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: P637474

Luminaire Tested: GWS-SA4C-830-U-AFL-W-HSS

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:	P637474
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-AFL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12931.5 lumens
Efficiency:	N/A
Efficacy:	100.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	128.5
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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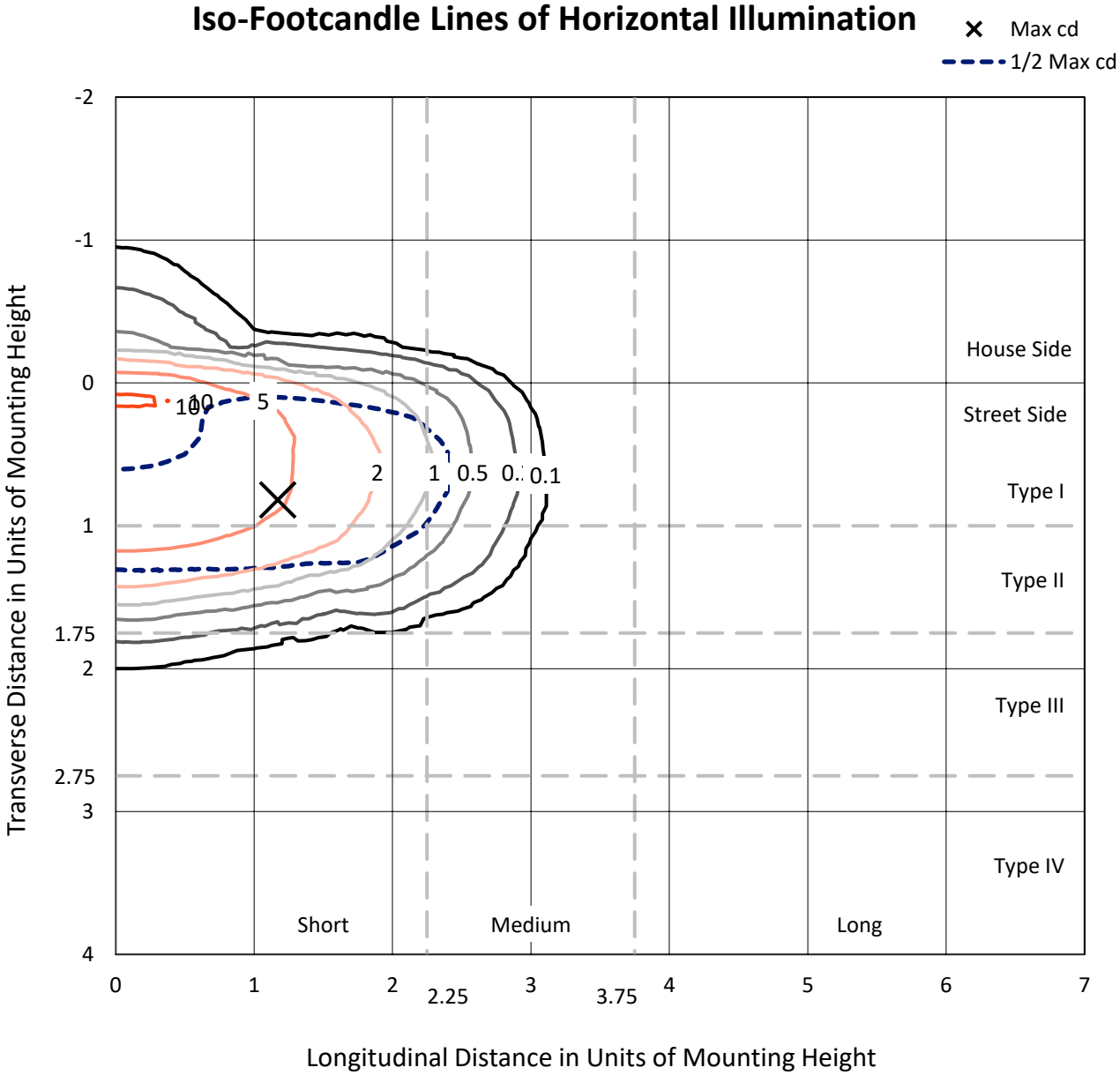
Scaled Data Report

REPORT NUMBER: P637474
CATALOG NUMBER: GWS-SA4C-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Short - N/A

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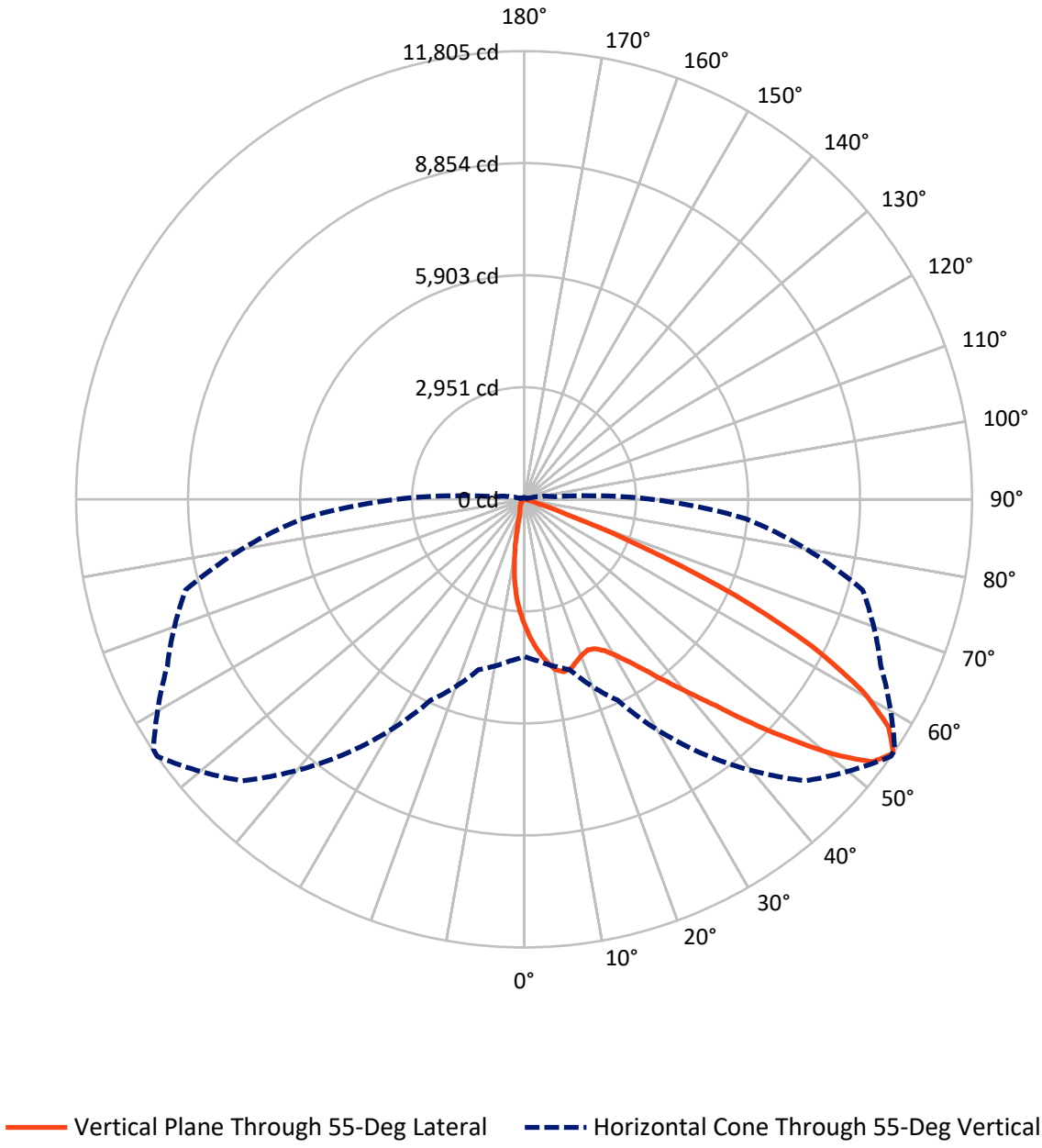
Luminous Intensity Polar Plot



