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: P629066

Luminaire Tested: GWS-SA1A-830-U-SL2-W-GRSBK

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:	P629066
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1326.5 lumens
Efficiency:	N/A
Efficacy:	67.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	19.7
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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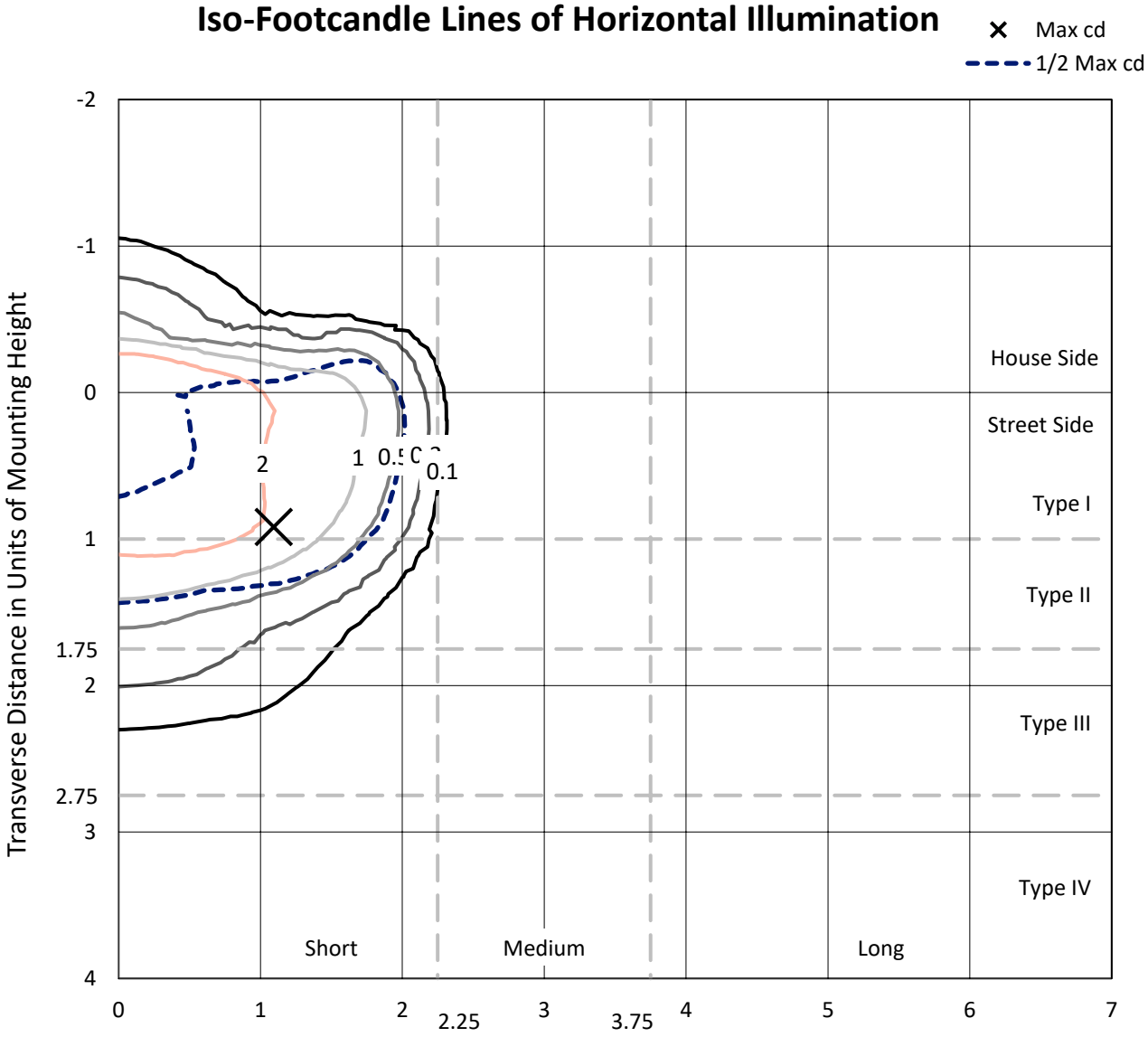
REPORT NUMBER: P629066
CATALOG NUMBER: GWS-SA1A-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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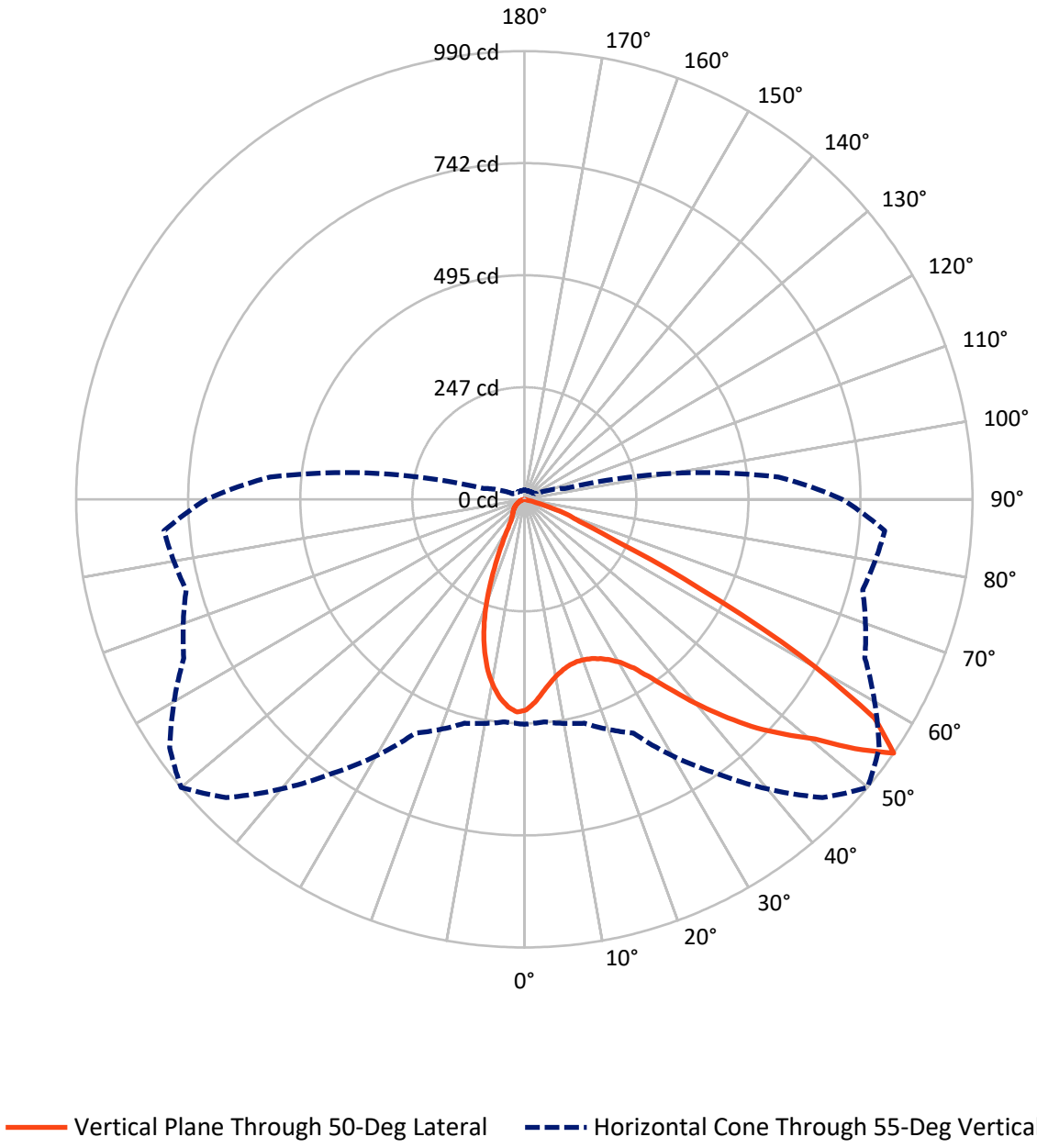
Luminous Intensity Polar Plot



