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: P321115

Luminaire Tested: **GLEON-SA1B-830-U-AFL**

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:	P321115
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1B-830-U-AFL
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4878 lumens
Efficiency:	N/A
Efficacy:	110.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	44
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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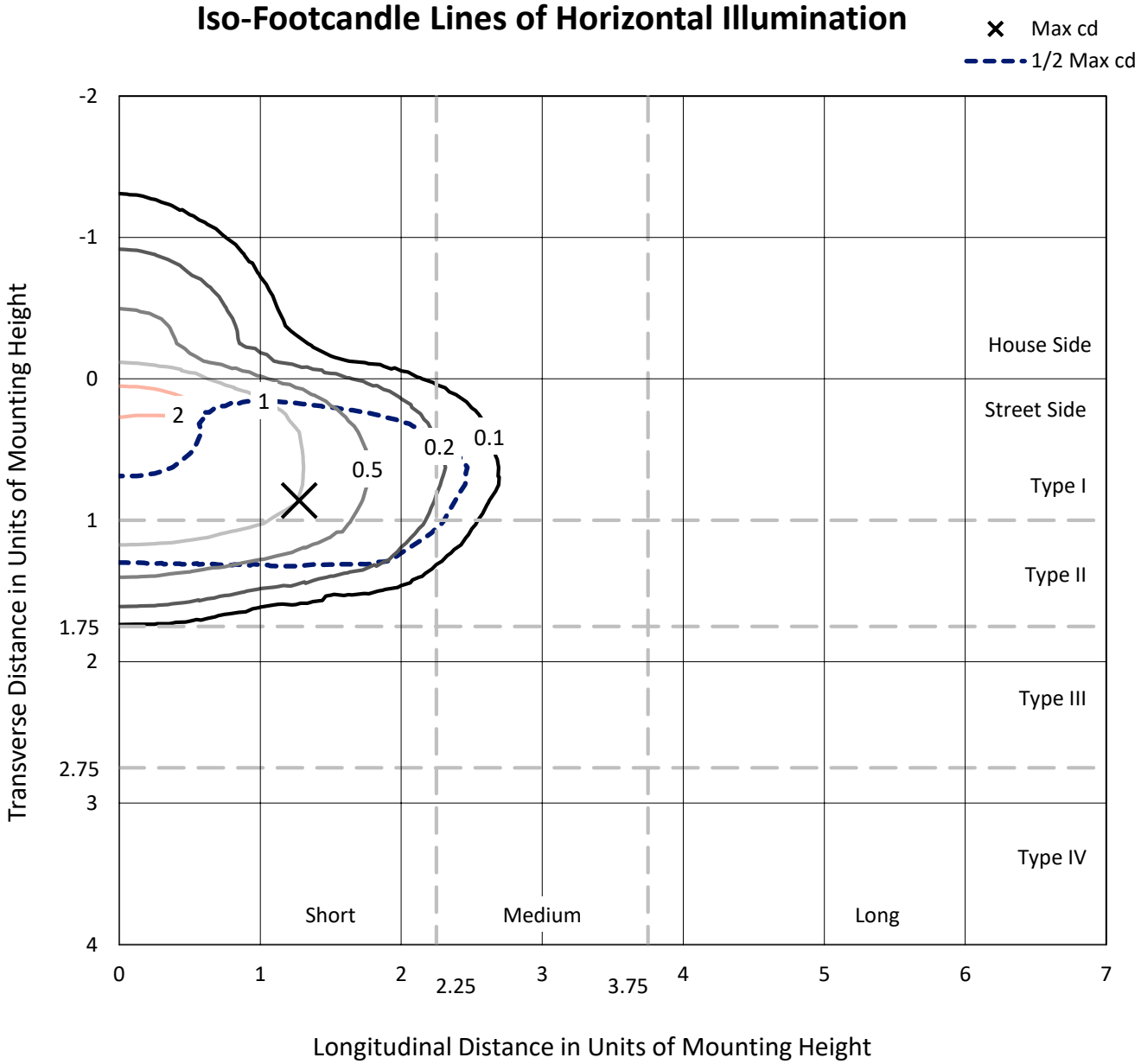
Scaled Data Report

REPORT NUMBER: P321115
CATALOG NUMBER: GLEON-SA1B-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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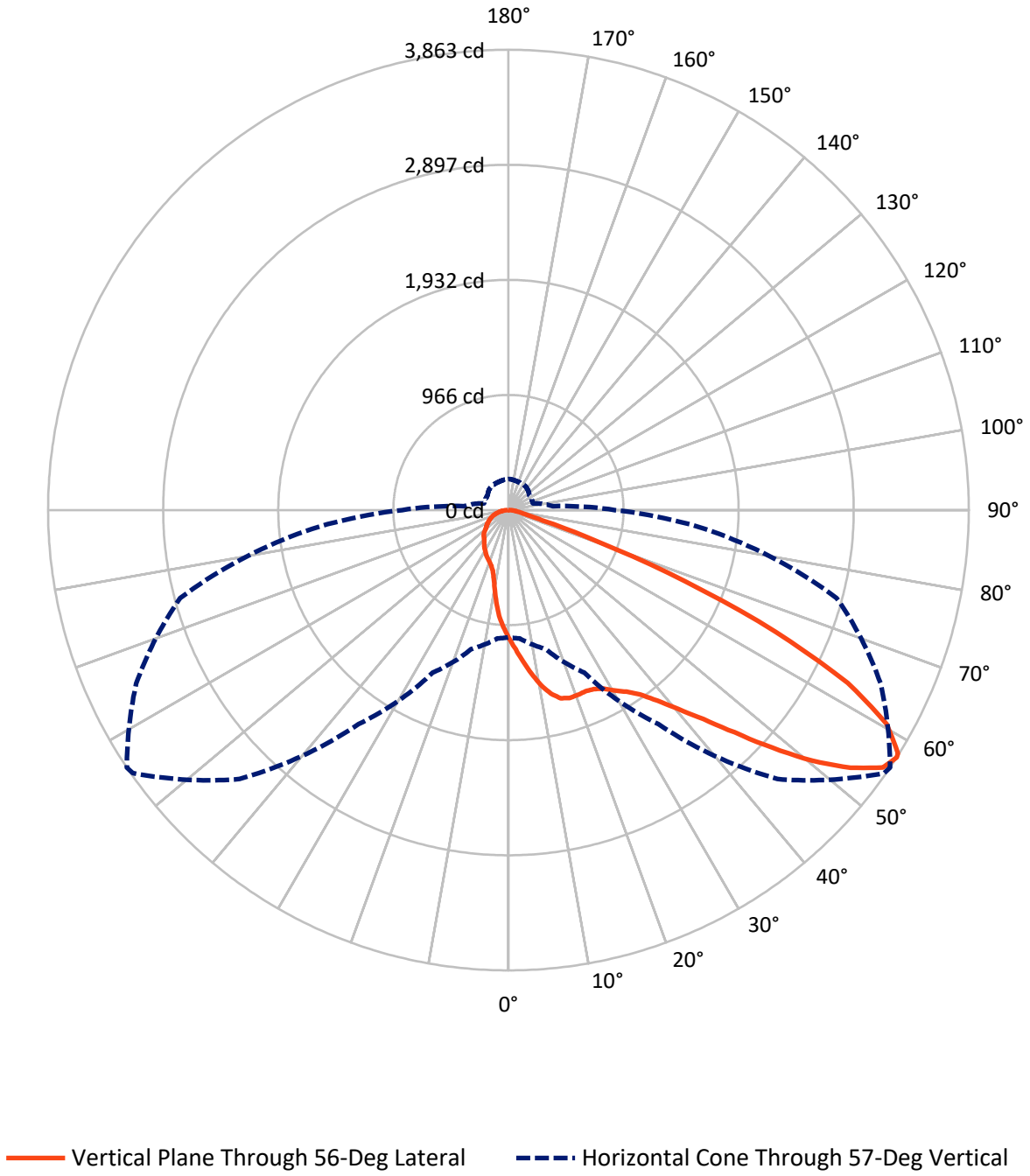
Luminous Intensity Polar Plot



