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: P317589

Luminaire Tested: **GLEON-SA5A-830-U-T2R**

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:	P317589
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
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-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19283 lumens
Efficiency:	N/A
Efficacy:	119.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

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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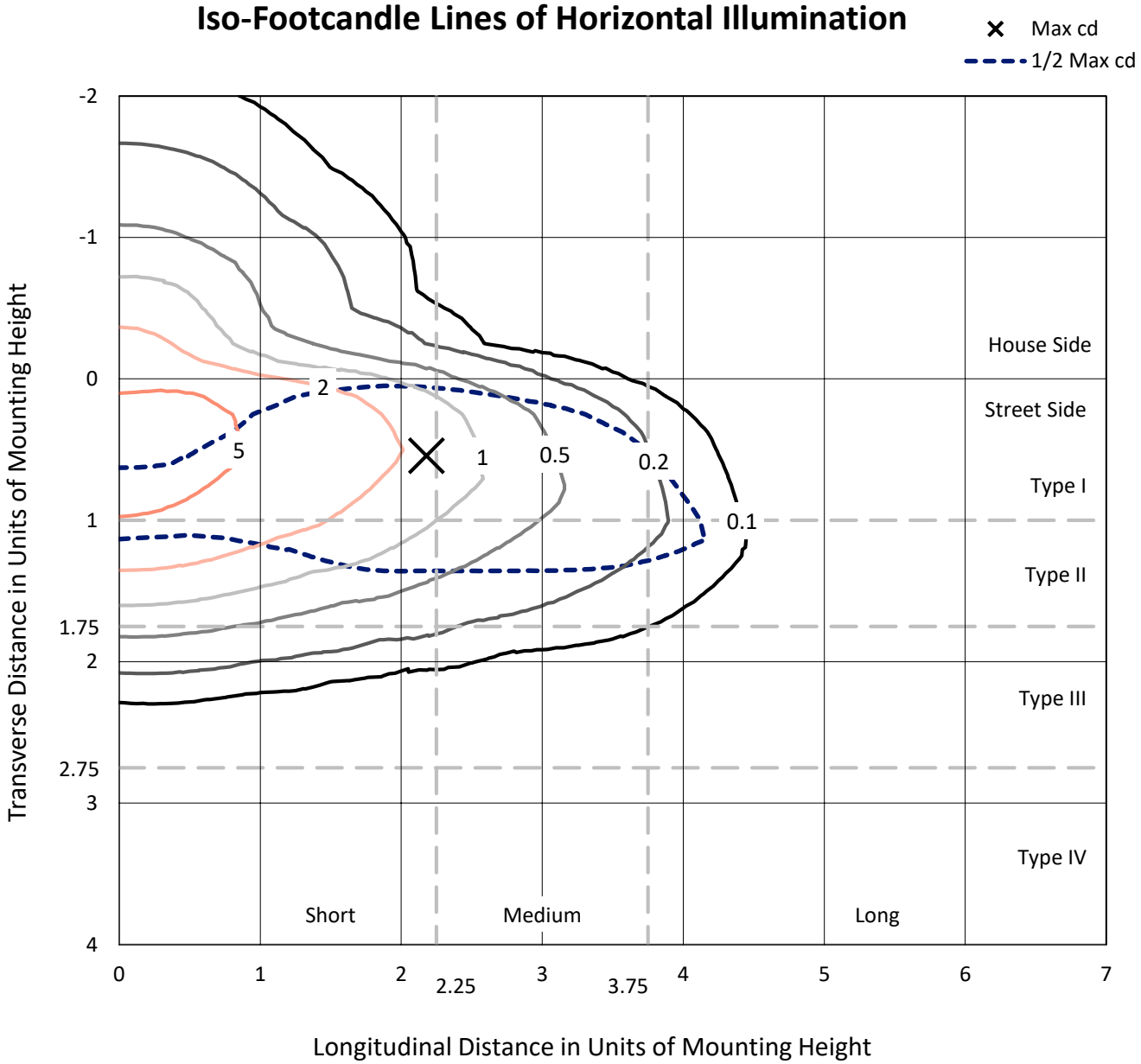
REPORT NUMBER: P317589
CATALOG NUMBER: GLEON-SA5A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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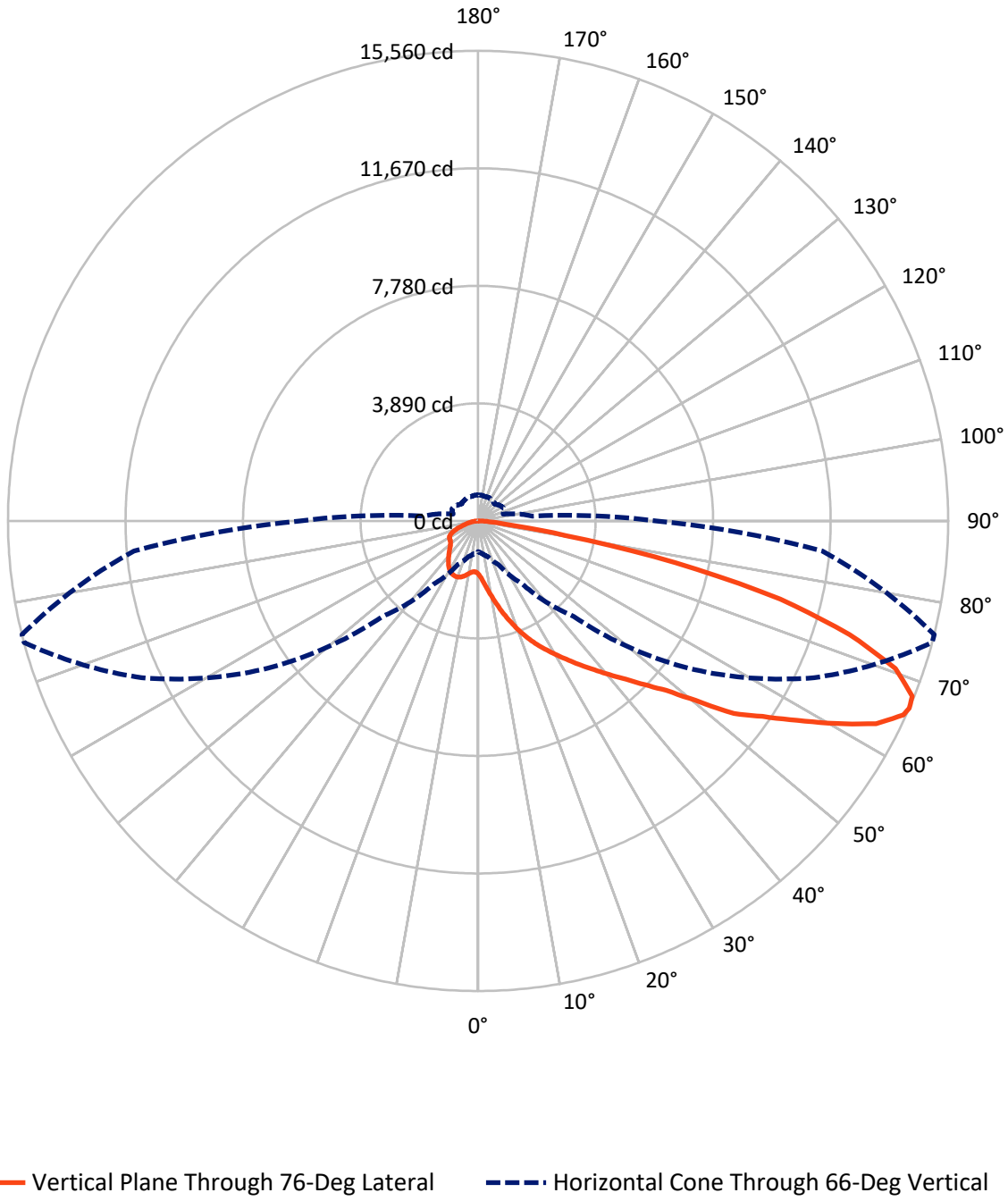
Luminous Intensity Polar Plot



