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: P632567

Luminaire Tested: GWS-SA2C-830-U-T4W-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:	P632567
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T4W-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7289.3 lumens
Efficiency:	N/A
Efficacy:	115.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	63.2
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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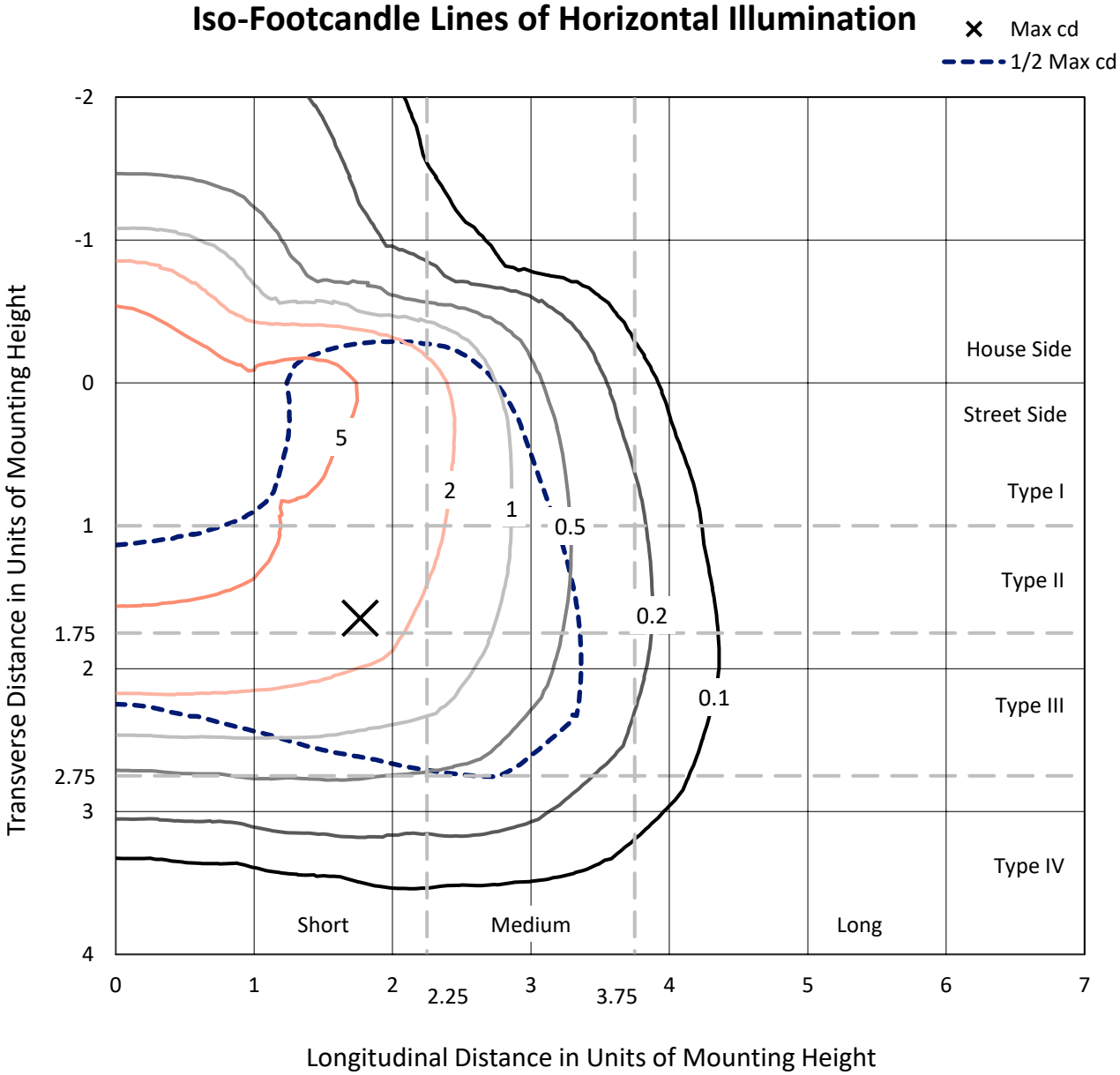
Scaled Data Report

REPORT NUMBER: P632567
CATALOG NUMBER: GWS-SA2C-830-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Short - N/A

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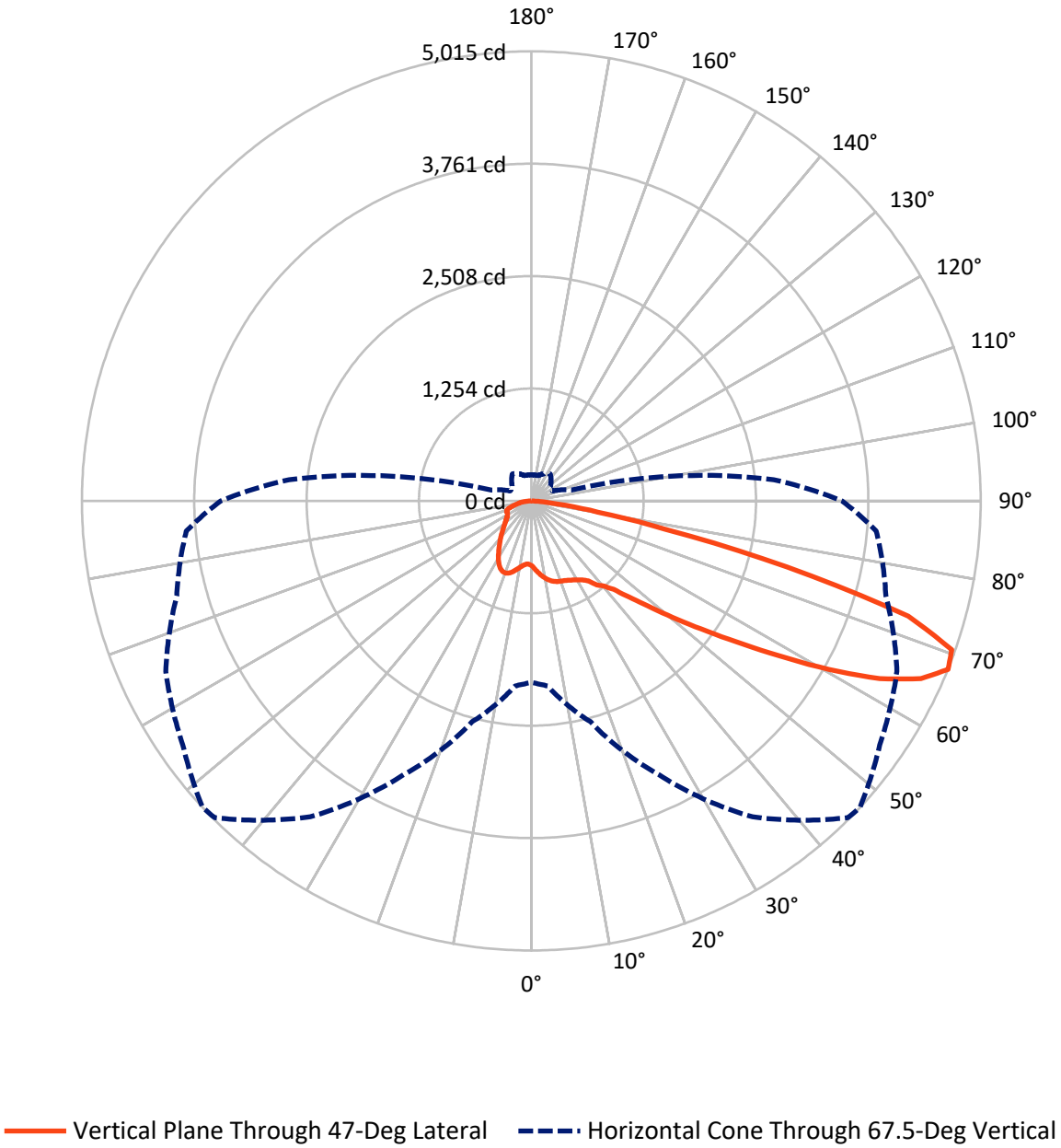
REPORT NUMBER: P632567
CATALOG NUMBER: GWS-SA2C-830-U-T4W-W

