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: P322715

Luminaire Tested: **GLEON-SA1B-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:	P322715
	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-SA1B-830-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3376 lumens
Efficiency:	N/A
Efficacy:	76.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - 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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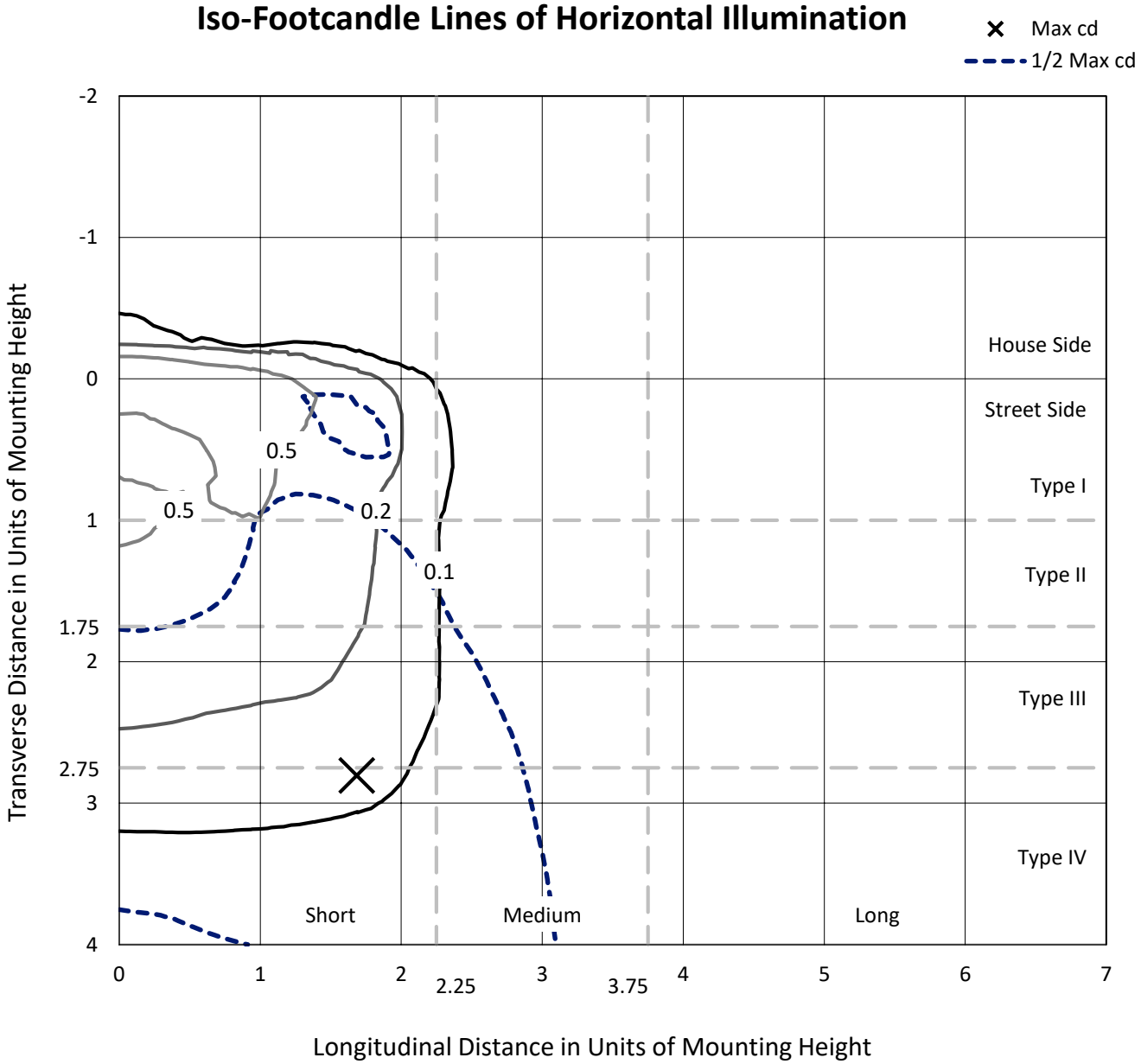
Scaled Data Report

REPORT NUMBER: P322715
CATALOG NUMBER: GLEON-SA1B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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REPORT NUMBER: P322715
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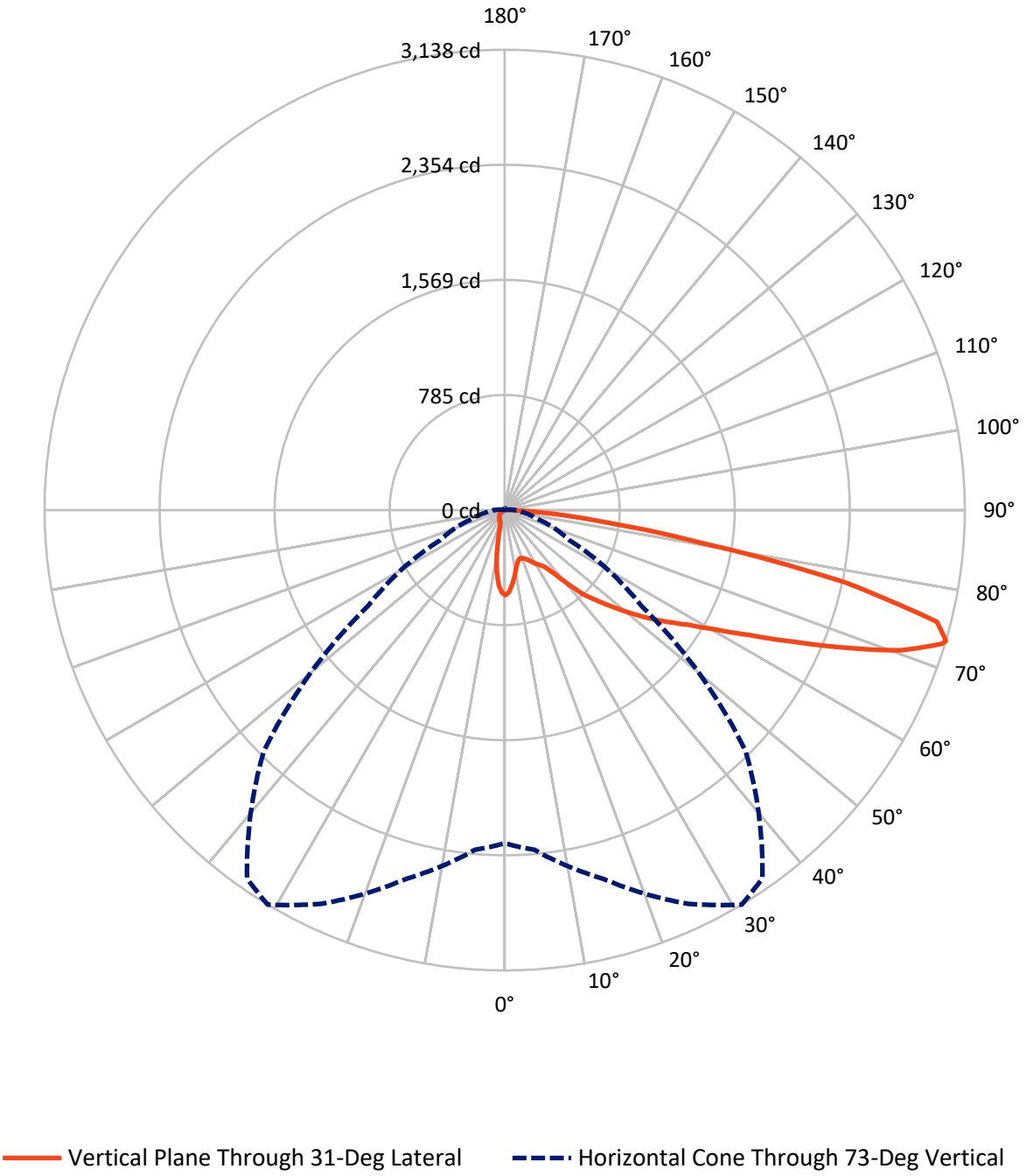
Luminous Intensity Polar Plot



