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: P636000

Luminaire Tested: GWS-SA3E-830-U-SL3-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:	P636000
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3E-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14149.2 lumens
Efficiency:	N/A
Efficacy:	88.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	159.2
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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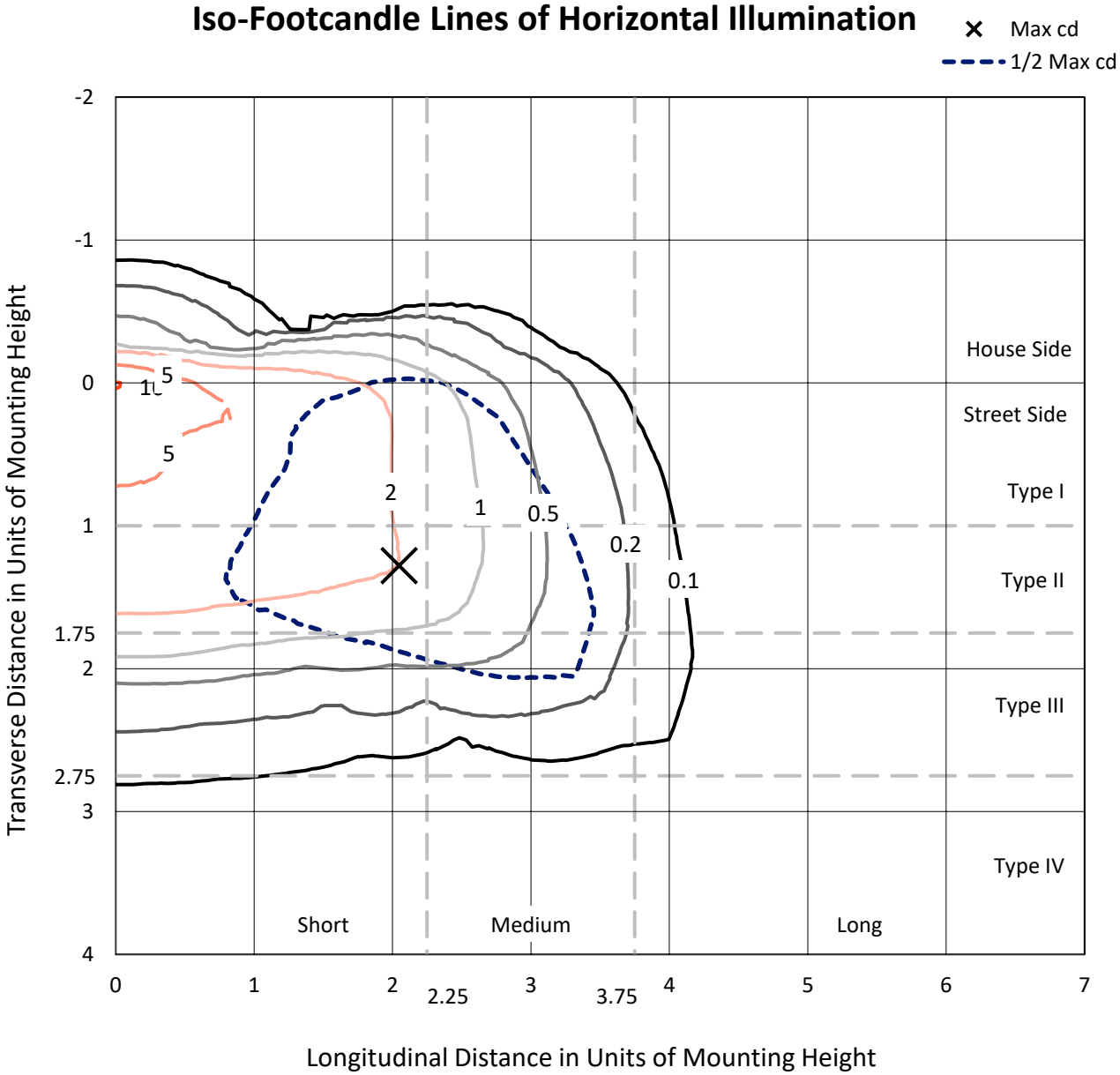
Scaled Data Report

REPORT NUMBER: P636000
CATALOG NUMBER: GWS-SA3E-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Short - N/A

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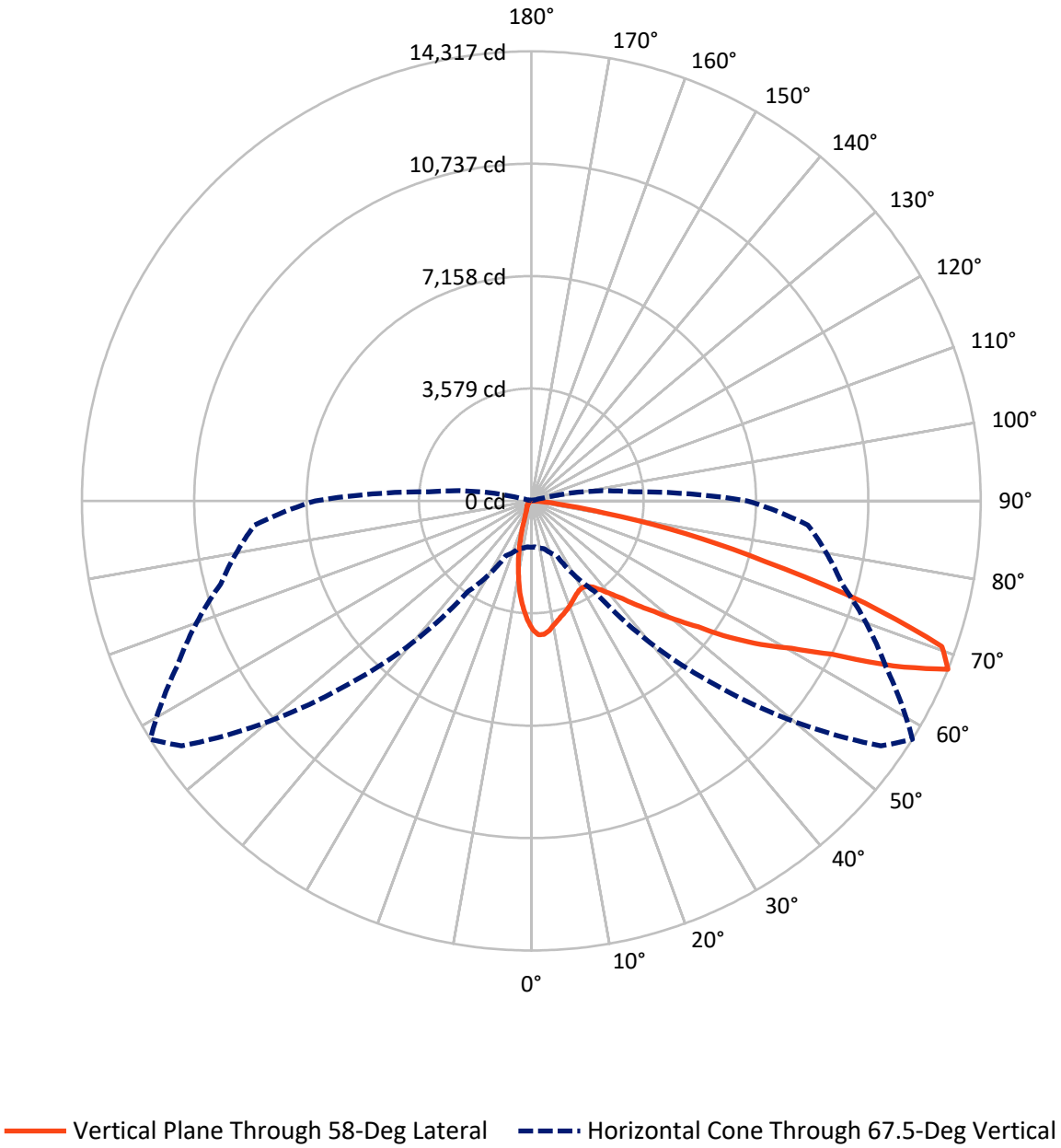
Luminous Intensity Polar Plot