Luminous Intensity Polar Plot



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REPORT NUMBER: P632567
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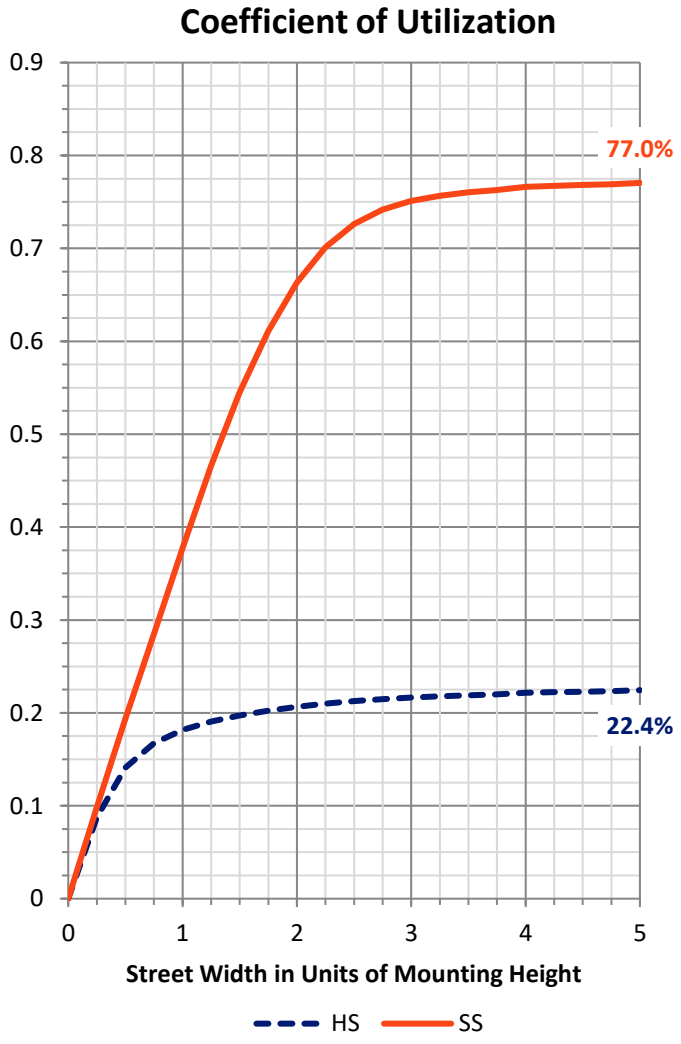
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.3	0.0	1661.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	5628.0	0.0	5628.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	7289.3	0.0	7289.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	1.0
10°-20°	246.0	3.4
20°-30°	418.2	5.7
30°-40°	612.6	8.4
40°-50°	933.4	12.8
50°-60°	1670.1	22.9
60°-70°	2228.5	30.6
70°-80°	1007.8	13.8
80°-90°	98.7	1.4
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°	7289.3	100.0
0°-180°	7289.3	100.0