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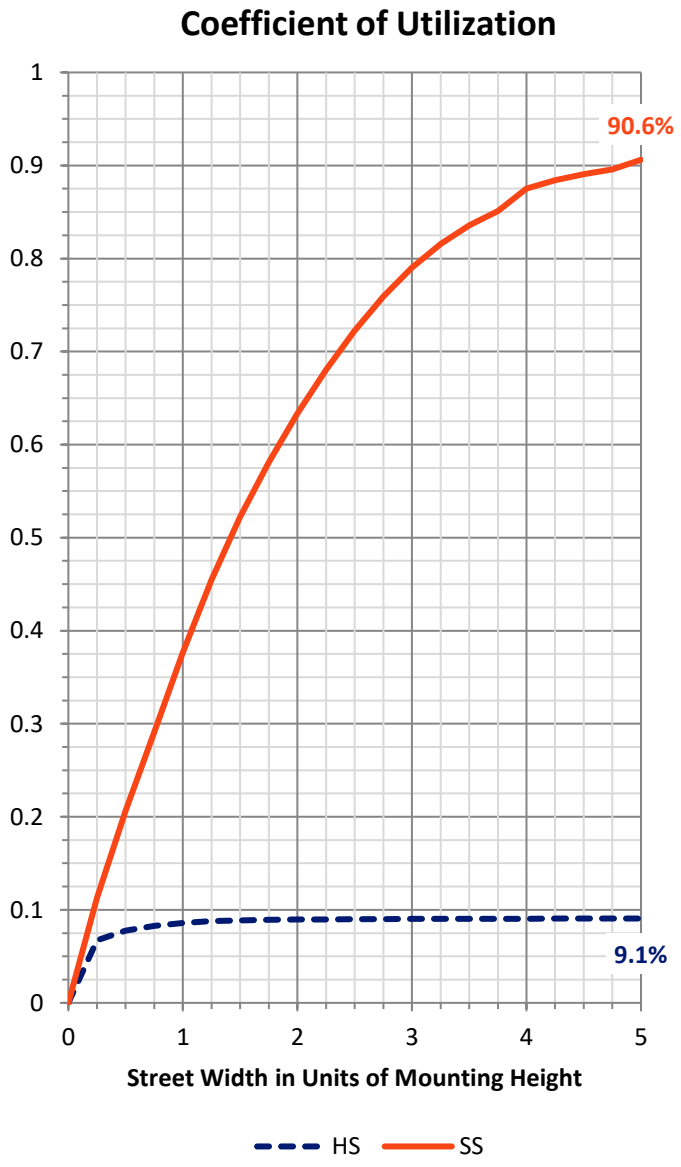
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.7	0.0	307.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3068.3	0.0	3068.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	3376.0	0.0	3376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.4
10°-20°	104.6	3.1
20°-30°	156.7	4.6
30°-40°	249.3	7.4
40°-50°	445.1	13.2
50°-60°	690.7	20.5
60°-70°	918.2	27.2
70°-80°	690.7	20.5
80°-90°	72.6	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°	3376.0	100.0
0°-180°	3376.0	100.0