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REPORT NUMBER: P636000
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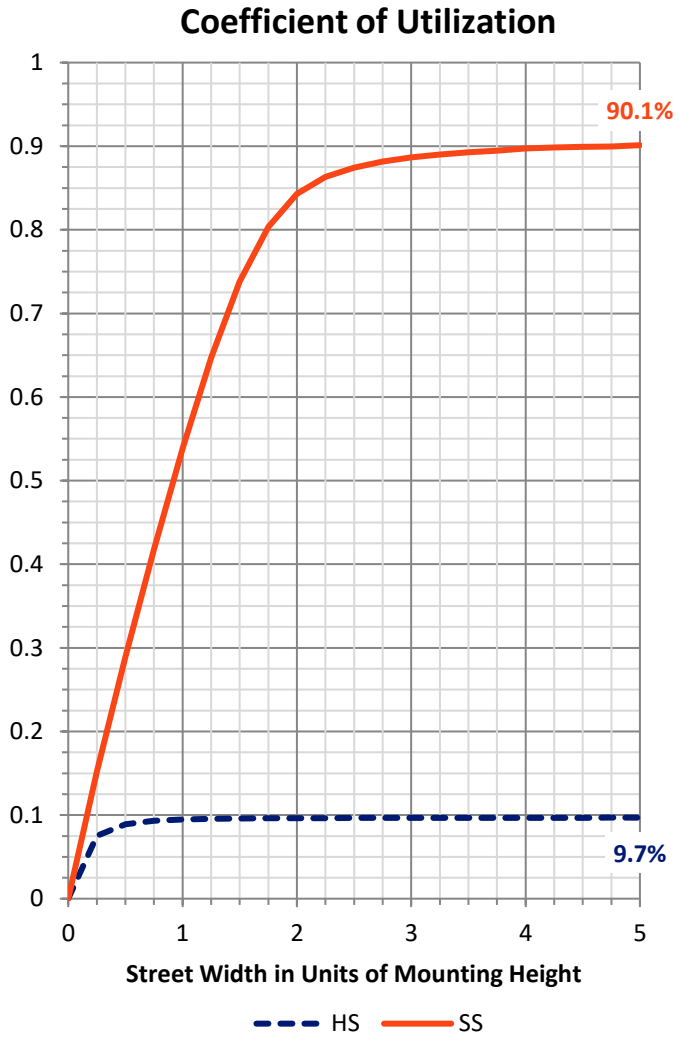
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.3	0.0	1382.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12766.9	0.0	12766.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	14149.2	0.0	14149.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	2.3
10°-20°	690.4	4.9
20°-30°	931.0	6.6
30°-40°	1308.2	9.2
40°-50°	2020.5	14.3
50°-60°	3231.0	22.8
60°-70°	3825.7	27.0
70°-80°	1692.4	12.0
80°-90°	118.3	0.8
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°	14149.2	100.0
0°-180°	14149.2	100.0



