Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639980

Luminaire Tested: GWS-SA5C-830-U-T2R-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P639980
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-T2R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19288.6 lumens
Efficiency:	N/A
Efficacy:	122.5 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):	157.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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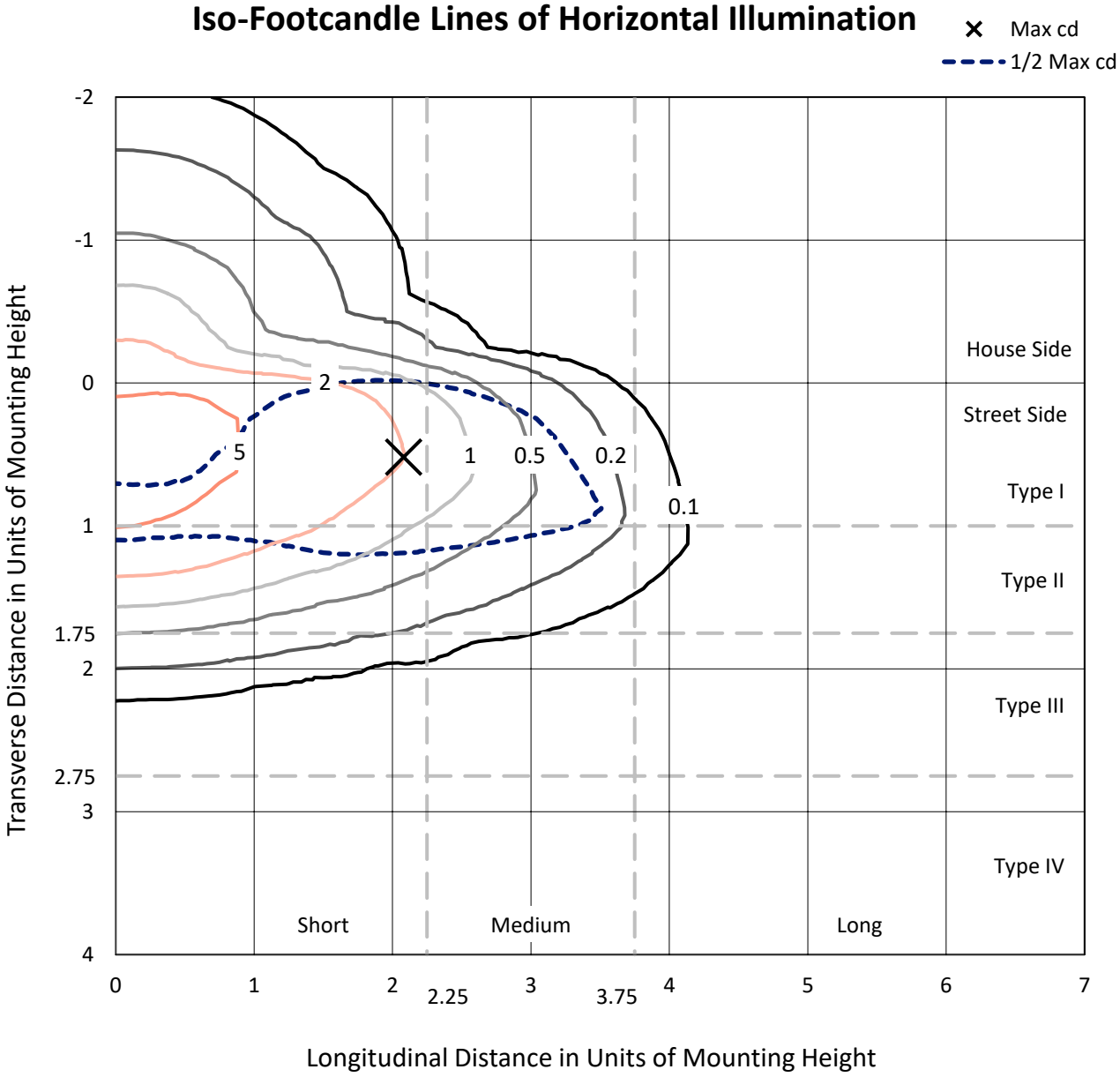
Scaled Data Report

REPORT NUMBER: P639980
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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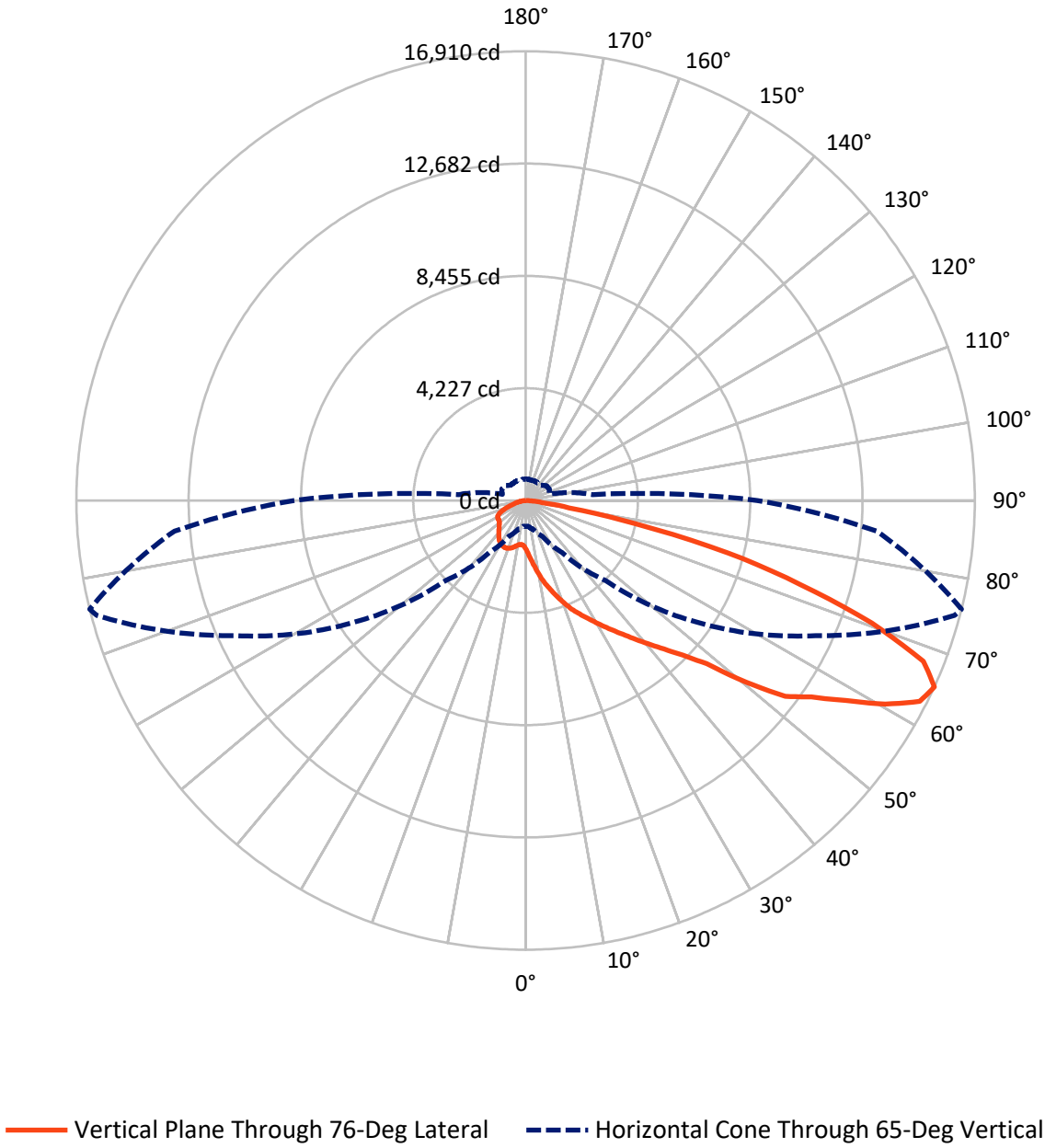
Luminous Intensity Polar Plot



