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: P642438

Luminaire Tested: GWS-SA6C-830-U-SL4-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:	P642438
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21663 lumens
Efficiency:	N/A
Efficacy:	114.5 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	189.2
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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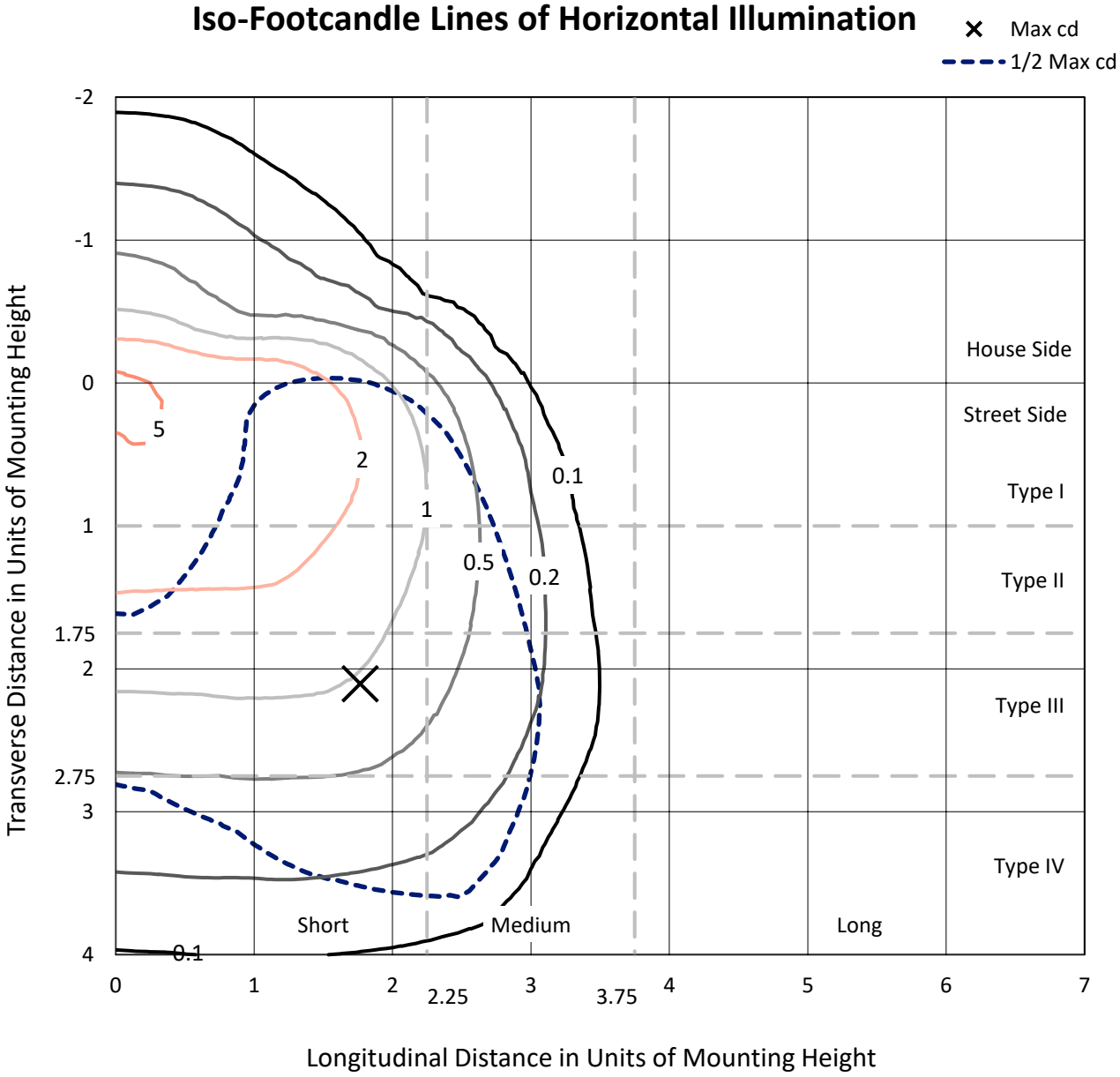
Scaled Data Report

REPORT NUMBER: P642438
CATALOG NUMBER: GWS-SA6C-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - N/A

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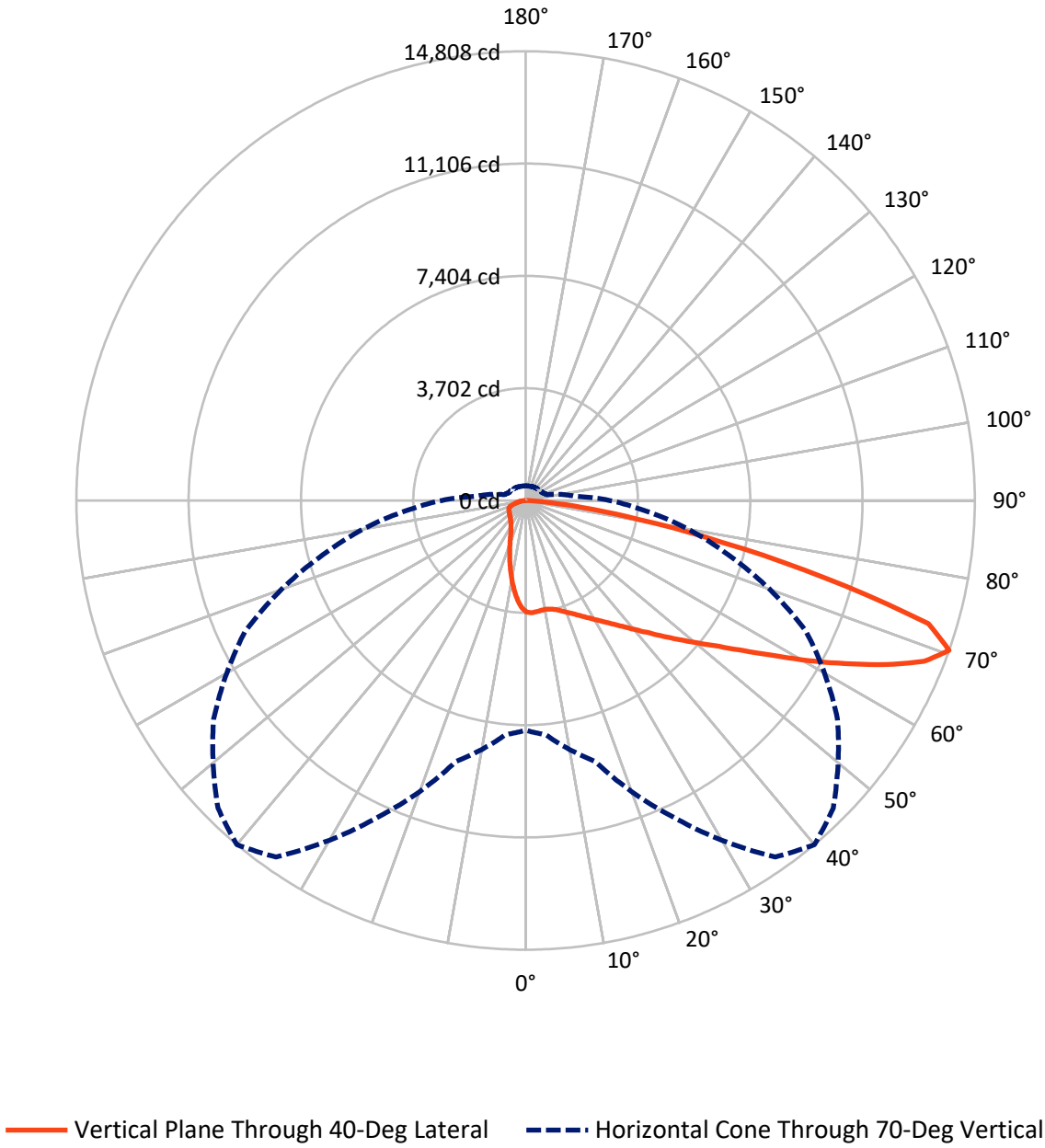
Luminous Intensity Polar Plot



