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: P629073

Luminaire Tested: GWS-SA1A-830-U-SL3-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:	P629073
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-SL3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2213.5 lumens
Efficiency:	N/A
Efficacy:	112.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G1

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: P629073
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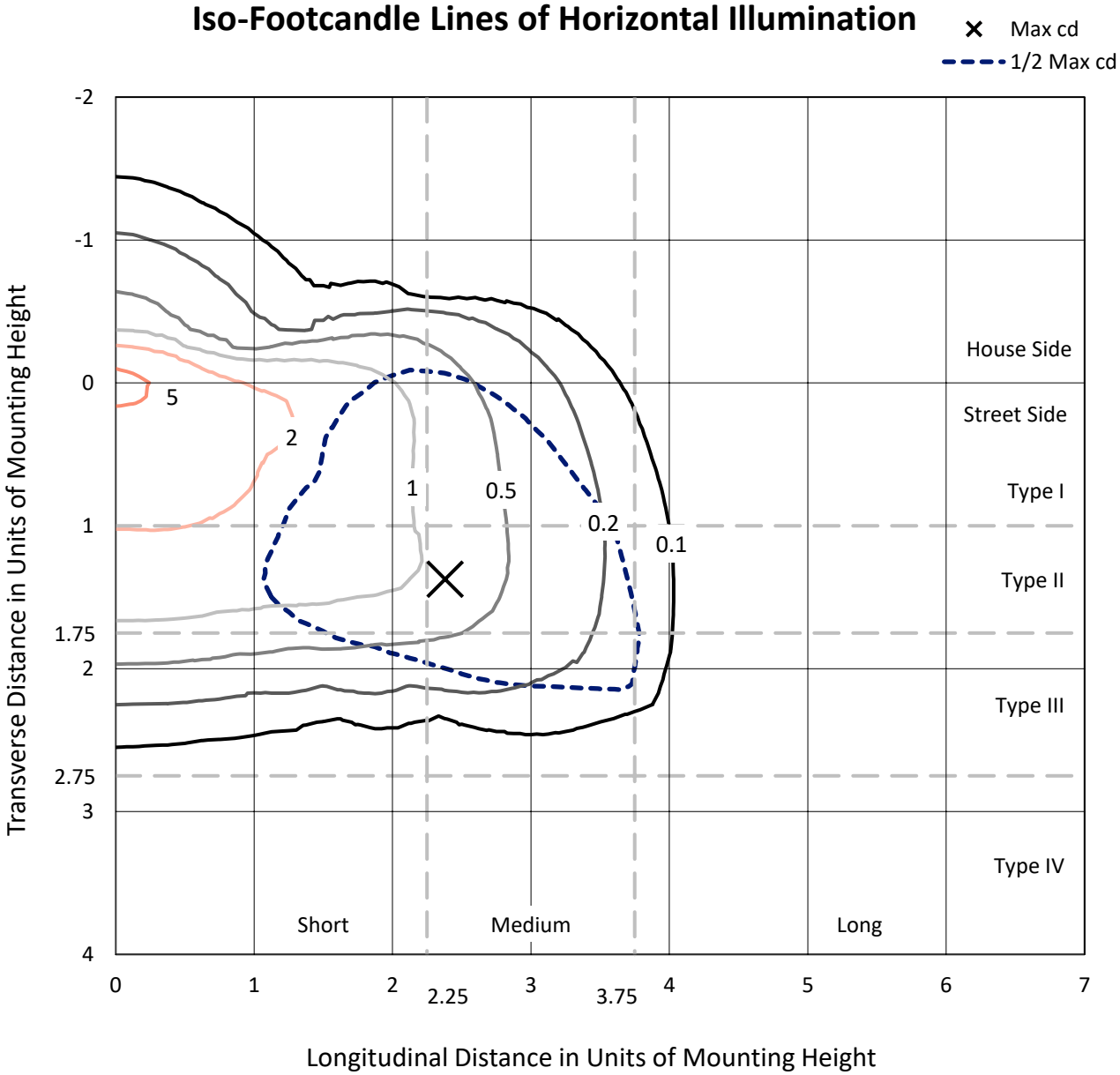
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Medium - N/A

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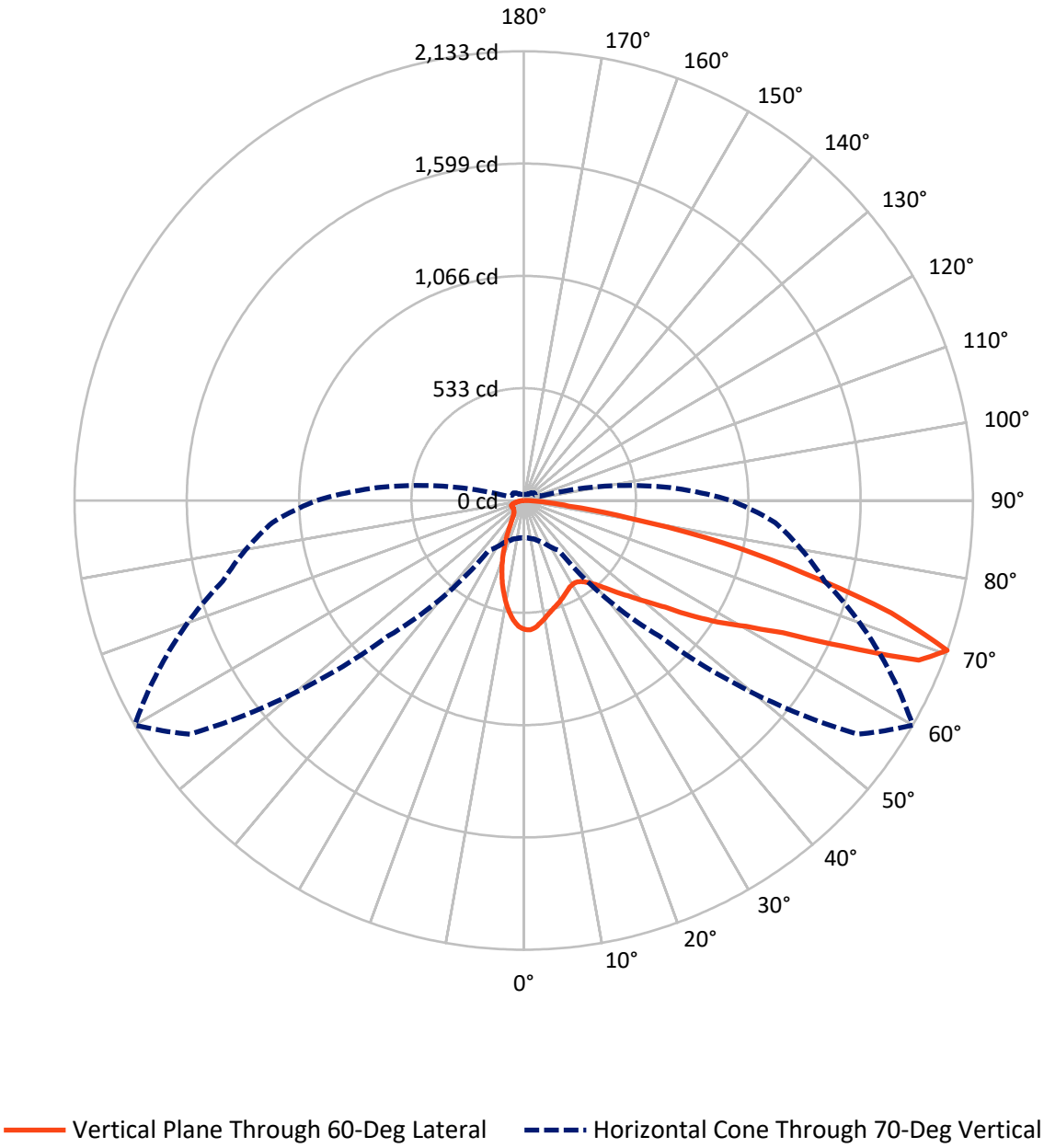
Luminous Intensity Polar Plot



