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: P636507

Luminaire Tested: GWS-SA3F-830-U-T1-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:	P636507
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3F-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19387.8 lumens
Efficiency:	N/A
Efficacy:	105.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B4 - U0 - G4

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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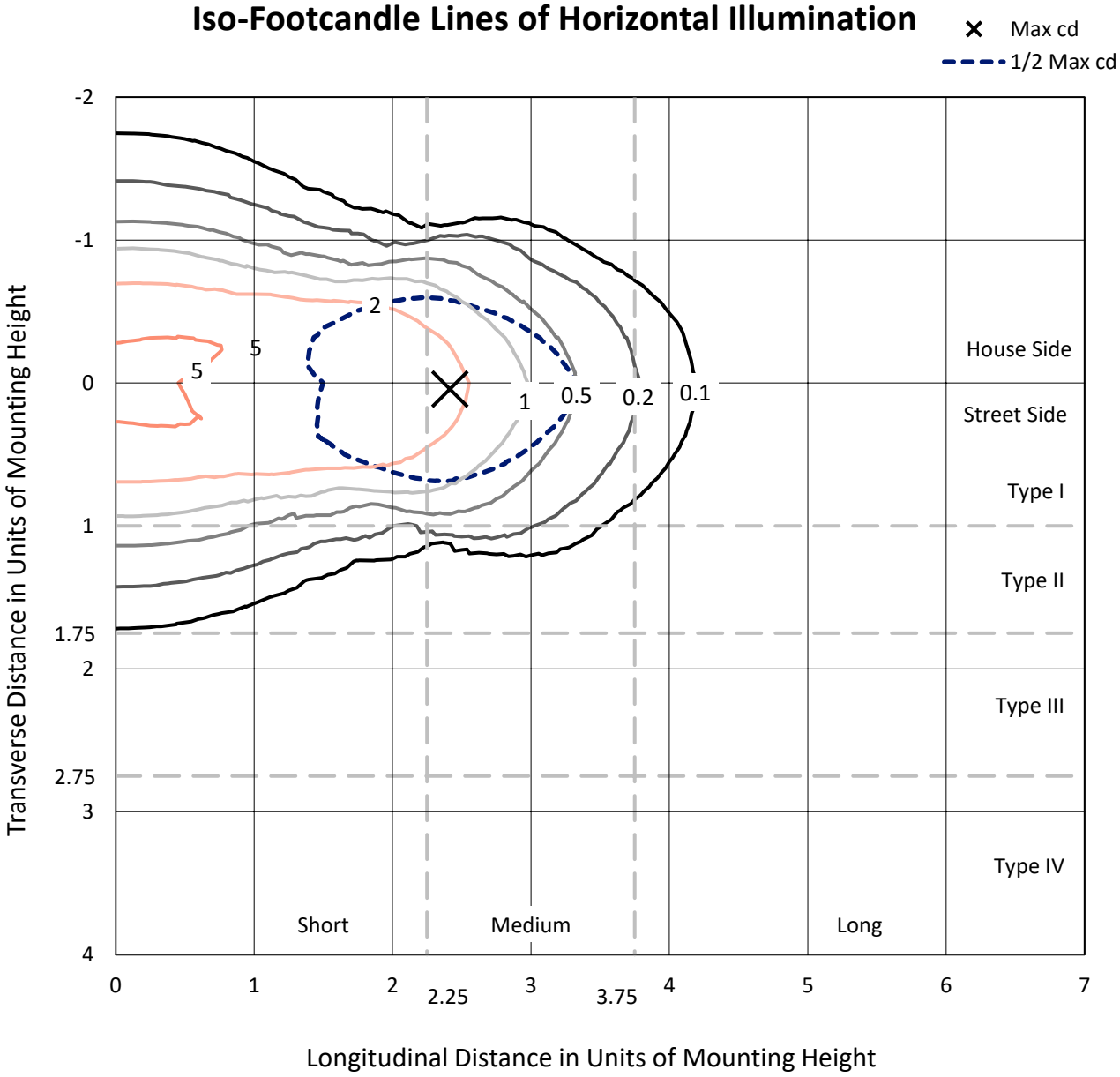
Scaled Data Report

REPORT NUMBER: P636507
CATALOG NUMBER: GWS-SA3F-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type I - Medium - N/A

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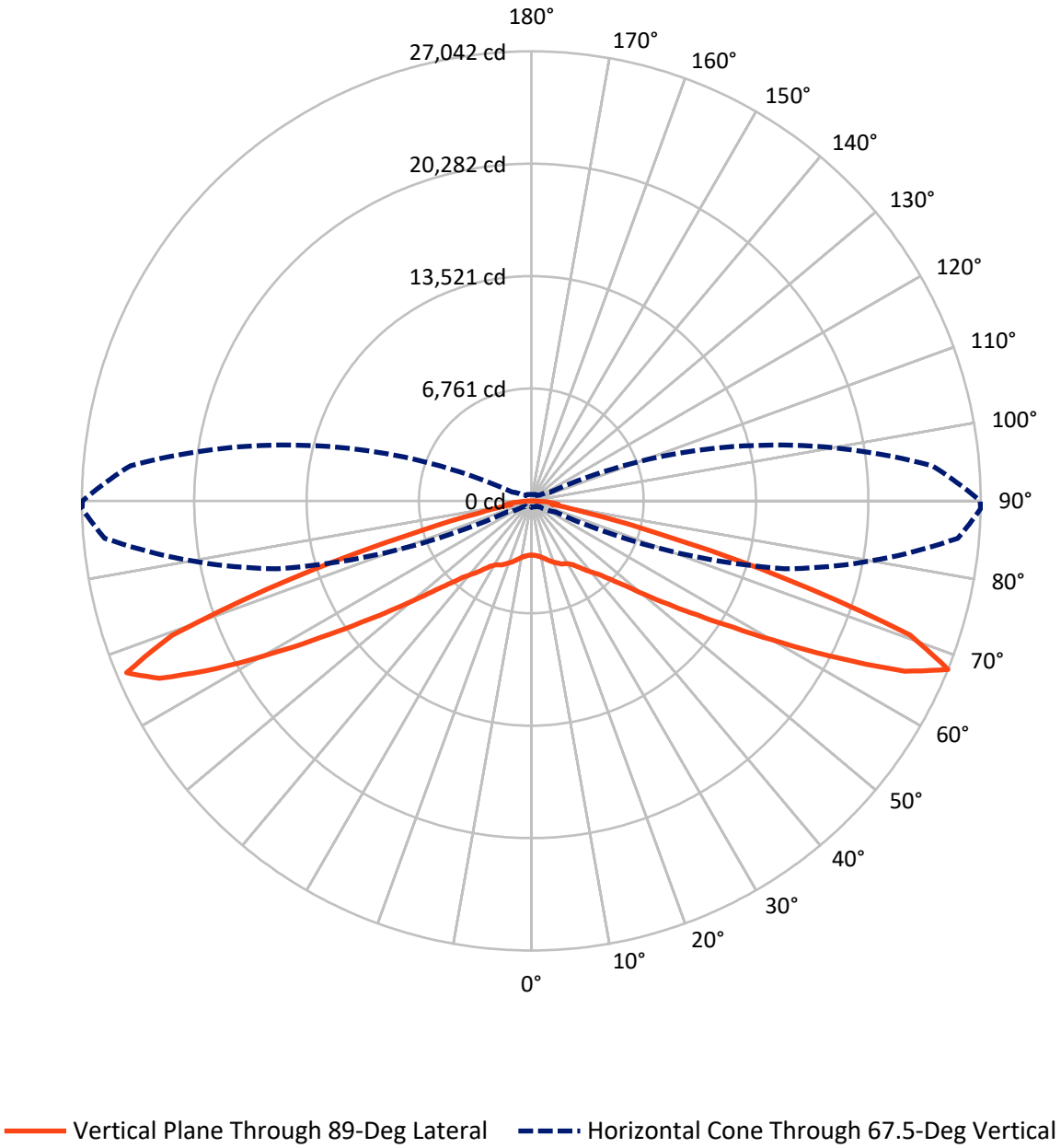
Luminous Intensity Polar Plot



