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: P629086

Luminaire Tested: GWS-SA1A-830-U-T2-W-GRSWH

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:	P629086
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1883.4 lumens
Efficiency:	N/A
Efficacy:	95.6 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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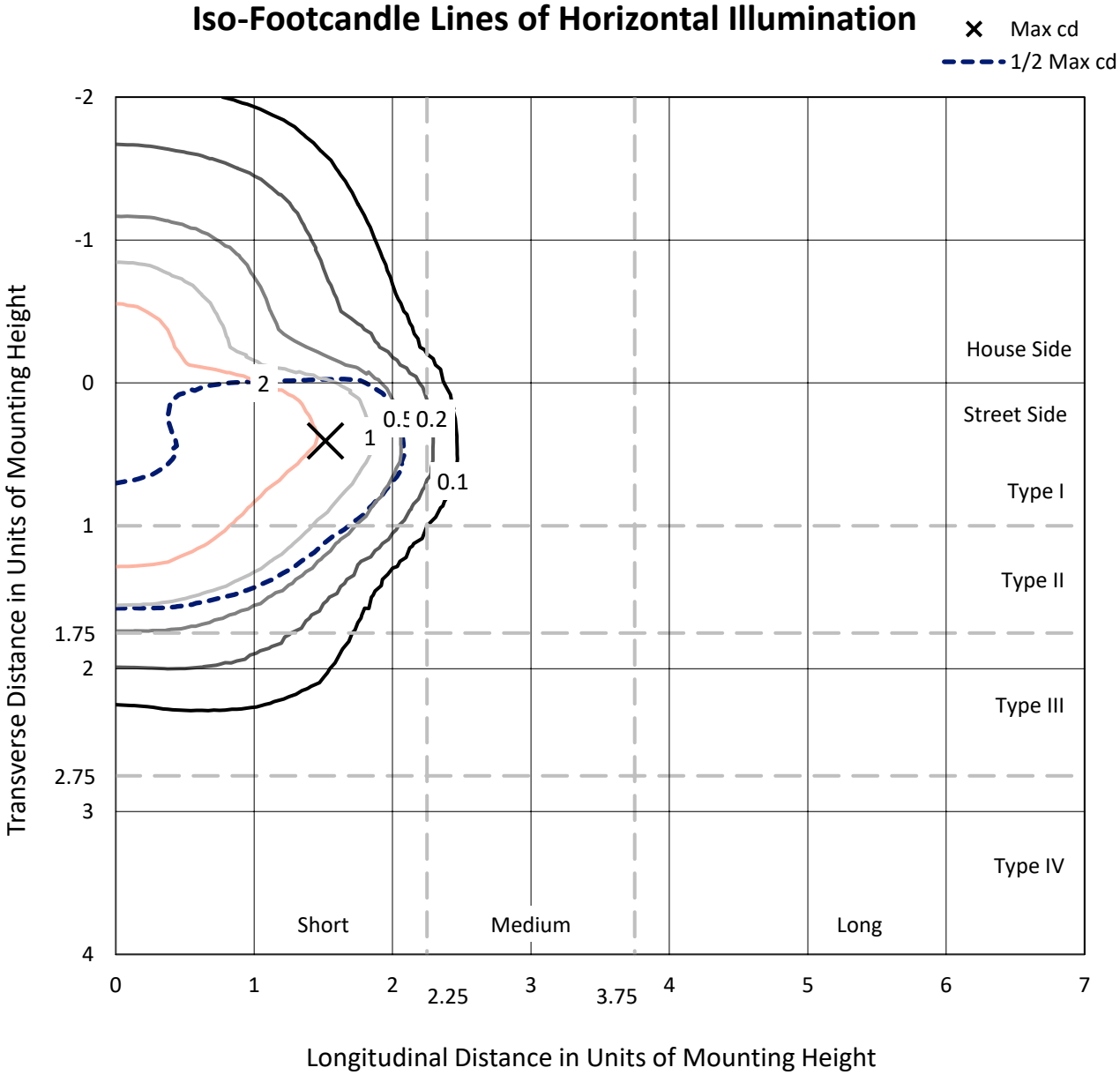
REPORT NUMBER: P629086
CATALOG NUMBER: GWS-SA1A-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type II - Short - N/A

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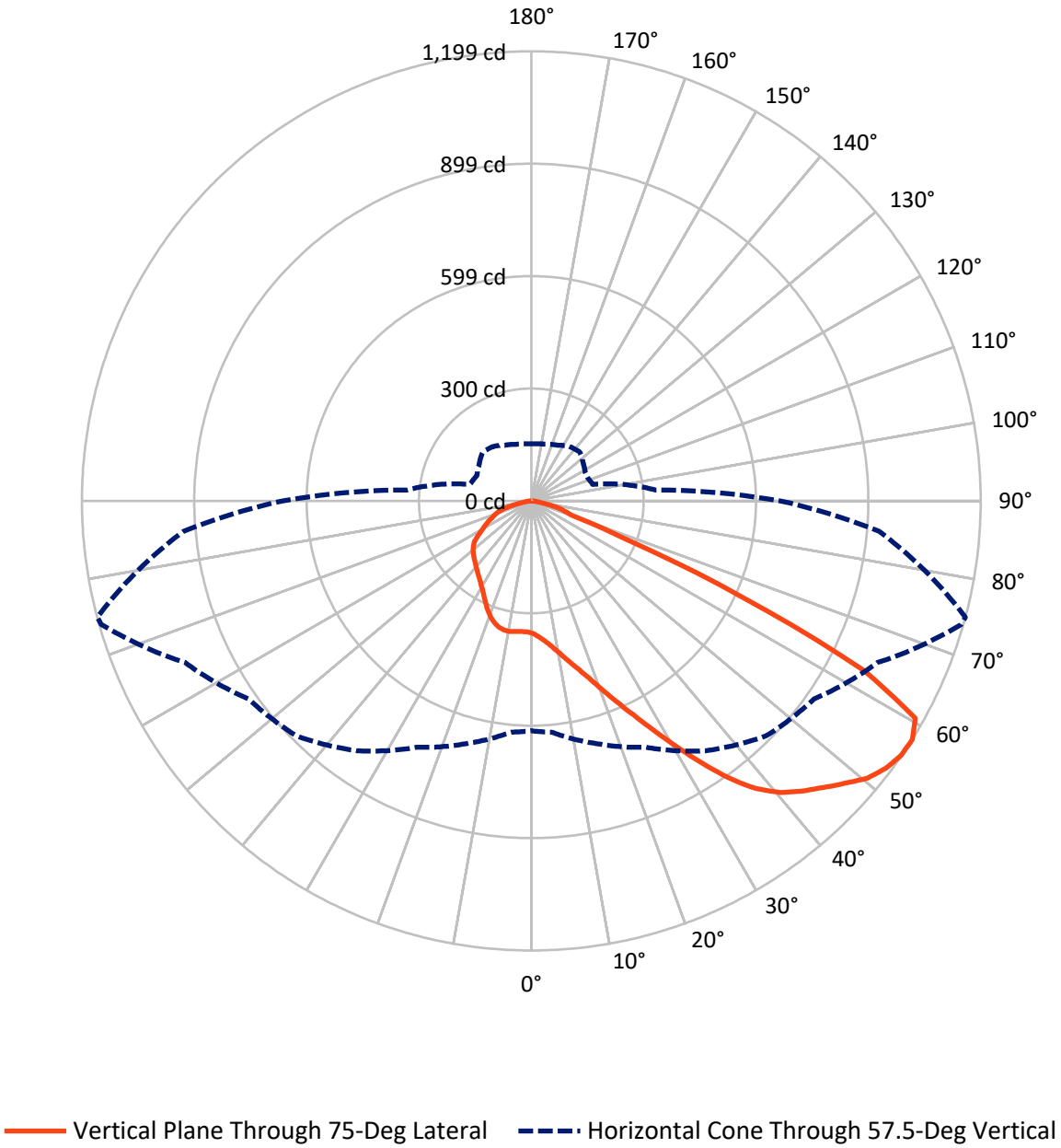
Luminous Intensity Polar Plot