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REPORT NUMBER: P637474
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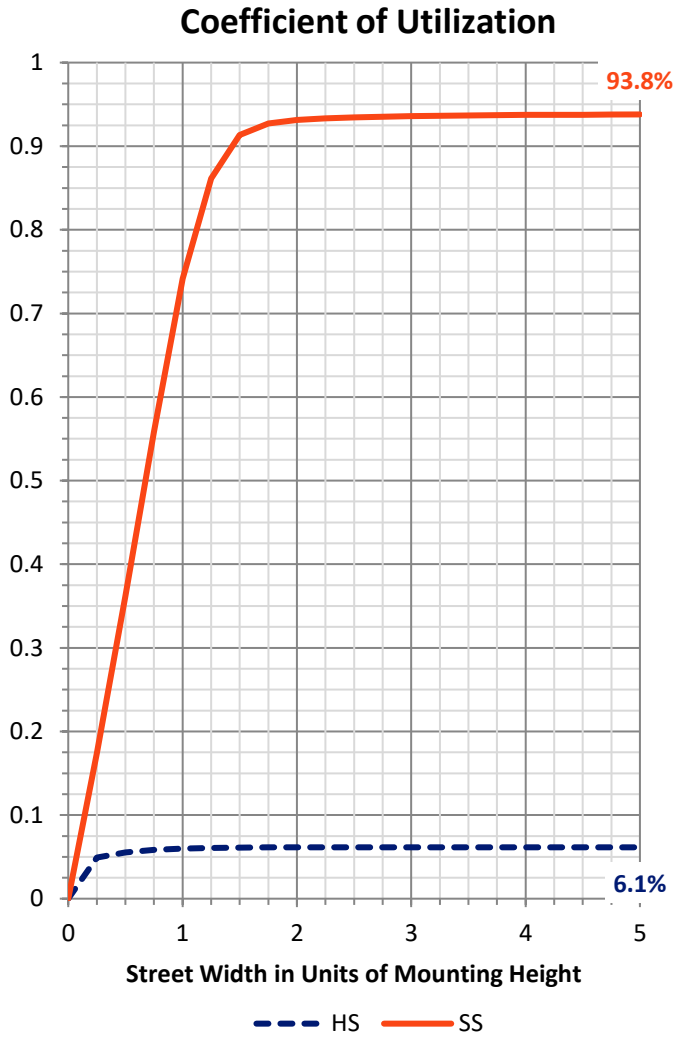
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	797.9	0.0	797.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12133.6	0.0	12133.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	12931.5	0.0	12931.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	2.3
10°-20°	711.8	5.5
20°-30°	1185.4	9.2
30°-40°	2020.0	15.6
40°-50°	3297.4	25.5
50°-60°	3452.2	26.7
60°-70°	1741.2	13.5
70°-80°	219.9	1.7
80°-90°	8.3	0.1
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°	12931.5	100.0
0°-180°	12931.5	100.0



