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: P634008

Luminaire Tested: GWS-SA2F-830-U-AFL-W-GRSWH

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:	P634008
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-AFL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11691.1 lumens
Efficiency:	N/A
Efficacy:	93.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	124.5
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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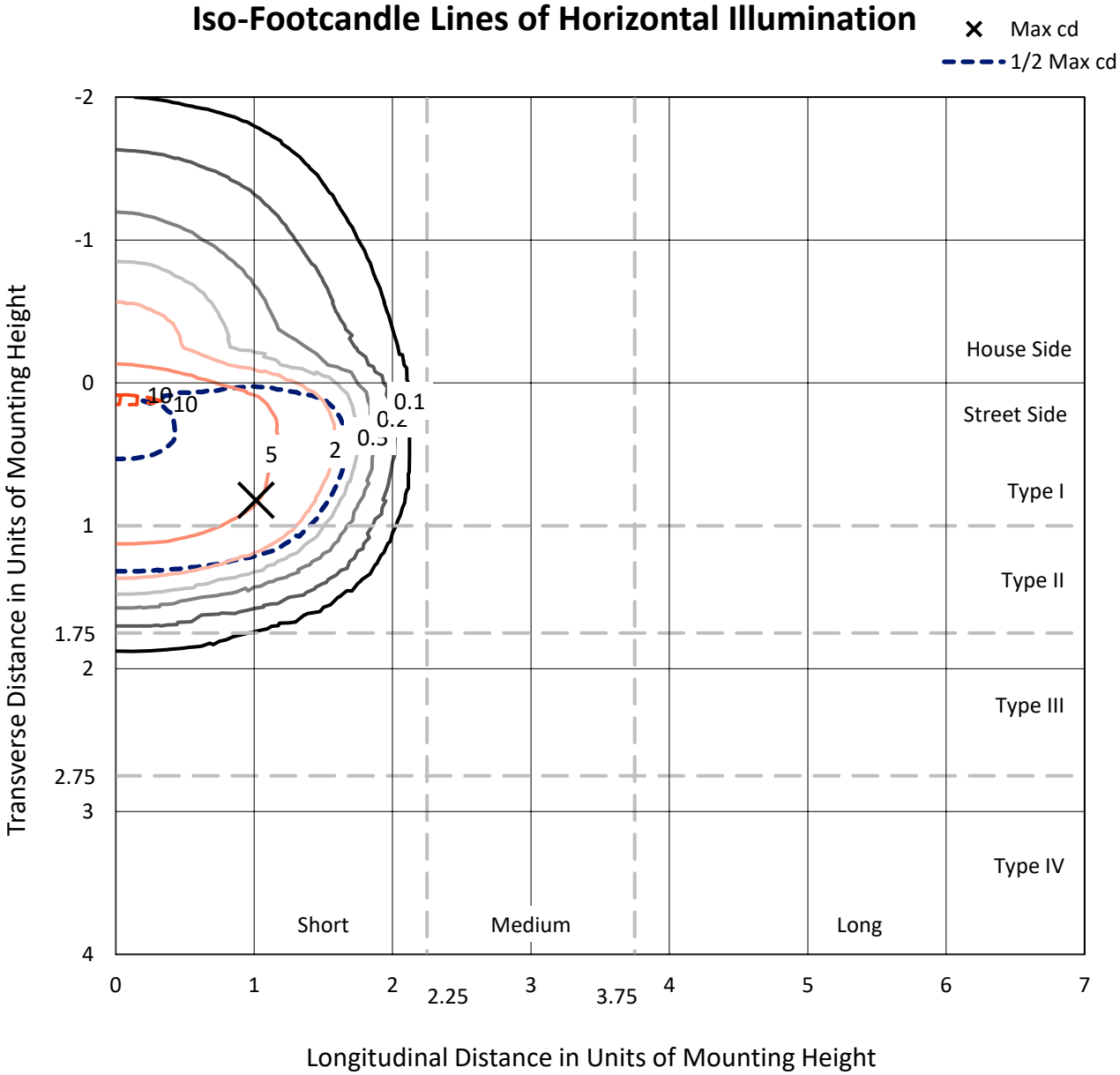
Scaled Data Report

REPORT NUMBER: P634008
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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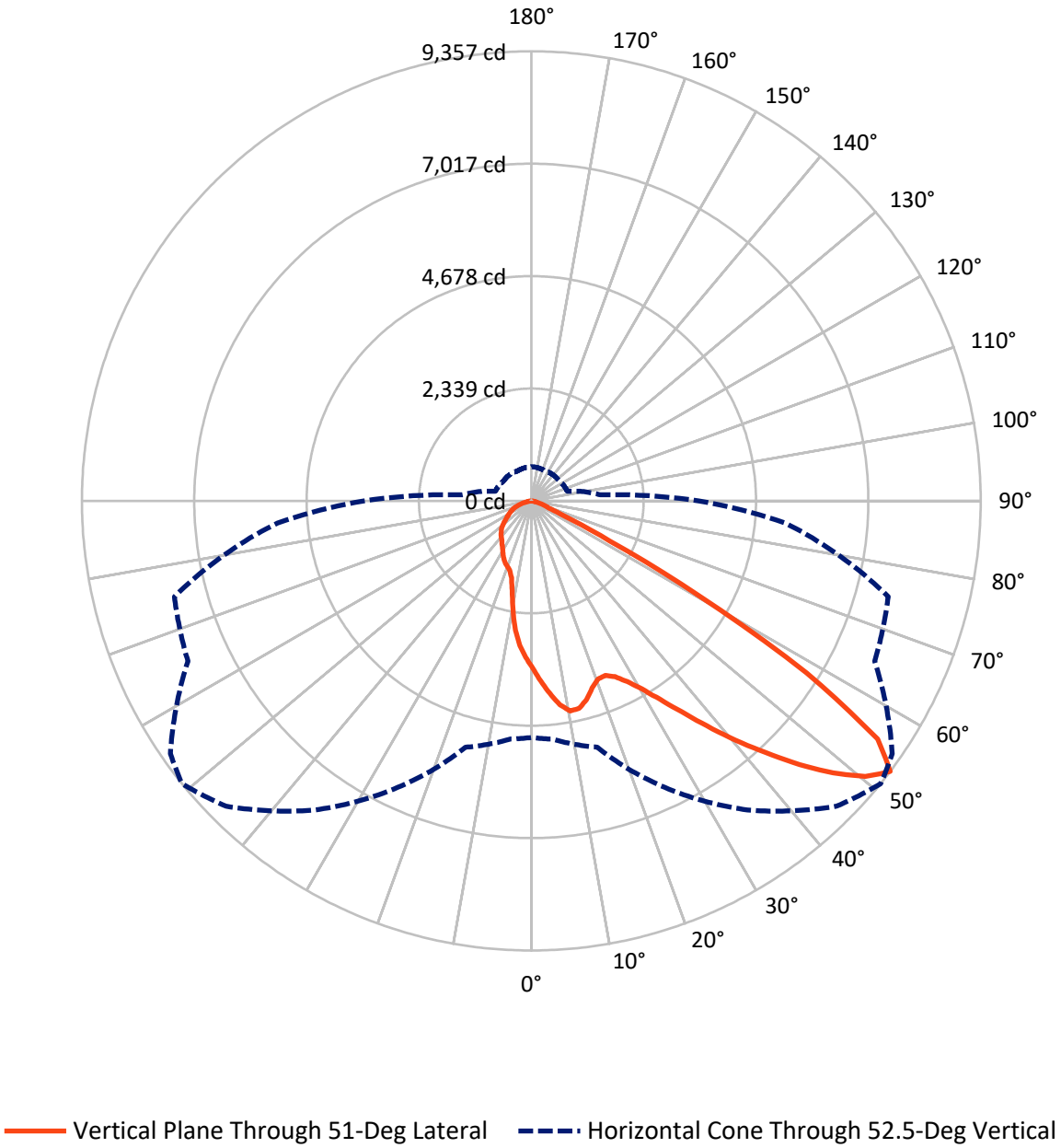
Luminous Intensity Polar Plot



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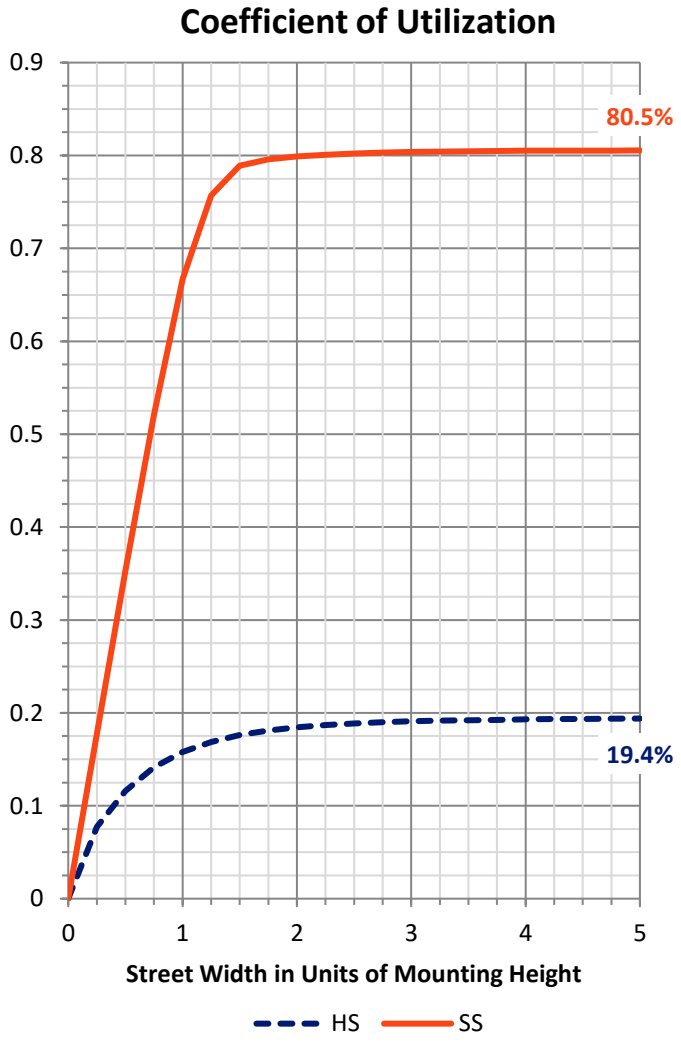
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.9	0.0	2277.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9413.2	0.0	9413.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	11691.1	0.0	11691.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	2.8