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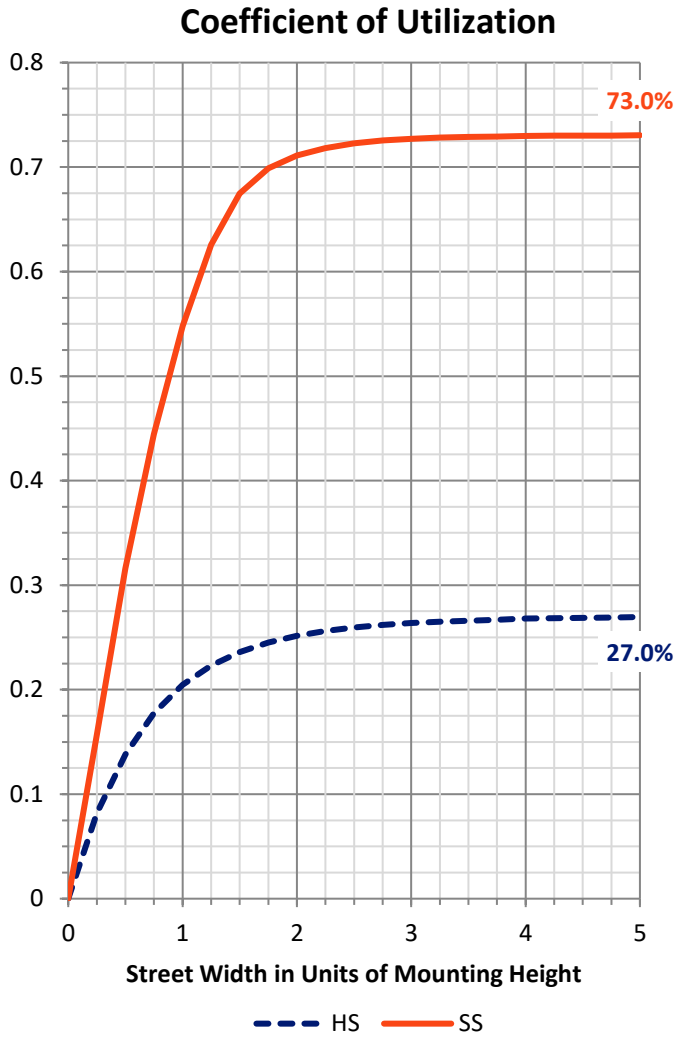
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	509.5	0.0	509.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	1373.9	0.0	1373.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	1883.4	0.0	1883.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.9
10°-20°	112.4	6.0
20°-30°	199.3	10.6
30°-40°	305.1	16.2
40°-50°	424.8	22.6
50°-60°	486.7	25.8
60°-70°	250.1	13.3
70°-80°	63.0	3.3
80°-90°	6.7	0.4
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°	1883.4	100.0
0°-180°	1883.4	100.0



