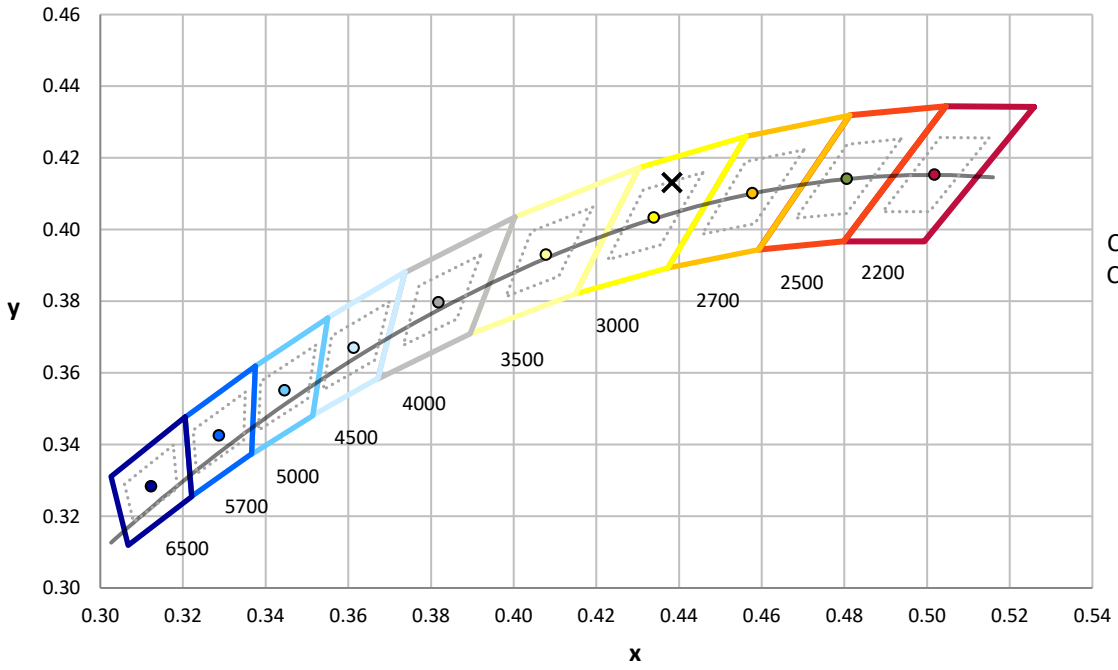
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