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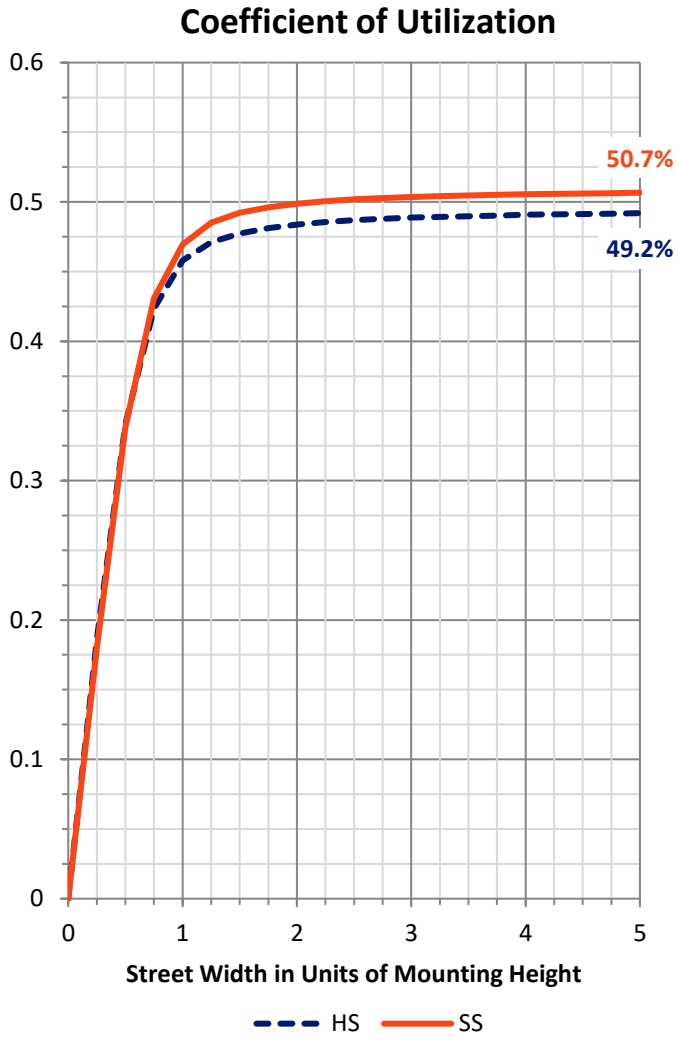
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9608.9	0.0	9608.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9778.9	0.0	9778.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	19387.8	0.0	19387.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.7
10°-20°	1062.8	5.5
20°-30°	1796.7	9.3
30°-40°	2465.7	12.7
40°-50°	3144.3	16.2
50°-60°	3945.0	20.3
60°-70°	4758.1	24.5
70°-80°	1721.3	8.9
80°-90°	167.4	0.9
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°	19387.8	100.0
0°-180°	19387.8	100.0



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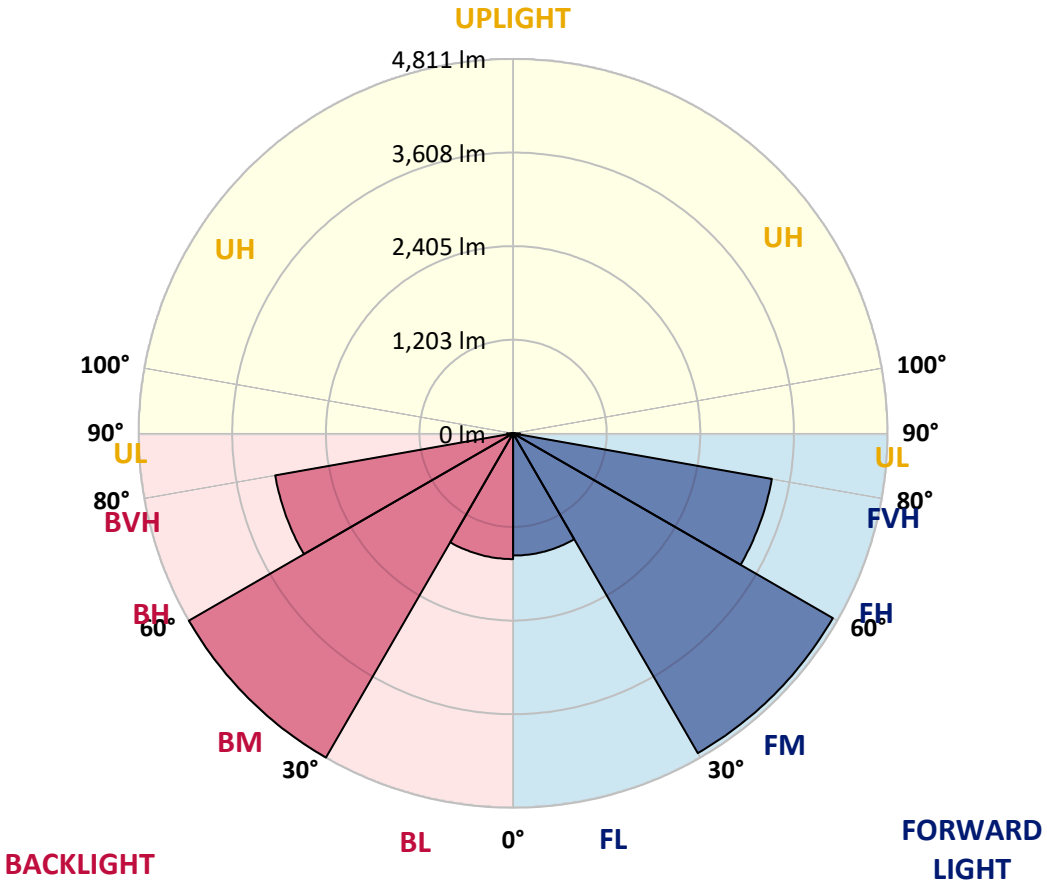
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1570.3	8.1			
FM	(30°-60°)	4744.6	24.5			
FH	(60°-80°)	3375.7	17.4			G2/5000
FVH	(80°-90°)	88.3	0.5			G1/100
BL	(0°-30°)	1615.7	8.3	B3/2500		
BM	(30°-60°)	4810.5	24.8	B3/5000		
BH	(60°-80°)	3103.7	16.0	B4/5000		G4/5000
BVH	(80°-90°)	79.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type I Medium



