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: P322068

Luminaire Tested: **GLEON-SA4A-830-U-T2-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:	P322068
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4A-830-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10627 lumens
Efficiency:	N/A
Efficacy:	82.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	129
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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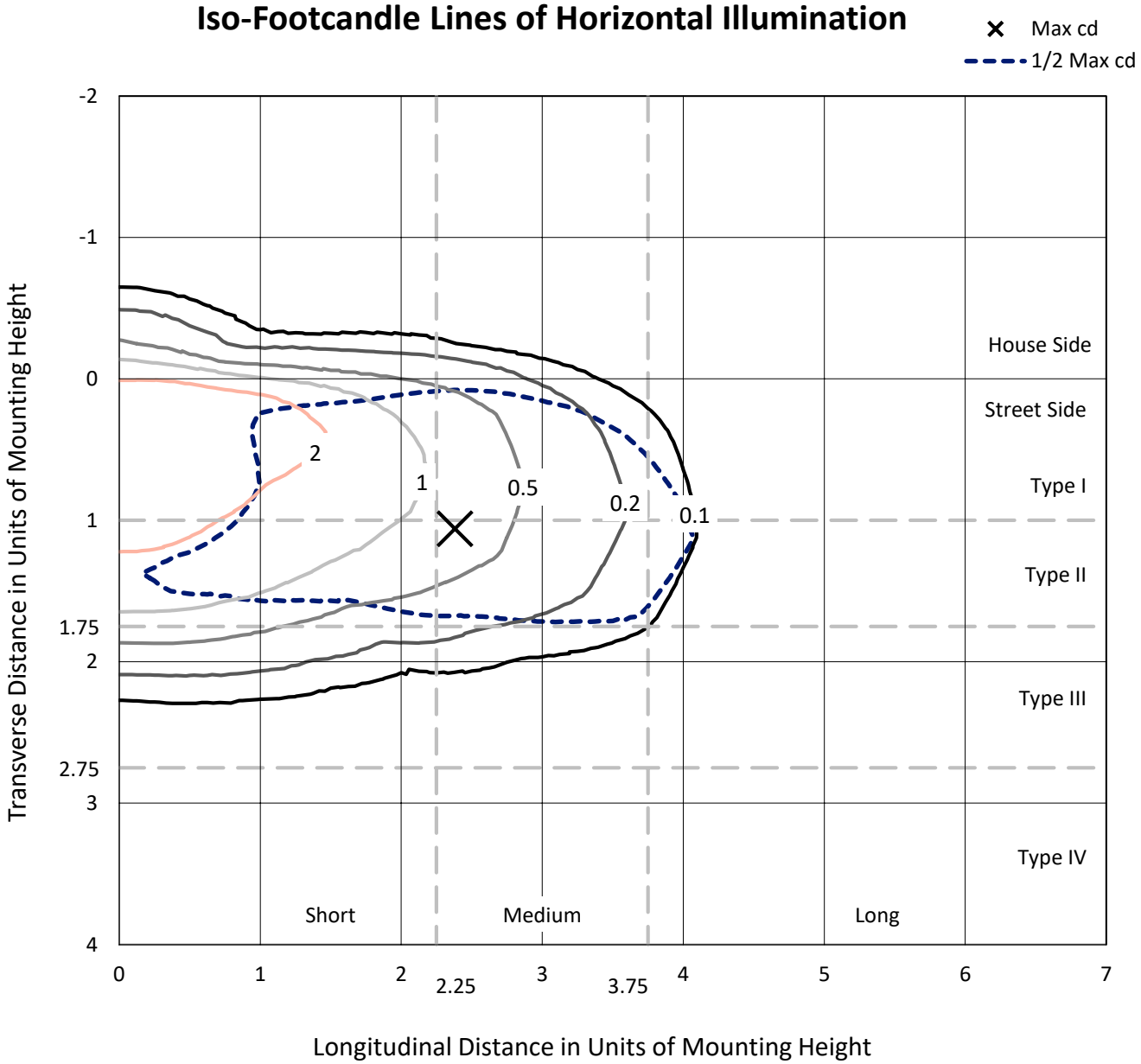
Scaled Data Report

REPORT NUMBER: P322068
CATALOG NUMBER: GLEON-SA4A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Medium - N/A

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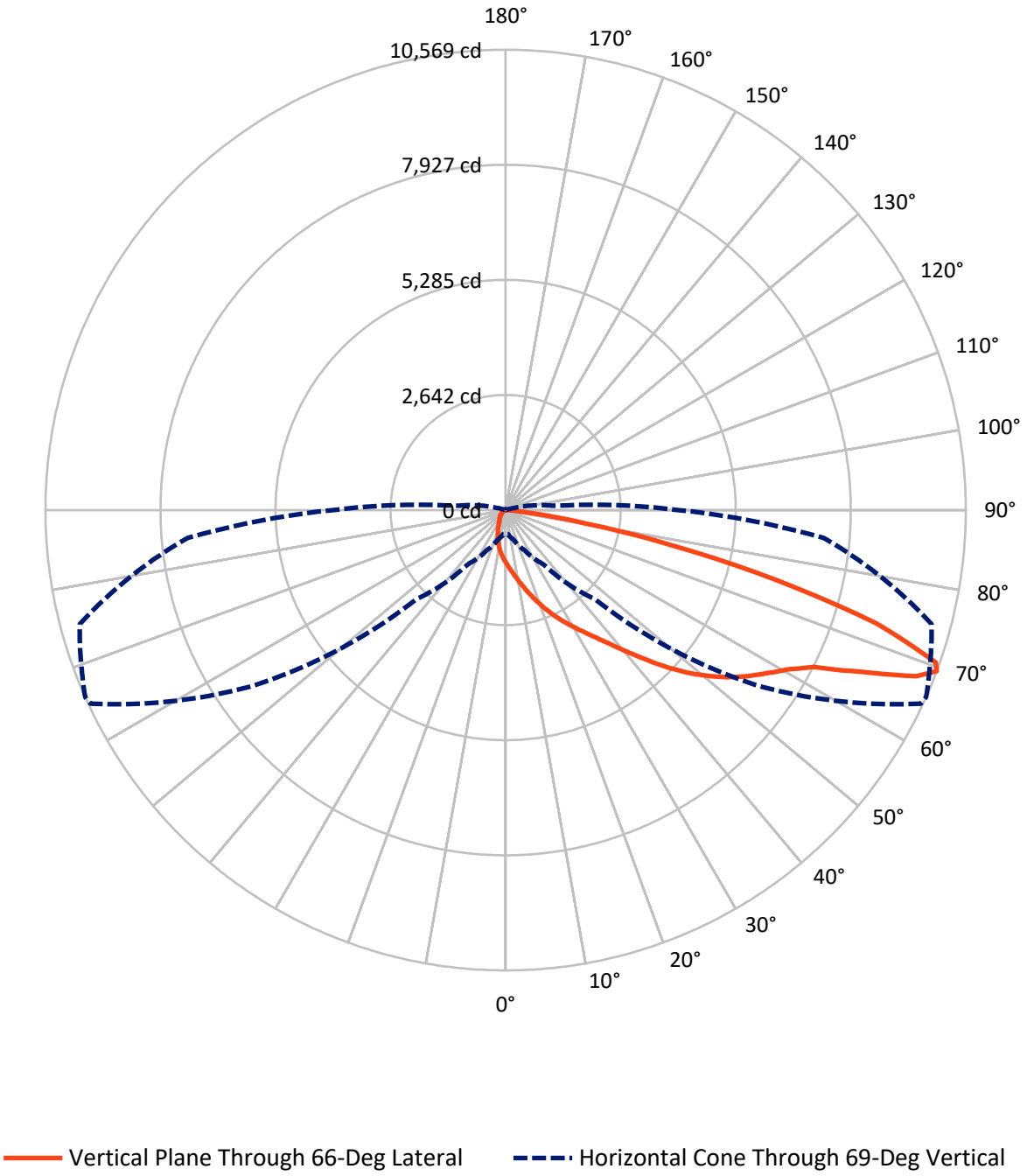
Luminous Intensity Polar Plot