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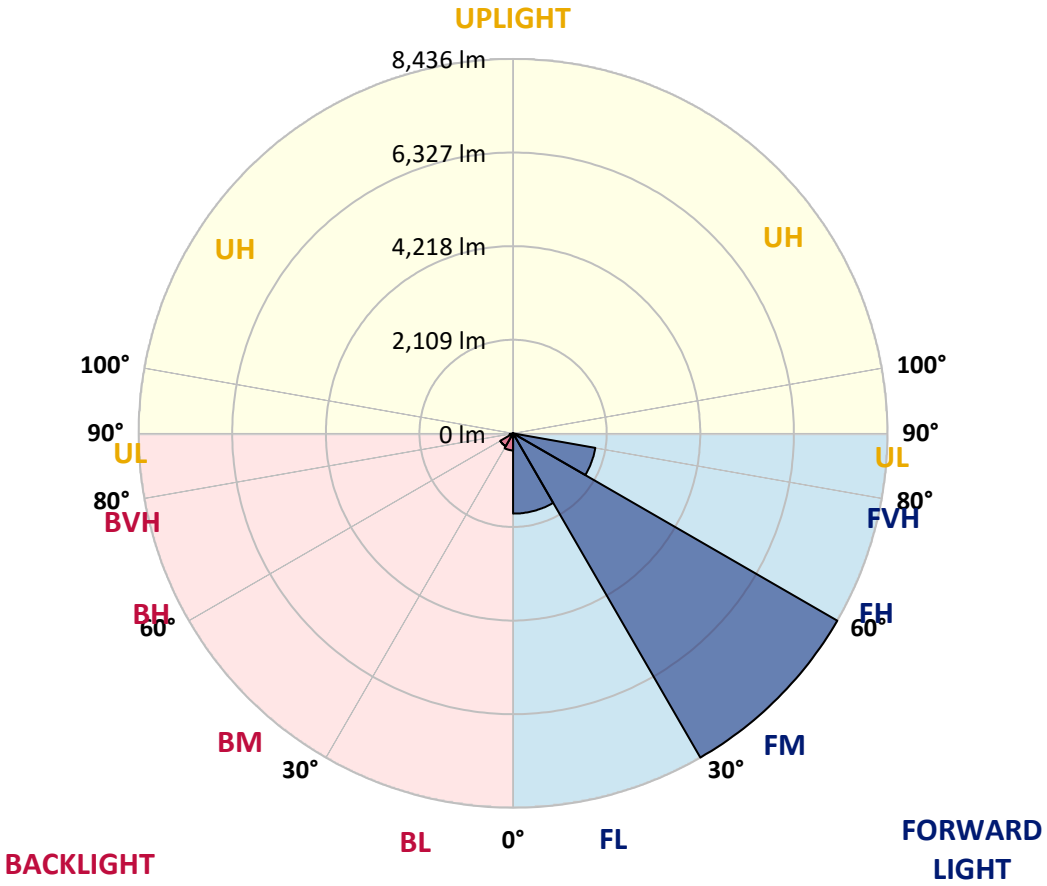
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1808.9	14.0			
FM	(30°-60°)	8435.9	65.2			
FH	(60°-80°)	1881.1	14.5			G2/5000
FVH	(80°-90°)	7.6	0.1			G0/10
BL	(0°-30°)	383.5	3.0	B1/500		
BM	(30°-60°)	333.6	2.6	B1/1000		
BH	(60°-80°)	80.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P637474
CATALOG NUMBER: GWS-SA4C-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	*3340.7*	3340.7	3340.7	3340.7	3340.7
2.5°	3894.6	3875.8	3904.5	3871.4	3815.0	3767.5	*3705.5*	3683.4	3583.9	3490.0	3399.3
5°	4367.7	4373.3	4364.4	4318.0	4238.4	4149.9	*4025.0*	3997.4	3823.8	3644.7	3451.3
7.5°	4484.9	4481.6	4500.4	4518.1	4504.8	4460.6	*4324.6*	4297.0	4081.4	3812.8	3530.9
10°	4123.4	4125.6	4164.3	4283.7	4431.8	4585.5	*4564.5*	4549.0	4337.9	4002.9	3619.3
12.5°	3612.7	3632.6	3673.5	3843.7	4094.7	4444.0	*4660.7*	4676.2	4573.3	4211.9	3723.2
15°	3391.6	3396.0	3429.2	3532.0	3718.8	4149.9	*4619.8*	4662.9	4770.1	4421.9	3836.0
17.5°	3386.1	3391.6	3406.0	3451.3	3572.9	3918.9	*4488.2*	4563.4	4918.3	4647.4	3970.9
20°	3593.9	3590.6	3580.6	3556.3	3609.4	3842.6	*4366.6*	4449.5	4999.0	4867.4	4106.8
22.5°	3970.9	3966.4	3922.2	3821.6	3778.5	3912.3	*4306.9*	4382.1	5047.6	5063.1	4218.5
25°	4405.3	4436.3	4353.4	4200.8	4094.7	4090.3	*4360.0*	4413.1	5089.6	5236.6	4294.8
27.5°	4881.8	4891.7	4821.0	4649.6	4496.0	4375.5	*4513.7*	4553.4	5136.0	5391.4	4337.9
30°	5404.7	5401.3	5320.6	5121.7	4934.8	4761.3	*4772.3*	4787.8	5244.4	5568.3	4385.4
32.5°	6058.0	6072.4	5928.7	5657.8	5433.4	5193.5	*5110.6*	5112.8	5440.0	5796.0	4457.3
35°	6945.7	6910.3	6720.2	6334.4	5951.9	5693.2	*5551.7*	5539.5	5741.8	6102.2	4582.2
37.5°	7791.4	7794.7	7595.7	7171.2	6688.1	6280.2	*6080.1*	6046.9	6166.3	6526.7	4790.0
40°	8378.4	8389.4	8306.5	8084.3	7572.5	6995.4	*6701.4*	6667.1	6716.9	7064.0	5062.0
42.5°	8689.0	8720.0	8743.2	8795.2	8407.1	7888.7	*7436.5*	7433.2	7381.2	7676.4	5377.0
45°	8701.2	8747.6	8889.1	9244.0	9288.2	8907.9	*8416.0*	8341.9	8141.8	8332.0	5658.9
47.5°	8220.3	8327.5	8628.2	9331.3	9795.6	9921.6	*9434.1*	9388.8	8827.2	8850.4	5870.1
50°	7099.4	7211.0	7764.8	8883.6	9923.8	10726.4	*10551.7*	10457.8	9399.8	9193.1	5971.8
52.5°	5949.7	6051.4	6427.2	7817.9	9392.1	10979.6	*11493.6*	11382.0	9913.9	9312.5	5929.8
55°	*4140.0*	*4276.0*	*4643.0*	*5843.5*	*8167.2*	*10486.5*	*11805.4*	*11782.1*	*10372.7*	*9237.3*	*5864.5*
57.5°	2029.7	2164.5	2530.4	3602.7	6050.3	9155.5	*11328.9*	11451.6	10646.8	9156.6	5811.5
60°	847.9	903.2	1029.2	1580.8	3385.0	6919.2	*10253.3*	10423.5	10478.8	9047.2	5805.9
62.5°	491.9	500.8	514.0	655.5	1316.6	3966.4	*8505.5*	8747.6	9595.5	8902.4	5718.6
65°	371.4	374.8	369.2	402.4	543.9	1504.6	*6145.3*	6474.8	8009.2	8336.4	5373.7
67.5°	305.1	305.1	290.7	297.4	341.6	563.8	*3392.7*	3852.6	5926.4	6851.7	4437.4
70°	243.2	248.7	242.1	233.3	244.3	311.7	*1207.2*	1496.8	3451.3	4046.0	2587.9
72.5°	184.6	184.6	195.7	189.0	181.3	195.7	*421.2*	473.1	1385.2	1687.0	934.1