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Scaled Data Report

REPORT NUMBER: P636507
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	*3254.1*
2.5°	3263.8	3261.0	3254.1	3275.0	3270.8	3272.2	3280.5	3275.0	3265.2	3248.5	*3272.2*
5°	3355.7	3354.3	3339.0	3351.6	3337.6	3327.9	3326.5	3312.6	3301.4	3283.3	*3308.4*
7.5°	3444.8	3443.5	3430.9	3453.2	3442.1	3430.9	3418.4	3390.5	3364.1	3337.6	*3365.5*
10°	3513.1	3511.7	3508.9	3540.9	3543.7	3547.9	3542.3	3495.0	3449.0	3417.0	*3444.8*
12.5°	3552.1	3556.2	3563.2	3621.7	3650.9	3678.8	3685.7	3646.7	3570.2	3524.2	*3557.6*
15°	3525.6	3534.0	3568.8	3674.6	3755.4	3818.0	3844.5	3812.4	3713.6	3637.0	*3674.6*
17.5°	3398.9	3405.9	3474.1	3635.6	3813.8	3958.7	4001.8	3982.3	3872.3	3779.0	*3815.2*
20°	3223.5	3238.8	3312.6	3538.1	3804.1	4056.1	4171.7	4164.7	4045.0	3901.6	*3944.7*
22.5°	3064.7	3082.8	3160.8	3410.0	3738.6	4081.2	4343.0	4361.1	4202.3	4024.1	*4058.9*
25°	2886.5	2903.2	3003.5	3258.3	3625.9	4061.7	4489.2	4571.3	4380.6	4164.7	*4196.8*
27.5°	2704.1	2716.6	2815.5	3087.0	3478.3	4025.5	4604.7	4802.5	4556.0	4262.2	*4284.5*
30°	2544.0	2560.7	2651.2	2915.7	3316.7	3953.1	4699.4	5048.9	4757.9	4372.2	*4390.3*
32.5°	2389.4	2403.3	2502.2	2747.2	3145.5	3841.7	4784.4	5338.5	5057.3	4576.9	*4576.9*
35°	2194.5	2219.5	2330.9	2585.7	2984.0	3694.1	4845.6	5675.5	5466.6	4879.0	*4880.4*
37.5°	2014.8	2028.8	2145.7	2403.3	2814.1	3527.0	4851.2	6025.0	5984.6	5263.3	*5266.1*
40°	1810.1	1828.2	1953.6	2208.4	2619.1	3351.6	4798.3	6350.8	6527.7	5658.8	*5643.5*
42.5°	1602.7	1629.1	1748.9	1998.1	2408.9	3137.1	4657.6	6661.3	7216.9	6116.9	*6079.3*
45°	1402.2	1418.9	1538.6	1773.9	2168.0	2880.9	4432.1	6959.3	8035.7	6813.1	*6758.8*
47.5°	1176.6	1183.6	1307.5	1533.1	1918.8	2595.5	4109.0	7225.3	8935.2	7734.9	*7641.6*
50°	976.1	985.8	1083.3	1276.8	1613.8	2257.1	3706.6	7381.2	10081.1	8992.2	*8830.7*
52.5°	789.5	799.2	877.2	1031.8	1333.9	1871.4	3208.1	7345.0	11243.8	10553.2	*10317.8*
55°	637.7	644.7	697.6	818.7	1049.9	1488.5	2619.1	7020.6	12534.6	12591.7	*12084.8*
57.5°	538.9	541.7	577.9	651.7	820.1	1147.4	2021.8	6254.8	13888.0	15192.7	*14360.0*
60°	481.8	483.2	499.9	545.8	647.5	875.8	1481.5	5035.0	15290.2	18446.8	*17305.0*
62.5°	445.6	445.6	459.5	486.0	537.5	673.9	1088.9	3616.1	16296.9	21987.7	*20852.9*
65°	410.8	410.8	420.5	442.8	470.6	550.0	817.4	2332.3	16791.2	24948.0	*24696.0*
67.5°	*366.2*	*367.6*	*374.6*	*398.2*	*423.3*	*459.5*	*619.6*	*1577.6*	*15765.0*	*25766.7*	*27042.2*
70°	324.4	325.8	335.6	350.9	371.8	396.8	484.6	1087.5	11474.9	21460.0	*24179.4*
72.5°	278.5	284.1	291.0	307.7	320.3	338.4	395.4	704.6	6676.7	13804.5	*15983.6*
75°	228.4	235.3	243.7	260.4	268.7	275.7	325.8	502.7	3212.3	6995.5	*7966.0*
77.5°	176.8	183.8	193.5	208.9	214.4	222.8	249.2	363.4	1538.6	3100.9	*3343.2*
80°	118.4	121.1	129.5	147.6	157.3	162.9	183.8	247.9	668.4	1244.8	*1233.7*
82.5°	72.4	73.8	76.6	87.7	91.9	97.5	119.7	151.8	318.9	1414.7	*1622.2*
85°	26.5	25.1	23.7	30.6	36.2	41.8	55.7	76.6	139.2	971.9	*1087.5*
87.5°	0.0	0.0	0.0	1.4	2.8	2.8	5.6	11.1	33.4	363.4	*249.2*
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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Scaled Data Report

