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: P317586

Luminaire Tested: **GLEON-SA2A-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:	P317586
	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-SA2A-830-U-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 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:	7894 lumens
Efficiency:	N/A
Efficacy:	119.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
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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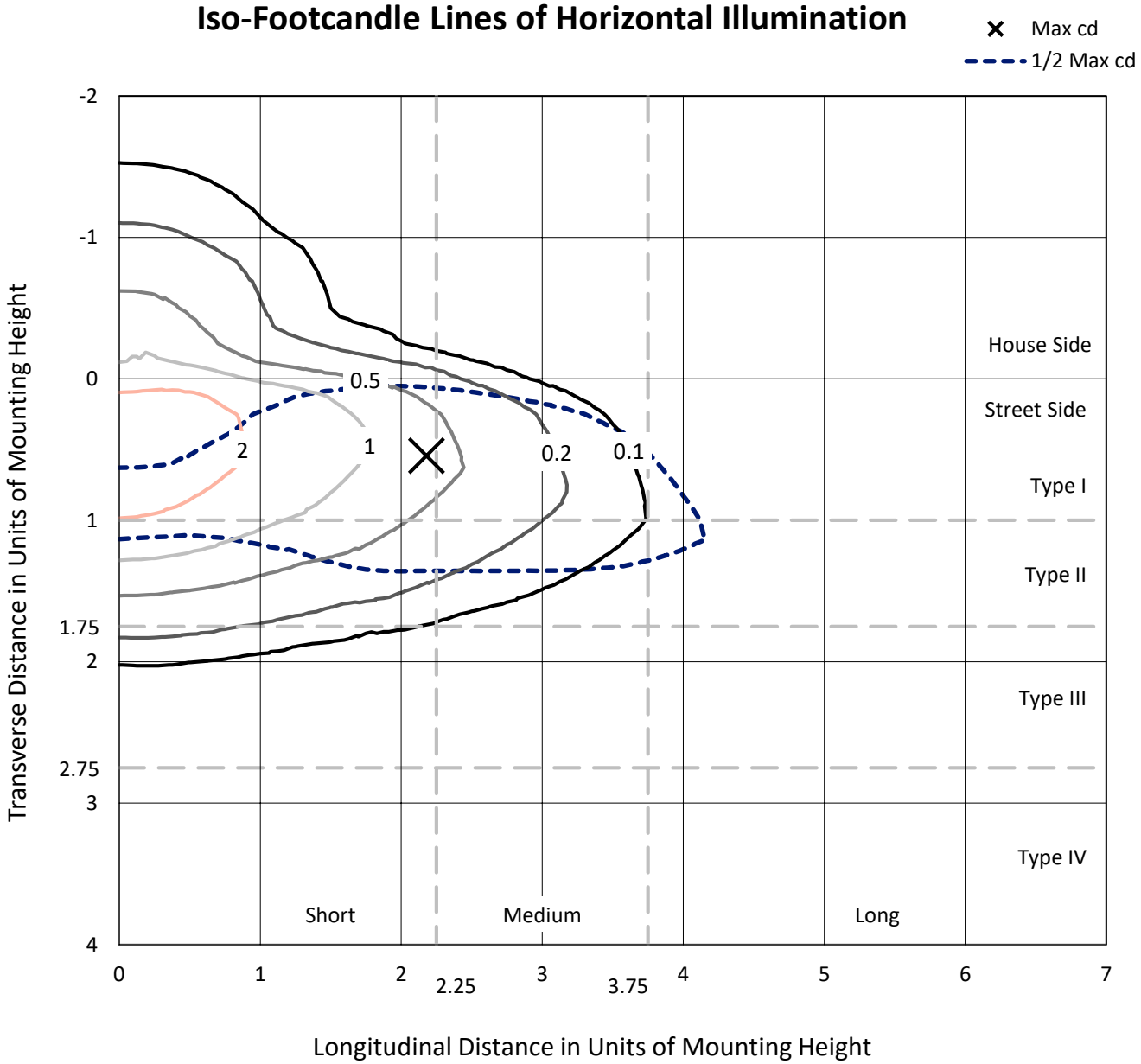
Scaled Data Report

REPORT NUMBER: P317586
CATALOG NUMBER: GLEON-SA2A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Short - N/A

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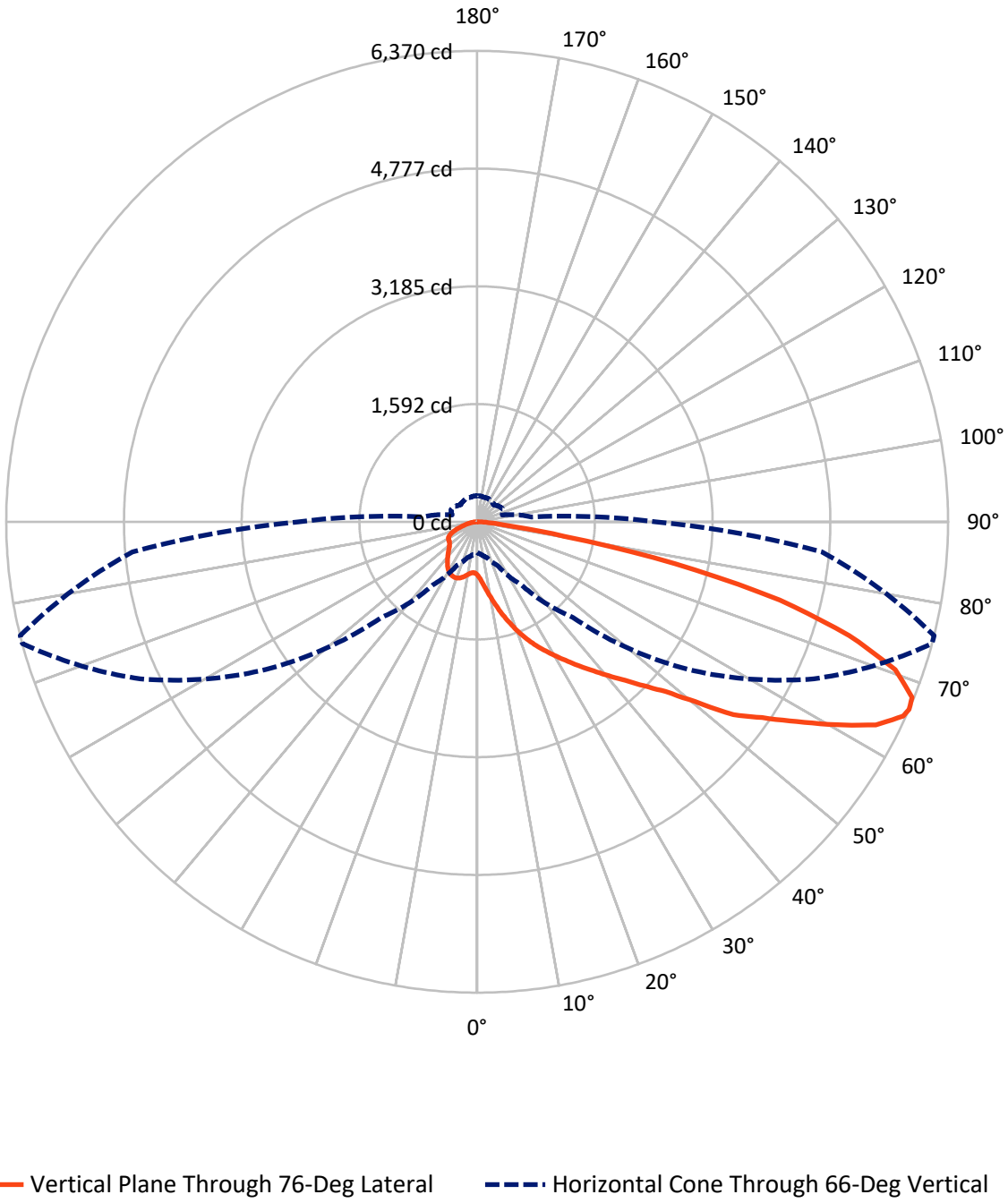
Luminous Intensity Polar Plot



