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: P629588

Luminaire Tested: GWS-SA1B-830-U-T3-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:	P629588
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-T3-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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:	1758.1 lumens
Efficiency:	N/A
Efficacy:	70.3 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):	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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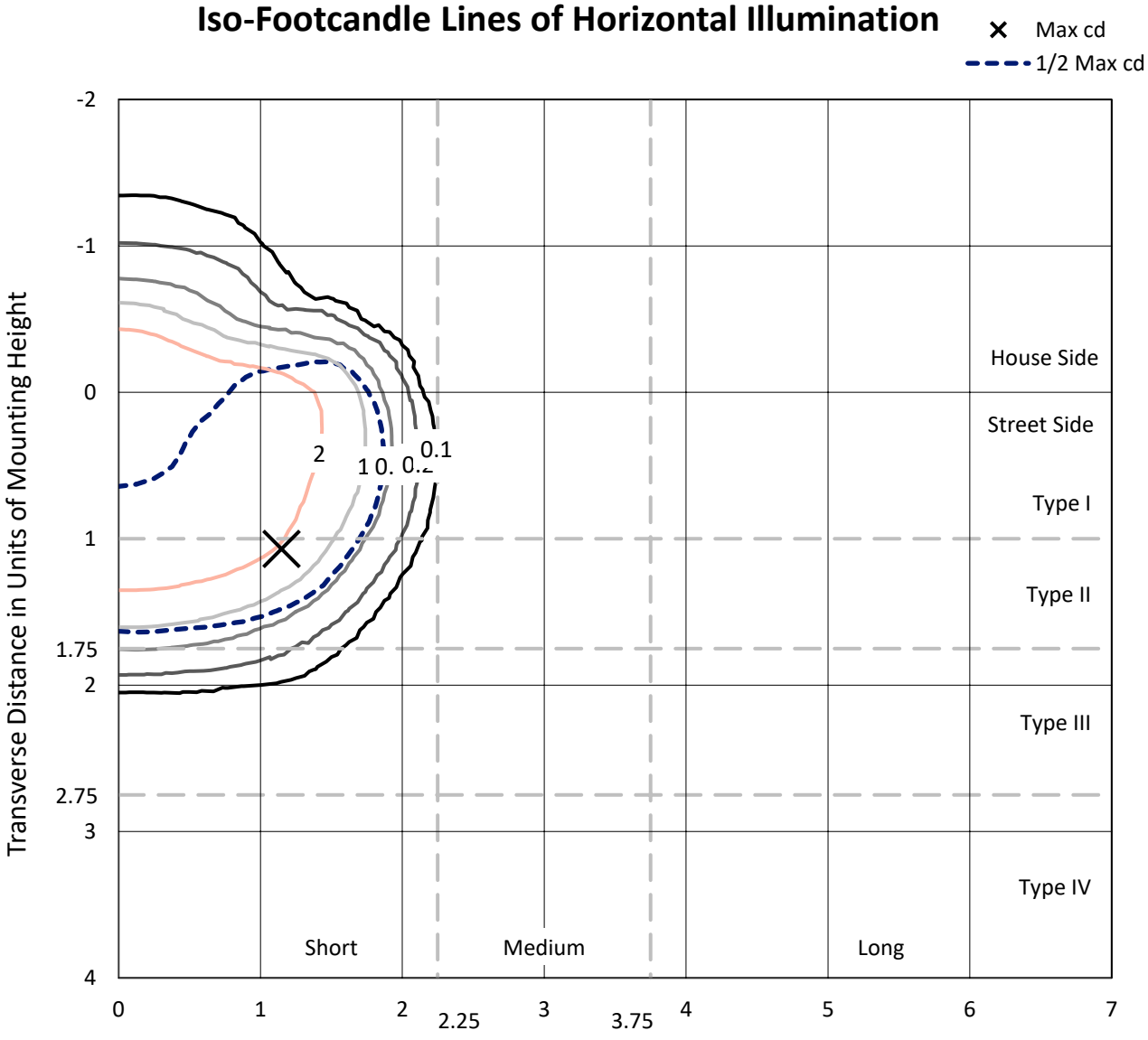
REPORT NUMBER: P629588
CATALOG NUMBER: GWS-SA1B-830-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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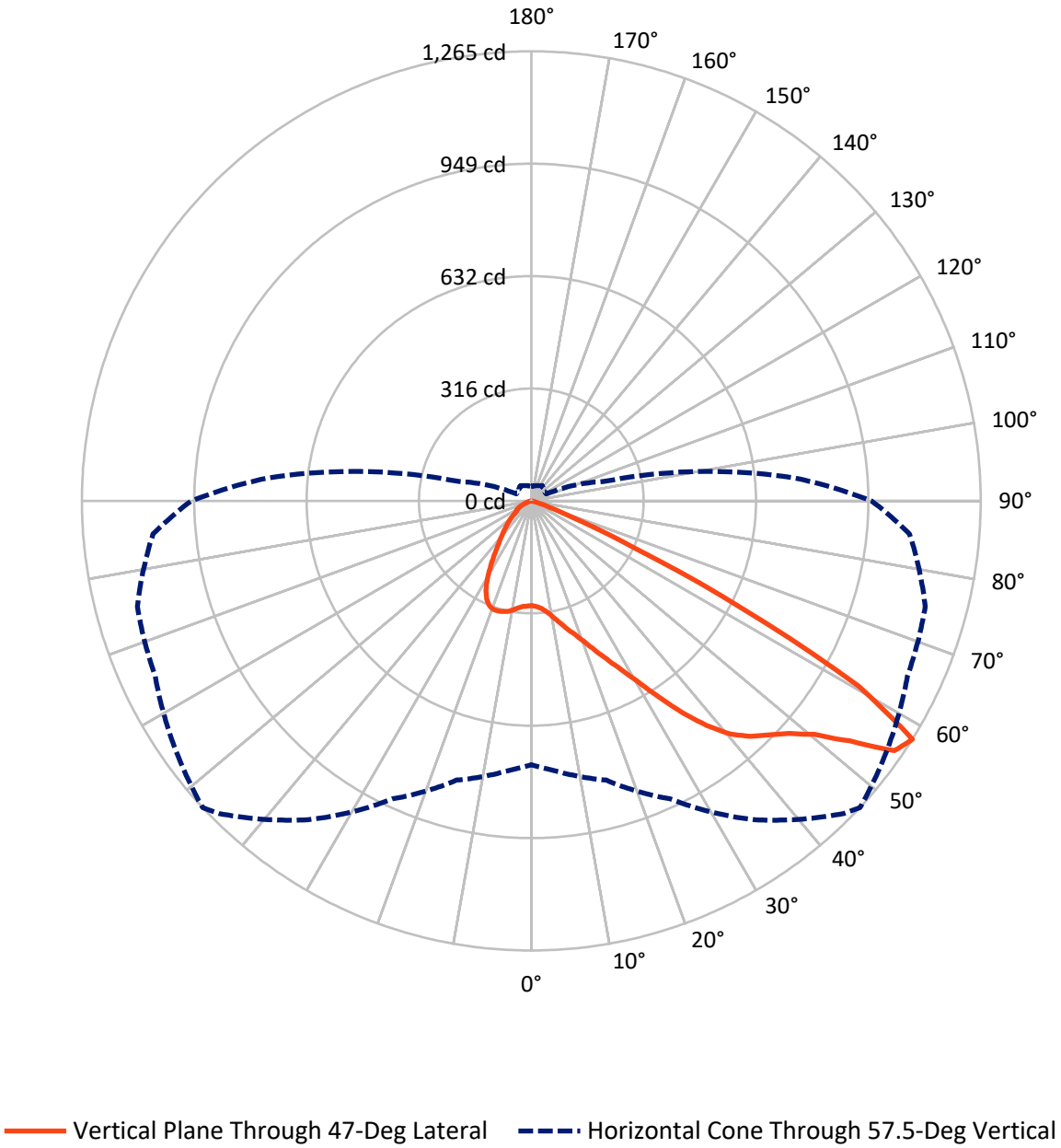
Luminous Intensity Polar Plot