10°-20°	844.0	7.2
20°-30°	1372.3	11.7
30°-40°	2174.8	18.6
40°-50°	3280.1	28.1
50°-60°	2837.6	24.3
60°-70°	643.3	5.5
70°-80°	189.7	1.6
80°-90°	24.4	0.2
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°	11691.1	100.0
0°-180°	11691.1	100.0



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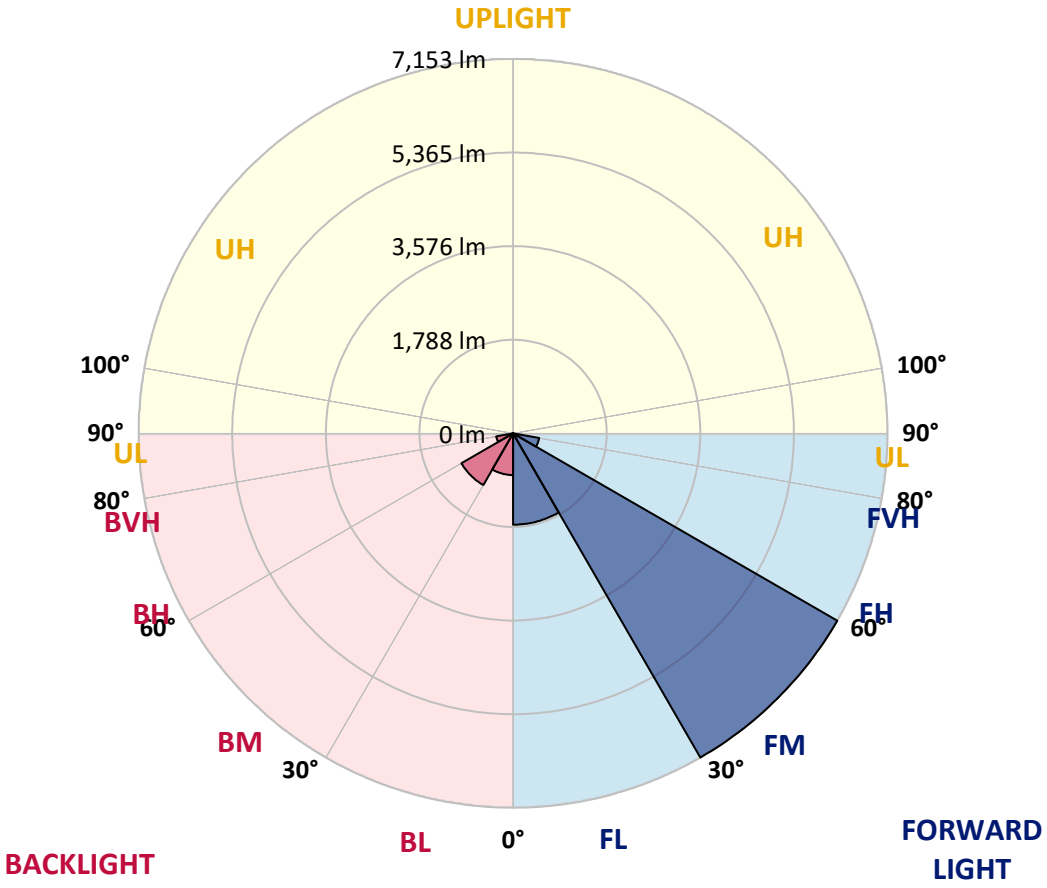
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1744.9	14.9			
FM	(30°-60°)	7152.8	61.2			
FH	(60°-80°)	506.3	4.3			G0/660
FVH	(80°-90°)	9.2	0.1			G0/10
BL	(0°-30°)	796.3	6.8	B2/1000		
BM	(30°-60°)	1139.7	9.7	B2/2500		
BH	(60°-80°)	326.7	2.8	B1/500		G1/500
BVH	(80°-90°)	15.2	0.1			G1/100
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: P634008
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	*3481.0*	3481.0	3481.0	3481.0	3481.0
2.5°	3879.2	3901.4	3867.2	3854.3	3833.0	3796.1	*3753.6*	3741.5	3650.1	3590.0	3522.6
5°	4269.1	4281.1	4253.4	4225.6	4173.0	4107.4	*4025.2*	4007.6	3841.3	3703.7	3560.5