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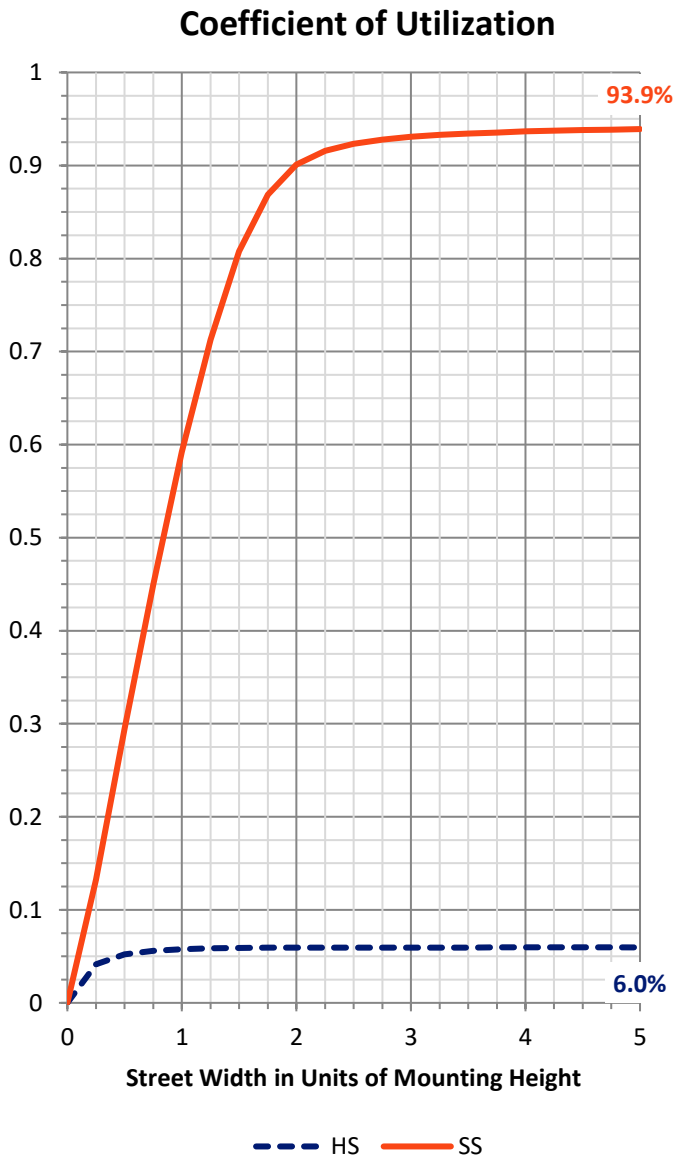
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.5	0.0	637.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	9989.5	0.0	9989.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	10627.0	0.0	10627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	1.1
10°-20°	347.9	3.3
20°-30°	605.9	5.7
30°-40°	1063.0	10.0
40°-50°	1779.3	16.7
50°-60°	2615.4	24.6
60°-70°	2685.3	25.3
70°-80°	1325.7	12.5
80°-90°	87.7	0.8
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°	10627.0	100.0
0°-180°	10627.0	100.0