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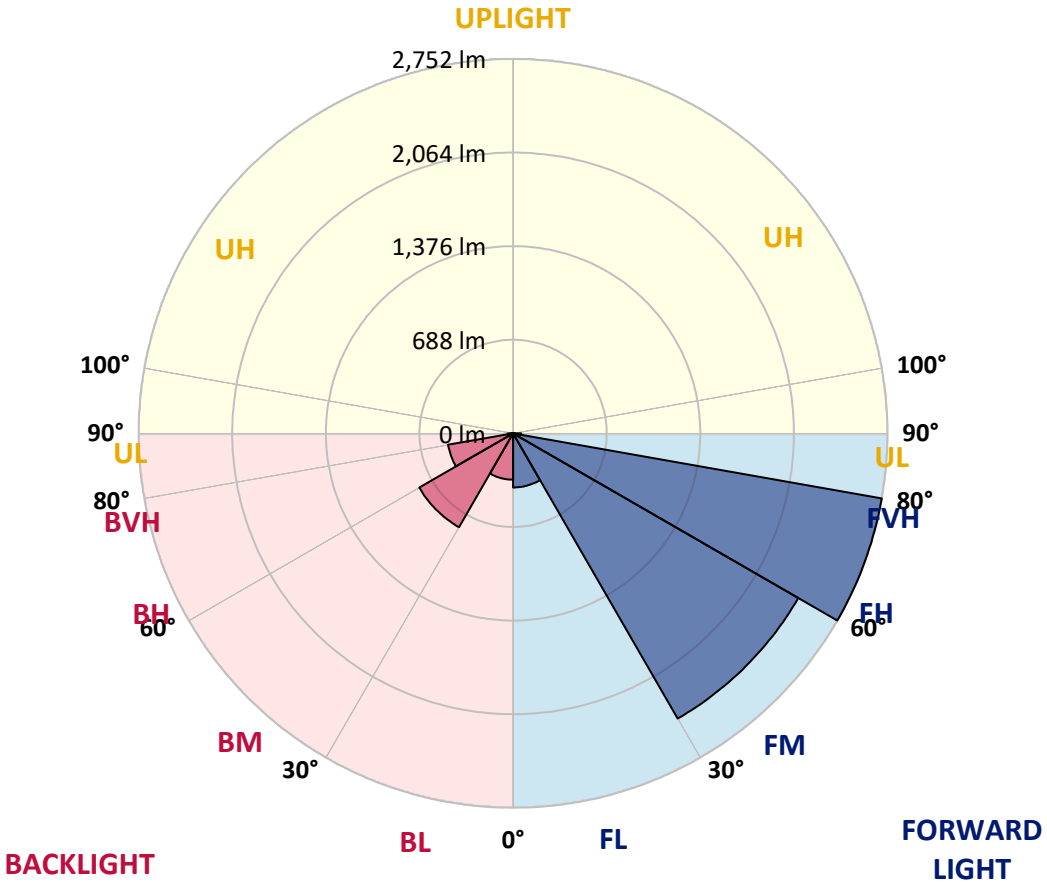
REPORT NUMBER: P632567
CATALOG NUMBER: GWS-SA2C-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	397.5	5.5			
FM	(30°-60°)	2420.1	33.2			
FH	(60°-80°)	2751.6	37.7			G2/5000
FVH	(80°-90°)	58.7	0.8			G1/100
BL	(0°-30°)	340.6	4.7	B1/500		
BM	(30°-60°)	796.0	10.9	B1/1000		
BH	(60°-80°)	484.7	6.6	B1/500		G1/500
BVH	(80°-90°)	40.0	0.5			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 III Short