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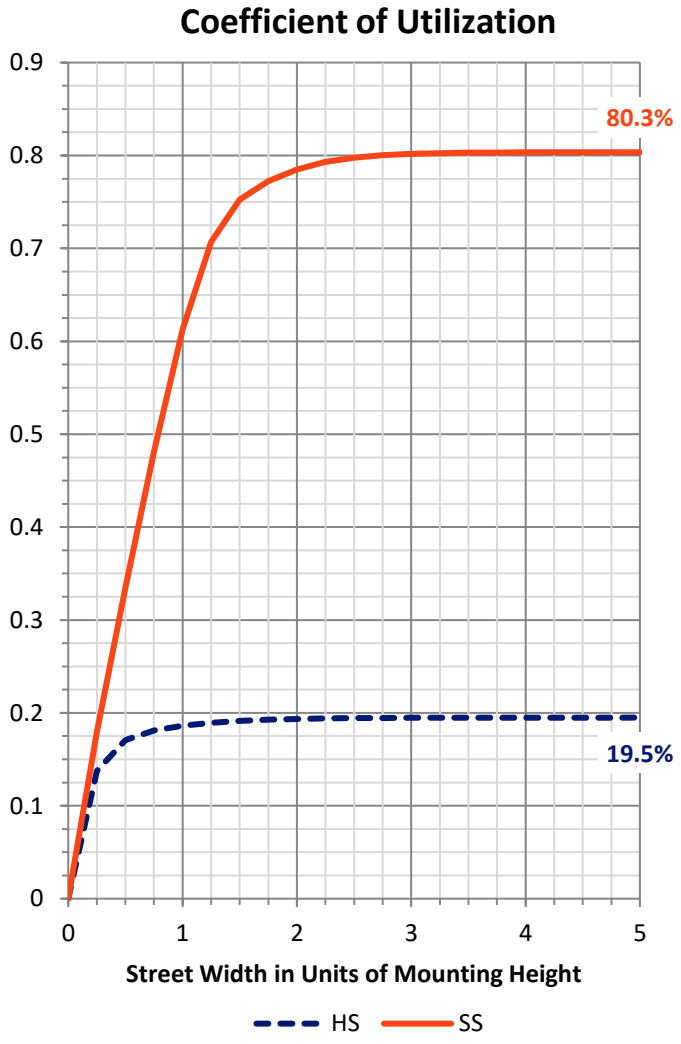
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.4	0.0	261.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	1065.1	0.0	1065.1
	% Fixture	80.3	0.0	80.3
Total	Lumens	1326.5	0.0	1326.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.1
10°-20°	100.6	7.6
20°-30°	141.9	10.7
30°-40°	209.9	15.8
40°-50°	302.9	22.8
50°-60°	357.3	26.9
60°-70°	159.4	12.0
70°-80°	13.7	1.0
80°-90°	0.0	0.0
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°	1326.5	100.0
0°-180°	1326.5	100.0