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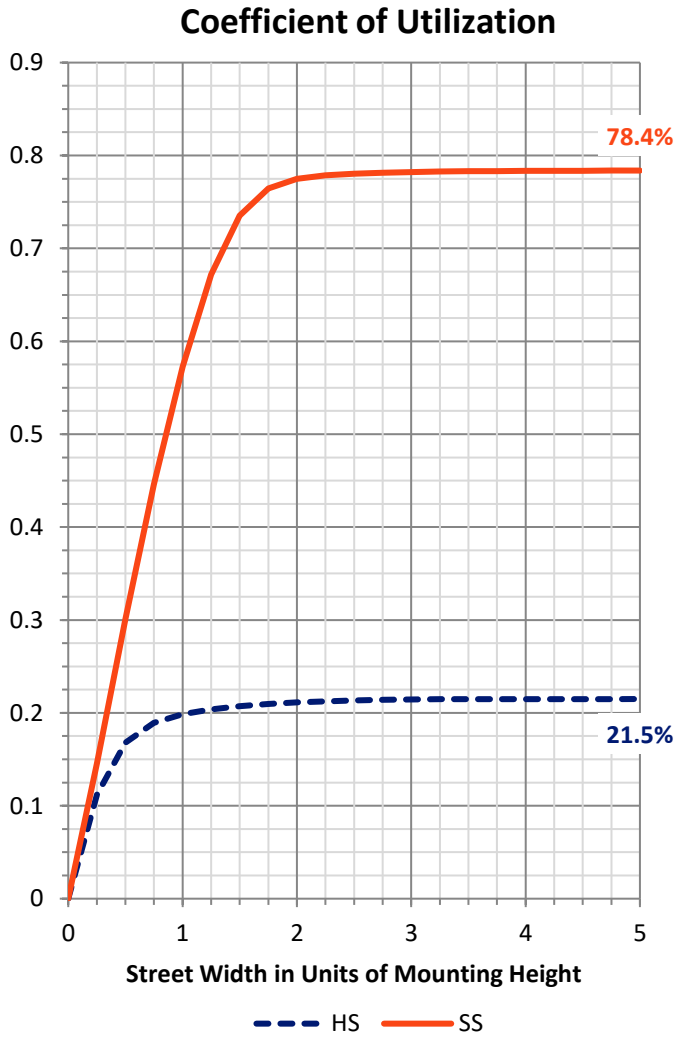
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.4	0.0	381.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1376.7	0.0	1376.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	1758.1	0.0	1758.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	1.7
10°-20°	98.8	5.6
20°-30°	183.4	10.4
30°-40°	293.7	16.7
40°-50°	429.3	24.4
50°-60°	529.8	30.1
60°-70°	177.0	10.1
70°-80°	16.5	0.9
80°-90°	0.3	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°	1758.1	100.0
0°-180°	1758.1	100.0