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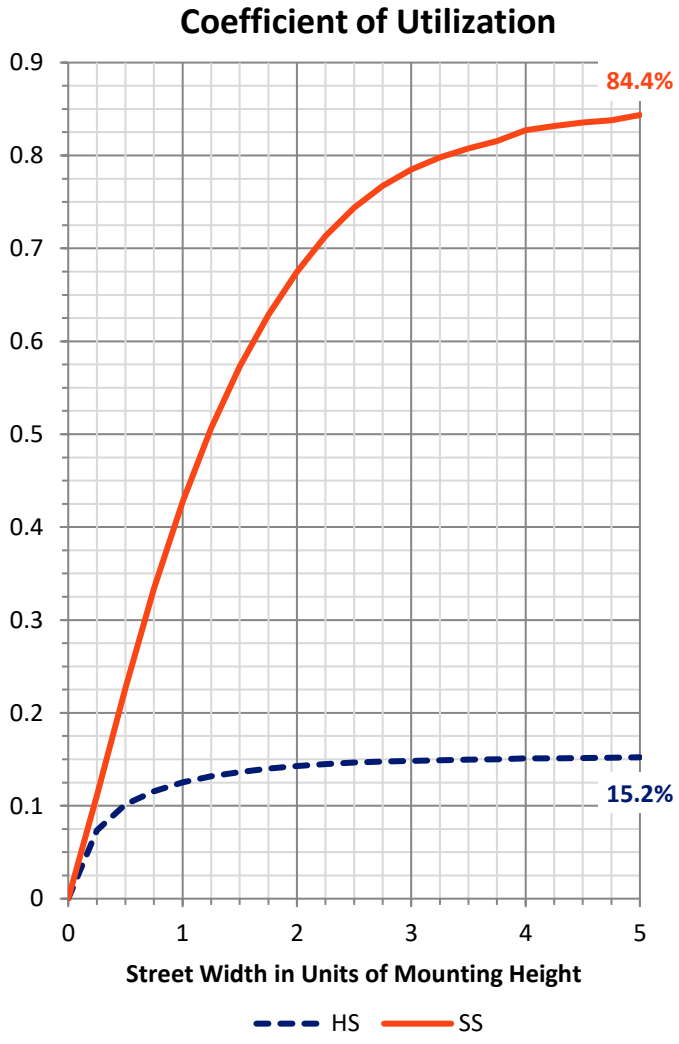
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3336.7	0.0	3336.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18326.4	0.0	18326.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	21663.0	0.0	21663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.0	1.5
10°-20°	847.1	3.9
20°-30°	1330.1	6.1
30°-40°	1999.8	9.2
40°-50°	3086.7	14.2
50°-60°	4584.0	21.2
60°-70°	5778.1	26.7
70°-80°	3341.4	15.4
80°-90°	370.8	1.7
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°	21663.0	100.0
0°-180°	21663.0	100.0



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REPORT NUMBER: P642438
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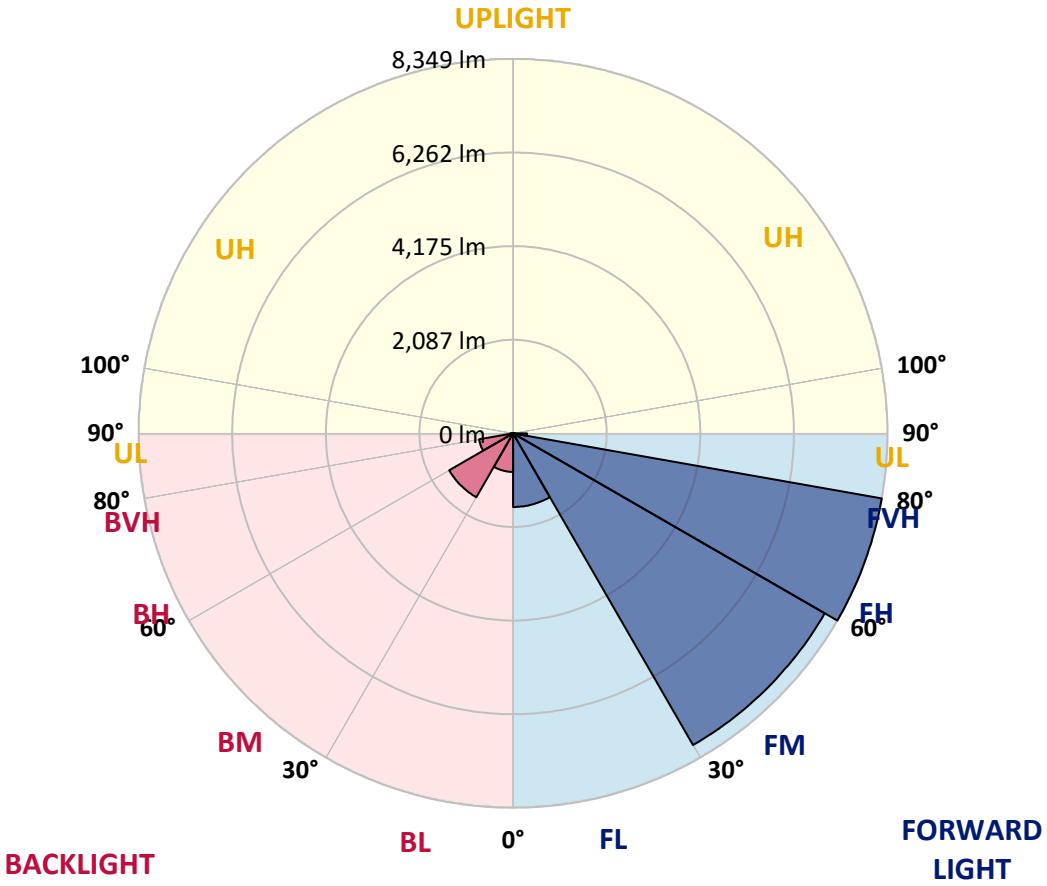
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1642.2	7.6			
FM	(30°-60°)	8025.9	37.0			
FH	(60°-80°)	8349.4	38.5			G4/12000
FVH	(80°-90°)	308.8	1.4			G3/500
BL	(0°-30°)	859.9	4.0	B2/1000		
BM	(30°-60°)	1644.7	7.6	B2/2500		
BH	(60°-80°)	770.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	62.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type IV Short