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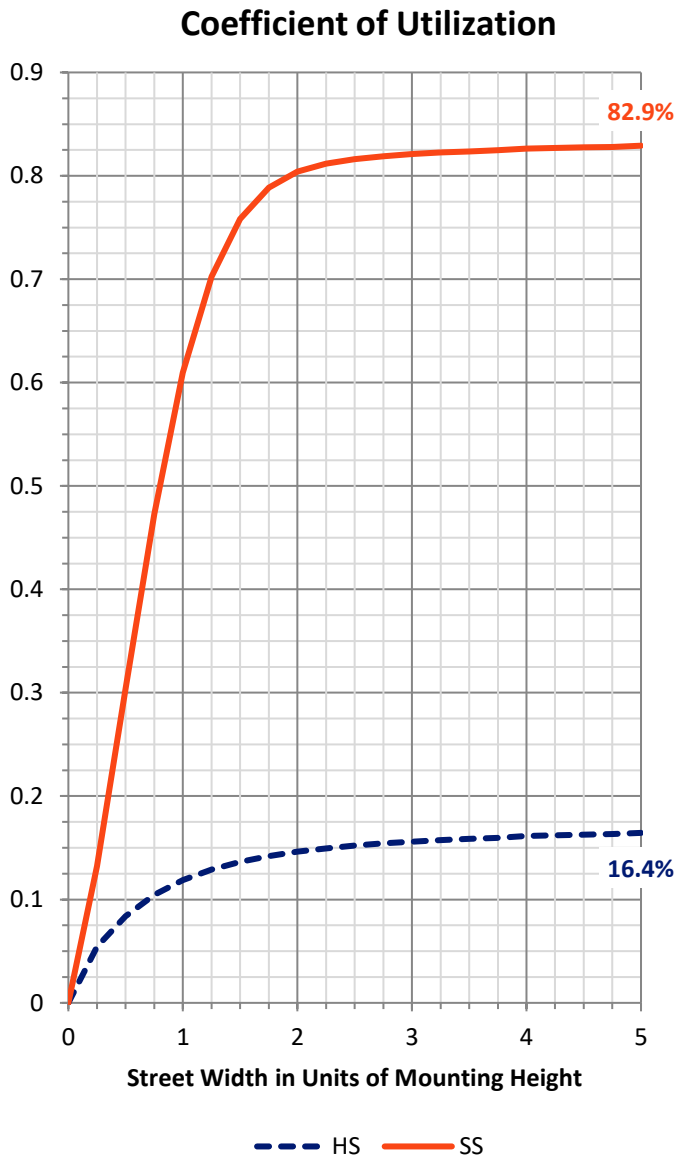
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1328.3	0.0	1328.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6565.7	0.0	6565.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	7894.0	0.0	7894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.1
10°-20°	344.3	4.4
20°-30°	669.0	8.5
30°-40°	1091.9	13.8
40°-50°	1491.8	18.9
50°-60°	1737.7	22.0
60°-70°	1557.8	19.7
70°-80°	787.3	10.0
80°-90°	127.1	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°	7894.0	100.0
0°-180°	7894.0	100.0



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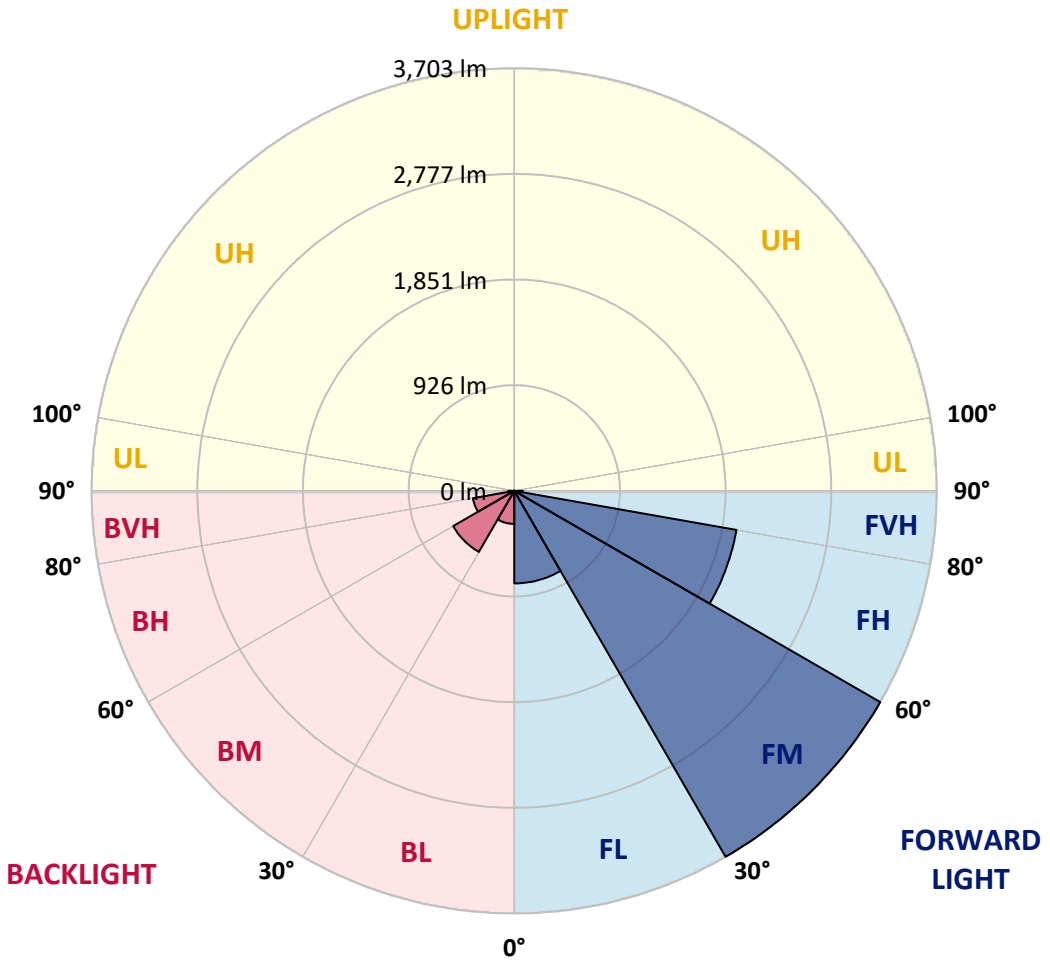
Scaled Data Report