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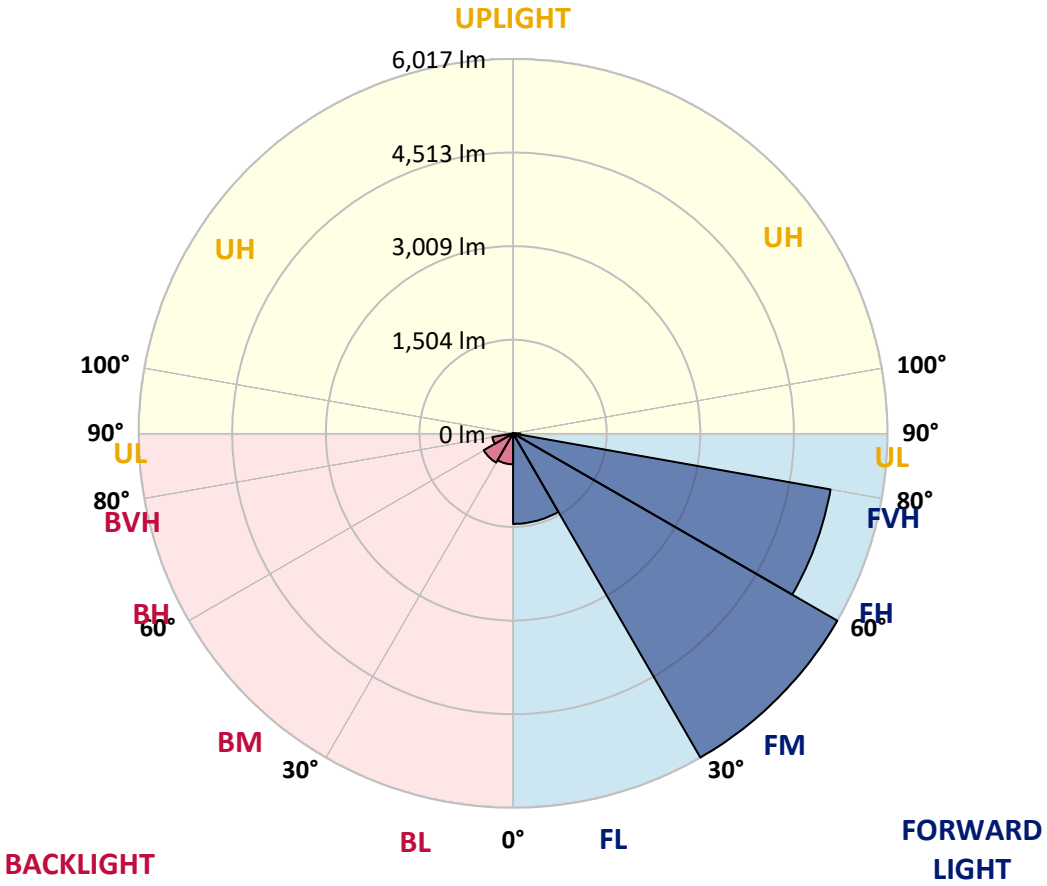
REPORT NUMBER: P636000
CATALOG NUMBER: GWS-SA3E-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1455.6	10.3			
FM	(30°-60°)	6017.3	42.5			
FH	(60°-80°)	5180.7	36.6			G3/7500
FVH	(80°-90°)	113.3	0.8			G2/225
BL	(0°-30°)	497.4	3.5	B1/500		
BM	(30°-60°)	542.4	3.8	B1/1000		
BH	(60°-80°)	337.5	2.4	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G3
Type III Short