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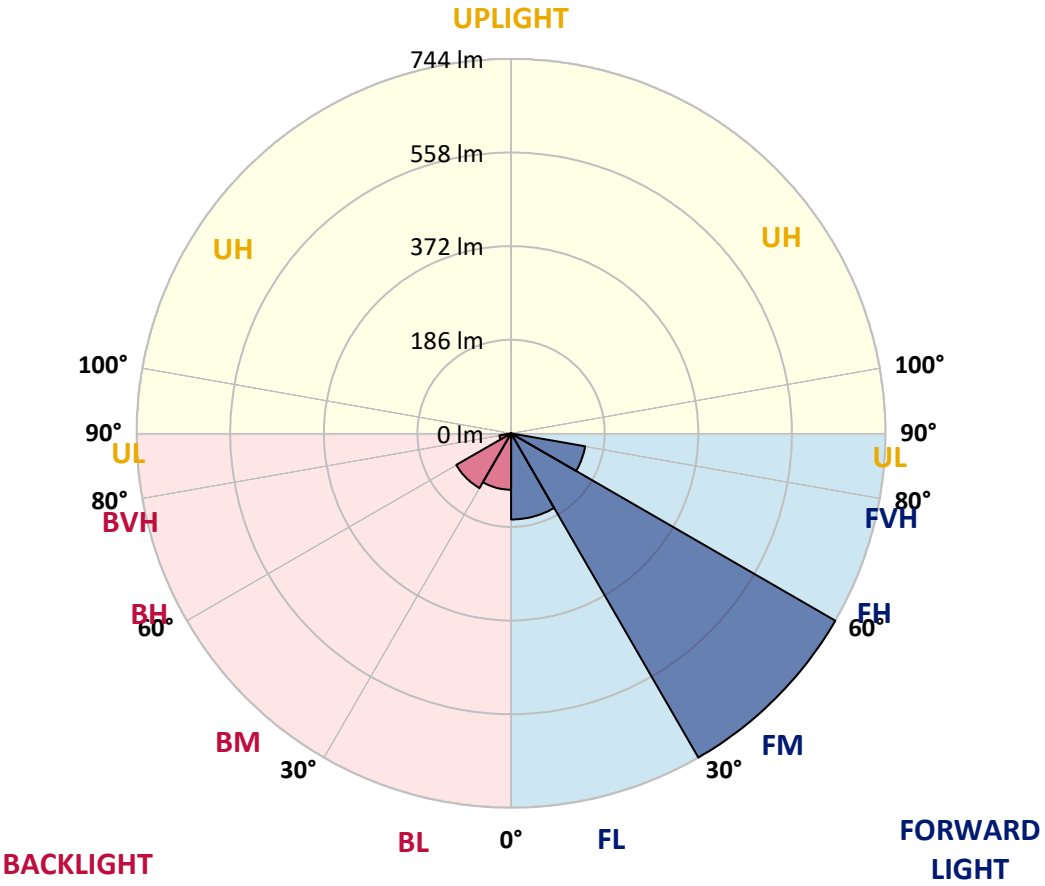
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	171.3	12.9			
FM	(30°-60°)	744.4	56.1			
FH	(60°-80°)	149.5	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	112.1	8.4	B1/500		
BM	(30°-60°)	125.7	9.5	B0/220		
BH	(60°-80°)	23.6	1.8	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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REPORT NUMBER: P629066
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4
2.5°	432.4	432.7	432.9	437.2	438.9	445.3	448.7	450.5	455.2	460.7	465.2
5°	403.4	402.9	403.7	409.2	412.8	422.3	427.5	431.1	441.4	454.4	465.2
7.5°	378.1	379.1	380.1	386.1	391.4	401.8	409.2	414.6	429.0	448.2	466.5
10°	360.3	360.3	361.8	368.6	374.9	387.7	395.1	401.9	419.1	442.7	468.0
12.5°	347.2	347.4	349.1	356.9	364.2	377.5	385.3	391.9	410.8	437.2	468.3
15°	341.0	340.6	342.0	350.3	358.4	370.8	378.9	385.4	405.0	434.2	469.9
17.5°	339.4	339.1	340.2	348.3	356.6	368.7	376.7	383.1	404.2	435.1	474.8
20°	344.1	343.5	343.0	349.9	357.7	369.7	378.0	385.3	408.1	440.5	482.3
22.5°	355.3	355.3	354.2	357.6	362.7	373.6	382.2	391.7	418.3	451.2	493.3
25°	375.9	374.2	372.1	373.6	372.9	379.7	389.9	403.2	437.6	468.8	506.7
27.5°	399.3	400.8	397.2	397.4	391.7	389.3	401.1	421.2	466.2	493.7	526.6
30°	431.2	430.1	430.3	429.8	416.7	405.2	418.0	444.7	502.3	531.8	552.5
32.5°	456.2	457.8	463.1	466.2	449.1	430.6	444.2	476.6	543.5	575.2	584.3
35°	482.6	485.5	496.3	506.4	492.0	470.8	485.3	518.8	582.2	618.1	620.7
37.5°	510.4	516.3	529.2	546.9	544.6	525.8	539.1	568.6	612.6	644.0	650.8
40°	542.3	548.0	569.2	594.6	600.0	595.8	600.1	617.3	632.7	645.2	663.8
42.5°	577.3	585.1	612.0	646.0	666.1	669.8	659.6	657.8	641.4	632.2	661.0
45°	618.6	627.7	658.1	702.2	734.1	739.1	721.4	698.6	646.9	622.7	652.8
47.5°	664.9	673.5	703.8	756.7	804.2	806.1	775.4	738.6	663.3	633.7	659.1
50°	680.5	685.8	712.0	774.2	861.7	876.6	832.0	783.6	696.2	666.1	689.9
52.5°	627.0	629.1	652.0	714.8	850.0	945.7	914.8	850.8	754.6	715.4	737.3
55°	496.8	493.4	511.9	569.5	738.8	931.6	989.8	956.4	829.9	773.4	799.0
57.5°	347.5	343.5	339.3	378.3	551.2	789.8	912.0	971.1	901.7	830.9	865.6
60°	285.7	281.8	261.4	243.4	333.3	567.1	700.5	811.8	895.8	828.0	863.5
62.5°	246.8	244.5	236.3	211.8	196.1	323.7	438.7	545.2	687.4	650.2	652.1
65°	193.8	193.2	198.9	201.5	173.4	179.1	223.8	283.4	371.6	350.4	332.3
67.5°	132.5	131.0	141.7	174.2	166.8	141.4	131.0	132.1	160.8	98.3	78.1
70°	84.2	80.8	81.0	108.0	135.7	111.6	101.0	88.9	80.0	14.6	16.5
72.5°	53.9	51.8	44.5	48.7	62.8	54.4	54.9	47.3	31.6	7.8	9.1
75°	22.7	20.9	16.0	12.8	12.6	7.9	7.0	6.5	4.4	4.4	4.7
77.5°	0.2	0.0	0.0	0.2	0.3	0.2	0.2	0.3	0.6	1.0	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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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REPORT NUMBER: P629066
CATALOG NUMBER: GWS-SA1A-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4	465.4
2.5°	468.0	464.1	468.5	470.1	469.9	470.1	465.4	462.2	462.0	458.0	456.0
5°	469.8	466.7	469.9	467.8	462.8	456.5	448.1	440.8	437.6	432.9	430.6
7.5°	473.2	469.9	469.5	461.0	448.6	435.3	420.4	407.1	400.0	391.4	391.9
10°	475.6	471.9	465.6	448.4	427.7	406.5	384.3	364.5	352.1	340.6	338.6
12.5°	476.6	471.1	456.3	430.4	401.3	373.6	341.0	312.9	293.4	278.4	276.3
15°	478.4	469.5	444.5	408.7	368.7	329.5	288.1	249.5	223.8	206.5	207.9
17.5°	481.1	467.7	431.2	384.4	333.8	278.4	222.3	178.1	154.5	144.4	144.6
20°	485.0	465.6	416.7	357.7	291.8	220.6	155.5	122.1	115.5	115.1	114.7
22.5°	490.2	463.5	401.1	328.4	242.1	154.5	103.5	93.1	95.9	101.2	102.2
25°	496.3	460.9	383.8	295.4	187.8	101.4	77.6	75.9	82.6	89.7	91.3
27.5°	505.9	459.6	364.0	257.8	131.8	72.7	63.5	64.5	70.4	76.4	77.9
30°	522.1	462.0	342.5	215.7	84.7	58.0	55.1	56.5	59.8	62.8	64.1
32.5°	544.1	469.1	321.6	169.7	60.4	50.4	49.7	50.5	51.8	53.6	54.1
35°	569.9	481.4	300.1	121.5	49.9	46.0	45.3	45.3	46.0	46.3	46.5
37.5°	591.1	494.4	279.8	80.8	44.7	42.6	41.6	41.1	41.0	41.3	41.5
40°	600.3	499.7	257.8	58.8	41.0	39.5	38.1	36.6	36.6	37.7	37.9
42.5°	593.8	493.7	232.4	48.6	38.4	36.3	34.0	32.7	33.4	34.5	34.8
45°	580.1	479.0	204.4	42.9	35.8	33.0	30.4	29.6	30.3	31.7	32.1
47.5°	577.8	469.3	170.8	39.2	33.0	30.3	27.5	26.7	27.5	28.7	29.0
50°	600.3	477.7	133.6	36.0	30.4	27.4	25.1	24.3	24.8	25.4	25.7
52.5°	641.4	509.0	107.9	32.9	27.4	24.5	23.0	22.0	22.0	22.7	22.8
55°	*702.2*	*563.5*	*93.1*	*29.3*	*23.8*	*22.2*	*20.9*	*19.9*	*19.9*	*20.2*	*20.4*
57.5°	772.1	629.6	96.5	24.6	20.9	20.1	18.9	18.1	18.5	18.5	18.5
60°	762.4	624.8	103.3	20.7	18.5	18.1	17.2	16.8	17.7	17.0	16.7
62.5°	561.6	431.6	54.1	17.0	15.9	15.5	14.9	15.5	16.7	14.9	14.3
65°	272.7	208.9	21.7	13.9	13.4	13.1	12.8	13.8	14.4	11.7	11.0
67.5°	64.1	52.1	14.1	11.8	11.2	10.5	10.8	11.0	10.5	7.9	7.6
70°	16.7	16.4	11.0	9.9	8.9	8.3	8.3	8.1	7.0	5.0	4.7
72.5°	9.1	8.9	7.9	7.4	6.2	5.5	5.7	5.0	3.9	2.9	2.8
75°	4.5	4.9	4.5	4.2	3.4	3.1	3.1	2.8	1.9	1.1	1.1
77.5°	1.0	1.1	1.1	1.0	0.8	0.6	0.6	0.8	0.3	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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