7.5°	4355.9	4351.3	4375.3	4391.0	4384.5	4358.7	*4285.7*	4251.5	4052.9	3834.9	3623.3
10°	4012.2	3986.4	4075.1	4180.4	4306.9	4452.9	*4444.6*	4441.8	4269.1	4011.3	3703.7
12.5°	3556.8	3543.8	3615.9	3748.0	3987.3	4310.6	*4431.7*	4525.9	4464.0	4179.4	3793.3
15°	3296.3	3291.6	3340.6	3435.8	3626.1	4034.4	*4293.1*	4479.7	4631.2	4359.6	3888.4
17.5°	3249.1	3251.9	3268.5	3323.0	3459.8	3796.1	*4095.4*	4355.9	4761.5	4557.3	4007.6
20°	3386.8	3405.3	3376.6	3384.9	3458.9	3710.1	*3960.5*	4231.2	4844.6	4755.9	4136.0
22.5°	3692.6	3686.1	3623.3	3586.3	3587.3	3762.8	*3945.7*	4173.0	4899.1	4949.0	4252.4
25°	4039.0	4031.6	3956.8	3874.6	3822.8	3906.0	*4052.0*	4234.9	4948.1	5125.5	4345.7
27.5°	4448.3	4425.2	4342.0	4236.7	4122.2	4158.2	*4257.0*	4402.1	5023.8	5299.1	4407.6
30°	4844.6	4871.4	4752.2	4627.5	4506.5	4484.3	*4541.6*	4672.8	5178.1	5502.4	4481.5
32.5°	5370.3	5361.0	5228.9	5066.3	4893.6	4876.9	*4922.2*	5042.3	5455.3	5783.2	4594.2
35°	6006.8	6008.6	5821.1	5601.2	5355.5	5311.1	*5386.9*	5503.3	5868.2	6163.9	4772.6