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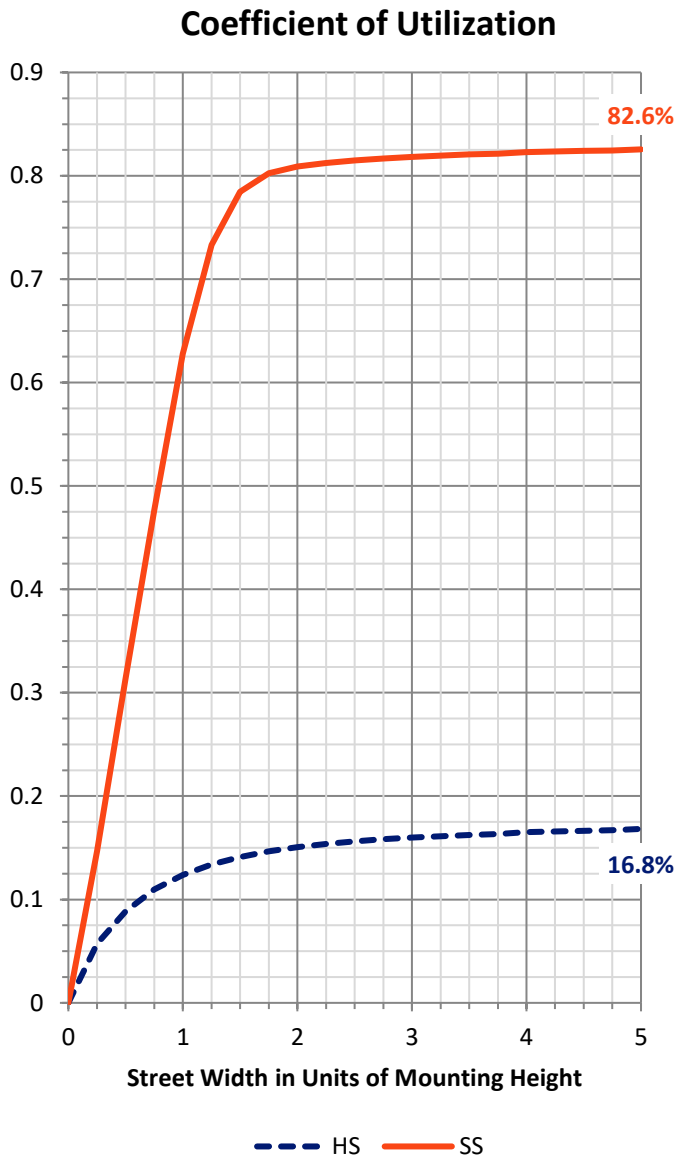
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.9	0.0	840.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4037.1	0.0	4037.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	4878.0	0.0	4878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	2.1
10°-20°	292.2	6.0
20°-30°	475.9	9.8
30°-40°	711.5	14.6
40°-50°	1079.2	22.1
50°-60°	1209.6	24.8
60°-70°	714.4	14.6
70°-80°	234.1	4.8
80°-90°	57.8	1.2
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°	4878.0	100.0
0°-180°	4878.0	100.0



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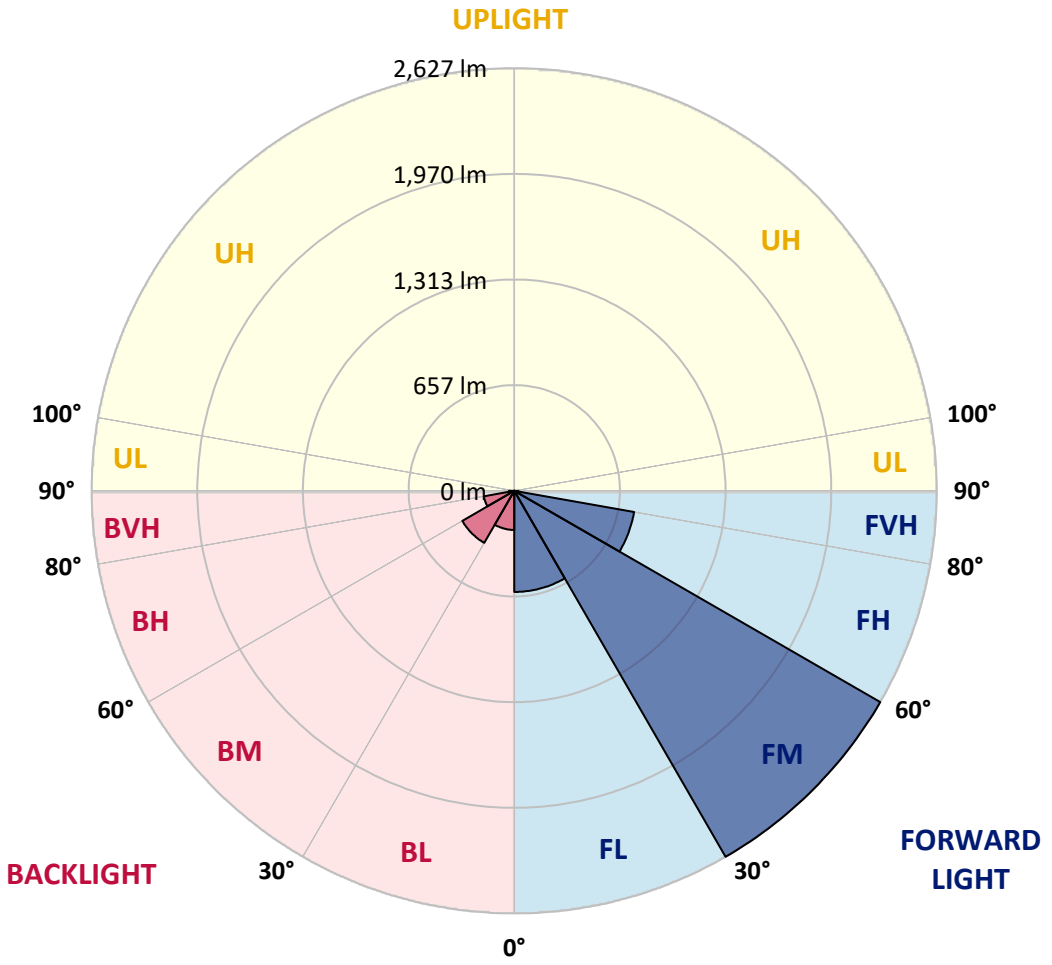
Scaled Data Report

