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: P629558

Luminaire Tested: GWS-SA1B-830-U-RW-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:	P629558
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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:	1845.3 lumens
Efficiency:	N/A
Efficacy:	73.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	25
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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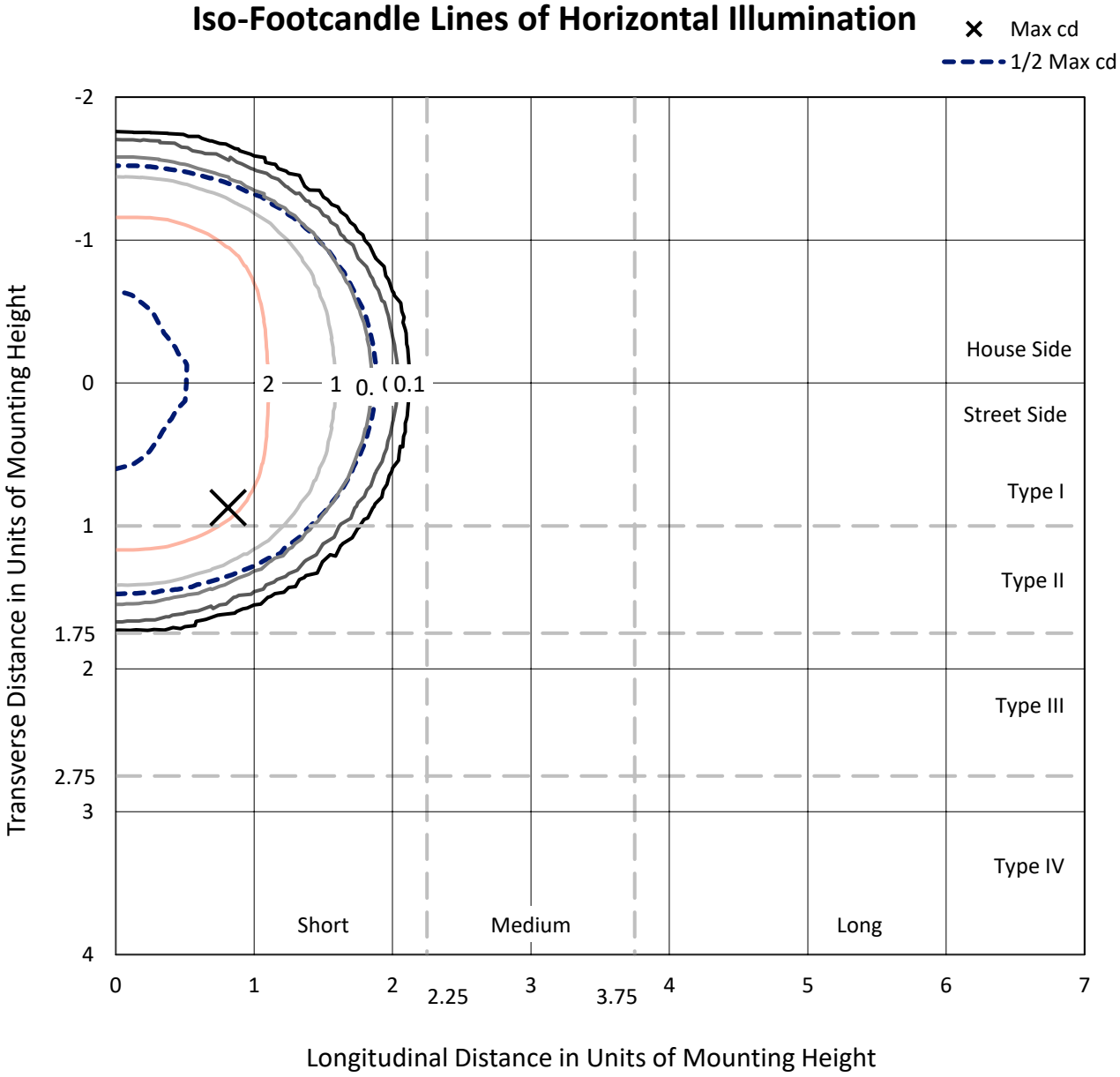
REPORT NUMBER: P629558
CATALOG NUMBER: GWS-SA1B-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Short - N/A

