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: P636493

Luminaire Tested: GWS-SA3F-830-U-SL3-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:	P636493
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3F-830-U-SL3-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11360.6 lumens
Efficiency:	N/A
Efficacy:	62.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	183.2
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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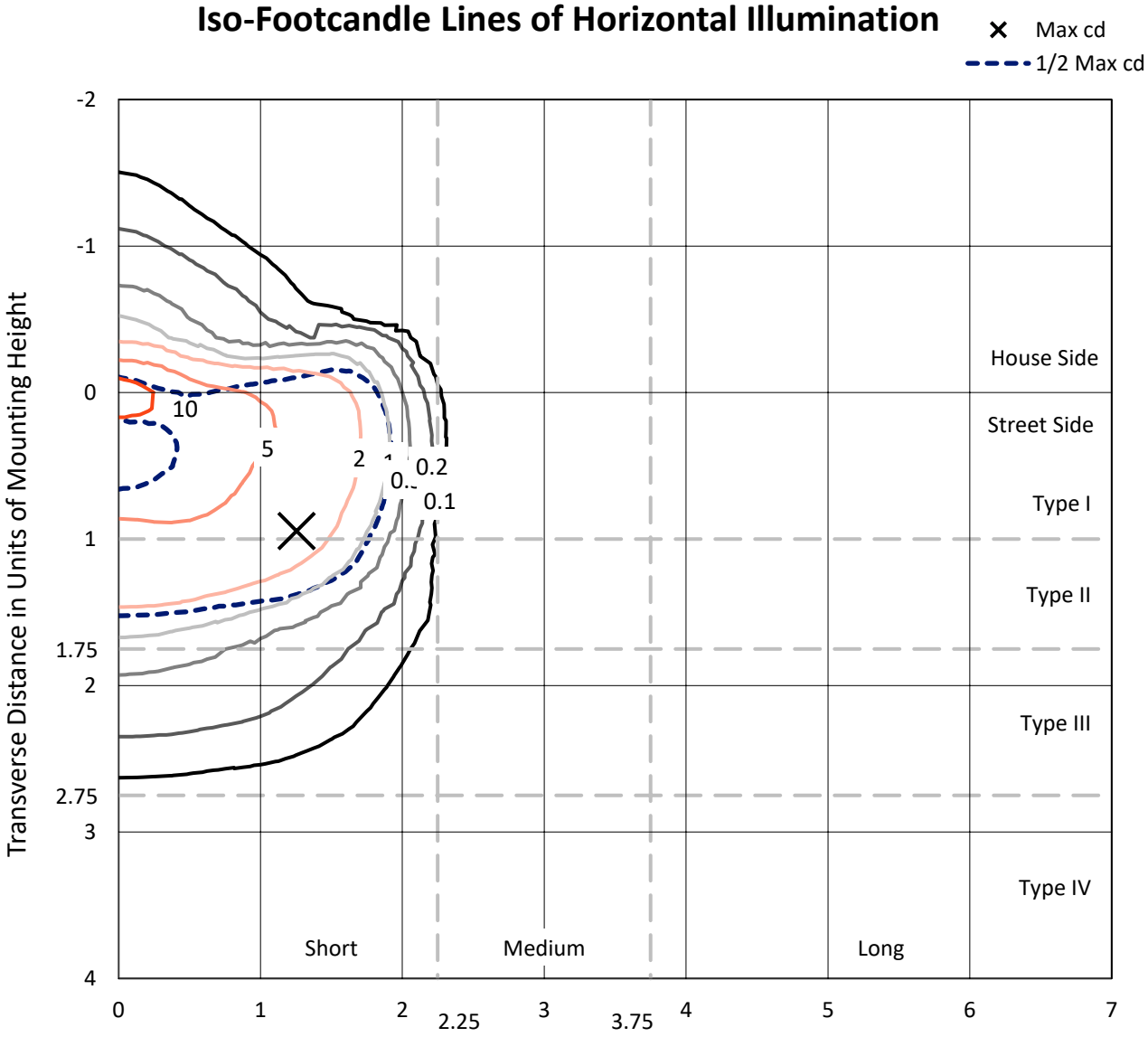
Scaled Data Report

REPORT NUMBER: P636493
CATALOG NUMBER: GWS-SA3F-830-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 12.5 fc
Type II - Short - N/A

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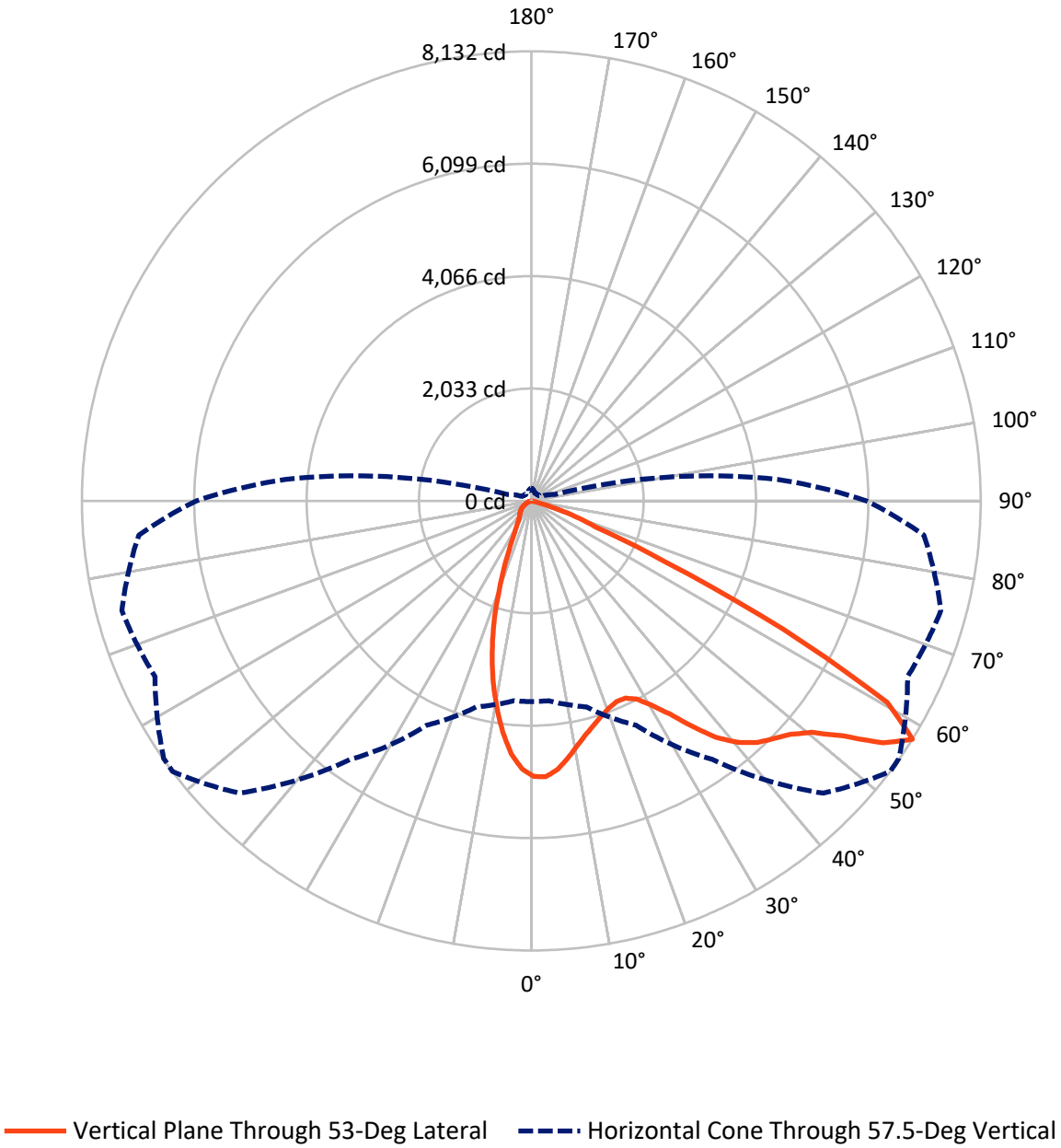
Luminous Intensity Polar Plot