REPORT NUMBER: P636507
CATALOG NUMBER: GWS-SA3F-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1	3254.1
2.5°	3265.2	3249.9	3269.4	3283.3	3314.0	3325.1	3327.9	3318.1	3318.1	3301.4	3304.2
5°	3302.8	3293.1	3325.1	3348.8	3393.3	3410.0	3421.2	3414.2	3418.4	3407.3	3410.0
7.5°	3359.9	3351.6	3407.3	3453.2	3499.2	3518.6	3528.4	3522.8	3524.2	3510.3	3514.5
10°	3439.3	3442.1	3508.9	3568.8	3630.0	3649.5	3653.7	3637.0	3623.1	3598.0	3599.4
12.5°	3547.9	3561.8	3656.5	3723.3	3786.0	3813.8	3783.2	3721.9	3664.9	3621.7	3616.1
15°	3666.2	3691.3	3827.8	3912.7	3980.9	3967.0	3876.5	3738.6	3625.9	3561.8	3549.3
17.5°	3808.3	3845.9	4017.1	4118.8	4177.3	4088.1	3898.8	3692.7	3535.4	3449.0	3432.3
20°	3941.9	4001.8	4217.6	4349.9	4356.9	4156.4	3889.0	3599.4	3401.7	3295.9	3273.6
22.5°	4064.5	4141.1	4427.9	4596.4	4505.9	4187.0	3829.2	3467.1	3240.2	3116.2	3096.7
25°	4198.1	4306.8	4673.0	4830.3	4654.9	4174.5	3703.8	3302.8	3045.2	2918.5	2904.6
27.5°	4290.0	4426.5	4919.4	5069.8	4777.4	4103.5	3542.3	3123.2	2867.0	2747.2	2727.8
30°	4395.9	4569.9	5190.9	5330.2	4852.6	3999.0	3369.7	2956.1	2701.3	2571.8	2557.9
32.5°	4588.0	4806.6	5527.9	5605.9	4876.3	3869.5	3204.0	2794.6	2528.6	2399.1	2379.6
35°	4897.1	5153.3	6001.3	5913.6	4858.2	3727.5	3046.6	2605.2	2351.8	2230.7	2211.2
37.5°	5287.0	5605.9	6529.1	6190.7	4808.0	3571.6	2860.0	2446.5	2193.1	2070.5	2059.4
40°	5650.4	6043.1	7120.8	6430.2	4706.4	3379.4	2680.4	2280.8	2021.8	1892.3	1867.2
42.5°	6105.8	6627.9	7805.9	6637.7	4539.3	3149.7	2478.5	2076.1	1807.4	1690.4	1659.8
45°	6797.8	7446.7	8602.4	6836.8	4290.0	2867.0	2225.1	1826.9	1572.0	1452.3	1428.6
47.5°	7661.1	8470.1	9465.7	6955.1	3911.3	2569.0	1938.2	1563.7	1308.9	1173.8	1162.7
50°	8873.9	9958.6	10391.6	6934.3	3488.0	2215.3	1615.2	1250.4	1037.4	939.9	924.6
52.5°	10351.3	11827.2	11392.8	6683.6	3038.3	1812.9	1258.7	981.7	822.9	753.3	740.8
55°	12204.6	14064.8	12446.8	6146.1	2470.2	1388.2	988.6	774.2	665.6	623.8	618.2
57.5°	14499.3	16962.5	13461.9	5241.1	1857.5	1059.6	761.7	639.1	587.6	562.5	561.1
60°	17527.8	20038.3	14343.3	4072.8	1329.8	810.4	629.4	570.9	530.5	513.8	512.4
62.5°	21128.6	22831.5	14891.9	2773.7	999.8	646.1	554.2	518.0	494.3	484.6	483.2
65°	24829.6	24597.1	14630.2	1817.1	758.9	548.6	497.1	477.6	456.7	447.0	447.0
67.5°	*27015.7*	*24223.9*	*12620.9*	*1261.5*	*601.5*	*481.8*	*448.4*	*430.3*	*395.4*	*387.1*	*387.1*
70°	23928.7	19628.9	8272.4	923.2	487.3	421.9	389.9	364.8	350.9	342.5	341.1
72.5°	15826.2	12772.7	4398.7	640.5	406.6	359.2	330.0	320.3	303.5	295.2	293.8
75°	7876.9	6708.7	2254.3	462.3	338.4	288.2	275.7	271.5	257.6	246.5	243.7
77.5°	3283.3	2986.7	1051.3	335.6	257.6	232.5	221.4	221.4	206.1	193.5	188.0
80°	1237.9	1102.8	497.1	229.7	190.8	172.7	165.7	160.1	147.6	132.3	123.9
82.5°	1655.6	1081.9	243.7	143.4	125.3	111.4	101.6	97.5	90.5	83.5	78.0
85°	1072.2	768.6	110.0	73.8	62.7	47.3	41.8	39.0	34.8	30.6	27.8
87.5°	218.6	257.6	33.4	13.9	8.4	4.2	4.2	1.4	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