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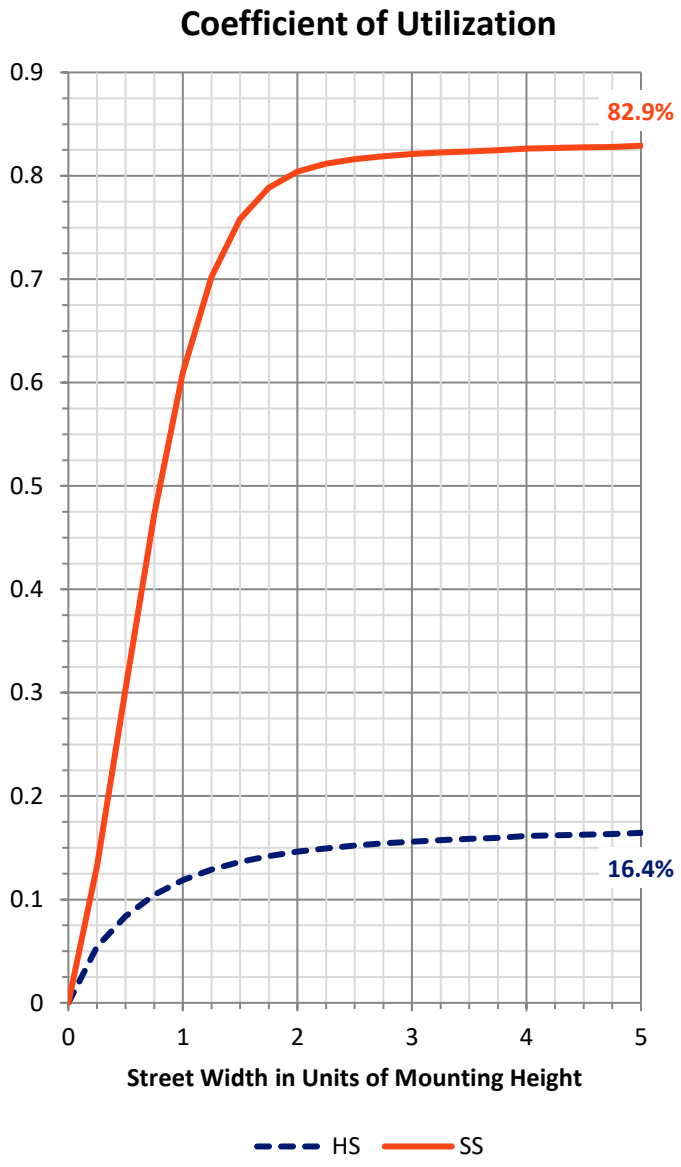
CATALOG NUMBER: GLEON-SA5A-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3244.7	0.0	3244.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16038.3	0.0	16038.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	19283.0	0.0	19283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	1.1
10°-20°	840.9	4.4
20°-30°	1634.1	8.5
30°-40°	2667.2	13.8
40°-50°	3644.1	18.9
50°-60°	4244.6	22.0
60°-70°	3805.4	19.7
70°-80°	1923.1	10.0
80°-90°	310.6	1.6
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°	19283.0	100.0
0°-180°	19283.0	100.0