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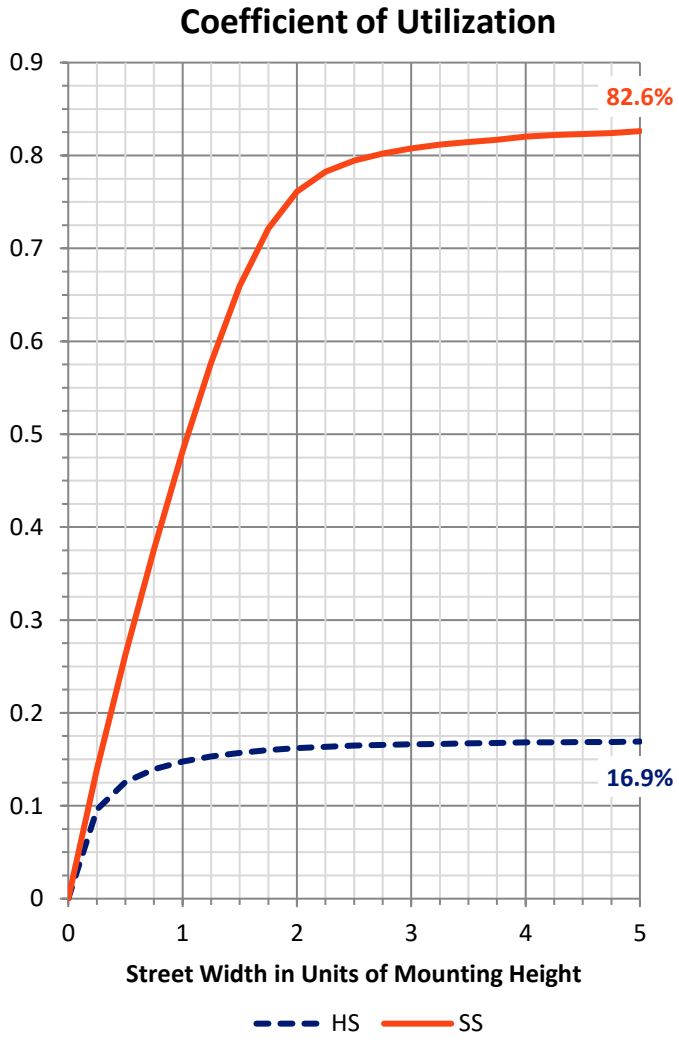
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.6	0.0	378.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	1834.9	0.0	1834.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	2213.5	0.0	2213.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	2.4
10°-20°	118.3	5.3
20°-30°	151.5	6.8
30°-40°	199.1	9.0
40°-50°	288.8	13.0
50°-60°	450.6	20.4
60°-70°	590.0	26.7
70°-80°	326.2	14.7
80°-90°	36.2	1.6
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°	2213.5	100.0
0°-180°	2213.5	100.0