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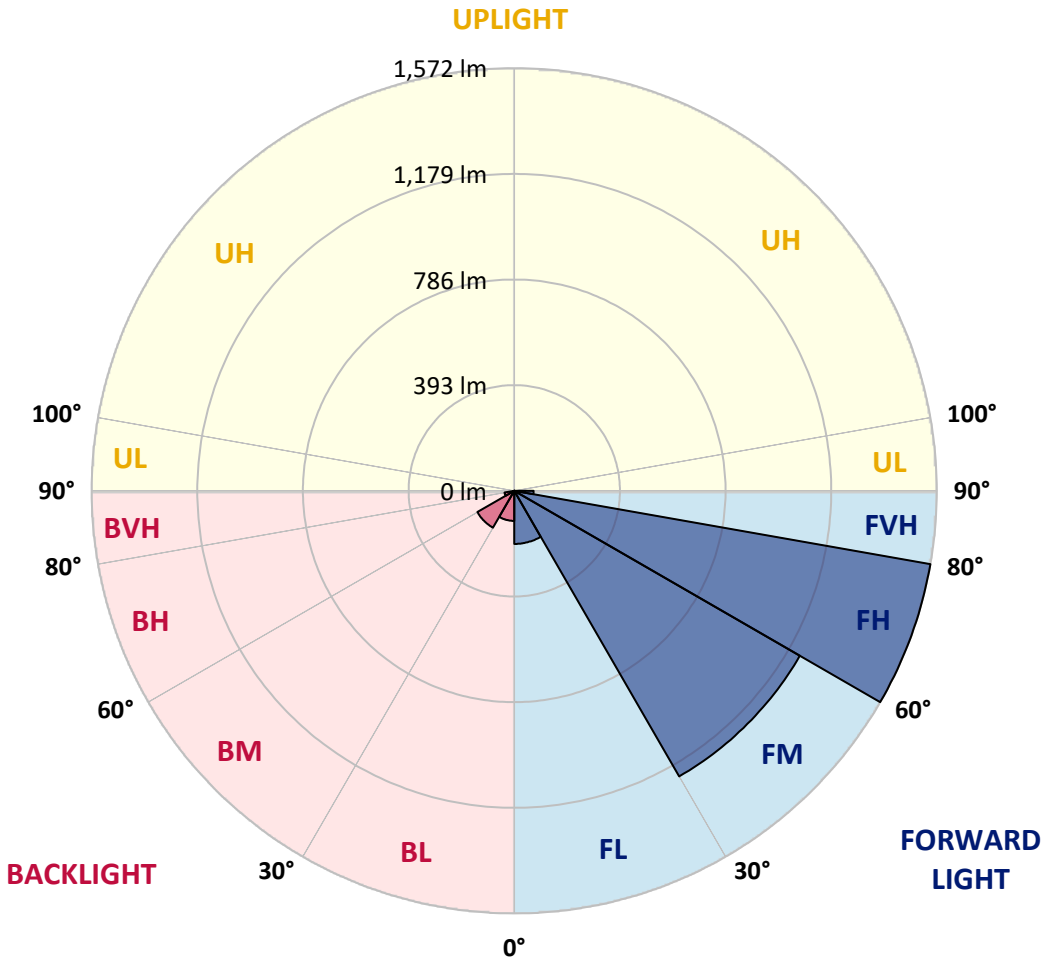
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	197.5	5.9			
FM	(30°-60°)	1226.7	36.3			
FH	(60°-80°)	1572.1	46.6			G1/1800
FVH	(80°-90°)	72.0	2.1			G1/100
BL	(0°-30°)	111.9	3.3	B1/500		
BM	(30°-60°)	158.4	4.7	B0/220		
BH	(60°-80°)	36.8	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G1
Type IV Short