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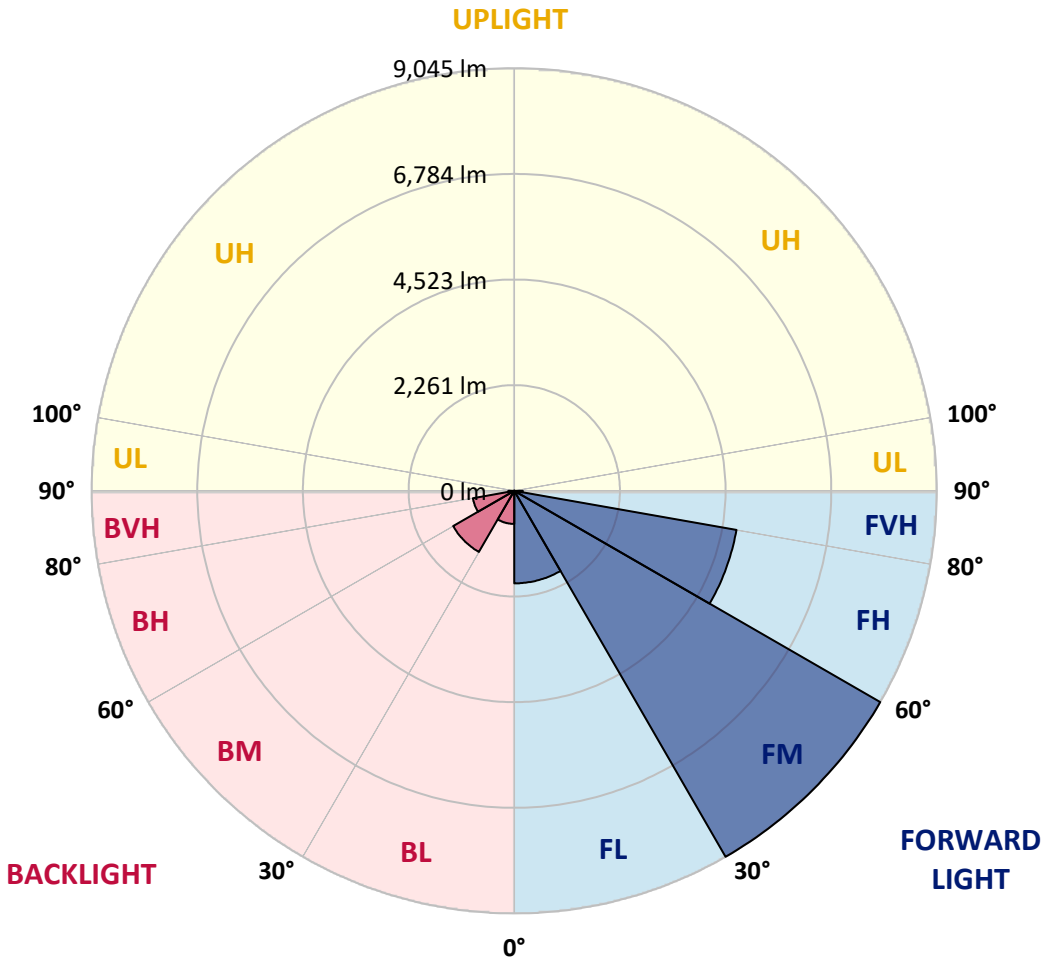
REPORT NUMBER: P317589
CATALOG NUMBER: GLEON-SA5A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1980.3	10.3			
FM	(30°-60°)	9045.1	46.9			
FH	(60°-80°)	4829.6	25.0			G2/5000
FVH	(80°-90°)	183.4	1.0			G2/225
BL	(0°-30°)	707.7	3.7	B2/1000		
BM	(30°-60°)	1510.9	7.8	B2/2500		
BH	(60°-80°)	898.9	4.7	B2/1000		G2/1000
BVH	(80°-90°)	127.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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REPORT NUMBER: P317589
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	*1761.0*	1761.0
2.5°	2337.7	2302.4	2299.1	2247.4	2235.6	2136.7	2064.1	1988.1	1901.7	*1884.7*	1816.6
5°	3002.8	2999.5	2954.4	2869.9	2803.8	2634.9	2468.0	2291.2	2097.5	*2066.0*	1912.8
7.5°	3601.2	3595.9	3561.2	3470.2	3374.7	3167.1	2928.8	2657.8	2343.6	*2297.1*	2043.1
10°	4055.5	4053.5	4041.7	3975.0	3893.8	3694.8	3431.6	3061.7	2629.7	*2566.2*	2206.1
12.5°	4406.4	4410.3	4418.1	4394.6	4356.0	4186.4	3916.7	3489.9	2934.7	*2871.9*	2387.5
15°	4644.0	4655.8	4696.4	4729.8	4750.0	4646.0	4384.8	3927.8	3276.5	*3201.2*	2588.4
17.5°	4763.8	4776.9	4846.9	4947.7	5040.7	5030.2	4822.7	4345.5	3604.4	*3531.8*	2804.5
20°	4867.2	4877.0	4955.6	5076.7	5241.0	5313.7	5197.2	4747.4	3963.8	*3877.4*	3033.6
22.5°	5167.0	5179.5	5203.1	5271.8	5417.1	5550.7	5494.4	5127.8	4293.1	*4212.6*	3250.9
25°	5745.7	5760.8	5709.7	5651.5	5679.0	5771.9	5782.4	5474.7	4627.0	*4536.0*	3484.6
27.5°	6442.9	6464.5	6377.5	6227.6	6096.6	6060.6	6048.2	5758.8	4945.8	*4840.4*	3715.7
30°	7125.7	7163.0	7049.8	6855.4	6615.1	6446.2	6321.2	6037.1	5260.0	*5159.2*	3933.7
32.5°	7792.8	7777.7	7613.4	7423.6	7142.1	6930.6	6628.2	6335.6	5613.5	*5497.6*	4150.4
35°	8249.7	8255.0	8102.4	7877.2	7608.8	7446.5	7039.3	6657.7	5974.2	*5867.5*	4396.5
37.5°	8638.6	8614.4	8441.5	8231.4	8000.3	7930.9	7520.5	7012.5	6365.0	*6248.5*	4658.4
40°	8768.2	8740.1	8626.8	8475.6	8290.3	8284.4	8051.4	7414.4	6806.9	*6691.7*	4953.6
42.5°	8689.6	8653.6	8607.2	8565.9	8509.0	8535.2	8550.2	7885.8	7292.7	*7163.7*	5295.4
45°	8399.6	8345.3	8378.0	8467.7	8591.5	8739.4	9000.6	8407.5	7836.7	*7728.6*	5696.6
47.5°	7953.8	7904.7	8006.9	8198.7	8535.2	8909.6	9426.8	8983.6	8486.1	*8378.7*	6268.1
50°	7326.7	7341.1	7487.1	7836.0	8344.7	8988.2	9951.8	9746.2	9430.0	*9329.9*	7047.8
52.5°	6297.6	6300.2	6711.3	7284.1	8006.9	8947.6	10243.1	10721.0	10719.0	*10597.9*	7790.2
55°	5341.8	5400.1	5725.5	6486.8	7459.6	8785.2	10446.7	11194.9	11565.5	*11423.4*	8482.1
57.5°	4408.3	4442.4	4750.7	5515.3	6678.6	8352.5	10655.5	11763.8	12540.9	*12451.2*	9342.3
60°	3346.5	3398.9	3717.7	4424.0	5679.6	7584.6	10675.2	12357.6	13706.8	*13616.4*	10302.7
62.5°	2172.1	2262.4	2560.9	3222.8	4471.2	6480.2	10219.5	12745.8	14811.8	*14779.7*	11155.0
65°	1248.4	1316.5	1524.0	2034.6	3084.6	5093.7	9136.1	12596.5	15492.0	*15473.6*	11473.8
66°	*1019.9*	*1062.5*	*1221.6*	*1590.1*	*2545.2*	*4473.1*	*8506.3*	*12281.6*	*15559.4*	*15560.1*	*11437.2*
67.5°	815.7	834.7	906.0	1138.4	1878.2	3545.5	7381.0	11587.1	15475.6	*15498.5*	11200.8
70°	674.9	684.8	707.0	763.3	1025.2	2138.0	5239.1	9782.2	14634.4	*14652.1*	10278.5
72.5°	605.5	611.4	619.9	627.8	723.4	1194.7	3199.9	7825.5	12830.9	*12853.8*	8872.9
75°	548.6	551.9	550.5	551.2	606.8	761.3	1653.6	5842.6	10374.7	*10328.9*	6797.1
77.5°	481.8	485.1	478.5	479.8	536.8	585.2	822.9	4090.2	7001.3	*6677.9*	3829.6