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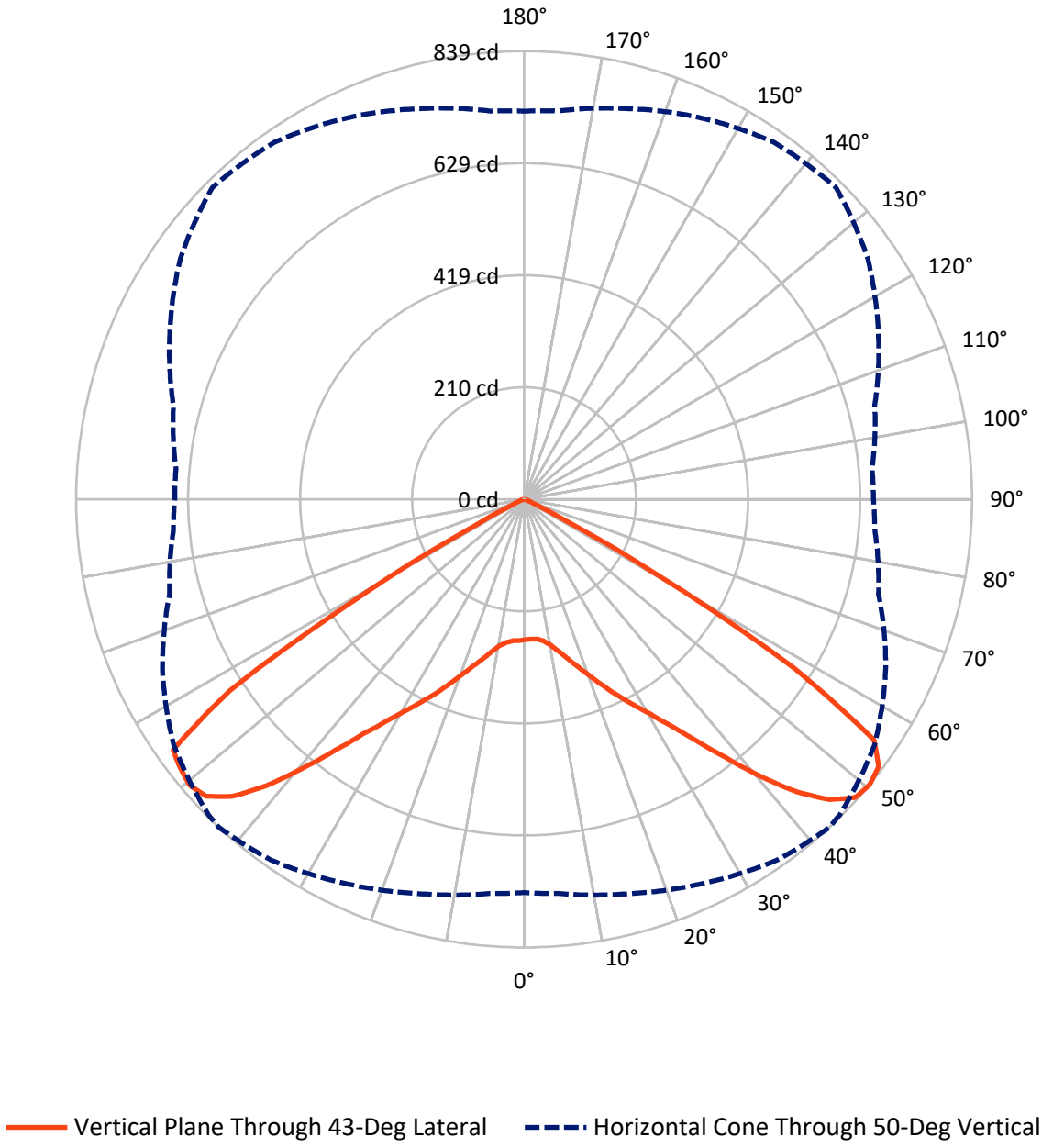
Luminous Intensity Polar Plot



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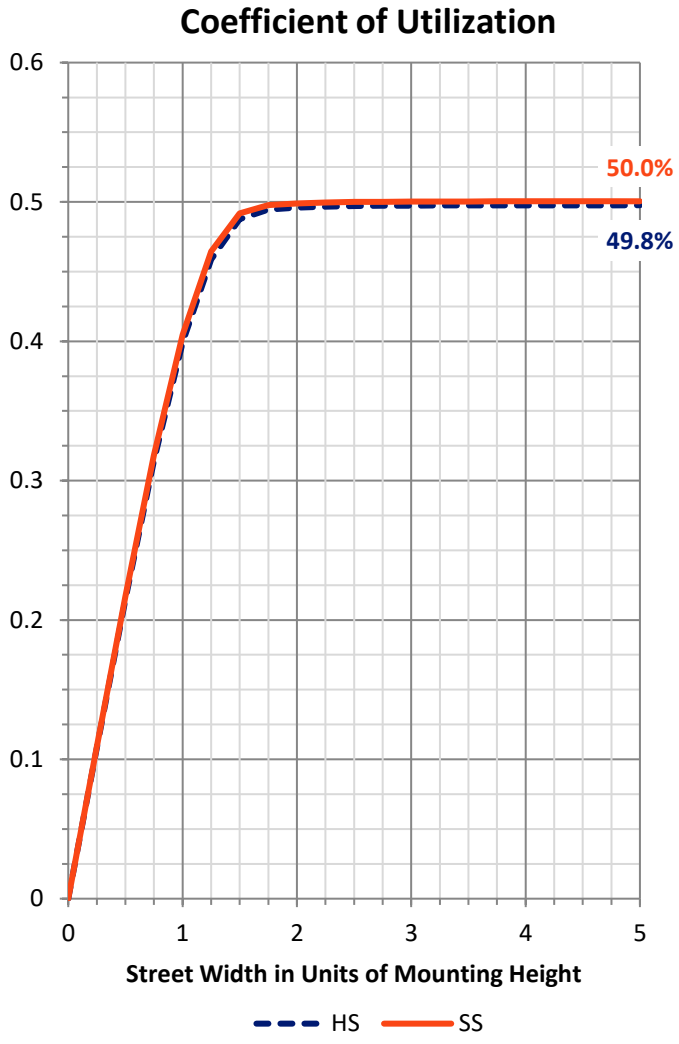
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	922.6	0.0	922.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	922.7	0.0	922.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	1845.3	0.0	1845.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	1.4
10°-20°	88.9	4.8
20°-30°	180.0	9.8
30°-40°	333.9	18.1
40°-50°	554.2	30.0
50°-60°	565.6	30.7
60°-70°	92.7	5.0
70°-80°	4.1	0.2
80°-90°	0.1	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°	1845.3	100.0
0°-180°	1845.3	100.0