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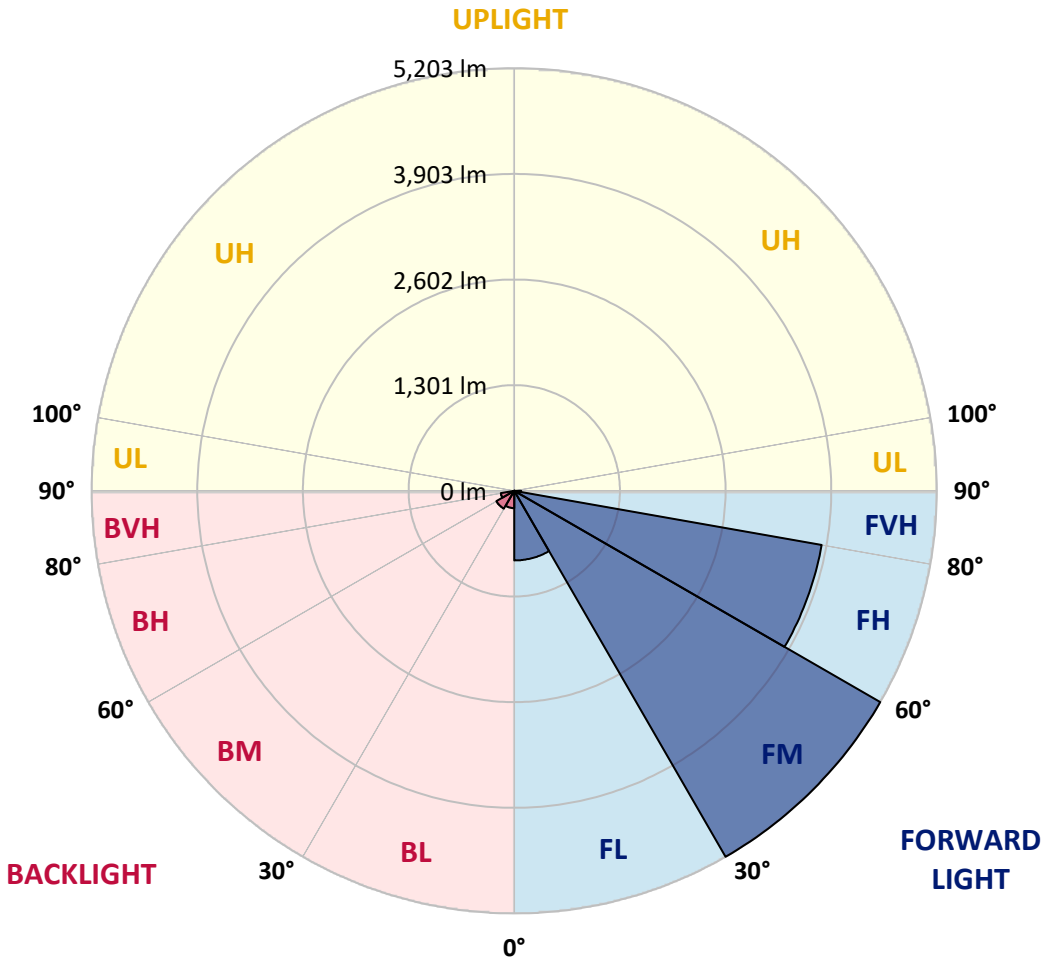
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	857.5	8.1			
FM	(30°-60°)	5203.5	49.0			
FH	(60°-80°)	3843.0	36.2			G2/5000
FVH	(80°-90°)	85.5	0.8			G1/100
BL	(0°-30°)	213.2	2.0	B1/500		
BM	(30°-60°)	254.2	2.4	B1/1000		
BH	(60°-80°)	168.0	1.6	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G2
Type II Medium