80°	407.2	409.8	407.2	411.8	467.4	441.9	478.5	2301.0	3095.8	*2928.2*	1361.6
82.5°	307.7	318.8	326.7	345.0	384.9	314.2	320.1	896.2	942.7	*897.5*	417.7
85°	134.9	164.3	246.1	263.8	289.3	188.5	210.1	365.3	383.6	*371.8*	151.9
87.5°	35.4	38.6	121.8	153.2	160.4	85.1	109.3	166.3	175.4	*166.3*	50.4
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: P317589
CATALOG NUMBER: GLEON-SA5A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0	1761.0
2.5°	1780.6	1748.5	1690.9	1639.9	1601.2	1575.1	1548.9	1535.8	1527.9	1520.1	1521.4
5°	1837.6	1772.8	1673.9	1603.9	1564.6	1539.7	1526.6	1521.4	1518.1	1510.2	1510.2
7.5°	1923.3	1831.7	1695.5	1623.5	1592.7	1573.7	1565.9	1563.3	1559.3	1550.2	1551.5
10°	2031.3	1903.0	1740.7	1670.6	1642.5	1621.5	1610.4	1606.5	1599.3	1588.8	1590.1
12.5°	2158.3	1991.4	1800.3	1726.9	1692.9	1664.7	1646.4	1635.3	1622.8	1609.1	1609.8
15°	2297.1	2087.6	1864.4	1777.3	1730.9	1691.6	1662.1	1643.1	1623.5	1606.5	1605.8
17.5°	2437.9	2180.6	1913.5	1804.8	1742.0	1690.3	1650.3	1620.9	1596.7	1575.7	1573.7
20°	2589.7	2264.4	1941.0	1802.2	1721.0	1659.5	1606.5	1569.8	1543.0	1522.0	1518.8
22.5°	2744.2	2342.9	1945.6	1775.4	1674.6	1599.3	1543.6	1503.0	1475.6	1453.9	1446.1
25°	2885.6	2403.8	1926.6	1723.7	1609.8	1528.6	1474.2	1433.0	1410.7	1385.2	1377.4
27.5°	3014.6	2446.4	1888.6	1657.5	1537.1	1457.2	1406.2	1370.8	1346.6	1326.9	1320.4
30°	3130.5	2469.3	1826.4	1579.0	1462.5	1389.8	1346.6	1322.4	1301.4	1276.5	1272.0
32.5°	3240.5	2469.3	1746.6	1493.2	1388.5	1330.2	1304.7	1289.6	1266.1	1241.8	1235.3
35°	3350.4	2454.2	1652.3	1403.5	1320.4	1287.7	1286.4	1268.7	1232.7	1199.9	1191.4
37.5°	3466.3	2423.5	1546.3	1319.7	1264.8	1268.7	1279.8	1240.5	1189.5	1143.0	1130.6
40°	3597.2	2380.9	1436.3	1247.1	1218.3	1260.2	1262.1	1199.9	1100.4	1057.9	1046.8
42.5°	3751.1	2338.4	1334.1	1182.9	1181.6	1234.6	1228.8	1112.2	1052.7	1031.1	1025.2
45°	3953.4	2314.1	1237.3	1122.0	1152.8	1193.4	1171.8	1063.8	1038.9	1026.5	1021.2
47.5°	4272.2	2326.6	1148.2	1073.6	1124.0	1152.2	1065.7	1044.1	1026.5	1011.4	1006.2
50°	4671.5	2319.4	1076.2	1040.2	1091.3	1109.0	1018.0	1018.6	1009.4	992.4	984.6
52.5°	4972.0	2263.1	1029.7	1021.2	1062.5	1032.4	987.8	993.7	989.2	964.3	955.8
55°	5262.0	2214.6	1006.2	1014.0	1041.5	936.8	952.5	966.9	962.3	938.1	934.2
57.5°	5622.7	2205.5	991.8	1016.0	1023.9	889.0	918.5	937.4	934.2	923.7	921.7
60°	6064.6	2208.1	978.7	1019.3	1004.2	853.6	886.4	910.6	912.6	910.6	909.3
62.5°	6307.4	2136.7	946.0	1010.1	969.5	822.9	853.0	888.3	889.0	892.9	892.3
65°	6101.2	1923.3	885.1	978.0	911.3	797.3	824.2	862.8	853.0	870.7	870.7
66°	*5900.9*	*1800.3*	*855.0*	*957.1*	*886.4*	*787.5*	*815.0*	*849.7*	*837.3*	*861.5*	*861.5*
67.5°	5491.7	1592.7	800.6	912.6	851.0	773.8	804.5	828.1	811.1	847.1	844.5
70°	4744.2	1232.0	691.3	811.7	792.8	753.5	790.1	784.9	760.0	815.0	804.5
72.5°	3999.8	936.1	555.1	679.5	704.4	728.0	769.9	729.9	698.5	737.1	714.2
75°	3103.6	703.7	438.6	528.3	595.1	688.0	745.6	666.4	621.3	617.3	604.9
77.5°	1677.8	483.1	347.6	403.3	472.6	638.3	729.3	598.3	530.3	514.5	504.7
80°	664.5	314.2	252.7	305.7	330.6	566.3	690.0	519.1	437.3	421.6	406.5
82.5°	274.3	185.9	163.0	204.9	215.4	484.4	619.3	425.5	337.8	467.4	496.2
85°	117.8	102.1	96.9	106.1	121.8	339.8	492.9	324.7	364.6	325.4	258.6
87.5°	35.4	43.2	41.2	40.6	44.5	81.2	262.5	180.7	267.7	101.5	75.9
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