75°	142.6	147.0	154.8	148.1	137.1	116.1	*202.3*	214.5	417.9	392.4	208.9
77.5°	73.0	74.1	98.4	108.3	101.7	70.8	*88.4*	97.3	136.0	121.6	77.4
80°	44.2	46.4	55.3	85.1	67.4	37.6	*36.5*	38.7	64.1	55.3	32.1
82.5°	18.8	19.9	31.0	31.0	27.6	14.4	*14.4*	14.4	31.0	28.7	13.3
85°	0.0	0.0	5.5	4.4	4.4	5.5	*5.5*	5.5	7.7	11.1	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	1.1	3.3	3.3
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: P637474
CATALOG NUMBER: GWS-SA4C-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7	3340.7
2.5°	3340.7	3270.0	3174.9	3088.7	2972.6	2907.4	2816.7	2742.7	2679.7	2659.8	2650.9
5°	3341.8	3220.2	3016.8	2813.4	2563.6	2366.8	2164.5	2004.2	1872.7	1830.7	1819.6
7.5°	3364.0	3184.9	2855.4	2486.2	2068.3	1723.4	1415.0	1138.6	1010.4	967.3	958.4
10°	3393.8	3155.0	2668.6	2093.8	1493.5	1050.2	744.0	567.1	483.1	436.7	443.3
12.5°	3432.5	3130.7	2461.9	1669.3	988.3	577.1	409.0	342.7	325.0	316.2	311.7
15°	3484.5	3102.0	2205.4	1248.1	605.8	371.4	315.1	297.4	290.7	286.3	285.2
17.5°	3537.5	3068.8	1944.5	877.7	402.4	308.4	283.0	274.2	269.7	266.4	265.3
20°	3593.9	3012.4	1638.3	604.7	317.3	277.5	260.9	250.9	245.4	239.9	238.8
22.5°	3618.2	2921.8	1345.4	423.4	281.9	255.4	234.4	222.2	215.6	211.1	211.1
25°	3595.0	2774.7	1042.5	321.7	256.5	231.0	210.0	196.8	191.2	186.8	186.8
27.5°	3533.1	2585.7	760.6	266.4	228.8	205.6	185.7	173.6	169.1	166.9	166.9
30°	3464.6	2346.9	536.2	228.8	197.9	179.1	162.5	154.8	153.7	151.4	151.4
32.5°	3406.0	2123.6	369.2	201.2	174.7	155.9	144.8	141.5	142.6	140.4	141.5
35°	3373.9	1904.7	274.2	179.1	155.9	138.2	132.7	132.7	132.7	131.6	131.6
37.5°	3387.2	1689.2	223.3	163.6	139.3	126.0	120.5	122.7	124.9	124.9	124.9
40°	3453.5	1497.9	197.9	149.2	124.9	115.0	110.5	113.9	117.2	119.4	119.4
42.5°	3537.5	1343.2	179.1	137.1	115.0	103.9	101.7	105.0	108.3	110.5	110.5
45°	3590.6	1187.3	160.3	121.6	105.0	91.8	91.8	96.2	95.1	96.2	96.2
47.5°	3614.9	1063.5	141.5	105.0	89.5	79.6	80.7	82.9	80.7	82.9	82.9
50°	3555.2	938.5	124.9	87.3	74.1	69.6	71.9	70.8	70.8	75.2	75.2
52.5°	3445.8	845.7	110.5	74.1	63.0	61.9	64.1	59.7	60.8	60.8	59.7
55°	*3365.1*	*792.6*	*98.4*	*64.1*	*54.2*	*55.3*	*54.2*	*46.4*	*42.0*	*37.6*	*36.5*
57.5°	3325.3	771.6	89.5	57.5	48.6	48.6	44.2	32.1	24.3	18.8	16.6
60°	3316.4	746.2	80.7	49.7	43.1	40.9	32.1	18.8	12.2	8.8	7.7
62.5°	3232.4	684.3	73.0	39.8	37.6	33.2	19.9	11.1	6.6	4.4	3.3
65°	2957.1	562.7	65.2	31.0	28.7	24.3	12.2	6.6	3.3	1.1	0.0
67.5°	2352.4	399.1	57.5	23.2	19.9	15.5	7.7	4.4	1.1	0.0	0.0
70°	1356.4	215.6	47.5	16.6	13.3	9.9	5.5	2.2	0.0	0.0	0.0
72.5°	453.2	100.6	36.5	11.1	9.9	7.7	3.3	1.1	0.0	0.0	0.0
75°	99.5	59.7	24.3	7.7	6.6	5.5	2.2	0.0	0.0	0.0	0.0
77.5°	37.6	42.0	12.2	5.5	4.4	3.3	1.1	0.0	0.0	0.0	0.0
80°	14.4	27.6	5.5	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	7.7	11.1	3.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	5.5	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	1.1	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