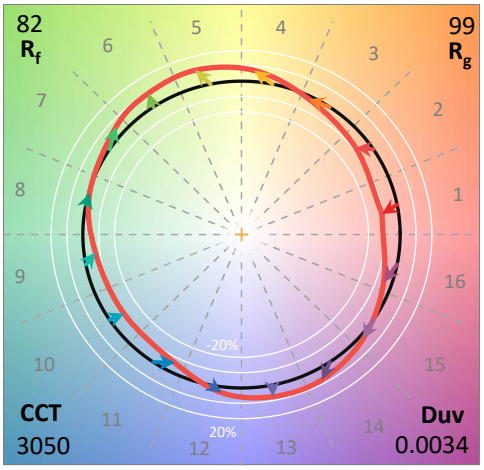
Test Information

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

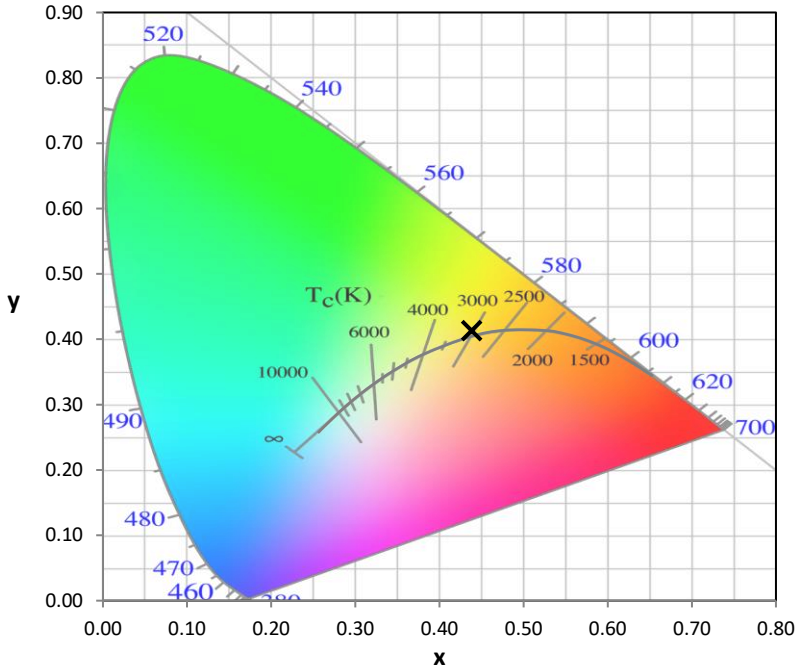
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