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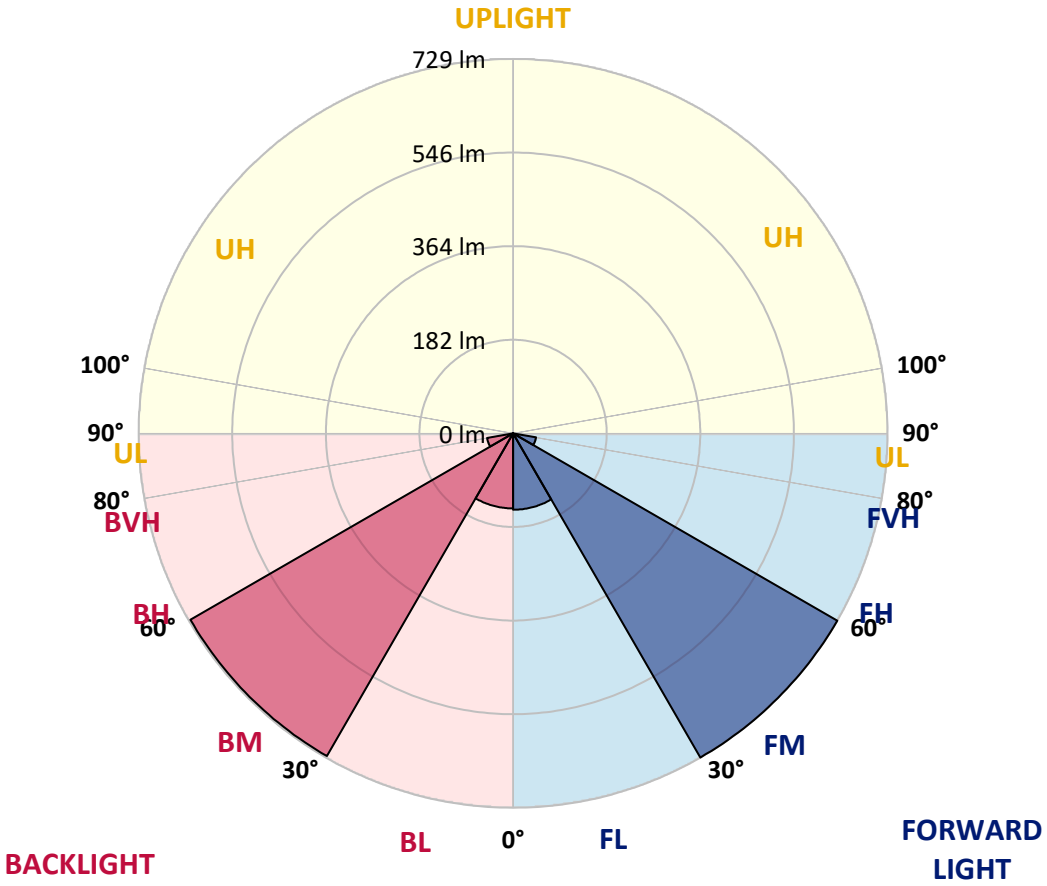
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	148.7	8.1			
FM	(30°-60°)	728.6	39.5			
FH	(60°-80°)	45.4	2.5			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	146.1	7.9	B1/500		
BM	(30°-60°)	725.1	39.3	B1/1000		
BH	(60°-80°)	51.4	2.8	B0/110		G0/660
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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	257.6	258.2	259.0	259.8	260.8	261.9	262.5	264.3	263.9	265.5	265.5
5°	254.7	255.3	256.3	258.2	260.4	262.7	264.3	268.0	270.0	273.3	274.5
7.5°	256.1	257.0	258.2	261.0	264.5	268.0	269.8	275.7	279.8	285.9	289.4
10°	260.8	261.6	263.7	268.6	273.1	278.0	280.2	287.8	294.3	302.7	307.6
12.5°	266.1	267.2	271.2	278.6	286.3	292.9	295.9	304.3	311.0	320.4	328.2
15°	271.6	273.3	279.6	290.4	301.4	310.2	313.5	322.5	329.2	339.2	348.0
17.5°	284.5	286.3	293.5	305.1	320.2	330.4	333.3	342.7	347.8	354.5	363.7
20°	300.6	304.1	312.9	327.0	343.5	353.3	355.3	364.5	364.1	367.0	374.9
22.5°	320.6	323.1	332.7	349.4	368.0	378.8	383.5	387.4	382.3	379.8	384.9
25°	341.4	344.3	354.7	373.1	393.9	406.4	410.2	413.3	405.1	395.9	396.6
27.5°	368.4	370.4	380.6	400.2	421.0	435.1	438.6	443.9	433.1	418.4	414.3
30°	400.4	402.5	413.3	433.9	454.5	466.6	471.9	478.4	466.6	448.2	443.5
32.5°	438.0	440.0	453.9	475.1	492.1	505.1	510.2	517.2	507.8	487.2	481.9
35°	482.9	484.1	500.4	523.5	541.5	554.1	557.6	565.7	555.3	534.7	531.9
37.5°	534.9	536.4	554.1	580.9	599.2	613.3	618.8	621.1	608.4	585.3	583.1
40°	592.1	596.8	614.1	642.9	663.5	681.3	686.2	678.6	660.9	629.4	625.3
42.5°	651.7	655.8	675.1	706.4	730.2	748.4	748.6	732.3	702.1	658.6	652.5
45°	701.3	702.9	728.0	759.4	788.8	801.7	802.9	773.3	727.8	675.6	662.5
47.5°	735.4	738.0	759.8	790.0	822.5	834.1	831.7	794.7	740.0	686.6	664.9
50°	735.8	740.2	763.9	793.1	824.5	838.6	835.2	800.9	747.0	687.0	659.0
52.5°	670.7	678.0	716.6	758.8	807.0	831.1	831.9	808.8	744.3	680.4	653.7
55°	505.9	513.9	562.5	634.5	727.6	794.7	806.4	799.4	741.3	683.3	663.1
57.5°	267.8	261.6	288.6	360.0	477.0	595.8	629.8	685.3	707.2	686.8	680.4
60°	58.4	62.2	82.9	111.6	186.1	280.2	313.5	408.6	521.7	571.9	608.2
62.5°	25.1	24.7	25.7	29.2	42.7	71.0	86.7	141.6	223.5	307.0	363.5
65°	20.6	20.8	21.6	21.6	20.2	20.4	21.4	32.5	52.2	73.3	98.4
67.5°	15.5	15.7	17.1	17.6	16.5	14.7	14.5	12.2	12.9	16.1	16.7
70°	9.8	9.8	10.6	11.0	11.0	10.2	10.0	8.8	8.6	9.8	11.0
72.5°	5.3	5.3	5.7	5.9	5.7	5.5	5.5	5.3	5.1	5.9	7.6
75°	2.2	2.2	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.7	4.1
77.5°	0.4	0.6	0.8	0.6	0.4	0.4	0.4	0.6	0.6	0.8	1.2
80°	0.2	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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: P629558
CATALOG NUMBER: GWS-SA1B-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	267.0	264.7	265.5	265.9	265.3	264.9	262.7	262.1	261.0	259.4	259.0
5°	275.9	274.1	273.9	272.7	269.8	266.3	262.1	260.2	258.2	256.1	255.7
7.5°	291.0	288.8	287.4	283.3	276.8	271.2	264.1	260.2	257.6	254.9	254.3
10°	310.4	307.8	303.7	296.1	287.4	279.4	271.0	265.9	261.9	258.2	258.0
12.5°	331.0	328.2	320.8	311.2	300.6	293.3	282.7	275.5	269.4	263.9	263.3
15°	352.7	349.2	339.2	327.8	318.0	310.4	298.8	287.4	278.0	270.0	269.2
17.5°	369.2	364.9	353.1	344.5	336.6	328.8	315.7	300.6	288.2	278.6	276.3
20°	379.6	375.5	364.3	359.6	355.9	350.4	334.9	319.2	305.3	293.5	291.4
22.5°	389.6	384.7	374.9	374.9	377.8	375.5	358.8	340.8	324.5	310.8	307.8
25°	400.8	397.0	390.0	395.7	402.9	402.7	385.5	363.1	344.3	329.0	325.9
27.5°	417.2	413.3	410.8	421.7	430.6	430.0	411.2	387.0	367.2	352.1	349.2
30°	445.9	442.3	439.6	452.7	464.1	459.8	439.2	415.7	395.7	378.6	376.6
32.5°	484.3	480.4	477.0	490.0	500.2	494.7	475.1	453.1	430.0	413.3	409.2
35°	534.7	526.6	523.1	538.6	542.9	536.8	518.0	498.6	474.1	454.9	452.3
37.5°	586.8	577.2	574.7	588.2	595.1	592.9	570.9	550.6	524.1	502.9	499.8
40°	631.3	622.5	618.2	639.2	654.9	656.4	636.6	611.9	580.6	558.6	553.1
42.5°	657.4	649.8	648.8	681.5	707.2	725.6	701.9	676.4	643.5	618.6	614.1
45°	663.3	658.4	667.0	709.8	749.8	783.3	763.1	736.2	700.7	674.3	670.0
47.5°	662.7	661.1	676.4	724.5	775.1	816.4	806.4	776.0	741.7	714.1	710.0
50°	*653.9*	*654.1*	*679.6*	*731.9*	*785.4*	*825.4*	*815.4*	*787.2*	*756.6*	*729.4*	*726.2*
52.5°	650.4	649.2	673.5	729.6	795.8	821.3	798.8	767.2	733.1	699.6	694.7
55°	662.7	659.6	674.3	727.8	797.0	819.0	759.8	691.3	621.5	581.9	578.6
57.5°	681.1	677.8	684.7	714.3	733.1	681.1	559.2	448.6	376.8	346.3	333.1
60°	608.2	606.0	600.6	564.9	484.5	365.5	249.0	158.8	114.1	92.3	92.3
62.5°	377.4	374.3	345.5	256.8	186.5	108.0	59.4	37.1	28.2	26.3	26.1
65°	105.9	105.3	87.1	61.6	39.2	24.3	21.4	21.8	21.4	20.8	20.6
67.5°	15.9	17.6	17.6	14.3	13.7	15.3	18.0	19.2	18.2	17.1	16.7
70°	10.2	11.0	10.6	9.2	9.8	11.4	12.9	13.1	12.4	11.4	11.2
72.5°	7.1	8.0	6.5	5.9	6.1	6.7	7.3	7.3	7.1	6.7	6.3
75°	4.3	4.3	3.1	2.9	2.9	3.1	3.1	3.5	3.5	3.3	3.1
77.5°	1.4	1.6	1.0	0.8	0.8	0.8	1.0	1.2	1.2	1.0	0.8
80°	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
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