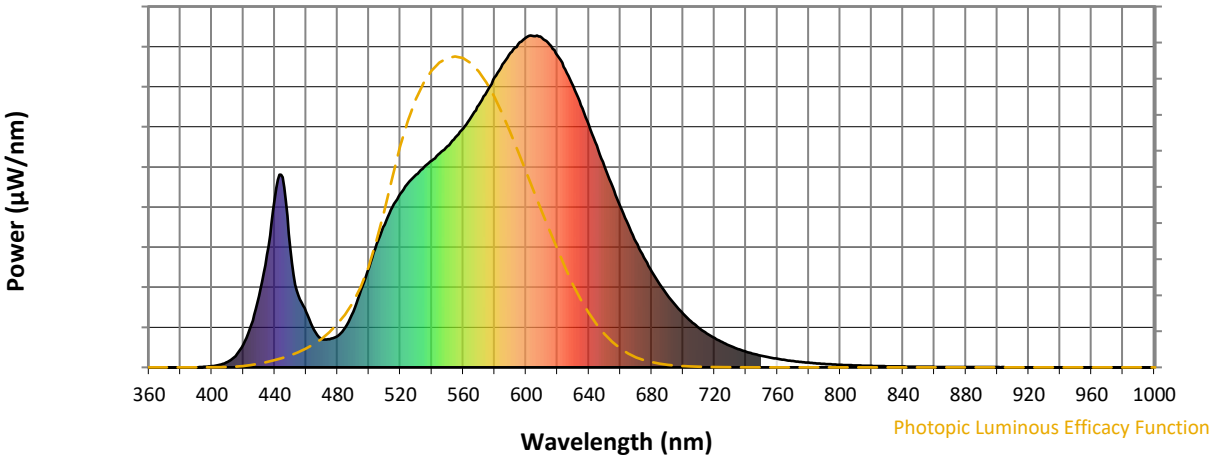


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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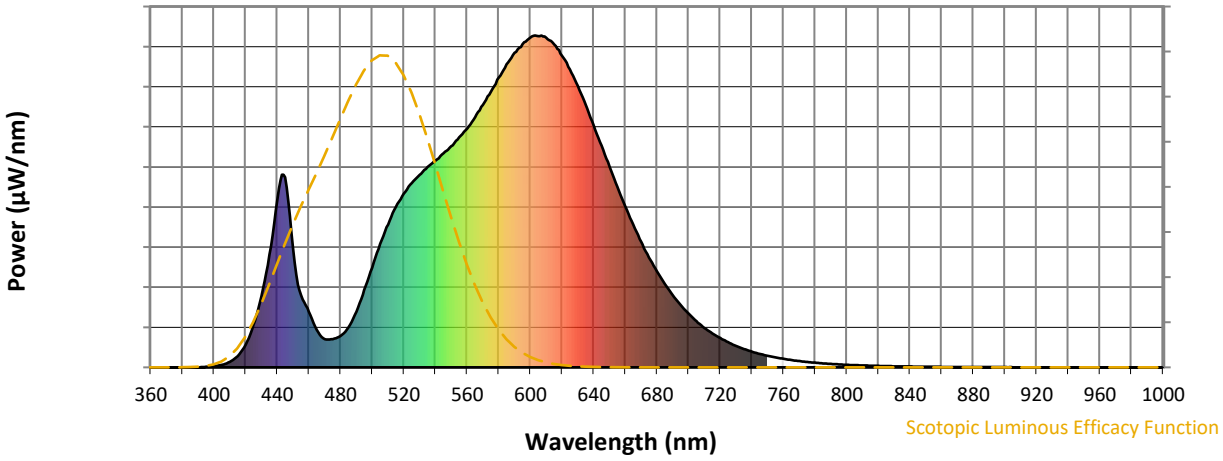
Scotopic Flux vs. Wavelength



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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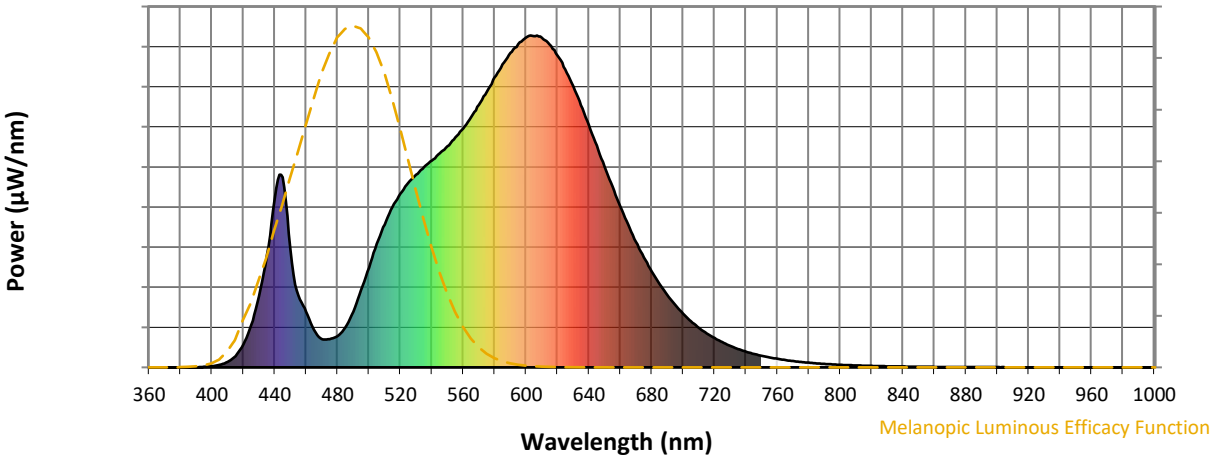
Melanopic Flux vs. Wavelength