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REPORT NUMBER: P629086
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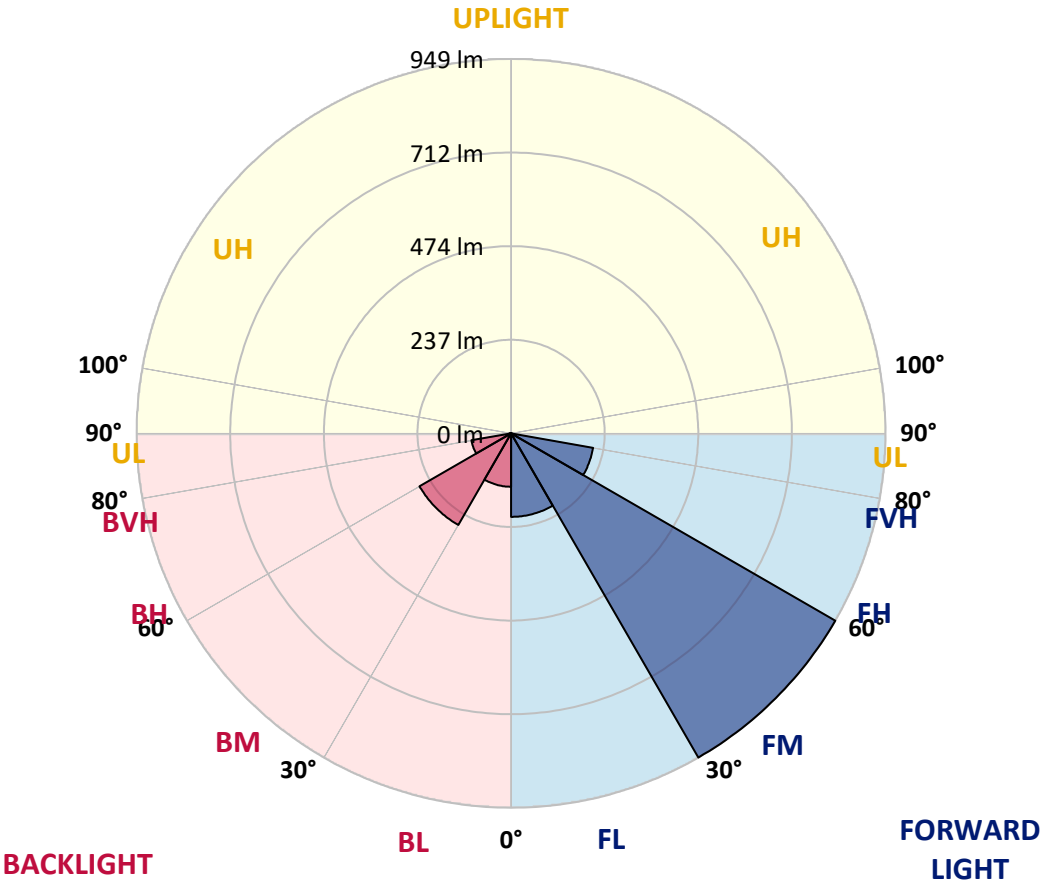
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	211.6	11.2			
FM	(30°-60°)	948.7	50.4			
FH	(60°-80°)	211.1	11.2			G0/660
FVH	(80°-90°)	2.5	0.1			G0/10
BL	(0°-30°)	135.4	7.2	B1/500		
BM	(30°-60°)	267.9	14.2	B1/1000		
BH	(60°-80°)	102.0	5.4	B0/110		G0/110
BVH	(80°-90°)	4.2	0.2			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: P629086
CATALOG NUMBER: GWS-SA1A-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	*352.7*	352.7
2.5°	379.0	379.9	379.0	380.6	377.3	375.9	372.3	367.0	362.8	*362.1*	357.4
5°	408.4	410.5	409.2	408.6	404.2	401.0	395.6	384.9	376.2	*374.9*	365.7
7.5°	427.4	428.8	428.8	429.3	427.7	424.0	418.3	405.7	393.4	*391.4*	377.5
10°	433.7	434.8	436.9	441.0	444.2	445.3	441.6	429.5	414.4	*412.5*	393.0
12.5°	435.1	436.4	439.7	447.1	456.0	464.1	464.8	455.9	439.0	*436.9*	411.0
15°	437.9	439.2	443.6	452.8	465.9	481.5	491.0	484.9	466.2	*464.0*	431.4
17.5°	437.6	439.0	445.5	457.8	475.5	498.0	516.4	519.0	499.8	*495.9*	454.6
20°	436.8	438.1	445.0	460.1	481.9	512.9	546.2	559.7	539.0	*535.4*	481.6
22.5°	443.2	444.7	450.0	462.5	485.3	524.4	573.8	606.2	585.4	*580.4*	512.7
25°	457.8	459.9	463.2	471.7	491.5	534.6	601.9	658.8	637.6	*631.6*	546.6
27.5°	480.3	482.9	487.5	491.5	505.3	547.5	630.0	717.7	696.5	*690.2*	582.4
30°	507.9	511.3	517.1	519.8	529.2	566.6	660.4	778.5	766.2	*757.4*	622.7
32.5°	545.9	550.6	556.1	556.9	562.6	595.6	690.5	838.7	838.5	*832.4*	668.5
35°	595.5	600.5	601.6	602.8	605.5	635.5	727.0	893.6	914.8	*907.7*	718.4
37.5°	649.6	656.8	658.6	653.6	657.5	683.4	767.9	937.7	981.2	*973.6*	766.6
40°	707.4	710.3	715.1	707.2	712.1	738.3	808.1	965.8	1030.8	*1022.7*	804.7
42.5°	748.8	754.2	761.5	758.5	761.3	785.3	836.3	979.4	1066.1	*1058.0*	832.1
45°	793.9	795.5	800.2	799.5	801.1	823.5	856.5	985.4	1097.7	*1090.4*	855.4
47.5°	833.0	835.5	838.5	835.0	831.4	846.0	873.0	990.6	1134.1	*1125.4*	879.8
50°	870.8	872.9	876.6	866.2	853.0	856.7	881.1	997.7	1168.3	*1162.1*	899.1
52.5°	877.7	880.0	897.5	899.6	882.6	869.5	895.4	1013.5	1188.4	*1184.5*	906.1
55°	790.1	794.2	829.0	869.0	910.9	906.7	918.2	1021.7	1196.3	*1197.3*	918.6
57.5°	*613.3*	*619.1*	*670.0*	*724.9*	*813.1*	*886.2*	*921.1*	*1019.6*	*1193.5*	*1198.9*	*931.3*
60°	402.3	405.7	465.9	527.5	619.0	720.0	824.5	981.7	1169.1	*1176.7*	928.1
62.5°	242.9	246.8	295.2	341.9	395.8	463.3	559.2	789.0	979.9	*996.9*	743.3
65°	169.6	174.7	217.2	255.5	274.2	260.2	283.2	440.7	610.5	*617.7*	454.3
67.5°	122.9	126.5	161.3	207.0	227.5	183.8	140.1	195.1	265.9	*268.5*	187.4
70°	80.5	84.5	116.1	157.6	185.8	149.0	104.8	105.6	111.9	*113.2*	108.8
72.5°	44.2	46.6	71.7	104.6	109.8	89.1	81.8	87.8	92.1	*92.1*	93.3
75°	22.8	24.9	29.3	34.5	41.6	48.7	58.9	67.9	72.6	*72.9*	72.4
77.5°	11.7	12.5	15.7	17.0	18.6	21.7	28.2	36.1	40.3	*41.9*	41.6
80°	5.5	5.8	6.6	7.8	9.6	12.1	15.2	18.1	20.7	*21.1*	22.8
82.5°	2.9	3.2	3.6	4.2	5.2	6.5	8.9	10.7	12.3	*12.6*	14.1
85°	1.1	1.3	1.5	1.6	2.3	2.8	3.7	5.0	6.2	*6.2*	7.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.8	1.1	*1.1*	1.9
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: P629086
CATALOG NUMBER: GWS-SA1A-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7
2.5°	356.3	351.6	349.5	346.1	343.3	340.2	337.8	336.0	334.9	334.3	333.6
5°	362.1	355.0	349.3	342.5	337.8	333.3	329.6	327.0	325.7	324.7	324.1
7.5°	371.2	361.6	350.9	340.4	332.1	324.9	320.2	317.4	315.6	315.0	314.5
10°	383.6	370.4	352.7	336.0	323.7	315.8	312.6	311.3	311.4	311.1	310.9
12.5°	397.7	379.6	352.2	328.3	314.7	310.0	310.1	312.2	314.7	315.3	315.5
15°	413.0	388.7	347.5	318.2	307.5	308.0	312.2	317.2	321.8	323.6	323.9
17.5°	429.5	396.3	339.0	307.2	301.7	306.9	314.7	322.9	329.6	332.5	333.3
20°	447.9	402.8	326.8	296.4	296.2	304.8	316.1	327.0	335.4	339.3	339.9
22.5°	467.5	406.8	311.9	286.3	290.5	302.0	315.0	326.3	335.2	339.1	339.9
25°	487.3	408.1	295.5	277.1	284.7	297.7	309.5	318.5	327.0	330.4	331.0
27.5°	505.8	404.4	280.0	269.2	279.4	291.2	299.1	304.0	309.8	312.4	312.9
30°	524.5	396.9	266.9	262.8	273.4	282.3	285.8	286.2	288.4	288.4	288.7
32.5°	543.5	385.9	255.4	256.7	265.9	271.7	272.2	268.5	265.8	261.2	261.1
35°	565.3	374.7	246.0	249.7	257.2	260.7	259.3	252.1	245.5	238.1	237.7
37.5°	585.6	363.2	238.1	242.6	247.3	249.9	246.5	237.9	232.4	224.8	223.6
40°	602.3	352.9	230.4	235.1	237.4	239.7	234.2	227.2	228.0	223.8	223.6
42.5°	612.0	342.8	223.3	226.9	228.3	230.0	225.1	219.9	224.3	221.1	221.2
45°	619.1	334.1	216.8	218.1	221.7	224.1	219.6	213.8	214.7	202.3	199.4
47.5°	627.2	329.2	210.7	209.4	215.7	219.9	213.0	204.5	198.7	186.4	185.3
50°	635.8	327.5	204.2	200.6	208.3	212.3	204.2	193.7	186.1	179.4	178.8
52.5°	638.7	327.3	196.1	190.1	197.7	203.4	196.6	185.9	176.8	170.4	170.0
55°	650.2	332.0	185.8	175.7	182.8	194.5	189.5	174.1	166.8	163.9	163.6
57.5°	*663.6*	*332.8*	*169.4*	*160.0*	*169.9*	*183.6*	*177.3*	*164.1*	*156.1*	*152.6*	*152.2*
60°	658.1	312.9	151.9	148.0	158.9	173.4	167.6	156.1	146.9	143.5	143.2
62.5°	501.5	220.9	139.1	137.7	147.0	158.7	157.6	145.6	136.8	134.4	134.1
65°	301.7	155.1	126.8	126.6	133.3	144.5	145.9	136.2	127.0	123.6	123.6
67.5°	149.2	118.7	112.9	112.1	116.3	124.2	130.4	122.4	114.7	111.4	110.9
70°	105.4	104.6	102.7	100.4	101.2	104.5	107.0	100.4	92.1	88.9	88.3
72.5°	91.2	91.3	90.0	88.3	87.6	85.3	83.1	78.2	73.2	69.8	70.1
75°	70.8	71.1	71.9	71.3	69.5	67.0	64.6	58.5	54.4	51.2	50.5
77.5°	41.3	42.9	45.5	44.9	45.2	41.8	40.8	34.8	31.1	28.8	28.3
80°	23.3	24.3	25.4	26.2	25.3	23.8	21.7	18.5	17.3	15.7	15.4
82.5°	14.1	15.1	15.5	16.2	15.9	13.9	12.3	10.2	9.2	8.4	8.3
85°	7.1	7.8	8.3	8.6	7.6	6.3	5.7	4.5	3.9	3.4	3.4
87.5°	1.8	1.9	2.3	1.9	1.8	0.8	0.6	0.2	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