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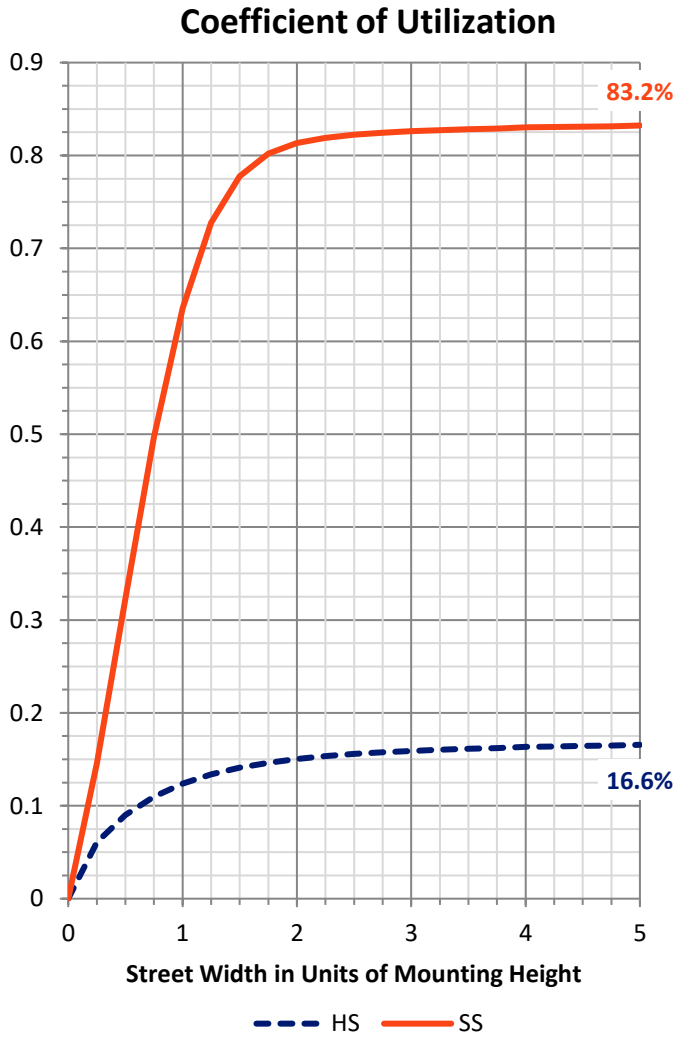
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3224.1	0.0	3224.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	16064.5	0.0	16064.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	19288.6	0.0	19288.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	1.1
10°-20°	826.5	4.3
20°-30°	1610.8	8.4
30°-40°	2694.0	14.0
40°-50°	3857.3	20.0
50°-60°	4566.5	23.7
60°-70°	3797.1	19.7
70°-80°	1553.9	8.1
80°-90°	165.4	0.9
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°	19288.6	100.0
0°-180°	19288.6	100.0