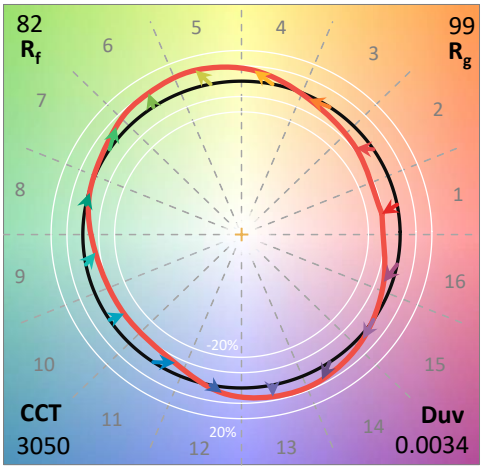
Test Information

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

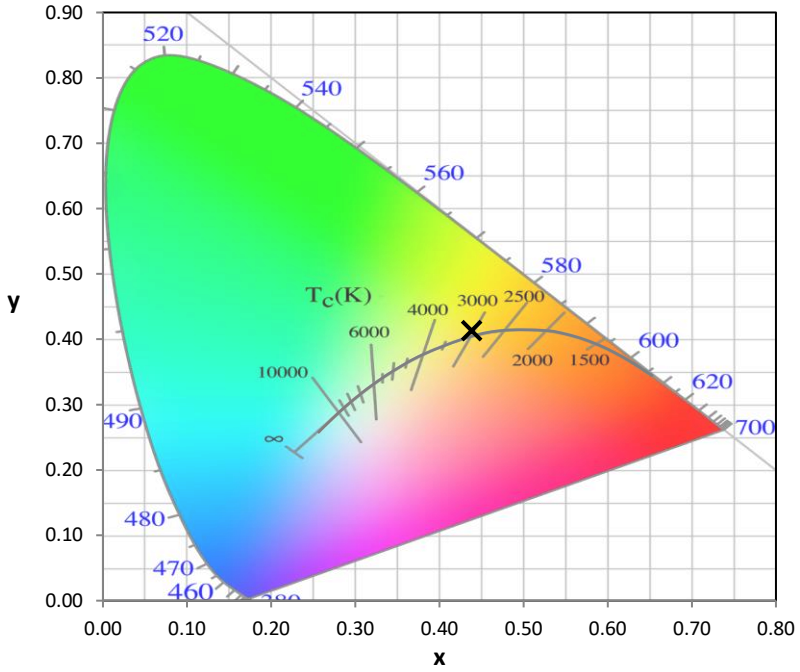
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

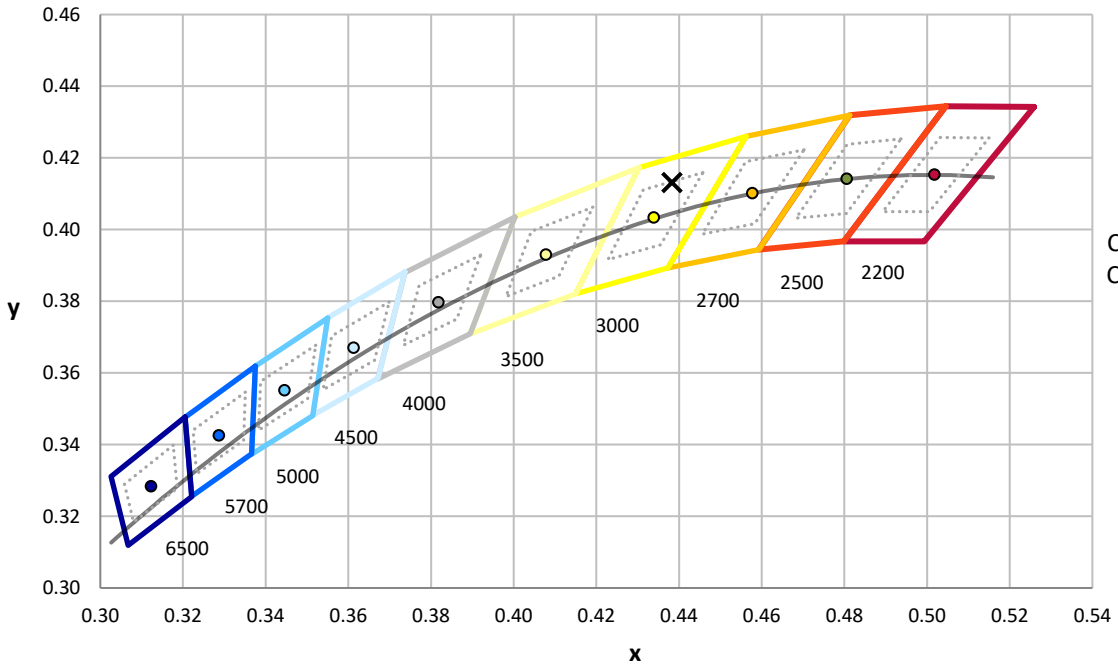
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

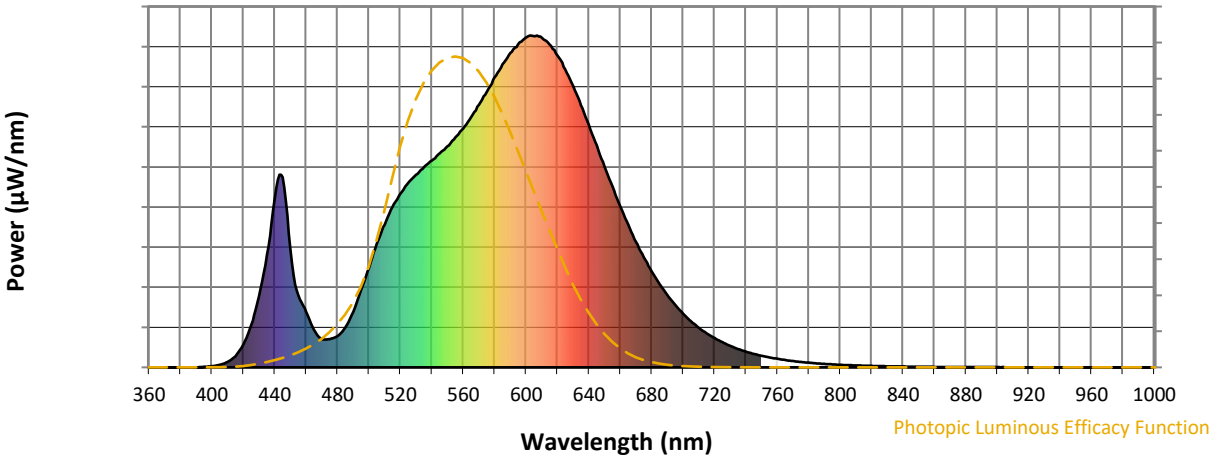


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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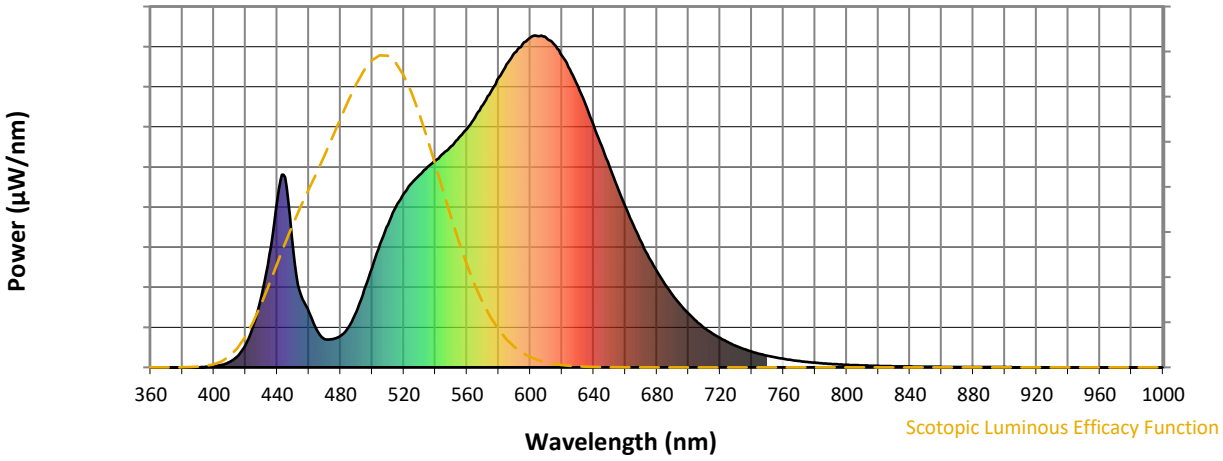
Scotopic Flux vs. Wavelength