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REPORT NUMBER: P322068
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	*1209.4*	1209.4	1209.4
2.5°	1423.4	1417.3	1414.8	1403.7	1384.5	1369.9	1341.6	1308.8	*1302.8*	1271.0	1232.1
5°	1608.1	1603.1	1599.6	1583.9	1564.2	1527.4	1475.9	1414.8	*1403.2*	1342.6	1264.9
7.5°	1736.9	1745.9	1745.9	1735.8	1711.1	1683.3	1620.3	1537.0	*1522.3*	1429.5	1308.8
10°	1812.1	1823.2	1831.7	1840.3	1836.8	1825.7	1766.1	1672.2	*1654.6*	1531.4	1359.8
12.5°	1819.1	1830.2	1854.5	1890.3	1925.1	1950.4	1913.0	1822.2	*1802.0*	1649.5	1420.4
15°	1779.8	1791.4	1828.7	1898.4	1982.7	2056.4	2068.5	1988.2	*1967.5*	1790.4	1496.1
17.5°	1711.1	1718.7	1772.2	1868.6	2000.8	2136.1	2209.3	2166.4	*2147.2*	1951.4	1580.4
20°	1660.1	1665.7	1712.6	1816.1	1989.7	2186.1	2342.6	2355.7	*2335.5*	2124.0	1671.7
22.5°	1747.5	1757.5	1759.1	1808.0	1959.4	2210.8	2459.7	2541.9	*2526.8*	2307.2	1761.6
25°	1986.2	1997.8	1959.4	1929.2	1985.2	2221.9	2560.1	2732.7	*2720.6*	2504.6	1851.9
27.5°	2301.7	2313.8	2264.3	2174.0	2120.0	2263.8	2649.4	2926.6	*2926.0*	2713.5	1949.4
30°	2611.6	2623.7	2573.2	2482.9	2358.7	2382.4	2726.7	3129.5	*3132.5*	2929.1	2052.8
32.5°	2936.6	2951.8	2899.8	2783.7	2654.0	2587.4	2835.2	3333.4	*3350.5*	3178.9	2169.4
35°	3306.1	3308.1	3235.0	3113.3	2963.9	2861.4	3009.3	3562.0	*3602.9*	3488.3	2317.3
37.5°	3668.5	3683.2	3623.1	3431.3	3294.0	3177.9	3268.3	3847.7	*3905.8*	3866.4	2510.6
40°	3937.1	3967.9	3959.3	3752.3	3622.1	3539.3	3589.8	4187.4	*4261.1*	4306.5	2754.4
42.5°	4105.7	4128.9	4168.2	4043.6	3925.5	3939.1	3969.4	4583.2	*4674.0*	4808.3	3034.6
45°	4299.0	4310.1	4342.9	4287.9	4208.1	4345.4	4372.2	5028.8	*5124.2*	5347.9	3345.5
47.5°	4535.2	4561.4	4570.5	4520.1	4483.7	4704.8	4760.3	5434.2	*5567.9*	5925.8	3674.6
50°	4836.0	4843.1	4858.7	4825.9	4789.6	5013.7	5108.6	5859.7	*5981.3*	6505.8	3999.2
52.5°	5130.3	5155.5	5210.1	5189.4	5174.7	5276.7	5419.0	6243.3	*6379.1*	6989.3	4323.2
55°	5215.1	5236.8	5425.1	5553.8	5672.9	5600.7	5715.8	6587.0	*6733.9*	7421.4	4635.1
57.5°	4876.4	4920.3	5246.4	5581.6	6075.7	6104.5	6123.7	6939.8	*7071.6*	7752.5	4959.7
60°	4020.4	4028.9	4564.0	5138.9	6009.1	6544.1	6719.3	7318.9	*7429.5*	8060.9	5348.4
62.5°	2557.1	2644.4	3231.4	4043.1	5304.4	6480.5	7439.5	7892.3	*7932.7*	8430.9	5905.6
65°	1218.0	1274.5	1697.5	2498.0	3842.2	5666.4	7936.7	8929.6	*8947.7*	9164.3	6650.1
67.5°	674.3	701.6	903.0	1344.7	2246.1	4007.2	7735.8	10158.1	*10175.3*	9913.3	7303.3
69°	*527.5*	*550.7*	*709.2*	*1013.5*	*1522.8*	*2880.1*	*7000.4*	*10518.0*	*10569.0*	*10127.9*	*7326.5*
70°	447.7	470.4	610.8	856.1	1224.5	2225.5	6231.2	10428.7	*10482.7*	10107.7	7153.4
72.5°	274.1	287.2	406.8	602.7	820.7	1119.5	3842.7	8819.5	*8910.9*	9271.8	6147.9
75°	184.7	191.8	254.4	415.9	587.0	576.4	1996.3	6216.5	*6414.4*	7212.4	4540.8
77.5°	132.2	138.8	170.6	269.0	411.4	380.6	904.0	3863.4	*3905.8*	4325.7	2476.3
80°	75.2	81.3	120.6	160.0	279.1	253.9	359.4	1845.4	*1866.6*	1855.0	826.8
82.5°	39.4	44.4	66.1	105.5	179.2	166.1	149.4	617.8	*620.8*	516.4	181.2
85°	7.6	9.1	32.8	72.2	92.4	72.2	61.1	144.9	*147.9*	130.7	44.9
87.5°	0.0	0.5	13.1	16.2	18.2	18.7	19.7	28.3	*30.3*	40.9	12.1
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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REPORT NUMBER: P322068
CATALOG NUMBER: GLEON-SA4A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4
2.5°	1214.9	1196.8	1161.9	1121.6	1090.3	1059.5	1035.2	1010.0	1000.9	996.4	995.9
5°	1227.1	1188.7	1115.0	1039.3	977.2	918.6	876.8	836.9	818.2	809.6	806.1
7.5°	1247.2	1185.7	1067.0	951.5	862.1	788.9	730.9	687.5	665.8	656.7	653.1
10°	1271.0	1181.6	1011.0	858.6	744.5	668.8	611.3	568.4	544.6	534.5	529.5
12.5°	1298.7	1174.6	946.4	764.7	644.1	568.4	498.7	445.7	418.4	406.8	401.3
15°	1333.1	1167.5	878.8	676.4	555.7	463.4	387.1	351.3	345.8	343.7	344.2
17.5°	1366.9	1156.4	805.1	589.0	462.9	361.9	323.0	321.0	322.0	322.0	322.0
20°	1397.2	1131.2	724.8	514.3	374.5	305.4	297.3	293.8	291.2	289.2	286.7
22.5°	1420.9	1097.3	647.6	440.1	305.9	279.6	267.0	255.9	246.8	240.8	237.7
25°	1437.0	1052.4	576.9	369.0	275.1	254.4	231.7	213.0	198.9	190.3	186.8
27.5°	1449.1	1004.0	513.8	308.9	253.9	225.1	195.3	173.1	158.5	150.9	147.9
30°	1457.7	948.9	458.3	271.6	230.2	194.3	162.5	140.8	130.2	126.2	124.2
32.5°	1465.8	887.9	405.8	253.9	208.0	166.1	136.3	119.6	113.1	108.0	106.5
35°	1486.0	831.3	355.9	235.2	185.2	141.8	117.1	105.0	98.4	95.4	94.4
37.5°	1533.9	789.4	307.9	216.0	162.5	122.7	102.5	93.9	87.8	84.8	83.8
40°	1611.2	768.2	267.5	195.3	140.3	108.0	92.9	84.8	78.2	73.7	72.7
42.5°	1724.7	771.3	239.3	174.6	122.7	96.4	83.8	74.2	67.1	63.1	62.1
45°	1862.5	793.5	219.6	154.5	108.0	87.3	73.7	63.6	57.0	53.5	52.5
47.5°	2011.9	829.3	203.4	136.3	96.4	78.7	63.6	53.0	47.4	44.4	43.9
50°	2169.4	864.1	186.8	118.6	86.3	70.2	53.5	43.9	39.4	36.8	35.8
52.5°	2328.9	904.5	171.6	102.5	77.7	60.1	44.4	35.8	32.3	30.3	29.3
55°	2500.5	934.8	157.0	89.8	69.2	51.0	36.8	29.8	26.8	24.2	23.7
57.5°	2702.4	981.7	141.8	77.7	59.1	42.4	30.3	23.7	21.2	18.7	18.2
60°	2975.0	1036.8	125.7	68.6	48.5	34.8	24.7	19.2	16.2	14.1	13.6
62.5°	3334.4	1097.8	105.5	60.1	39.4	28.3	19.7	15.1	11.6	9.1	9.1
65°	3790.2	1197.3	86.3	50.5	32.3	23.2	15.1	11.1	6.6	4.0	4.0
67.5°	4056.2	1214.4	69.7	41.4	26.2	19.7	12.6	7.6	2.0	0.5	0.0
69°	*3970.9*	*1115.0*	*59.1*	*35.3*	*22.7*	*18.7*	*11.6*	*5.6*	*1.0*	*0.0*	*0.0*
70°	3810.4	1019.6	52.0	31.3	20.7	17.7	11.1	4.0	1.0	0.0	0.0
72.5°	3148.6	725.8	39.4	23.2	15.1	15.6	10.1	2.5	1.0	0.0	0.0
75°	2293.6	441.2	28.3	16.2	9.6	11.6	7.1	1.0	0.5	0.0	0.0
77.5°	1276.0	208.0	17.7	9.1	6.1	7.1	3.5	0.0	0.0	0.0	0.0
80°	414.4	56.5	8.1	5.0	3.5	4.0	1.5	0.0	0.0	0.0	0.0
82.5°	76.7	16.2	4.5	2.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	16.7	6.6	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.0	0.5	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