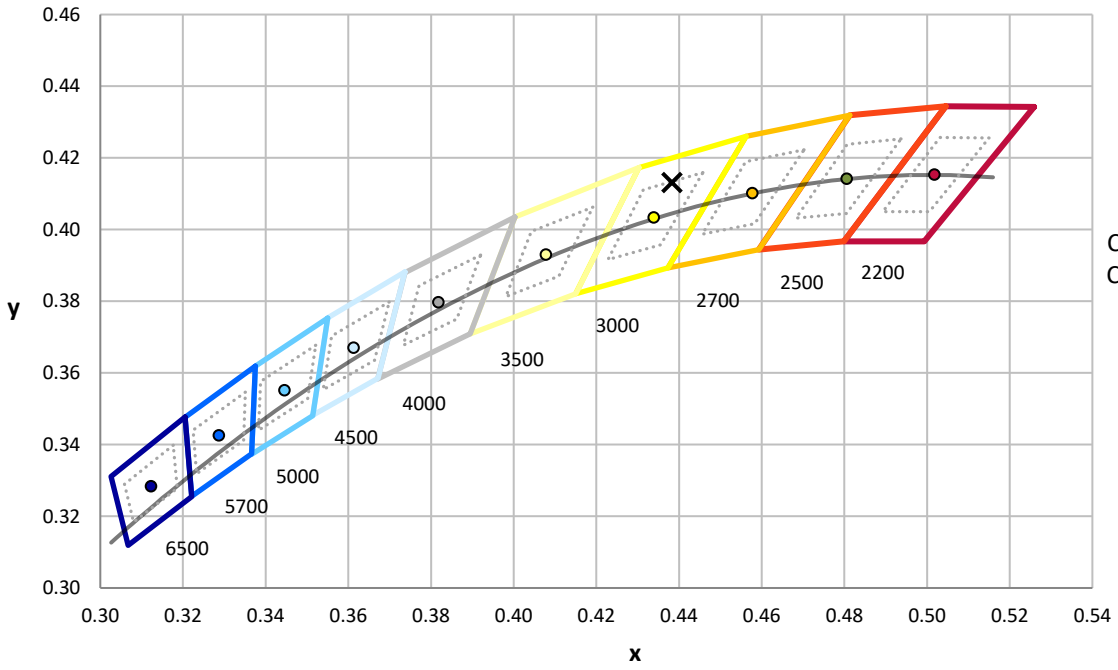
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

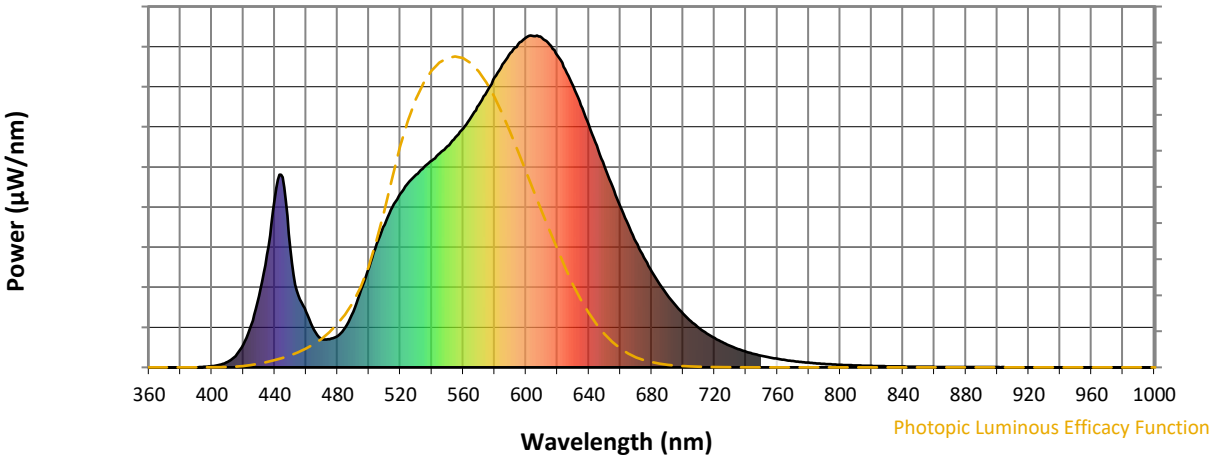


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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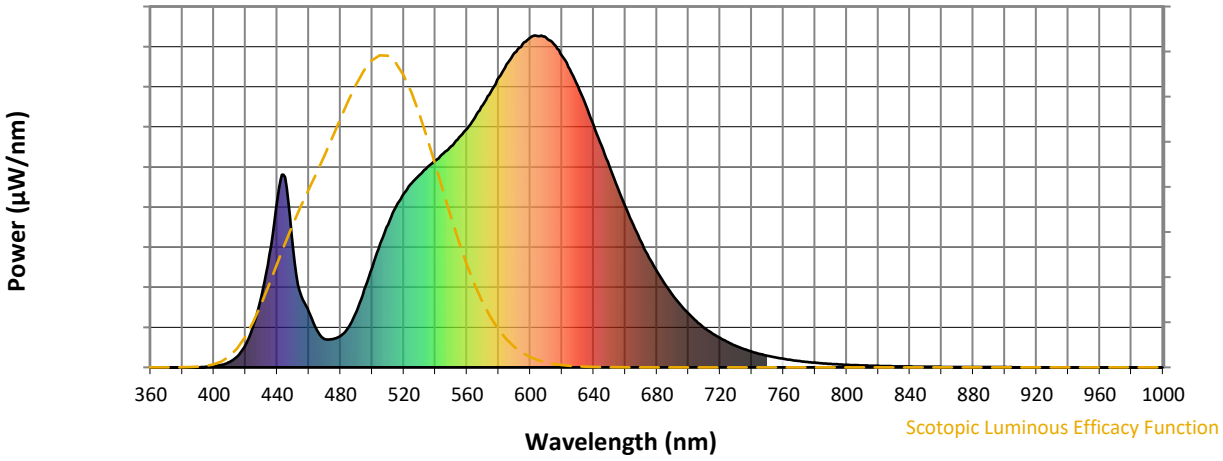
Scotopic Flux vs. Wavelength