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Scaled Data Report

REPORT NUMBER: P322715
CATALOG NUMBER: GLEON-SA1B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	580.8	580.8	580.8	580.8	*580.8*	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	550.5	552.8	555.2	555.7	*559.9*	560.0	566.0	570.4	574.9	579.2	580.7
5°	494.0	497.8	502.2	506.7	*515.4*	518.9	533.4	548.3	562.5	576.1	582.7
7.5°	433.7	437.9	444.2	455.3	*465.0*	471.8	494.8	521.2	547.6	572.6	587.0
10°	378.6	382.6	389.2	400.9	*416.0*	425.2	456.1	492.8	531.6	569.4	593.4
12.5°	343.6	345.8	349.4	362.0	*375.5*	385.9	422.3	467.7	518.4	569.3	603.8
15°	337.2	337.8	334.9	340.5	*351.1*	361.1	398.0	447.4	508.3	571.9	617.4
17.5°	347.4	347.1	337.2	336.5	*344.9*	353.2	386.1	433.3	501.2	578.0	634.9
20°	362.9	361.8	344.6	341.5	*350.4*	358.2	385.2	428.0	498.6	588.3	656.2
22.5°	383.6	381.6	354.7	351.4	*361.0*	369.1	395.5	433.2	500.9	602.0	681.0
25°	409.2	406.2	372.0	368.4	*378.1*	386.2	413.8	447.9	507.8	618.7	712.3
27.5°	438.1	433.8	399.8	390.4	*401.4*	409.9	438.3	470.3	518.7	636.4	750.8
30°	465.4	459.8	429.0	413.5	*427.0*	436.5	464.7	497.1	536.2	663.6	803.5
32.5°	492.8	486.5	455.1	436.6	*448.9*	459.1	492.0	533.9	569.1	705.2	873.6
35°	555.9	549.3	510.8	480.2	*480.1*	485.9	530.1	584.3	612.6	763.2	957.2
37.5°	662.1	658.3	621.7	563.7	*548.1*	541.7	582.2	644.5	675.0	843.0	1051.5
40°	778.4	775.1	734.0	681.5	*657.8*	642.0	656.8	728.2	763.2	940.5	1147.8
42.5°	909.8	894.1	820.7	805.0	*783.9*	771.8	758.4	831.5	871.6	1046.6	1243.3
45°	1029.0	1002.6	907.5	883.7	*878.9*	881.8	889.3	970.2	993.5	1172.6	1338.5
47.5°	1100.1	1079.3	1006.2	983.4	*982.1*	1001.8	1057.9	1127.0	1114.9	1282.5	1422.2
50°	1167.6	1148.8	1088.2	1093.8	*1099.9*	1126.7	1249.4	1288.2	1225.8	1382.1	1499.0
52.5°	1222.3	1193.6	1161.9	1193.4	*1223.5*	1266.6	1447.0	1433.0	1304.4	1461.4	1564.8
55°	1253.9	1240.8	1256.2	1287.9	*1344.4*	1414.5	1633.5	1553.4	1361.9	1533.7	1608.6
57.5°	1369.5	1343.9	1374.5	1401.9	*1475.6*	1573.5	1793.3	1643.1	1403.4	1578.5	1618.6
60°	1509.4	1488.8	1506.8	1552.4	*1651.8*	1767.0	1942.6	1716.3	1425.0	1607.2	1592.5
62.5°	1732.1	1704.9	1693.6	1744.7	*1876.5*	2002.2	2055.9	1767.0	1420.2	1594.5	1503.0
65°	2030.5	2002.2	1952.0	1998.3	*2166.0*	2254.7	2182.6	1777.7	1387.2	1491.6	1276.7
67.5°	2336.1	2315.6	2272.7	2350.6	*2502.0*	2530.6	2316.6	1751.6	1280.8	1209.4	902.0
70°	2538.0	2529.2	2557.2	2729.6	*2864.6*	2856.3	2439.5	1611.4	998.3	743.7	446.2
72.5°	2392.4	2434.4	2640.6	2953.3	*3118.2*	3050.8	2376.4	1237.4	570.6	286.1	129.0
73°	*2271.8*	*2325.5*	*2603.1*	*2961.7*	*3138.2*	*3064.3*	*2323.4*	*1135.8*	*486.4*	*225.8*	*97.8*
75°	1580.5	1646.4	2155.1	2758.4	*3044.7*	2919.6	1936.7	695.2	225.3	100.1	39.5
77.5°	767.4	816.1	1186.6	1993.0	*2367.8*	2281.1	1205.6	259.0	101.8	62.6	18.2
80°	286.5	318.5	515.1	1014.3	*1368.4*	1404.2	530.3	98.0	67.7	50.4	9.3
82.5°	75.0	83.6	190.0	452.3	*701.3*	734.0	167.2	49.4	49.6	41.5	5.6
85°	24.0	27.4	59.3	203.0	*330.4*	290.1	43.6	24.0	36.0	30.9	3.1
87.5°	3.0	3.8	18.8	47.7	*72.9*	40.5	6.8	7.1	15.4	17.2	1.8
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: P322715
CATALOG NUMBER: GLEON-SA1B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	582.2	581.3	581.5	577.2	574.4	568.8	563.0	560.4	557.6	556.4	557.6
5°	585.1	583.7	579.4	566.1	552.1	533.9	516.9	504.0	487.8	483.4	488.0
7.5°	589.8	586.8	574.2	547.3	516.1	481.4	442.4	414.0	390.7	375.7	381.1
10°	596.5	590.9	565.6	519.9	464.1	402.6	347.3	304.1	273.6	261.0	260.5
12.5°	607.9	597.4	555.1	484.2	400.4	318.5	246.0	199.2	174.5	158.4	158.1
15°	620.5	605.0	541.7	441.4	326.4	228.1	158.4	122.9	106.9	101.8	101.1
17.5°	635.9	613.7	524.3	388.7	249.0	151.2	103.4	93.2	92.5	92.0	92.0
20°	655.2	624.1	502.0	328.4	176.6	100.9	87.9	88.5	88.9	88.2	88.4
22.5°	677.7	634.7	475.4	263.7	119.4	84.4	84.1	84.9	85.2	84.9	85.1
25°	703.8	646.9	443.1	195.8	86.2	80.1	80.9	82.1	82.9	82.9	82.9
27.5°	736.1	661.8	404.1	136.6	74.5	75.7	78.0	80.1	81.3	81.6	81.6
30°	778.3	680.3	357.3	93.7	67.7	69.7	74.0	78.1	80.3	80.6	80.8
32.5°	831.5	701.1	303.1	69.2	62.0	63.4	68.1	75.0	79.1	79.8	79.8
35°	892.4	725.2	244.8	60.3	57.8	58.3	62.0	69.9	77.1	79.0	79.1
37.5°	959.2	749.0	186.2	56.3	54.4	54.4	57.0	63.8	72.4	78.0	78.6
40°	1021.4	763.4	130.5	53.2	51.2	51.2	53.5	58.5	66.6	75.0	76.8
42.5°	1078.9	768.4	90.9	50.2	48.2	48.7	50.7	54.7	60.8	69.2	70.9
45°	1138.1	767.5	66.2	46.8	45.3	46.8	48.2	51.2	55.7	60.5	60.8
47.5°	1182.7	760.6	52.5	43.4	42.5	44.4	45.8	47.7	50.2	49.9	49.9
50°	1224.5	743.7	42.3	39.0	39.6	42.0	42.6	43.3	43.4	40.3	40.0
52.5°	1256.2	717.5	33.9	34.2	36.8	39.2	38.5	37.5	35.8	32.0	31.4
55°	1266.8	666.9	26.6	28.2	32.7	35.7	33.2	31.1	27.9	24.8	24.1
57.5°	1247.6	601.7	21.6	22.0	27.6	30.1	27.3	24.8	21.3	18.7	18.2
60°	1207.0	529.1	17.8	16.5	21.3	23.5	21.6	19.2	16.0	14.0	13.9
62.5°	1126.3	451.8	14.7	12.9	16.2	18.0	16.9	15.0	12.4	11.1	10.9
65°	956.8	361.5	11.9	10.4	12.6	14.0	13.1	11.7	9.7	8.8	8.6
67.5°	667.9	244.3	9.7	8.6	9.9	11.1	10.2	9.6	7.8	7.6	7.8
70°	322.1	117.8	8.1	6.9	7.8	8.6	8.3	7.8	7.4	8.6	9.9
72.5°	92.3	39.5	6.4	5.8	6.3	6.8	7.1	6.9	8.1	10.4	12.1
73°	*71.0*	*31.9*	*6.1*	*5.5*	*5.9*	*6.6*	*6.9*	*6.8*	*8.3*	*10.6*	*12.1*
75°	30.4	15.4	4.6	4.5	5.0	5.8	6.1	6.1	8.3	10.7	11.6
77.5°	13.7	8.3	3.0	3.5	4.3	4.6	5.1	5.1	6.6	8.3	8.3
80°	7.8	4.5	2.3	2.6	3.1	3.1	3.1	2.8	3.0	3.3	3.6
82.5°	5.0	3.0	1.8	2.1	2.0	1.7	1.3	1.3	1.2	1.3	1.7
85°	2.8	1.7	1.7	1.3	0.8	0.7	0.8	0.7	0.2	0.0	0.2
87.5°	1.7	1.0	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