REPORT NUMBER: P321115
CATALOG NUMBER: GLEON-SA1B-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	628.4	12.9			
FM	(30°-60°)	2627.0	53.9			
FH	(60°-80°)	756.3	15.5			G1/1800
FVH	(80°-90°)	25.5	0.5			G1/100
BL	(0°-30°)	243.1	5.0	B1/500		
BM	(30°-60°)	373.2	7.7	B1/1000		
BH	(60°-80°)	192.1	3.9	B1/500		G1/500
BVH	(80°-90°)	32.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P321115
CATALOG NUMBER: GLEON-SA1B-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	*1081.9*	1081.9	1081.9	1081.9
2.5°	1242.4	1253.8	1248.7	1231.3	1217.9	1199.0	1177.8	*1171.5*	1149.2	1124.2	1094.2
5°	1439.0	1433.3	1425.1	1397.9	1369.3	1335.9	1282.9	*1274.6*	1224.9	1168.4	1108.8
7.5°	1551.0	1550.5	1545.6	1529.7	1503.6	1460.0	1396.1	*1386.2*	1311.3	1220.4	1127.9
10°	1534.7	1533.6	1541.6	1558.2	1566.1	1557.0	1503.2	*1493.3*	1401.3	1277.9	1150.0
12.5°	1442.4	1443.0	1455.9	1490.8	1538.3	1595.3	1586.5	*1581.7*	1494.7	1343.0	1176.8
15°	1370.5	1372.0	1382.2	1412.5	1468.5	1572.0	1637.2	*1638.8*	1585.0	1414.7	1208.2
17.5°	1338.9	1342.1	1346.8	1368.1	1419.4	1525.5	1649.2	*1658.3*	1664.2	1489.1	1238.4
20°	1349.0	1352.0	1353.4	1366.9	1409.0	1497.4	1640.9	*1657.1*	1724.8	1559.2	1268.5
22.5°	1394.1	1395.9	1396.8	1400.3	1433.0	1505.4	1635.3	*1652.4*	1768.8	1622.1	1291.3
25°	1468.9	1467.5	1462.2	1457.6	1479.6	1537.3	1648.1	*1664.3*	1804.5	1679.1	1306.2
27.5°	1558.4	1556.7	1546.3	1533.9	1546.5	1586.9	1684.8	*1697.7*	1836.5	1732.4	1313.8
30°	1665.8	1661.5	1641.9	1627.1	1632.0	1661.3	1745.3	*1757.0*	1885.9	1792.9	1321.2
32.5°	1790.1	1785.4	1757.0	1732.6	1732.6	1757.0	1807.7	*1817.4*	1927.9	1861.3	1333.1
35°	1945.6	1939.8	1902.9	1861.8	1850.2	1862.6	1892.6	*1899.5*	2003.3	1947.5	1354.7
37.5°	2129.0	2121.1	2073.4	2018.4	1993.1	1992.4	2014.0	*2028.1*	2123.8	2060.6	1391.4
40°	2312.9	2307.4	2265.6	2222.4	2172.8	2156.8	2190.2	*2194.6*	2281.4	2201.1	1438.3
42.5°	2455.1	2454.1	2446.4	2452.1	2401.3	2369.1	2395.2	*2398.8*	2473.9	2353.2	1488.3
45°	2530.2	2531.9	2569.2	2652.1	2670.8	2647.4	2660.3	*2661.3*	2693.8	2506.5	1534.1
47.5°	2470.0	2478.7	2573.3	2758.5	2912.2	2990.2	2968.7	*2981.1*	2907.0	2638.3	1569.9
50°	2235.5	2246.2	2407.1	2711.1	3024.9	3321.9	3310.7	*3307.9*	3079.0	2734.9	1589.4
52.5°	1945.0	1953.3	2086.1	2464.5	2942.2	3505.3	3608.4	*3593.7*	3231.9	2807.1	1593.1
55°	1502.6	1515.6	1642.9	1972.3	2608.0	3435.3	3827.4	*3814.1*	3371.2	2845.0	1588.7
57°	*1068.2*	*1081.9*	*1208.3*	*1505.2*	*2193.9*	*3192.7*	*3849.2*	*3863.3*	*3446.5*	*2851.4*	*1593.6*
57.5°	953.2	967.3	1092.5	1380.8	2064.8	3105.0	3830.4	*3853.9*	3460.1	2850.4	1596.3
60°	480.0	485.3	565.1	770.8	1305.2	2510.2	3585.5	*3646.0*	3472.3	2801.1	1607.8
62.5°	298.4	294.5	292.0	355.1	635.0	1664.7	3080.0	*3196.5*	3238.1	2681.7	1579.8
65°	262.4	255.1	227.5	222.5	280.5	808.5	2319.5	*2464.5*	2737.7	2493.6	1513.1
67.5°	246.4	239.4	208.2	189.4	189.6	320.5	1440.0	*1603.3*	2132.7	2175.6	1355.7
70°	230.0	223.6	194.5	172.3	161.4	177.5	662.5	*786.4*	1390.2	1710.1	1133.1
72.5°	208.9	204.5	176.9	154.1	142.5	132.9	253.6	*299.6*	804.8	1148.5	786.9
75°	186.8	182.7	159.1	137.3	123.2	104.6	142.8	*153.9*	408.9	587.6	387.4
77.5°	162.4	160.1	141.5	121.4	110.1	86.7	101.1	*106.5*	175.4	252.0	194.3