37.5°	6668.3	6665.5	6502.0	6252.5	5917.2	5854.4	*5941.2*	6028.0	6384.6	6682.1	5049.7
40°	7132.0	7150.5	7073.8	6942.6	6624.8	6471.5	*6548.2*	6608.2	6946.3	7291.9	5414.6
42.5°	7395.3	7423.0	7439.7	7518.2	7351.0	7187.5	*7159.7*	7191.2	7448.0	7858.2	5757.4
45°	7451.7	7488.6	7609.7	7900.7	7965.3	7919.1	*7828.6*	7752.9	7822.1	8260.0	5981.9
47.5°	7203.2	7267.8	7526.5	8035.5	8413.4	8558.4	*8457.7*	8342.3	8038.3	8363.5	5958.8
50°	6218.4	6294.1	6877.1	7760.2	8477.1	9005.6	*9014.8*	8843.9	8012.5	8065.1	5668.7
52.5°	*4923.1*	*4974.9*	*5308.4*	*6578.7*	*7851.7*	*8987.1*	*9356.6*	*9173.7*	*7887.7*	*7691.9*	*5305.6*
55°	2942.4	3025.6	3336.9	4340.2	6116.7	7965.3	*8752.4*	8841.1	7826.8	7378.7	5058.0
57.5°	993.1	1033.8	1331.3	1917.0	3604.8	5832.2	*6762.5*	7122.8	7105.2	6900.2	4574.8
60°	473.0	482.2	542.3	727.1	1443.0	3047.7	*4003.0*	4418.7	4797.5	4835.4	2846.3
62.5°	360.3	365.8	396.3	436.1	580.2	1284.1	*1834.7*	2152.5	2299.4	1973.3	1036.5
65°	301.2	305.8	328.9	353.8	394.5	556.2	*704.0*	812.1	731.7	570.0	494.3
67.5°	251.3	255.0	272.5	299.3	327.0	372.3	*390.8*	401.9	421.3	473.0	454.5