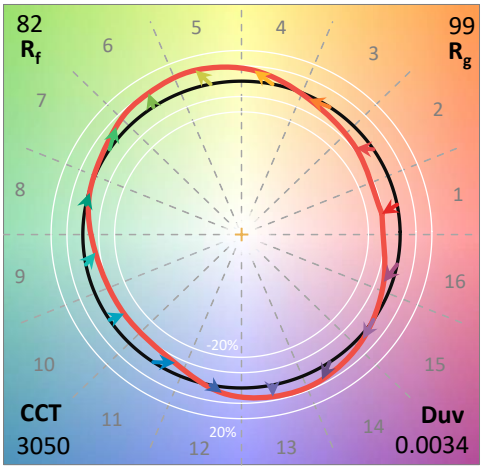
Test Information

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

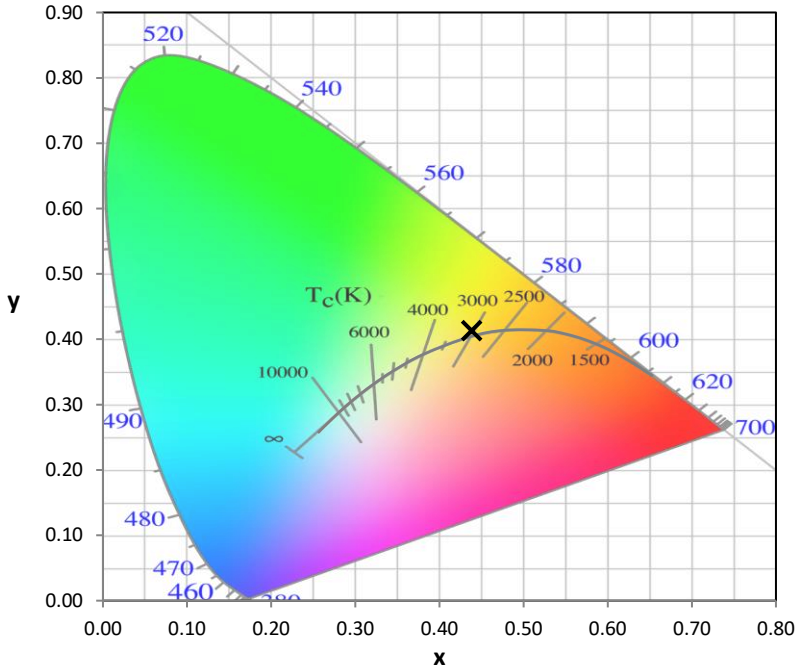
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

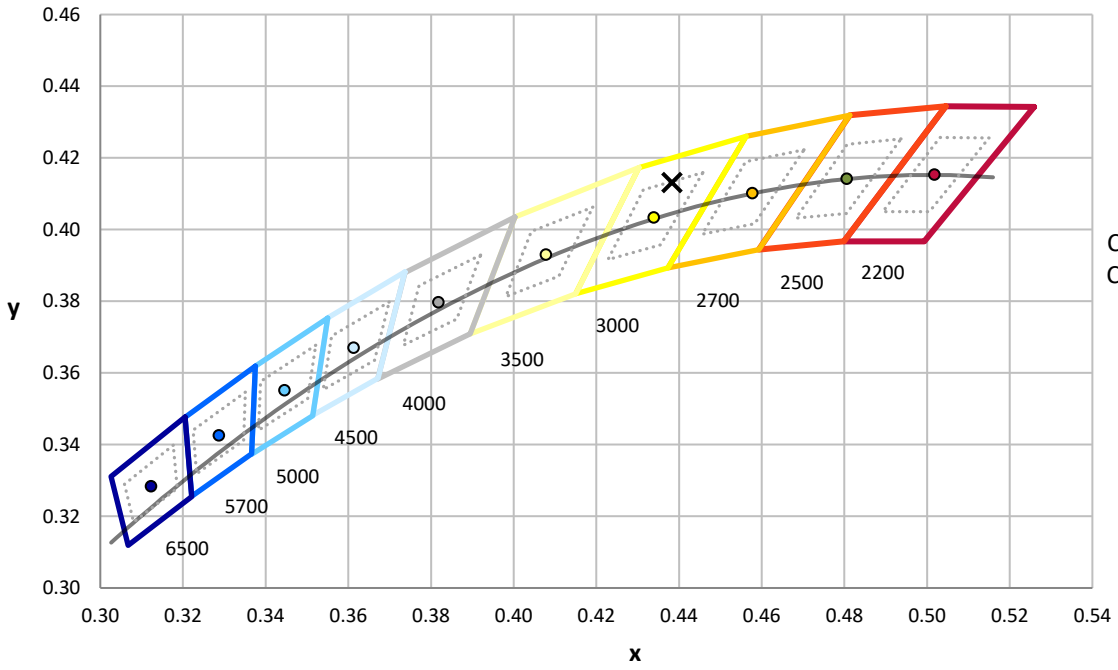
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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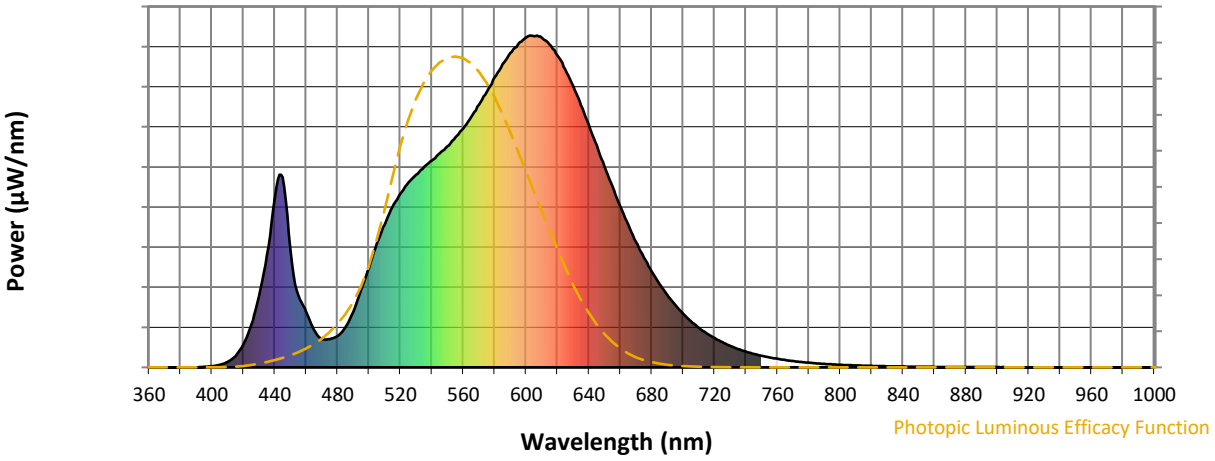
Photopic Flux vs. Wavelength