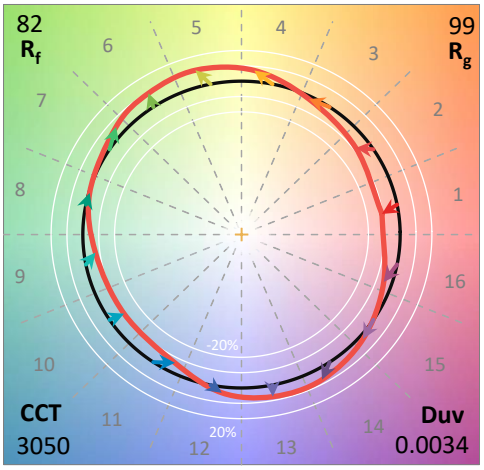
Test Information

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

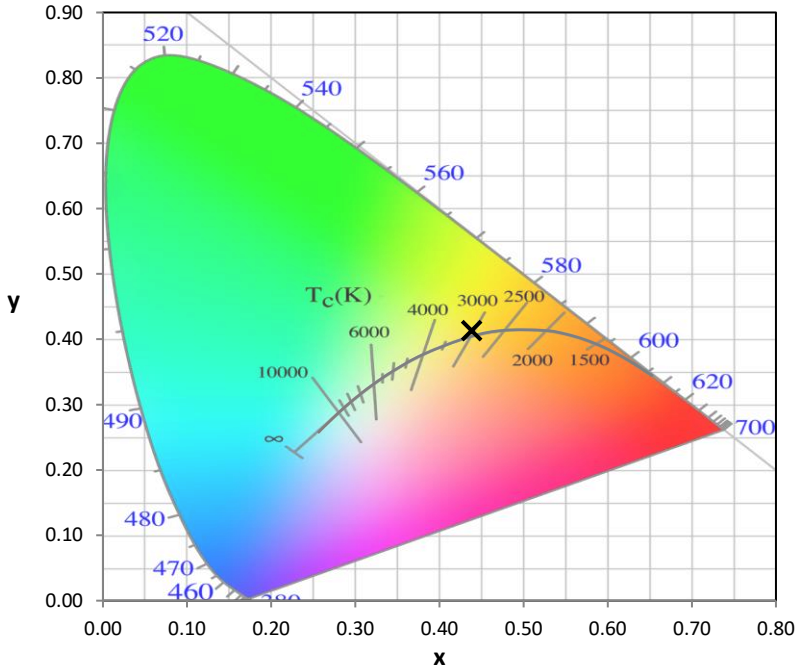
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

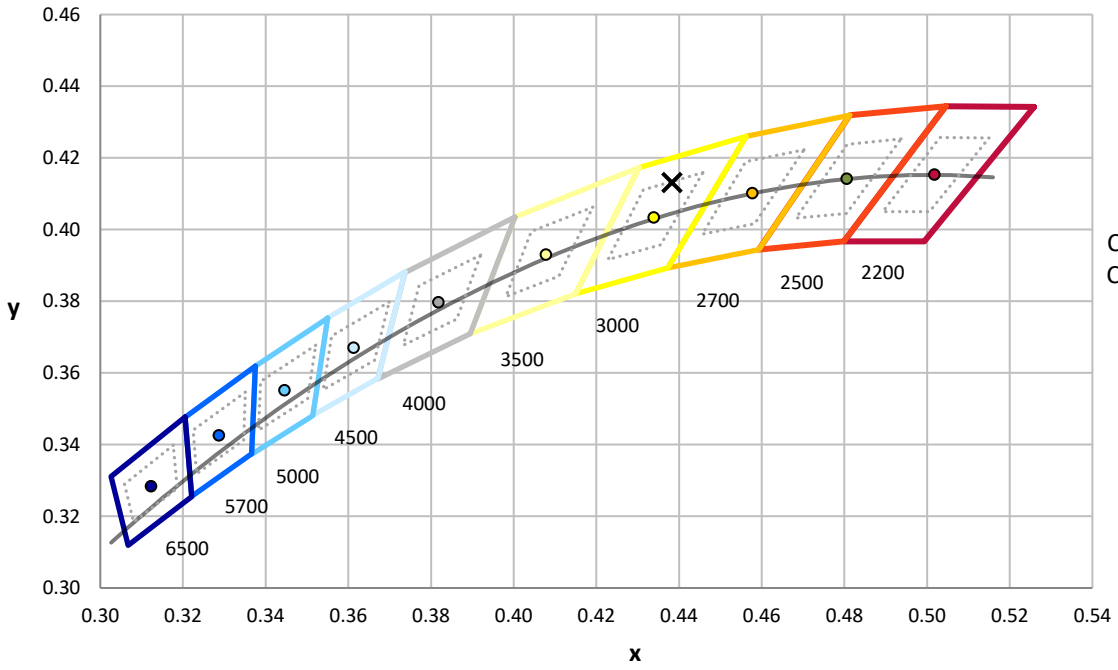
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