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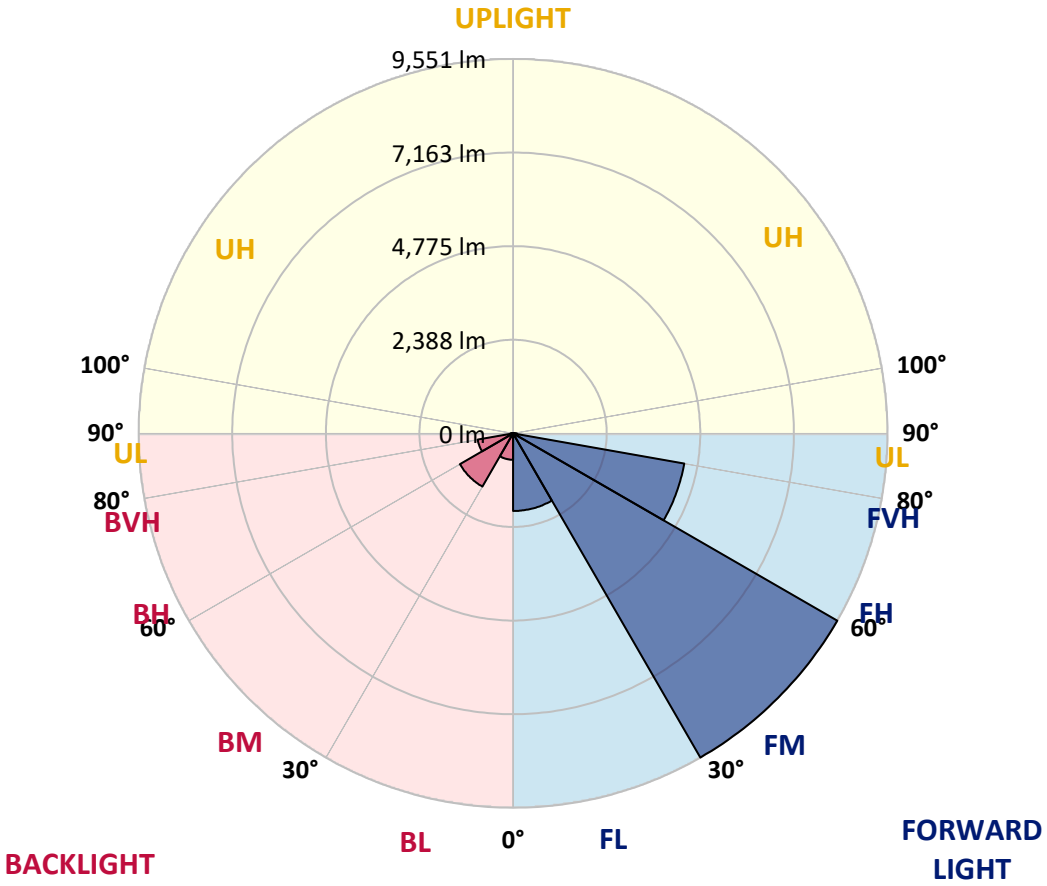
REPORT NUMBER: P639980
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1979.9	10.3			
FM	(30°-60°)	9551.0	49.5			
FH	(60°-80°)	4435.0	23.0			G2/5000
FVH	(80°-90°)	98.7	0.5			G1/100
BL	(0°-30°)	674.5	3.5	B2/1000		
BM	(30°-60°)	1566.9	8.1	B2/2500		
BH	(60°-80°)	916.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	66.8	0.3			G1/100
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: P639980
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	*1826.6*	1826.6
2.5°	2560.2	2569.7	2538.5	2527.6	2454.4	2355.4	2272.7	2147.9	2032.7	*2015.0*	1912.0
5°	3251.7	3211.1	3175.8	3152.7	3051.0	2938.5	2763.6	2529.0	2283.5	*2253.7*	2031.3
7.5°	3662.6	3655.8	3612.4	3598.9	3520.2	3407.7	3227.3	2935.8	2579.2	*2530.3*	2192.7
10°	3992.1	3988.1	3966.4	3978.6	3906.7	3796.9	3621.9	3320.9	2903.2	*2854.4*	2373.0
12.5°	4279.6	4286.4	4282.3	4327.1	4290.4	4205.0	4023.3	3692.4	3227.3	*3174.4*	2592.7
15°	4489.8	4495.2	4515.5	4613.2	4633.5	4615.9	4431.5	4057.2	3547.3	*3471.4*	2819.2
17.5°	4549.4	4560.3	4609.1	4766.4	4876.2	4949.5	4812.5	4428.8	3861.9	*3779.2*	3049.7
20°	4629.5	4641.7	4690.5	4854.6	5015.9	5182.7	5158.3	4805.7	4179.3	*4111.5*	3282.9
22.5°	4999.6	4990.2	4968.5	5047.1	5162.4	5369.8	5430.9	5167.8	4507.4	*4442.3*	3540.6
25°	5712.9	5695.3	5557.0	5485.1	5447.1	5573.2	5681.7	5497.3	4827.4	*4729.8*	3780.6
27.5°	6499.4	6489.9	6313.6	6142.8	5909.5	5855.3	5919.0	5784.8	5138.0	*5039.0*	3989.4
30°	7243.9	7215.4	7031.0	6816.7	6504.8	6271.6	6178.0	6066.8	5478.3	*5375.3*	4233.5
32.5°	7909.7	7873.1	7656.1	7418.8	7092.0	6816.7	6537.4	6366.5	5863.4	*5744.1*	4483.0
35°	8456.1	8419.5	8197.1	7944.9	7585.6	7382.2	6999.8	6692.0	6255.3	*6134.6*	4777.3
37.5°	8879.2	8845.3	8613.4	8365.3	8052.0	7890.7	7558.5	7058.1	6706.9	*6580.8*	5089.1
40°	9116.5	9092.1	8906.3	8709.7	8446.6	8307.0	8157.8	7520.5	7212.7	*7086.6*	5456.6
42.5°	9188.4	9172.1	9041.9	8940.2	8762.6	8656.8	8742.3	8064.3	7752.4	*7642.5*	5870.2
45°	9008.0	9008.0	8970.1	9021.6	9029.7	9028.4	9328.1	8678.5	8415.5	*8294.8*	6453.3
47.5°	8547.0	8576.8	8632.4	8886.0	9153.1	9376.9	10012.9	9497.6	9268.4	*9169.4*	7279.1
50°	7703.6	7784.9	7974.8	8469.7	9037.9	9607.4	10661.0	10708.5	10926.8	*10751.9*	8494.1
52.5°	6468.2	6456.0	6940.1	7645.2	8511.7	9616.9	11017.7	11777.0	12364.2	*12243.5*	9397.2
55°	5140.7	5120.3	5571.9	6544.2	7704.9	9253.5	11231.9	12266.6	13161.5	*13053.0*	10209.5
57.5°	3936.5	3910.8	4312.1	5189.5	6565.8	8481.9	11191.2	12849.6	14258.6	*14203.0*	11313.3
60°	2709.3	2678.1	3053.8	3821.3	5218.0	7302.2	10741.0	13149.3	15542.7	*15561.7*	12494.4
62.5°	1627.2	1609.6	1882.2	2477.4	3753.5	5840.4	9687.4	12967.6	16565.1	*16650.6*	13253.7
65°	*981.8*	*969.6*	*1129.6*	*1478.1*	*2381.2*	*4262.0*	*8062.9*	*12038.7*	*16712.9*	*16909.6*	*13271.4*
67.5°	714.6	716.0	762.1	900.4	1388.6	2752.7	6050.6	10373.6	15942.7	*16146.1*	12434.7
70°	621.1	623.8	648.2	679.4	839.4	1575.7	3933.8	8189.0	13666.0	*13823.3*	10429.2
72.5°	551.9	551.9	568.2	584.4	656.3	960.1	2107.3	5723.8	10785.8	*10827.8*	7959.8
75°	485.5	481.4	489.5	497.7	569.5	671.2	1025.2	3988.1	7966.6	*7869.0*	5144.7
77.5°	386.5	382.4	383.8	391.9	457.0	480.0	519.4	2491.0	4489.8	*4237.6*	2272.7