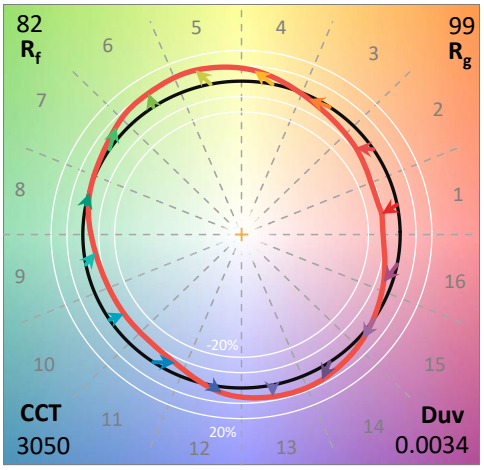
Test Information

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

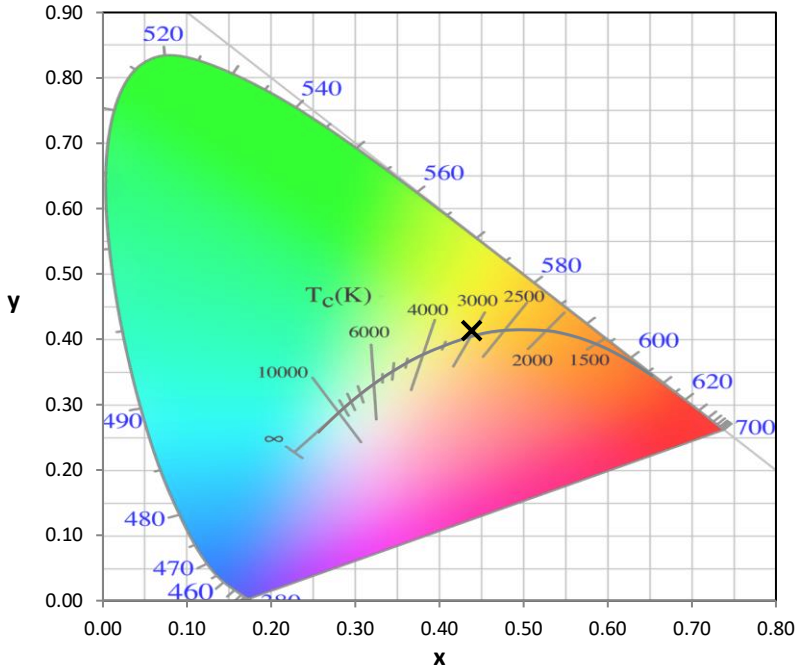
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

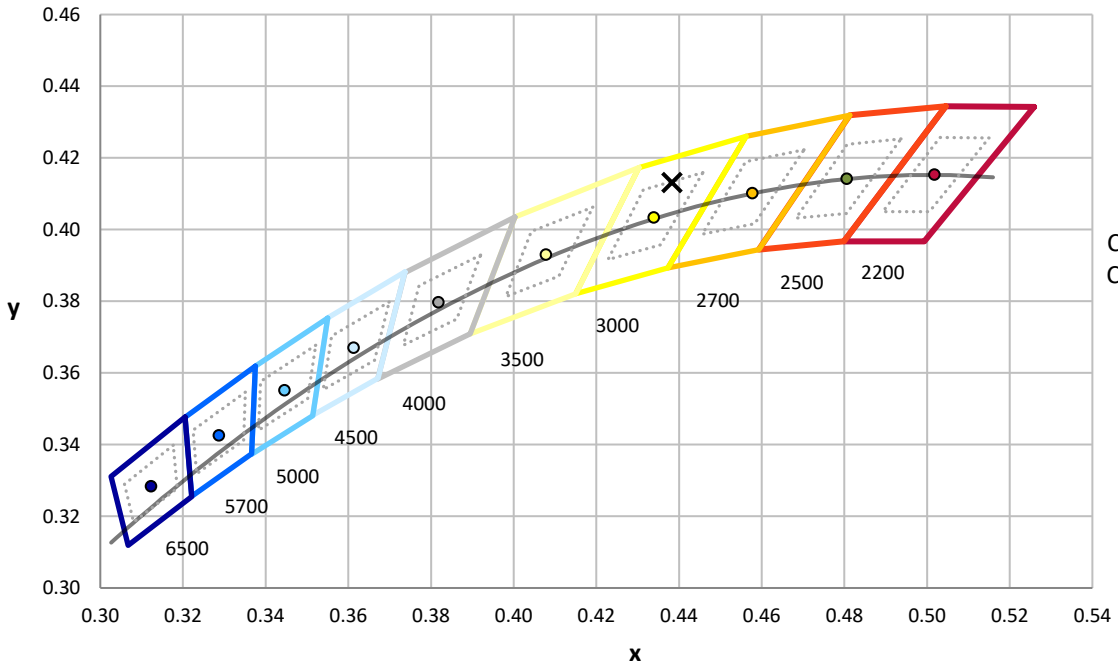
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