70°	196.8	200.5	218.9	242.0	268.8	279.9	*297.5*	308.6	347.4	413.9	412.0
72.5°	151.5	156.1	166.3	181.1	203.2	214.3	*233.7*	246.7	268.8	322.4	344.6
75°	110.9	113.6	122.9	127.5	130.3	127.5	*146.9*	161.7	191.2	211.6	217.1
77.5°	45.3	50.8	49.0	49.0	58.2	70.2	*80.4*	89.6	109.9	121.9	122.9
80°	18.5	20.3	24.0	26.8	32.3	41.6	*48.0*	51.7	61.0	68.4	73.9
82.5°	11.1	12.0	13.9	14.8	18.5	24.0	*27.7*	30.5	37.9	45.3	48.0
85°	5.5	5.5	6.5	7.4	9.2	11.1	*12.9*	14.8	19.4	24.0	26.8
87.5°	0.9	0.9	0.9	1.8	2.8	3.7	*4.6*	5.5	6.5	7.4	9.2
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: P634008
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0
2.5°	3482.9	3433.0	3374.8	3328.6	3275.0	3235.3	3178.9	3143.8	3110.6	3082.8	3062.5
5°	3486.6	3402.5	3281.5	3174.3	3063.4	2958.1	2850.0	2762.3	2683.8	2618.2	2612.6
7.5°	3507.8	3386.8	3197.4	3009.9	2793.7	2584.9	2376.1	2206.1	2076.8	2009.3	1995.5
10°	3543.8	3384.9	3111.5	2812.2	2443.6	2107.3	1859.7	1730.3	1655.5	1628.7	1619.5
12.5°	3581.7	3380.3	3001.6	2533.2	2021.4	1726.7	1590.9	1575.1	1589.0	1590.9	1589.9