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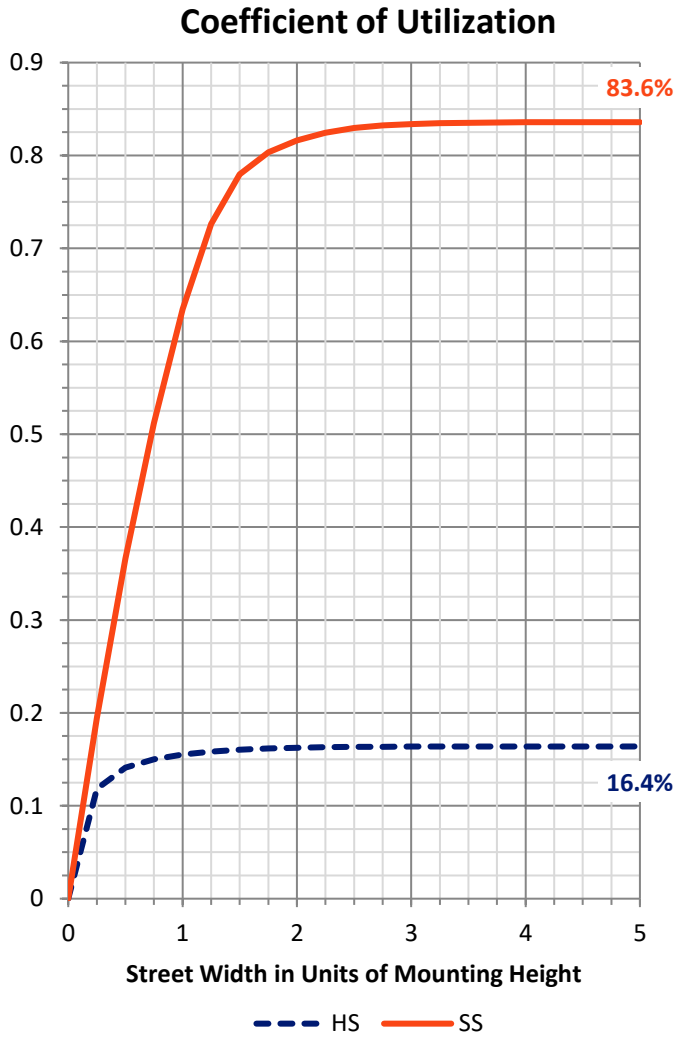
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1876.6	0.0	1876.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9484.0	0.0	9484.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	11360.6	0.0	11360.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	3.8
10°-20°	936.0	8.2
20°-30°	1219.4	10.7
30°-40°	1768.8	15.6
40°-50°	2552.2	22.5
50°-60°	3086.7	27.2
60°-70°	1258.0	11.1
70°-80°	113.0	1.0
80°-90°	0.0	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°	11360.6	100.0
0°-180°	11360.6	100.0