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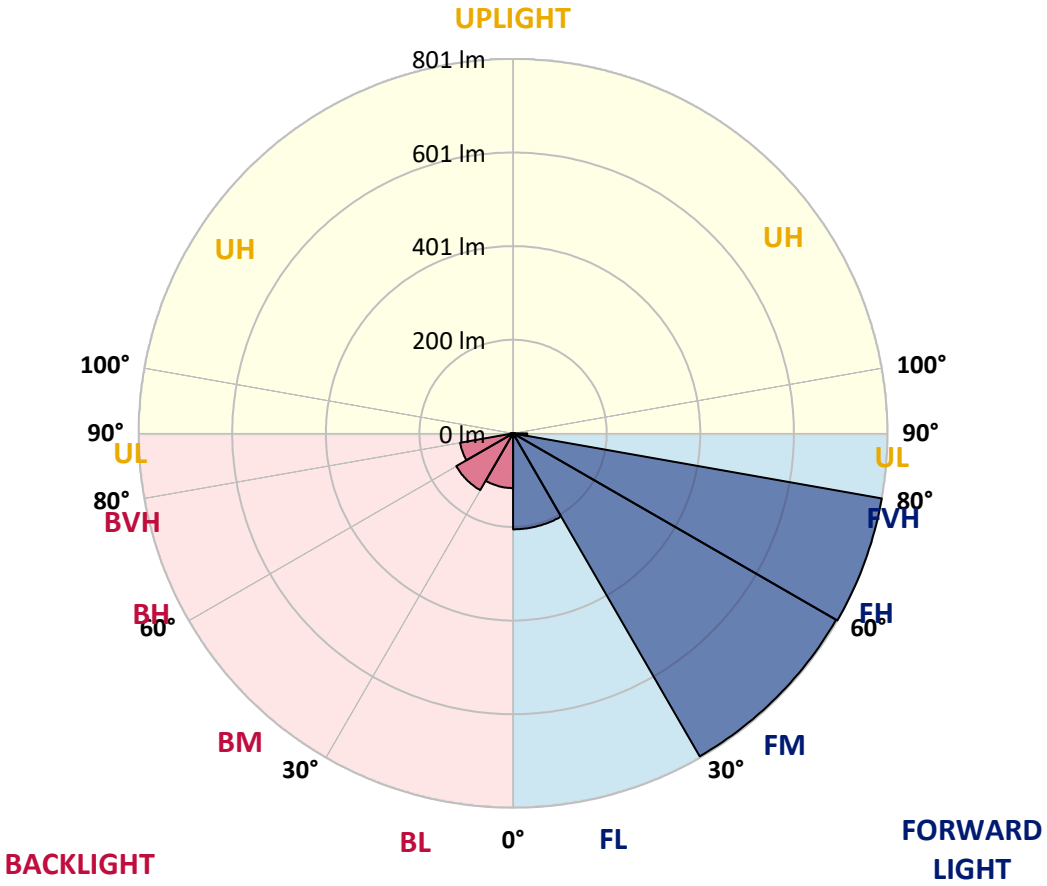
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	205.4	9.3			
FM	(30°-60°)	798.2	36.1			
FH	(60°-80°)	801.2	36.2			G1/1800
FVH	(80°-90°)	30.2	1.4			G1/100
BL	(0°-30°)	117.1	5.3	B1/500		
BM	(30°-60°)	140.4	6.3	B0/220		
BH	(60°-80°)	115.0	5.2	B1/500		G1/500
BVH	(80°-90°)	6.0	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Medium