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Scaled Data Report

REPORT NUMBER: P642438
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3678.6	3678.6	3678.6	3678.6	3678.6	*3678.6*	3678.6	3678.6	3678.6	3678.6	3678.6
2.5°	3701.3	3707.7	3712.6	3719.1	3715.8	*3706.1*	3714.2	3714.2	3696.4	3677.0	3659.2
5°	3706.1	3714.2	3712.6	3711.0	3698.0	*3681.9*	3681.9	3672.2	3641.4	3610.7	3581.6
7.5°	3696.4	3694.8	3693.2	3688.3	3673.8	*3656.0*	3652.8	3633.4	3592.9	3550.9	3508.8
10°	3652.8	3651.1	3656.0	3667.3	3664.1	*3647.9*	3647.9	3630.1	3583.2	3531.5	3476.5
12.5°	3617.2	3617.2	3636.6	3667.3	3678.6	*3672.2*	3673.8	3660.8	3607.5	3546.0	3481.4
15°	3622.0	3623.6	3665.7	3715.8	3736.8	*3732.0*	3733.6	3719.1	3659.2	3597.8	3510.5
17.5°	3654.4	3662.5	3735.2	3804.8	3832.2	*3825.8*	3814.5	3790.2	3722.3	3652.8	3546.0
20°	3722.3	3735.2	3829.0	3916.3	3948.7	*3934.1*	3914.7	3866.2	3791.8	3715.8	3584.8
22.5°	3856.5	3864.6	3968.1	4053.8	4079.6	*4061.8*	4023.0	3953.5	3867.8	3788.6	3631.7
25°	4045.7	4055.4	4154.0	4233.2	4226.8	*4205.8*	4152.4	4066.7	3964.8	3880.7	3699.6
27.5°	4270.4	4286.6	4383.6	4446.7	4404.6	*4373.9*	4314.1	4210.6	4095.8	4019.8	3803.1
30°	4516.2	4522.7	4605.2	4668.2	4603.5	*4561.5*	4488.7	4377.2	4273.7	4217.1	3958.4
32.5°	4753.9	4760.4	4831.5	4867.1	4799.2	*4768.5*	4705.4	4587.4	4514.6	4483.9	4189.6
35°	5004.5	5002.9	5061.1	5091.9	5022.3	*5009.4*	4944.7	4854.2	4841.2	4881.7	4527.5
37.5°	5255.2	5240.6	5271.3	5311.8	5273.0	*5285.9*	5243.9	5213.1	5263.3	5368.4	4977.1
40°	5455.7	5455.7	5488.0	5538.2	5551.1	*5607.7*	5583.4	5623.9	5785.5	6036.2	5533.3
42.5°	5633.6	5635.2	5703.1	5780.7	5874.5	*5961.8*	5981.2	6086.3	6421.0	6813.9	6231.8
45°	5819.5	5821.1	5913.3	6026.5	6225.4	*6391.9*	6430.7	6666.8	7145.4	7624.1	6990.2
47.5°	6034.6	6016.8	6144.5	6333.7	6616.7	*6856.0*	6956.2	7291.0	7895.7	8484.3	7704.9
50°	6277.1	6239.9	6382.2	6708.8	7058.1	*7386.4*	7554.5	7937.7	8701.0	9278.2	8377.6
52.5°	6550.4	6529.4	6678.1	7075.9	7609.5	*7987.9*	8215.9	8718.7	9483.6	10068.9	8911.2
55°	6889.9	6839.8	7054.9	7561.0	8256.3	*8738.2*	9008.2	9491.7	10339.0	10786.9	9318.6
57.5°	7261.8	7206.9	7494.7	8167.4	9097.1	*9625.9*	9963.8	10361.6	11144.2	11336.6	9558.0
60°	7662.9	7645.1	7986.3	8878.8	10099.6	*10714.1*	10958.3	11318.8	11844.4	11655.2	9498.1
62.5°	8029.9	8023.4	8519.9	9650.1	11162.0	*11837.9*	12031.9	12127.3	12348.9	11634.2	9022.7
65°	8416.4	8471.3	9142.4	10544.3	12379.6	*13042.5*	13123.4	12880.8	12518.6	11082.8	8049.3
67.5°	8464.9	8571.6	9533.7	11381.9	13534.1	*14159.9*	14095.2	13167.1	12017.4	9548.3	6309.4
70°	*7570.7*	*7756.6*	*8909.6*	*11509.7*	*14347.4*	*14808.3*	*14341.0*	*12551.0*	*10198.3*	*6917.4*	*3968.1*
72.5°	6325.6	6485.7	7504.4	9815.1	13298.0	*13885.0*	13252.8	10623.5	7206.9	3968.1	2021.2
75°	4923.7	5109.7	6049.1	7801.9	9955.7	*10190.2*	9873.3	7409.0	3961.6	1636.4	918.4
77.5°	3004.3	3138.6	3869.4	5285.9	6965.9	*6615.1*	5606.1	4154.0	1738.3	784.2	567.6
80°	1329.2	1411.6	1906.4	2839.4	4024.7	*3804.8*	2999.5	1773.8	950.8	498.0	396.2
82.5°	713.1	766.4	939.5	1123.8	1767.4	*1848.2*	1498.9	1021.9	511.0	284.6	226.4