15°	3627.9	3377.6	2863.0	2206.1	1712.8	1550.2	1559.4	1592.7	1625.0	1632.4	1632.4
17.5°	3684.3	3371.1	2674.5	1886.5	1519.7	1516.0	1565.0	1609.3	1639.8	1645.4	1645.4
20°	3743.4	3354.5	2442.6	1626.0	1441.2	1494.8	1547.4	1581.6	1602.9	1610.3	1611.2
22.5°	3784.0	3310.1	2175.6	1432.9	1392.2	1454.1	1492.0	1527.1	1527.1	1508.6	1503.1
25°	3792.4	3215.0	1886.5	1300.8	1334.0	1391.3	1430.1	1409.8	1371.9	1357.1	1356.2
27.5°	3761.9	3076.4	1601.0	1206.5	1263.8	1321.1	1314.6	1285.1	1268.4	1253.6	1259.2
30°	3724.9	2910.1	1353.4	1128.9	1182.5	1238.9	1216.7	1206.5	1194.5	1177.9	1181.6
32.5°	3700.0	2724.4	1163.1	1068.9	1128.0	1137.2	1153.0	1152.0	1140.9	1109.5	1107.7
35°	3707.4	2536.9	1035.6	1019.9	1082.7	1079.0	1108.6	1103.1	1026.4	983.0	980.2
37.5°	3766.5	2356.7	960.8	981.1	1010.7	1033.8	1059.6	993.1	966.3	938.6	940.5
40°	3879.2	2189.5	920.1	959.9	967.3	1001.4	941.4	940.5	928.5	903.5	902.6
42.5°	4006.7	2048.2	892.4	949.7	939.5	946.0	882.3	889.7	888.7	873.0	868.4
45°	4084.3	1917.9	870.3	911.8	914.6	849.9	830.5	838.8	843.5	835.2	834.2