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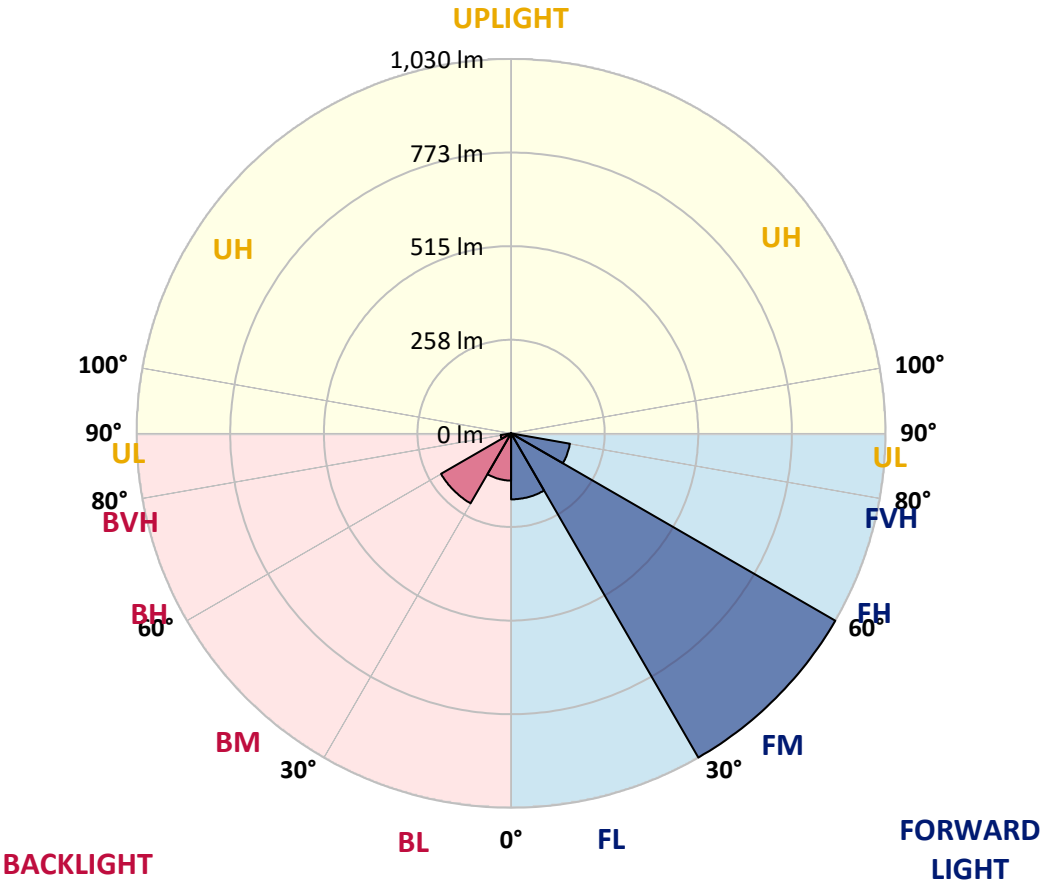
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	181.7	10.3			
FM	(30°-60°)	1030.2	58.6			
FH	(60°-80°)	164.5	9.4			G0/660
FVH	(80°-90°)	0.2	0.0			G0/10
BL	(0°-30°)	129.8	7.4	B1/500		
BM	(30°-60°)	222.5	12.7	B1/1000		
BH	(60°-80°)	29.0	1.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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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Scaled Data Report