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Scaled Data Report

REPORT NUMBER: P629073
CATALOG NUMBER: GWS-SA1A-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5
2.5°	603.9	604.6	606.3	608.9	611.5	612.8	616.1	615.1	614.4	613.2	611.5
5°	577.2	578.5	580.1	585.1	590.8	595.3	602.6	603.4	603.8	604.4	601.8
7.5°	543.2	543.5	547.4	554.0	561.5	569.3	581.4	584.8	587.7	591.0	588.9
10°	505.6	506.4	509.3	518.9	531.7	543.2	559.5	565.2	571.4	578.5	575.6
12.5°	474.8	475.0	479.7	489.9	503.8	519.4	539.8	546.6	554.7	565.9	563.3
15°	450.4	450.4	454.8	463.5	479.5	497.8	522.1	530.9	541.9	557.0	552.4
17.5°	431.0	431.1	433.9	443.1	457.4	477.6	506.4	518.2	530.4	550.3	543.5
20°	420.8	419.9	420.4	426.1	438.2	457.8	490.7	504.5	520.8	545.8	535.4
22.5°	420.3	418.8	416.7	417.2	424.3	440.5	473.9	490.6	511.1	542.1	527.2
25°	428.5	426.9	423.2	419.0	418.3	428.0	458.0	476.9	501.1	540.4	519.2
27.5°	442.5	441.3	436.5	430.1	423.5	423.2	446.0	465.8	493.8	542.1	513.6
30°	460.9	459.0	455.9	447.8	437.8	427.4	441.3	459.8	488.9	547.2	511.1
32.5°	481.8	480.7	477.8	469.7	459.0	442.5	445.0	461.1	488.9	556.3	511.6
35°	504.0	503.8	503.8	498.5	486.7	466.1	459.8	472.1	496.4	570.9	516.8
37.5°	525.5	525.4	530.6	532.5	519.1	496.9	484.9	494.1	512.7	592.4	529.6
40°	543.0	543.7	555.0	564.7	557.3	536.7	519.9	524.6	539.3	623.0	551.9
42.5°	560.7	562.5	579.5	596.6	599.5	581.7	564.7	567.5	577.4	663.5	585.3
45°	580.0	580.8	604.6	628.5	642.6	632.1	618.2	621.9	624.2	713.6	635.0
47.5°	598.6	600.7	631.5	664.3	691.1	690.1	682.3	681.2	681.7	774.5	693.8
50°	624.0	627.1	663.2	702.9	742.1	760.0	762.3	753.7	750.2	842.2	767.0
52.5°	672.3	672.3	704.7	743.7	796.3	840.9	856.1	842.0	830.7	913.7	844.7
55°	732.7	735.3	761.0	792.6	859.3	925.9	977.4	961.8	929.8	991.6	926.2
57.5°	759.6	762.8	803.6	852.7	941.8	1022.6	1094.0	1088.5	1041.7	1072.6	1010.7
60°	711.0	717.8	774.0	856.2	1016.4	1178.5	1228.9	1212.9	1146.0	1157.6	1102.4
62.5°	593.1	600.5	662.9	777.7	1006.0	1347.1	1441.5	1382.4	1276.2	1265.0	1224.5
65°	353.9	353.5	428.5	580.8	878.3	1393.9	1778.1	1667.8	1477.3	1412.4	1350.2
67.5°	225.0	224.5	240.2	307.7	584.5	1279.3	1994.4	2023.1	1750.5	1520.7	1360.6
70°	177.5	177.3	188.7	219.4	289.1	910.3	1934.2	2132.6	1915.6	1479.4	1198.0
72.5°	129.4	129.7	147.2	183.8	223.0	457.0	1566.2	1824.7	1761.9	1306.0	972.5
75°	93.0	93.4	104.0	140.7	205.7	249.9	1041.5	1372.1	1340.5	1046.9	669.0
77.5°	59.1	59.8	69.0	98.6	166.2	201.8	631.5	968.6	891.9	589.8	237.9
80°	36.1	38.2	46.0	73.5	132.8	151.4	315.6	510.3	446.7	161.8	80.0
82.5°	18.6	20.2	27.7	45.5	91.5	133.0	178.6	214.4	138.3	67.7	42.6
85°	5.8	6.8	9.7	18.5	43.6	82.4	118.2	106.6	63.5	31.9	19.8
87.5°	1.5	1.5	1.6	1.6	1.8	3.7	22.8	24.1	16.8	10.0	8.1
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: P629073
CATALOG NUMBER: GWS-SA1A-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5
2.5°	608.3	604.4	602.8	602.6	598.6	592.7	588.9	586.1	584.5	584.2	584.2
5°	597.4	592.4	585.8	580.8	569.9	558.9	549.7	544.5	538.5	537.7	537.5
7.5°	583.0	575.7	563.1	549.0	530.1	511.8	496.2	485.7	475.2	473.2	472.6
10°	567.5	557.6	536.1	511.3	482.9	455.6	431.8	413.1	400.8	392.1	390.5
12.5°	552.1	539.0	507.4	470.5	431.6	394.2	358.4	328.0	305.9	293.1	290.9
15°	537.7	519.4	476.1	429.0	378.5	327.3	276.6	237.1	206.2	195.2	192.6
17.5°	524.6	501.7	445.9	386.1	323.1	256.2	198.6	163.4	145.3	139.8	138.5
20°	511.4	483.6	415.1	340.9	264.3	189.3	145.1	128.6	121.8	119.7	119.0
22.5°	497.4	463.7	381.6	296.4	204.9	141.7	118.7	111.4	109.3	109.5	109.3
25°	483.3	443.4	346.4	247.9	152.6	115.0	103.6	100.9	101.4	102.8	103.2
27.5°	471.6	425.4	311.9	194.8	119.2	99.0	93.6	93.4	95.2	97.2	97.5
30°	463.2	409.4	277.9	149.8	98.1	87.9	85.8	86.8	88.9	90.4	90.9
32.5°	457.2	395.6	241.6	117.7	86.0	80.2	79.2	80.2	81.5	82.9	83.2
35°	455.1	385.6	206.0	96.0	77.7	74.5	73.9	74.3	75.0	75.8	76.1
37.5°	459.8	380.6	168.8	83.6	72.7	70.8	69.8	69.5	69.6	70.0	70.1
40°	473.7	382.9	138.3	76.3	69.5	67.7	66.1	65.4	65.3	65.6	65.4
42.5°	497.7	392.4	116.3	72.1	66.9	64.3	62.5	61.9	61.9	62.7	62.7
45°	532.8	411.2	100.4	69.0	64.6	61.4	59.4	59.1	59.8	61.1	61.2
47.5°	584.3	438.7	90.9	66.7	62.5	58.8	56.8	56.7	58.0	60.1	60.2
50°	645.4	478.4	85.7	65.1	61.1	56.7	54.7	54.9	56.4	58.6	59.1
52.5°	718.9	532.5	86.0	64.5	60.2	55.4	53.4	53.1	54.6	56.8	57.3
55°	794.9	598.3	92.3	64.6	59.1	54.7	52.1	51.0	52.3	53.9	54.1
57.5°	878.4	672.4	108.0	64.3	57.7	54.1	51.0	48.4	49.2	50.2	50.7
60°	972.7	759.7	141.9	64.9	57.0	52.6	48.7	45.3	45.2	45.8	46.0
62.5°	1098.7	878.4	179.9	66.1	58.5	50.9	45.3	41.8	41.1	41.5	41.6
65°	1195.0	935.1	167.9	65.1	61.5	49.6	42.1	38.4	37.1	36.8	36.8
67.5°	1155.9	860.1	116.9	62.5	63.0	49.7	39.5	34.8	33.2	32.4	32.2
70°	*983.5*	*698.7*	*81.3*	*59.9*	*61.4*	*49.4*	*36.8*	*31.9*	*29.8*	*28.7*	*28.5*
72.5°	777.0	533.5	65.8	54.7	55.7	44.5	32.7	28.7	26.9	25.4	25.4
75°	500.1	325.5	54.9	48.7	45.5	34.7	28.3	25.6	23.8	22.3	22.3
77.5°	168.3	120.8	42.6	41.3	34.0	26.1	23.8	22.0	20.6	19.3	19.1
80°	68.3	57.3	31.3	31.3	23.8	19.9	18.6	17.8	16.8	15.2	15.2
82.5°	39.7	34.8	21.9	18.9	15.9	13.8	13.0	12.1	12.1	11.0	11.0
85°	19.1	19.3	13.1	11.7	9.1	7.9	7.6	7.1	7.0	6.3	6.2
87.5°	10.4	10.5	6.6	5.2	3.6	3.1	2.6	2.4	2.3	2.1	2.1
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

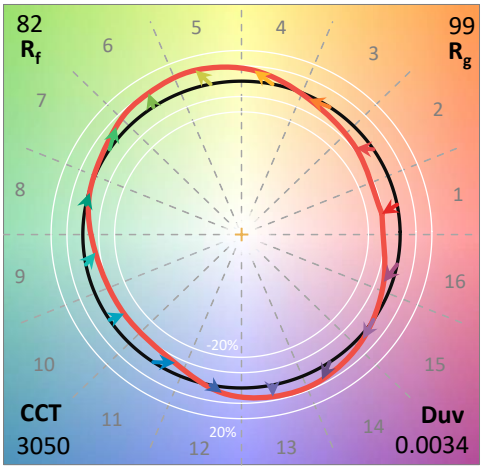
Test Information

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

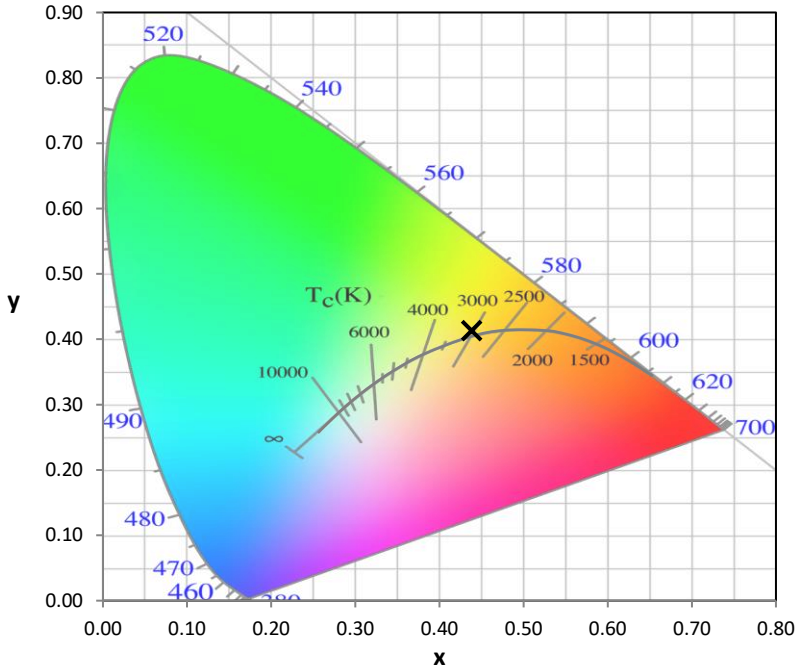
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