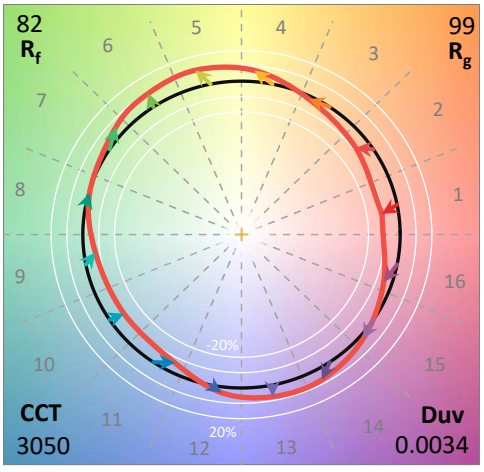
Test Information

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

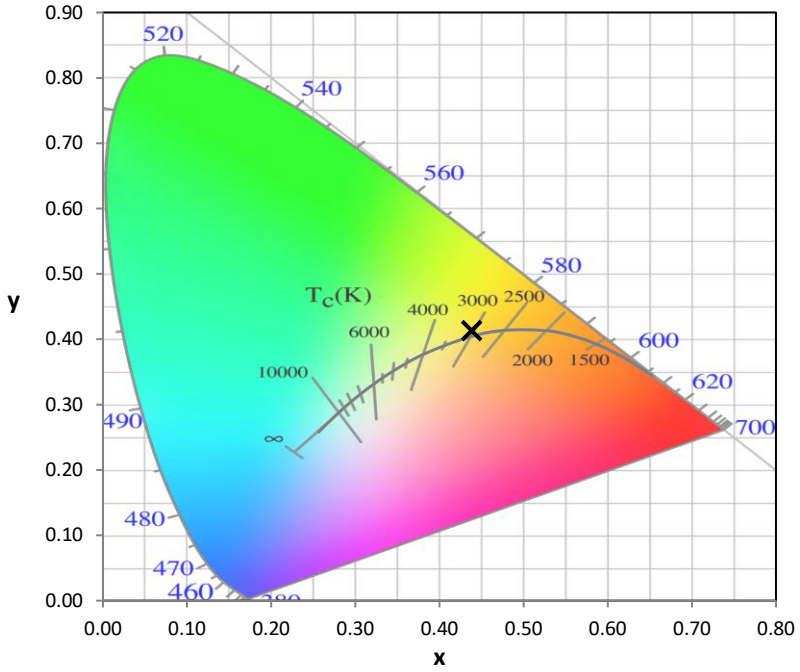
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