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Scaled Data Report

REPORT NUMBER: P632567
CATALOG NUMBER: GWS-SA2C-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	722.6	722.6	722.6	722.6	722.6	722.6	*722.6*	722.6	722.6	722.6	722.6
2.5°	770.6	773.2	772.7	768.5	765.8	761.1	*761.6*	754.2	743.2	735.8	727.3
5°	838.6	842.8	837.5	830.6	820.1	804.8	*803.2*	786.4	765.3	750.5	735.2
7.5°	897.6	900.2	893.9	882.3	867.0	846.5	*842.8*	822.7	796.4	773.2	751.1
10°	943.4	946.6	938.2	922.9	902.9	882.3	*879.7*	859.1	831.2	803.8	775.8
12.5°	982.4	983.5	974.5	954.0	932.4	911.3	*908.7*	889.7	863.9	835.9	805.3
15°	1005.1	1005.6	994.6	971.9	951.3	932.9	*931.3*	915.0	891.3	864.9	832.2
17.5°	1003.5	1004.6	996.7	976.6	958.7	947.7	*946.1*	935.5	917.1	893.4	860.7
20°	984.0	985.1	979.8	966.6	957.1	954.0	*954.5*	951.3	940.3	920.8	887.6
22.5°	968.7	970.3	965.6	956.1	955.0	962.4	*964.0*	965.6	960.3	942.9	910.8
25°	976.1	978.8	971.4	958.2	960.3	976.6	*979.8*	985.1	980.9	966.1	938.2
27.5°	1027.2	1028.8	1009.8	983.0	976.6	994.0	*998.8*	1007.2	1004.1	990.3	968.7
30°	1145.8	1144.8	1104.2	1038.3	1012.0	1018.8	*1022.5*	1034.6	1035.7	1026.7	1006.2
32.5°	1312.9	1307.6	1244.9	1140.0	1063.6	1046.7	*1051.0*	1067.3	1079.4	1069.9	1042.0
35°	1489.5	1484.7	1415.7	1292.9	1159.0	1100.5	*1095.8*	1108.4	1126.9	1100.5	1060.4
37.5°	1657.6	1650.2	1579.6	1427.8	1276.5	1194.8	*1188.0*	1175.3	1164.3	1113.7	1083.1
40°	1844.2	1835.8	1774.1	1602.3	1406.2	1267.1	*1249.7*	1199.6	1189.6	1157.4	1142.1
42.5°	2043.4	2043.4	1992.3	1823.1	1562.7	1370.4	*1347.7*	1272.3	1282.9	1261.8	1243.9
45°	2242.6	2248.4	2207.9	2045.5	1772.0	1565.4	*1529.0*	1422.0	1447.3	1437.8	1428.9
47.5°	2412.4	2423.4	2415.5	2272.7	2028.1	1802.5	*1747.2*	1636.0	1690.3	1712.9	1738.2
50°	2595.2	2607.4	2599.5	2543.1	2328.0	2089.8	*2040.3*	1925.4	2018.6	2086.6	2169.4
52.5°	2866.7	2884.1	2818.2	2796.6	2692.2	2416.0	*2371.8*	2241.1	2410.2	2523.0	2707.5
55°	3096.0	3095.4	3072.2	3121.8	3083.3	2815.0	*2766.0*	2647.4	2863.5	2983.2	3253.0
57.5°	3202.4	3215.1	3294.7	3434.9	3511.8	3302.6	*3255.7*	3134.4	3350.0	3412.2	3703.7
60°	3257.2	3273.0	3426.9	3704.2	3911.3	3834.9	*3816.4*	3662.0	3783.2	3775.9	4083.7
62.5°	3180.3	3211.9	3459.1	3827.5	4196.5	4369.9	*4364.1*	4130.6	4151.7	4079.5	4319.3
65°	2827.2	2861.4	3249.3	3765.8	4359.3	4776.8	*4778.3*	4554.9	4434.7	4227.0	4279.7
67.5°	*2021.8*	*2070.8*	*2550.4*	*3369.5*	*4301.9*	*4996.5*	*5015.0*	*4747.2*	*4501.1*	*4096.3*	*3864.4*
70°	1102.1	1137.9	1513.7	2449.3	3784.3	4943.8	*4978.1*	4654.5	4208.1	3543.4	2974.7
72.5°	500.7	512.3	704.2	1344.0	2585.2	4255.5	*4398.8*	4153.8	3455.9	2617.4	1891.6
75°	229.3	234.5	306.7	643.0	1350.9	2847.7	*2948.4*	3093.8	2405.0	1652.9	986.1
77.5°	143.9	145.5	174.5	294.1	673.6	1421.5	*1527.4*	1842.1	1408.3	818.0	412.2
80°	84.9	86.4	108.6	159.2	316.2	650.4	*751.1*	728.4	662.0	353.1	187.6
82.5°	42.7	44.3	62.7	90.7	172.3	258.8	*304.6*	306.2	246.7	191.3	105.9
85°	15.3	15.8	20.6	35.8	73.3	85.4	*95.4*	116.5	120.7	111.2	51.1
87.5°	0.0	0.0	0.5	1.1	2.1	8.4	*9.0*	16.9	35.3	39.5	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: P632567
CATALOG NUMBER: GWS-SA2C-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	724.7	716.8	714.2	711.5	707.3	705.7	702.6	699.4	699.4	696.2	694.7
5°	728.4	717.9	711.0	707.8	705.2	706.8	706.8	707.8	711.5	709.4	710.5
7.5°	741.6	729.5	720.0	717.3	717.3	723.7	727.9	733.1	740.0	741.0	741.0
10°	764.8	750.5	740.5	738.9	741.6	750.5	756.9	763.2	771.6	772.1	773.2
12.5°	790.1	775.8	765.8	767.9	770.6	782.2	789.0	794.3	802.7	802.7	802.2
15°	816.4	800.6	792.2	796.4	804.3	817.5	818.5	819.1	823.3	822.2	821.7
17.5°	843.8	827.0	820.6	827.0	835.4	841.7	836.4	829.1	827.5	825.4	824.3
20°	870.7	853.3	850.7	855.4	858.1	852.8	836.4	822.7	816.4	813.3	812.2
22.5°	893.9	879.1	877.6	877.6	864.4	845.9	821.7	803.2	794.8	790.6	789.5
25°	921.3	907.6	905.0	890.7	857.0	823.3	790.6	773.7	766.9	764.8	765.3
27.5°	953.5	944.0	935.5	894.9	835.9	783.2	746.3	738.9	736.3	738.9	740.5
30°	993.0	983.5	964.5	889.7	802.2	731.0	695.7	695.2	703.1	710.0	711.0
32.5°	1025.1	1020.9	989.8	872.8	754.8	673.6	643.5	645.6	659.9	669.4	670.9
35°	1050.4	1057.3	1010.9	844.9	698.4	619.3	595.6	596.6	604.5	617.7	618.2
37.5°	1086.3	1109.5	1029.9	802.2	633.5	572.4	550.8	542.9	541.8	545.5	546.6
40°	1158.5	1193.3	1043.6	740.0	570.8	530.2	506.0	490.7	477.5	467.5	464.3
42.5°	1267.6	1307.6	1051.5	664.6	514.9	488.6	461.2	441.7	418.5	397.4	390.0
45°	1467.9	1481.0	1051.5	584.5	465.4	449.6	422.2	399.0	369.5	344.7	339.4
47.5°	1788.3	1746.2	1052.5	507.0	421.6	415.3	391.6	365.3	332.6	312.0	308.9
50°	2271.1	2123.0	1074.1	442.7	385.3	386.3	368.9	340.0	310.4	295.2	292.5
52.5°	2818.2	2587.3	1132.1	395.3	354.7	362.6	353.1	325.2	298.8	285.7	283.0
55°	3332.6	3014.3	1181.7	361.6	328.9	342.6	342.1	316.2	292.5	279.3	277.8
57.5°	3770.1	3306.8	1174.3	334.2	306.7	324.1	332.0	310.4	288.3	277.2	275.7
60°	4042.0	3461.7	1069.4	308.9	289.9	311.0	326.3	308.9	290.4	287.8	288.3
62.5°	4160.1	3433.3	868.1	289.9	278.8	304.6	332.6	319.9	309.9	316.2	319.9
65°	3976.7	3188.7	638.8	275.7	268.3	306.2	347.3	337.3	309.9	314.1	315.7
67.5°	*3467.5*	*2714.4*	*461.7*	*261.4*	*255.1*	*311.0*	*368.4*	*334.7*	*292.0*	*292.0*	*288.8*
70°	2498.8	1952.2	335.2	247.2	241.9	304.1	369.5	316.8	271.4	269.9	261.9
72.5°	1503.7	1151.6	261.4	231.4	221.9	269.9	346.3	295.7	251.4	238.2	228.7
75°	781.1	577.1	219.3	214.0	190.3	228.7	316.8	263.0	215.0	203.4	198.2
77.5°	334.7	269.9	188.2	190.8	158.1	192.4	255.6	227.7	190.8	176.0	171.3
80°	165.0	153.4	148.6	152.8	126.5	148.6	220.3	199.2	161.8	144.9	138.1
82.5°	94.3	89.6	107.0	108.6	90.1	124.4	186.1	168.7	133.9	115.4	104.4
85°	43.7	46.9	64.8	65.4	55.9	85.4	121.8	94.9	71.2	59.0	56.4
87.5°	17.4	20.6	28.5	27.9	16.3	15.8	10.5	5.8	4.7	4.2	3.7
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