80°	129.2	133.8	123.7	108.1	97.7	69.4	71.6	*75.1*	102.1	123.0	110.3
82.5°	84.2	92.0	96.9	87.8	80.5	54.7	51.5	*53.0*	66.6	75.1	47.9
85°	35.0	39.4	63.7	57.5	53.5	39.9	34.5	*35.2*	41.2	42.7	19.6
87.5°	15.6	16.6	28.0	26.3	22.6	13.7	14.8	*16.1*	22.0	20.8	7.5
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: P321115
CATALOG NUMBER: GLEON-SA1B-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9	1081.9
2.5°	1083.0	1068.9	1044.7	1018.1	996.3	978.8	961.2	949.2	935.1	927.5	923.7
5°	1083.8	1056.1	1005.3	953.2	906.6	864.0	823.4	792.3	763.1	747.3	743.0
7.5°	1087.3	1045.7	963.6	877.8	794.9	719.3	661.0	624.5	598.1	586.4	583.0
10°	1090.2	1033.5	912.0	784.9	672.2	595.6	550.4	529.9	520.9	519.3	517.8
12.5°	1096.9	1020.9	857.6	688.0	576.8	523.9	508.1	506.8	509.3	513.0	513.0
15°	1107.4	1008.5	795.6	604.8	516.2	497.6	500.7	508.1	515.0	520.7	521.5
17.5°	1115.1	993.3	728.9	538.3	483.8	488.8	500.2	510.6	517.7	523.2	523.7
20°	1120.7	969.6	657.6	487.5	465.2	480.8	495.0	504.3	509.1	514.7	515.5
22.5°	1117.8	937.9	594.4	451.1	450.1	469.1	482.6	493.7	490.0	484.6	488.2
25°	1104.1	894.4	529.4	424.0	434.2	453.3	470.1	462.7	450.3	447.9	449.3
27.5°	1079.6	838.7	469.2	398.8	415.7	438.7	437.7	430.3	426.0	423.0	424.8
30°	1053.3	778.3	416.6	376.9	395.3	414.2	410.4	410.2	405.9	401.0	403.3
32.5°	1027.3	717.7	374.8	358.7	379.9	382.4	390.8	393.3	384.7	374.5	373.8
35°	1004.7	660.3	343.2	342.3	361.3	361.6	373.8	370.3	349.0	338.5	338.5
37.5°	987.7	603.2	319.0	327.6	336.8	345.5	351.7	337.1	333.6	327.7	327.6
40°	980.4	552.9	303.9	316.3	319.5	330.6	314.7	320.4	322.0	319.0	319.0
42.5°	972.6	509.1	290.9	307.8	307.3	305.8	297.7	305.1	311.8	312.0	311.5
45°	964.9	471.4	279.3	289.5	296.6	280.3	281.8	289.7	299.1	302.4	302.4
47.5°	956.4	441.6	268.7	270.2	281.1	270.2	269.1	275.1	286.2	291.5	292.7
50°	937.6	414.7	256.7	253.3	256.3	260.0	261.0	263.9	276.1	284.7	286.7
52.5°	911.6	390.8	241.2	237.7	237.7	251.6	256.3	257.2	267.6	277.8	279.8
55°	890.0	375.5	225.3	224.6	224.0	242.7	250.8	252.1	259.3	267.4	268.4
57°	*891.5*	*374.3*	*213.1*	*213.7*	*213.6*	*233.7*	*245.6*	*248.4*	*252.1*	*259.0*	*260.2*
57.5°	892.3	375.2	210.4	210.7	210.6	231.2	244.1	247.3	250.1	257.3	258.5
60°	904.9	377.4	199.5	195.8	196.6	217.8	235.5	239.6	241.4	251.0	252.5
62.5°	886.3	367.6	190.8	181.9	181.9	203.7	223.6	230.0	232.9	245.8	248.3
65°	832.3	340.3	180.5	166.1	167.8	189.6	209.4	219.8	224.1	240.2	242.9
67.5°	749.0	308.6	169.7	152.0	153.7	174.8	194.6	205.9	212.7	234.2	236.4
70°	640.6	269.9	154.9	137.1	139.1	158.8	177.2	189.9	200.2	228.5	229.2
72.5°	472.2	221.3	134.3	120.7	122.9	140.0	159.6	174.3	188.1	214.2	213.9
75°	280.8	173.0	111.5	104.1	105.6	121.5	143.7	161.6	182.2	208.7	211.9
77.5°	170.3	130.3	90.9	87.2	89.0	105.3	132.3	151.4	179.7	196.8	195.8
80°	102.9	93.0	72.6	70.2	72.1	90.0	122.4	143.7	157.1	168.1	168.1
82.5°	53.8	56.8	53.3	51.5	54.0	73.1	111.3	125.4	138.8	119.2	111.3
85°	22.0	29.7	32.4	32.2	33.7	50.6	96.1	107.3	89.5	85.0	87.0
87.5°	7.4	12.6	15.8	13.6	14.2	31.9	66.6	51.8	61.5	42.9	40.7
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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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