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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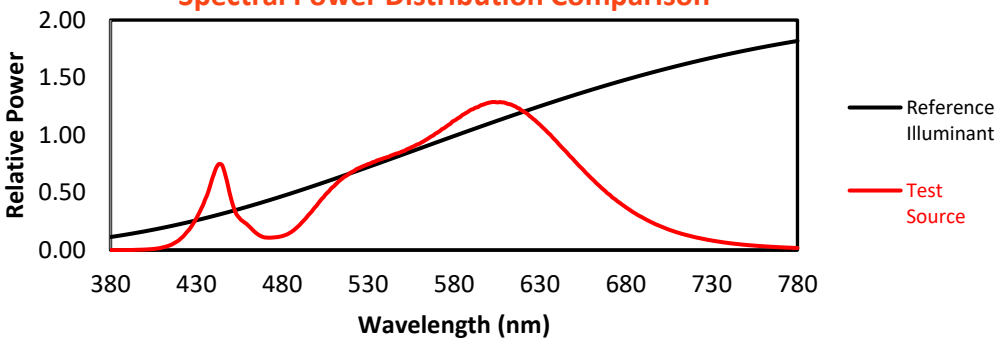
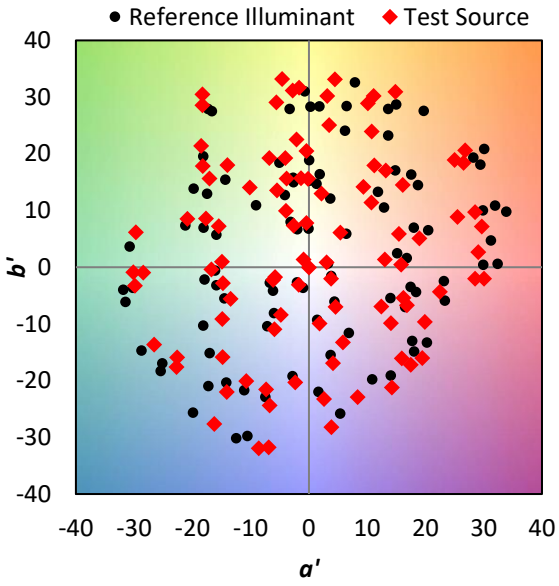
Summary

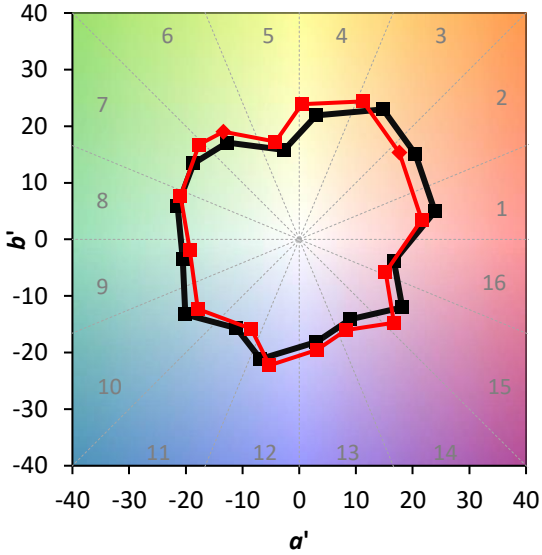
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