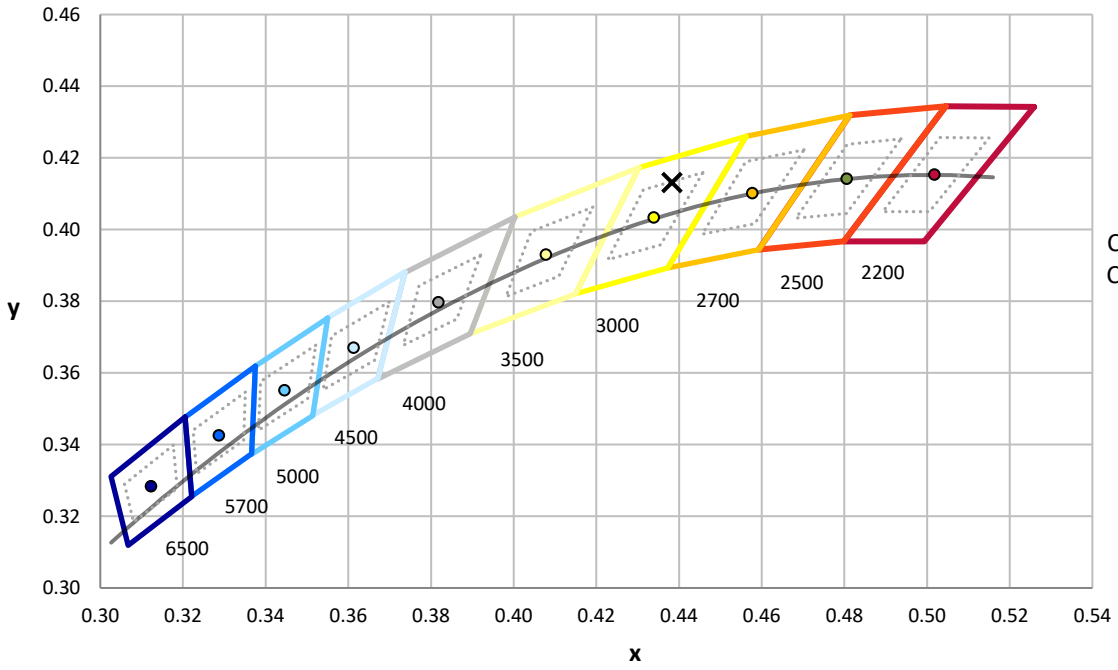
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

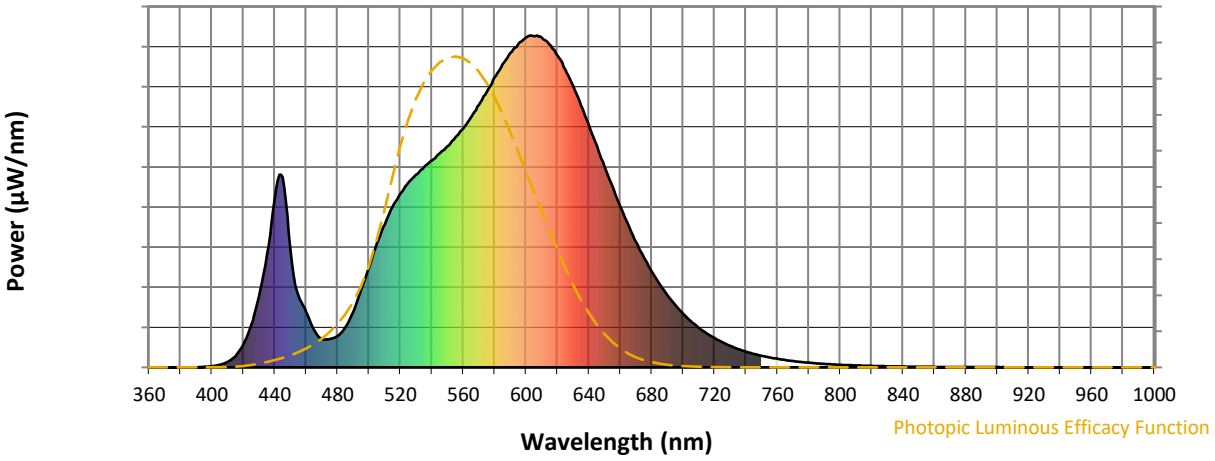


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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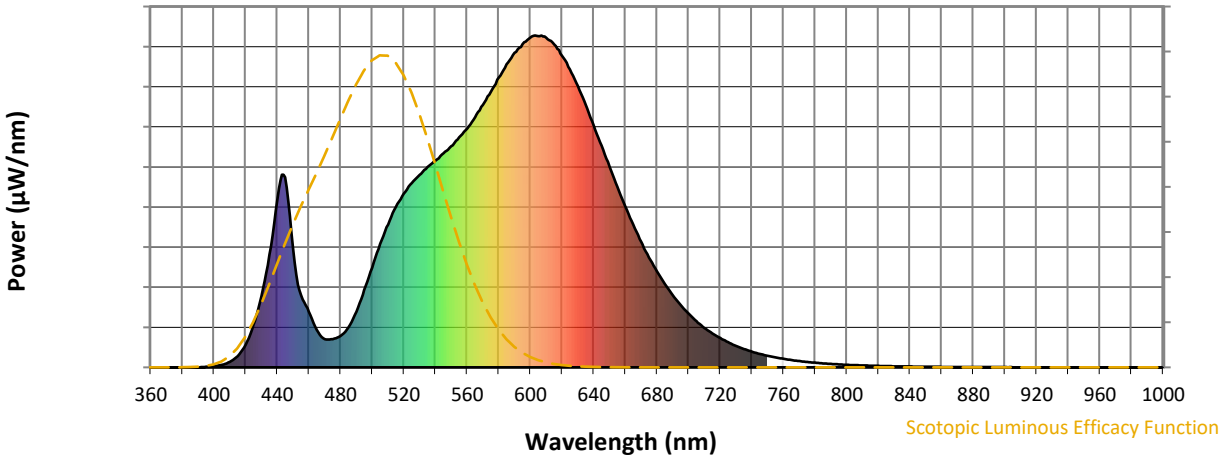
Scotopic Flux vs. Wavelength