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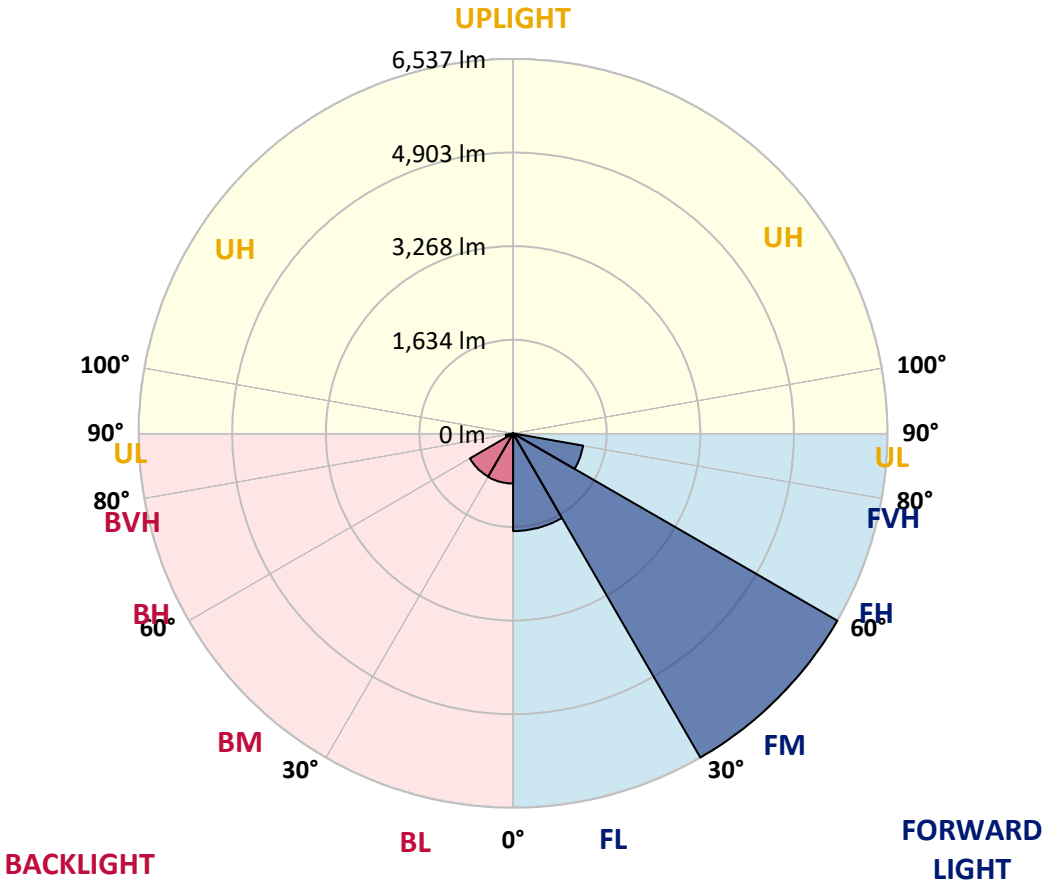
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1706.0	15.0			
FM	(30°-60°)	6536.7	57.5			
FH	(60°-80°)	1241.3	10.9			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	875.8	7.7	B2/1000		
BM	(30°-60°)	871.0	7.7	B1/1000		
BH	(60°-80°)	129.7	1.1	B1/500		G1/500
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P636493
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4	*4983.4*	4983.4	4983.4	4983.4	4983.4
2.5°	4913.8	4924.9	4944.4	4969.5	4986.2	4994.5	*4994.5*	5018.2	5002.9	4990.4	4976.4
5°	4703.5	4714.7	4741.1	4781.5	4821.9	4851.1	*4884.5*	4909.6	4919.4	4919.4	4895.7
7.5°	4407.0	4422.3	4439.0	4494.7	4582.4	4647.8	*4704.9*	4741.1	4794.0	4810.7	4777.3
10°	4088.1	4103.4	4141.0	4217.6	4317.8	4415.3	*4512.8*	4558.7	4649.2	4696.6	4659.0
12.5°	3818.0	3824.9	3875.1	3967.0	4095.1	4228.7	*4347.1*	4394.4	4522.5	4593.5	4549.0
15°	3595.2	3599.4	3649.5	3751.1	3898.7	4063.0	*4212.0*	4260.8	4418.1	4525.3	4458.5
17.5°	3426.7	3428.1	3471.3	3581.3	3735.8	3918.2	*4095.1*	4154.9	4358.2	4487.7	4387.5
20°	3341.8	3337.6	3368.2	3464.3	3610.5	3792.9	*4001.8*	4075.6	4324.8	4482.1	4333.2
22.5°	3343.2	3333.4	3345.9	3414.2	3538.1	3709.4	*3943.3*	4026.8	4327.6	4505.8	4287.2
25°	3422.5	3408.6	3411.4	3447.6	3535.3	3691.3	*3951.6*	4040.8	4383.3	4585.2	4270.5
27.5°	3556.2	3540.9	3540.9	3559.0	3606.3	3748.3	*4056.1*	4157.7	4532.3	4739.7	4305.3
30°	3728.9	3713.5	3708.0	3726.1	3765.1	3895.9	*4288.6*	4394.4	4787.1	4993.2	4416.7
32.5°	3926.6	3908.5	3918.2	3943.3	3980.9	4161.9	*4588.0*	4728.6	5105.9	5334.3	4617.2
35°	4135.4	4120.1	4164.7	4219.0	4277.5	4530.9	*5001.5*	5124.0	5497.2	5759.0	4923.5
37.5°	4334.5	4327.6	4420.9	4535.1	4656.2	4973.7	*5422.0*	5516.7	5832.8	6221.3	5298.1
40°	4533.7	4532.3	4692.4	4892.9	5086.4	5415.1	*5740.9*	5818.8	6037.5	6580.5	5657.3
42.5°	4756.4	4756.4	4977.8	5245.2	5502.8	5788.2	*5974.8*	6009.6	6129.4	6788.0	5927.5
45°	4969.5	4982.0	5238.2	5548.7	5853.7	6079.2	*6136.3*	6139.1	6166.9	6910.5	6151.6
47.5°	5138.0	5149.1	5455.4	5813.3	6141.9	6300.6	*6309.0*	6296.4	6265.8	7027.5	6324.3
50°	5274.4	5291.1	5611.4	5990.1	6339.6	6513.7	*6577.7*	6565.2	6487.2	7152.8	6445.4
52.5°	5341.3	5364.9	5665.7	6077.8	6559.6	6878.5	*7056.7*	7085.9	6818.6	7222.4	6561.0
55°	4806.6	4841.4	5118.5	5682.4	6682.1	7442.4	*7722.3*	7716.7	7177.8	7429.9	6842.3
57.5°	*3630.0*	*3627.2*	*3857.0*	*4473.8*	*5707.5*	*7474.4*	*8131.6*	*8120.5*	*7513.4*	*7670.7*	*7130.5*
60°	2471.5	2454.8	2516.1	2814.0	3990.6	6089.0	*7400.6*	7551.0	7275.3	7085.9	6054.2
62.5°	2034.3	2019.0	1999.5	1917.3	2291.9	3792.9	*5112.9*	5341.3	5305.1	4924.9	3797.1
65°	1665.3	1677.8	1732.1	1697.3	1594.3	1945.2	*2653.9*	2789.0	2549.5	2145.7	1327.0
67.5°	1228.1	1233.7	1304.7	1488.5	1432.8	1294.9	*1249.0*	1271.3	744.9	342.5	221.4
70°	725.4	729.6	795.1	1041.5	1162.7	994.2	*843.8*	831.3	295.2	91.9	100.3
72.5°	410.8	402.4	414.9	495.7	633.5	527.7	*434.4*	395.4	89.1	51.5	51.5
75°	194.9	189.4	162.9	153.2	139.2	89.1	*55.7*	47.3	22.3	20.9	20.9
77.5°	1.4	4.2	2.8	4.2	4.2	2.8	*1.4*	1.4	4.2	4.2	5.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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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REPORT NUMBER: P636493
CATALOG NUMBER: GWS-SA3F-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4	4983.4
2.5°	4951.4	4909.6	4899.9	4897.1	4858.1	4816.3	4773.2	4756.4	4731.4	4716.1	4728.6
5°	4858.1	4798.2	4745.3	4696.6	4610.2	4515.6	4433.4	4380.5	4330.4	4297.0	4305.3
7.5°	4725.8	4647.8	4526.7	4402.8	4244.0	4102.0	3943.3	3845.8	3755.3	3705.2	3728.9
10°	4585.2	4482.1	4288.6	4078.3	3829.1	3606.3	3379.4	3194.2	3087.0	2985.3	2996.4
12.5°	4447.3	4310.9	4021.3	3702.4	3387.7	3059.1	2716.6	2460.4	2284.9	2158.2	2138.7
15°	4319.2	4143.8	3760.9	3340.4	2911.5	2474.3	2037.1	1670.9	1467.6	1342.3	1333.9
17.5°	4205.1	3987.8	3490.8	2961.6	2424.2	1864.4	1361.8	1087.5	970.5	916.2	910.6
20°	4095.1	3830.5	3215.1	2577.3	1892.3	1308.9	939.9	813.2	775.6	753.3	756.1
22.5°	3989.2	3659.2	2925.4	2151.3	1418.9	919.0	728.2	679.5	675.3	678.1	679.5
25°	3900.1	3501.9	2627.5	1740.5	1012.3	700.4	608.5	594.6	607.1	625.2	628.0
27.5°	3854.2	3373.8	2336.5	1327.0	732.4	569.5	527.7	533.3	555.6	575.1	577.8
30°	3866.7	3277.7	2035.7	962.1	563.9	480.4	466.5	477.6	499.9	518.0	520.8
32.5°	3955.8	3229.0	1728.0	700.4	463.7	419.1	413.5	421.9	441.4	455.3	456.7
35°	4132.6	3240.1	1435.6	536.1	398.2	373.2	371.8	377.3	387.1	396.8	398.2
37.5°	4393.0	3330.6	1147.3	445.6	360.6	342.5	337.0	337.0	343.9	348.1	350.9
40°	4672.9	3467.1	919.0	394.0	334.2	314.7	303.5	299.4	304.9	310.5	311.9
42.5°	4904.0	3603.5	746.3	357.8	313.3	286.8	272.9	270.1	277.1	286.8	289.6
45°	5080.9	3709.4	622.4	328.6	289.6	260.4	245.1	245.1	257.6	274.3	277.1
47.5°	5242.4	3794.3	530.5	302.2	267.3	236.7	221.4	224.2	245.1	267.3	271.5
50°	5352.4	3862.5	462.3	278.5	249.2	217.2	203.3	208.9	233.9	260.4	264.6
52.5°	5470.7	3946.1	417.7	257.6	232.5	201.9	189.4	193.5	221.4	250.6	256.2
55°	5798.0	4225.9	416.3	229.7	203.3	181.0	175.4	176.8	204.7	238.1	245.1
57.5°	*6065.3*	*4472.4*	*444.2*	*193.5*	*169.9*	*158.7*	*155.9*	*157.3*	*182.4*	*220.0*	*228.4*
60°	5018.2	3475.4	367.6	160.1	142.0	139.2	135.1	137.8	161.5	194.9	201.9
62.5°	2970.0	1987.0	175.4	122.5	121.1	118.4	114.2	119.7	142.0	171.3	175.4
65°	1015.1	589.0	111.4	100.3	103.0	98.9	94.7	100.3	119.7	136.5	137.8
67.5°	194.9	155.9	89.1	83.5	84.9	76.6	75.2	80.8	91.9	94.7	93.3
70°	101.6	90.5	68.2	68.2	65.4	54.3	54.3	59.9	59.9	55.7	54.3
72.5°	52.9	50.1	44.6	50.1	41.8	33.4	33.4	36.2	33.4	27.8	27.8
75°	20.9	20.9	19.5	25.1	18.1	15.3	13.9	16.7	12.5	9.7	9.7
77.5°	5.6	5.6	5.6	7.0	4.2	4.2	2.8	2.8	1.4	0.0	0.0
80°	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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