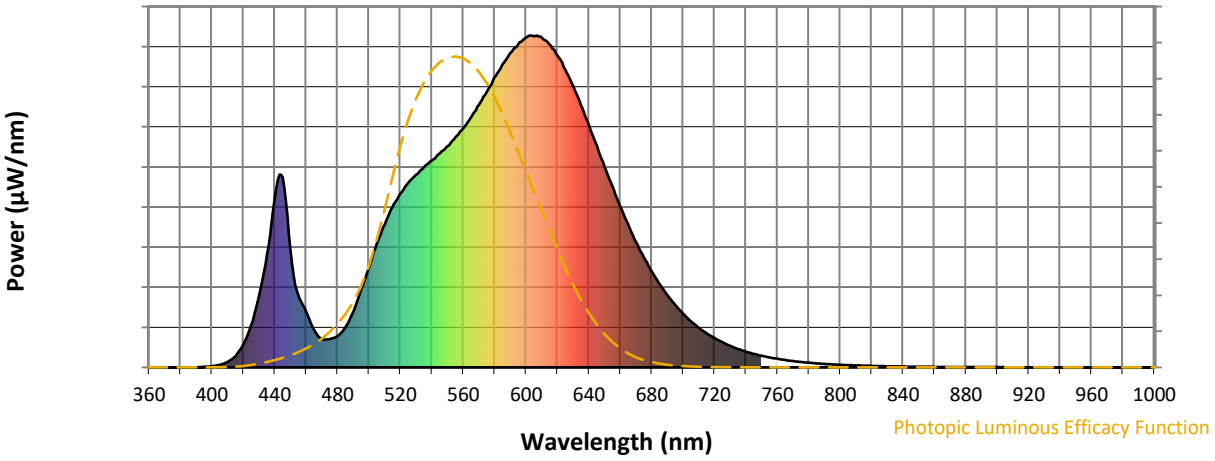


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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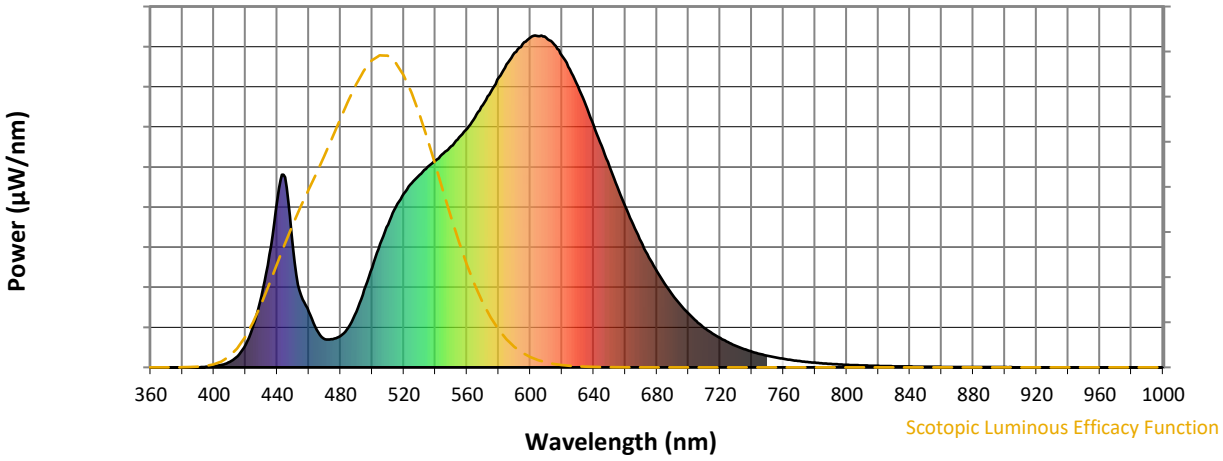
Scotopic Flux vs. Wavelength



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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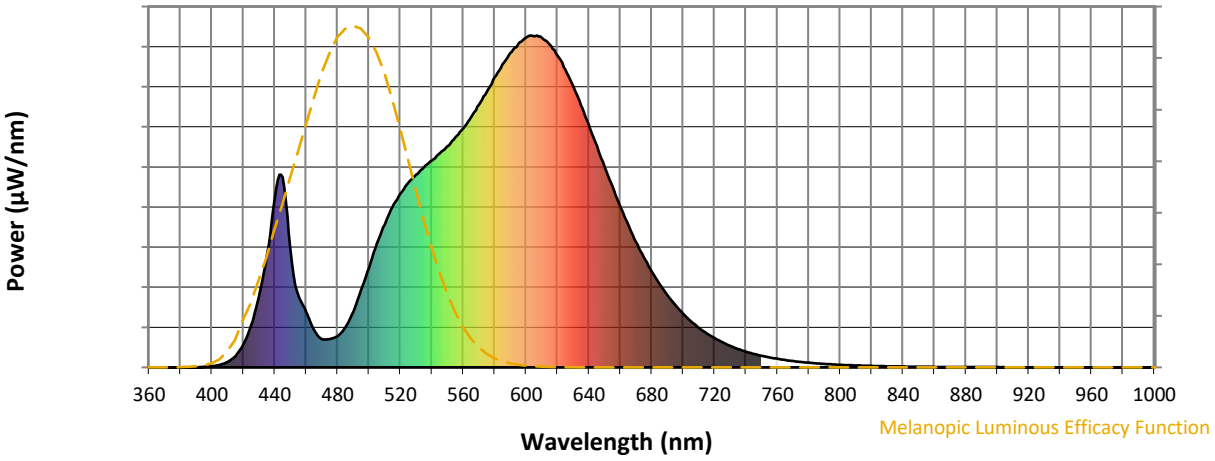
Melanopic Flux vs. Wavelength



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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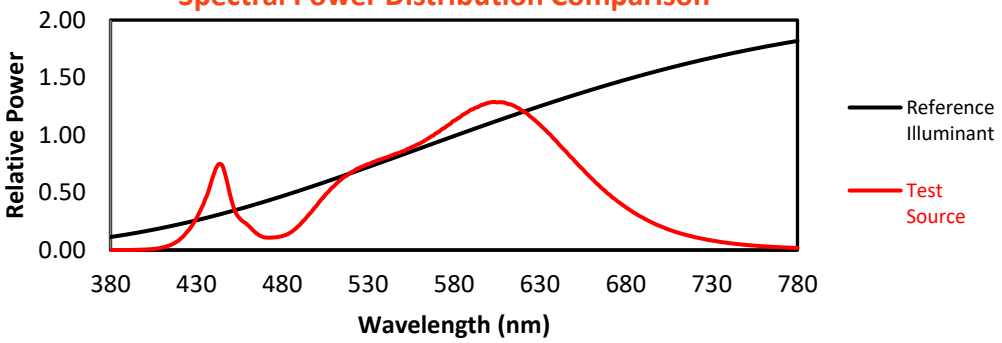
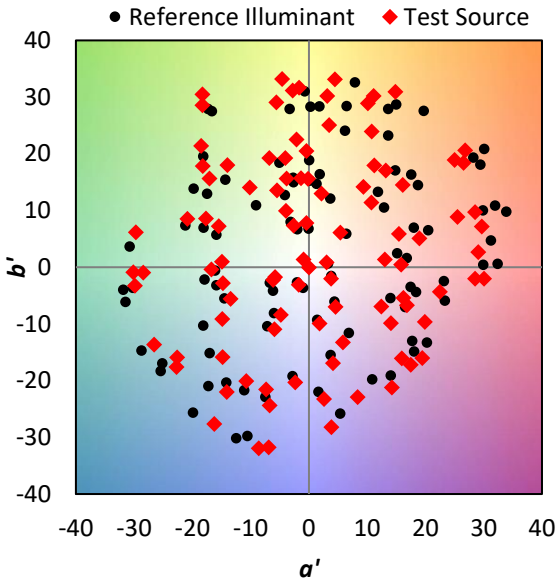
Summary

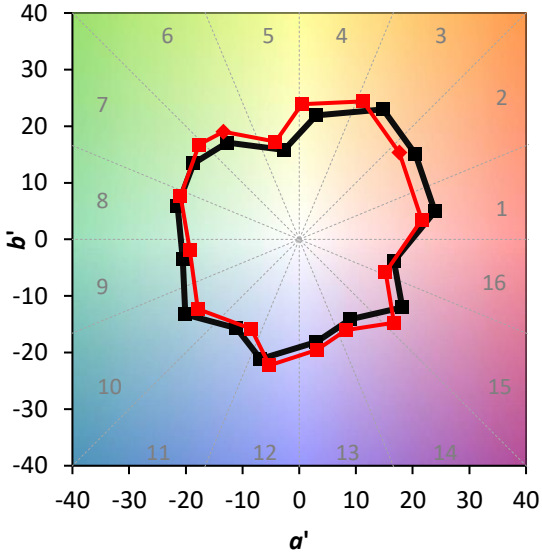
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