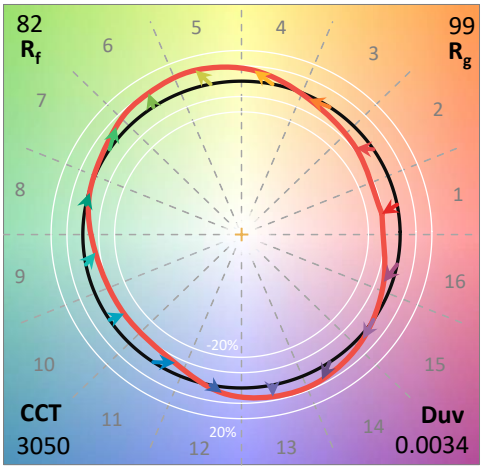
Test Information

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

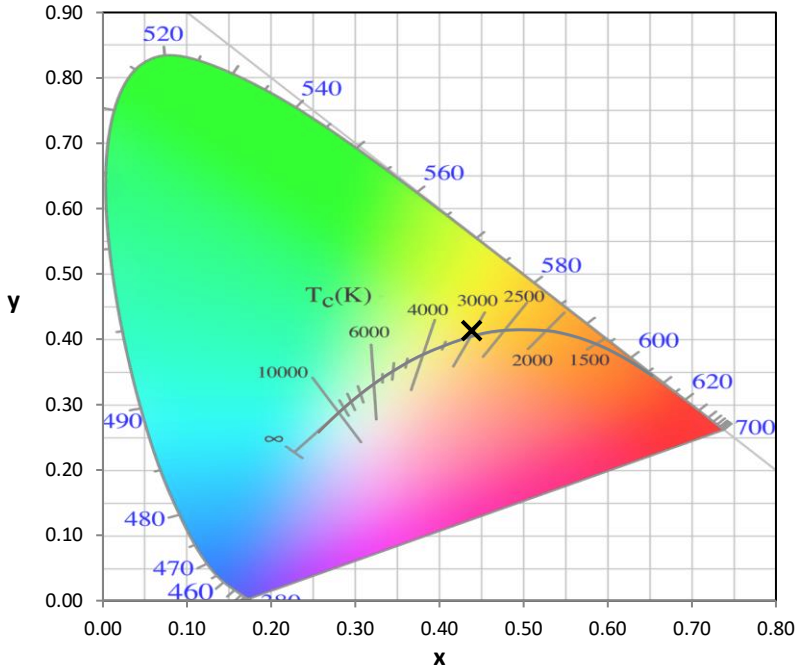
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

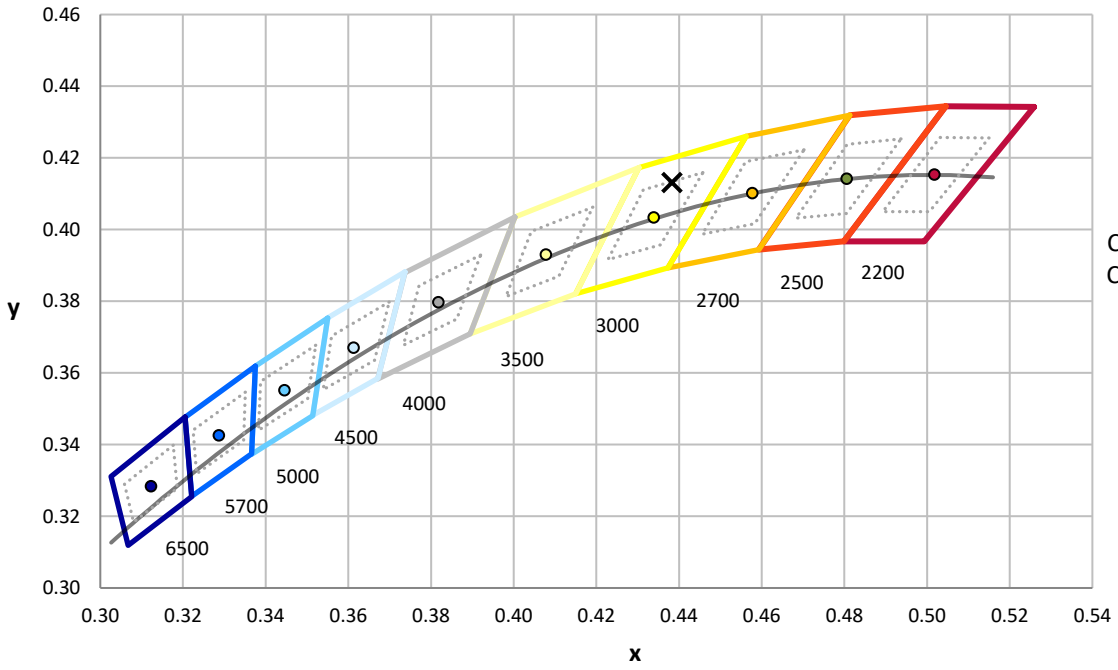
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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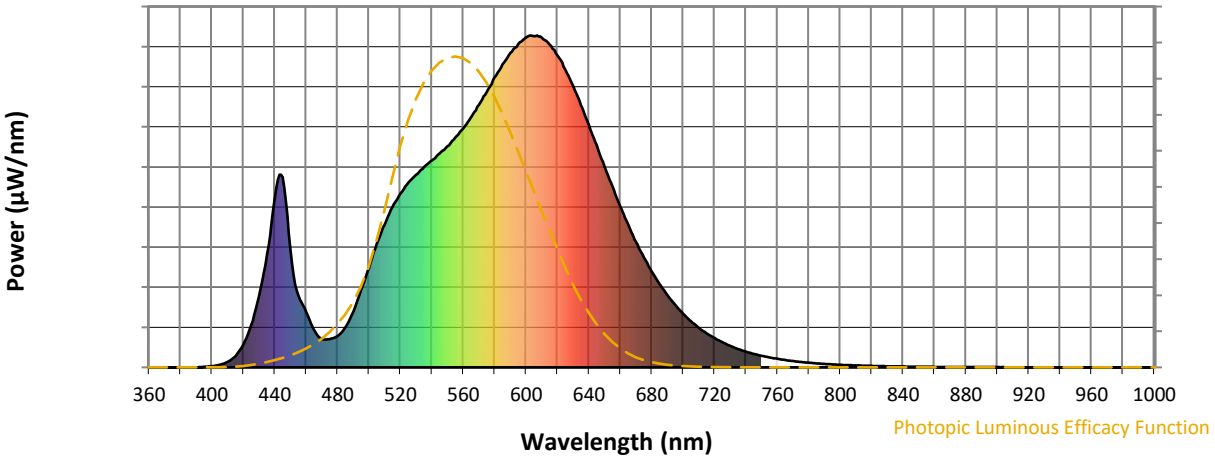
Photopic Flux vs. Wavelength