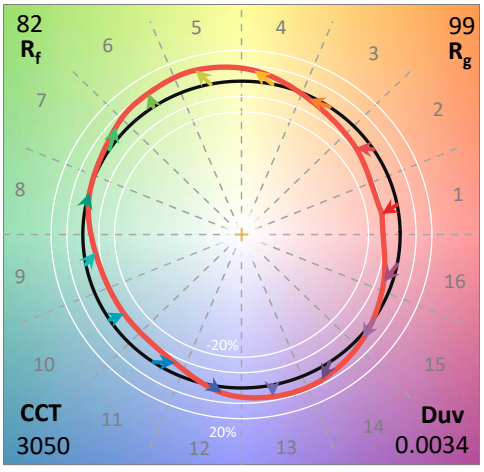
Test Information

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

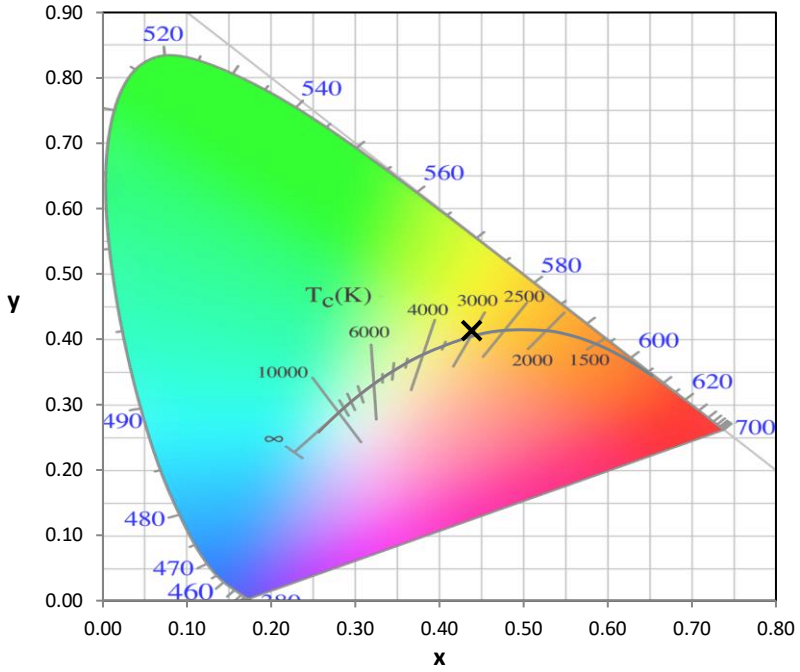
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