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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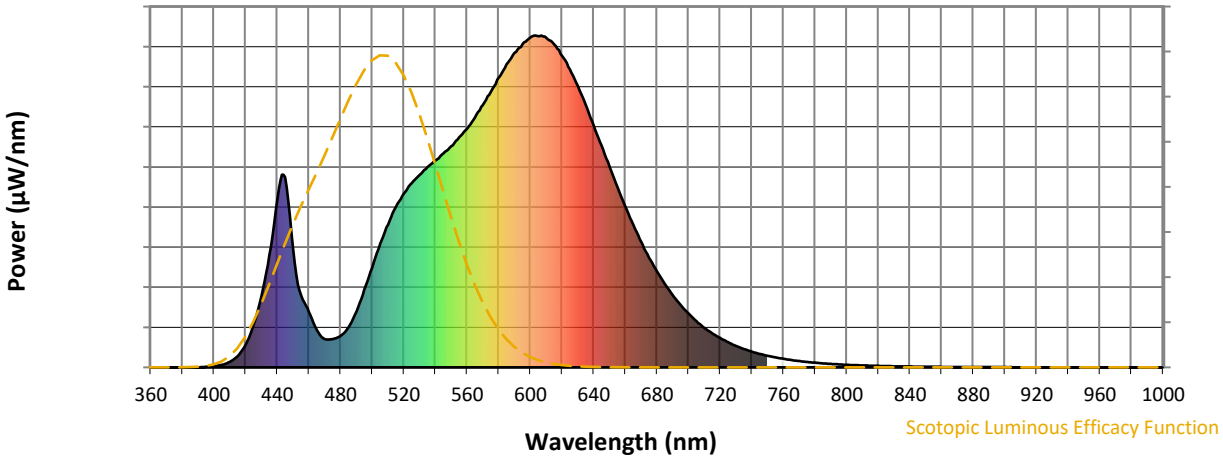
Scotopic Flux vs. Wavelength



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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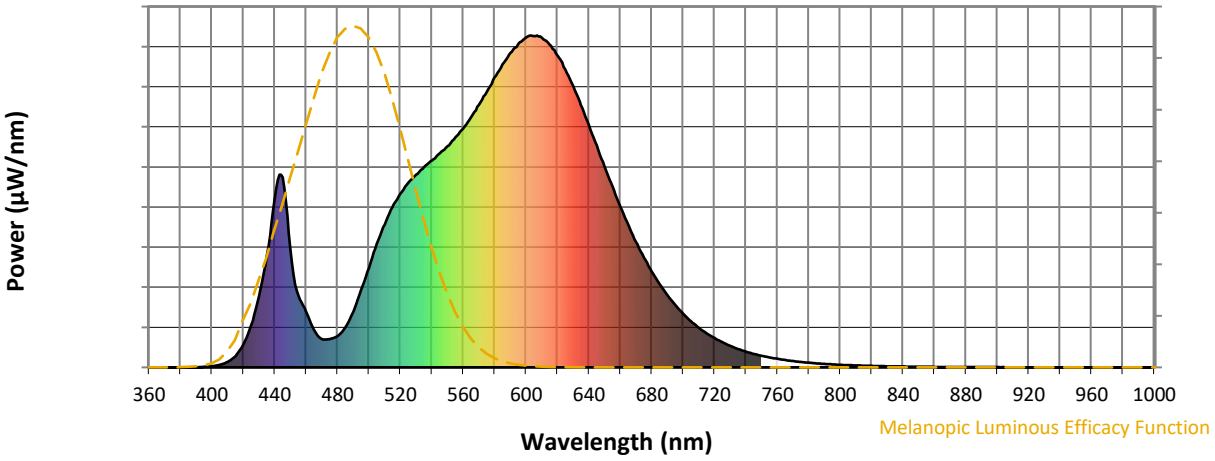
Melanopic Flux vs. Wavelength



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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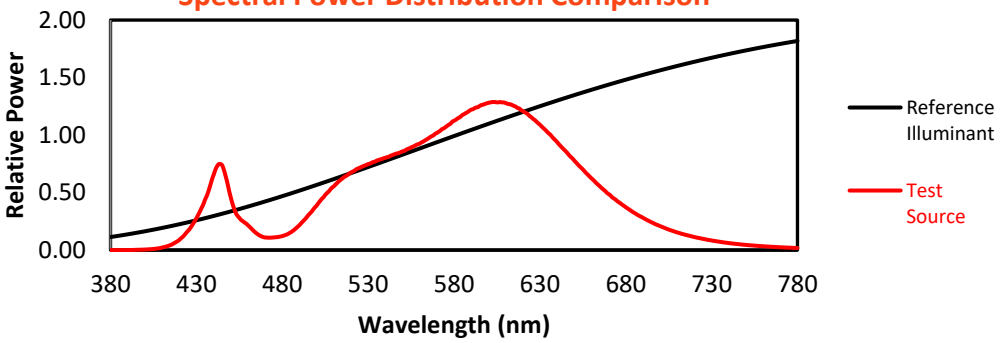
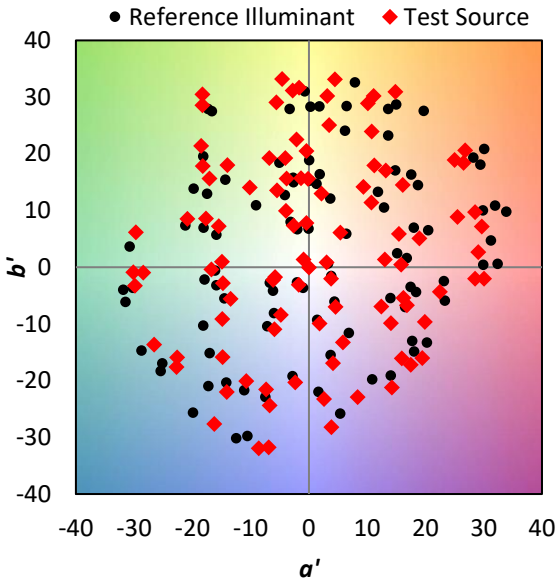
Summary

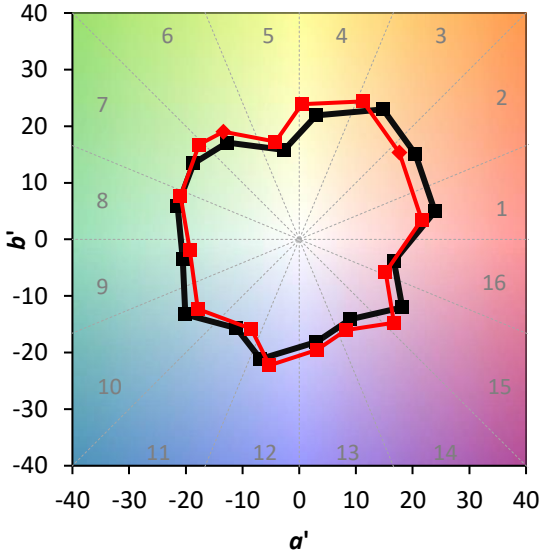
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