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Scaled Data Report

REPORT NUMBER: P636000
CATALOG NUMBER: GWS-SA3E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3
2.5°	4292.9	4300.4	4310.5	4323.0	4320.5	4309.2	4295.4	4264.1	4244.1	4181.5	4105.1
5°	4155.2	4153.9	4179.0	4202.8	4245.3	4267.9	4299.2	4270.4	4260.4	4185.2	4061.3
7.5°	3885.9	3899.7	3928.5	3966.1	4027.4	4093.8	4169.0	4160.2	4190.2	4140.2	3986.1
10°	3621.7	3614.2	3659.3	3715.6	3809.5	3894.7	4003.6	4002.4	4081.3	4076.3	3901.0
12.5°	3390.0	3388.8	3423.8	3487.7	3597.9	3716.9	3864.6	3868.4	3966.1	4006.2	3828.3
15°	3194.7	3197.2	3231.0	3297.3	3411.3	3556.6	3728.1	3759.4	3869.7	3951.1	3756.9
17.5°	3055.6	3056.9	3076.9	3134.5	3246.0	3401.3	3607.9	3650.5	3792.0	3909.7	3699.3
20°	2991.8	2986.8	2990.5	3019.3	3105.7	3247.3	3485.2	3540.3	3720.6	3880.9	3646.7
22.5°	3000.5	2993.0	2975.5	2971.7	3010.6	3118.3	3355.0	3422.6	3643.0	3863.4	3599.2
25°	3078.2	3061.9	3036.9	2999.3	2984.3	3038.1	3241.0	3311.1	3570.3	3864.6	3562.8
27.5°	3197.2	3179.6	3148.3	3098.2	3039.4	3016.8	3163.3	3229.7	3519.0	3893.4	3545.3
30°	3348.7	3334.9	3304.9	3244.7	3165.9	3073.2	3147.1	3202.2	3494.0	3952.3	3552.8
32.5°	3527.8	3517.8	3492.7	3437.6	3347.4	3205.9	3202.2	3244.7	3514.0	4037.5	3581.6
35°	3700.6	3704.3	3705.6	3675.5	3579.1	3407.5	3353.7	3368.7	3596.6	4165.2	3646.7
37.5°	3887.2	3878.4	3923.5	3944.8	3852.1	3669.3	3587.9	3589.1	3754.4	4354.3	3769.5
40°	4028.7	4031.2	4128.9	4216.5	4177.7	4001.1	3884.7	3883.4	3997.4	4613.5	3967.3
42.5°	4161.4	4177.7	4321.7	4472.0	4525.9	4369.3	4285.4	4254.1	4338.0	4964.2	4264.1
45°	4303.0	4326.7	4528.4	4742.5	4884.0	4791.4	4725.0	4737.5	4747.5	5372.4	4663.6
47.5°	4468.3	4483.3	4732.5	5034.3	5298.5	5274.7	5278.5	5263.5	5258.5	5887.1	5192.1
50°	4668.6	4703.7	4990.5	5351.1	5711.8	5869.6	5922.2	5928.5	5847.1	6448.2	5739.4
52.5°	5094.4	5137.0	5382.4	5698.0	6162.6	6494.5	6708.6	6666.1	6540.8	6991.7	6339.2
55°	5596.6	5629.2	5865.8	6192.7	6713.7	7179.5	7688.0	7670.4	7363.6	7564.0	6832.6
57.5°	5644.2	5680.5	6047.4	6548.4	7421.2	8026.1	8560.8	8617.2	8167.6	7969.7	7273.4
60°	5109.4	5183.3	5684.3	6358.0	7691.7	9164.4	9517.6	9528.9	8757.4	8381.7	7811.9
62.5°	4095.1	4130.1	4634.8	5513.9	7274.7	9828.2	10979.0	10741.1	9515.1	9019.2	8664.8
65°	2146.5	2289.2	2728.8	3701.8	5899.7	9596.5	12737.3	12672.2	10877.6	9932.1	9328.5
67.5°	1472.7	1471.5	1575.4	1929.8	3517.8	8262.8	13600.1	14316.5	12453.0	10245.2	8847.6
70°	1120.8	1124.6	1217.2	1447.7	1822.1	5500.2	12653.4	13878.2	12746.1	9302.2	7155.7
72.5°	743.9	751.4	905.4	1169.7	1455.2	2696.2	9833.2	11104.3	10724.8	7471.3	5036.8
75°	444.6	450.8	561.0	850.3	1293.6	1509.0	6247.8	7676.7	7382.4	5149.5	2700.0
77.5°	182.8	187.8	288.0	529.7	946.7	1172.2	3455.1	5023.0	4421.9	2047.5	737.6
80°	76.4	78.9	139.0	370.7	682.5	735.1	1600.5	2360.6	1812.1	440.8	225.4
82.5°	27.6	28.8	51.3	204.1	424.5	553.5	807.7	933.0	510.9	144.0	121.5
85°	1.3	1.3	12.5	68.9	161.5	156.5	462.1	447.1	169.1	60.1	72.6
87.5°	0.0	0.0	1.3	1.3	2.5	6.3	43.8	77.6	36.3	15.0	31.3
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: P636000
CATALOG NUMBER: GWS-SA3E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3	4081.3
2.5°	4055.0	3988.6	3916.0	3848.4	3740.7	3676.8	3597.9	3562.8	3512.7	3500.2	3507.7
5°	3972.3	3858.4	3684.3	3526.5	3322.4	3158.3	2993.0	2922.9	2832.7	2772.6	2747.6
7.5°	3855.9	3706.9	3435.1	3148.3	2867.8	2568.5	2340.6	2190.3	2053.8	1978.7	1963.6
10°	3738.2	3544.1	3154.6	2743.8	2309.3	1951.1	1643.0	1415.1	1229.8	1145.9	1080.7
12.5°	3616.7	3375.0	2869.1	2333.1	1828.4	1340.0	959.3	737.6	604.9	552.3	561.0
15°	3505.2	3212.2	2586.0	1922.3	1287.4	809.0	529.7	447.1	415.8	405.7	404.5
17.5°	3398.8	3058.2	2304.3	1522.8	849.1	495.9	405.7	385.7	376.9	371.9	371.9
20°	3302.4	2910.4	2028.7	1147.1	548.5	393.2	366.9	356.9	349.4	345.6	345.6
22.5°	3212.2	2767.6	1759.5	811.5	404.5	353.2	336.9	326.9	318.1	313.1	313.1
25°	3130.8	2638.6	1502.8	558.5	348.1	323.1	305.6	294.3	279.3	270.5	270.5
27.5°	3071.9	2523.4	1256.1	407.0	314.3	290.5	270.5	255.5	239.2	229.2	226.7
30°	3036.9	2425.7	1006.9	334.4	283.0	259.2	236.7	217.9	199.1	189.1	187.8
32.5°	3016.8	2335.6	778.9	291.8	256.7	229.2	204.1	184.1	165.3	154.0	152.8
35°	3024.3	2265.4	583.6	263.0	231.7	202.9	175.3	155.3	139.0	129.0	126.5
37.5°	3089.5	2234.1	438.3	240.4	210.4	180.3	151.5	132.7	117.7	110.2	109.0
40°	3215.9	2240.4	344.4	222.9	192.9	157.8	130.2	112.7	101.4	95.2	93.9
42.5°	3412.6	2293.0	284.3	207.9	174.1	137.8	112.7	98.9	87.7	81.4	80.1
45°	3705.6	2401.9	248.0	190.4	154.0	119.0	97.7	85.2	75.1	67.6	66.4
47.5°	4130.1	2591.0	224.2	174.1	136.5	102.7	83.9	71.4	62.6	56.4	55.1
50°	4582.2	2817.7	204.1	157.8	121.5	88.9	71.4	58.9	51.3	45.1	43.8
52.5°	5064.4	3061.9	189.1	142.8	107.7	76.4	60.1	48.8	41.3	35.1	33.8
55°	5527.7	3307.4	171.6	132.7	91.4	65.1	50.1	40.1	32.6	27.6	27.6
57.5°	5978.6	3532.8	152.8	116.5	75.1	55.1	41.3	32.6	26.3	22.5	21.3
60°	6517.0	3844.6	131.5	98.9	62.6	46.3	33.8	26.3	21.3	17.5	17.5
62.5°	7317.3	4169.0	112.7	82.7	52.6	38.8	27.6	21.3	17.5	15.0	13.8
65°	7579.0	3993.6	95.2	67.6	42.6	31.3	22.5	18.8	15.0	13.8	12.5
67.5°	*6880.2*	*3273.6*	*78.9*	*55.1*	*35.1*	*26.3*	*20.0*	*16.3*	*13.8*	*12.5*	*11.3*
70°	5368.7	2323.0	61.4	41.3	28.8	21.3	17.5	15.0	12.5	11.3	11.3
72.5°	3651.7	1373.8	48.8	31.3	23.8	18.8	15.0	13.8	12.5	11.3	10.0
75°	1798.3	488.4	37.6	23.8	18.8	16.3	13.8	12.5	11.3	10.0	10.0
77.5°	484.6	135.2	28.8	18.8	15.0	12.5	12.5	12.5	11.3	8.8	8.8
80°	164.1	56.4	21.3	13.8	12.5	10.0	8.8	11.3	10.0	8.8	7.5
82.5°	90.2	27.6	15.0	11.3	8.8	7.5	7.5	7.5	7.5	6.3	6.3
85°	57.6	15.0	10.0	8.8	8.8	6.3	5.0	5.0	3.8	3.8	3.8
87.5°	26.3	8.8	8.8	7.5	7.5	6.3	3.8	2.5	1.3	1.3	1.3
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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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