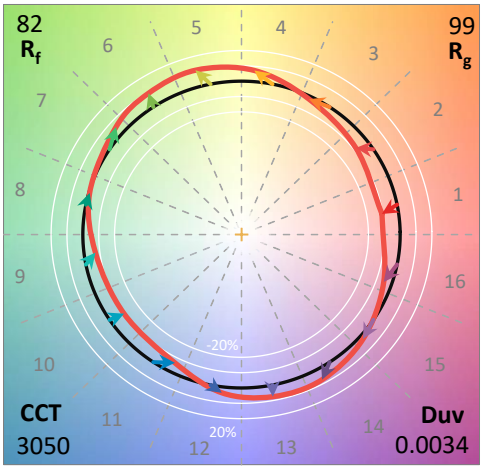
Test Information

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

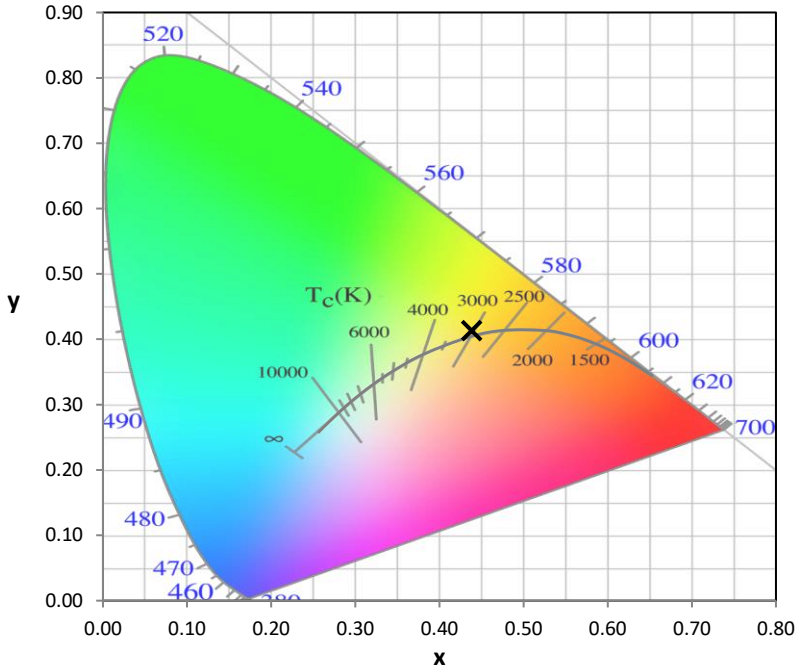
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

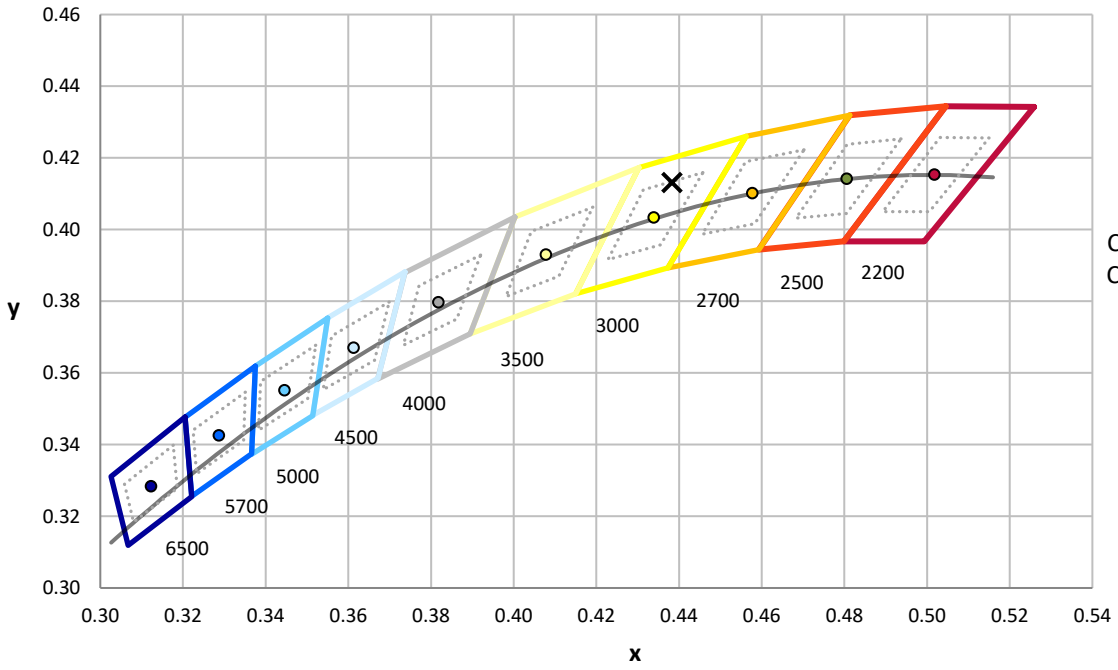
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