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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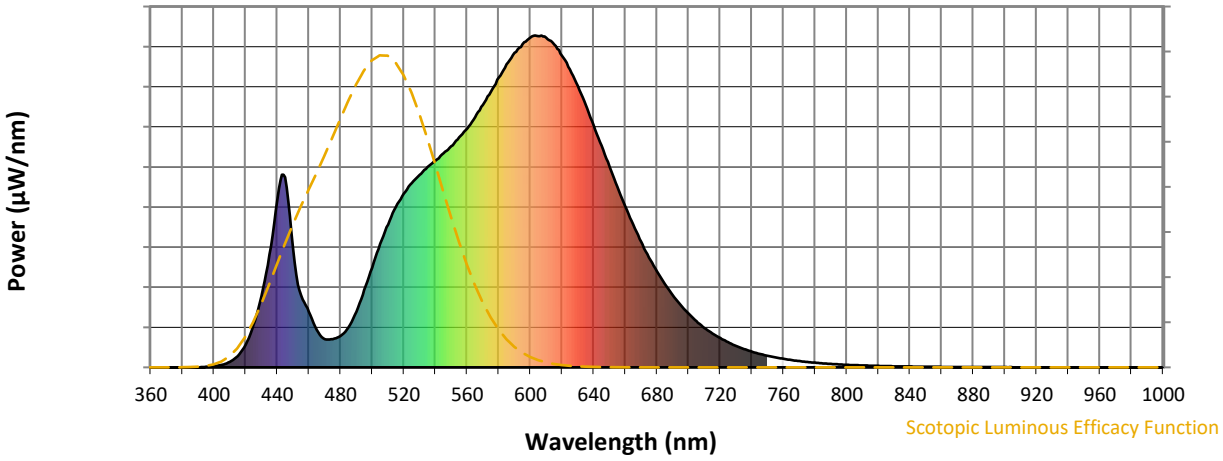
Scotopic Flux vs. Wavelength



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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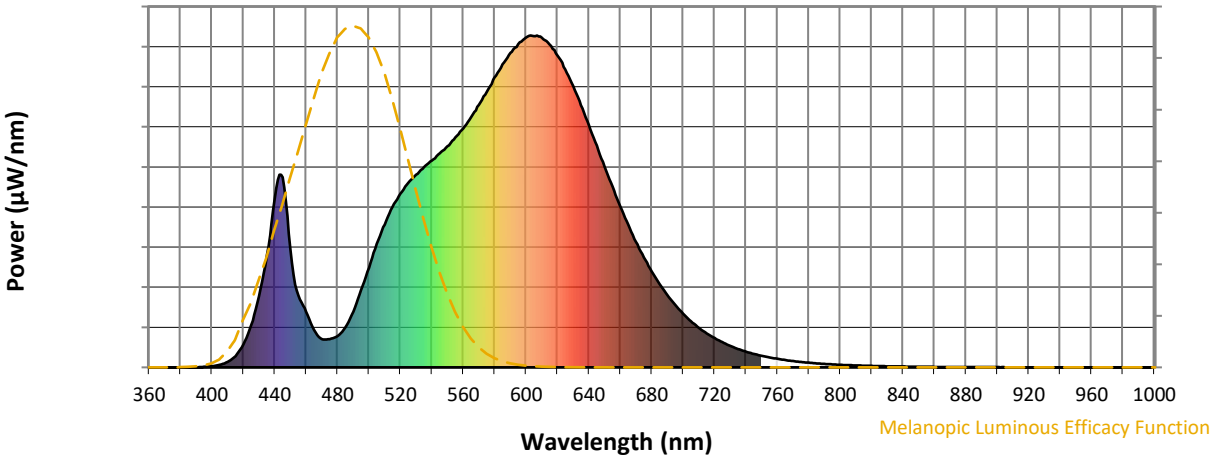
Melanopic Flux vs. Wavelength



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			

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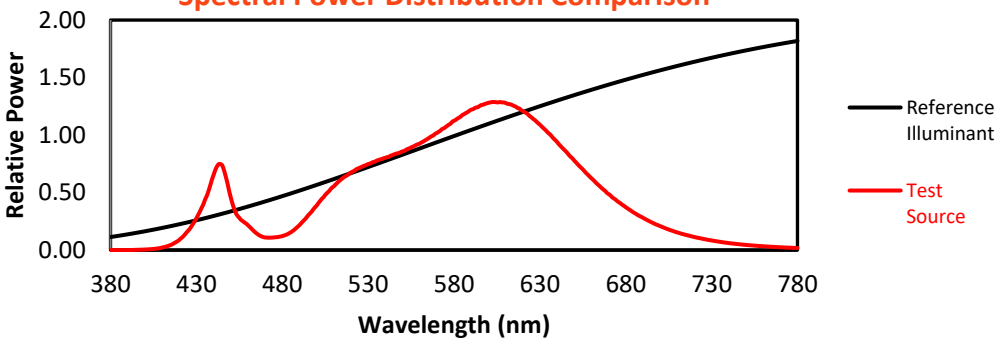
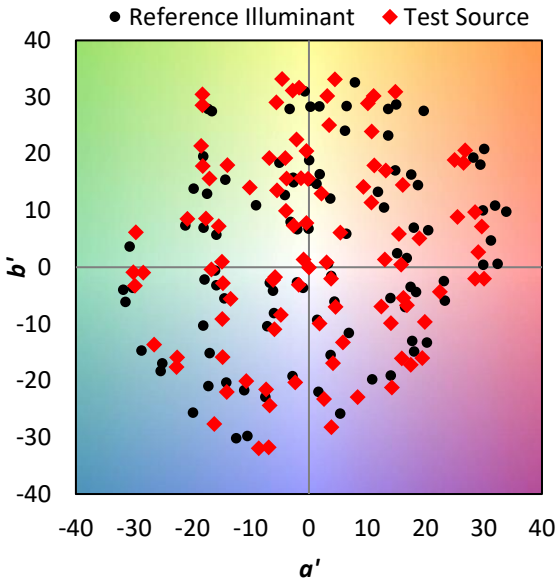
Summary

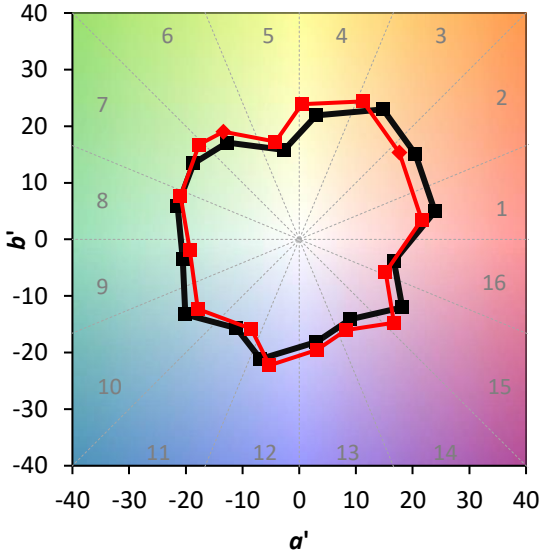
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