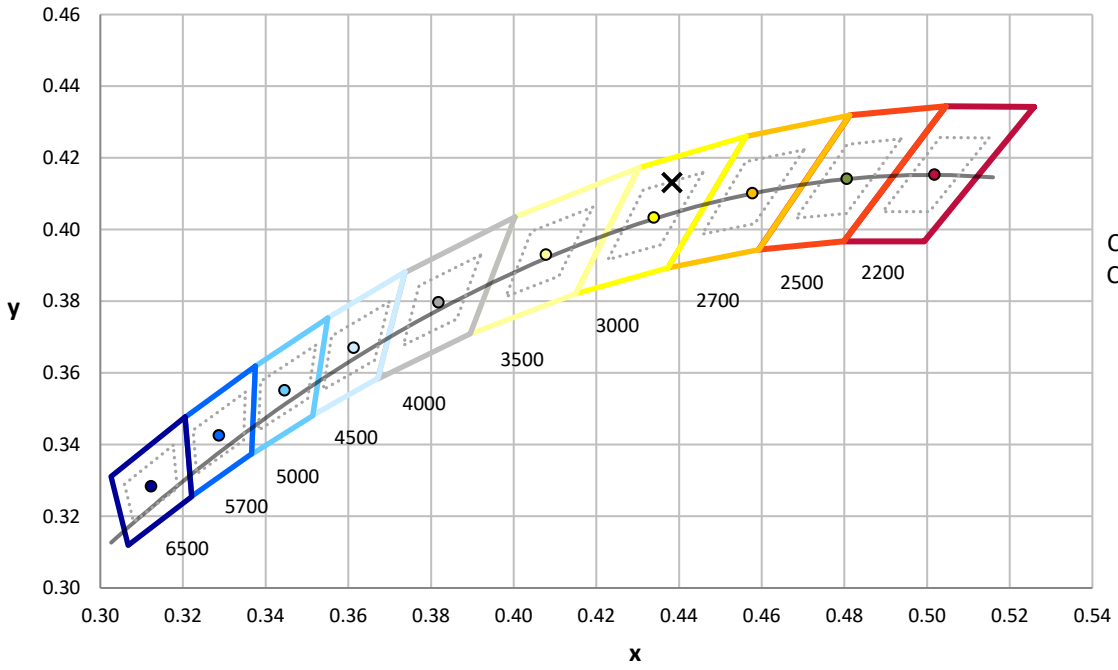
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

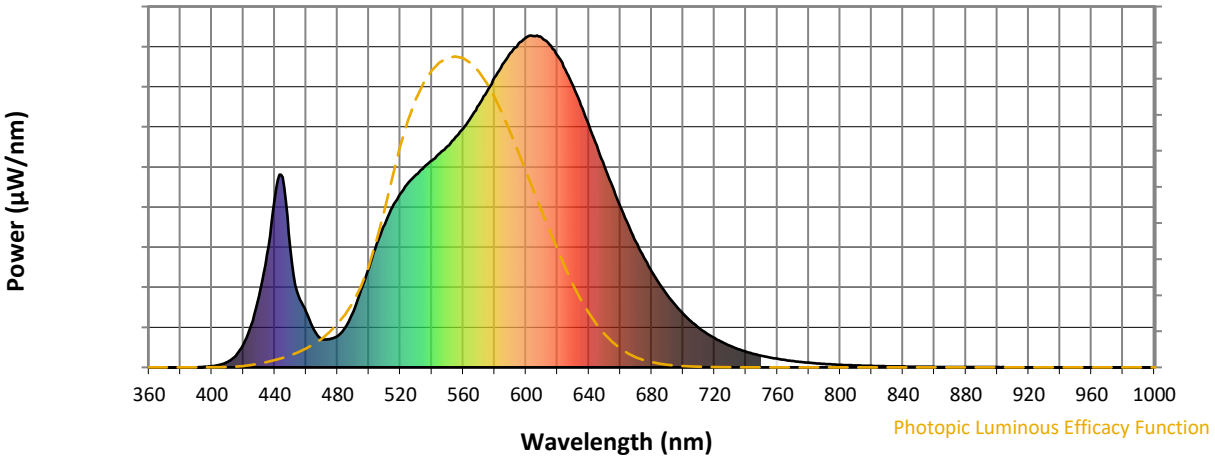


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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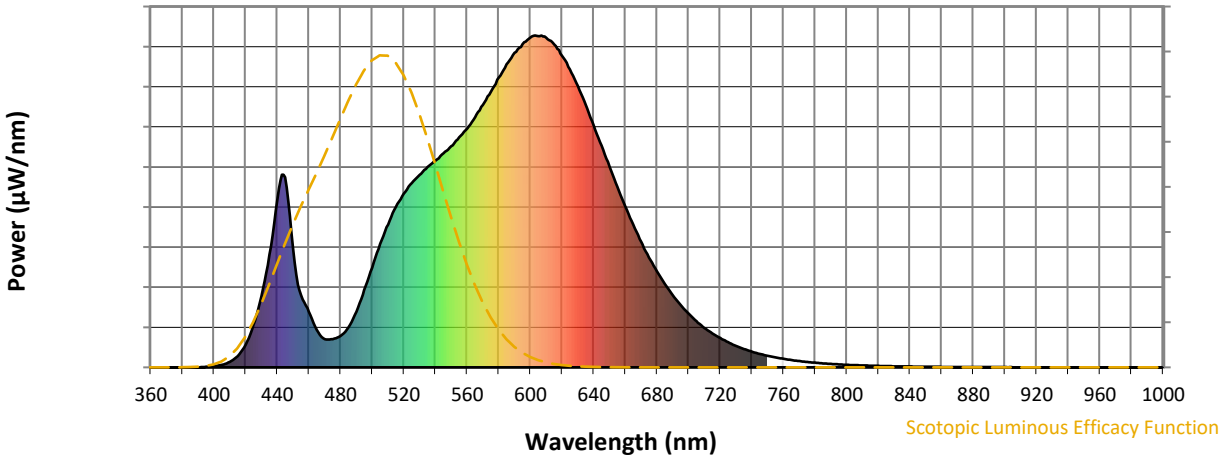
Scotopic Flux vs. Wavelength