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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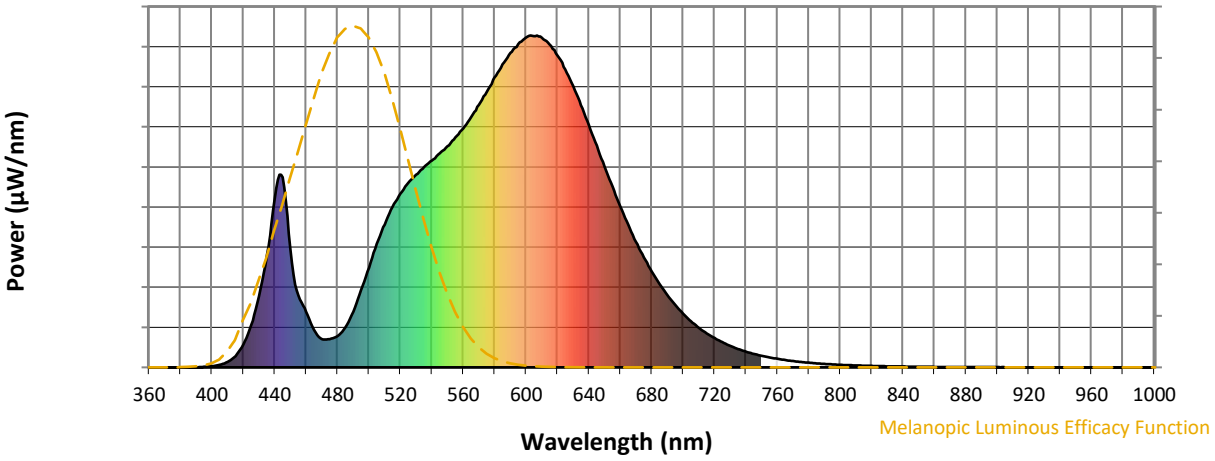
Melanopic Flux vs. Wavelength



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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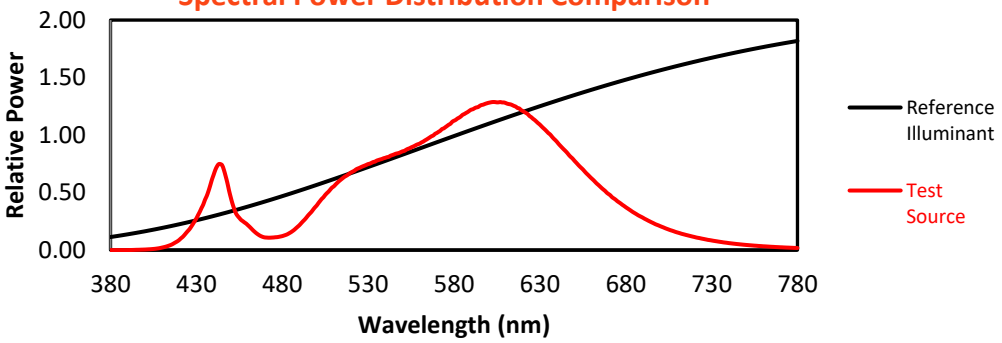
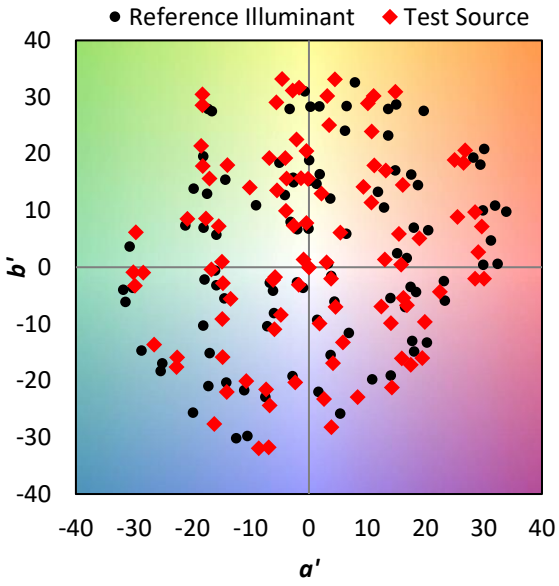
Summary

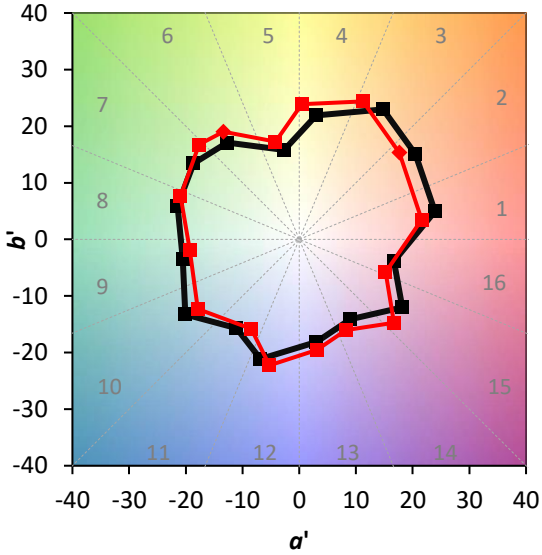
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