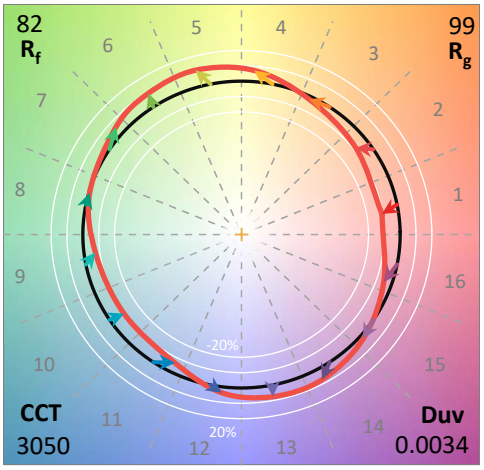
Test Information

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

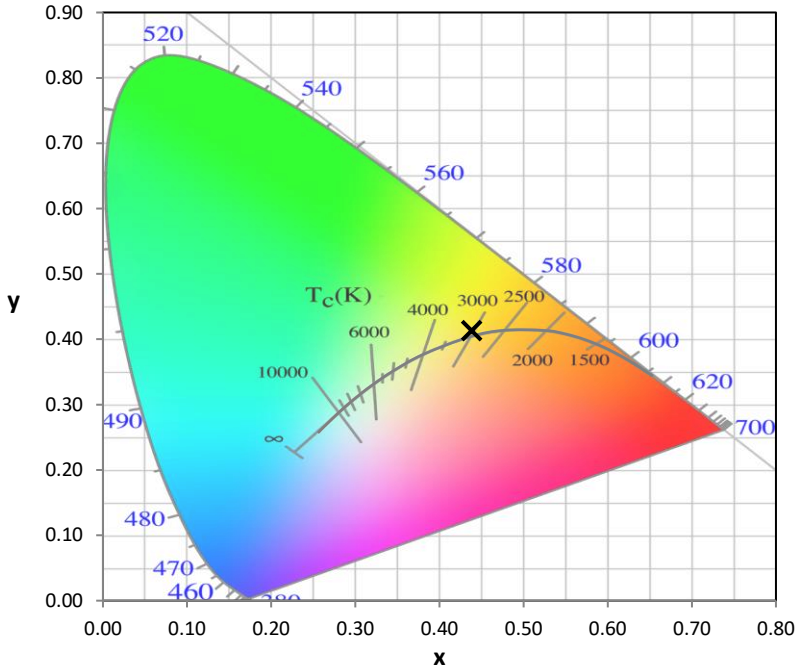
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