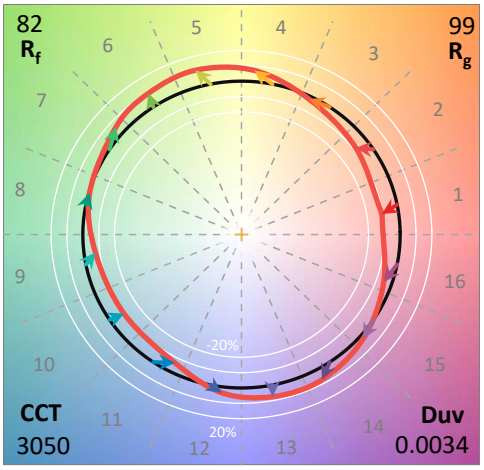
Test Information

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

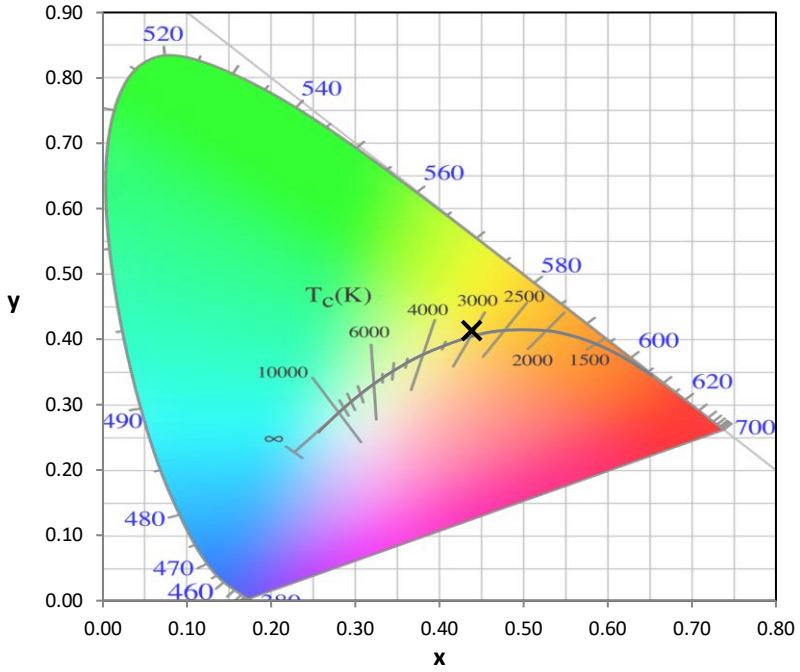
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

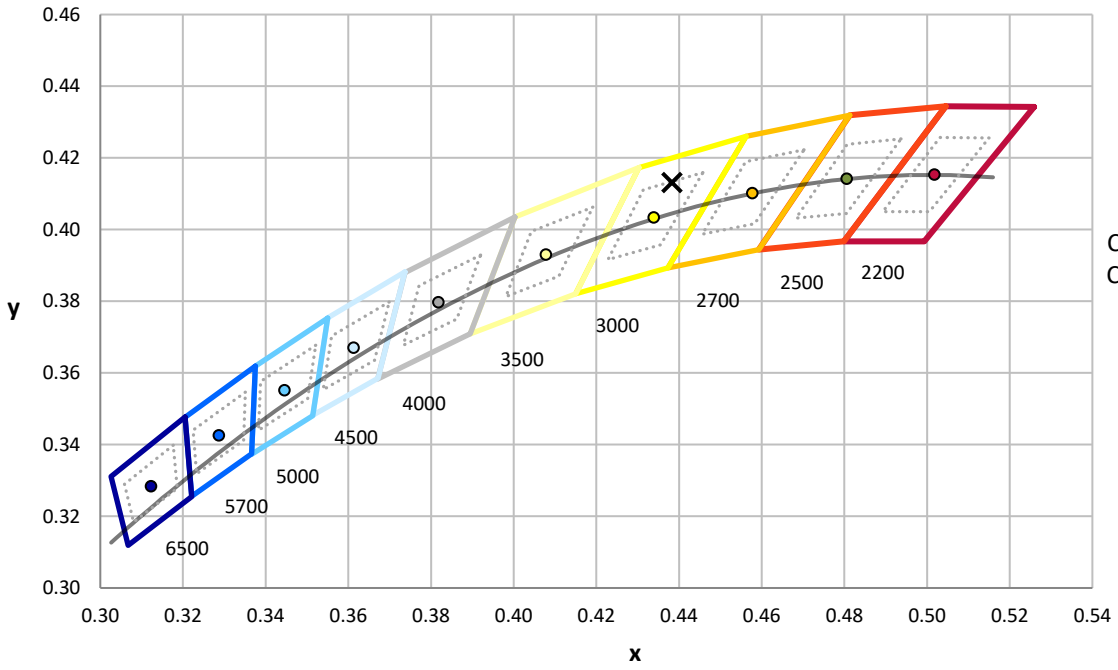
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