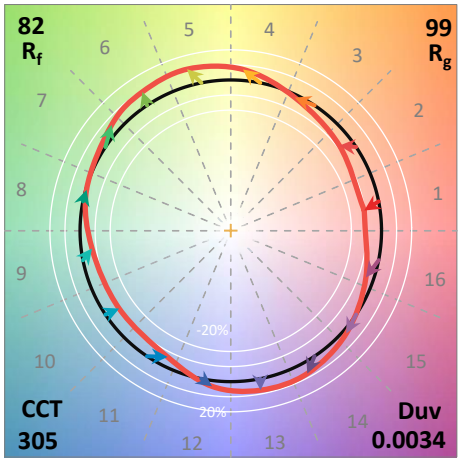
Spectral Power Distribution Comparison

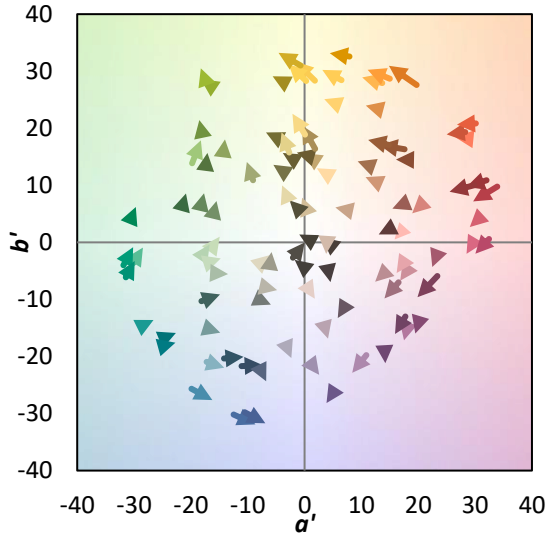


Color Vector Graphics









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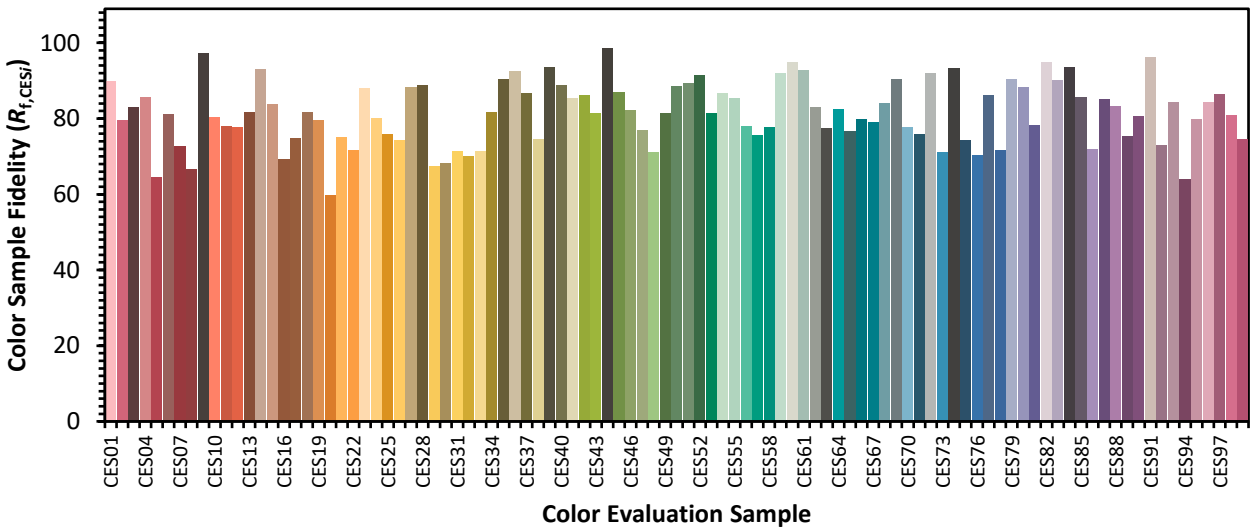
Individual Sample Fidelity Index ($R_{f,i}$)