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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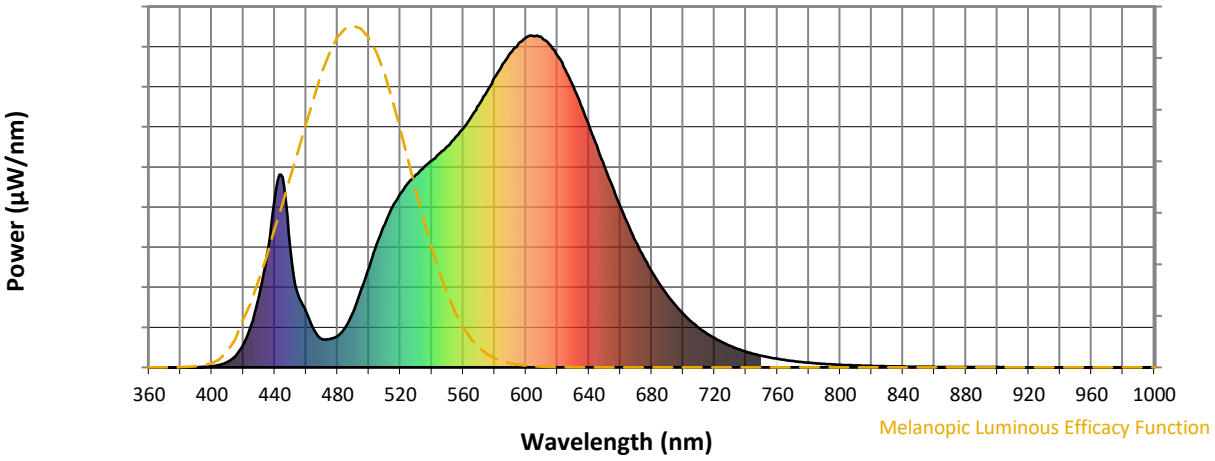
Melanopic Flux vs. Wavelength



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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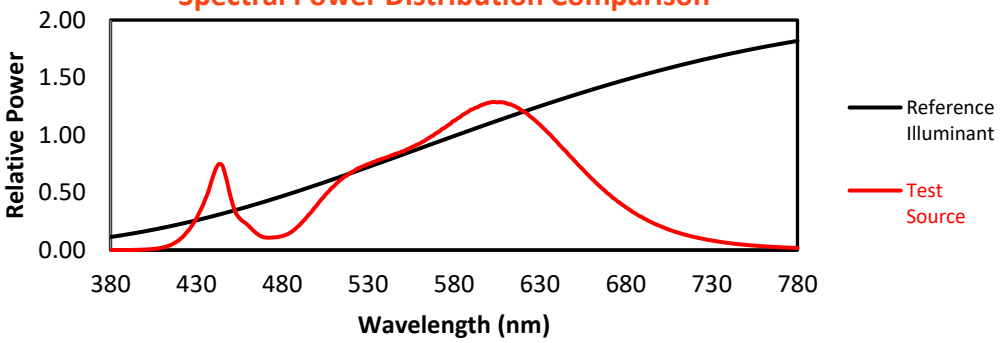
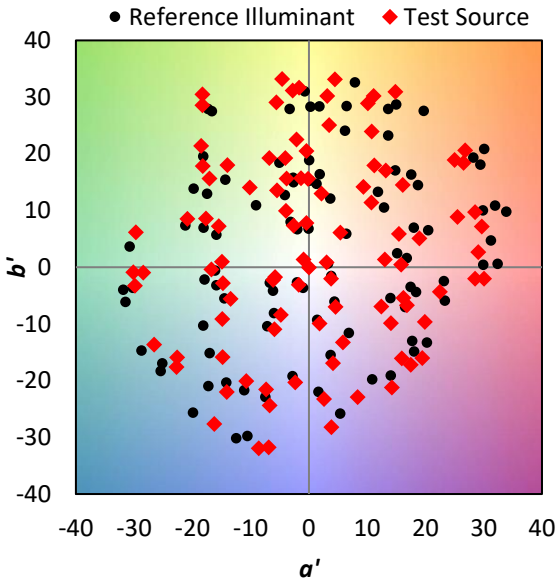
Summary

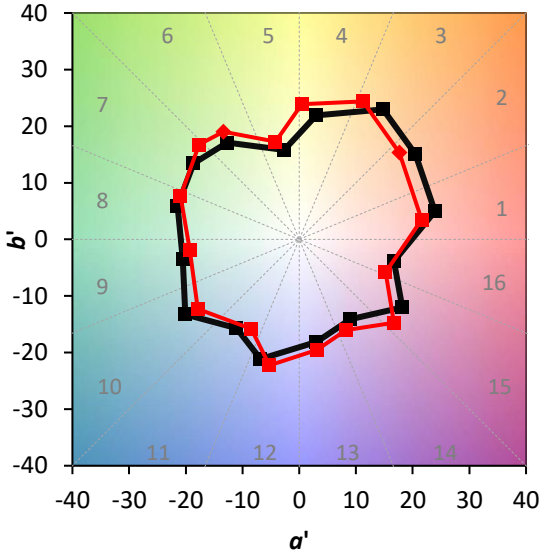
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