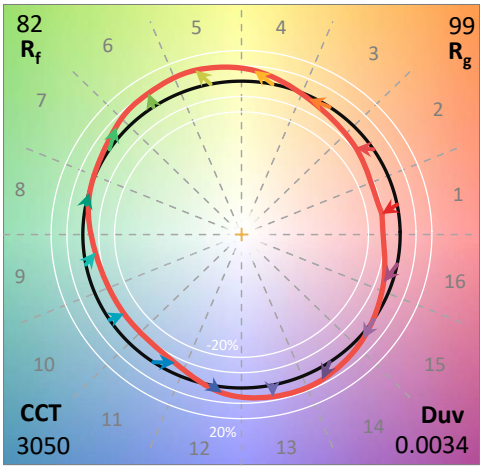
Test Information

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

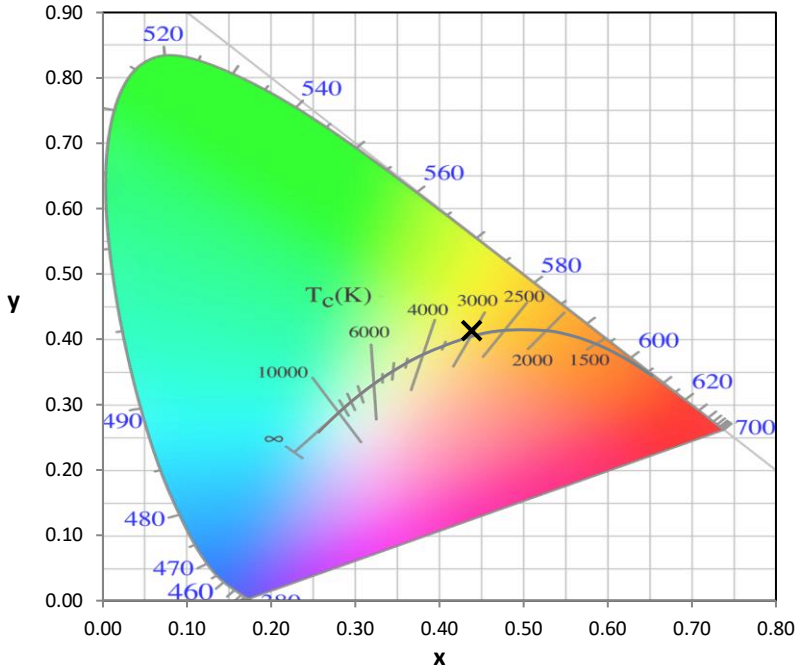
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

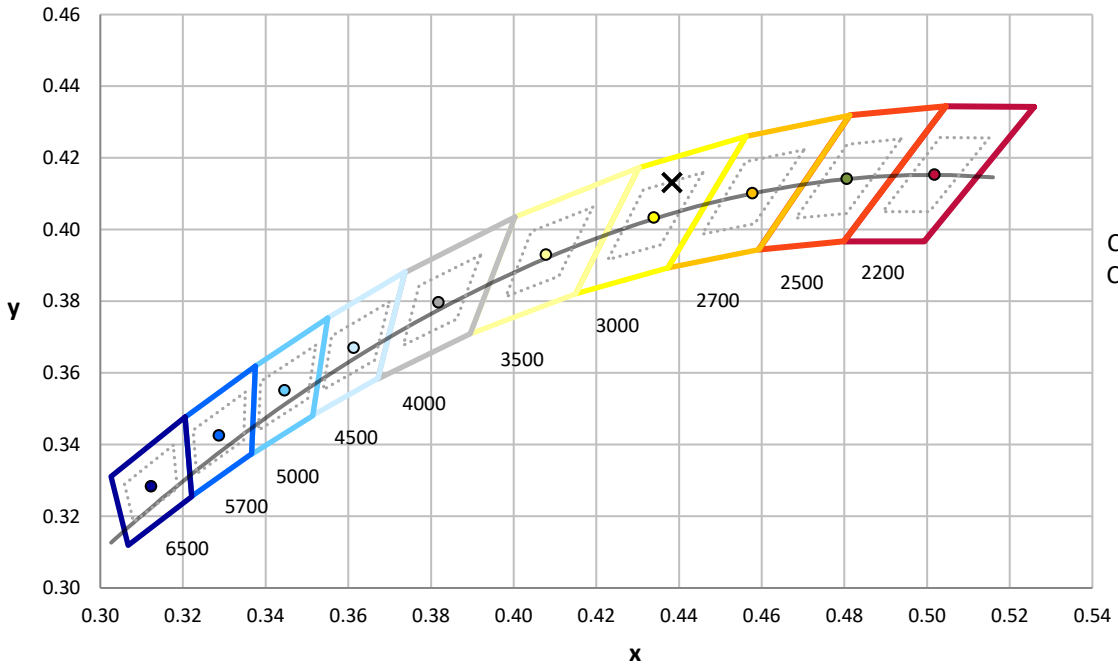
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