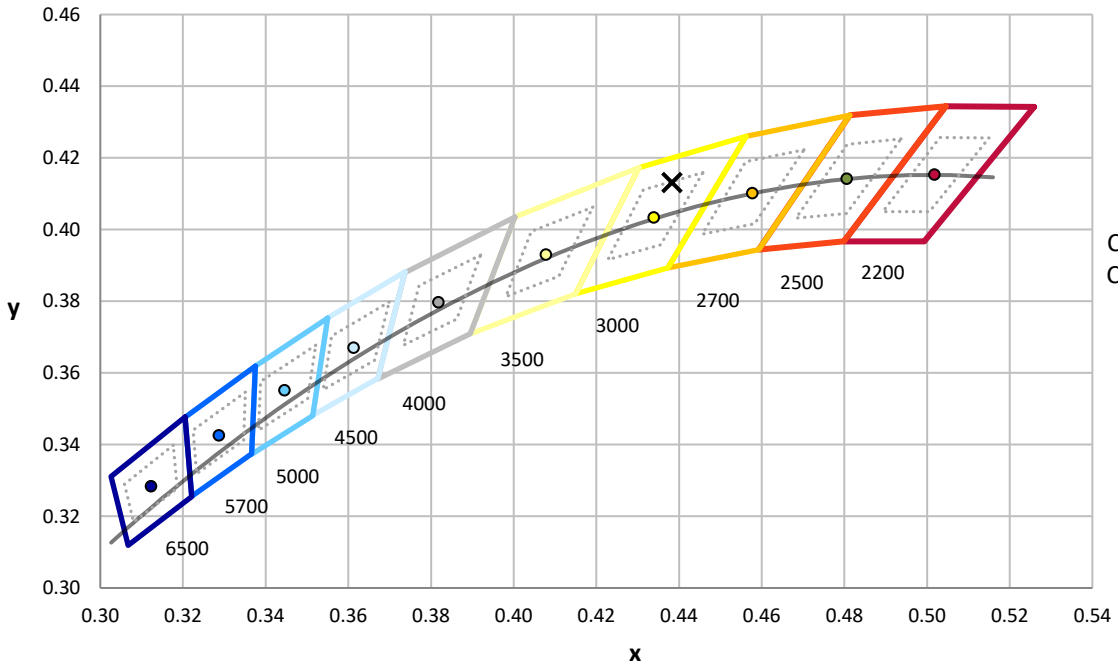
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

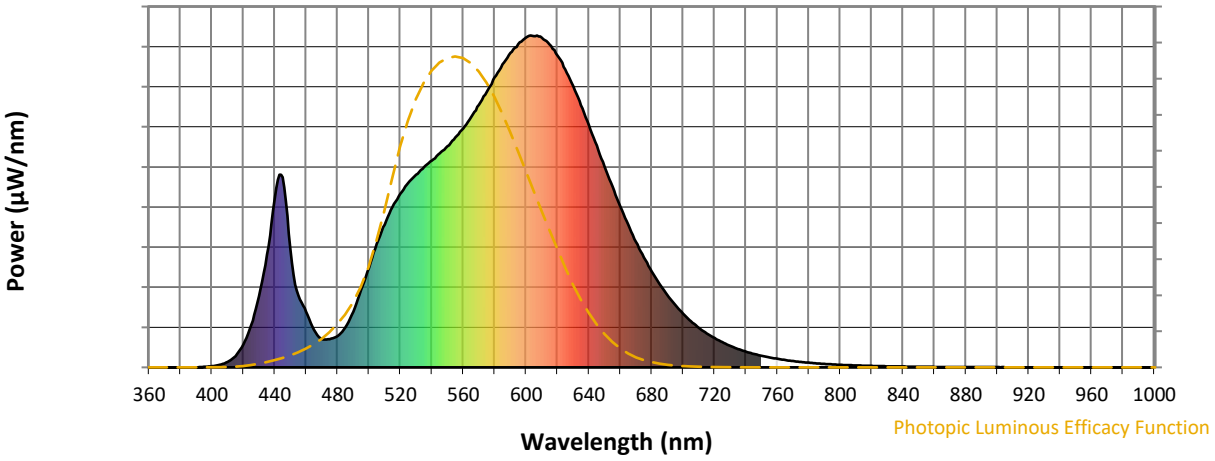


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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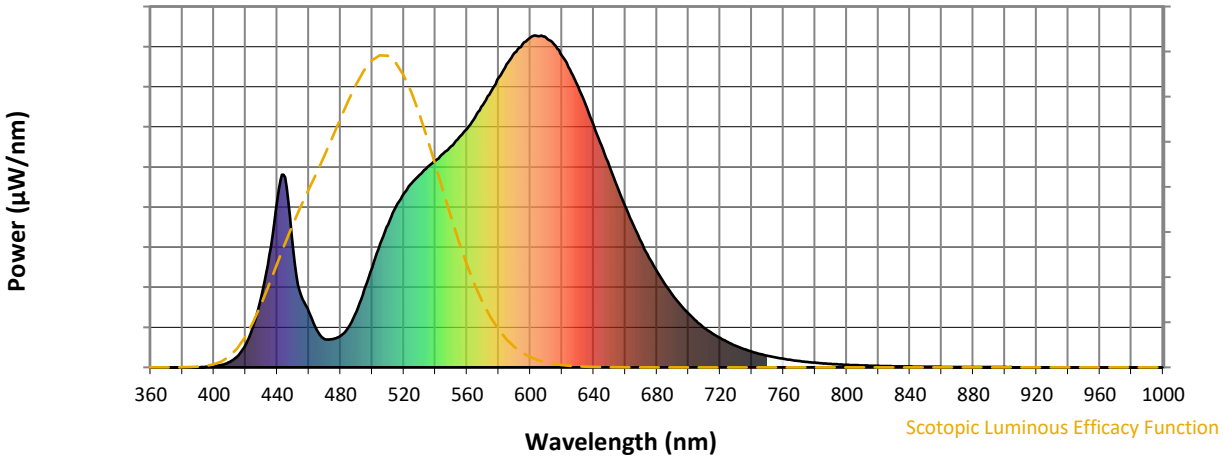
Scotopic Flux vs. Wavelength