47.5°	4003.9	1768.2	847.2	853.6	877.6	806.5	782.5	783.4	791.7	792.7	789.0
50°	3778.5	1601.0	819.4	803.7	788.0	761.2	739.1	734.5	742.8	751.1	753.9
52.5°	*3487.5*	*1441.2*	*773.3*	*749.2*	*712.3*	*712.3*	*702.1*	*687.3*	*698.4*	*709.5*	*713.2*
55°	3274.1	1322.9	707.7	680.9	640.2	654.1	652.2	639.3	654.1	662.4	665.2
57.5°	2837.1	1063.3	622.7	614.4	580.2	596.8	600.5	583.9	576.5	578.3	581.1
60°	1684.2	686.4	561.7	560.8	530.3	549.7	560.8	544.1	522.0	524.7	528.4
62.5°	755.7	524.7	485.0	481.3	480.4	505.3	517.3	501.6	470.2	473.0	476.7
65°	475.8	453.6	421.3	421.3	436.1	457.3	466.5	453.6	417.6	413.0	416.7
67.5°	441.6	422.2	388.9	382.5	389.9	407.4	408.3	383.4	362.1	358.4	358.4
70°	396.3	381.5	349.2	336.3	333.5	332.6	329.8	323.3	309.5	305.8	307.6
72.5°	328.0	317.8	297.5	283.6	276.2	275.3	264.2	258.7	246.7	244.8	243.9
75°	217.1	219.9	219.9	218.0	211.6	208.8	196.8	191.2	177.4	171.8	170.9
77.5°	128.4	131.2	134.9	135.8	134.9	134.9	123.8	117.3	103.5	96.1	94.2
80°	78.5	80.4	82.2	85.0	81.3	78.5	68.4	61.9	55.4	50.8	49.9