85°	313.7	344.4	426.9	407.5	580.5	*570.8*	575.6	701.8	244.2	131.0	147.1
87.5°	0.0	0.0	0.0	0.0	1.6	*1.6*	17.8	93.8	24.3	38.8	34.0
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: P642438
CATALOG NUMBER: GWS-SA6C-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6	3678.6
2.5°	3639.8	3610.7	3602.6	3592.9	3575.1	3544.4	3521.8	3495.9	3484.6	3471.7	3473.3
5°	3549.3	3513.7	3479.7	3436.1	3381.1	3319.7	3277.6	3229.1	3203.2	3179.0	3185.4
7.5°	3471.7	3416.7	3347.1	3255.0	3156.3	3046.4	2957.5	2887.9	2841.0	2808.7	2824.9
10°	3423.1	3358.5	3237.2	3086.8	2920.3	2752.1	2624.4	2504.7	2430.3	2372.1	2368.9
12.5°	3413.4	3329.4	3153.1	2934.8	2693.9	2469.1	2281.6	2119.9	2021.2	1948.5	1975.9
15°	3423.1	3316.4	3080.3	2794.1	2490.1	2186.2	1953.3	1767.4	1649.3	1583.0	1578.2
17.5°	3434.5	3303.5	2997.9	2642.1	2276.7	1929.1	1659.0	1461.7	1340.5	1274.2	1275.8
20°	3444.2	3284.1	2900.9	2475.6	2060.0	1689.7	1410.0	1222.4	1114.1	1065.6	1073.7
22.5°	3460.3	3264.7	2797.4	2297.7	1838.5	1458.5	1212.7	1060.7	996.1	963.7	965.3
25°	3491.1	3253.4	2690.7	2103.7	1620.2	1274.2	1076.9	975.0	934.6	915.2	913.6
27.5°	3554.1	3263.1	2579.1	1916.1	1422.9	1133.5	989.6	923.3	895.8	882.9	881.3
30°	3659.2	3301.9	2482.1	1725.3	1253.2	1023.5	929.8	889.3	873.2	861.8	860.2
32.5°	3819.3	3374.6	2377.0	1547.4	1115.7	942.7	882.9	861.8	850.5	844.1	844.1
35°	4061.8	3507.2	2273.5	1392.2	1009.0	879.6	845.7	837.6	827.9	824.7	827.9
37.5°	4411.1	3719.1	2179.7	1256.4	933.0	831.1	805.3	808.5	800.4	805.3	810.1
40°	4854.2	4002.0	2100.5	1144.8	876.4	795.6	769.7	781.0	776.1	781.0	789.1
42.5°	5415.3	4352.9	2040.6	1057.5	836.0	766.4	742.2	753.5	750.3	756.7	764.8
45°	6041.0	4815.4	2013.1	996.1	806.9	745.4	719.6	727.6	724.4	729.3	737.3
47.5°	6640.9	5235.8	2037.4	960.5	782.6	727.6	700.2	703.4	701.8	700.2	705.0
50°	7158.4	5570.5	2106.9	949.2	766.4	709.9	684.0	685.6	680.7	671.0	674.3
52.5°	7580.4	5838.9	2149.0	949.2	758.4	690.4	666.2	667.8	658.1	645.2	646.8
55°	7858.5	5947.2	2115.0	947.5	755.1	674.3	648.4	650.0	640.3	624.2	625.8
57.5°	7937.7	5842.1	1972.7	929.8	751.9	661.3	630.6	633.9	627.4	609.6	609.6
60°	7716.2	5457.3	1712.4	889.3	743.8	653.3	617.7	622.5	619.3	601.5	601.5
62.5°	7135.7	4773.3	1401.9	827.9	721.2	643.6	606.4	616.1	624.2	614.5	612.8
65°	6049.1	3824.2	1140.0	760.0	692.1	627.4	590.2	614.5	632.2	645.2	645.2
67.5°	4538.9	2737.5	929.8	688.8	648.4	595.0	569.2	591.8	604.7	612.8	617.7
70°	*2766.7*	*1610.5*	*732.5*	*606.4*	*585.3*	*546.5*	*527.1*	*504.5*	*486.7*	*483.5*	*485.1*
72.5°	1353.4	921.7	595.0	515.8	499.6	464.1	420.4	410.7	402.6	397.8	396.2
75°	745.4	641.9	491.6	428.5	399.4	355.7	346.0	329.9	326.6	320.2	321.8
77.5°	527.1	506.1	405.9	347.7	304.0	281.4	286.2	274.9	274.9	270.0	268.4
80°	396.2	397.8	312.1	253.9	224.8	216.7	221.5	221.5	218.3	216.7	215.1
82.5°	250.6	283.0	210.2	163.3	160.1	161.7	160.1	158.5	161.7	156.8	155.2
85°	173.0	203.7	127.7	97.0	97.0	95.4	98.6	97.0	100.3	95.4	95.4
87.5°	38.8	90.6	46.9	29.1	30.7	29.1	30.7	32.3	35.6	37.2	37.2
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