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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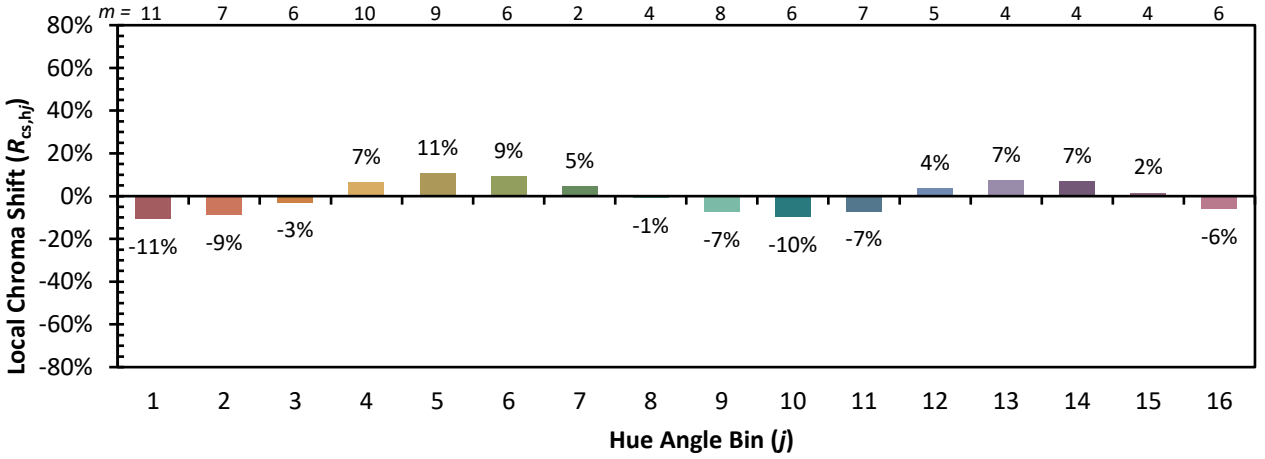
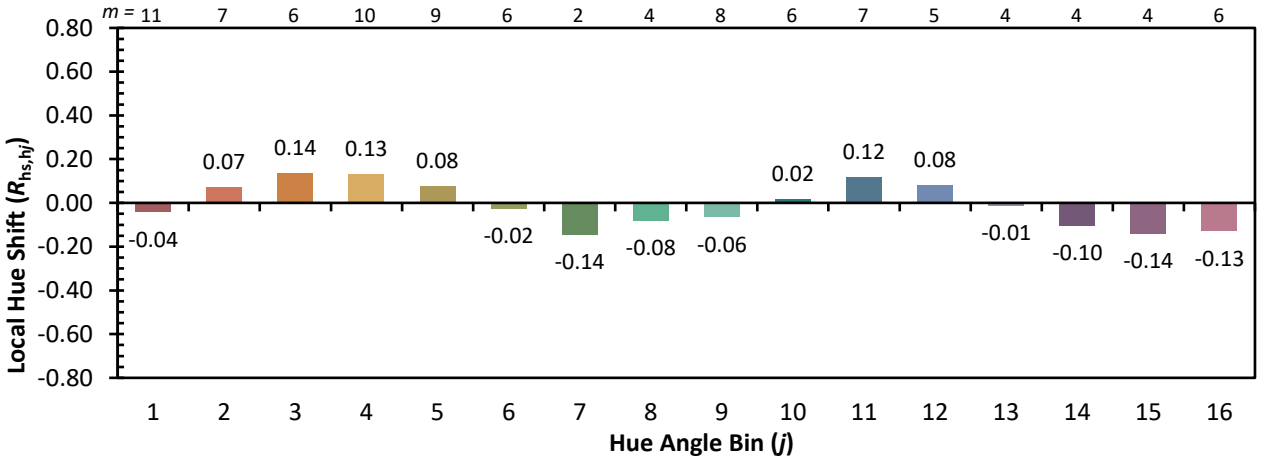
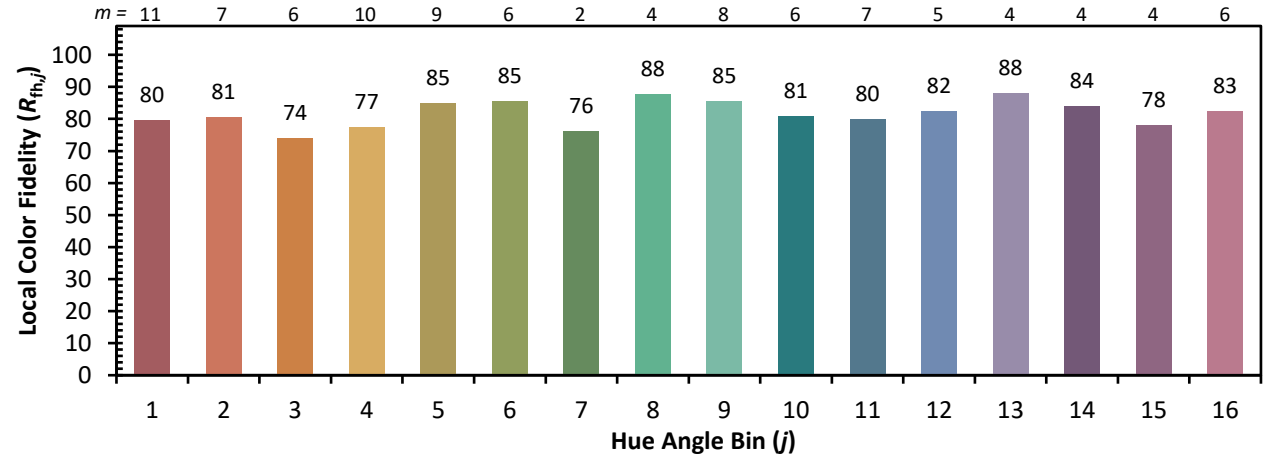
Color Rendition by Hue-Angle Bin