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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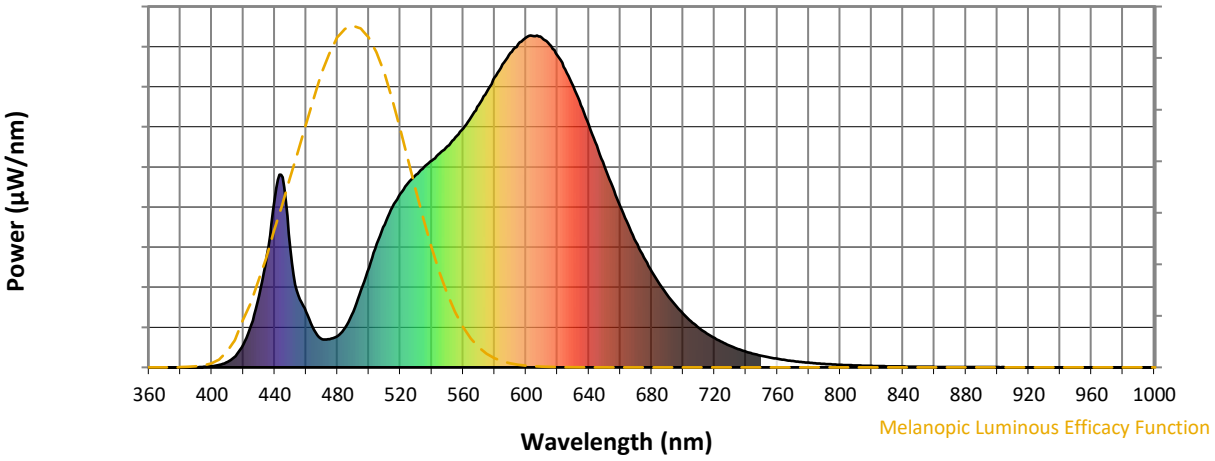
Melanopic Flux vs. Wavelength



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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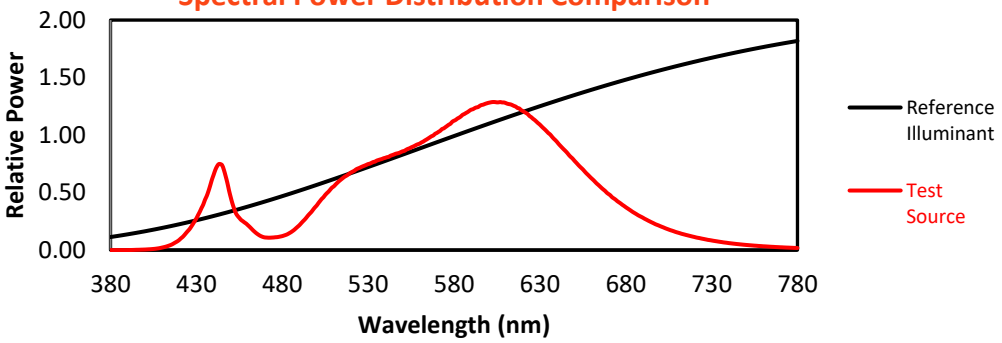
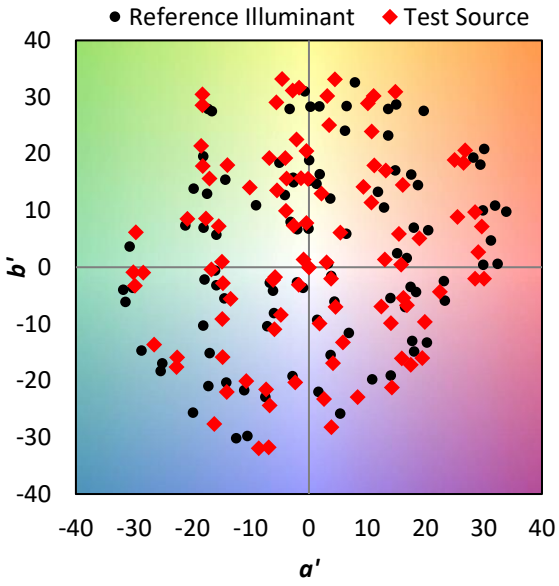
Summary

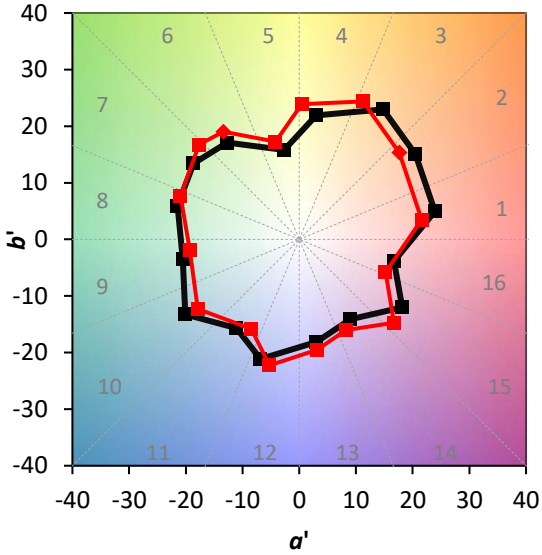
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