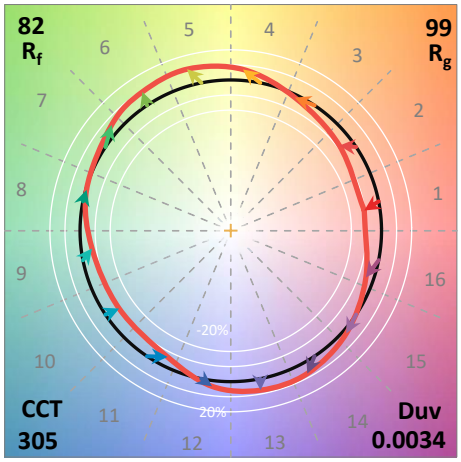
Spectral Power Distribution Comparison

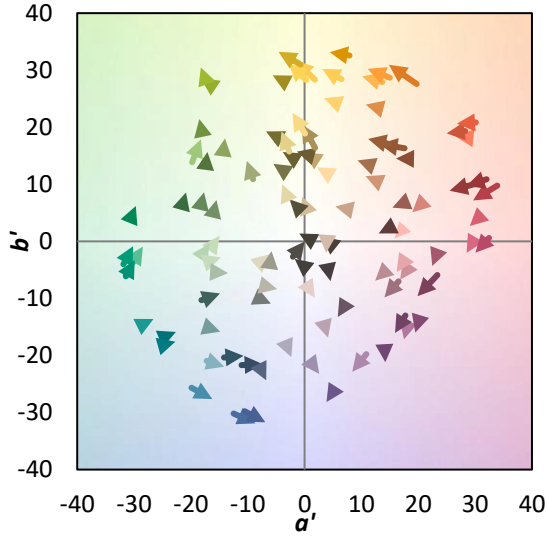


Color Vector Graphics









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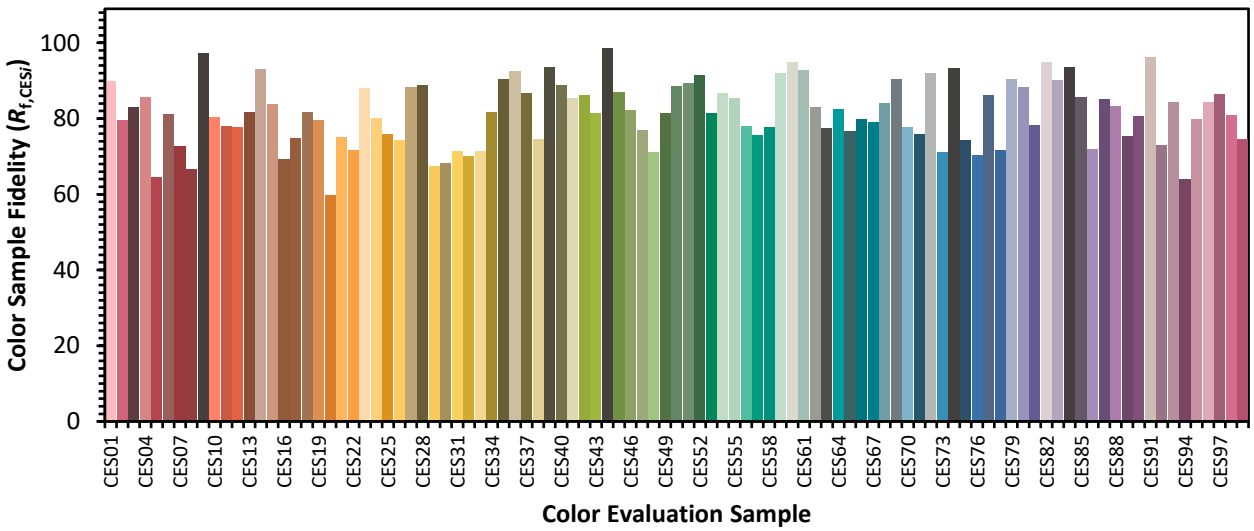
Individual Sample Fidelity Index ($R_{f,i}$)