80°	275.3	272.6	287.5	307.8	337.6	294.3	325.4	1205.5	1780.5	*1657.1*	881.4
82.5°	164.1	169.5	192.6	208.8	233.2	184.4	210.2	402.7	630.5	*614.3*	358.0
85°	23.1	24.4	69.2	80.0	100.3	71.9	111.2	181.7	252.2	*269.8*	126.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	32.5	71.9	*73.2*	31.2
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: P639980
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6	1826.6
2.5°	1859.1	1795.4	1704.5	1628.6	1564.8	1513.3	1469.9	1437.4	1427.9	1414.3	1414.3
5°	1926.9	1811.6	1648.9	1533.7	1467.2	1427.9	1400.8	1387.2	1380.4	1372.3	1368.2
7.5°	2020.5	1859.1	1639.4	1522.8	1471.3	1446.9	1429.2	1421.1	1415.7	1407.5	1407.5
10°	2149.3	1929.6	1669.3	1560.8	1520.1	1495.7	1475.3	1461.8	1449.6	1437.4	1434.7
12.5°	2289.0	2021.8	1723.5	1612.3	1568.9	1539.1	1510.6	1490.3	1475.3	1460.4	1456.4
15°	2443.5	2116.7	1781.8	1662.5	1608.2	1567.6	1533.7	1502.5	1482.1	1460.4	1457.7
17.5°	2595.4	2213.0	1830.6	1696.4	1627.2	1577.1	1528.2	1487.6	1461.8	1437.4	1430.6
20°	2777.1	2309.3	1864.5	1705.9	1623.2	1556.7	1498.4	1446.9	1418.4	1389.9	1385.9
22.5°	2943.9	2398.8	1880.8	1692.3	1592.0	1513.3	1445.5	1389.9	1358.7	1330.3	1324.8
25°	3105.3	2477.4	1874.0	1659.8	1544.5	1453.7	1383.1	1327.5	1297.7	1267.9	1259.7
27.5°	3261.2	2530.3	1846.9	1609.6	1484.8	1387.2	1319.4	1269.2	1243.5	1217.7	1206.9
30°	3414.5	2579.2	1804.9	1544.5	1408.9	1318.1	1262.5	1227.2	1201.4	1174.3	1166.2
32.5°	3569.0	2614.4	1741.1	1468.6	1331.6	1257.0	1223.1	1197.4	1170.2	1143.1	1135.0
35°	3725.0	2629.3	1663.8	1381.8	1266.5	1217.7	1205.5	1175.7	1139.1	1106.5	1095.7
37.5°	3910.8	2642.9	1567.6	1296.4	1209.6	1198.7	1196.0	1151.3	1107.9	1063.1	1050.9
40°	4134.5	2660.5	1468.6	1219.1	1163.5	1191.9	1181.1	1120.1	1033.3	989.9	976.3
42.5°	4408.4	2693.1	1365.5	1148.5	1129.6	1166.2	1154.0	1044.1	985.8	961.4	954.6
45°	4811.2	2812.4	1262.5	1093.0	1103.8	1129.6	1110.6	999.4	976.3	960.1	951.9
47.5°	5528.5	2995.4	1173.0	1050.9	1083.5	1097.0	1023.8	987.2	969.6	947.9	938.4
50°	6274.3	3075.5	1101.1	1025.2	1060.4	1067.2	976.3	970.9	958.7	935.7	926.2
52.5°	6778.7	3064.6	1057.7	1015.7	1041.4	1015.7	954.6	953.3	945.1	918.0	907.2
55°	7348.3	3083.6	1038.7	1018.4	1033.3	928.9	927.5	931.6	927.5	897.7	892.3
57.5°	8117.1	3141.9	1029.2	1027.9	1027.9	886.8	901.8	907.2	899.0	885.5	881.4
60°	8856.2	3146.0	1011.6	1038.7	1023.8	861.1	871.9	877.3	867.9	865.1	863.8
62.5°	9134.2	2950.7	972.3	1030.6	1007.5	832.6	840.7	843.4	834.0	840.7	839.4
65°	*8720.6*	*2535.8*	*907.2*	*991.3*	*957.4*	*806.8*	*801.4*	*808.2*	*791.9*	*809.5*	*810.9*
67.5°	7742.9	2015.0	808.2	916.7	886.8	778.4	767.5	767.5	740.4	767.5	766.2
70°	6243.1	1423.8	663.1	797.3	809.5	744.5	739.0	707.8	664.4	705.1	701.1
72.5°	4732.5	1022.4	522.1	630.5	697.0	697.0	698.4	645.5	595.3	614.3	598.0
75°	2998.2	720.0	417.7	482.7	546.5	611.6	642.8	545.1	500.4	492.2	484.1
77.5°	1350.6	473.3	325.4	370.2	387.8	482.7	587.2	469.2	408.2	390.5	385.1
80°	565.5	294.3	231.9	261.7	238.7	405.5	518.0	364.8	299.7	275.3	257.6
82.5°	248.2	174.9	147.8	141.0	149.2	301.0	386.5	242.7	187.1	253.6	256.3
85°	104.4	92.2	75.9	69.2	61.0	115.3	181.7	94.9	116.6	66.4	54.2
87.5°	24.4	27.1	20.3	13.6	8.1	1.4	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