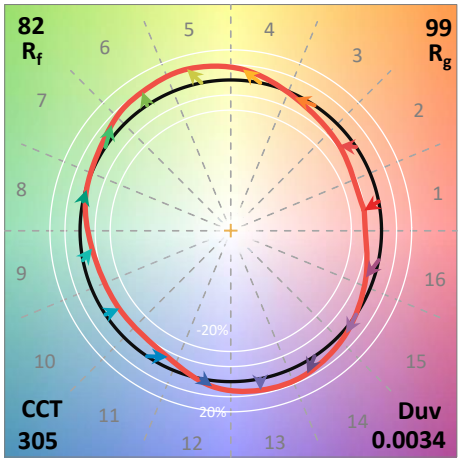
Spectral Power Distribution Comparison

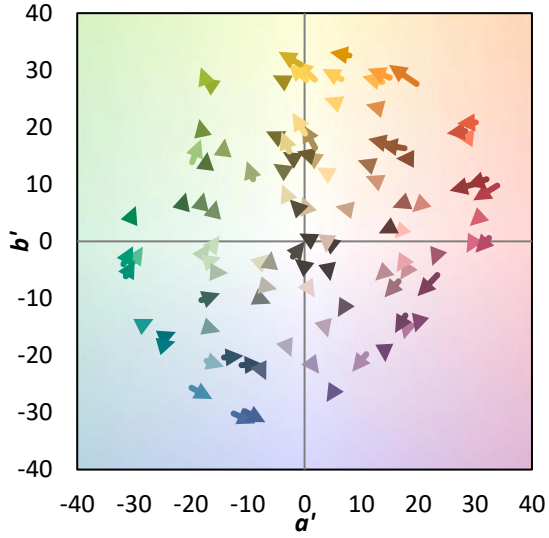


Color Vector Graphics









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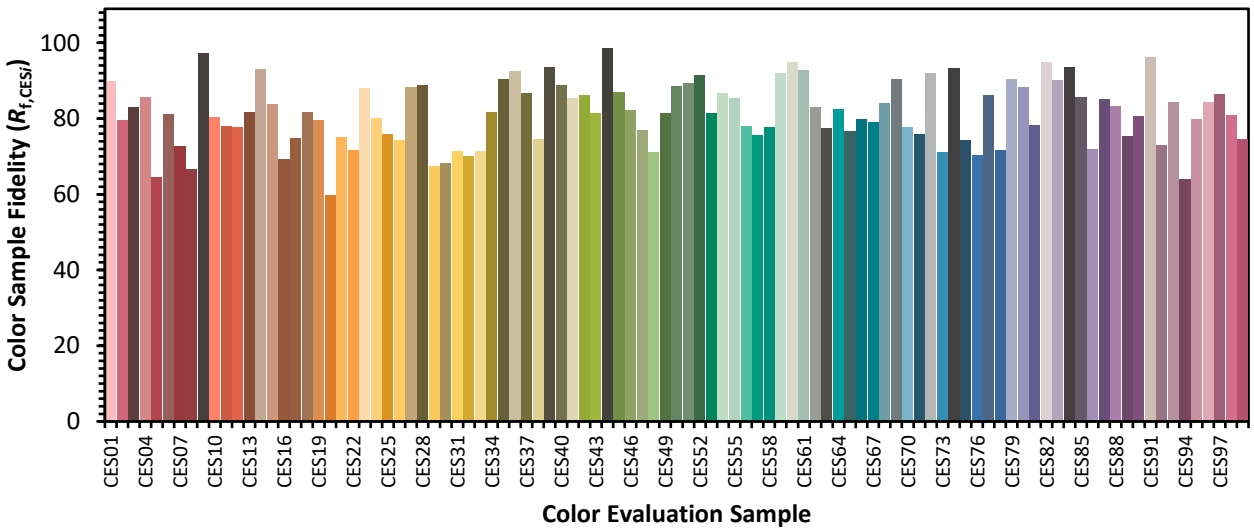
Individual Sample Fidelity Index ($R_{f,i}$)