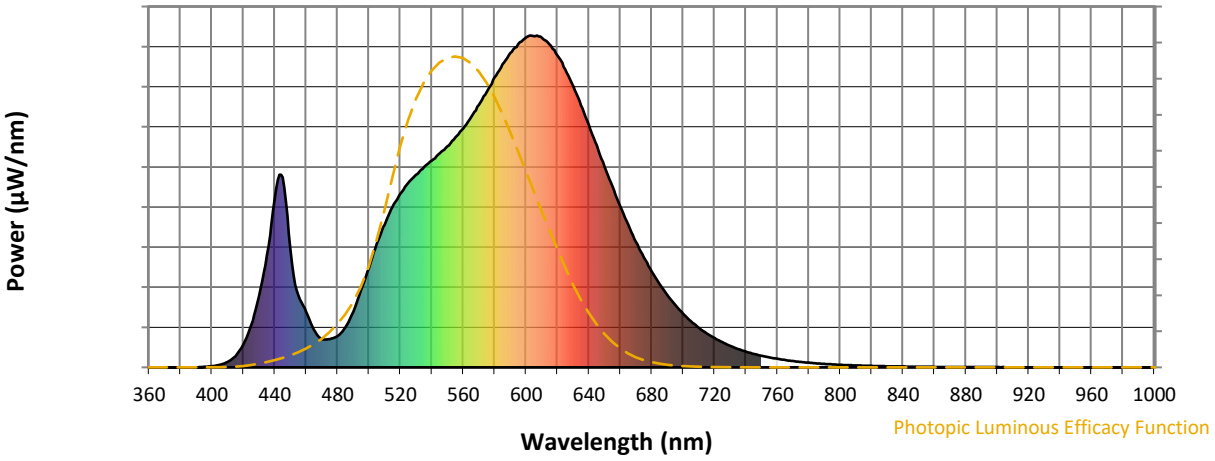


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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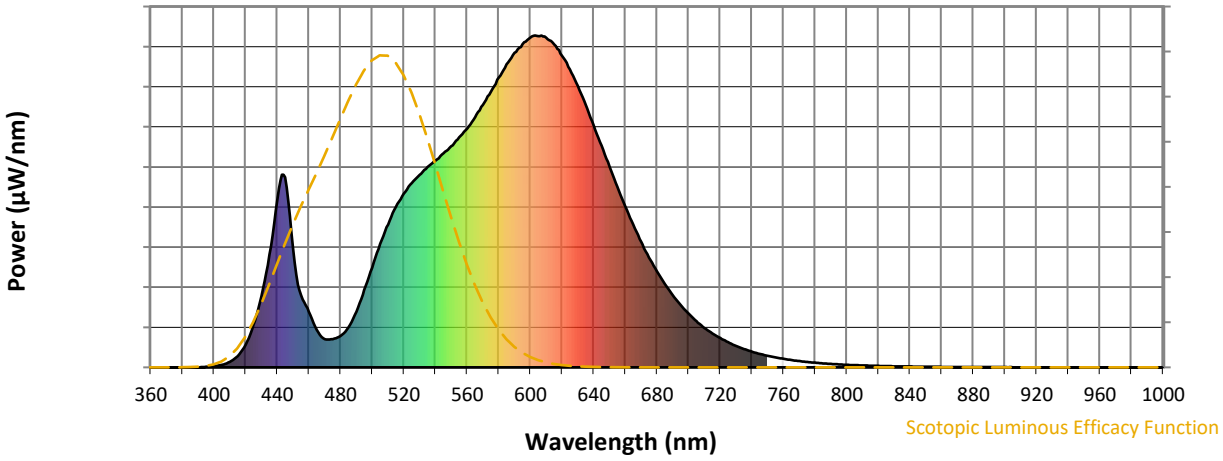
Scotopic Flux vs. Wavelength



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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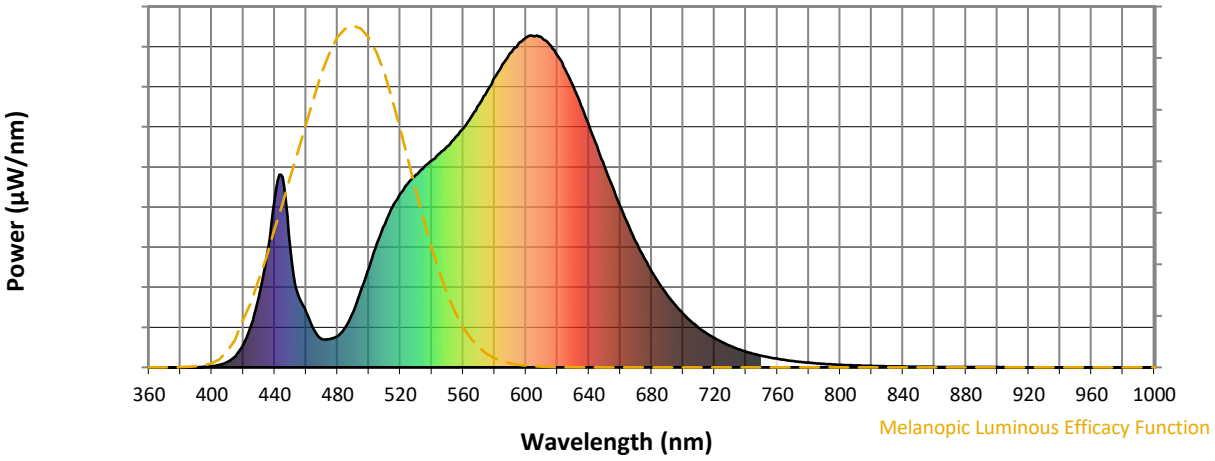
Melanopic Flux vs. Wavelength



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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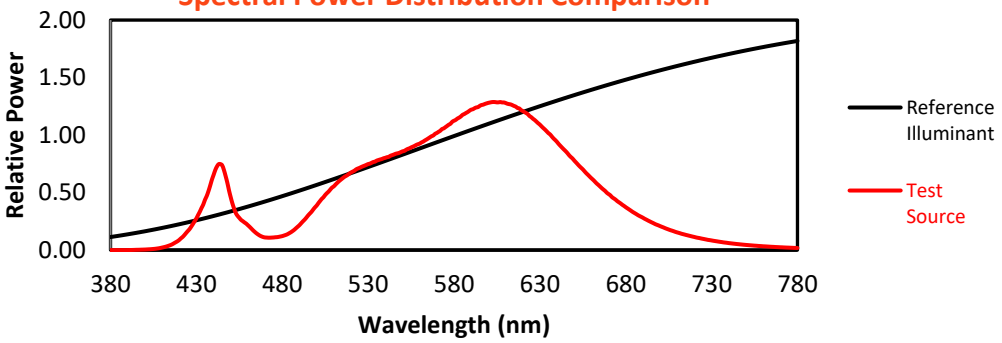
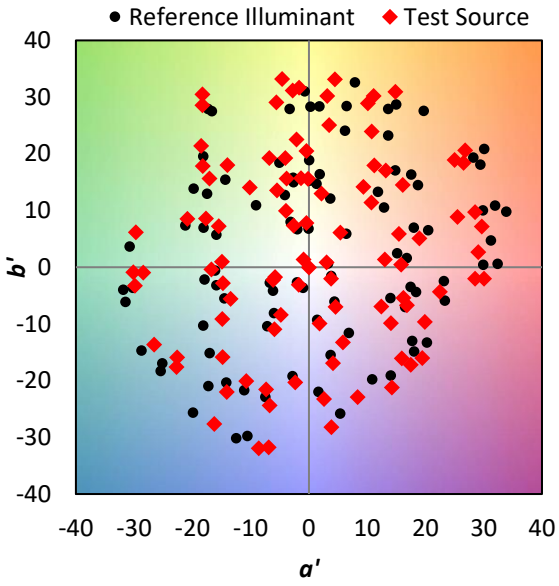
Summary

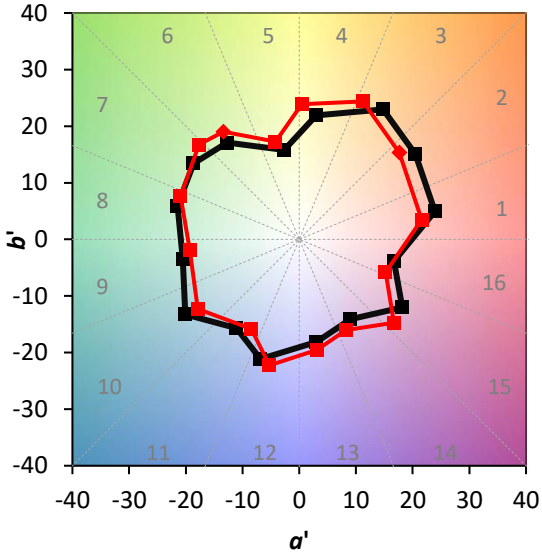
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