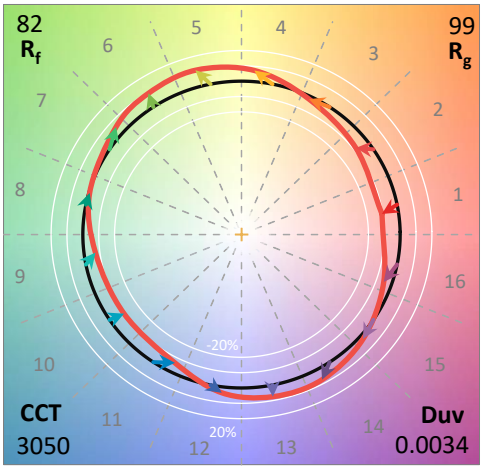
Test Information

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

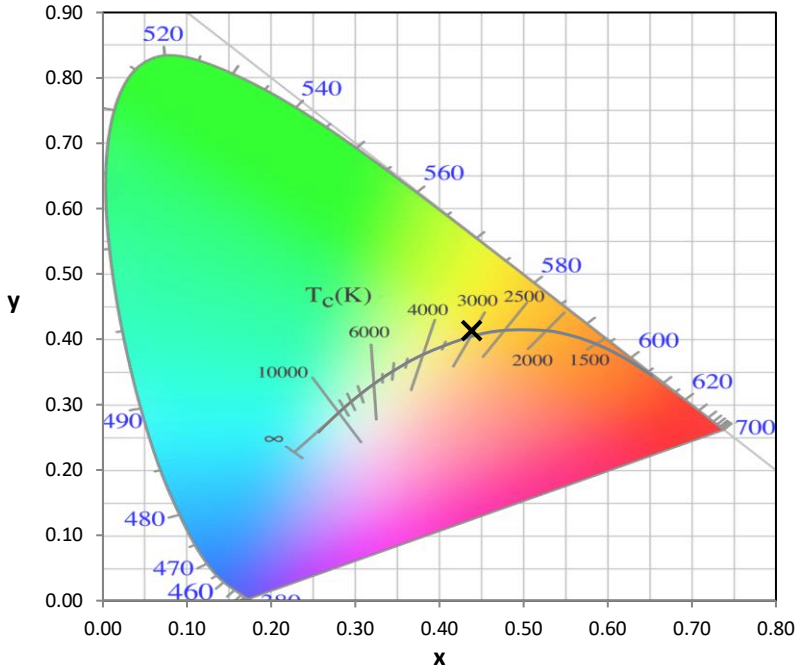
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

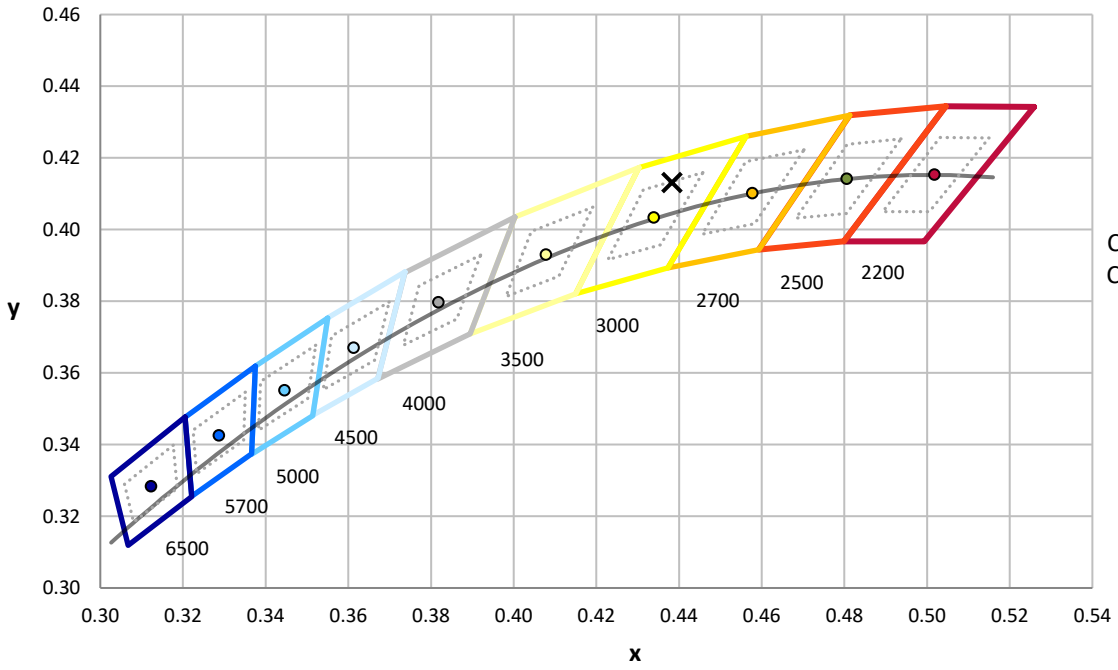
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