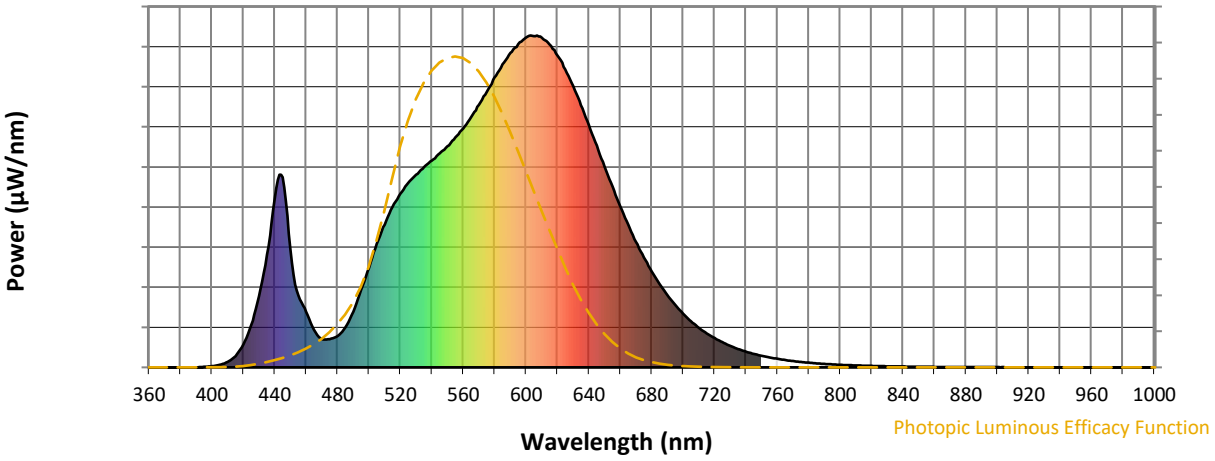


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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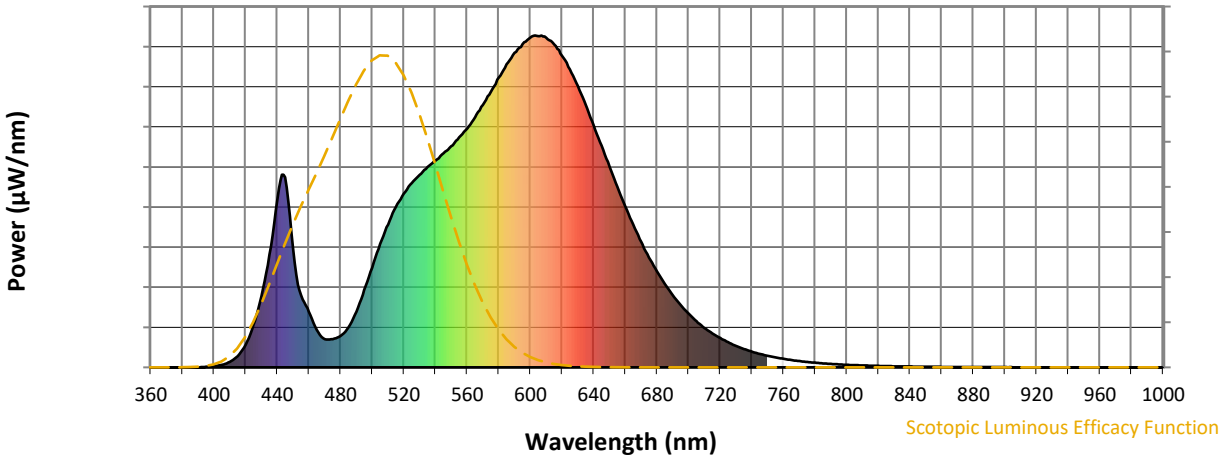
Scotopic Flux vs. Wavelength



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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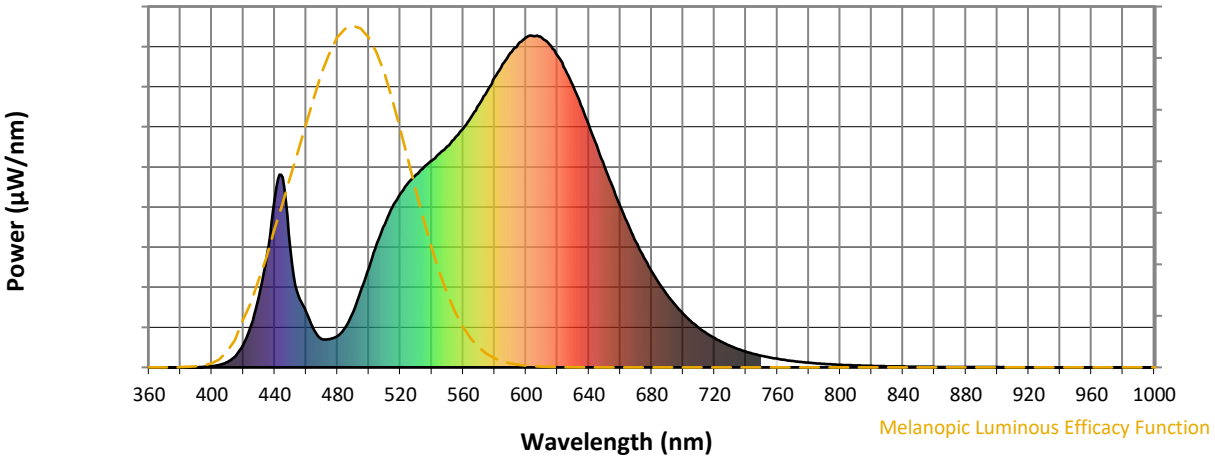
Melanopic Flux vs. Wavelength



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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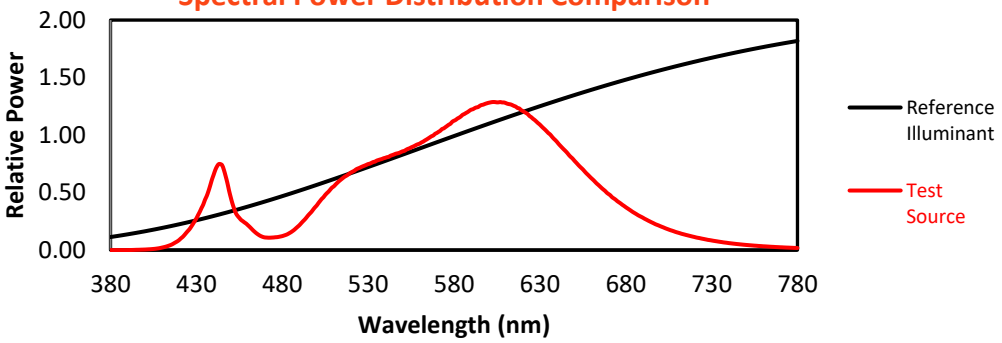
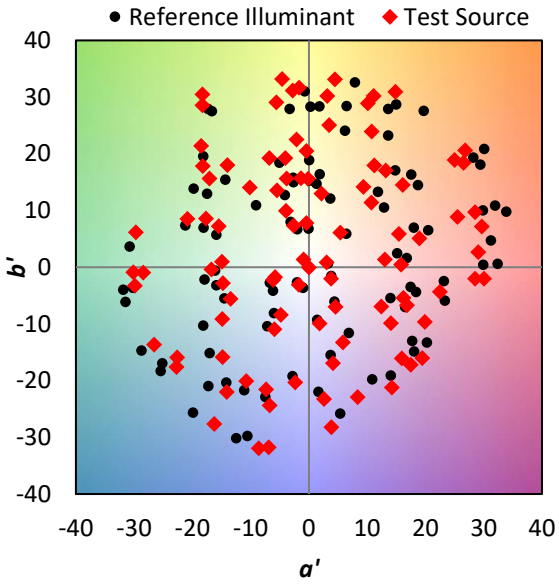
Summary

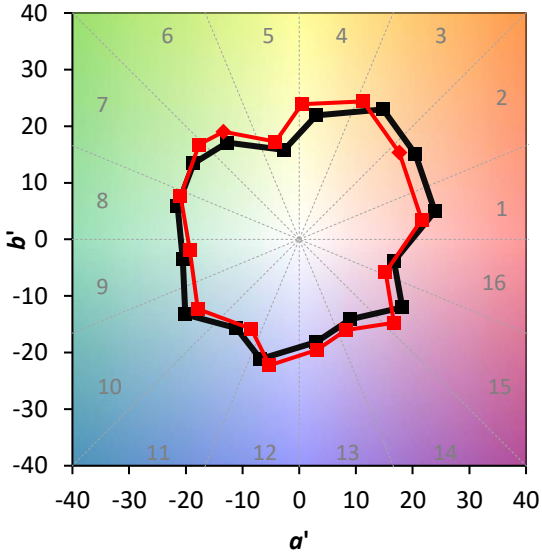
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