REPORT NUMBER: P629588
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	294.3	294.3	294.3	294.3	294.3	294.3	*294.3*	294.3	294.3	294.3	294.3
2.5°	297.4	297.2	297.0	298.2	297.8	297.6	*298.0*	298.0	298.0	296.8	294.3
5°	304.5	304.5	304.3	305.5	304.5	303.9	*304.1*	304.1	303.3	301.0	298.0
7.5°	315.7	315.3	314.9	316.1	315.1	314.9	*315.3*	314.1	312.7	309.0	304.7
10°	331.9	331.9	331.2	332.5	331.7	331.2	*331.2*	330.4	327.8	322.1	315.7
12.5°	354.1	353.1	351.7	350.6	350.2	350.0	*350.2*	349.0	346.1	338.8	330.0
15°	378.4	377.6	375.3	373.7	371.5	371.0	*372.3*	371.3	368.4	358.4	345.9
17.5°	409.0	410.0	404.3	400.8	394.3	393.9	*394.3*	395.9	393.9	381.0	362.9
20°	435.1	436.0	431.7	429.2	423.3	420.6	*421.5*	424.1	421.9	406.8	381.5
22.5°	463.1	464.1	459.6	454.5	451.9	451.9	*454.9*	458.6	455.5	435.7	402.7
25°	496.6	497.4	493.7	487.0	482.3	488.2	*492.7*	502.5	497.4	470.4	427.8
27.5°	534.9	535.1	529.8	522.9	520.4	531.5	*536.0*	551.1	549.0	509.4	454.3
30°	576.0	576.2	574.9	570.2	568.0	582.5	*588.6*	610.5	609.0	557.8	490.4
32.5°	618.6	618.6	620.9	620.5	623.1	646.8	*656.6*	681.5	680.1	617.0	535.3
35°	661.5	661.7	665.6	675.4	686.4	717.8	*730.7*	760.9	757.6	687.8	592.7
37.5°	710.3	708.2	713.5	728.2	752.7	789.0	*801.3*	830.1	826.4	760.3	667.6
40°	769.0	765.4	765.4	782.5	810.3	852.1	*862.5*	876.8	864.4	818.8	741.1
42.5°	833.9	830.5	826.0	841.1	864.4	897.0	*905.6*	901.7	891.5	874.1	824.8
45°	899.7	894.4	897.4	906.6	920.1	935.6	*938.8*	920.9	916.2	921.1	893.9
47.5°	949.7	946.0	953.5	966.4	977.4	979.7	*977.4*	952.5	952.1	969.5	941.9
50°	966.4	966.8	987.6	1015.8	1033.5	1035.4	*1032.3*	1003.7	999.9	1005.0	967.8
52.5°	968.0	969.7	1000.1	1053.8	1102.1	1124.2	*1121.7*	1090.9	1052.9	1047.4	1007.0
55°	928.6	938.2	980.7	1059.1	1161.9	1232.3	*1240.5*	1181.5	1125.2	1120.5	1091.3
57.5°	*742.3*	*761.9*	*813.1*	*924.8*	*1095.2*	*1243.6*	*1264.8*	*1222.3*	*1167.8*	*1147.8*	*1068.7*
60°	443.7	468.0	517.2	654.1	833.5	1022.1	*1058.7*	1064.6	1039.5	981.7	819.9
62.5°	190.4	188.4	249.0	353.9	495.8	649.6	*666.2*	691.9	713.7	653.3	497.6
65°	65.3	71.0	98.8	159.6	248.2	301.7	*316.4*	339.4	370.4	305.7	182.3
67.5°	40.4	42.9	56.9	94.3	133.9	131.8	*125.3*	121.6	118.4	81.0	50.0
70°	29.4	31.4	40.0	64.9	90.0	63.3	*54.9*	44.5	49.4	45.5	35.5
72.5°	19.8	21.4	27.6	39.4	46.1	30.8	*28.6*	32.5	39.2	37.3	29.0
75°	11.8	12.9	15.7	19.2	18.8	15.9	*16.1*	22.9	30.0	28.0	20.6
77.5°	8.2	8.6	10.4	12.4	9.2	4.9	*4.5*	6.3	10.2	10.2	6.9
80°	2.0	2.7	2.7	1.6	1.4	1.2	*1.2*	1.8	2.9	2.0	1.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	*0.2*	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.2	0.2	0.2	0.2	*0.2*	0.2	0.4	0.4	0.4
87.5°	0.0	0.0	0.2	0.2	0.2	0.2	*0.2*	0.2	0.2	0.4	0.4
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: P629588
CATALOG NUMBER: GWS-SA1B-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3
2.5°	295.7	293.3	294.9	294.5	295.7	296.1	294.3	293.9	294.1	291.7	290.8
5°	298.6	295.7	296.6	295.7	297.2	298.4	297.8	298.6	299.6	297.8	297.0
7.5°	304.7	301.9	301.7	300.4	302.5	303.3	303.1	305.3	307.4	306.1	304.9
10°	315.3	311.5	311.0	310.0	310.6	311.2	309.0	309.4	311.2	309.8	309.2
12.5°	328.4	323.7	322.7	320.2	320.2	317.2	312.3	311.2	312.7	311.7	310.6
15°	342.5	336.1	334.5	330.2	326.1	320.4	315.3	314.1	315.1	313.9	313.1
17.5°	358.2	351.0	345.7	338.2	329.2	322.5	316.8	314.1	312.5	310.0	309.8
20°	373.7	364.3	355.3	343.3	331.5	321.2	311.9	304.9	299.0	295.3	293.9
22.5°	391.7	377.8	363.3	346.4	329.4	313.9	297.4	285.5	275.3	271.9	270.2
25°	410.8	392.9	371.3	349.2	322.5	297.6	275.1	257.6	244.1	239.6	237.8
27.5°	432.1	407.4	379.4	348.6	308.2	274.3	244.5	222.7	209.4	205.3	206.8
30°	459.0	426.2	389.6	342.3	286.8	241.7	206.8	188.4	178.4	174.5	174.7
32.5°	494.9	453.1	404.5	328.8	259.2	204.5	173.9	160.4	153.7	148.6	148.2
35°	546.4	494.1	418.4	307.2	225.7	171.4	149.2	138.6	129.2	123.3	124.3
37.5°	608.0	545.8	426.0	278.0	188.2	145.7	130.6	119.8	109.2	100.4	101.4
40°	681.1	613.3	425.3	239.6	153.9	128.2	115.1	102.5	89.2	81.2	82.0
42.5°	762.5	677.2	412.1	199.0	127.6	113.9	100.2	84.3	71.4	66.5	66.7
45°	833.1	729.0	388.8	157.0	107.4	100.0	84.7	68.4	62.7	59.2	59.0
47.5°	885.4	767.0	355.5	123.5	91.0	87.4	69.6	61.2	56.7	53.9	53.5
50°	914.6	780.3	318.8	96.7	76.9	74.1	62.2	55.5	52.5	50.6	50.2
52.5°	953.7	796.2	292.5	76.3	64.5	60.6	57.4	51.6	49.6	48.2	47.6
55°	1015.8	827.0	269.6	60.6	53.7	52.9	54.1	49.4	48.2	45.9	45.1
57.5°	*957.4*	*742.9*	*209.4*	*46.9*	*45.3*	*48.4*	*52.2*	*47.1*	*44.1*	*42.0*	*41.2*
60°	673.7	493.9	105.3	37.8	40.4	45.3	49.2	42.7	39.6	40.0	39.6
62.5°	371.5	247.2	47.4	31.6	35.1	40.0	42.0	36.9	34.9	38.4	39.0
65°	121.4	84.1	27.3	24.5	27.8	32.7	36.3	35.1	34.7	38.8	40.0
67.5°	37.3	27.8	18.6	17.6	19.2	24.1	30.6	38.0	40.8	42.0	42.7
70°	28.0	21.8	15.9	14.9	15.7	18.4	25.9	31.6	29.8	30.0	29.6
72.5°	22.5	17.3	13.7	13.1	13.1	12.7	13.7	17.1	19.4	20.4	20.4
75°	15.7	12.2	10.4	9.6	7.6	6.1	5.5	5.5	4.9	4.7	4.5
77.5°	5.3	4.5	4.1	3.3	2.2	1.8	1.6	1.4	1.0	0.6	0.4
80°	0.8	0.6	0.4	0.4	0.4	0.2	0.2	0.2	0.0	0.0	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	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

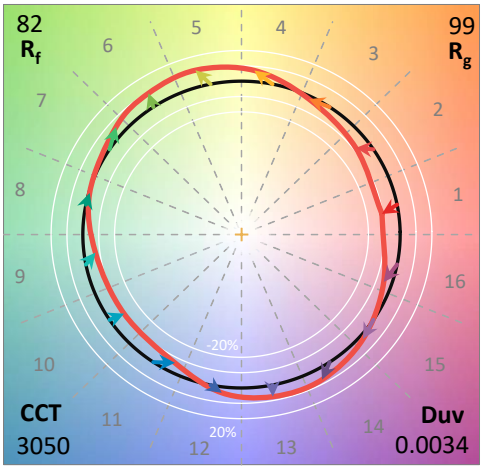
Test Information

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

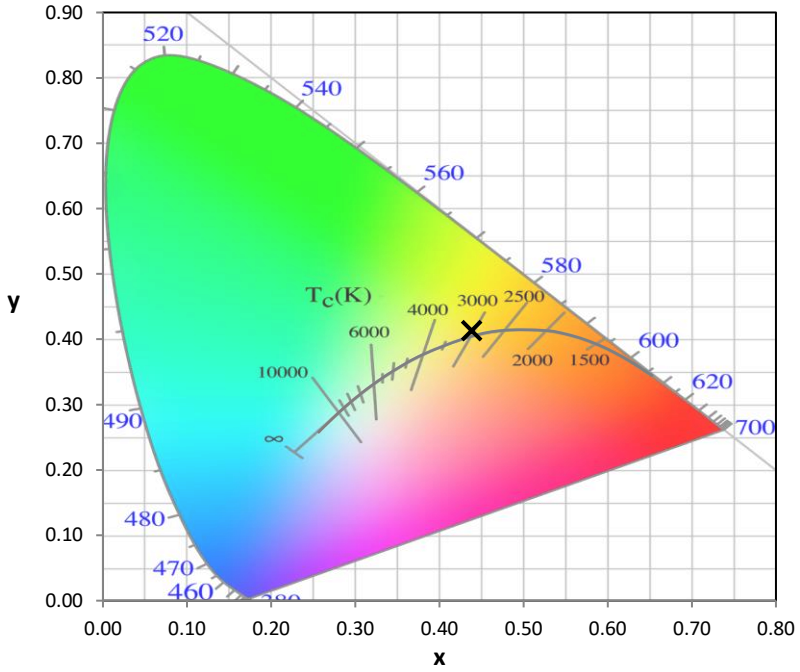
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