REPORT NUMBER: P317586
CATALOG NUMBER: GLEON-SA2A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	810.7	10.3			
FM	(30°-60°)	3702.8	46.9			
FH	(60°-80°)	1977.1	25.0			G2/5000
FVH	(80°-90°)	75.1	1.0			G1/100
BL	(0°-30°)	289.7	3.7	B1/500		
BM	(30°-60°)	618.5	7.8	B1/1000		
BH	(60°-80°)	368.0	4.7	B1/500		G1/500
BVH	(80°-90°)	52.1	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-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P317586
CATALOG NUMBER: GLEON-SA2A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	*720.9*	720.9
2.5°	957.0	942.5	941.2	920.0	915.2	874.7	845.0	813.9	778.5	*771.6*	743.7
5°	1229.3	1227.9	1209.5	1174.9	1147.8	1078.7	1010.3	938.0	858.6	*845.8*	783.1
7.5°	1474.2	1472.1	1457.9	1420.6	1381.5	1296.5	1199.0	1088.1	959.4	*940.4*	836.4
10°	1660.2	1659.4	1654.6	1627.3	1594.0	1512.6	1404.8	1253.4	1076.5	*1050.5*	903.1
12.5°	1803.9	1805.5	1808.7	1799.0	1783.2	1713.8	1603.4	1428.7	1201.4	*1175.7*	977.4
15°	1901.1	1906.0	1922.6	1936.2	1944.6	1901.9	1795.0	1608.0	1341.3	*1310.5*	1059.6
17.5°	1950.2	1955.5	1984.2	2025.5	2063.5	2059.3	1974.3	1778.9	1475.6	*1445.8*	1148.1
20°	1992.5	1996.5	2028.7	2078.3	2145.5	2175.3	2127.6	1943.5	1622.7	*1587.3*	1241.9
22.5°	2115.3	2120.4	2130.0	2158.1	2217.6	2272.3	2249.3	2099.2	1757.5	*1724.5*	1330.9
25°	2352.2	2358.3	2337.4	2313.6	2324.8	2362.9	2367.2	2241.2	1894.2	*1856.9*	1426.5
27.5°	2637.6	2646.4	2610.8	2549.4	2495.8	2481.1	2476.0	2357.5	2024.7	*1981.5*	1521.1
30°	2917.1	2932.4	2886.0	2806.4	2708.1	2638.9	2587.7	2471.4	2153.3	*2112.1*	1610.4
32.5°	3190.2	3184.0	3116.8	3039.0	2923.8	2837.2	2713.4	2593.6	2298.0	*2250.6*	1699.1
35°	3377.2	3379.4	3316.9	3224.8	3114.9	3048.4	2881.7	2725.5	2445.7	*2402.0*	1799.8
37.5°	3536.4	3526.5	3455.8	3369.7	3275.1	3246.7	3078.7	2870.7	2605.7	*2558.0*	1907.0
40°	3589.5	3578.0	3531.6	3469.7	3393.9	3391.4	3296.0	3035.3	2786.6	*2739.4*	2027.9
42.5°	3557.3	3542.6	3523.6	3506.7	3483.4	3494.1	3500.3	3228.2	2985.4	*2932.6*	2167.8
45°	3438.6	3416.4	3429.8	3466.5	3517.1	3577.7	3684.6	3441.8	3208.1	*3163.9*	2332.1
47.5°	3256.1	3236.0	3277.8	3356.3	3494.1	3647.4	3859.1	3677.7	3474.0	*3430.0*	2566.0
50°	2999.4	3005.3	3065.0	3207.9	3416.1	3679.5	4074.0	3989.9	3860.4	*3819.4*	2885.2
52.5°	2578.1	2579.2	2747.5	2982.0	3277.8	3662.9	4193.3	4388.9	4388.1	*4338.5*	3189.1
55°	2186.8	2210.7	2343.9	2655.5	3053.8	3596.5	4276.6	4582.9	4734.6	*4676.5*	3472.4
57.5°	1804.7	1818.6	1944.8	2257.8	2734.1	3419.3	4362.1	4815.8	5133.9	*5097.2*	3824.5
60°	1370.0	1391.4	1521.9	1811.1	2325.1	3105.0	4370.2	5058.9	5611.2	*5574.2*	4217.7
62.5°	889.2	926.2	1048.4	1319.3	1830.4	2652.9	4183.6	5217.8	6063.6	*6050.5*	4566.6
65°	511.1	538.9	623.9	832.9	1262.8	2085.3	3740.1	5156.7	6342.0	*6334.5*	4697.1
66°	*417.5*	*435.0*	*500.1*	*651.0*	*1042.0*	*1831.2*	*3482.3*	*5027.8*	*6369.6*	*6369.9*	*4682.1*
67.5°	333.9	341.7	370.9	466.0	768.9	1451.4	3021.6	4743.5	6335.3	*6344.7*	4585.4
70°	276.3	280.3	289.4	312.5	419.7	875.3	2144.7	4004.6	5991.0	*5998.2*	4207.8
72.5°	247.9	250.3	253.8	257.0	296.1	489.1	1309.9	3203.6	5252.7	*5262.0*	3632.4
75°	224.6	225.9	225.4	225.6	248.4	311.7	676.9	2391.8	4247.1	*4228.4*	2782.6
77.5°	197.2	198.6	195.9	196.4	219.8	239.6	336.9	1674.4	2866.2	*2733.8*	1567.8