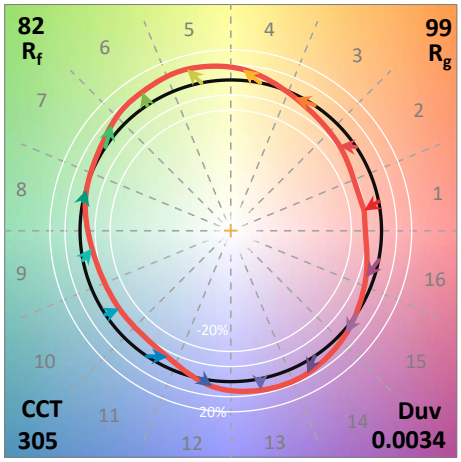
Spectral Power Distribution Comparison

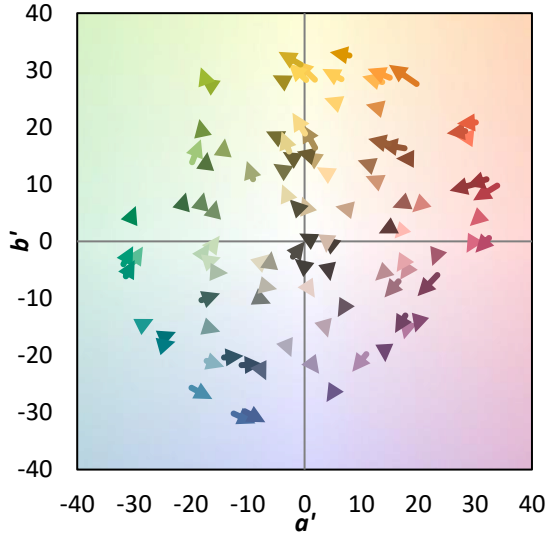


Color Vector Graphics









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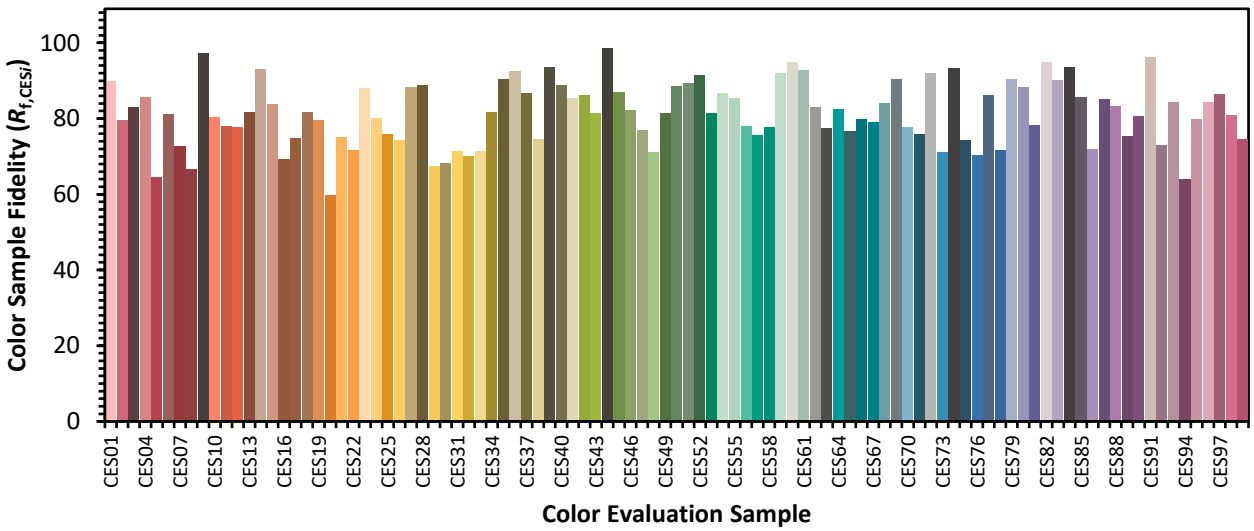
Individual Sample Fidelity Index ($R_{f,i}$)