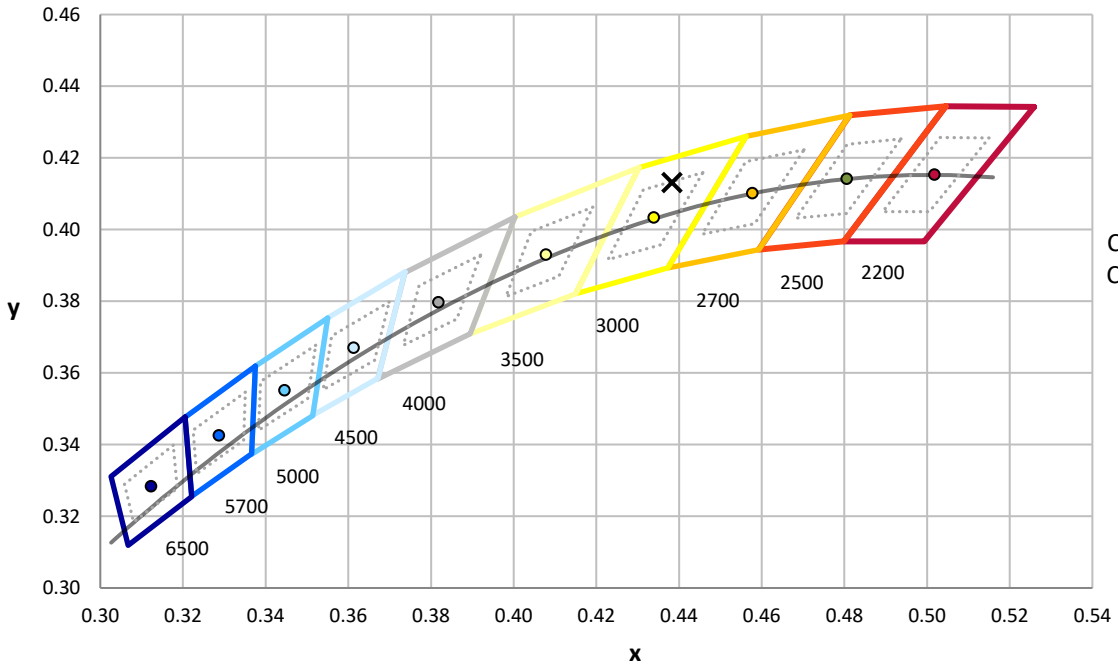
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

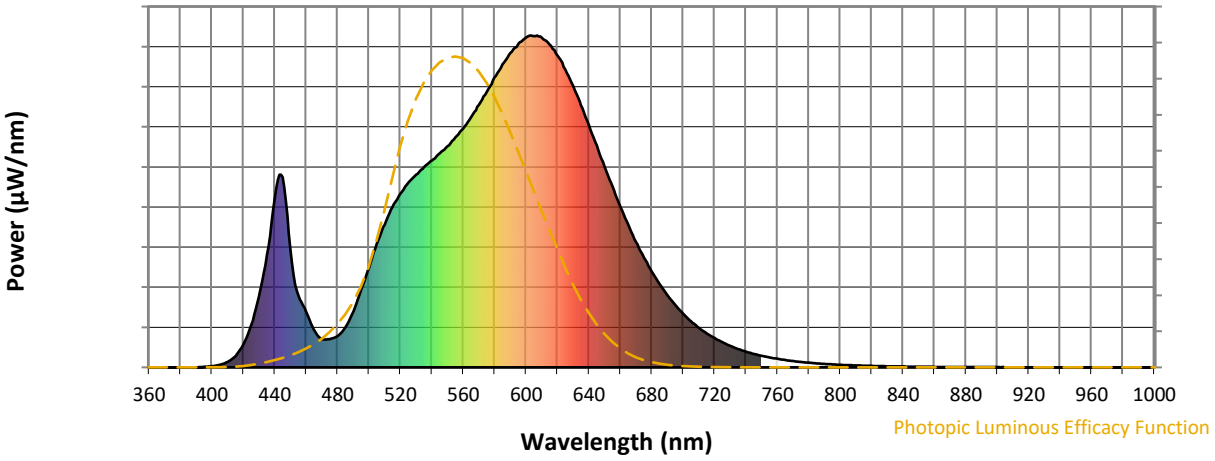


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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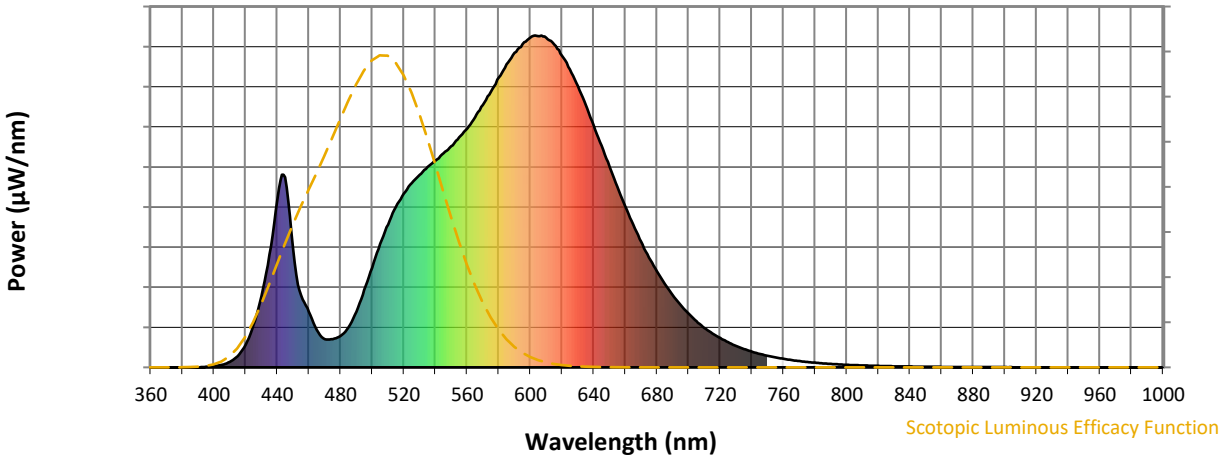
Scotopic Flux vs. Wavelength