80°	166.7	167.8	166.7	168.6	191.3	180.9	195.9	942.0	1267.3	*1198.7*	557.4
82.5°	126.0	130.5	133.7	141.2	157.6	128.6	131.0	366.9	385.9	*367.4*	171.0
85°	55.2	67.3	100.8	108.0	118.5	77.2	86.0	149.5	157.0	*152.2*	62.2
87.5°	14.5	15.8	49.8	62.7	65.7	34.8	44.8	68.1	71.8	*68.1*	20.6
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: P317586
CATALOG NUMBER: GLEON-SA2A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9
2.5°	728.9	715.8	692.2	671.3	655.5	644.8	634.1	628.7	625.5	622.3	622.8
5°	752.3	725.7	685.3	656.6	640.5	630.3	625.0	622.8	621.5	618.3	618.3
7.5°	787.4	749.8	694.1	664.6	652.0	644.3	641.0	640.0	638.4	634.6	635.1
10°	831.6	779.1	712.6	683.9	672.4	663.8	659.3	657.7	654.7	650.4	651.0
12.5°	883.6	815.2	737.0	707.0	693.0	681.5	674.0	669.4	664.4	658.7	659.0
15°	940.4	854.6	763.2	727.6	708.6	692.5	680.4	672.7	664.6	657.7	657.4
17.5°	998.0	892.7	783.3	738.9	713.1	692.0	675.6	663.5	653.6	645.1	644.3
20°	1060.2	927.0	794.6	737.8	704.6	679.4	657.7	642.6	631.7	623.1	621.7
22.5°	1123.4	959.1	796.5	726.8	685.5	654.7	631.9	615.3	604.1	595.2	592.0
25°	1181.3	984.1	788.7	705.6	659.0	625.8	603.5	586.6	577.5	567.1	563.9
27.5°	1234.1	1001.5	773.2	678.6	629.2	596.6	575.6	561.2	551.3	543.2	540.5
30°	1281.5	1010.9	747.7	646.4	598.7	568.9	551.3	541.3	532.8	522.6	520.7
32.5°	1326.6	1010.9	715.0	611.3	568.4	544.6	534.1	527.9	518.3	508.4	505.7
35°	1371.6	1004.7	676.4	574.6	540.5	527.1	526.6	519.4	504.6	491.2	487.7
37.5°	1419.0	992.1	633.0	540.3	517.8	519.4	523.9	507.8	486.9	467.9	462.8
40°	1472.6	974.7	588.0	510.5	498.7	515.9	516.7	491.2	450.5	433.1	428.5
42.5°	1535.6	957.3	546.2	484.3	483.7	505.4	503.0	455.3	430.9	422.1	419.7
45°	1618.4	947.4	506.5	459.3	471.9	488.6	479.7	435.5	425.3	420.2	418.1
47.5°	1748.9	952.4	470.1	439.5	460.1	471.7	436.3	427.4	420.2	414.0	411.9
50°	1912.4	949.5	440.6	425.8	446.7	454.0	416.7	417.0	413.2	406.3	403.1
52.5°	2035.4	926.5	421.6	418.1	435.0	422.6	404.4	406.8	404.9	394.8	391.3
55°	2154.1	906.6	411.9	415.1	426.4	383.5	389.9	395.8	393.9	384.0	382.4
57.5°	2301.8	902.9	406.0	415.9	419.1	363.9	376.0	383.8	382.4	378.1	377.3
60°	2482.7	903.9	400.6	417.3	411.1	349.5	362.9	372.8	373.6	372.8	372.2
62.5°	2582.1	874.7	387.2	413.5	396.9	336.9	349.2	363.7	363.9	365.5	365.3
65°	2497.7	787.4	362.3	400.4	373.0	326.4	337.4	353.2	349.2	356.4	356.4
66°	*2415.7*	*737.0*	*350.0*	*391.8*	*362.9*	*322.4*	*333.7*	*347.9*	*342.8*	*352.7*	*352.7*
67.5°	2248.2	652.0	327.8	373.6	348.4	316.8	329.4	339.0	332.0	346.8	345.7
70°	1942.1	504.4	283.0	332.3	324.5	308.5	323.5	321.3	311.1	333.7	329.4
72.5°	1637.4	383.2	227.3	278.2	288.4	298.0	315.2	298.8	285.9	301.8	292.4
75°	1270.6	288.1	179.6	216.3	243.6	281.7	305.2	272.8	254.3	252.7	247.6
77.5°	686.9	197.8	142.3	165.1	193.5	261.3	298.5	244.9	217.1	210.6	206.6
80°	272.0	128.6	103.4	125.2	135.3	231.8	282.5	212.5	179.0	172.6	166.4
82.5°	112.3	76.1	66.7	83.9	88.2	198.3	253.5	174.2	138.3	191.3	203.1
85°	48.2	41.8	39.7	43.4	49.8	139.1	201.8	132.9	149.3	133.2	105.9
87.5°	14.5	17.7	16.9	16.6	18.2	33.2	107.5	74.0	109.6	41.5	31.1
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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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