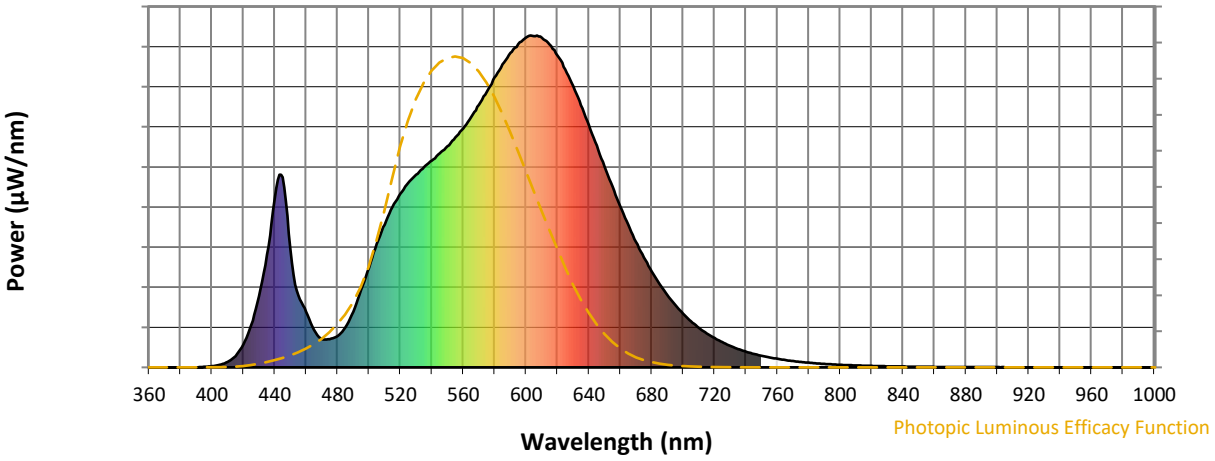


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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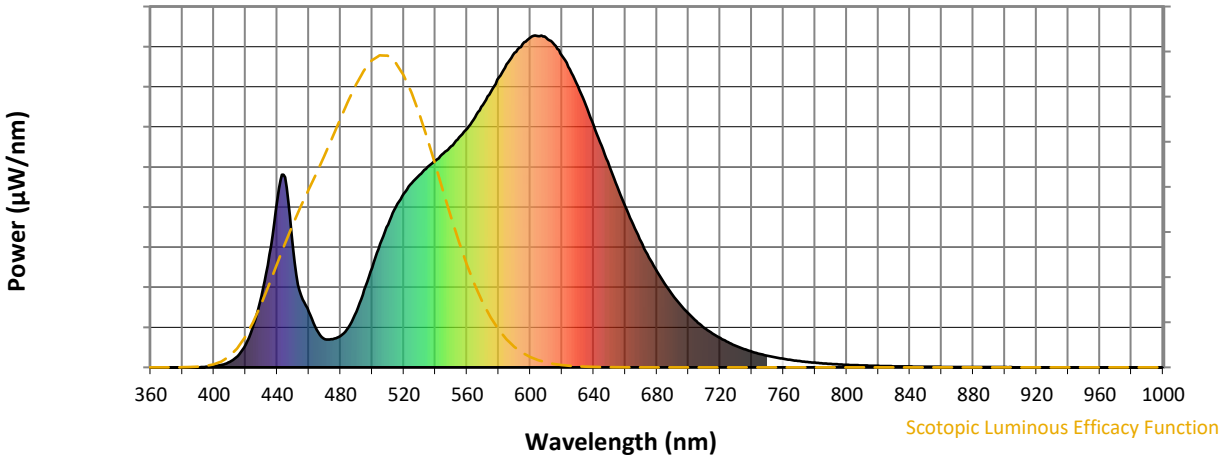
Scotopic Flux vs. Wavelength



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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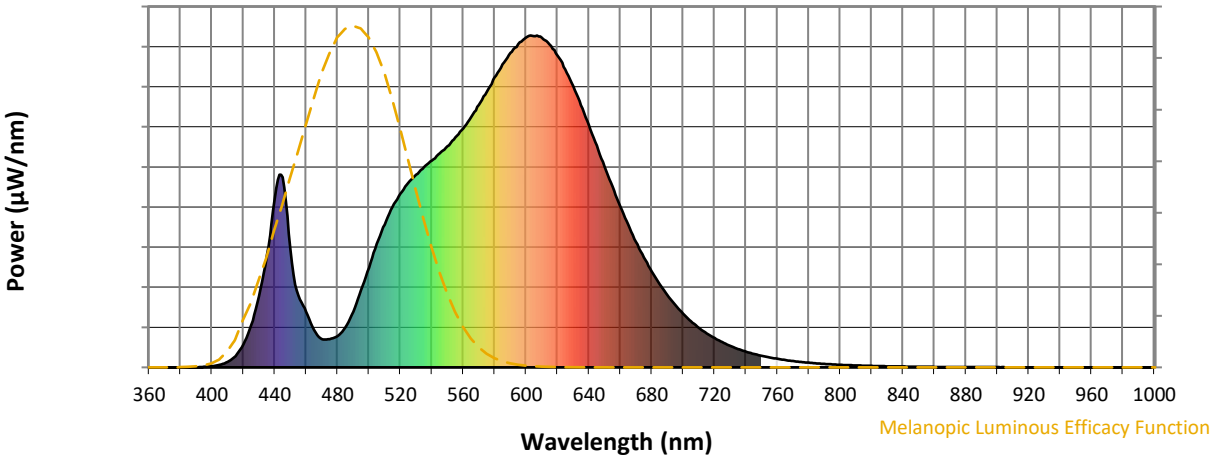
Melanopic Flux vs. Wavelength



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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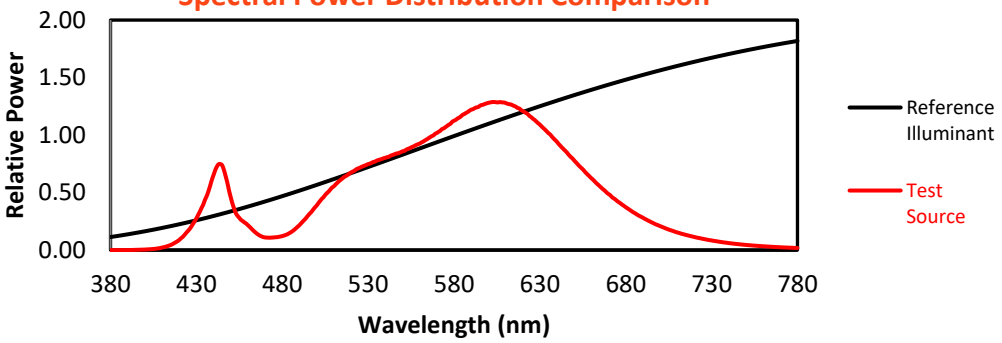
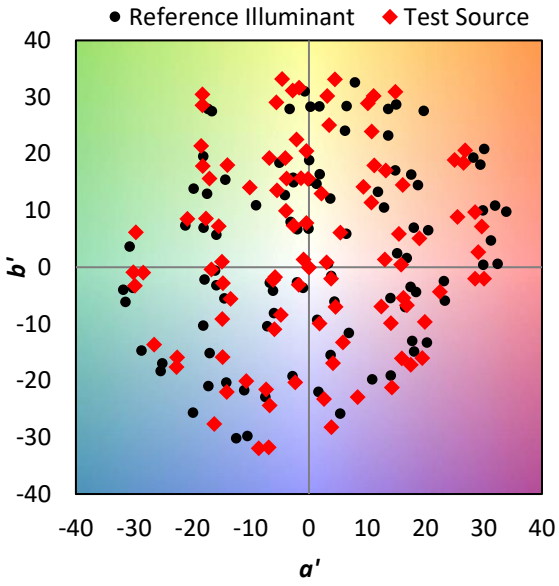
Summary

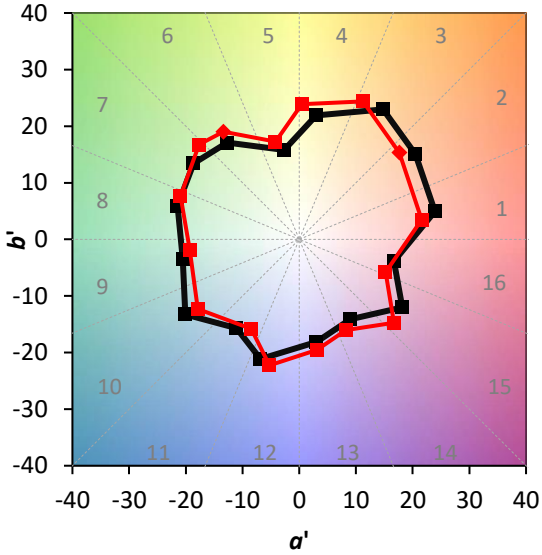
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