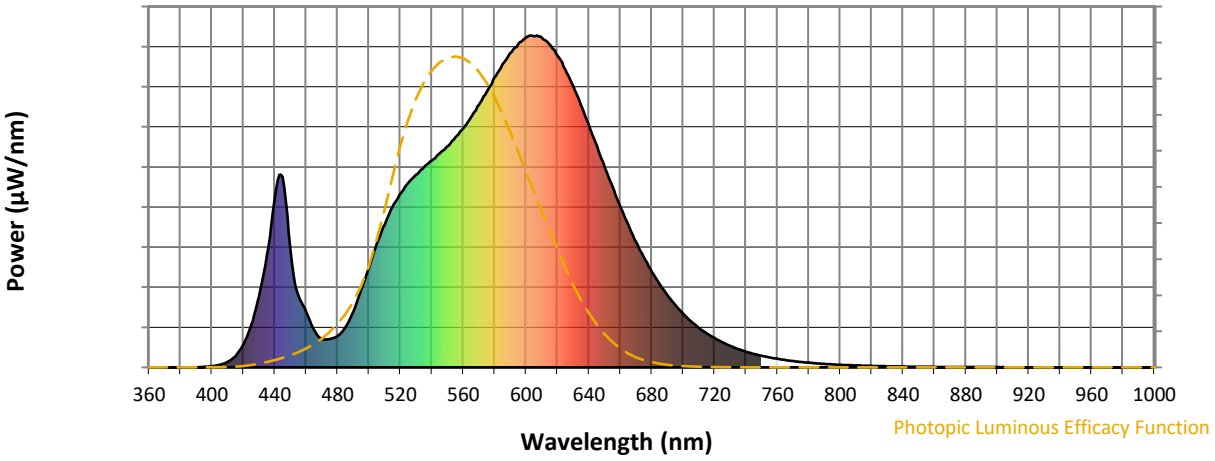


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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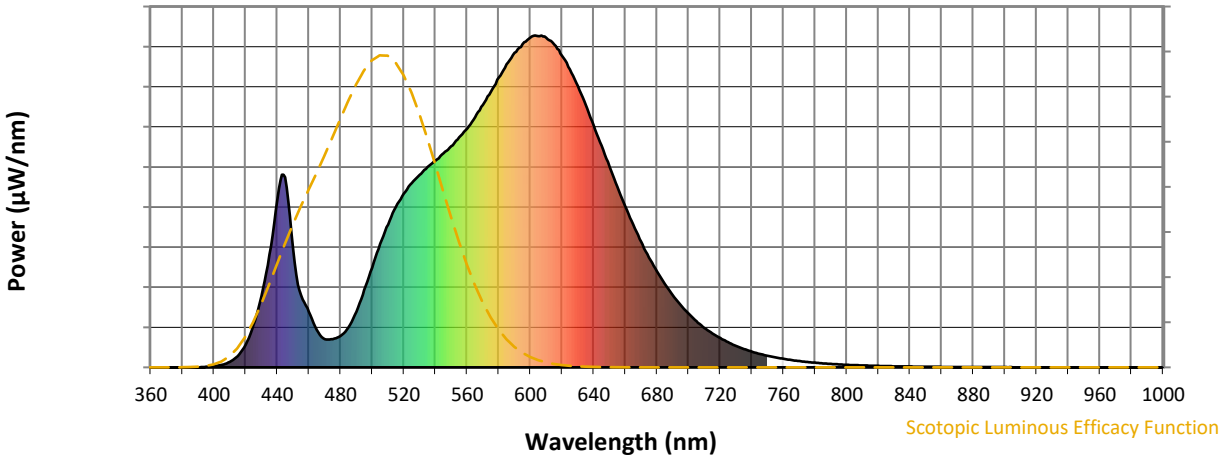
Scotopic Flux vs. Wavelength



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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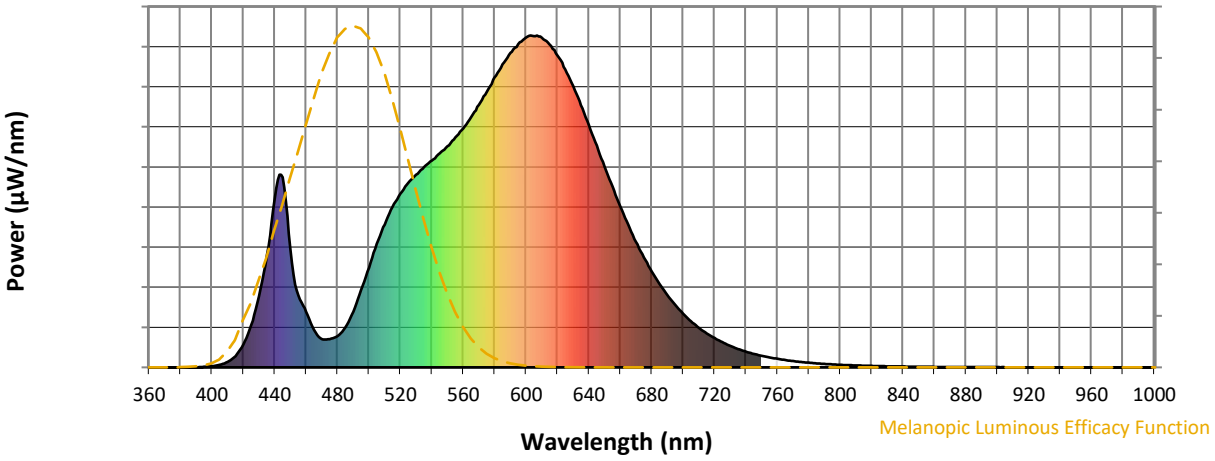
Melanopic Flux vs. Wavelength



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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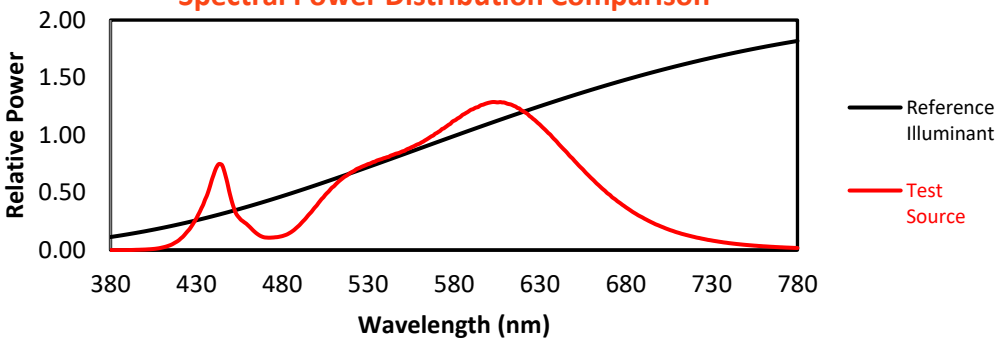
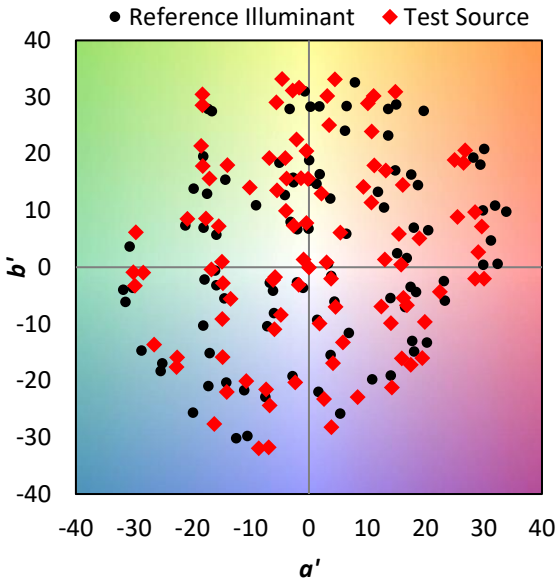
Summary

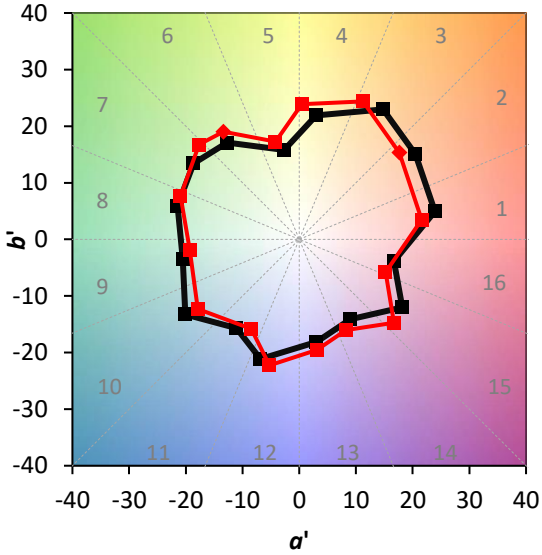
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