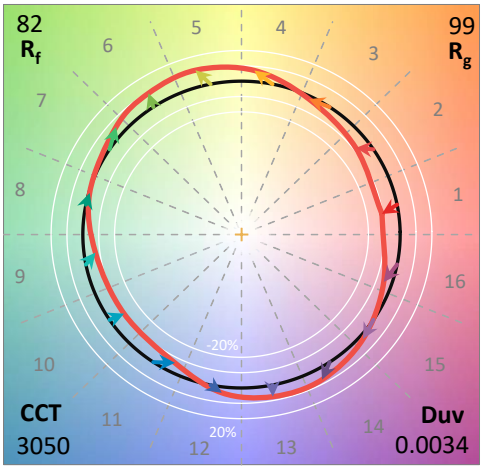
Test Information

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

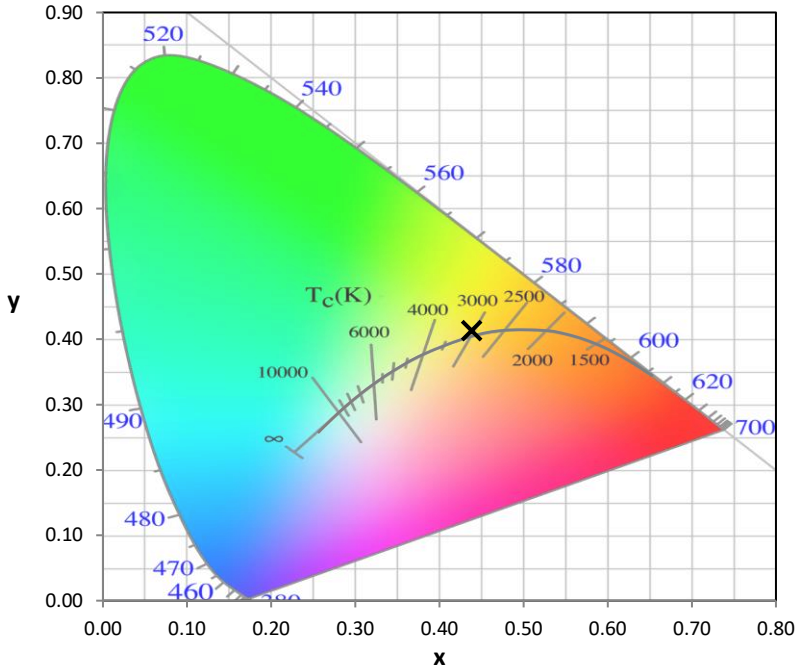
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

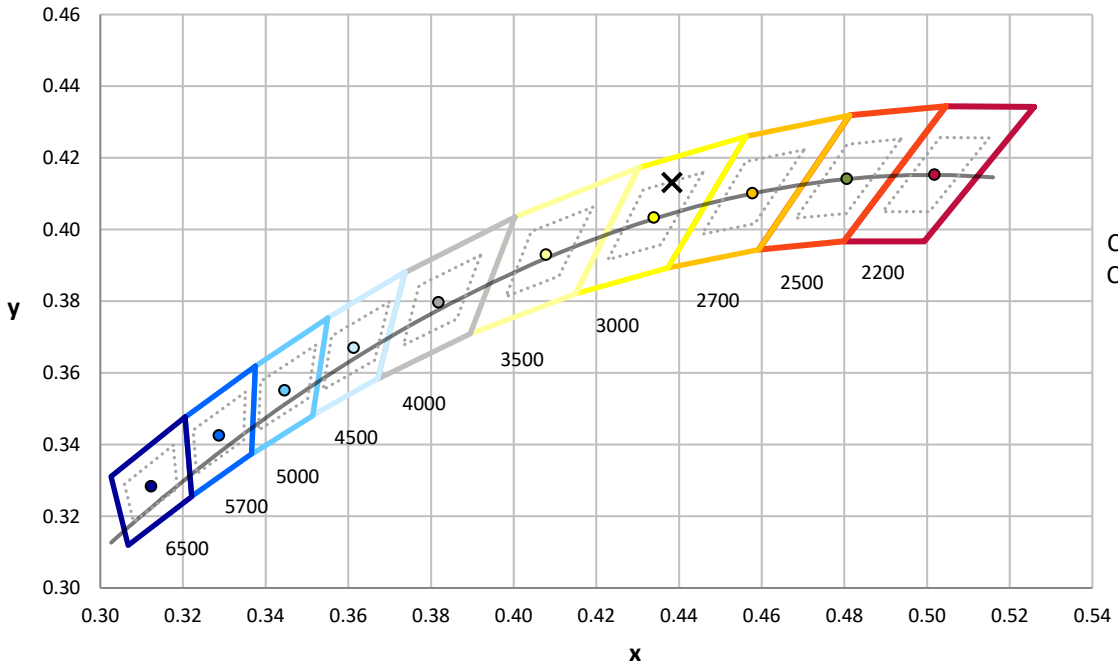
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