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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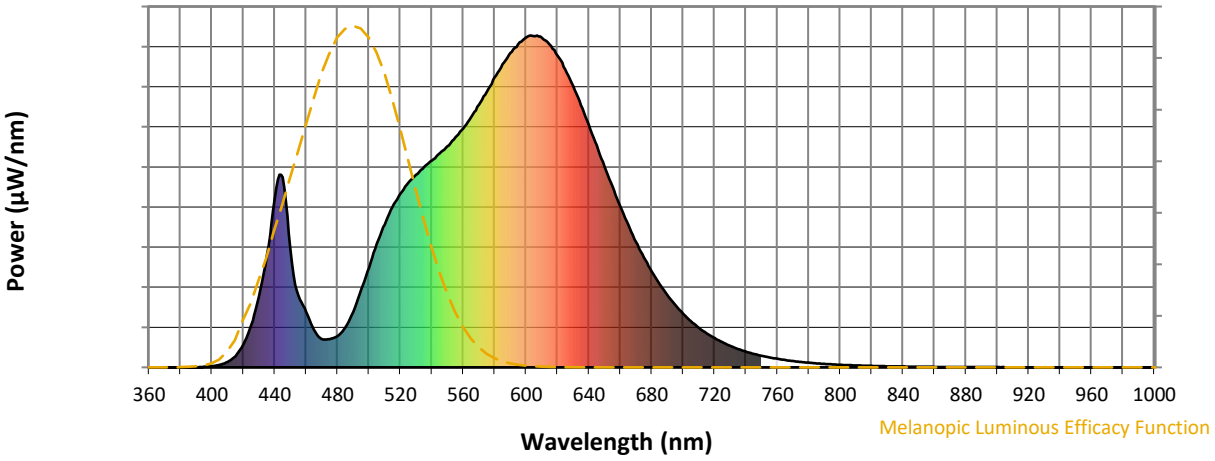
Melanopic Flux vs. Wavelength



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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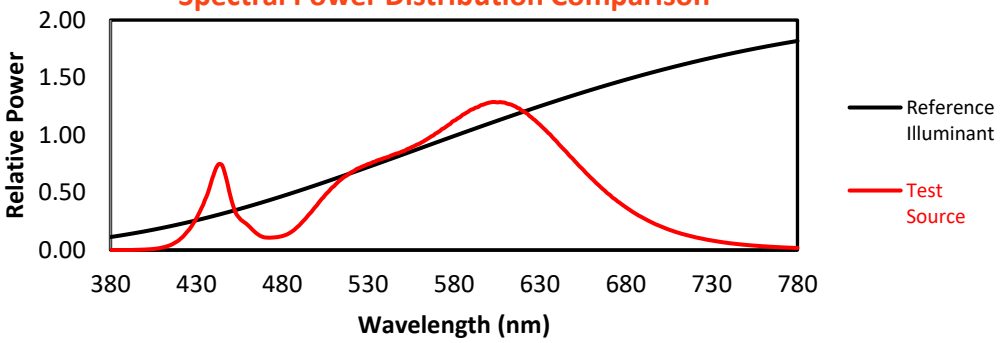
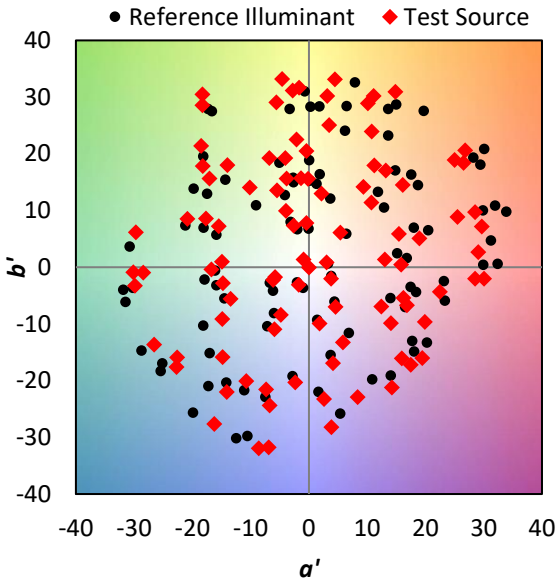
Summary

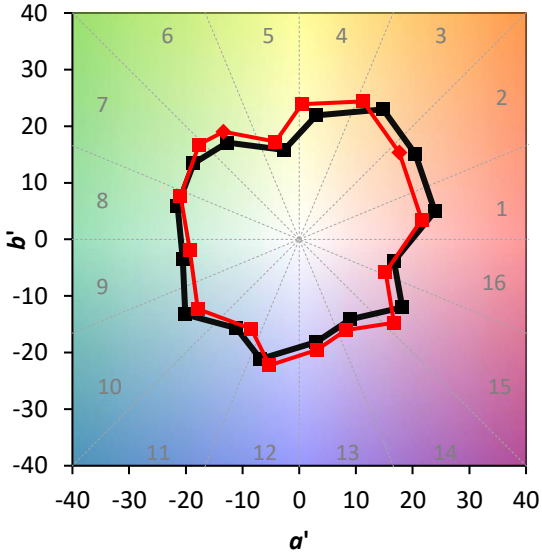
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