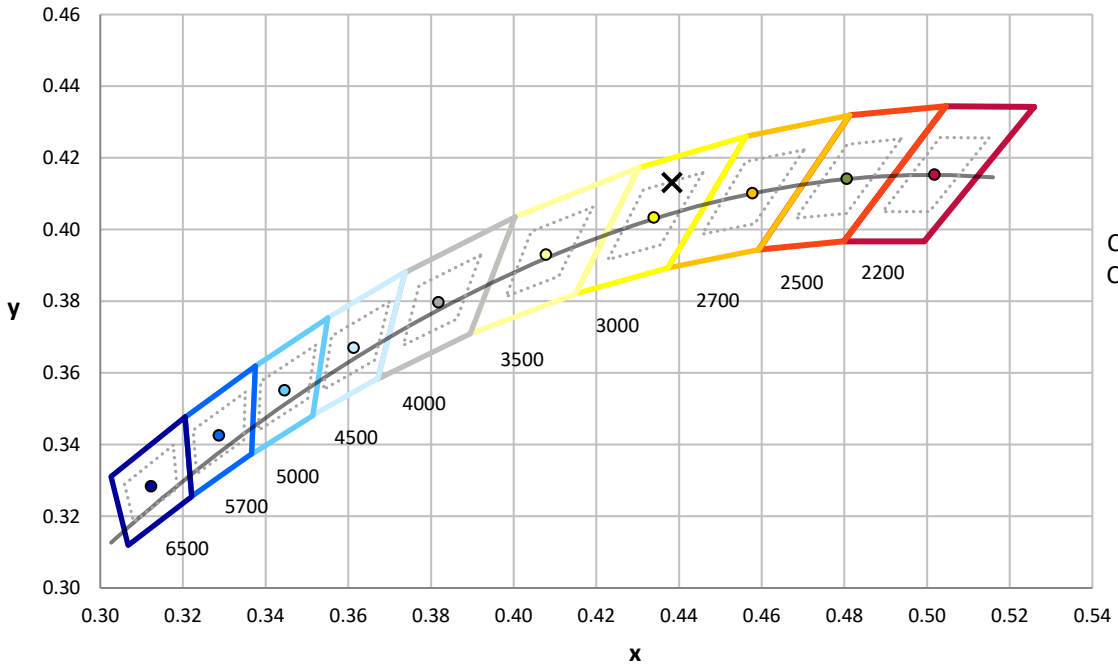
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

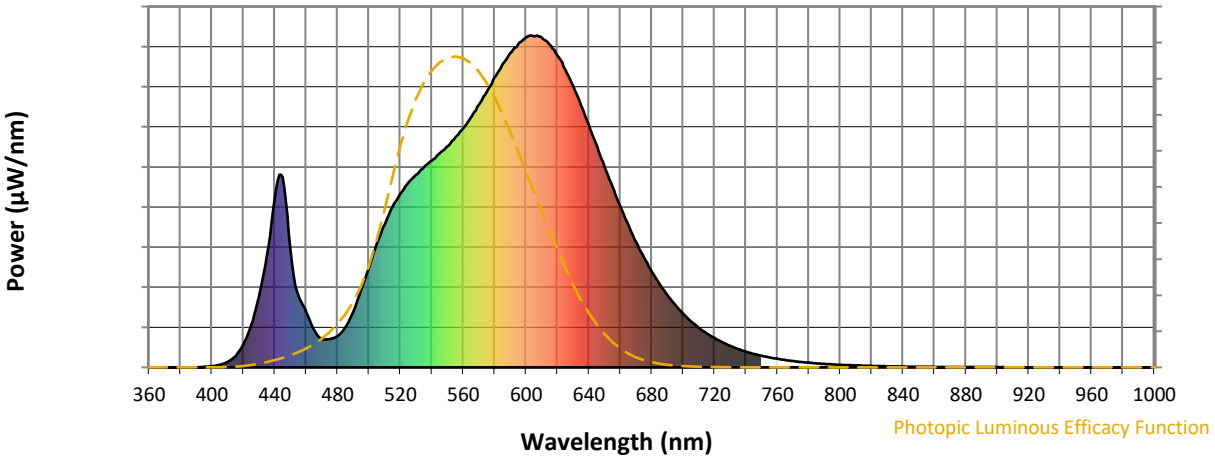


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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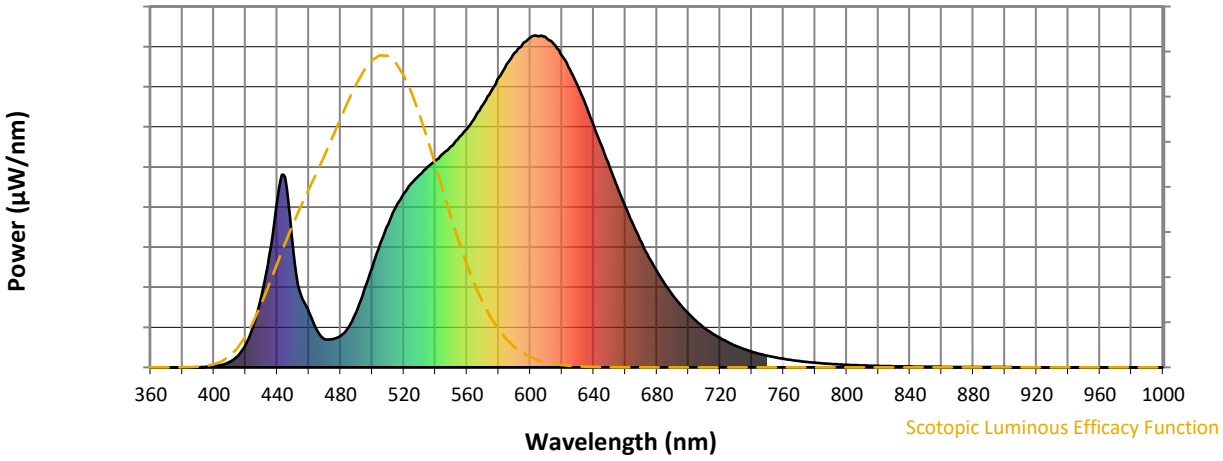
Scotopic Flux vs. Wavelength