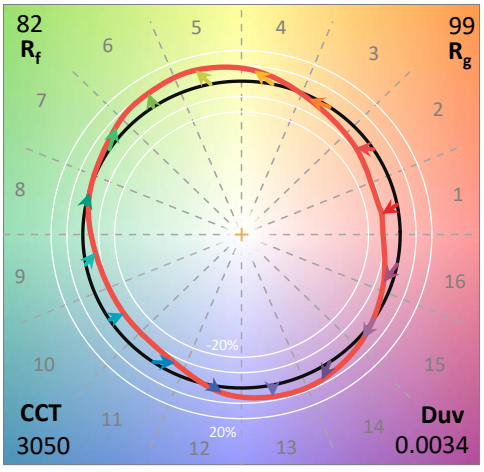
Test Information

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

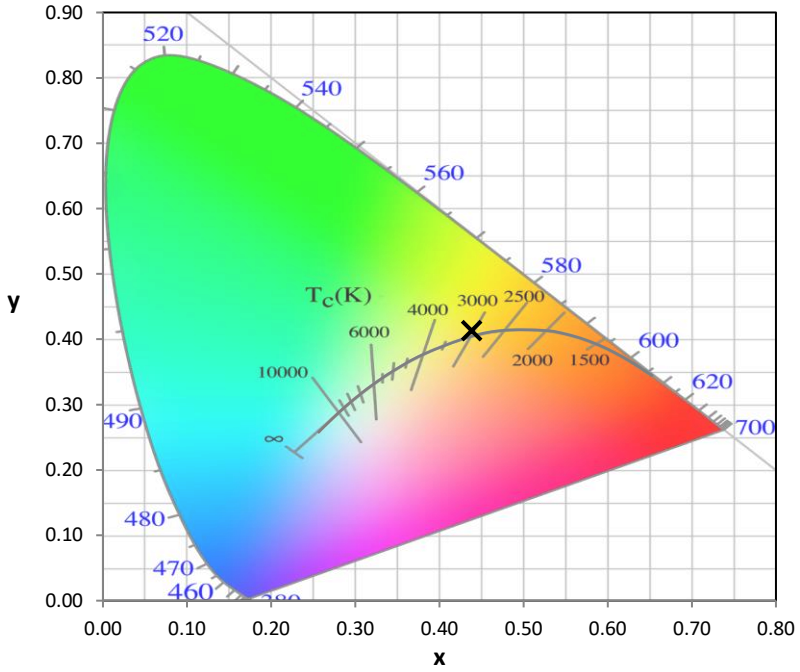
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

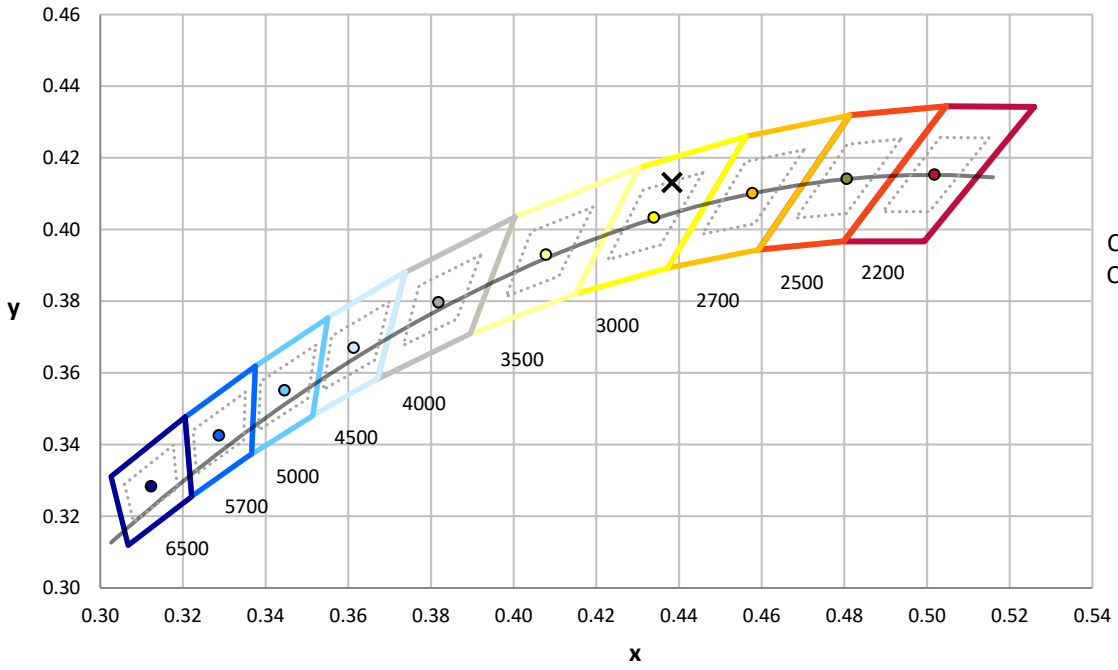
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