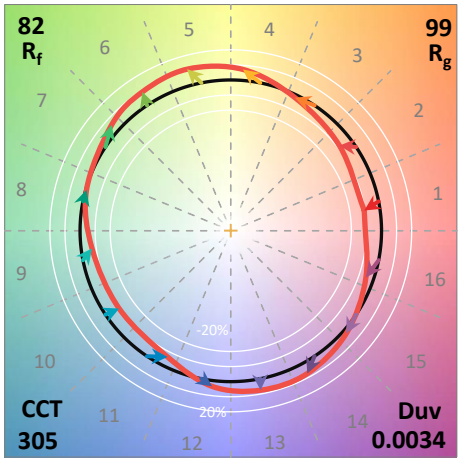
Spectral Power Distribution Comparison

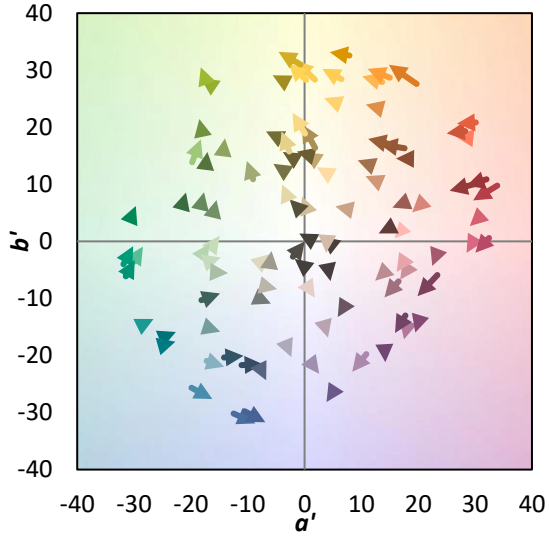


Color Vector Graphics









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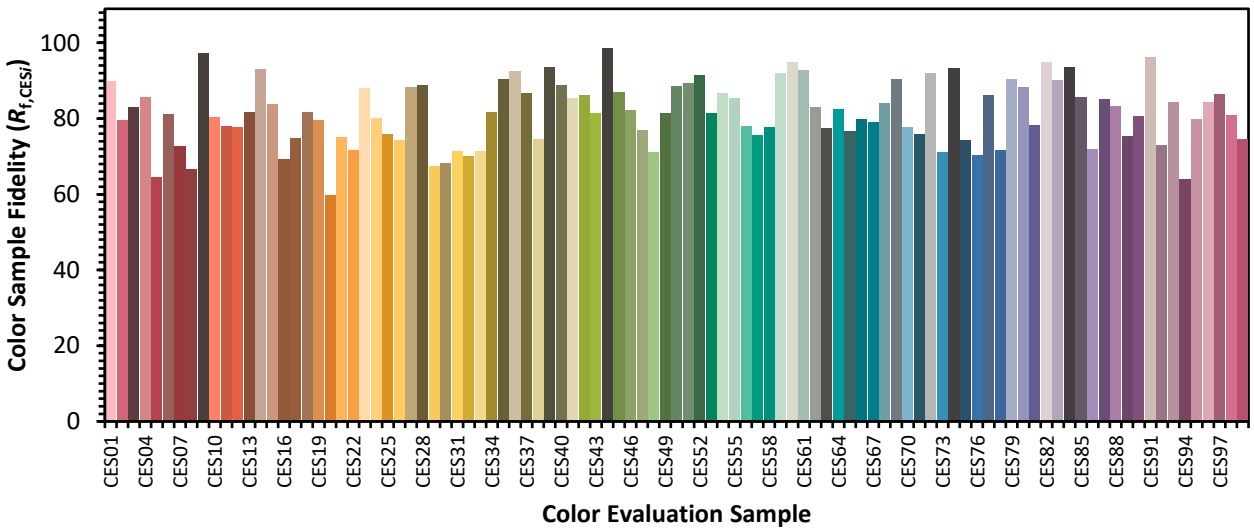
Individual Sample Fidelity Index ($R_{f,i}$)