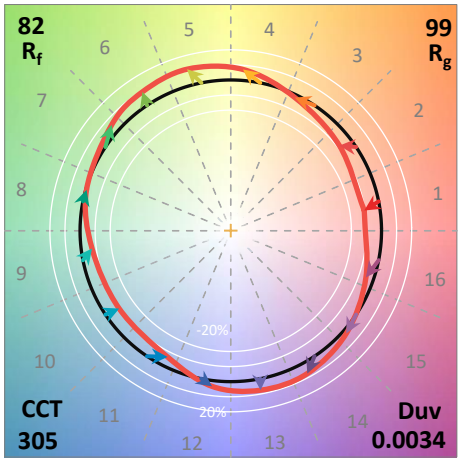
Spectral Power Distribution Comparison

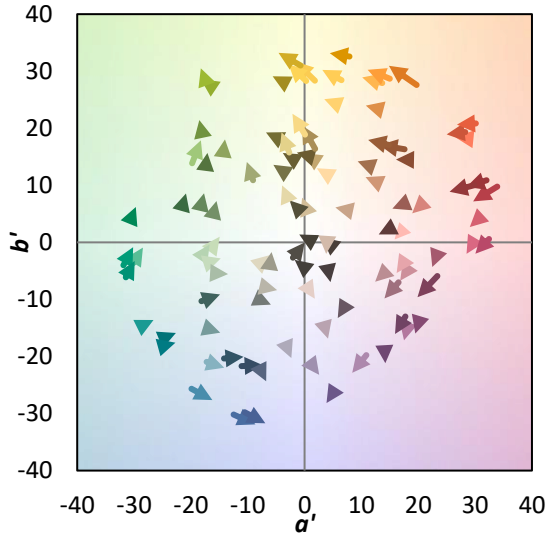


Color Vector Graphics









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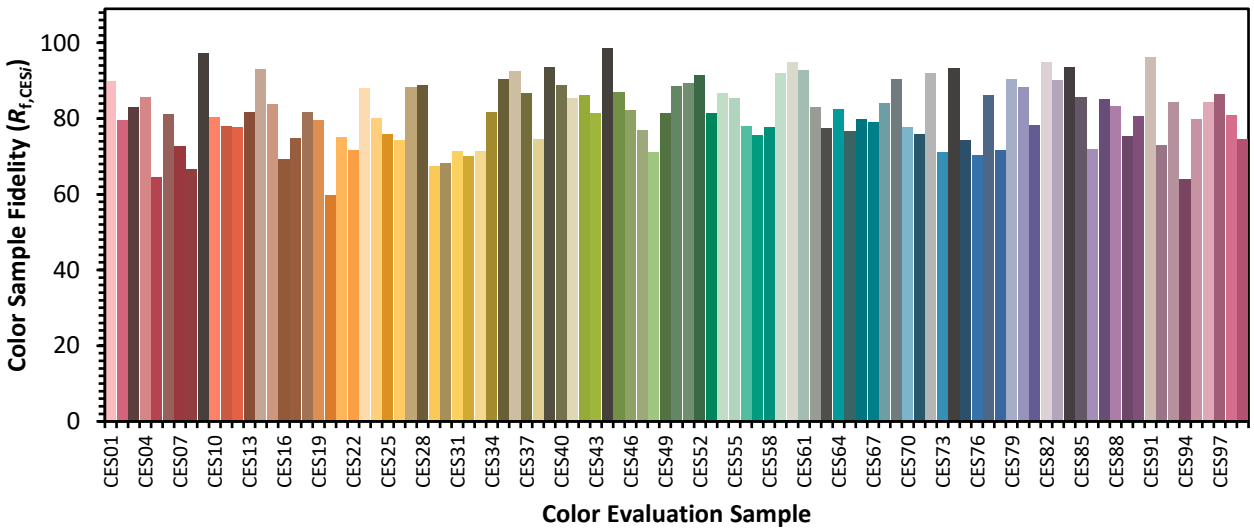
Individual Sample Fidelity Index ($R_{f,i}$)