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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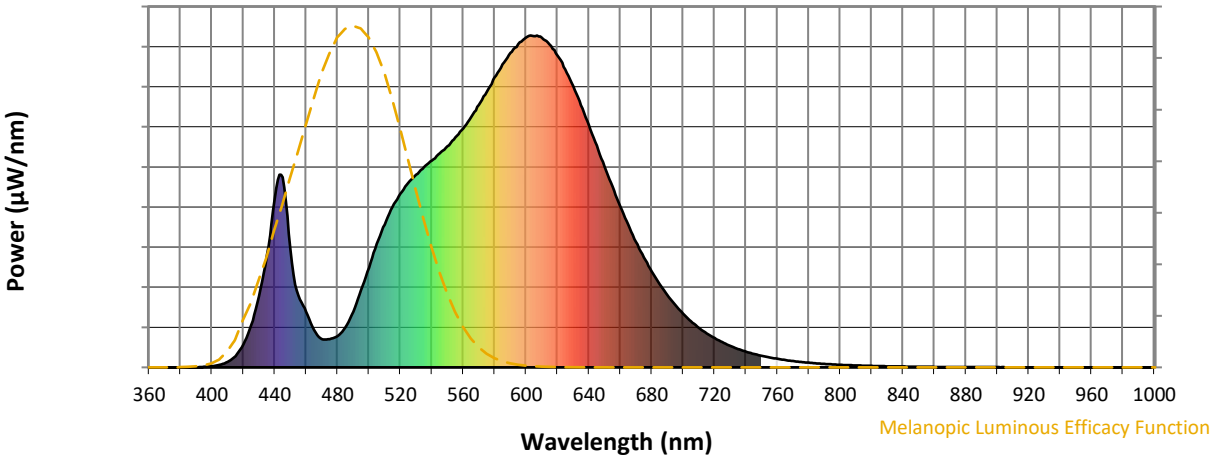
Melanopic Flux vs. Wavelength



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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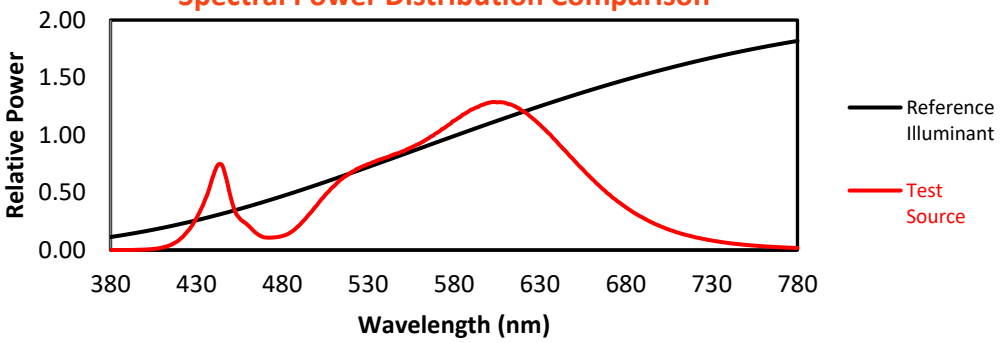
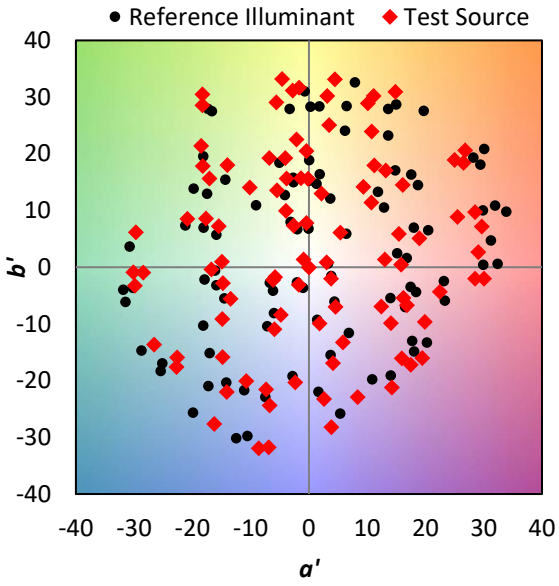
Summary

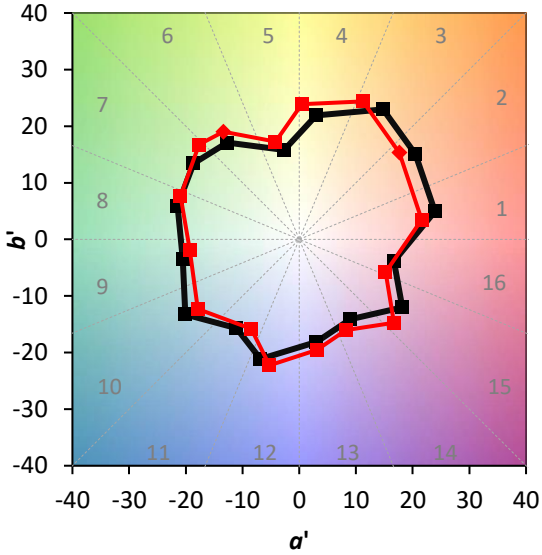
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