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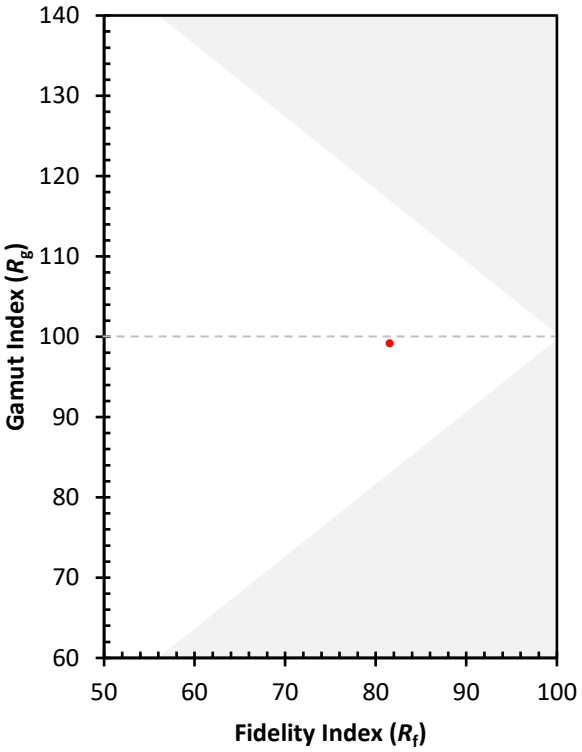
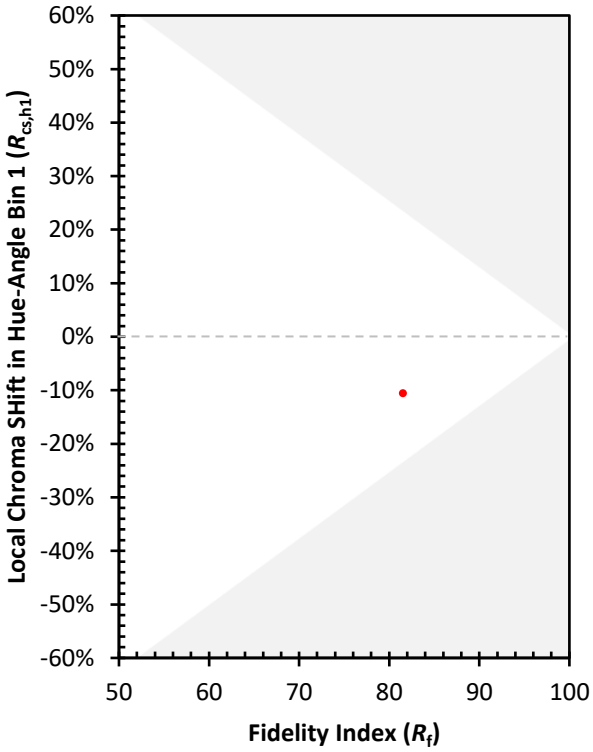
Measure Comparisons





(END OF REPORT)