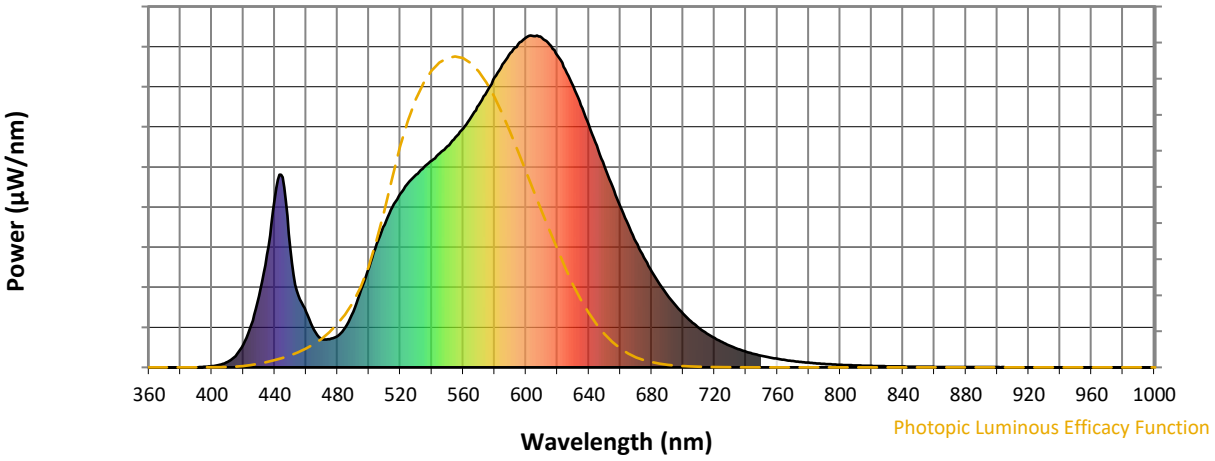


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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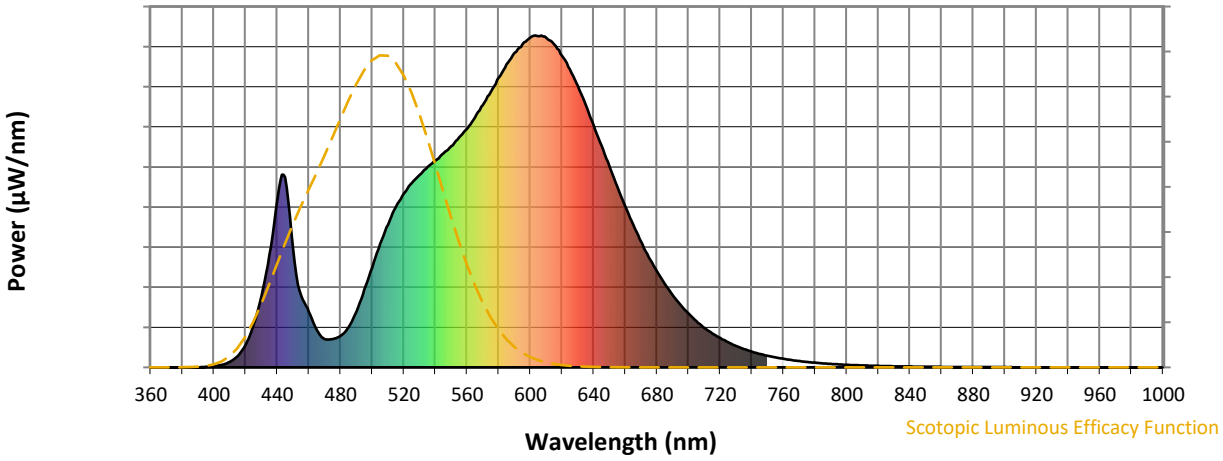
Scotopic Flux vs. Wavelength



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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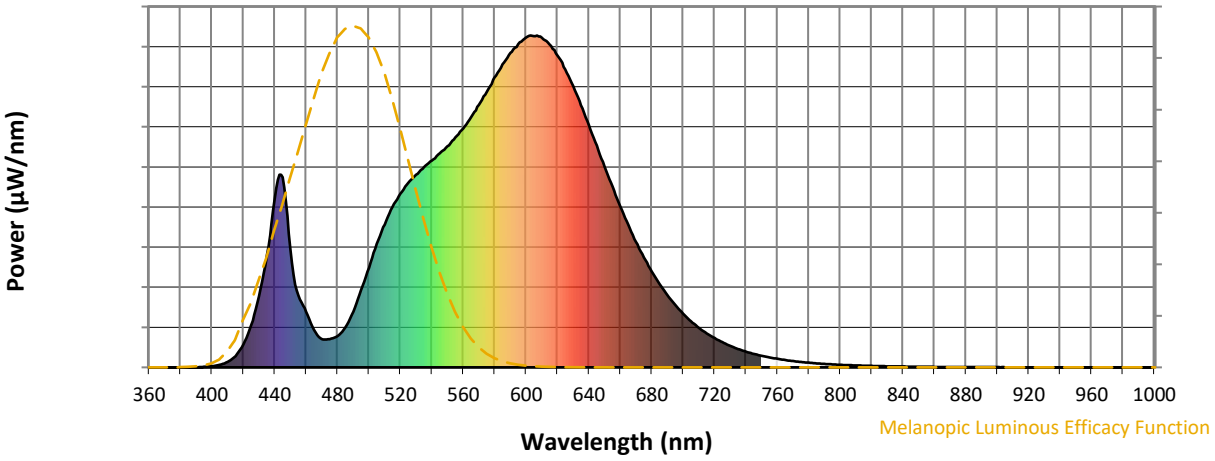
Melanopic Flux vs. Wavelength



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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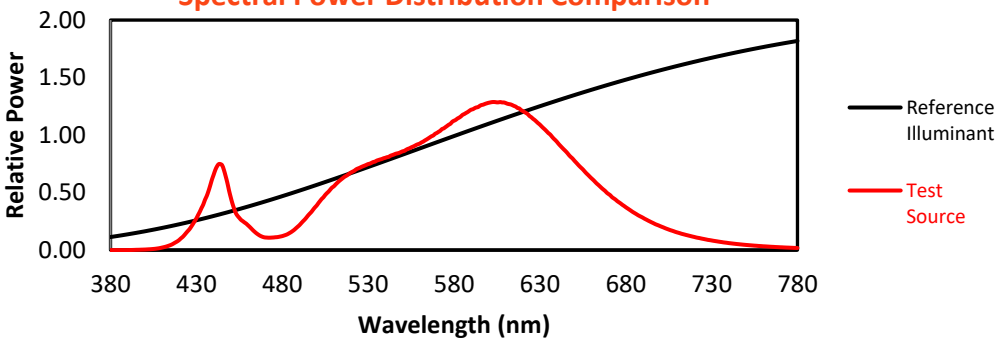
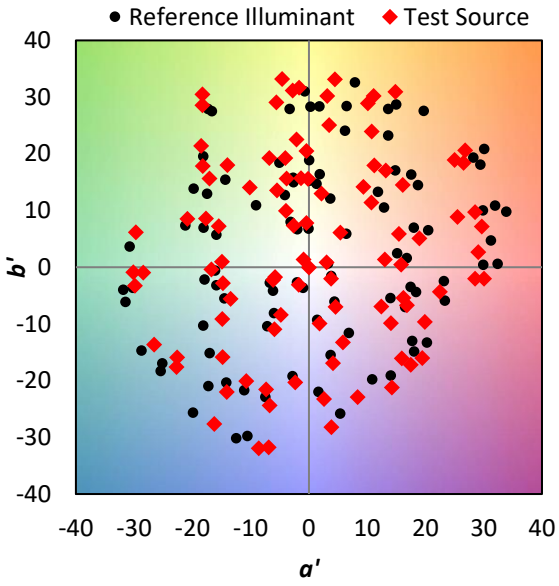
Summary

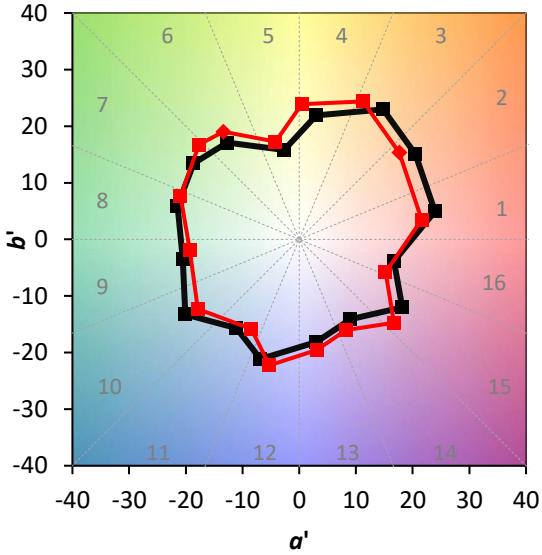
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