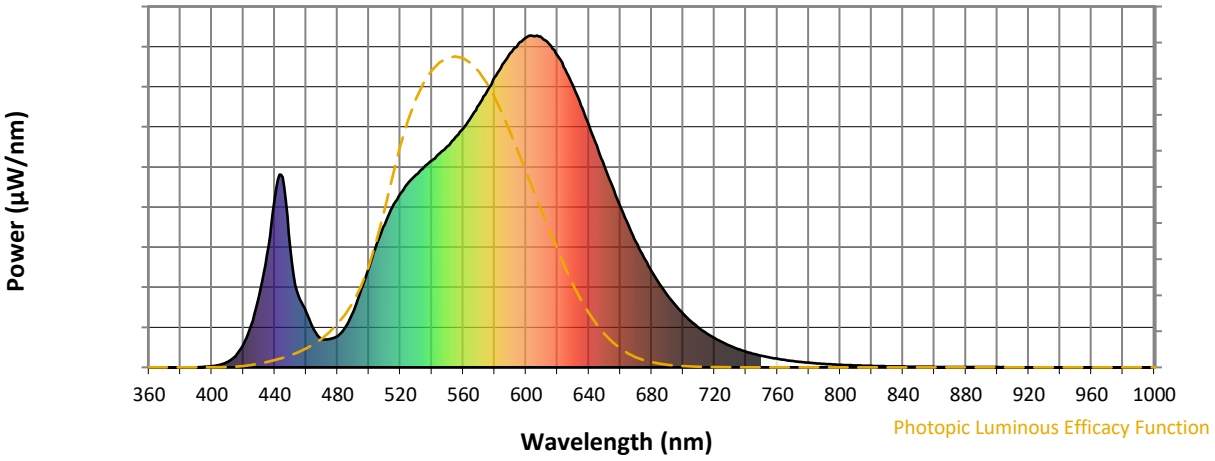


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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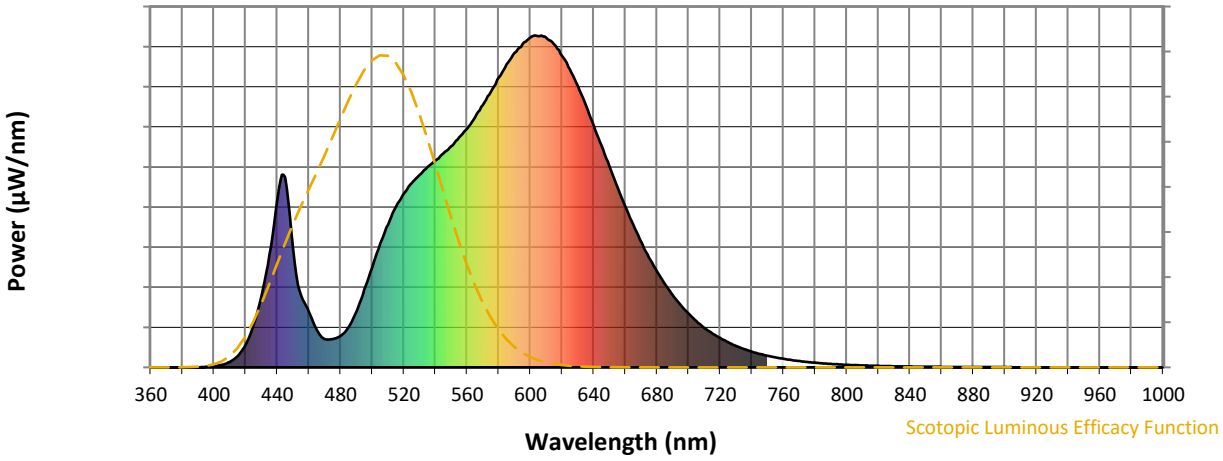
Scotopic Flux vs. Wavelength



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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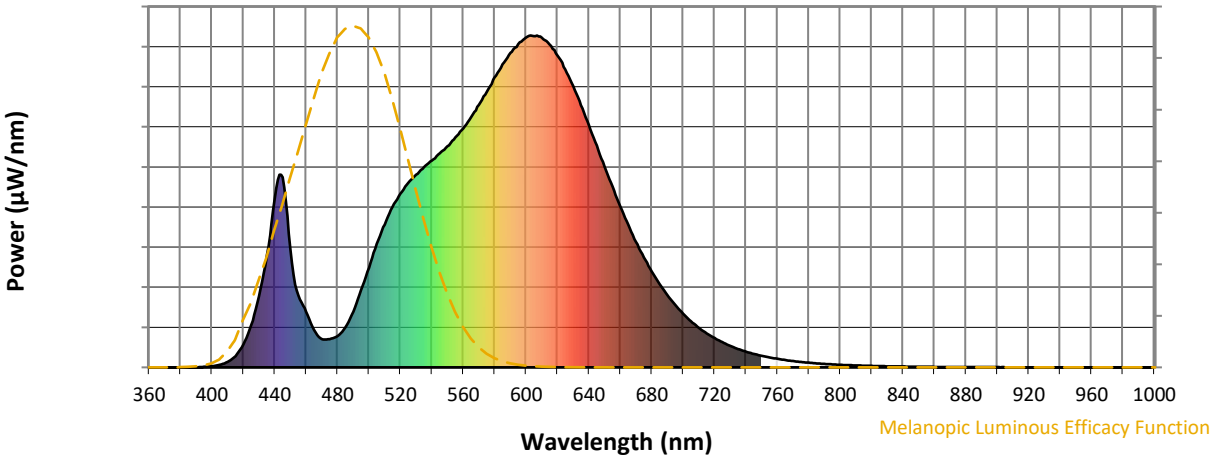
Melanopic Flux vs. Wavelength



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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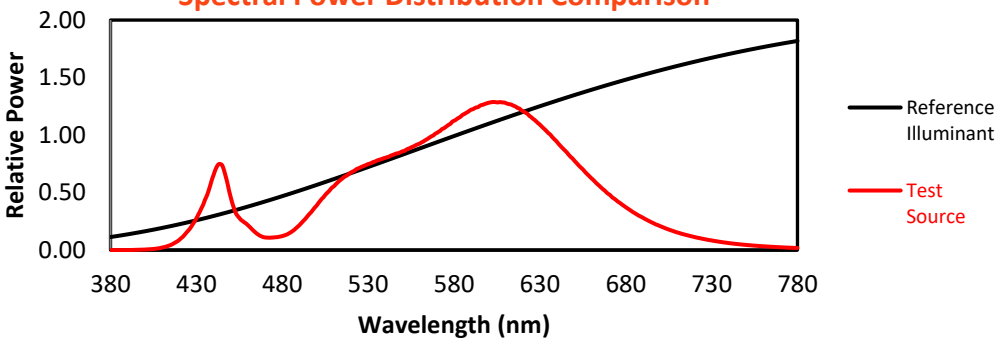
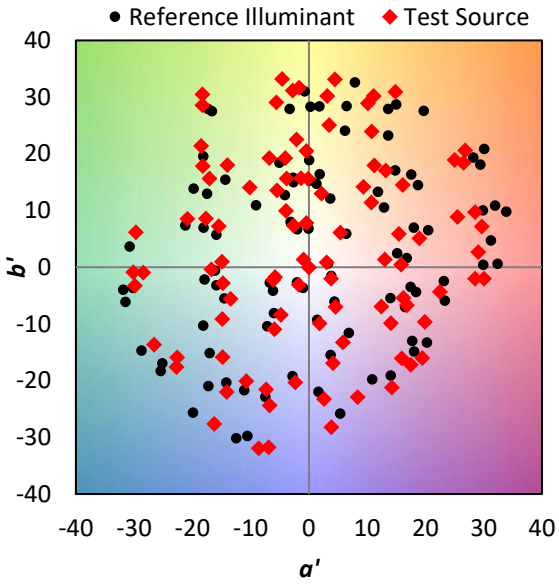
Summary

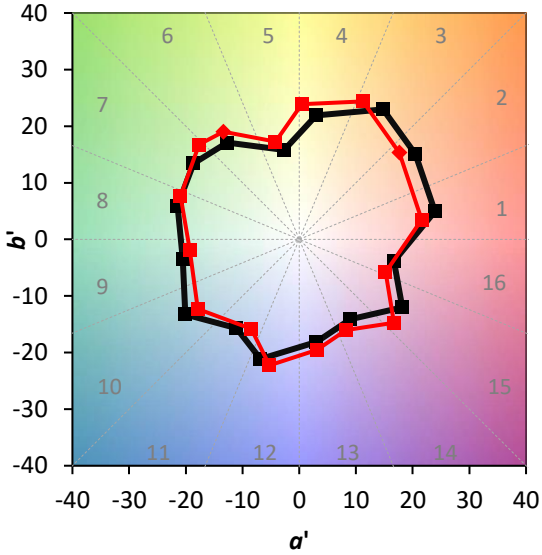
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