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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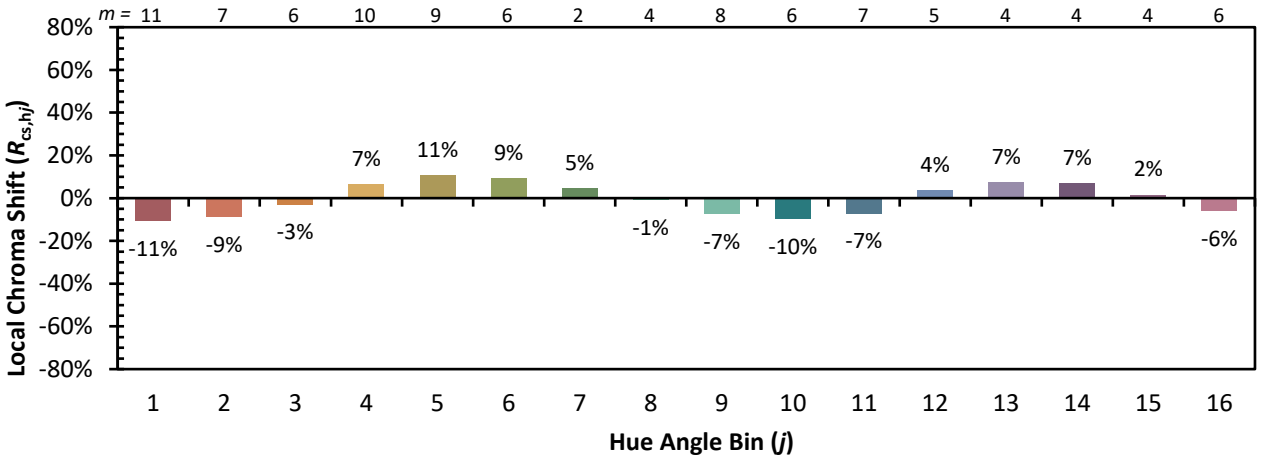
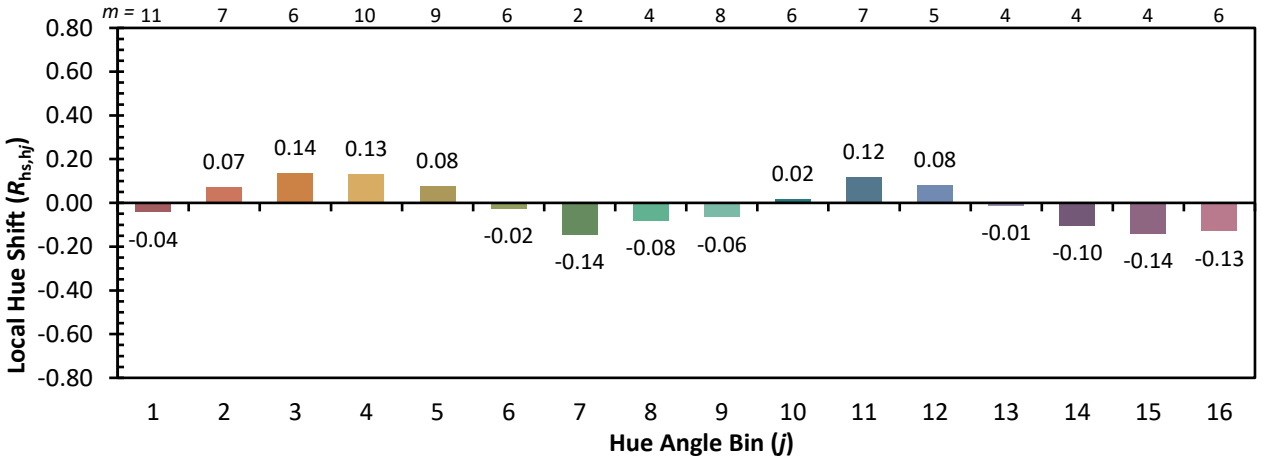
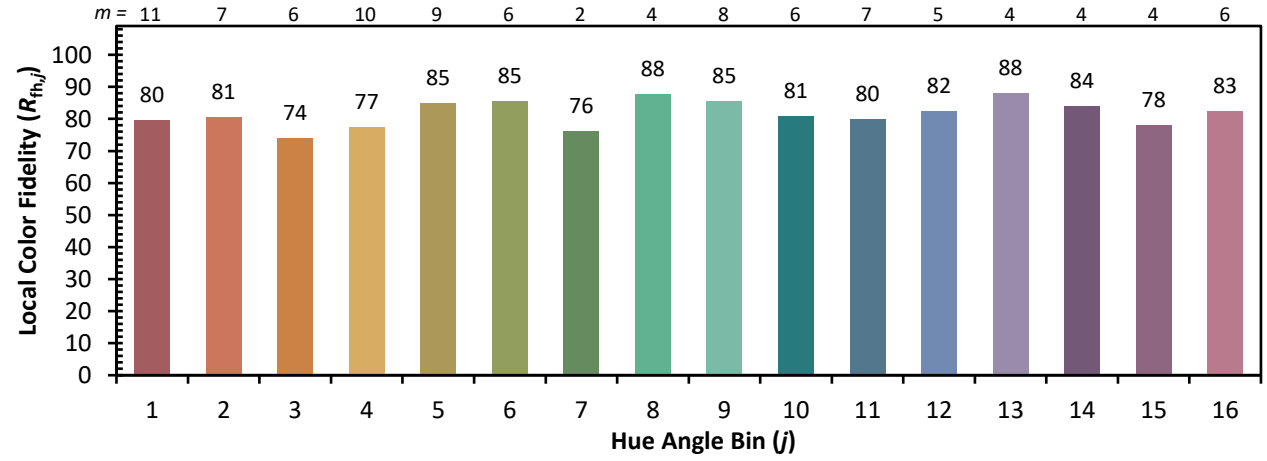
Color Rendition by Hue-Angle Bin







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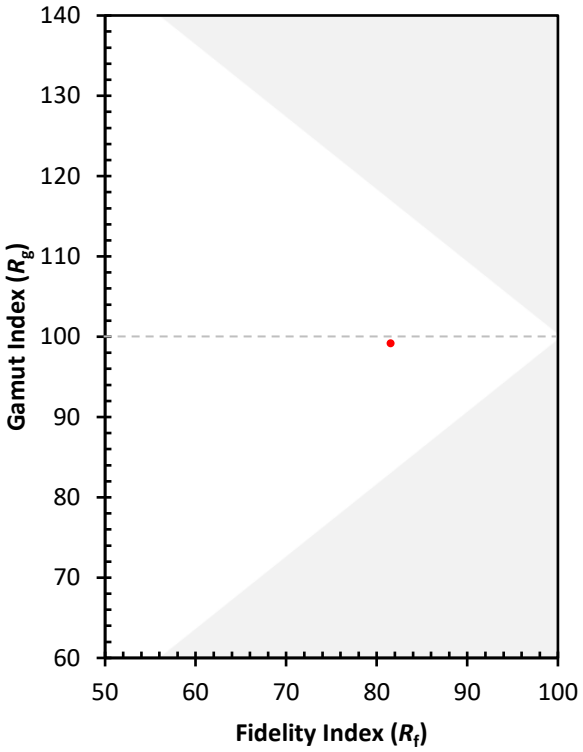
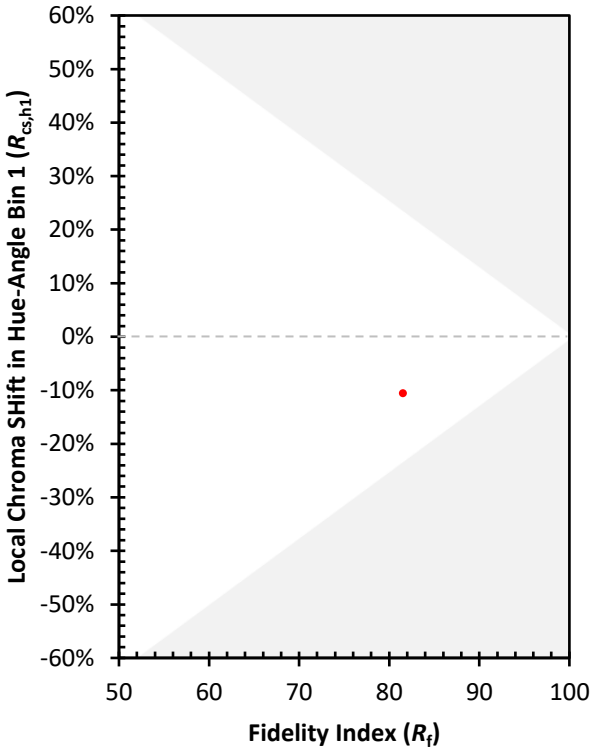
Measure Comparisons





(END OF REPORT)