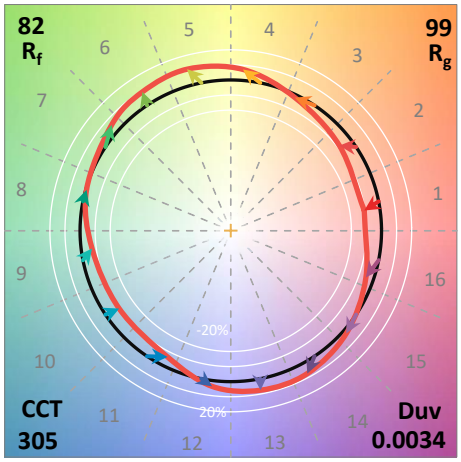
Spectral Power Distribution Comparison

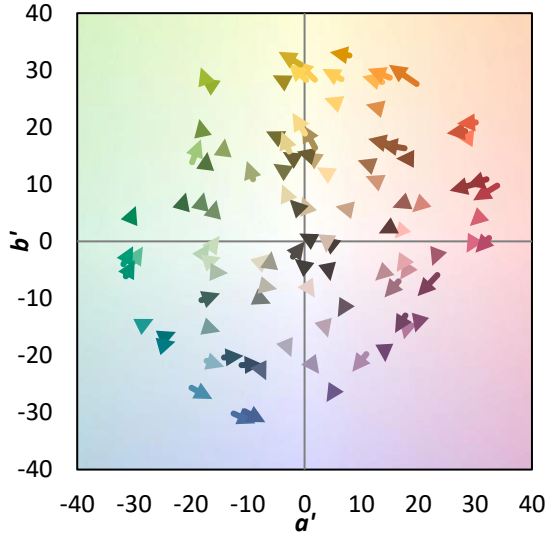


Color Vector Graphics









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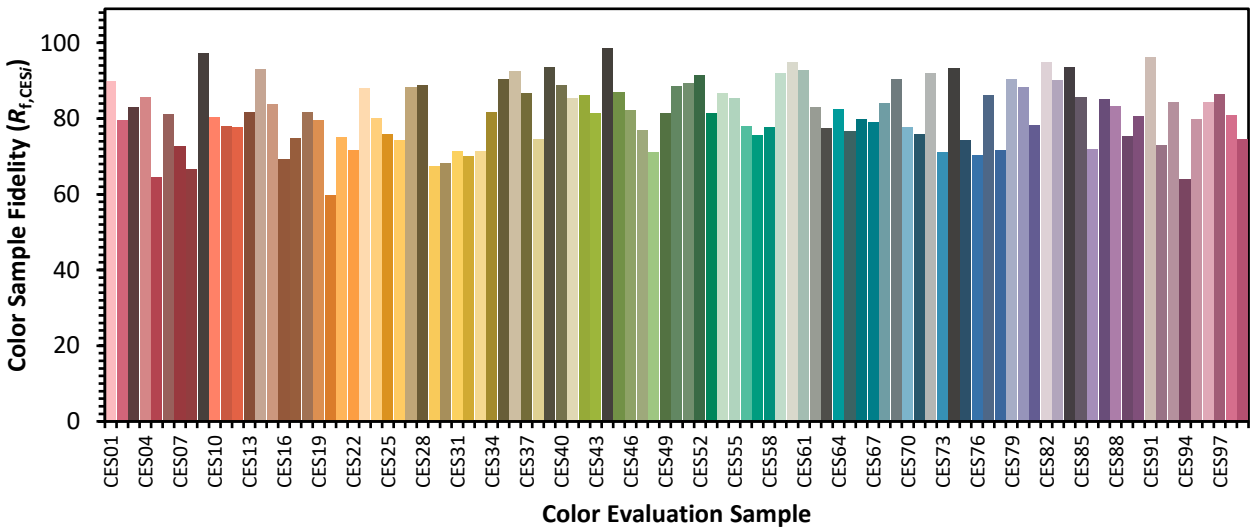
Individual Sample Fidelity Index ($R_{f,i}$)