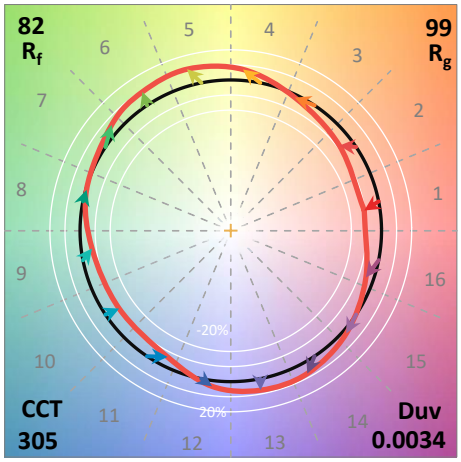
Spectral Power Distribution Comparison

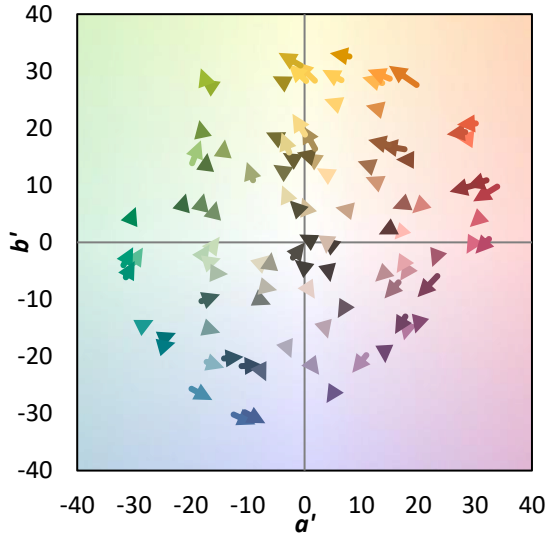


Color Vector Graphics









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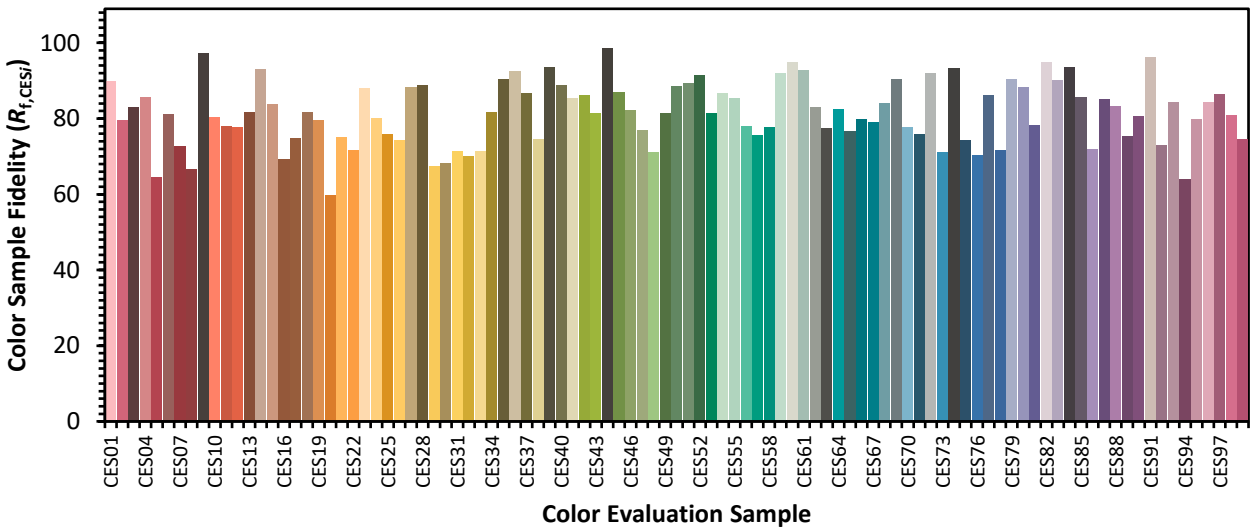
Individual Sample Fidelity Index ($R_{f,i}$)