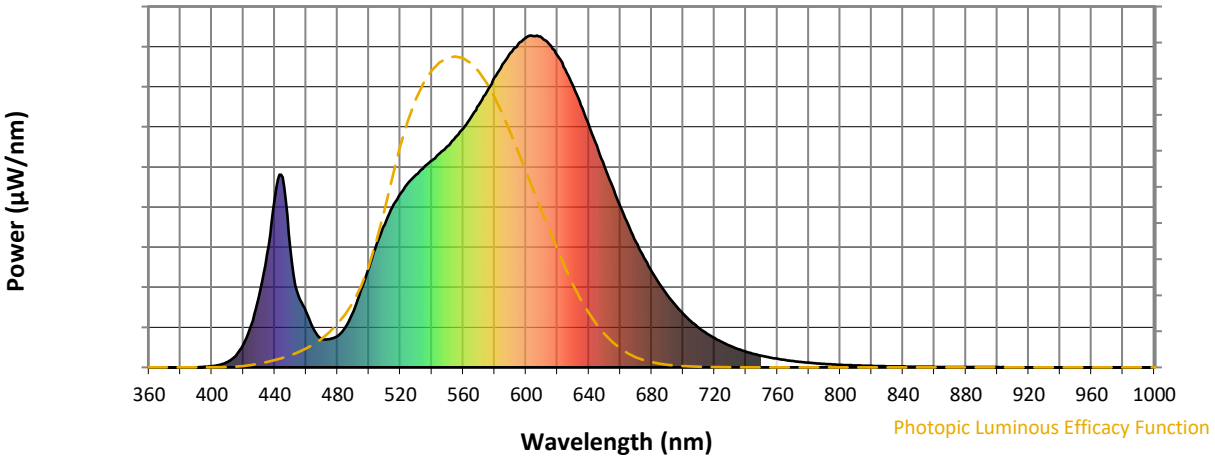


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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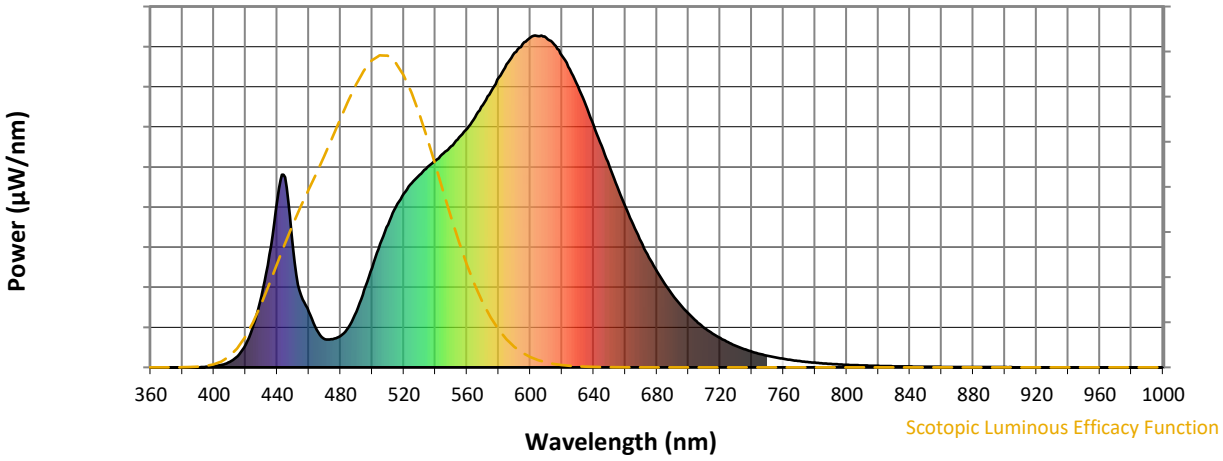
Scotopic Flux vs. Wavelength



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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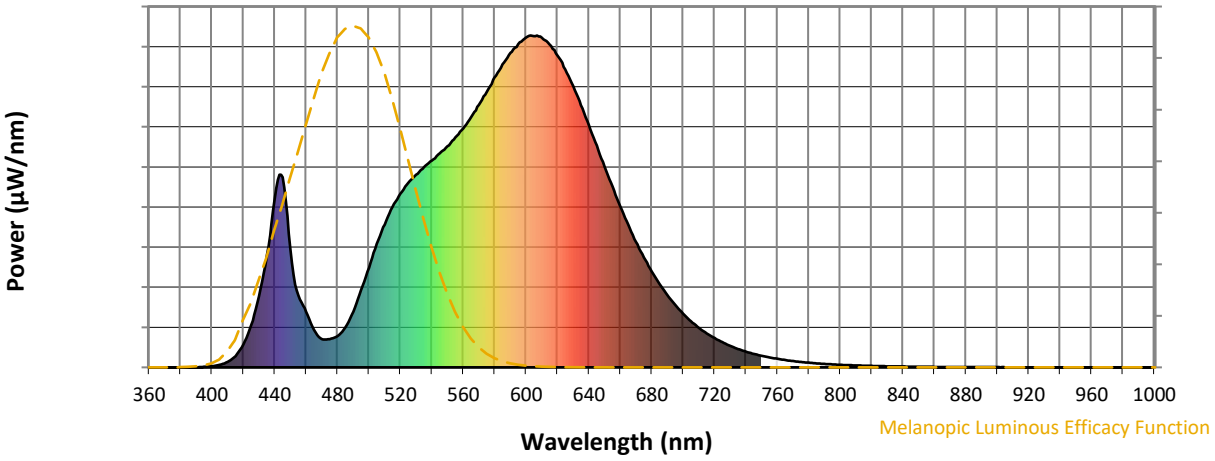
Melanopic Flux vs. Wavelength



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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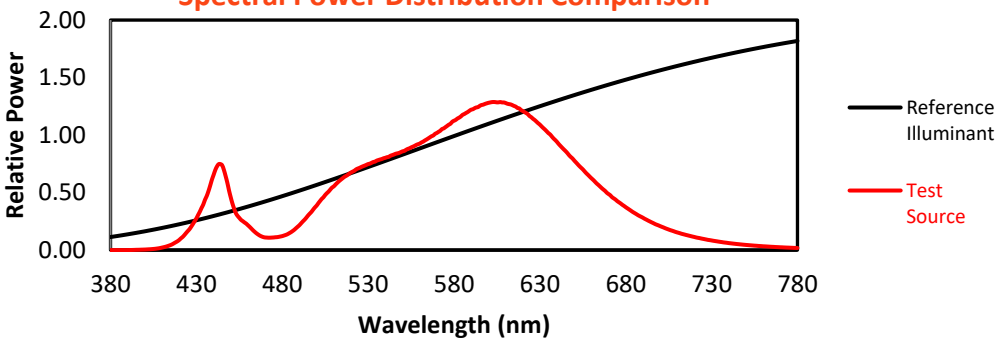
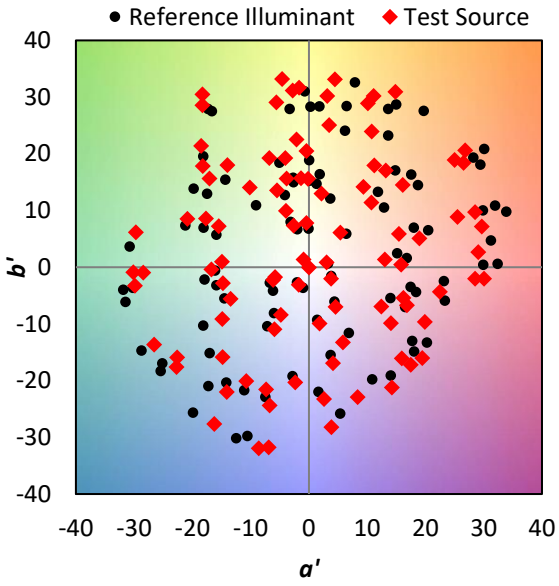
Summary

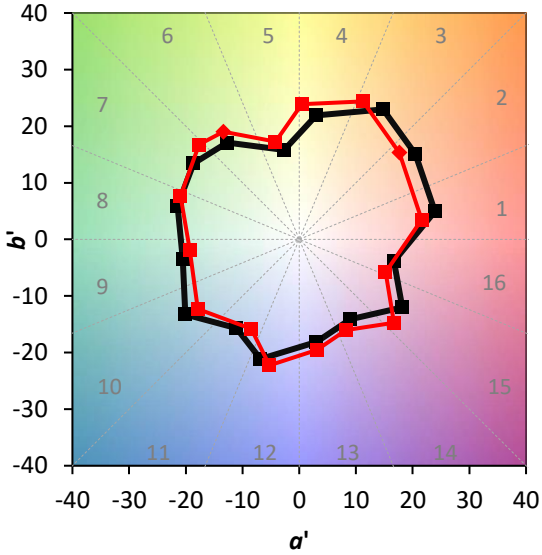
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