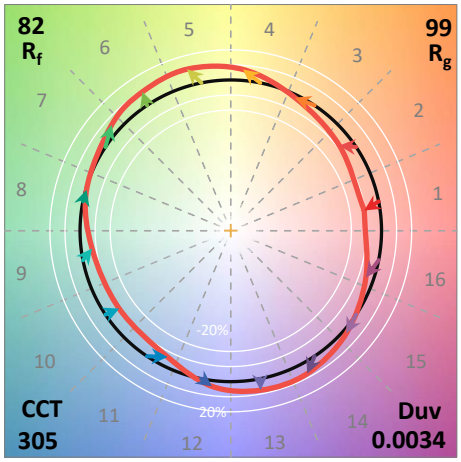
Spectral Power Distribution Comparison

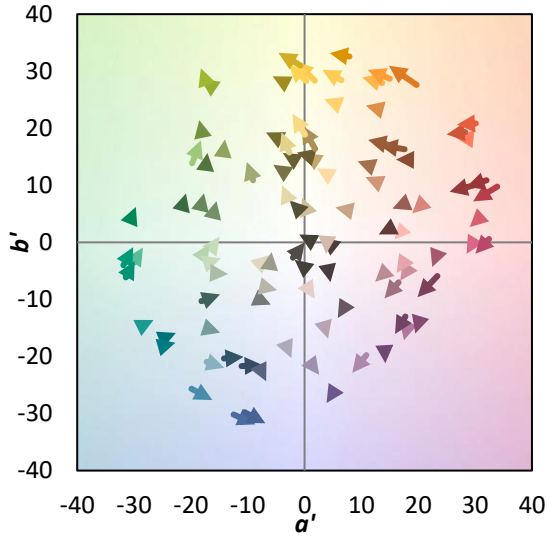


Color Vector Graphics









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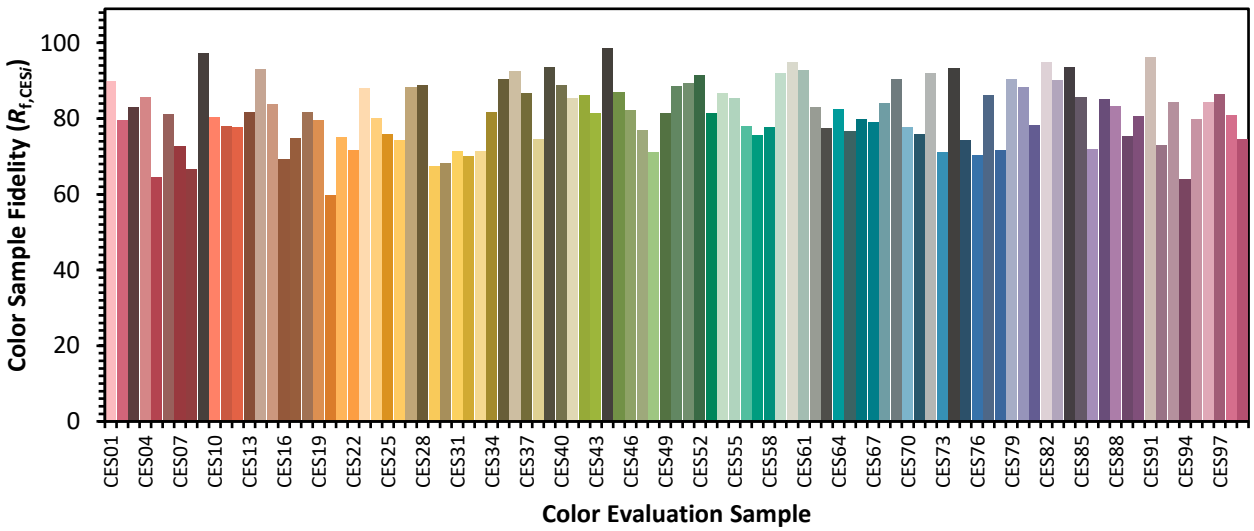
Individual Sample Fidelity Index ($R_{f,i}$)