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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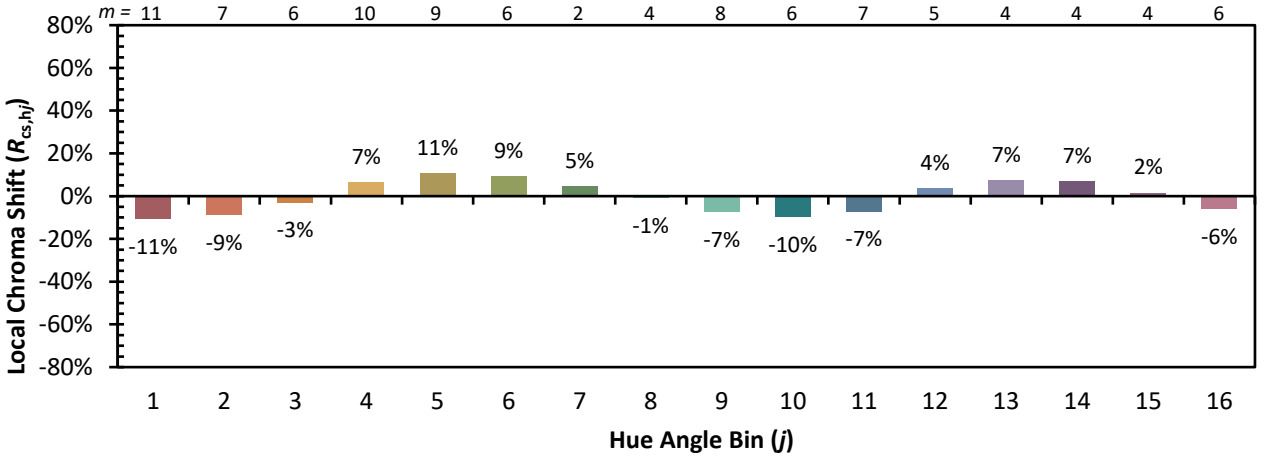
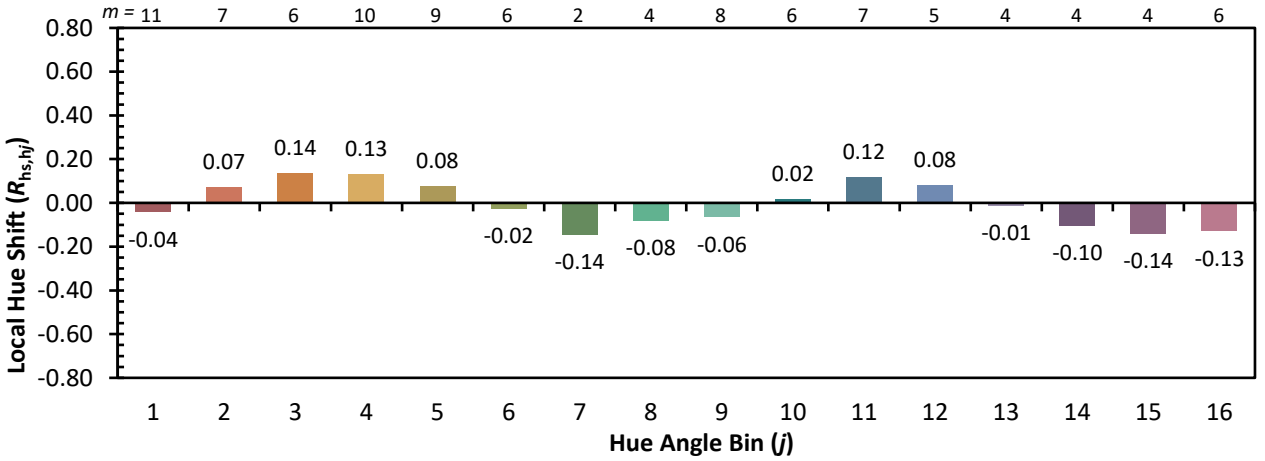
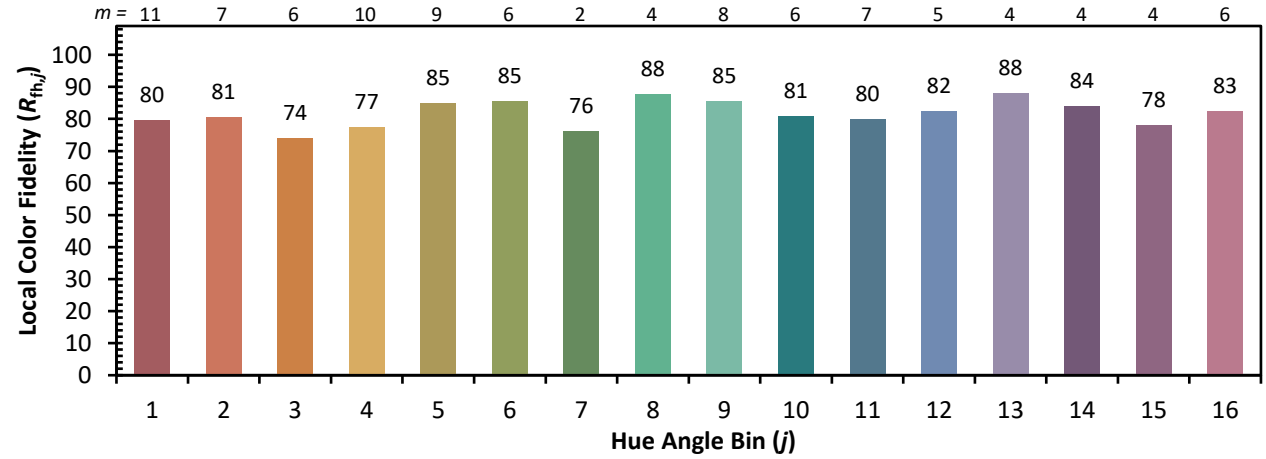
Color Rendition by Hue-Angle Bin







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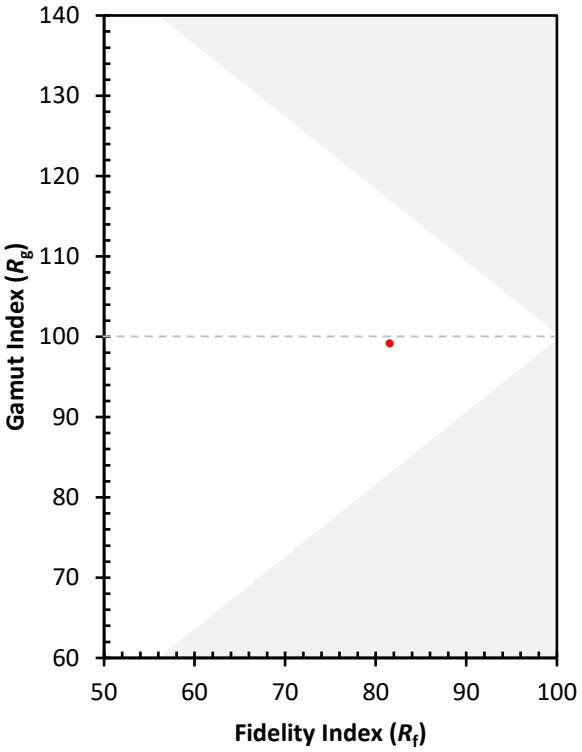
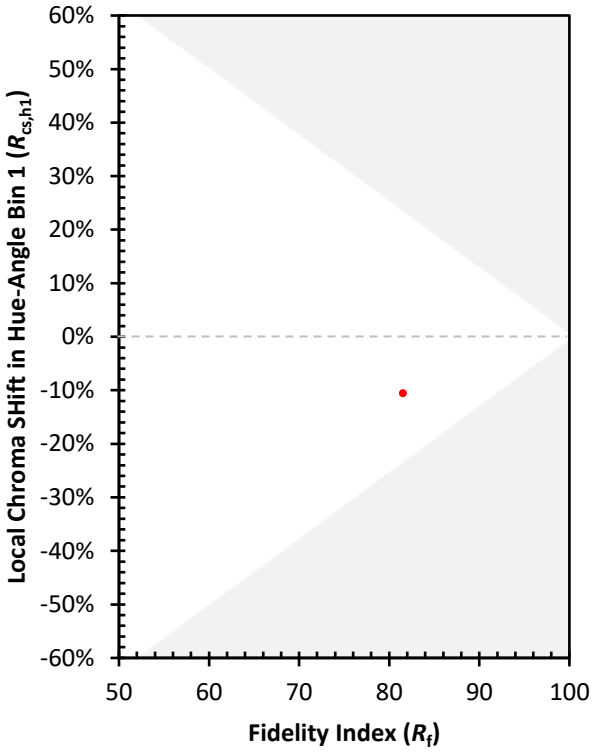
Measure Comparisons





(END OF REPORT)