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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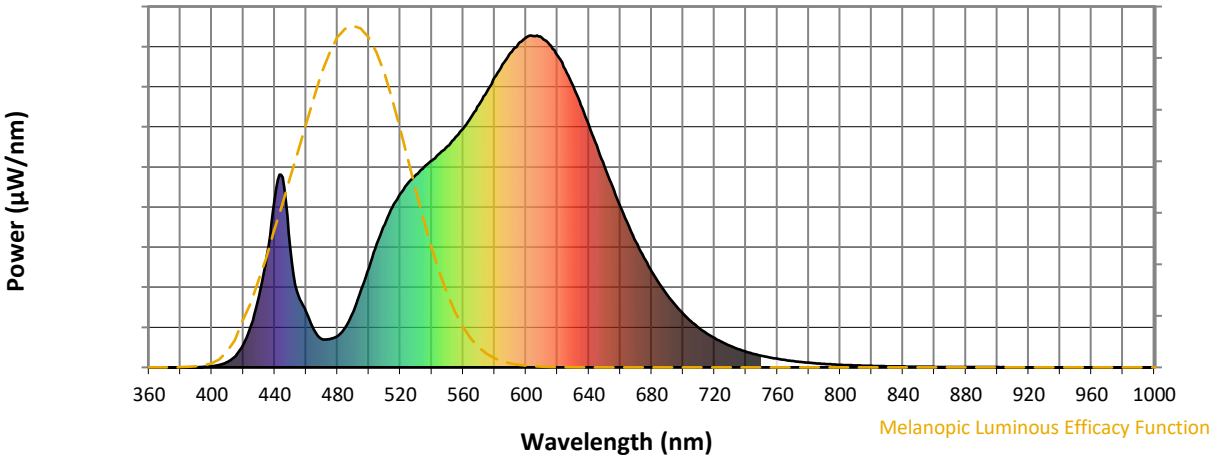
Melanopic Flux vs. Wavelength



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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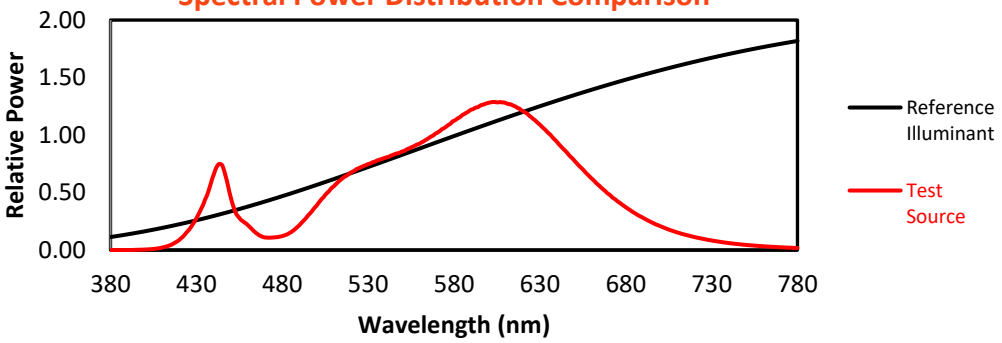
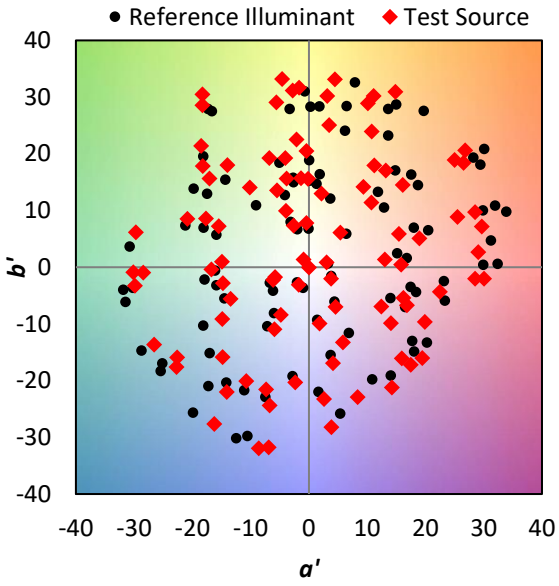
Summary

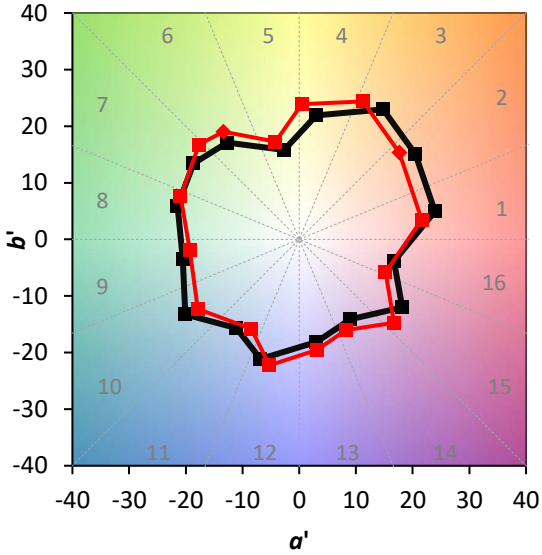
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