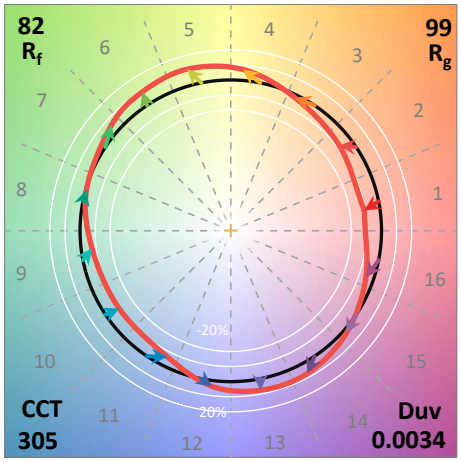
Spectral Power Distribution Comparison

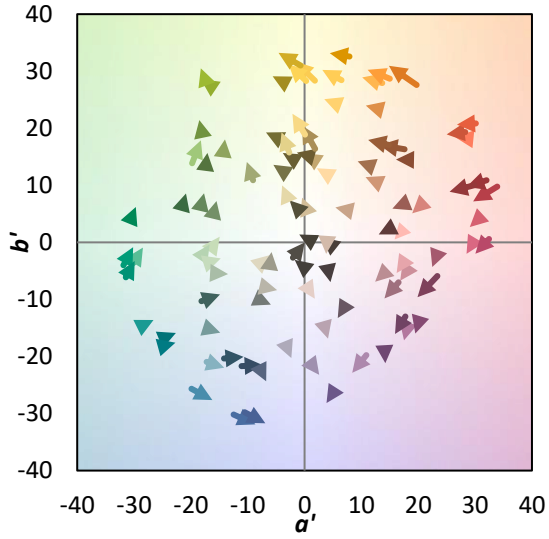


Color Vector Graphics









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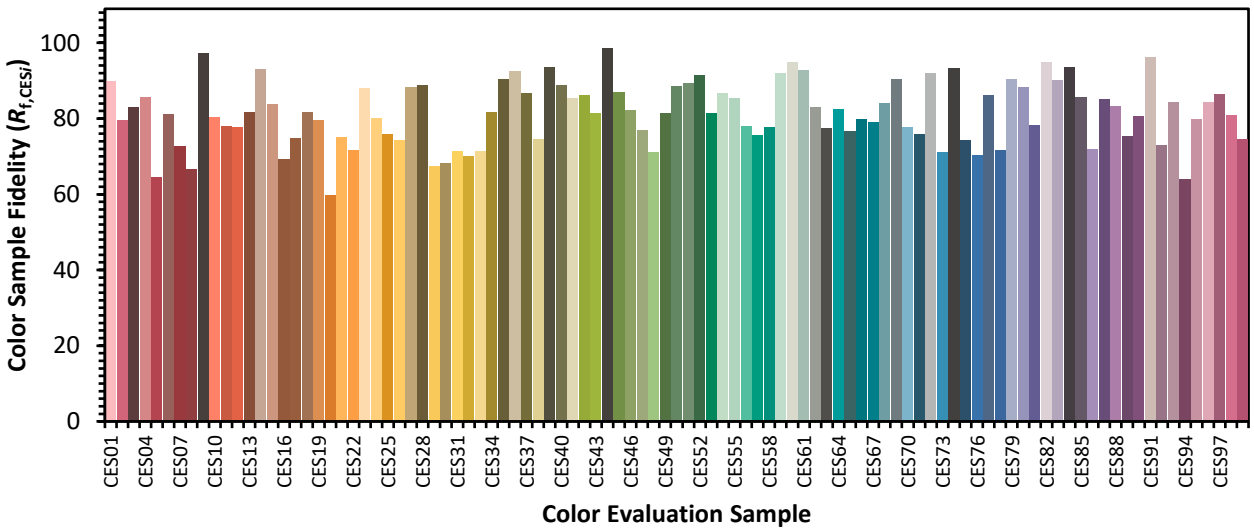
Individual Sample Fidelity Index ($R_{f,i}$)