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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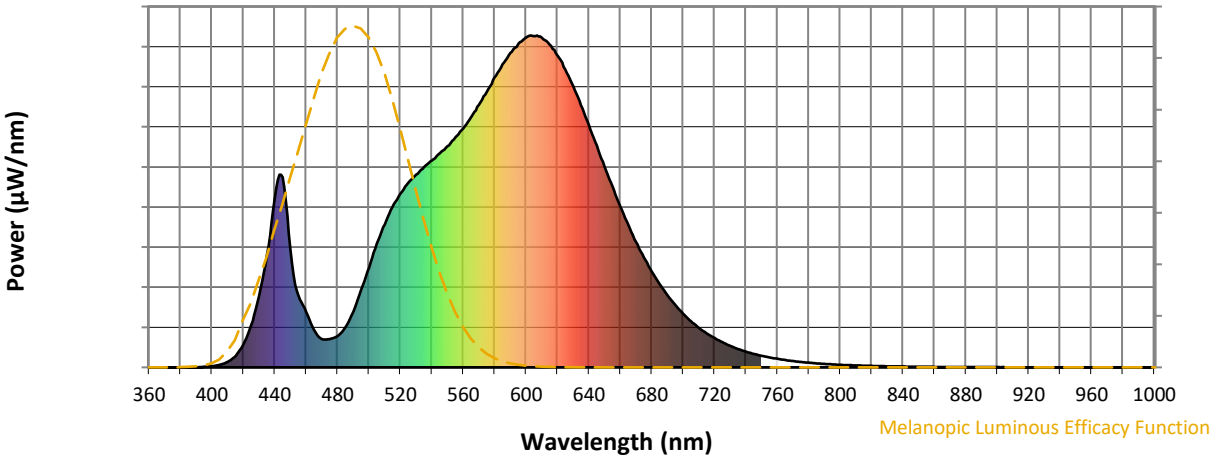
Melanopic Flux vs. Wavelength



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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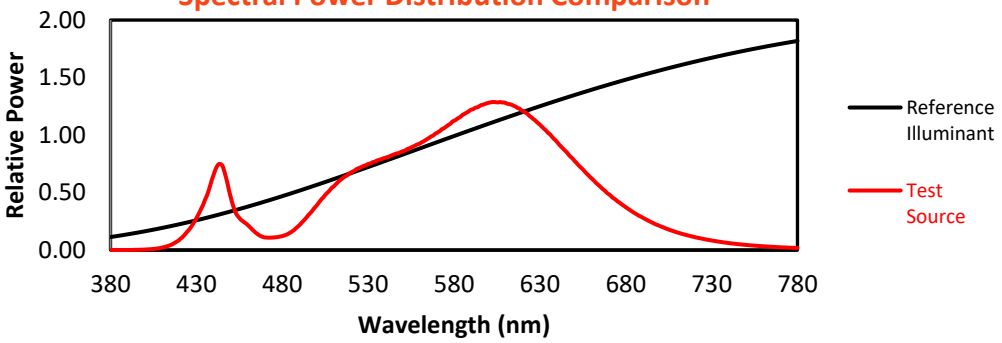
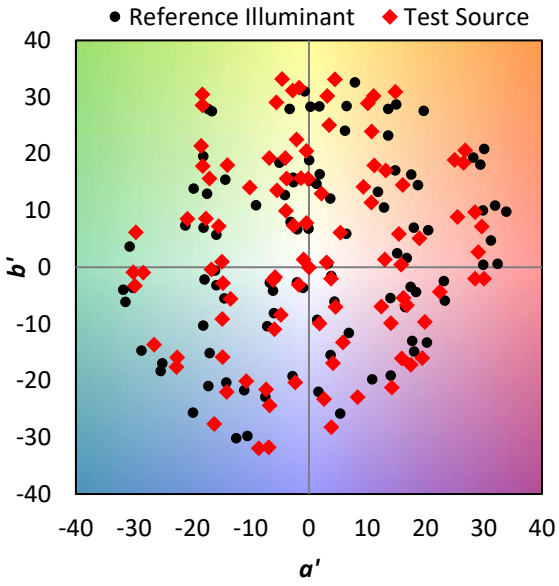
Summary

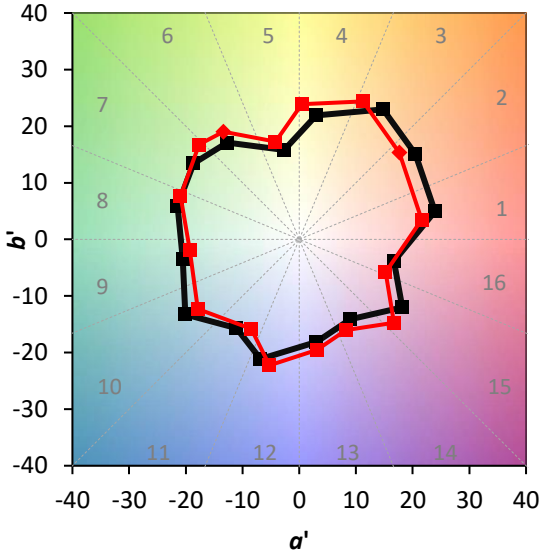
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