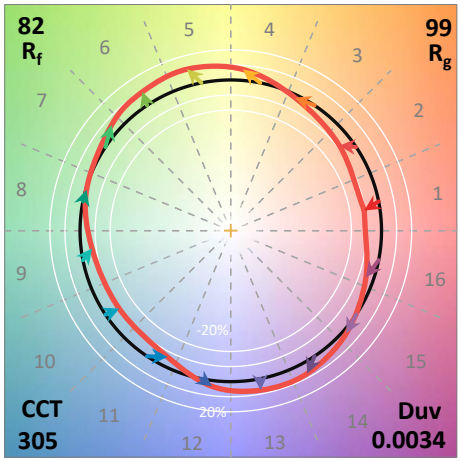
Spectral Power Distribution Comparison

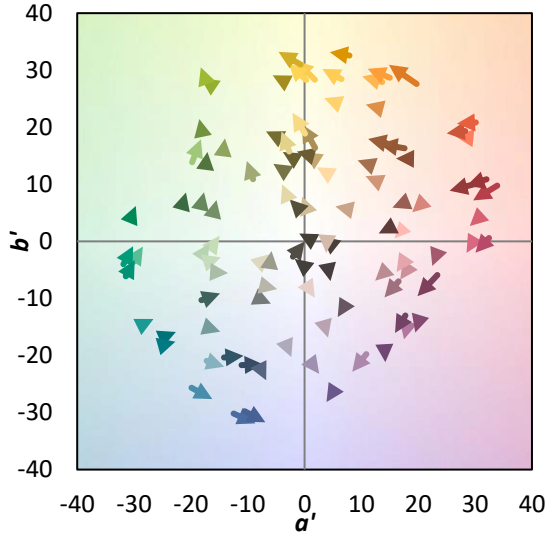


Color Vector Graphics









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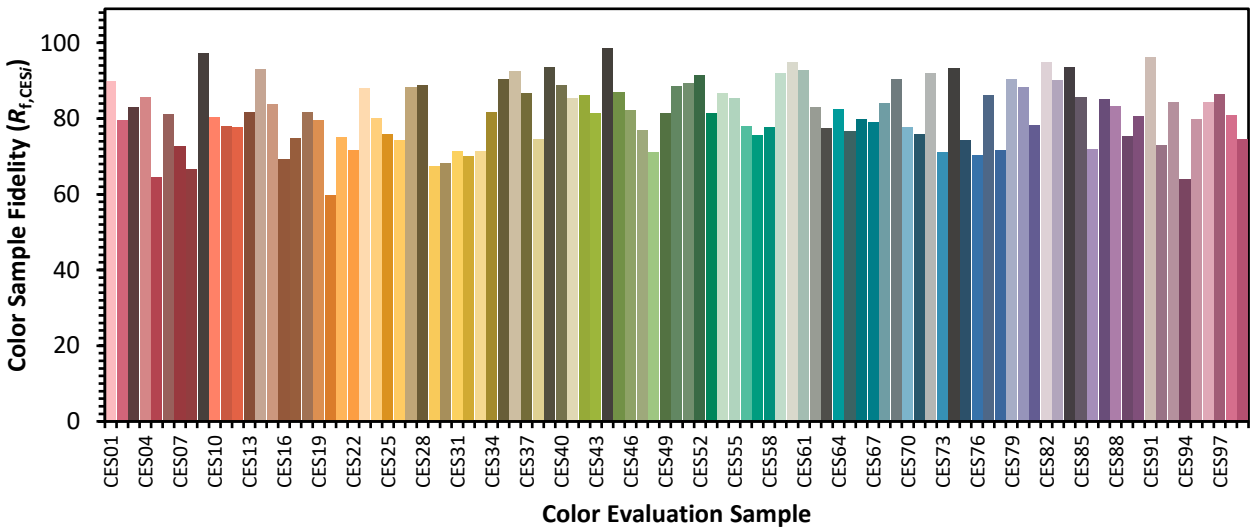
Individual Sample Fidelity Index ($R_{f,i}$)