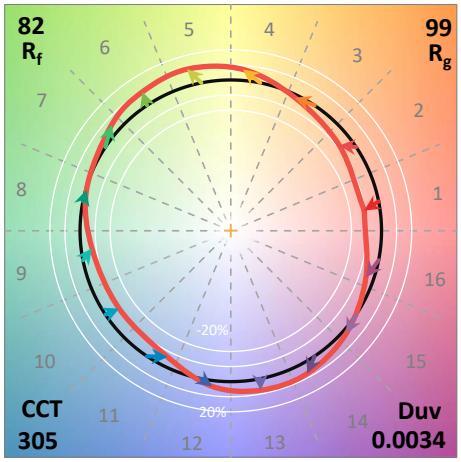
Spectral Power Distribution Comparison

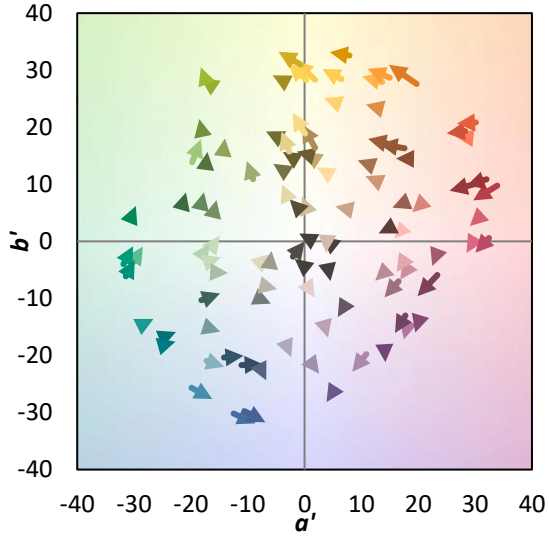


Color Vector Graphics









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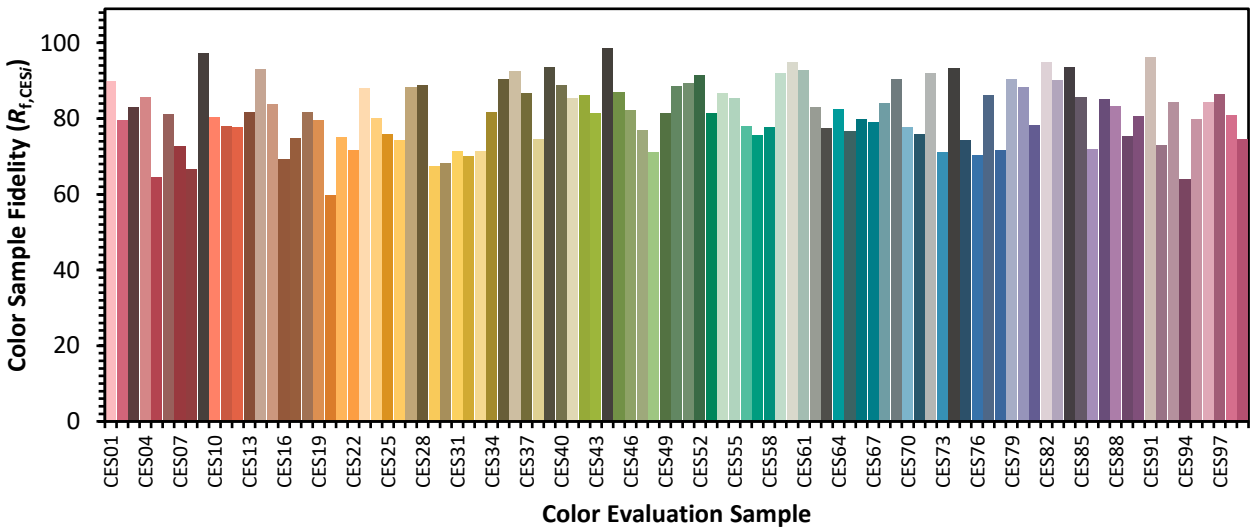
Individual Sample Fidelity Index ($R_{f,i}$)