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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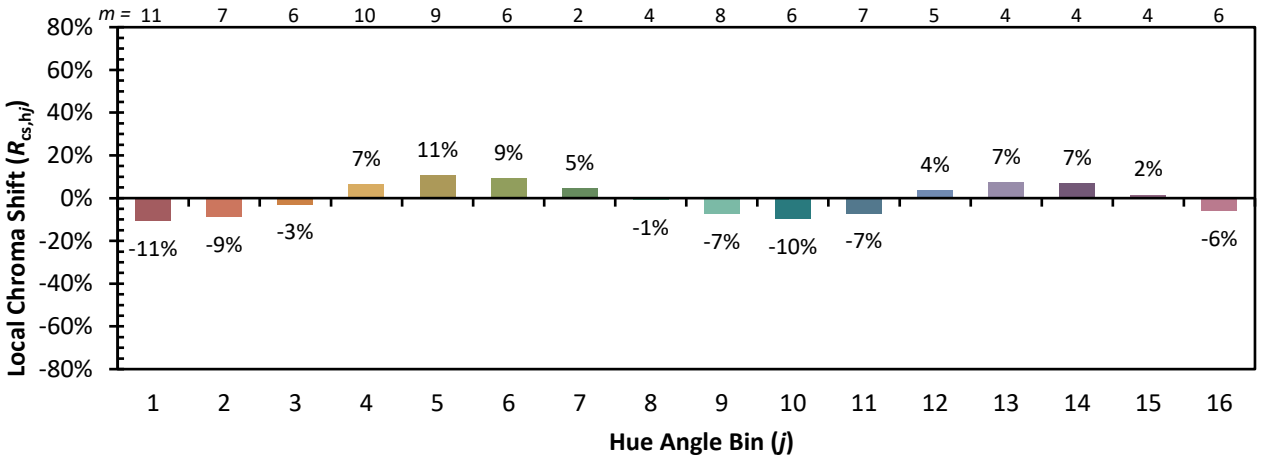
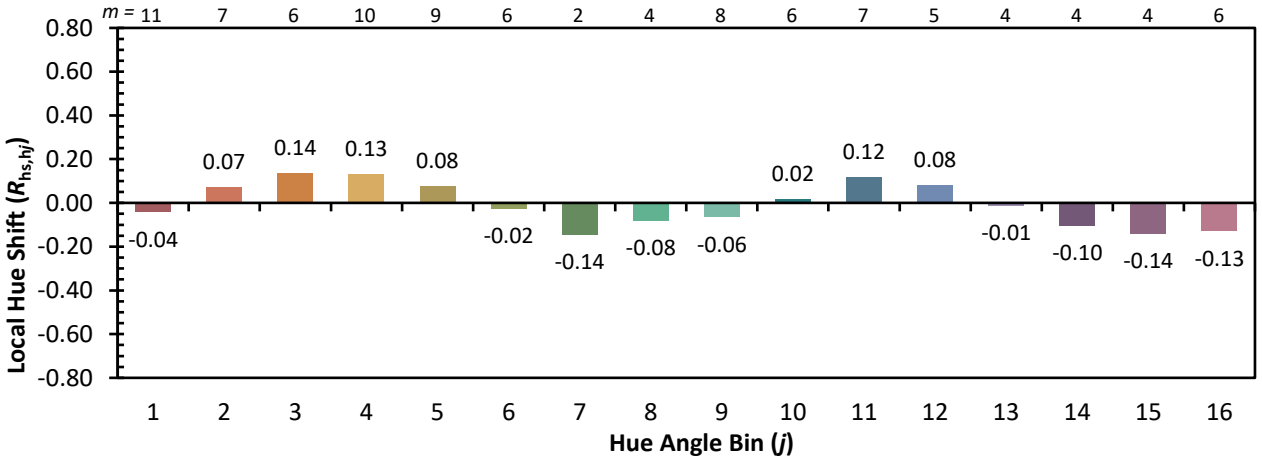
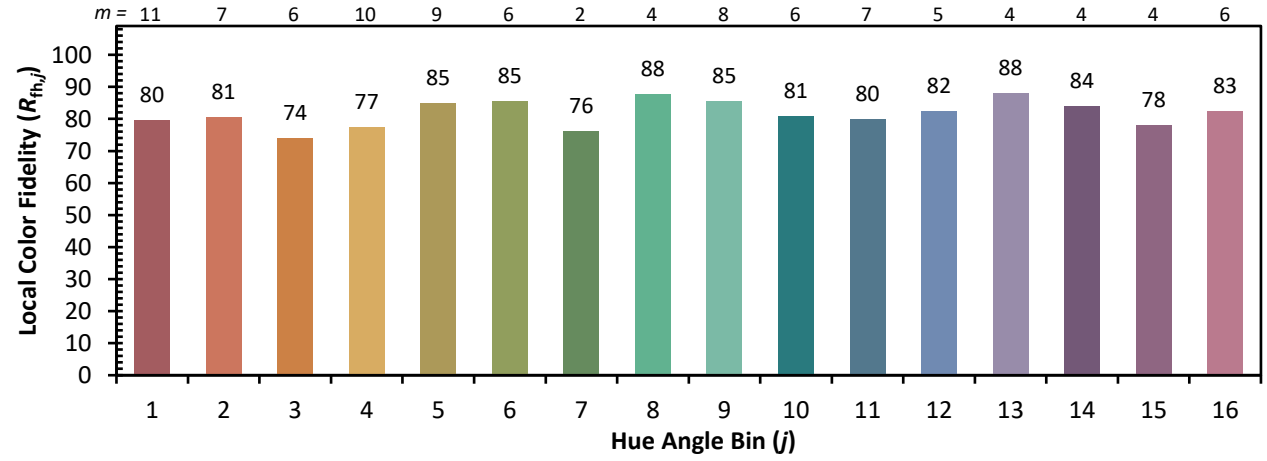
Color Rendition by Hue-Angle Bin







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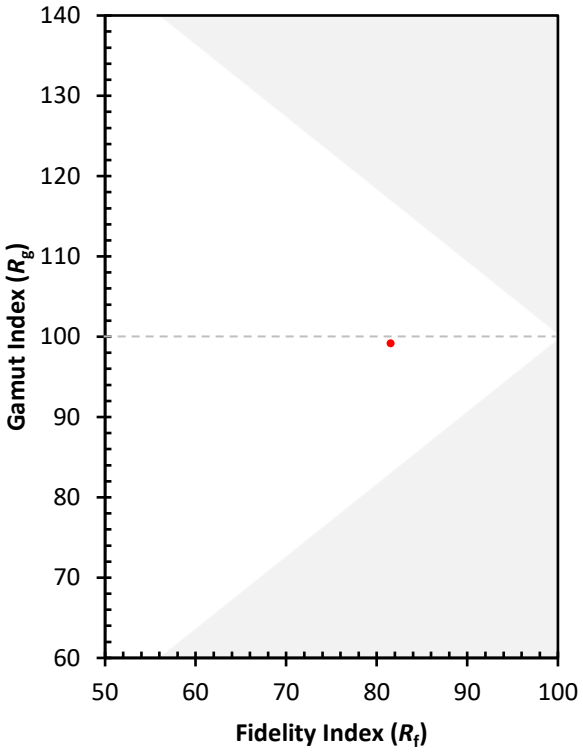
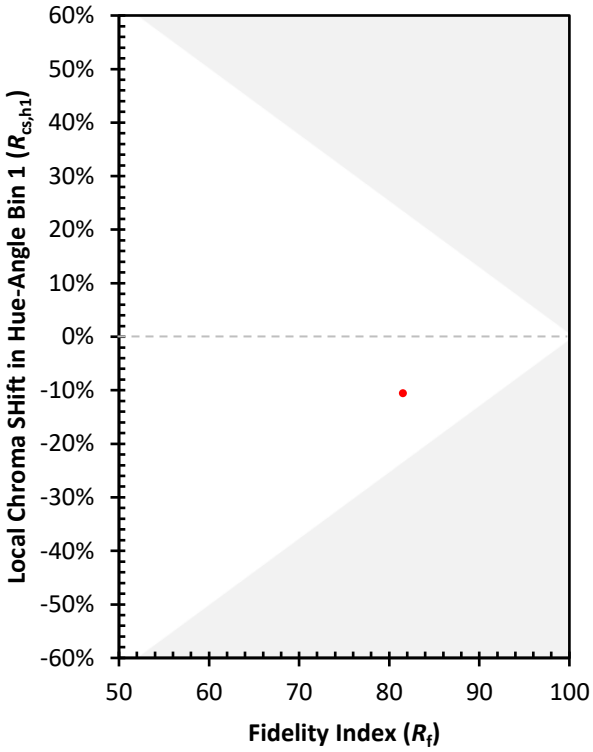
Measure Comparisons





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