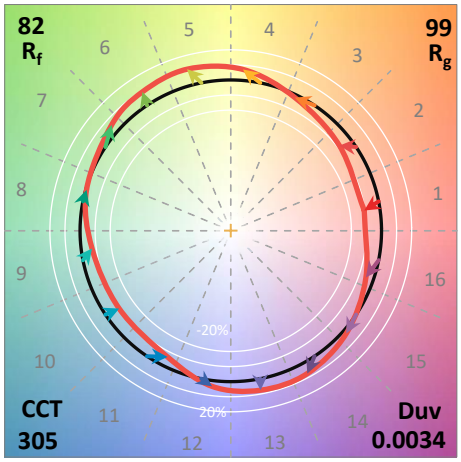
Spectral Power Distribution Comparison

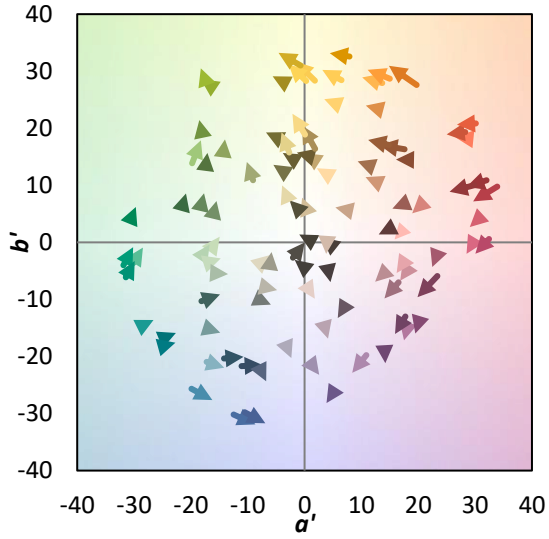


Color Vector Graphics









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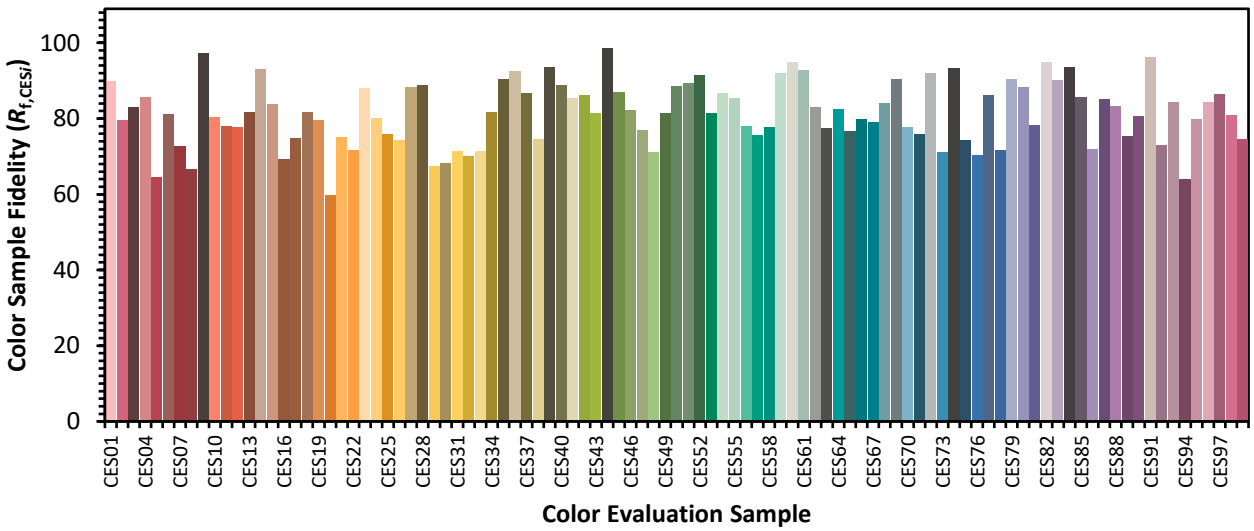
Individual Sample Fidelity Index ($R_{f,i}$)