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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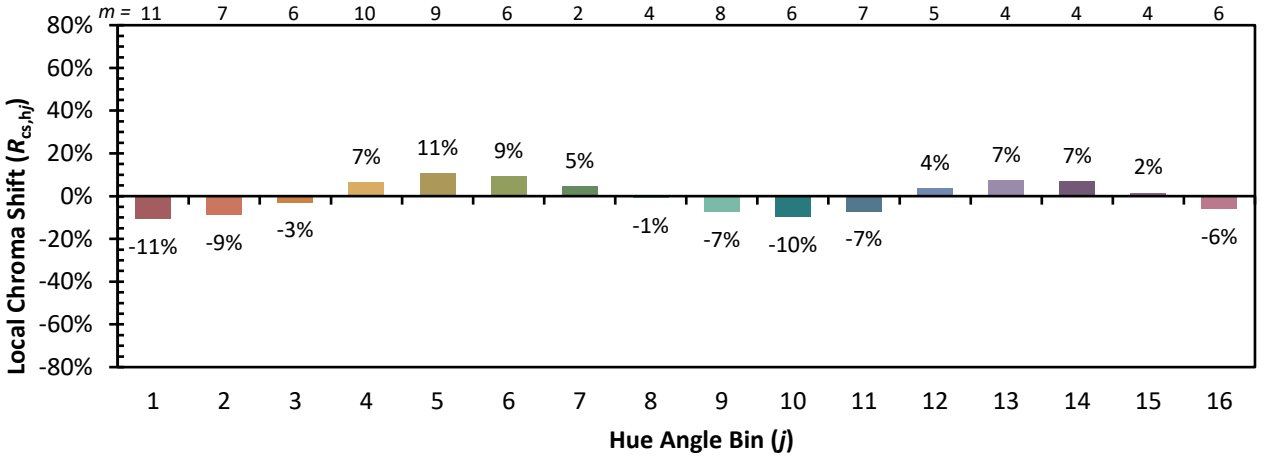
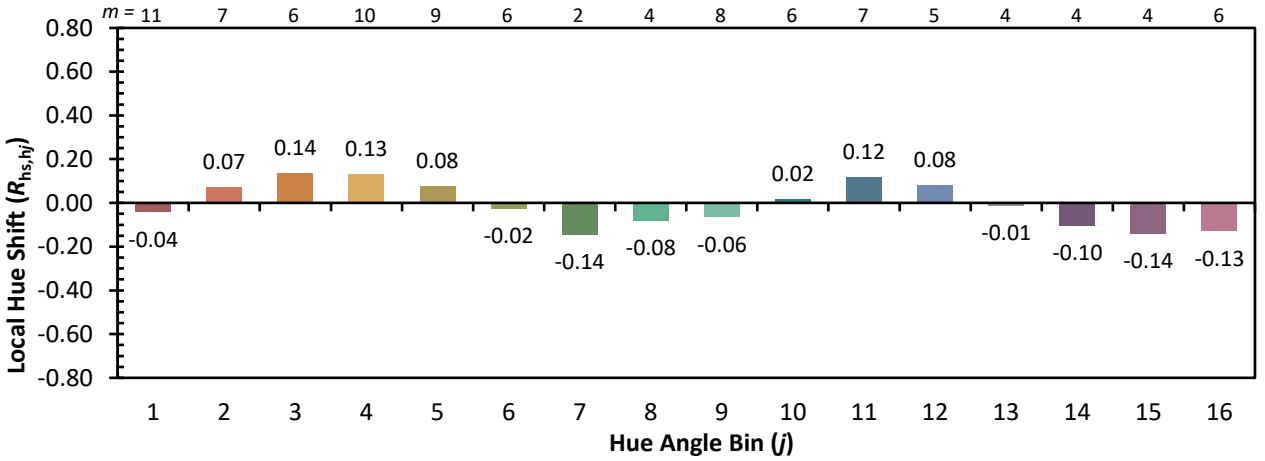
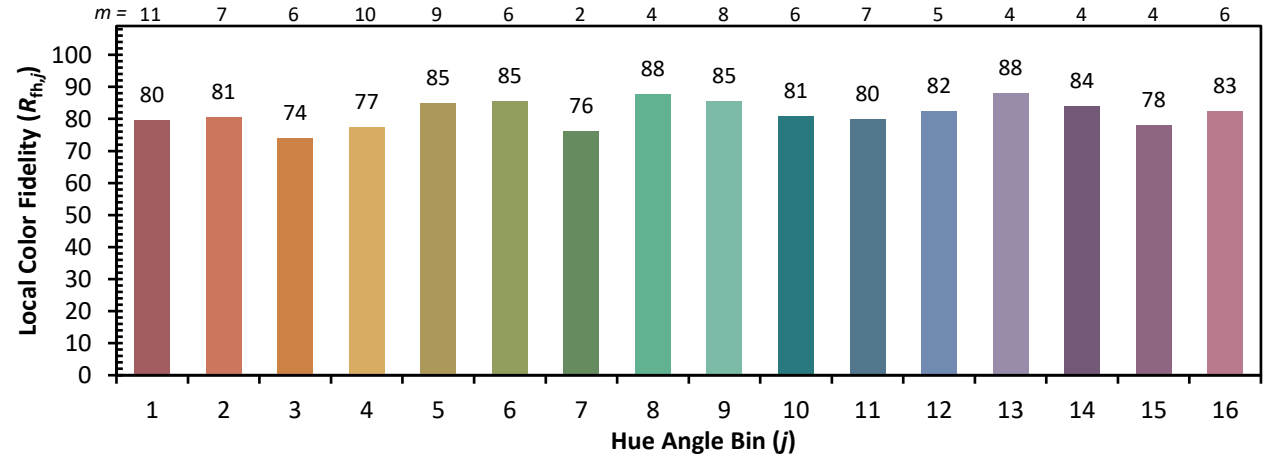
Color Rendition by Hue-Angle Bin







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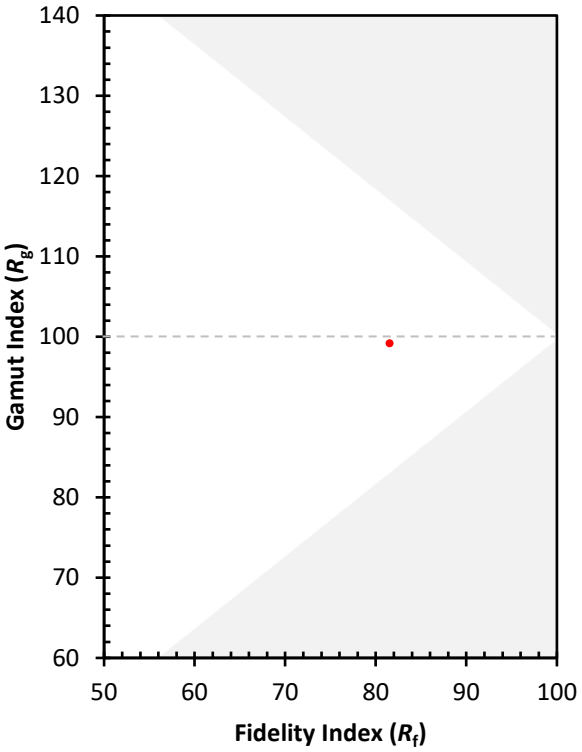
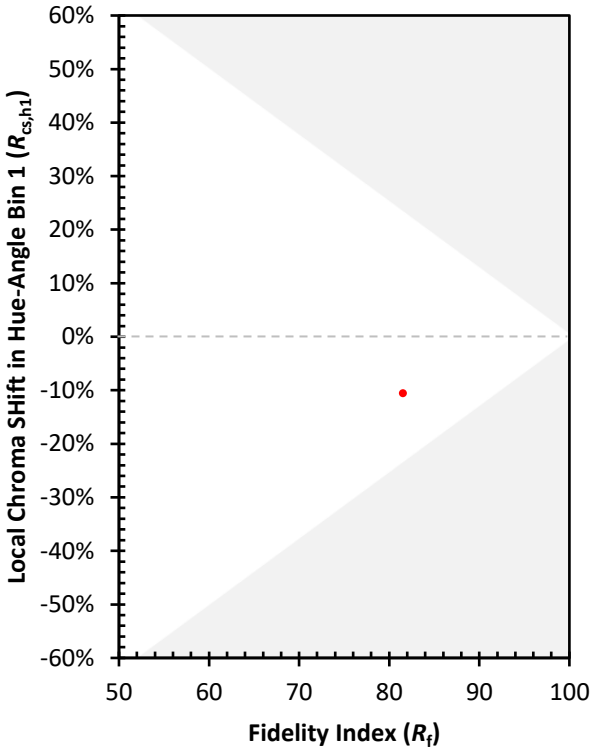
Measure Comparisons





(END OF REPORT)