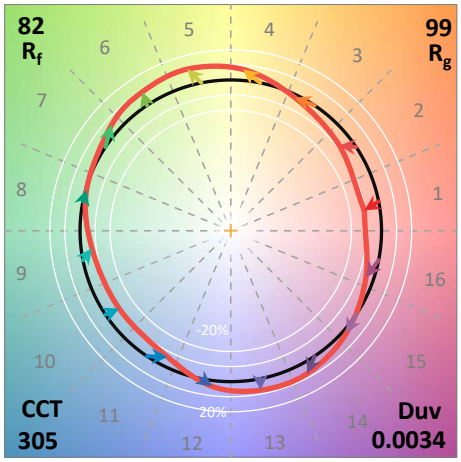
Spectral Power Distribution Comparison

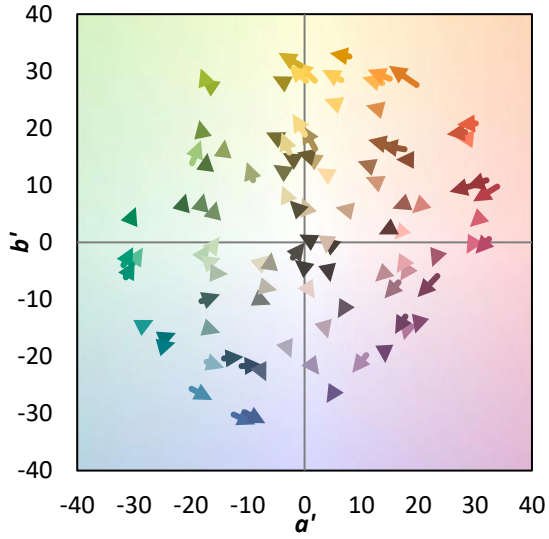


Color Vector Graphics









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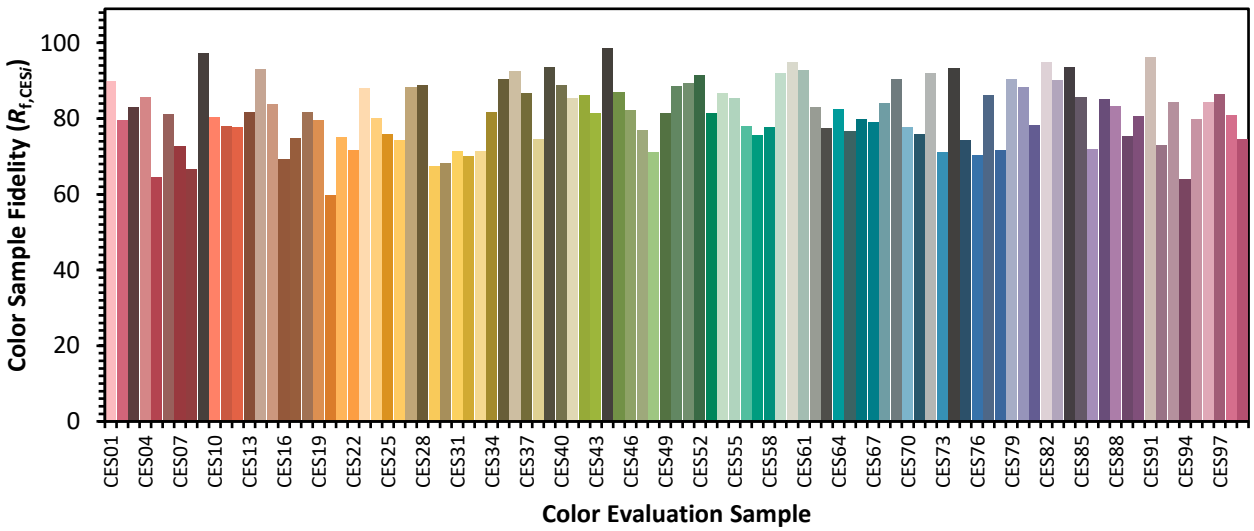
Individual Sample Fidelity Index ($R_{f,i}$)