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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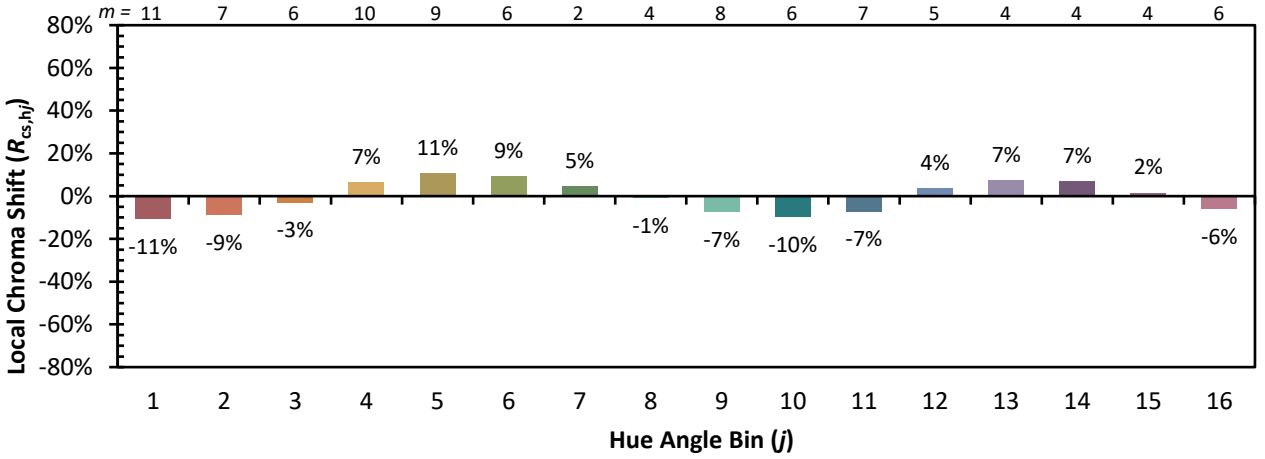
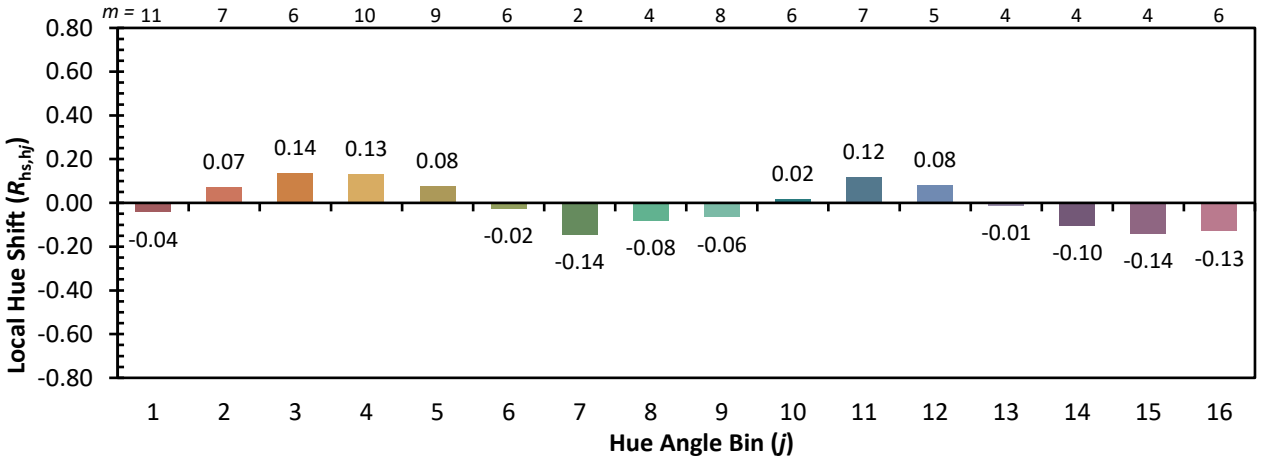
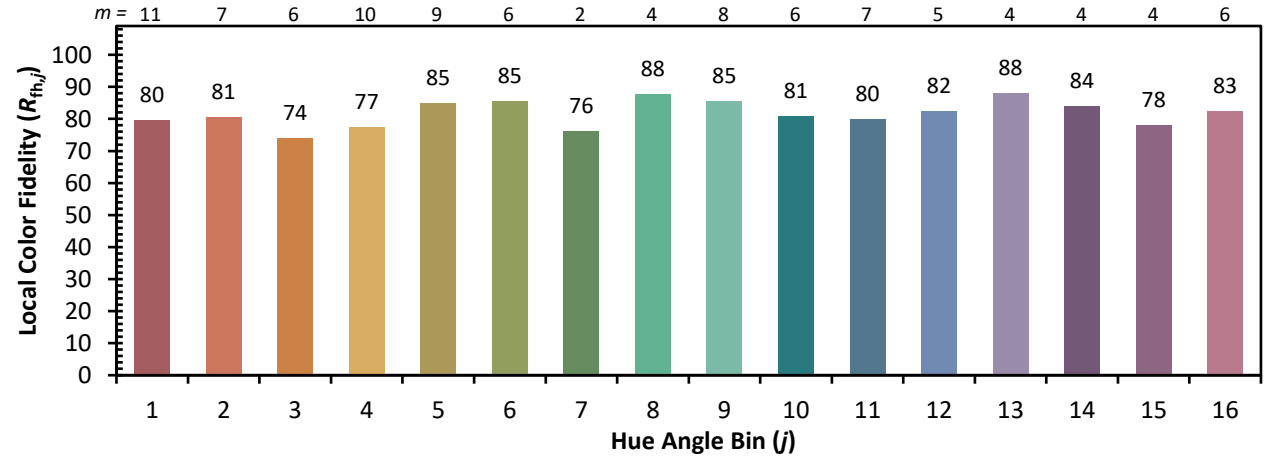
Color Rendition by Hue-Angle Bin







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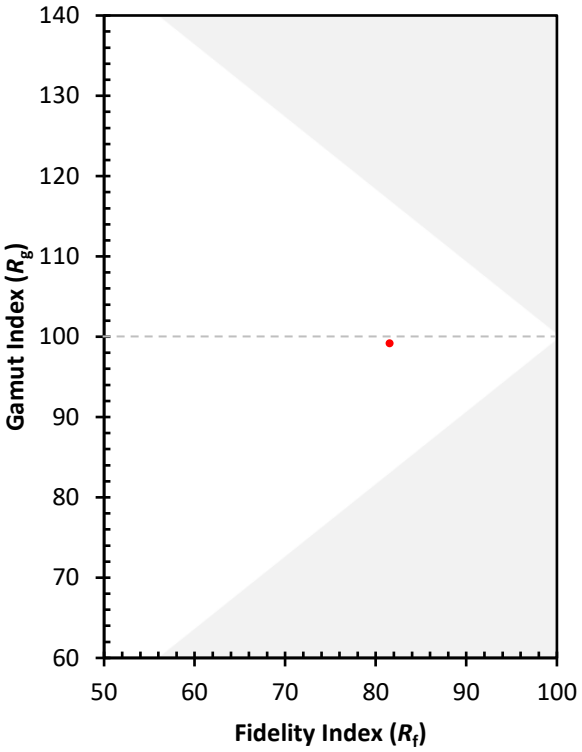
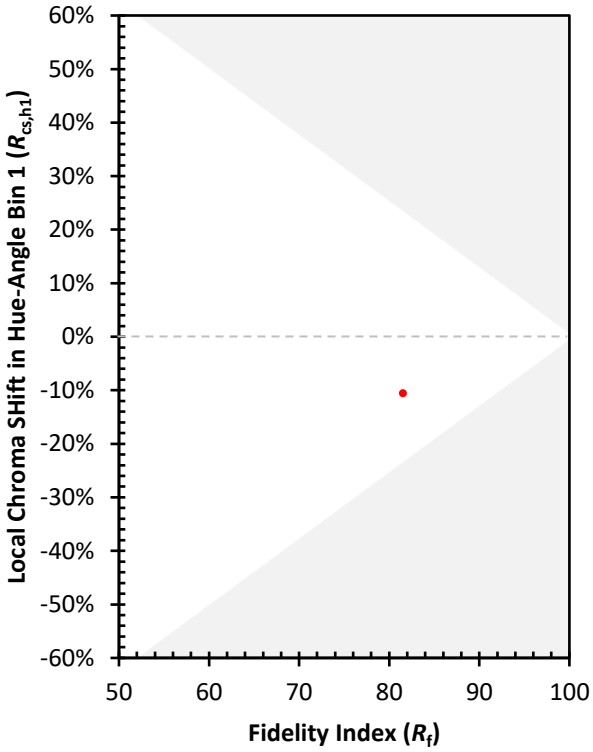
Measure Comparisons





(END OF REPORT)