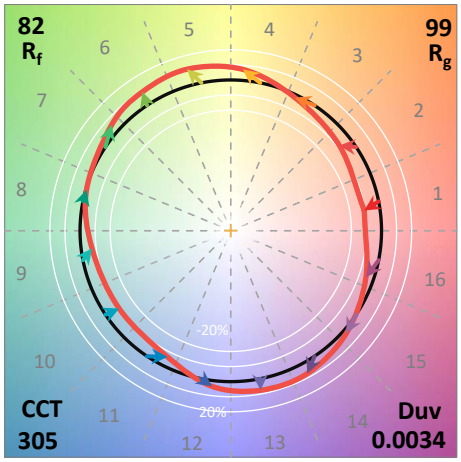
Spectral Power Distribution Comparison

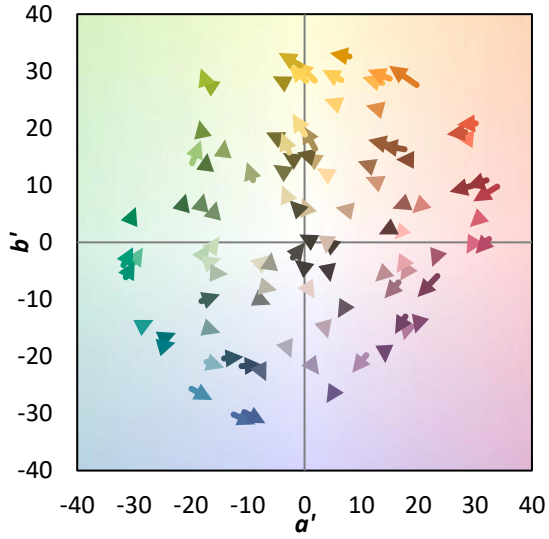


Color Vector Graphics









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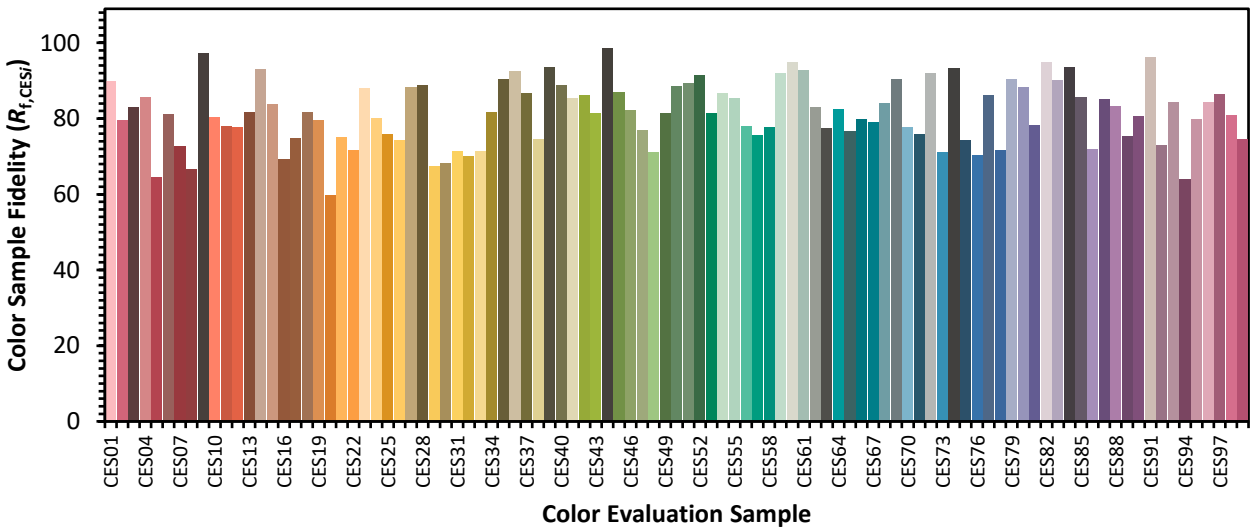
Individual Sample Fidelity Index ($R_{f,i}$)