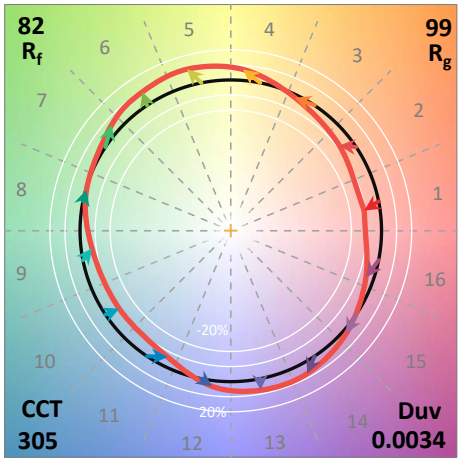
Spectral Power Distribution Comparison

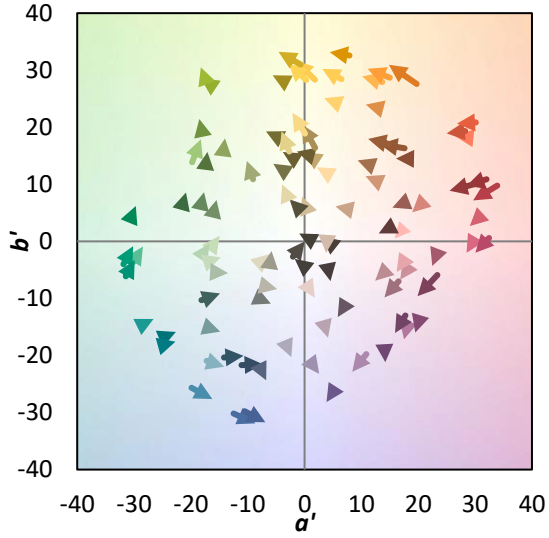


Color Vector Graphics









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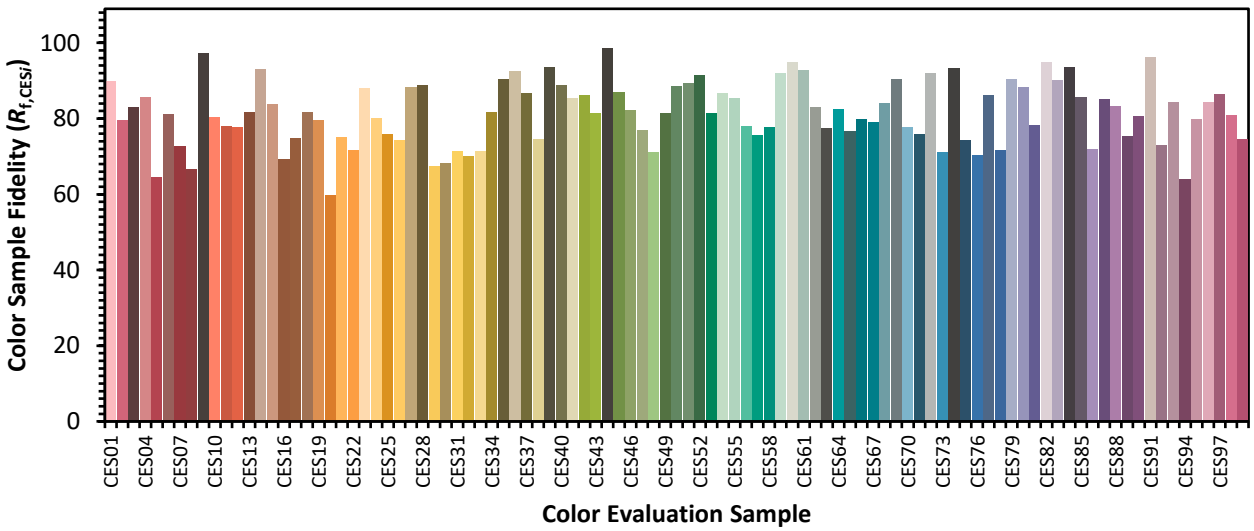
Individual Sample Fidelity Index ($R_{f,i}$)