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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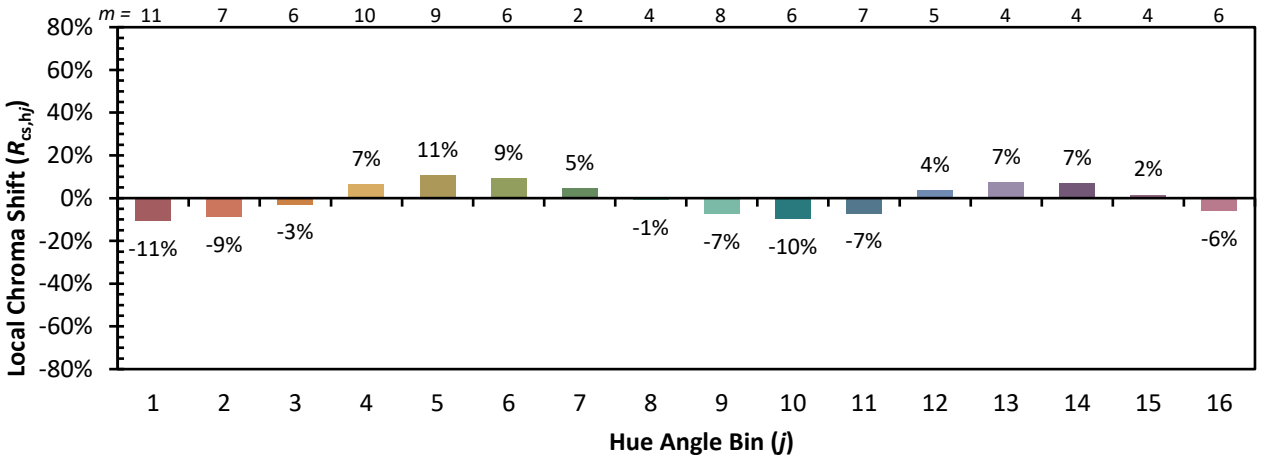
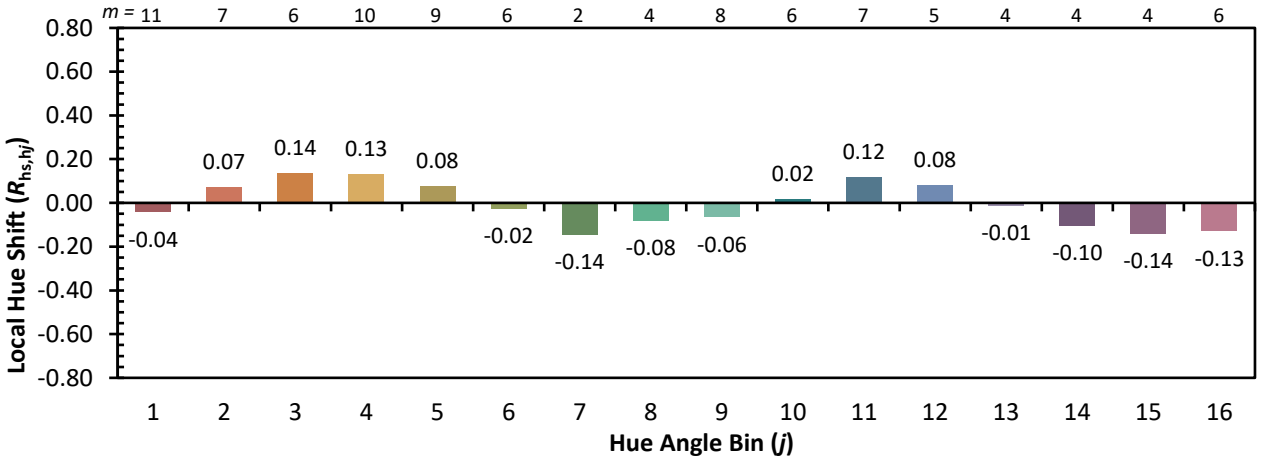
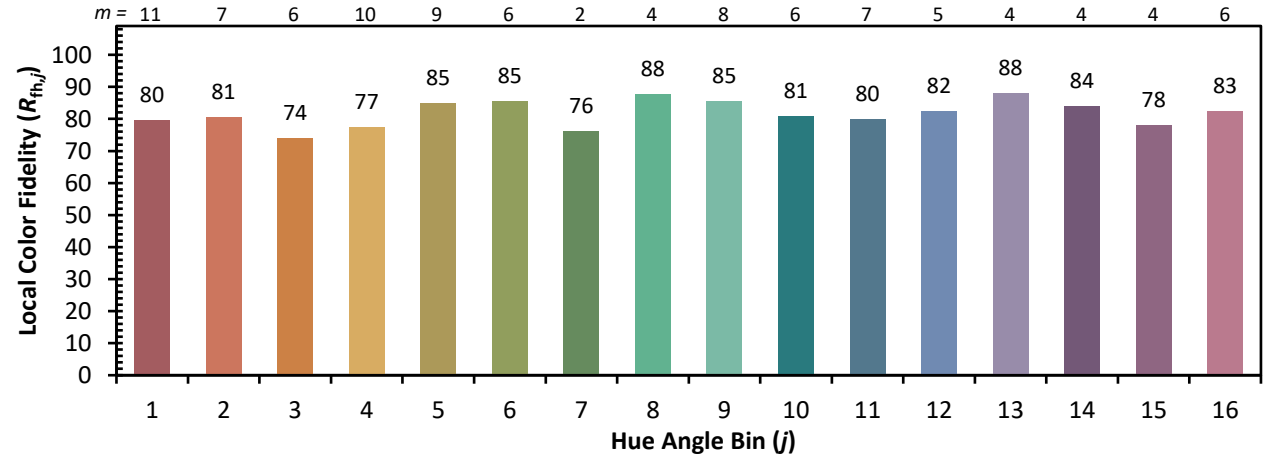
Color Rendition by Hue-Angle Bin







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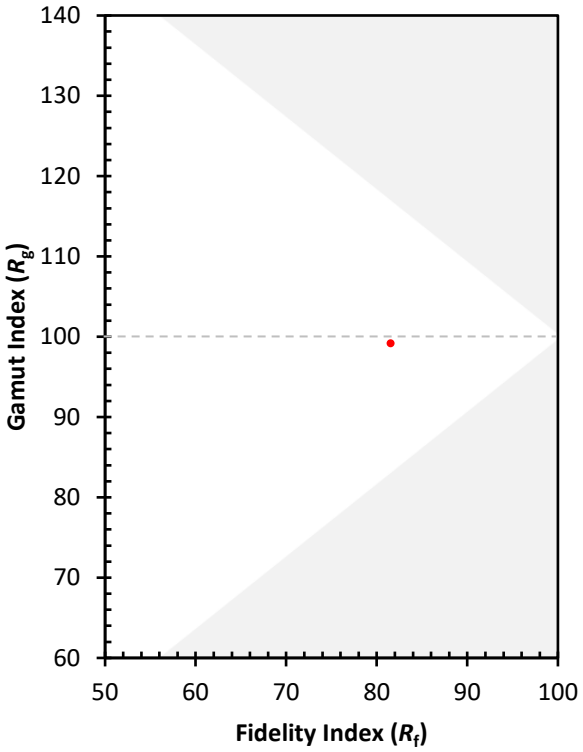
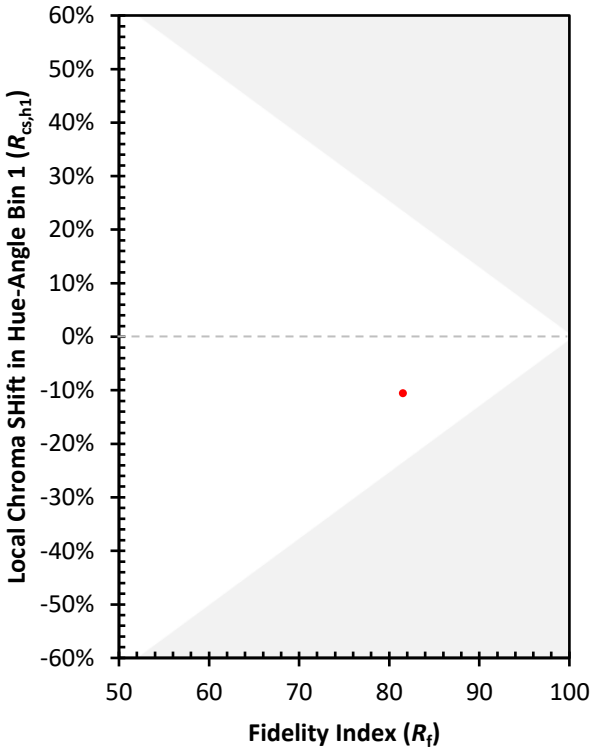
Measure Comparisons





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