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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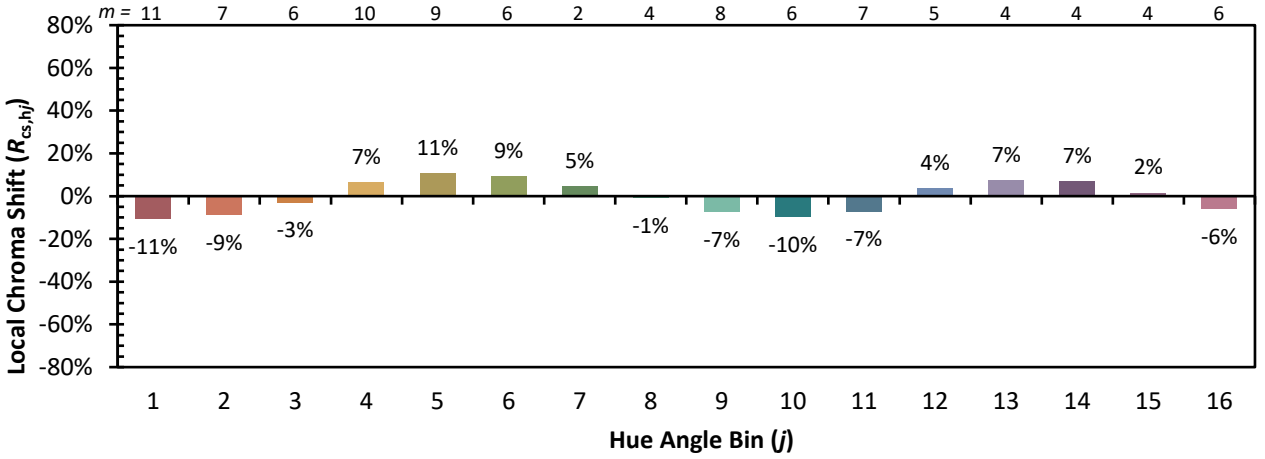
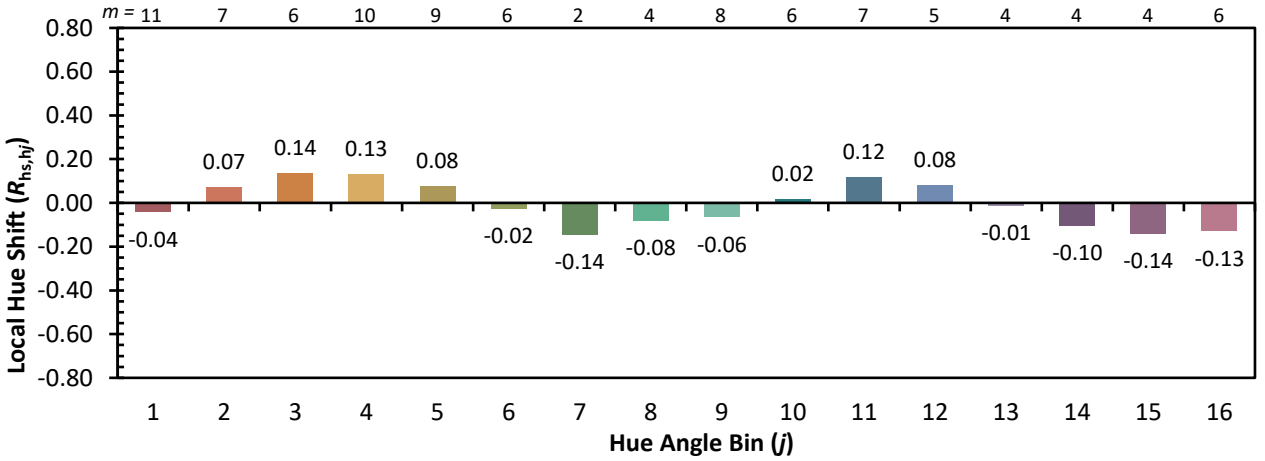
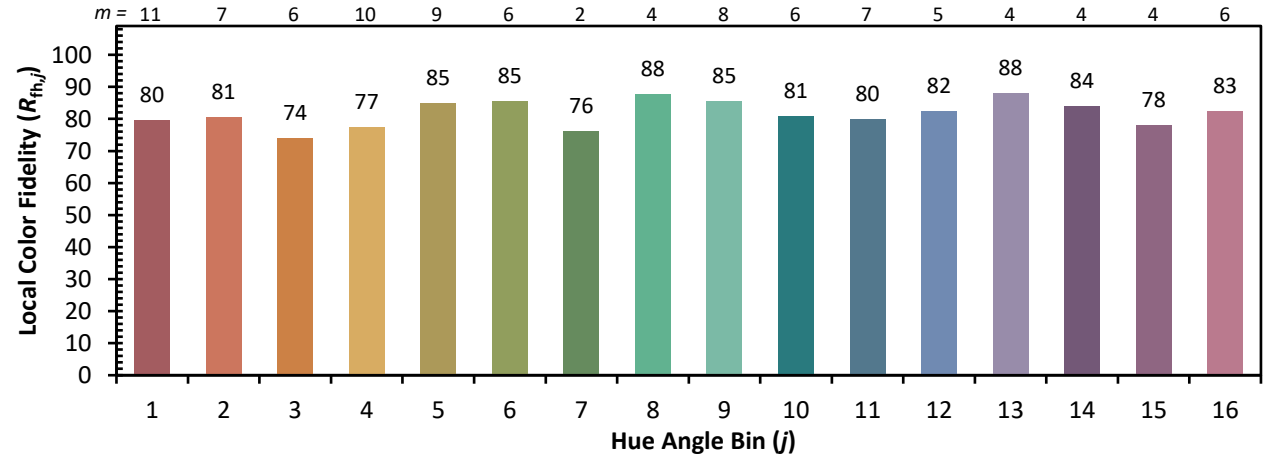
Color Rendition by Hue-Angle Bin







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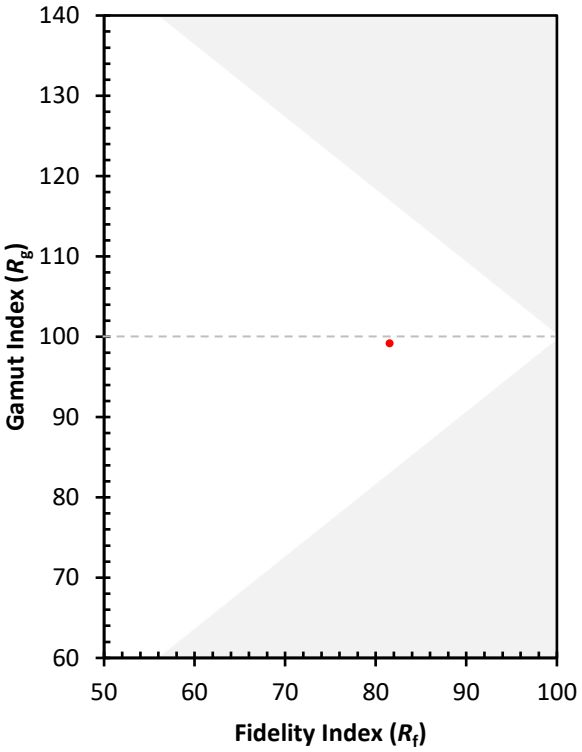
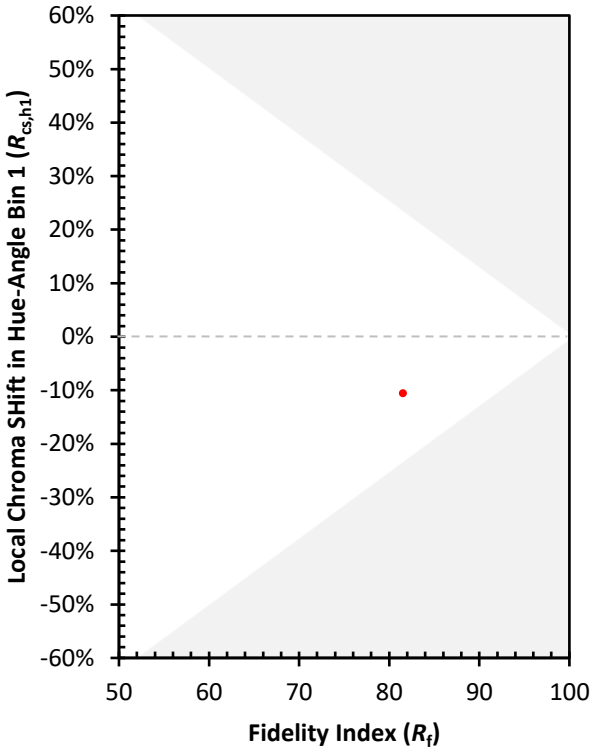
Measure Comparisons





(END OF REPORT)