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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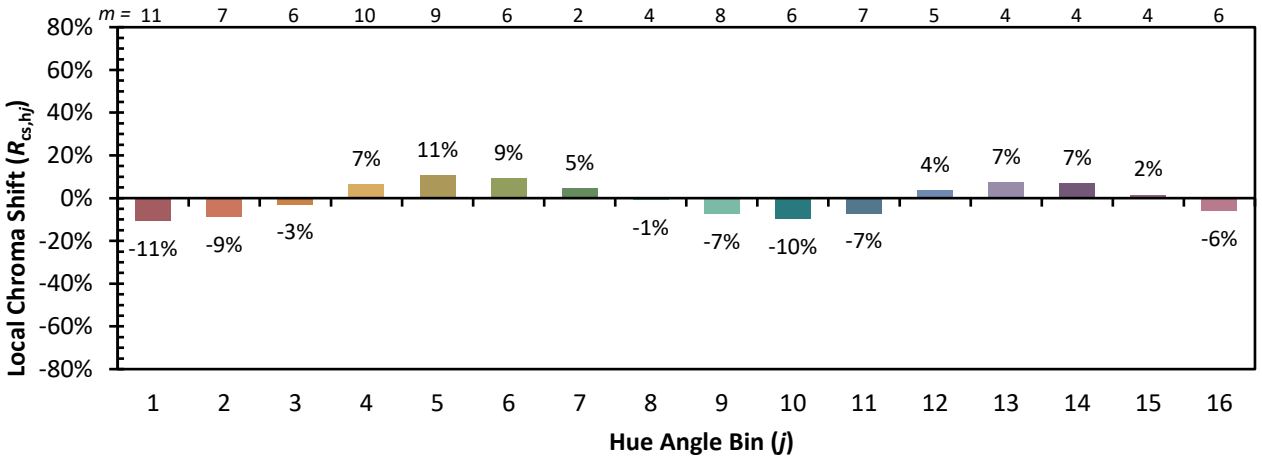
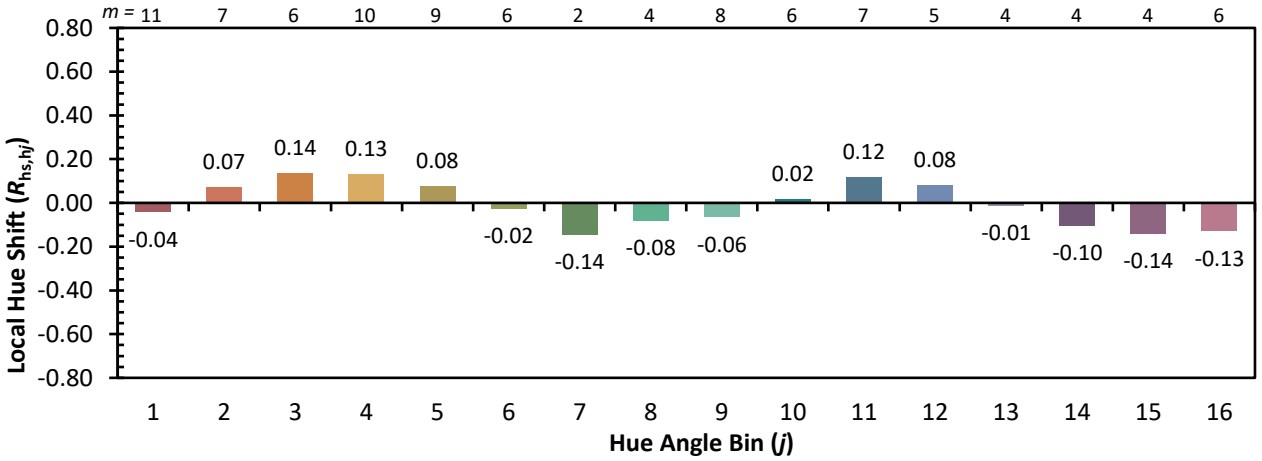
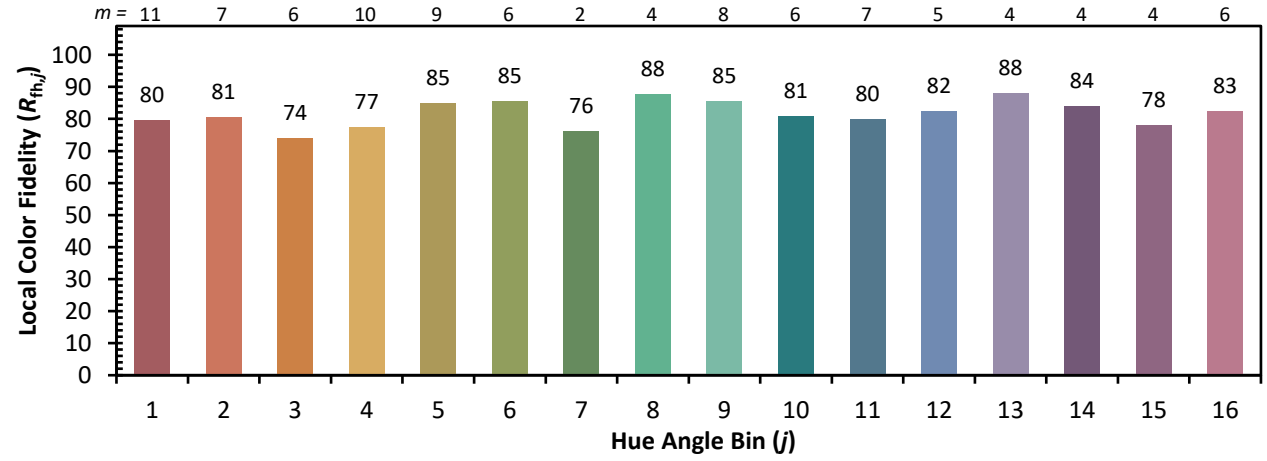
Color Rendition by Hue-Angle Bin







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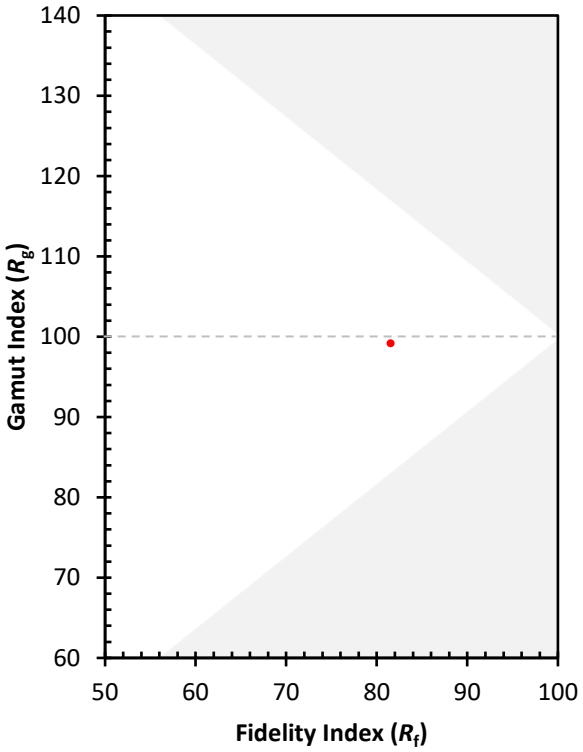
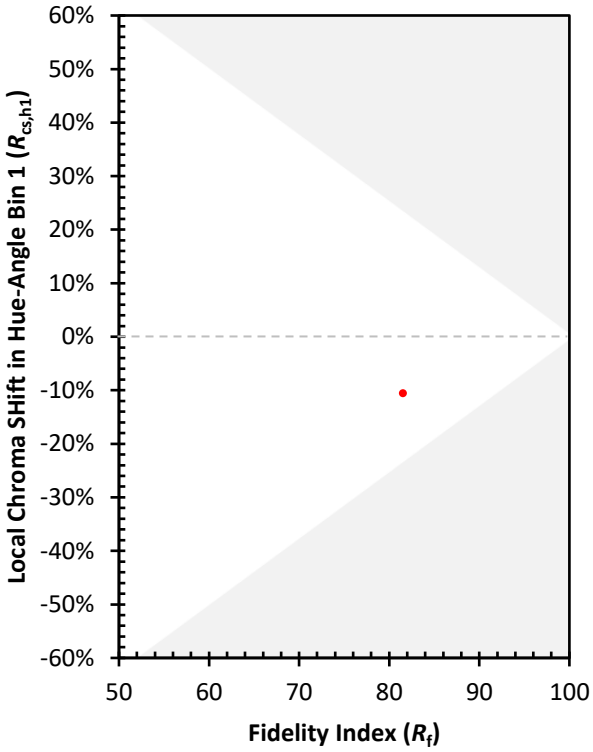
Measure Comparisons





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