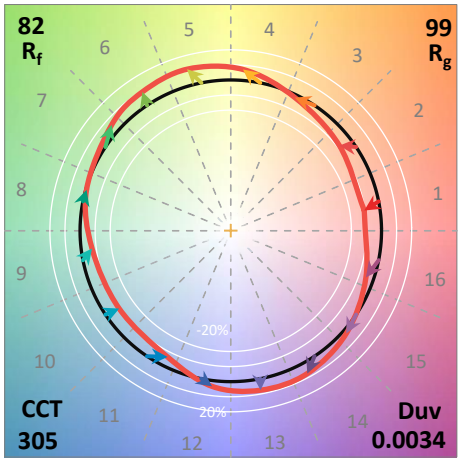
Spectral Power Distribution Comparison

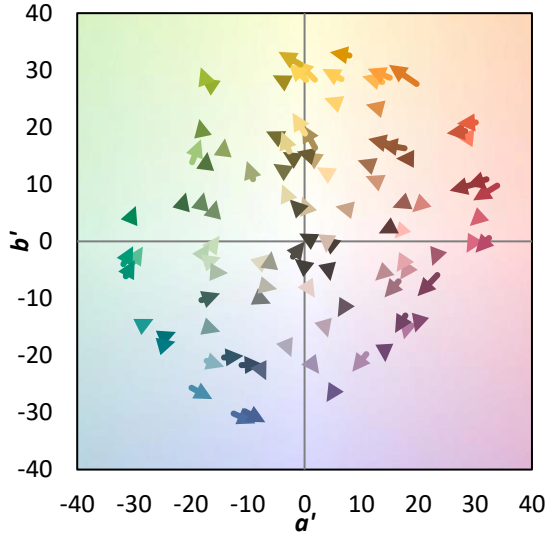


Color Vector Graphics









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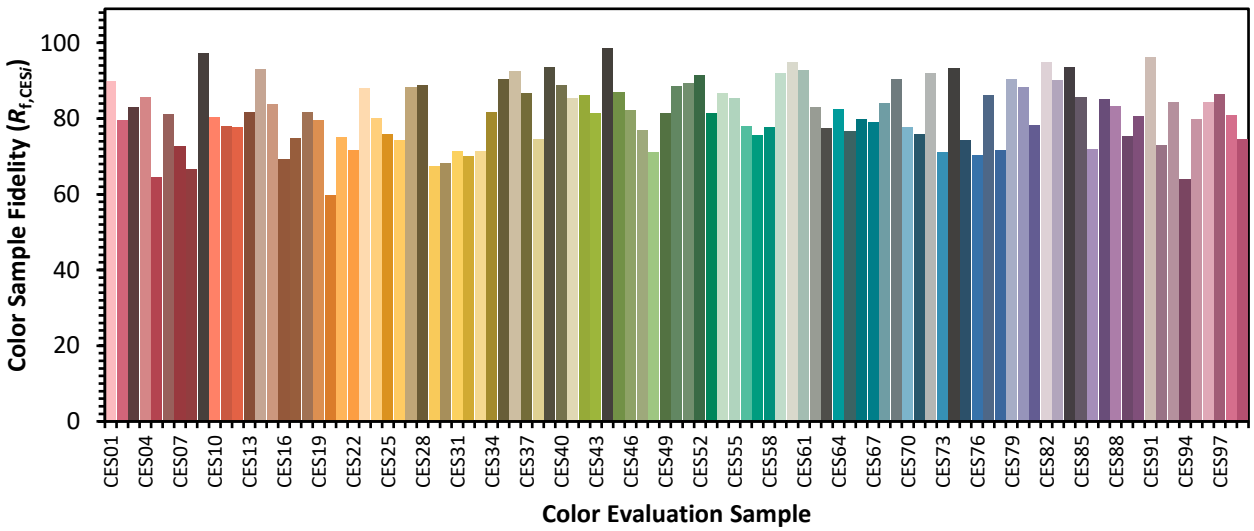
Individual Sample Fidelity Index ($R_{f,i}$)