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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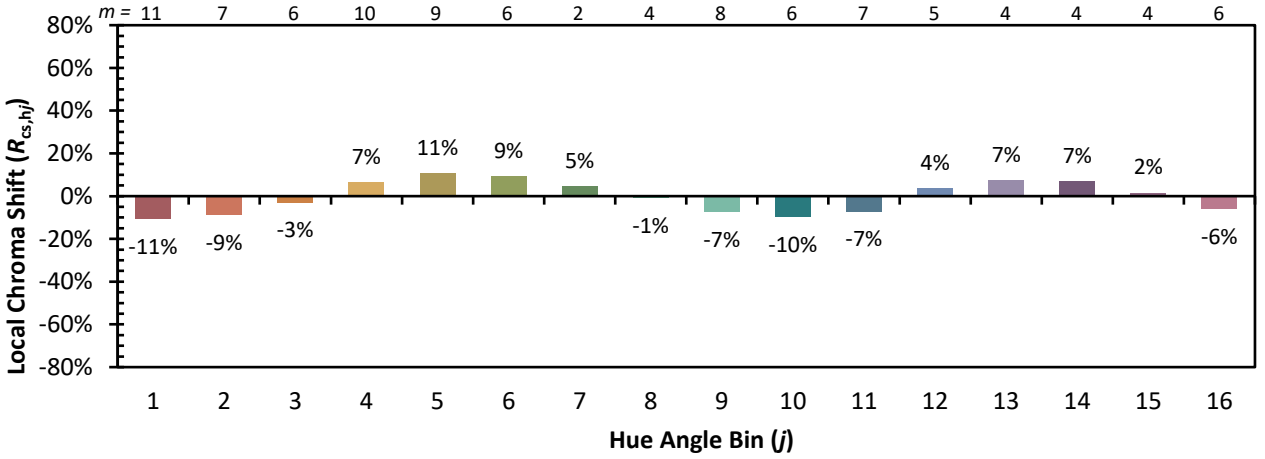
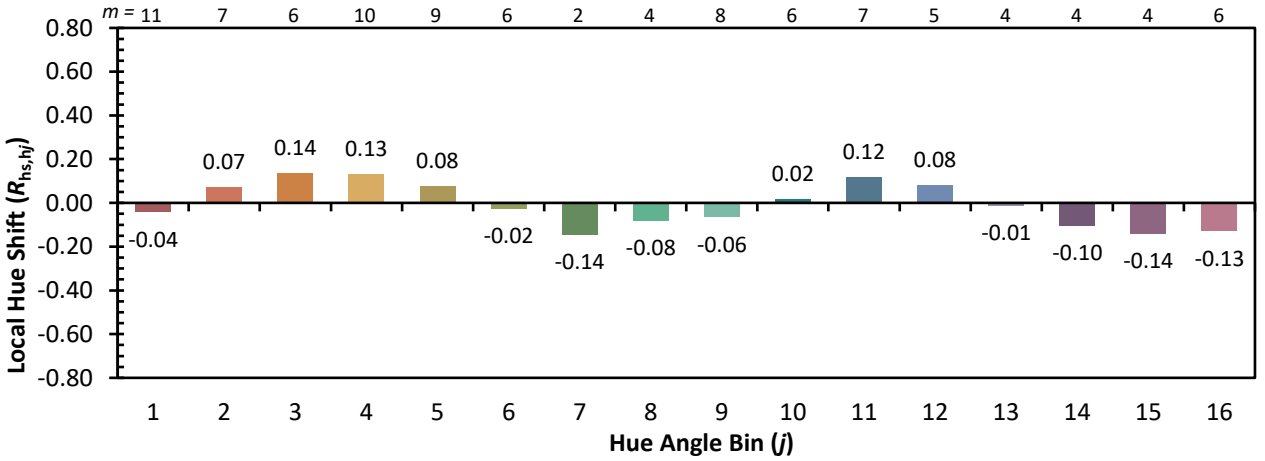
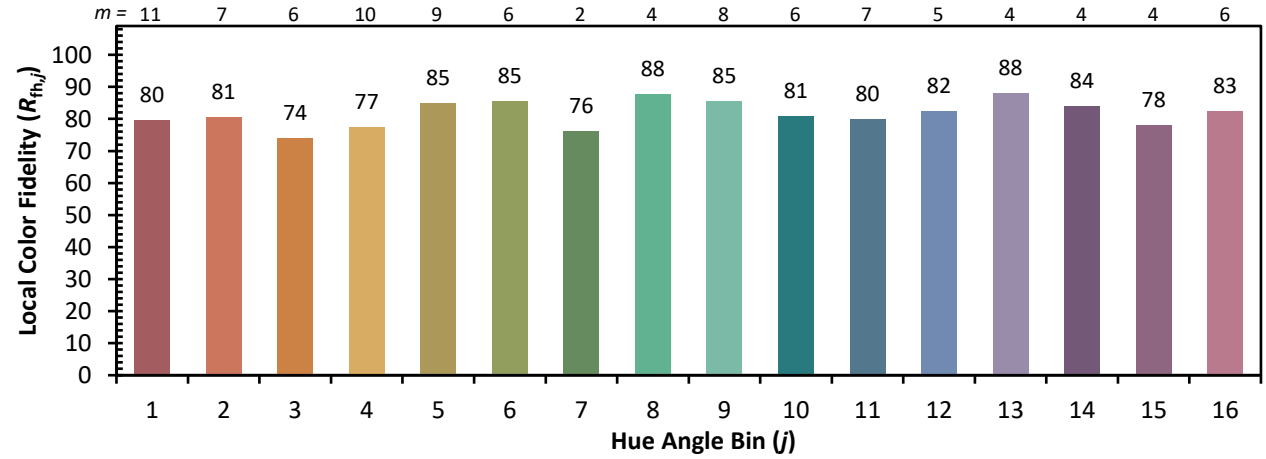
Color Rendition by Hue-Angle Bin







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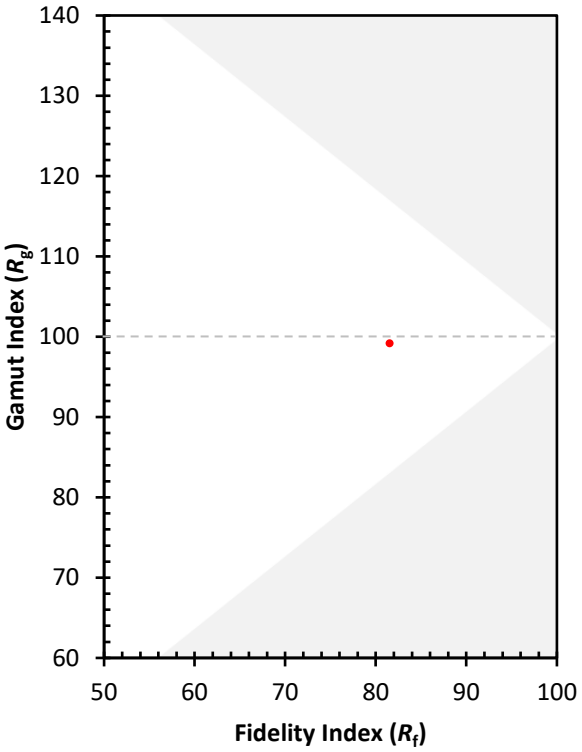
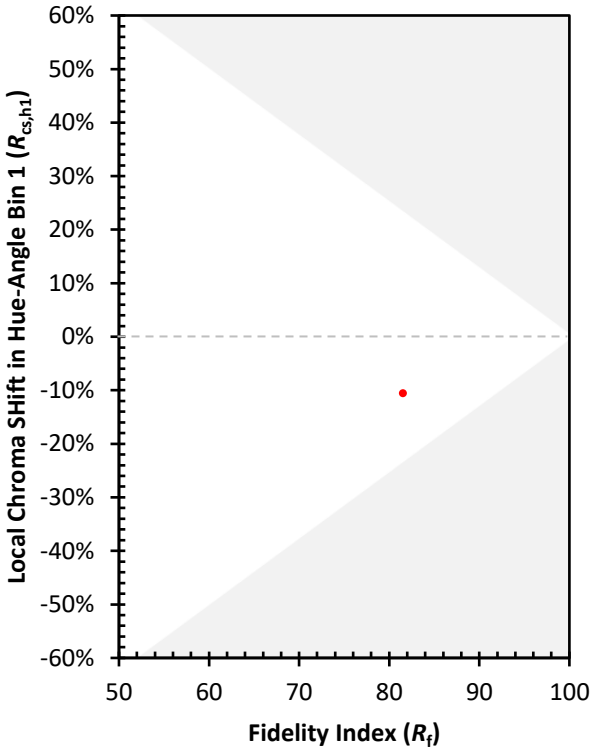
Measure Comparisons





(END OF REPORT)