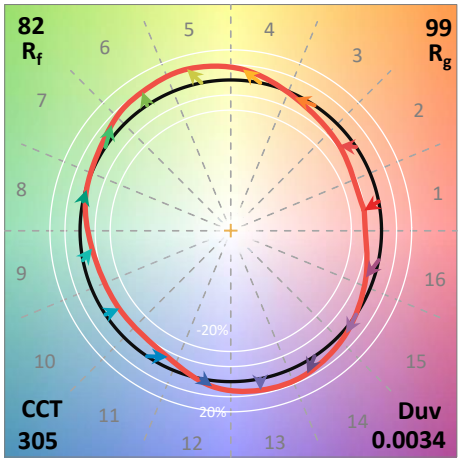
Spectral Power Distribution Comparison

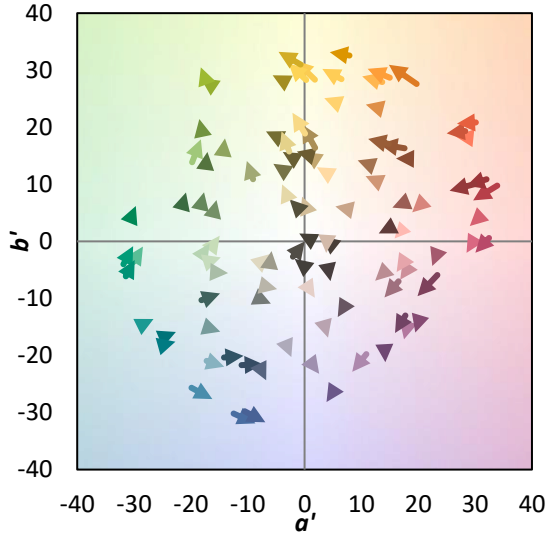


Color Vector Graphics









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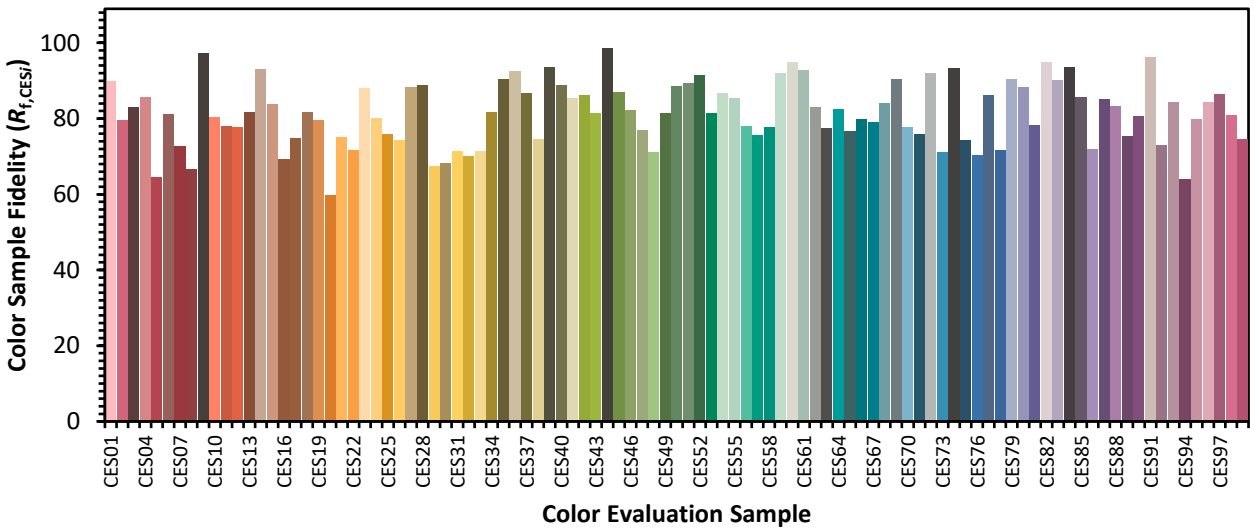
Individual Sample Fidelity Index ($R_{f,i}$)