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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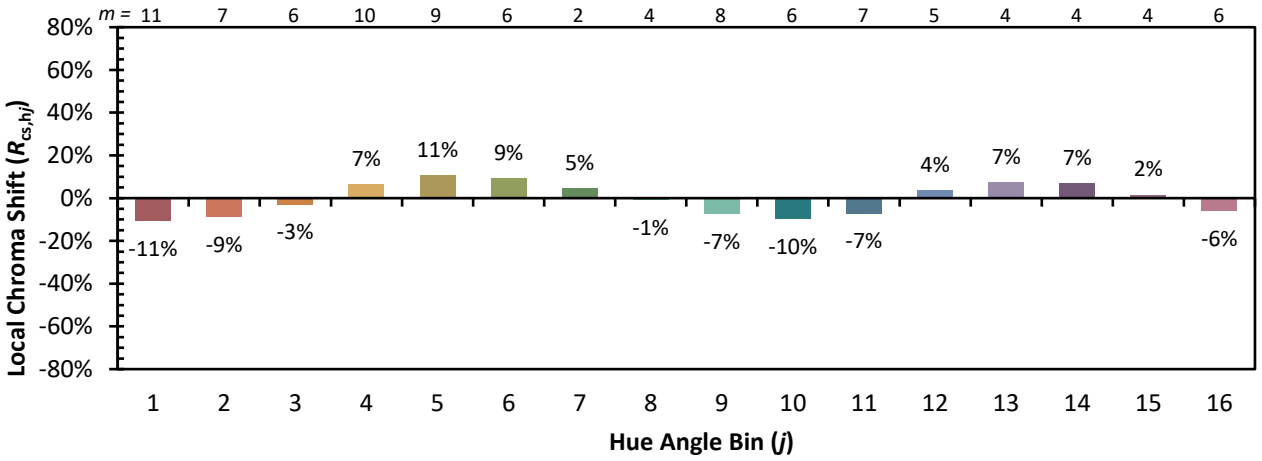
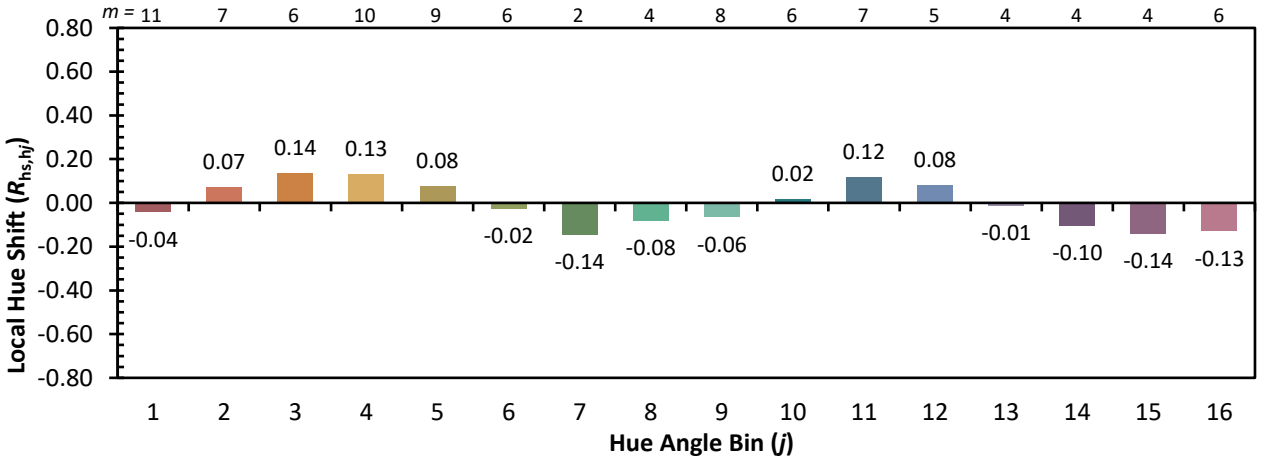
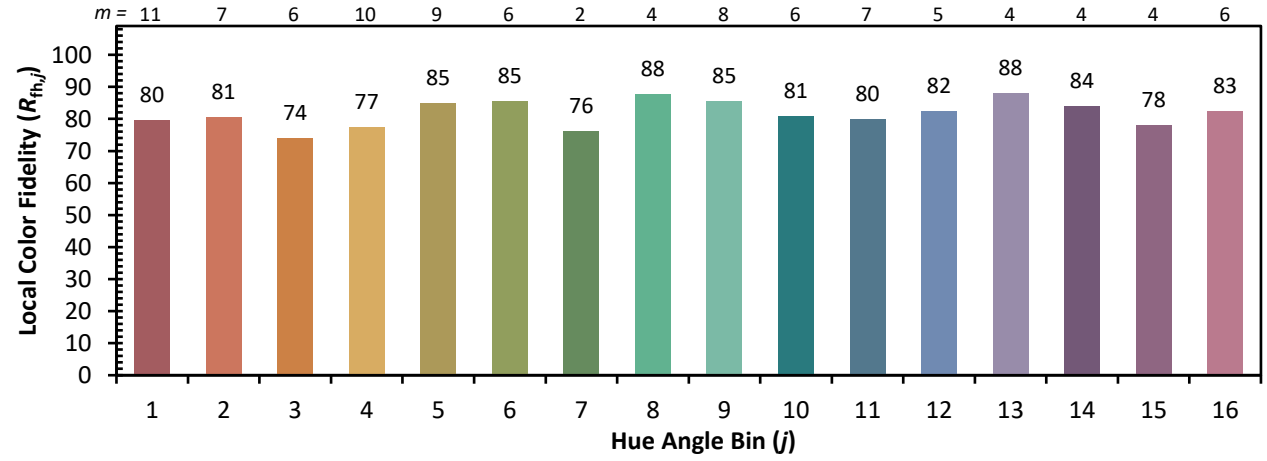
Color Rendition by Hue-Angle Bin







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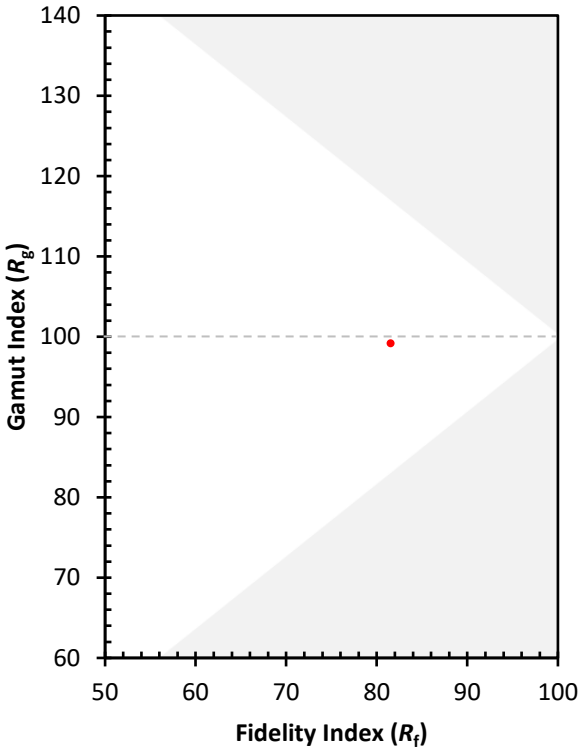
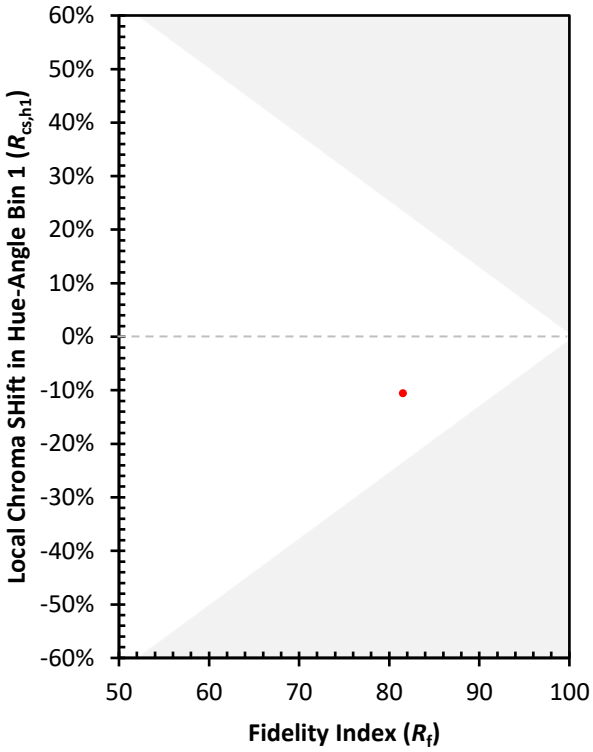
Measure Comparisons





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