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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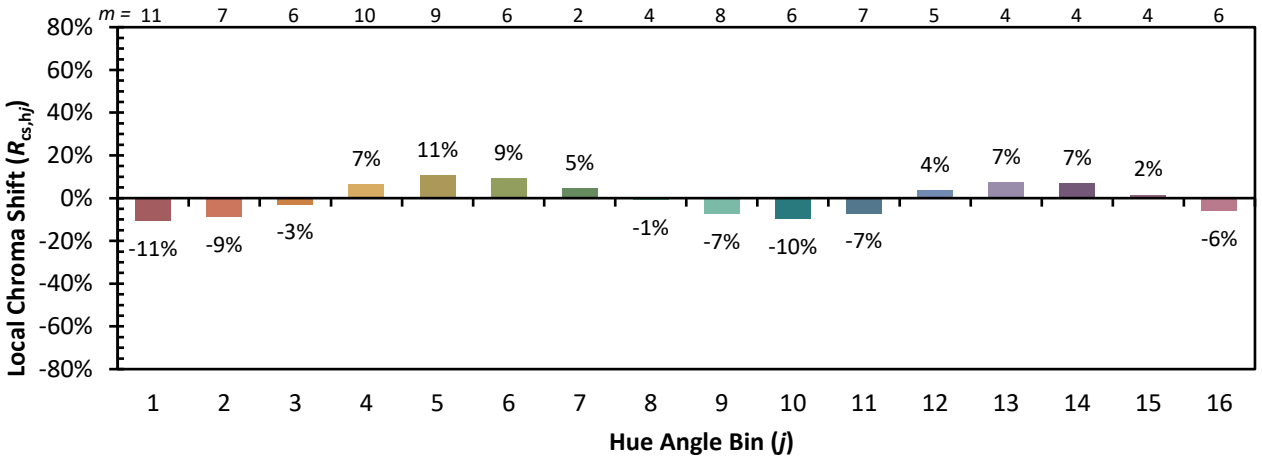
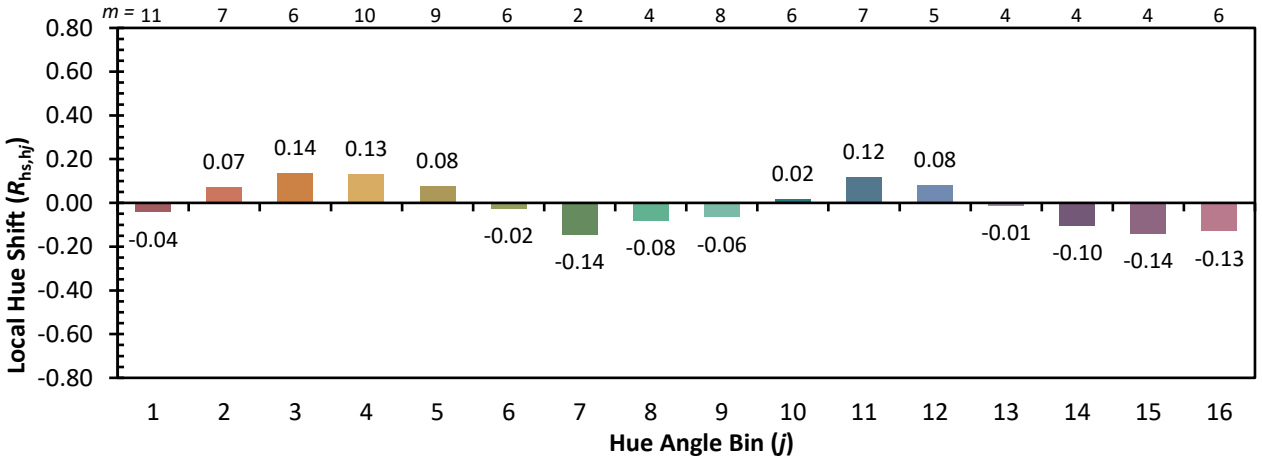
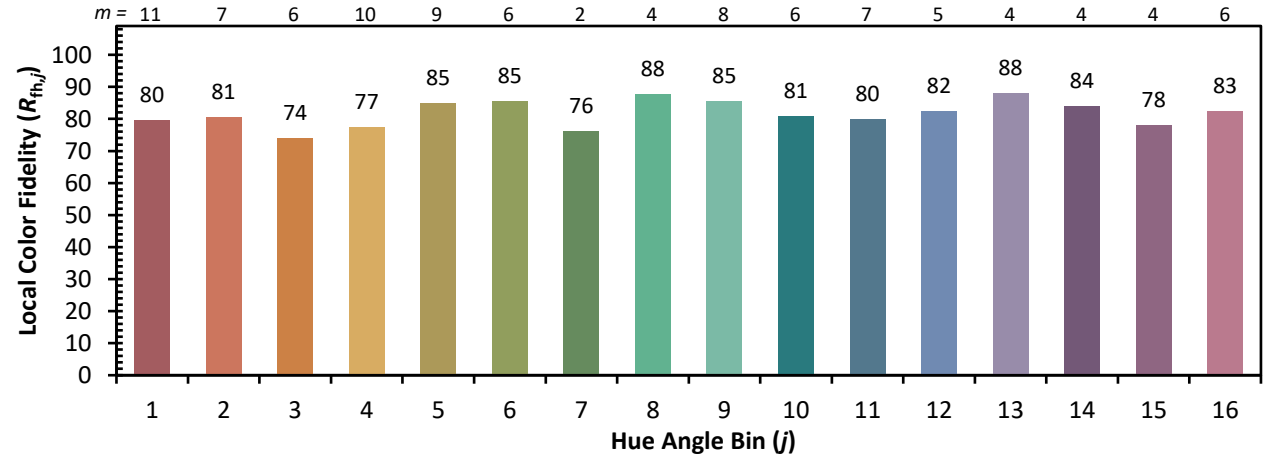
Color Rendition by Hue-Angle Bin







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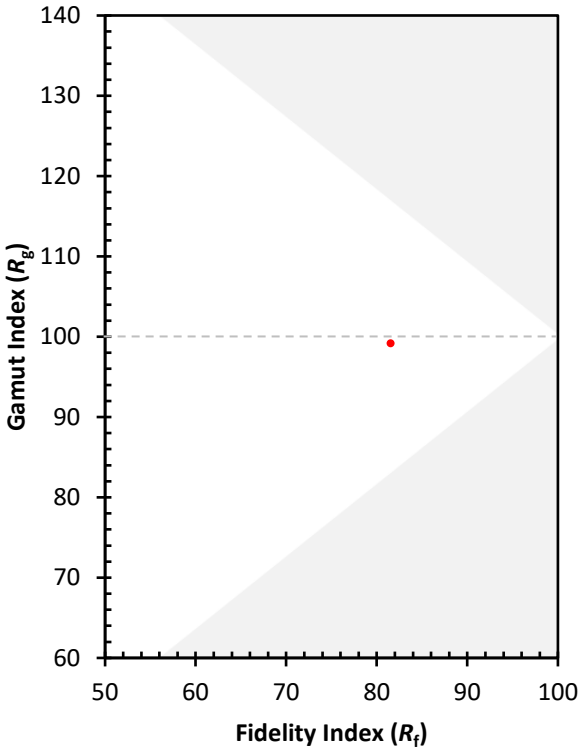
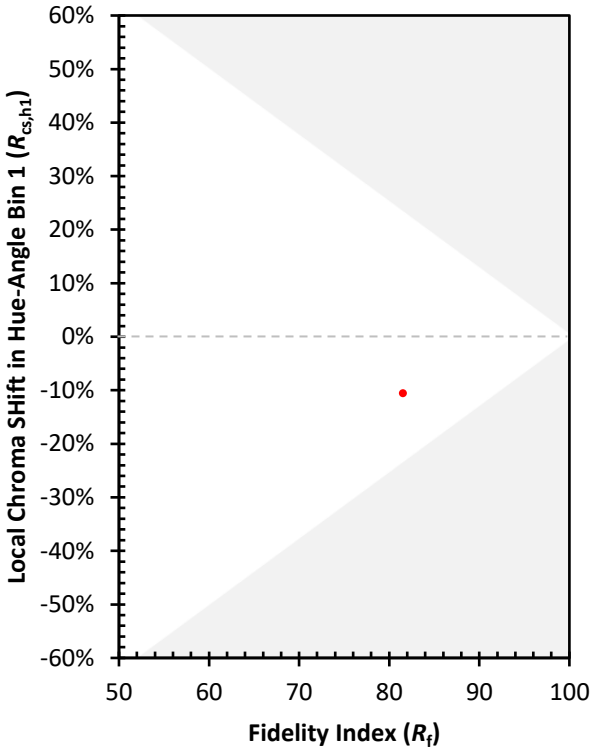
Measure Comparisons





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