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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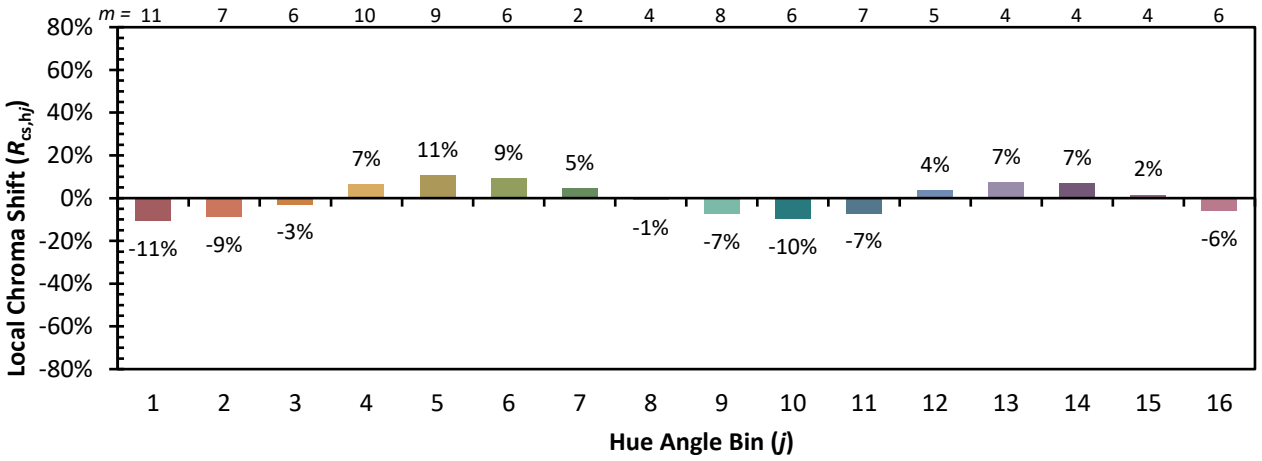
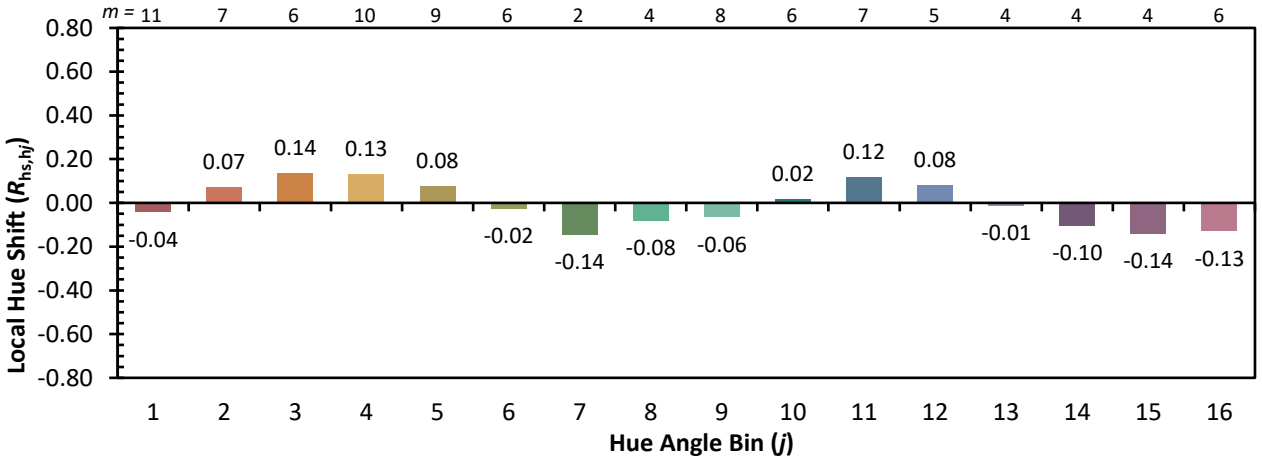
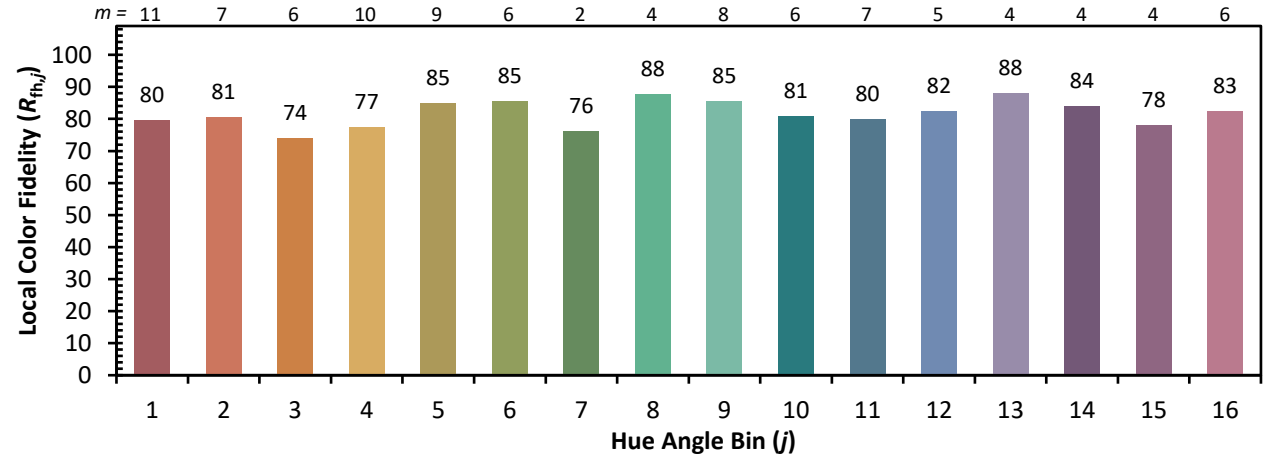
Color Rendition by Hue-Angle Bin







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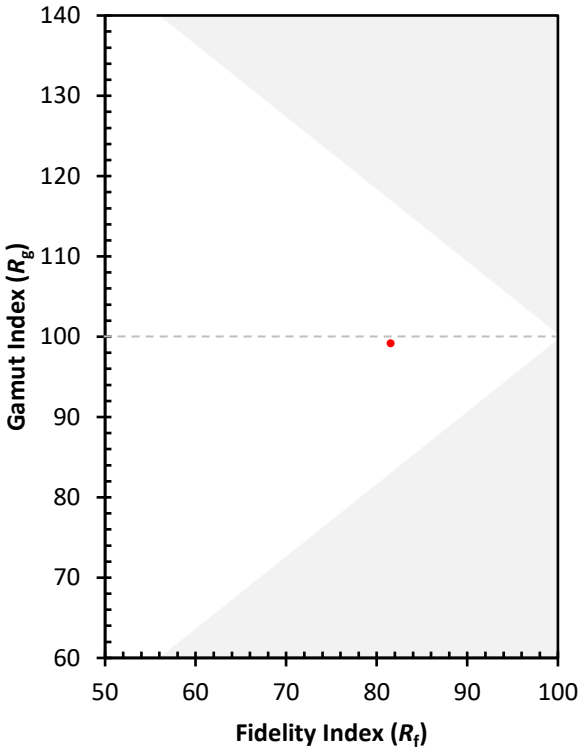
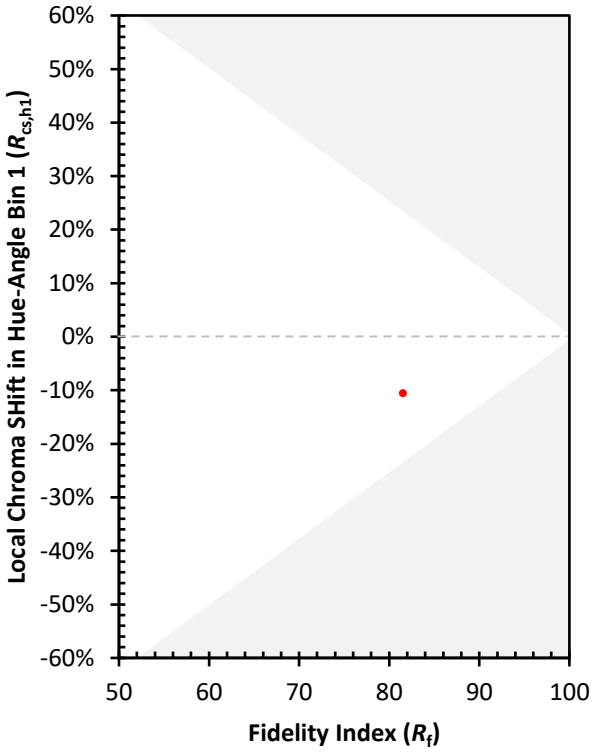
Measure Comparisons





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