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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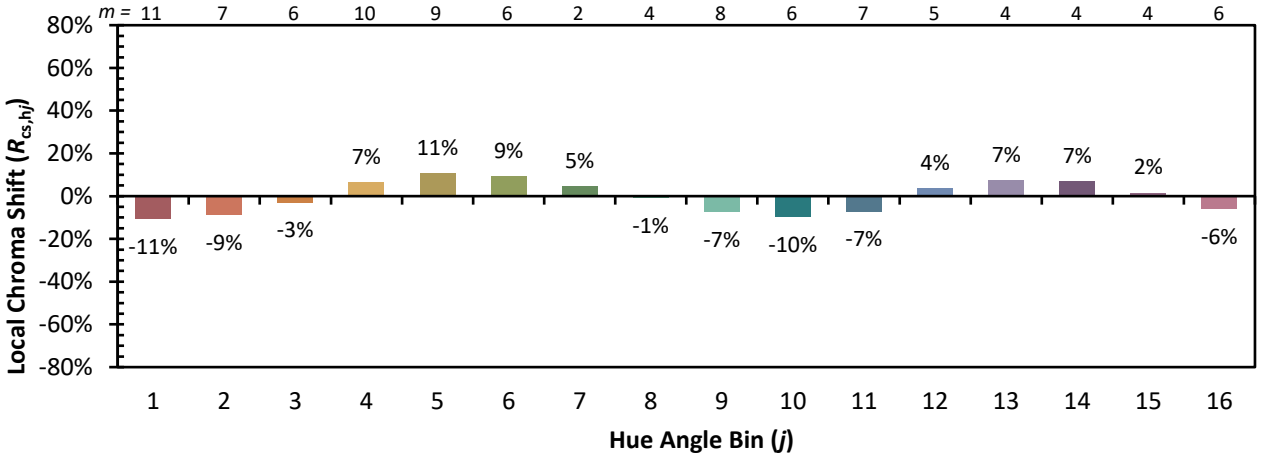
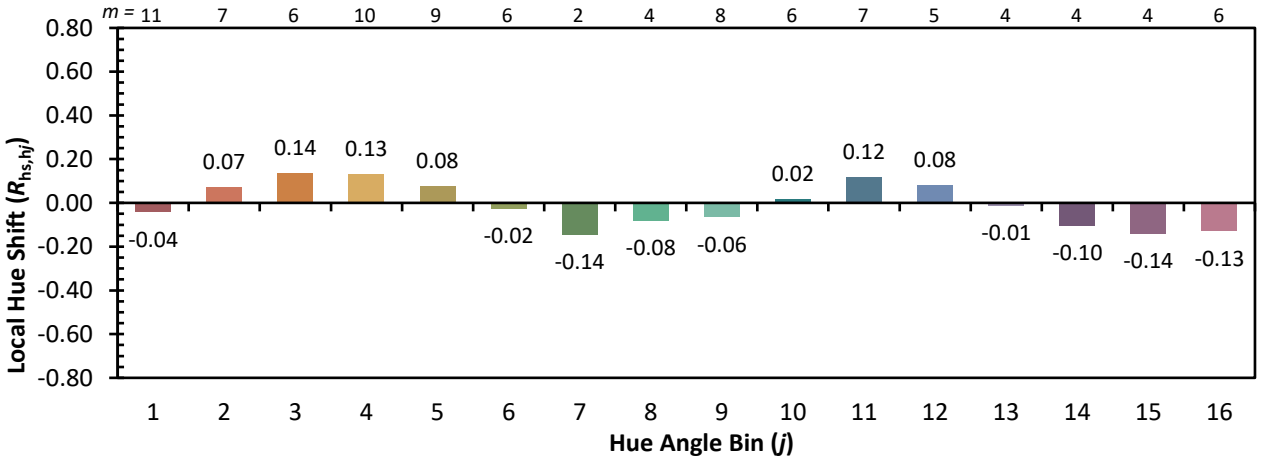
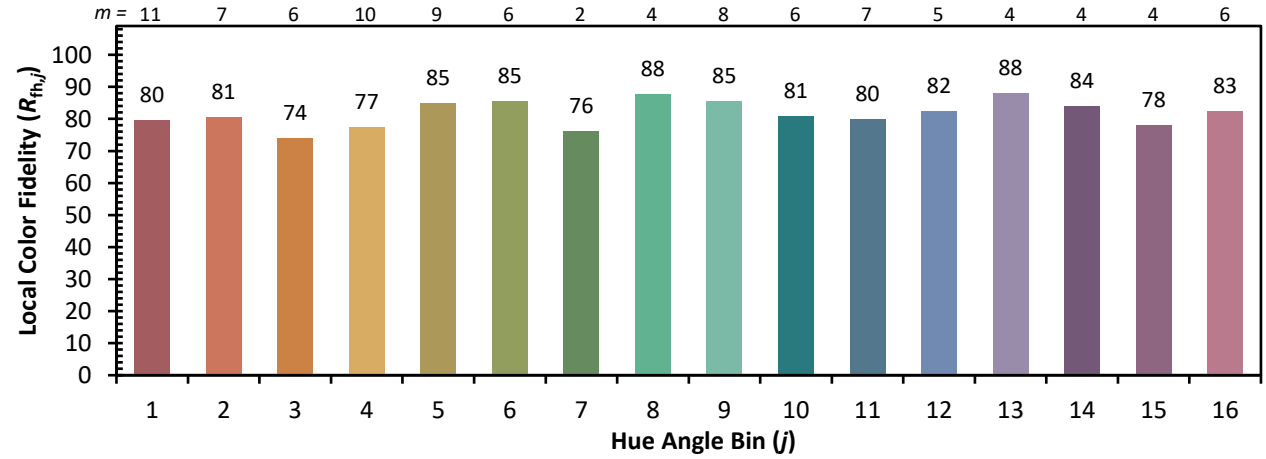
Color Rendition by Hue-Angle Bin







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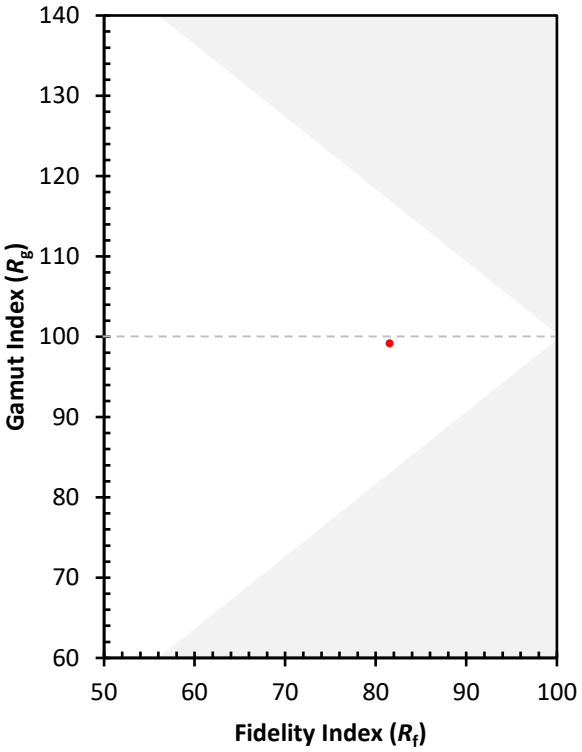
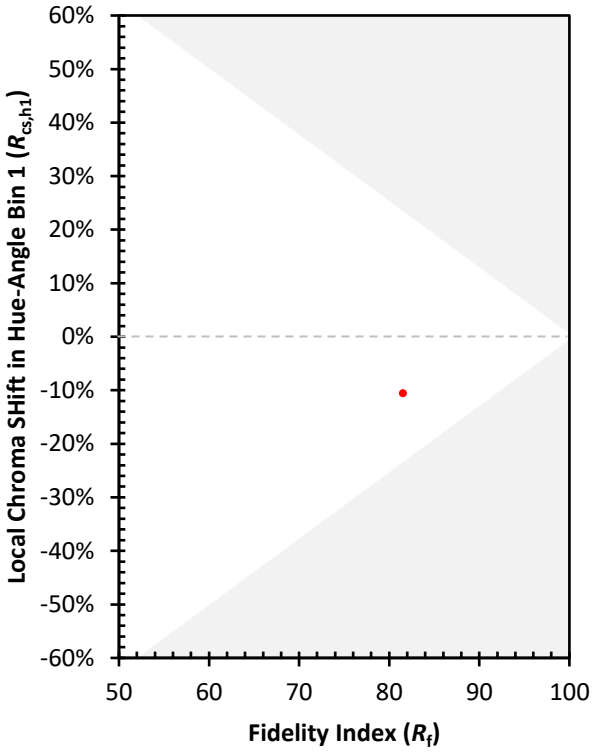
Measure Comparisons





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