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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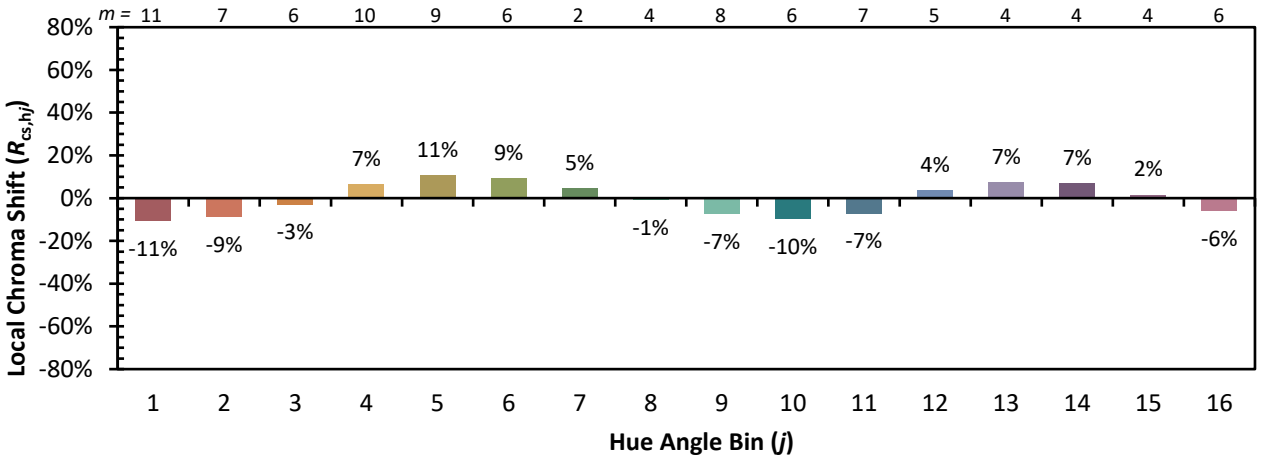
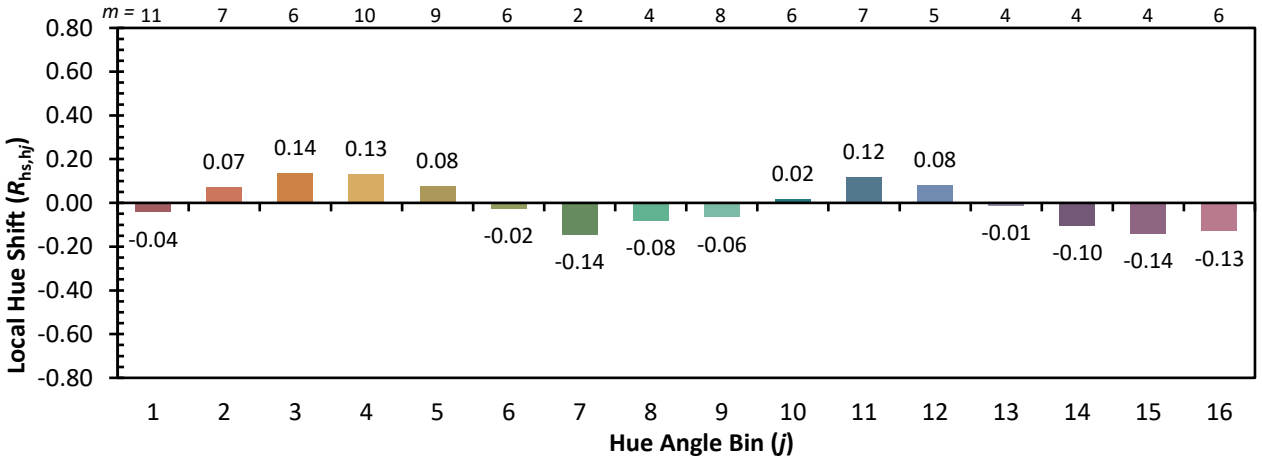
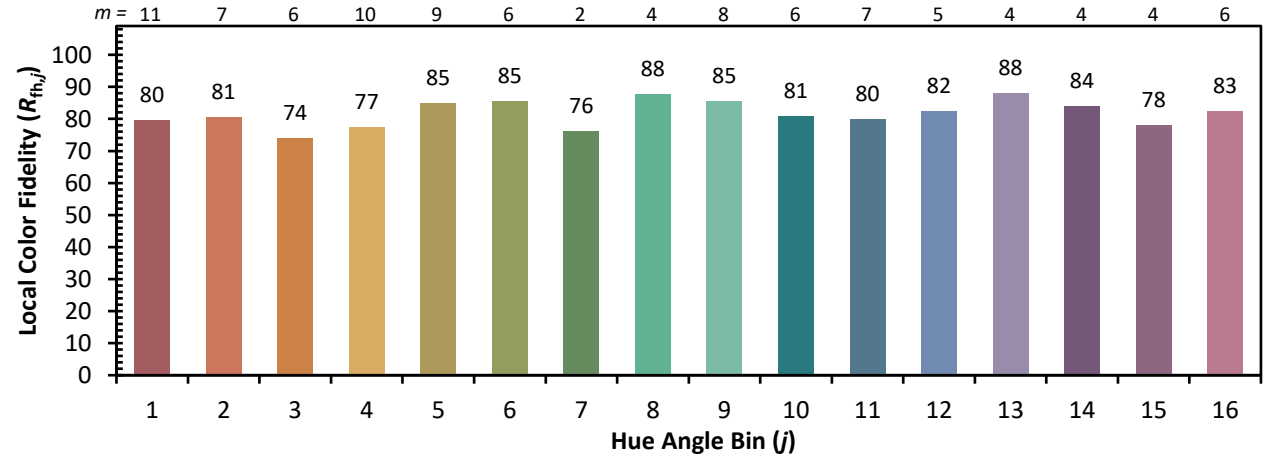
Color Rendition by Hue-Angle Bin







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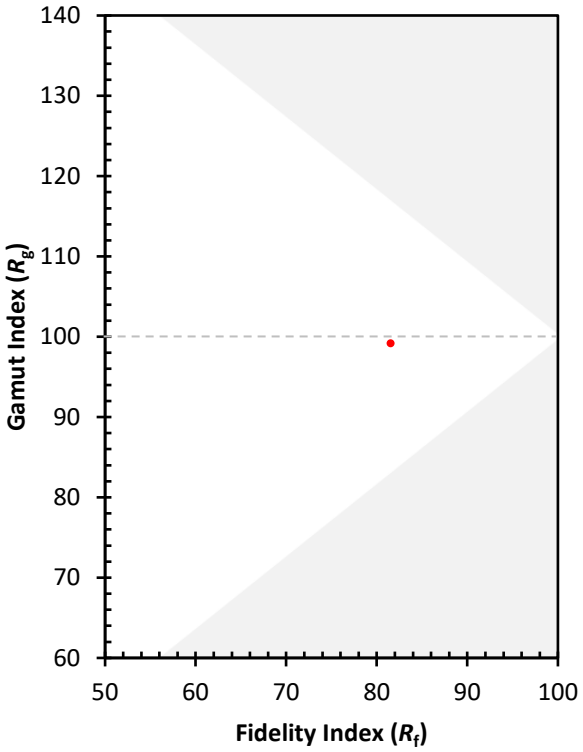
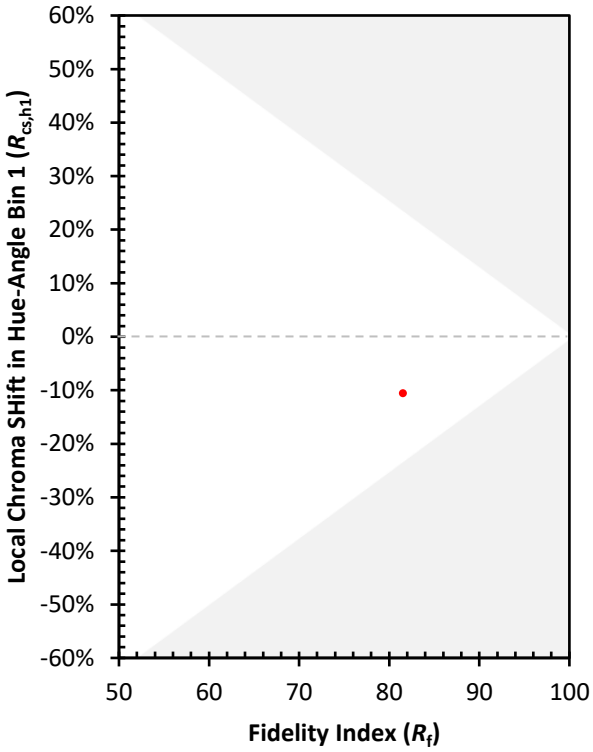
Measure Comparisons





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