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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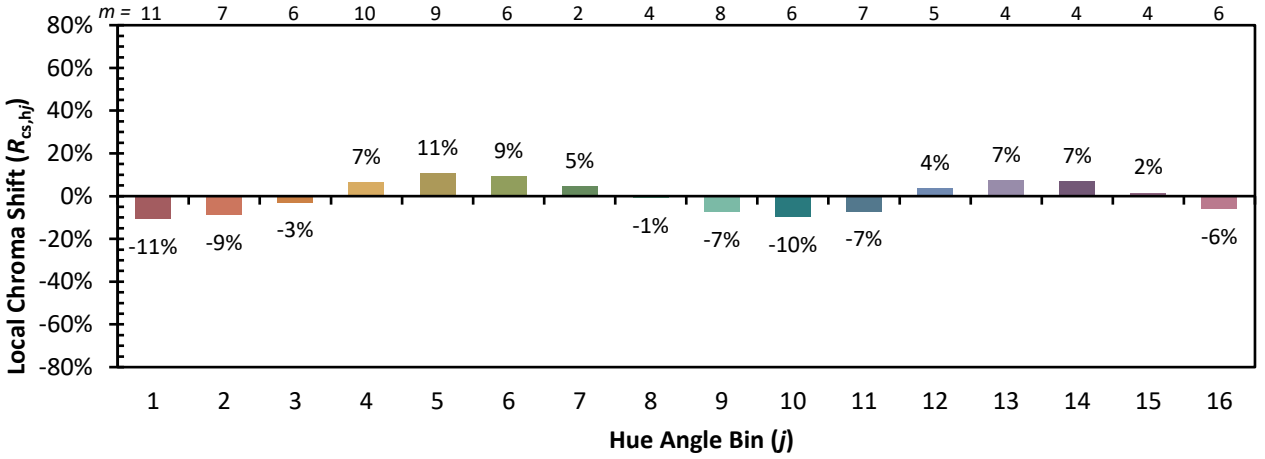
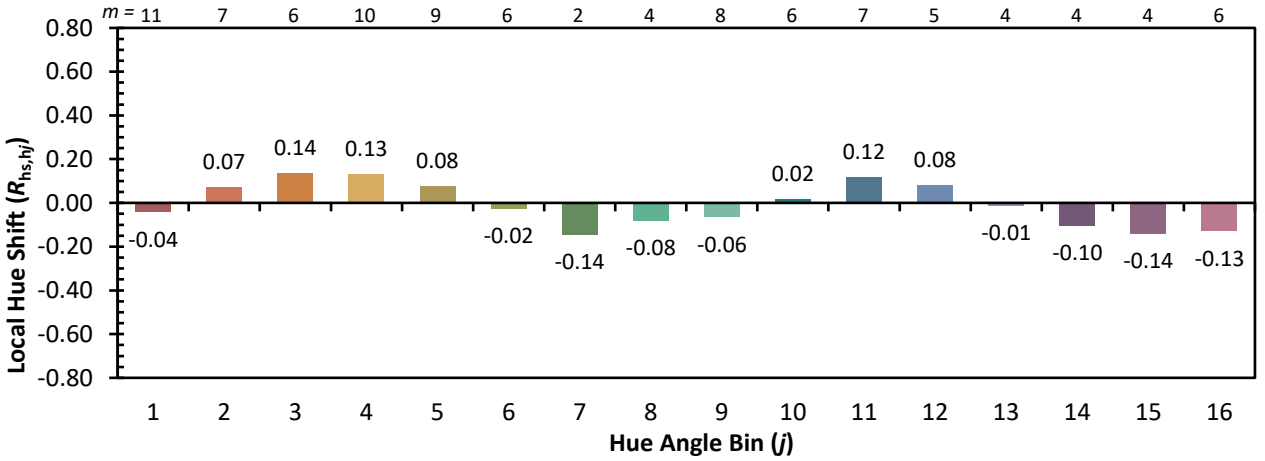
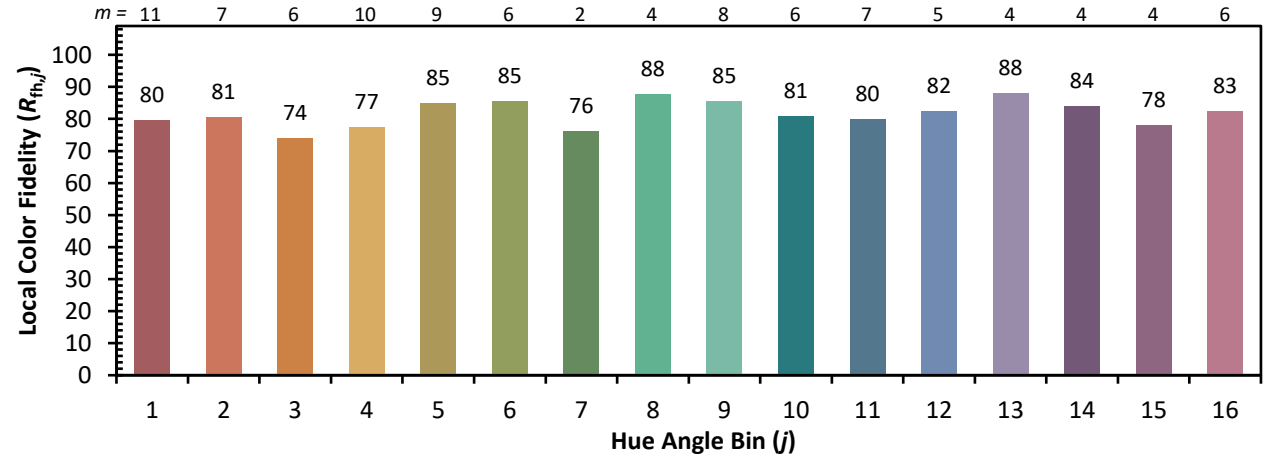
Color Rendition by Hue-Angle Bin







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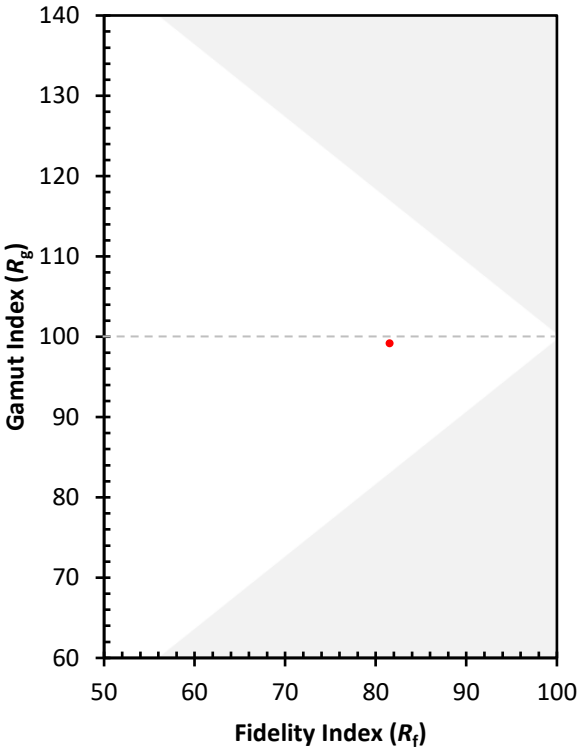
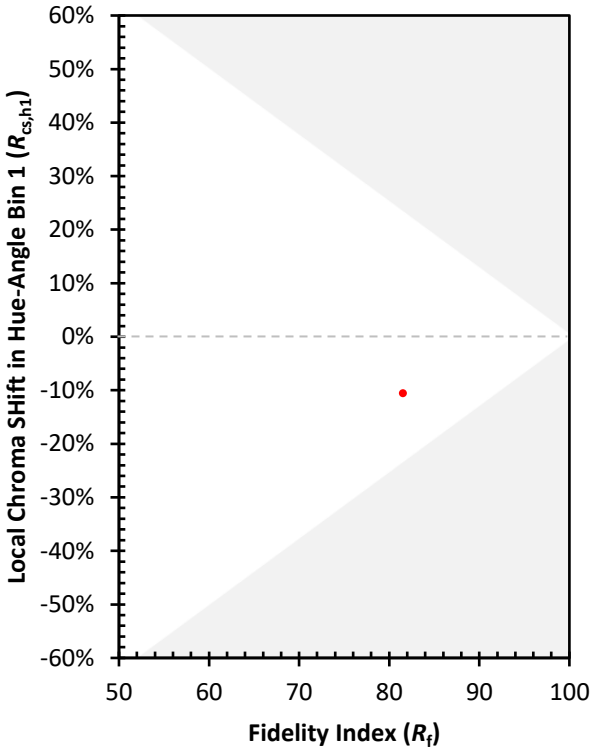
Measure Comparisons





(END OF REPORT)