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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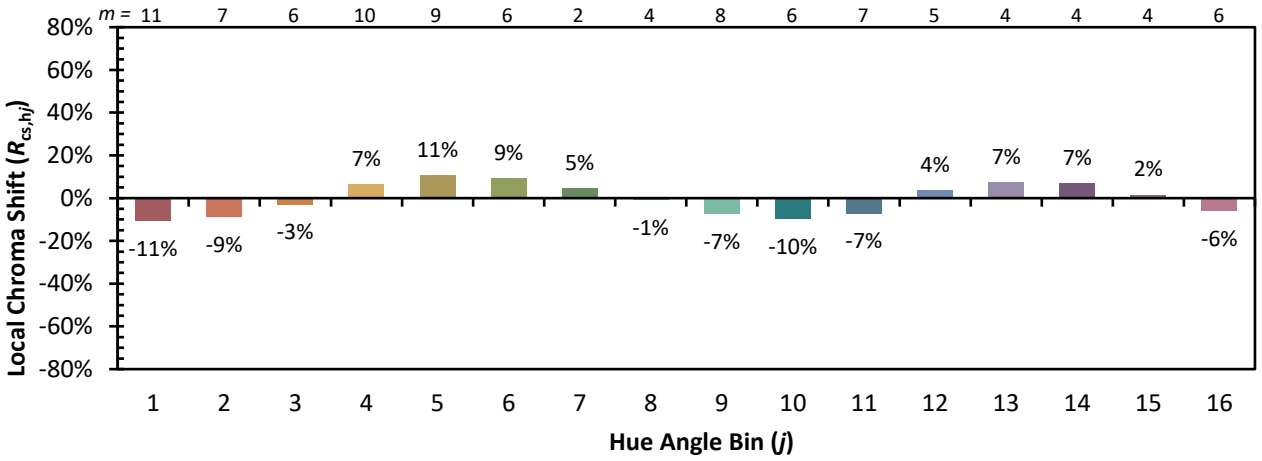
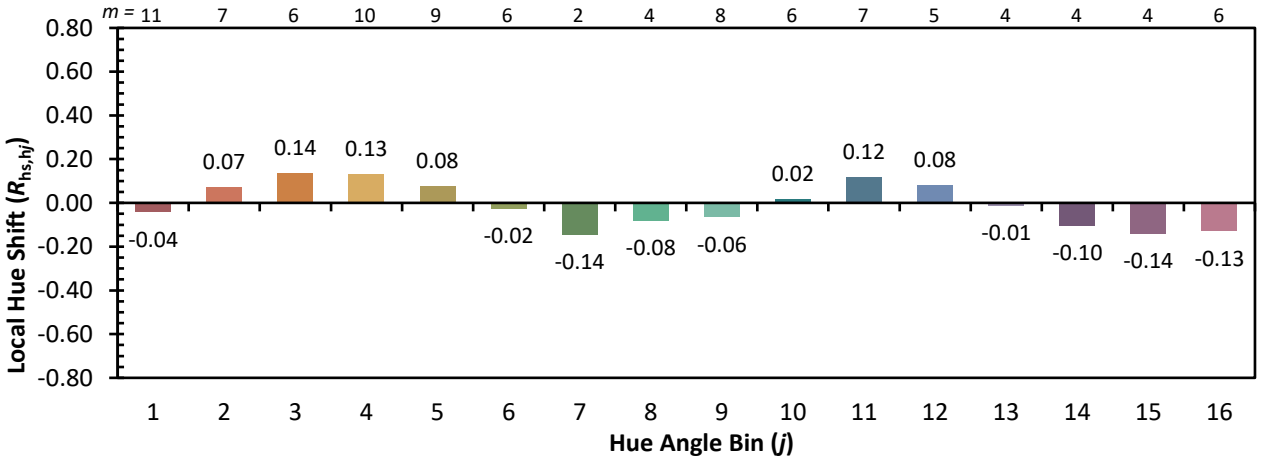
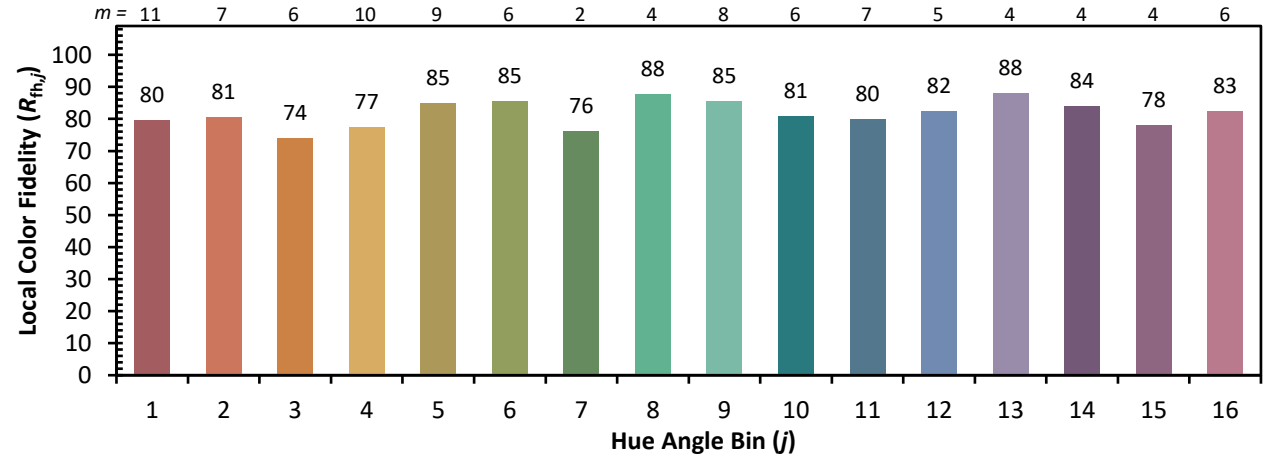
Color Rendition by Hue-Angle Bin







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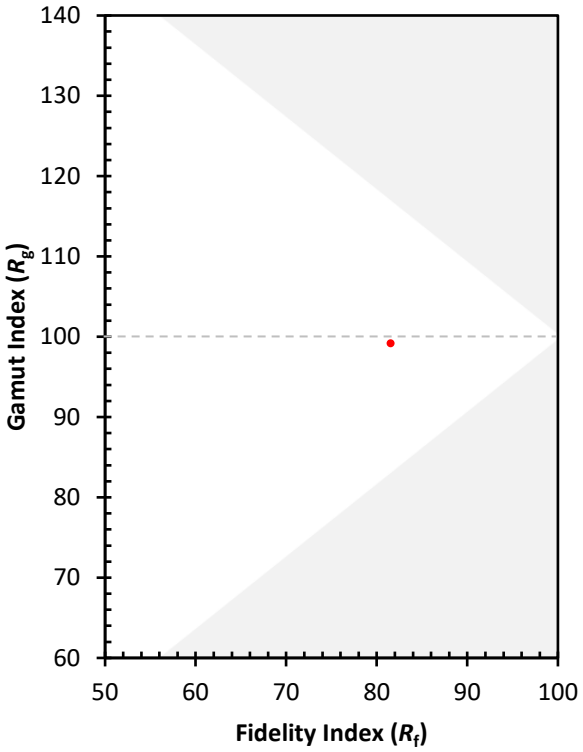
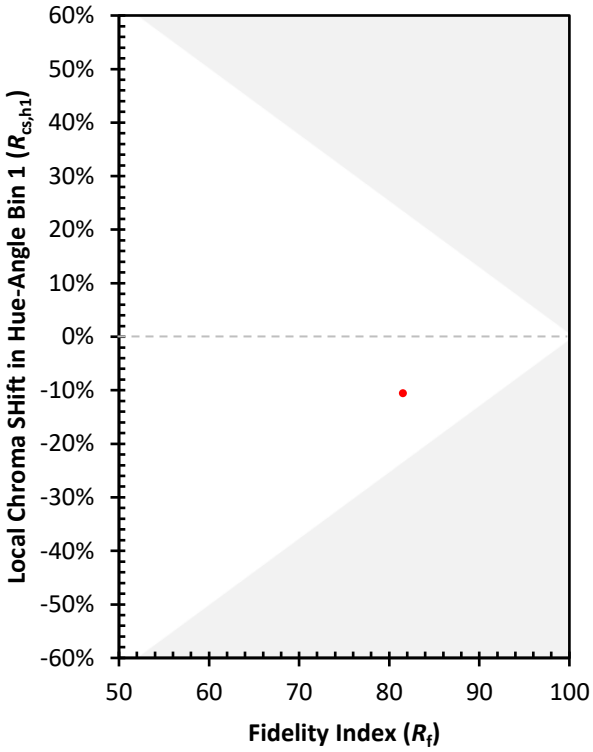
Measure Comparisons





(END OF REPORT)