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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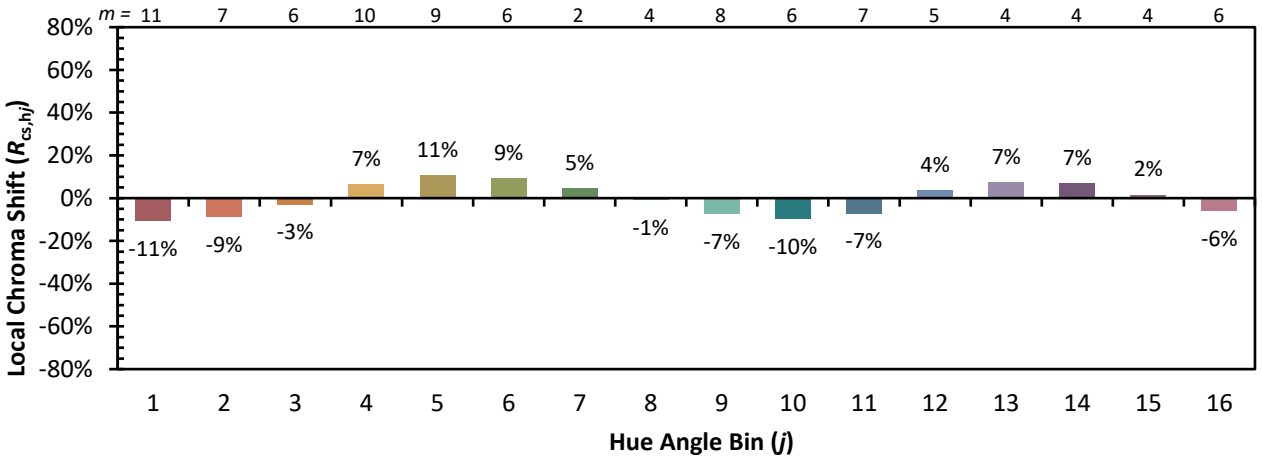
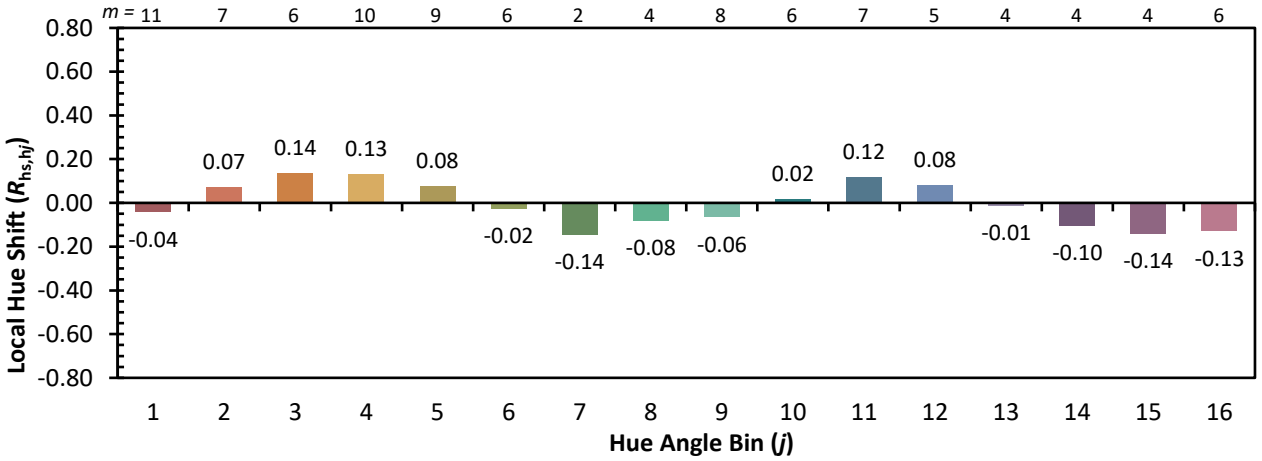
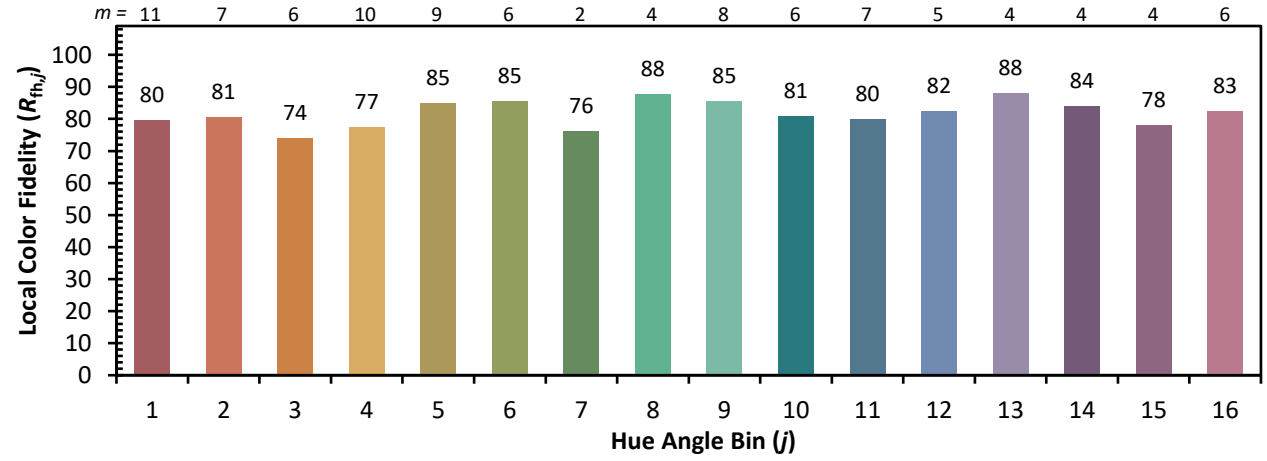
Color Rendition by Hue-Angle Bin







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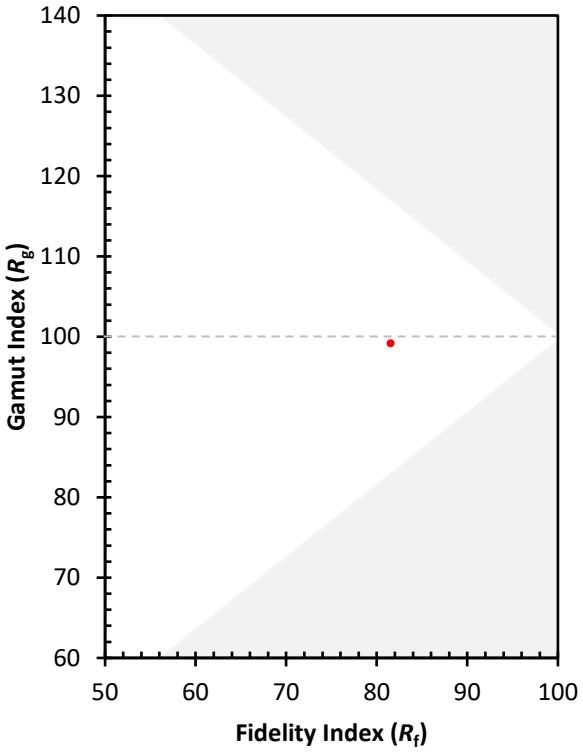
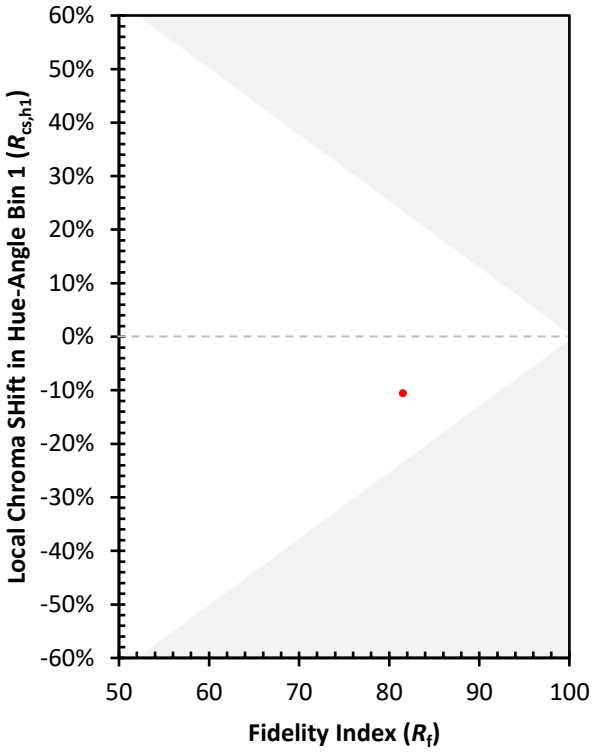
Measure Comparisons





(END OF REPORT)