82.5°	50.8	52.7	53.6	55.4	53.6	49.9	41.6	37.9	33.3	29.6	28.6
85°	28.6	29.6	31.4	31.4	28.6	25.9	21.2	18.5	15.7	13.9	13.9
87.5°	10.2	10.2	10.2	11.1	9.2	8.3	5.5	3.7	2.8	2.8	2.8
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

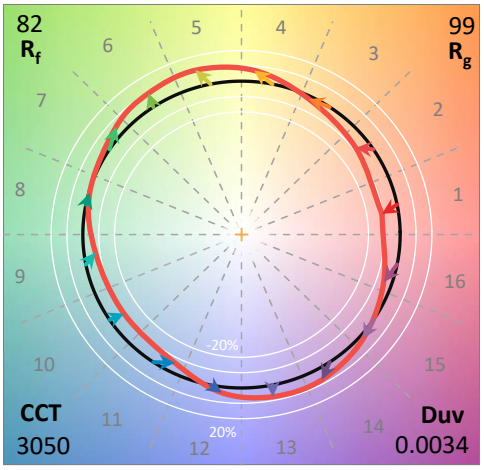
Test Information

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

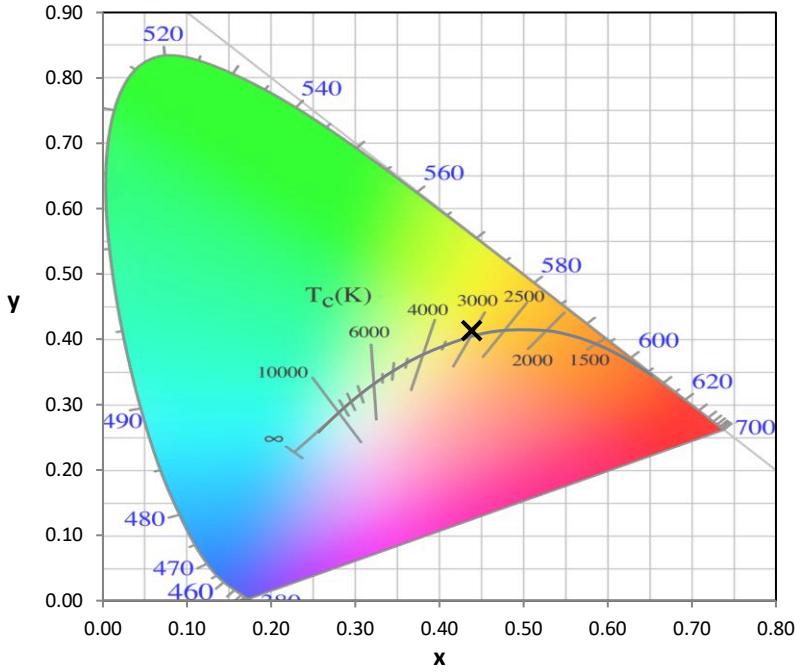
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

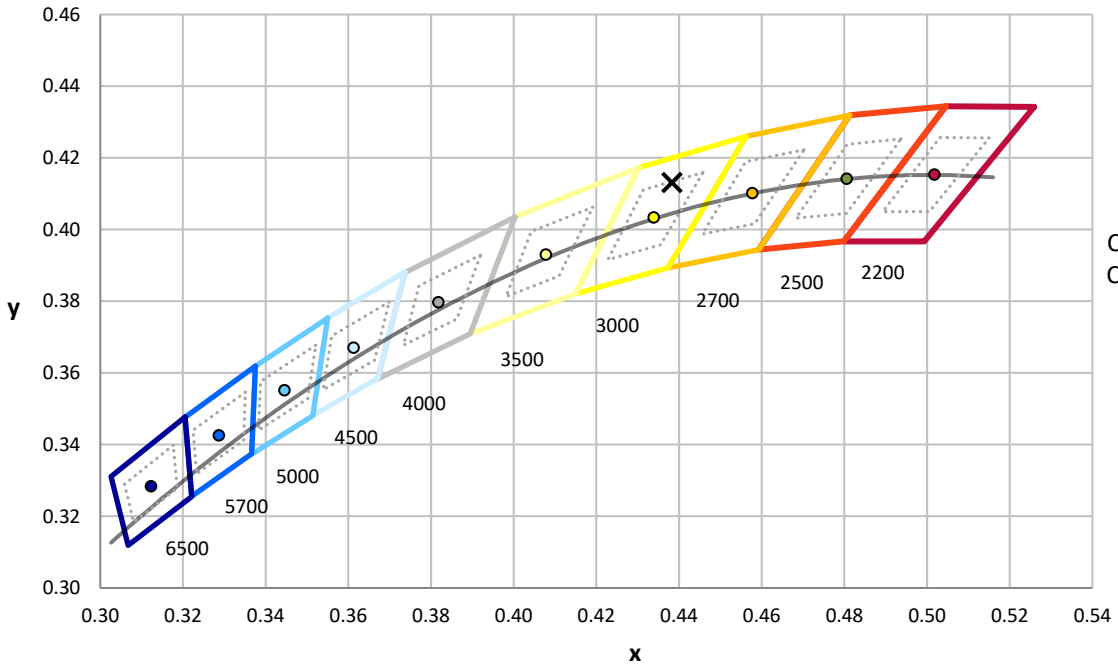
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

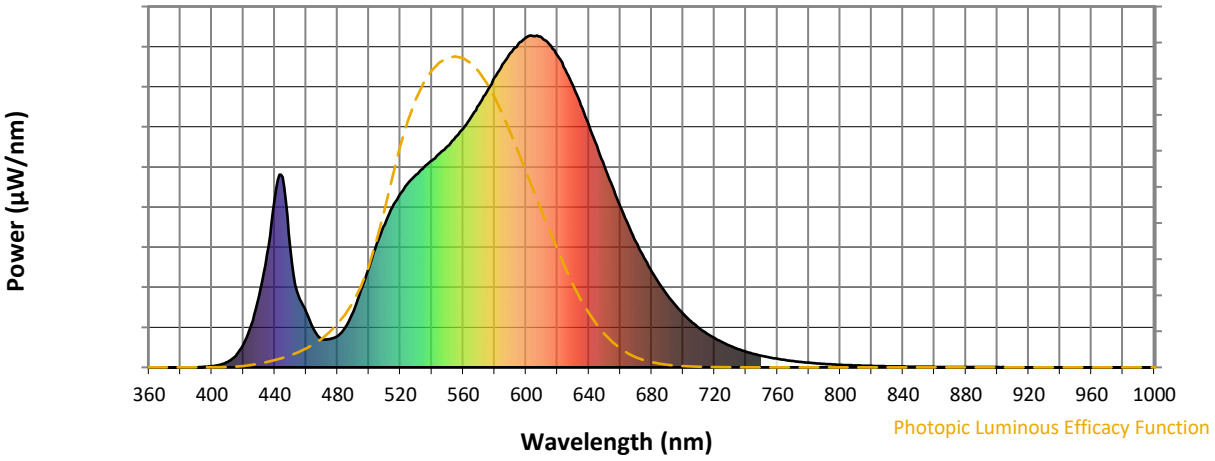


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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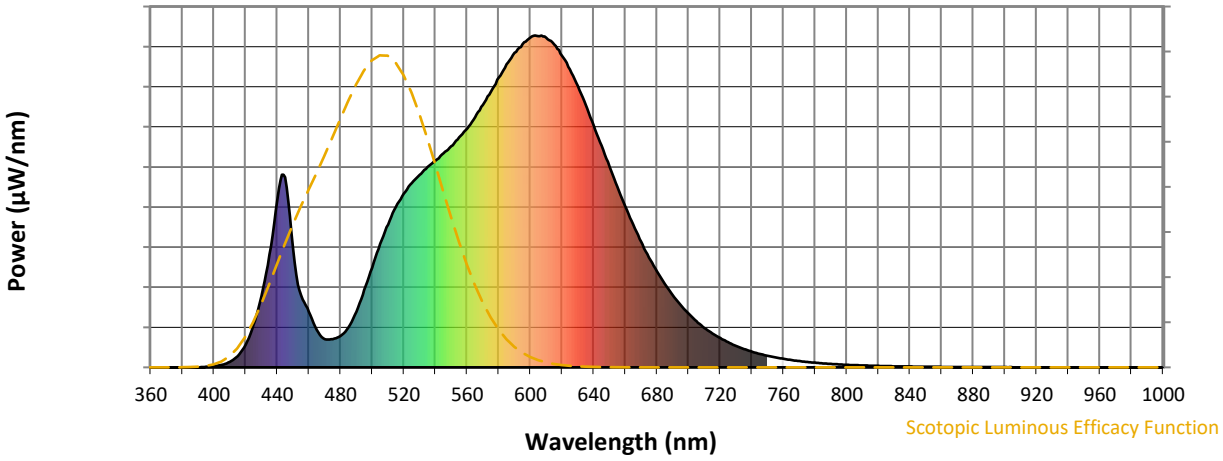
Scotopic Flux vs. Wavelength



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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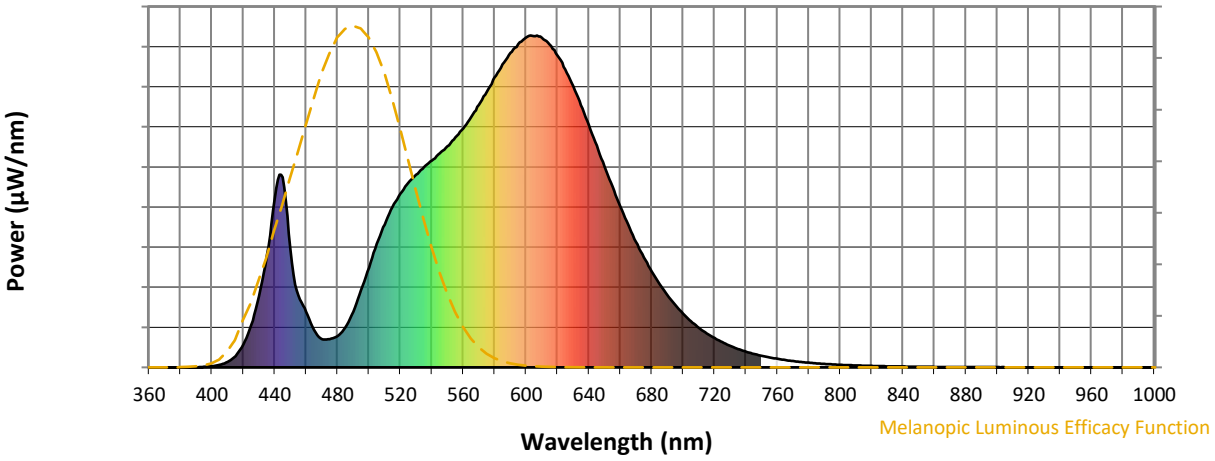
Melanopic Flux vs. Wavelength



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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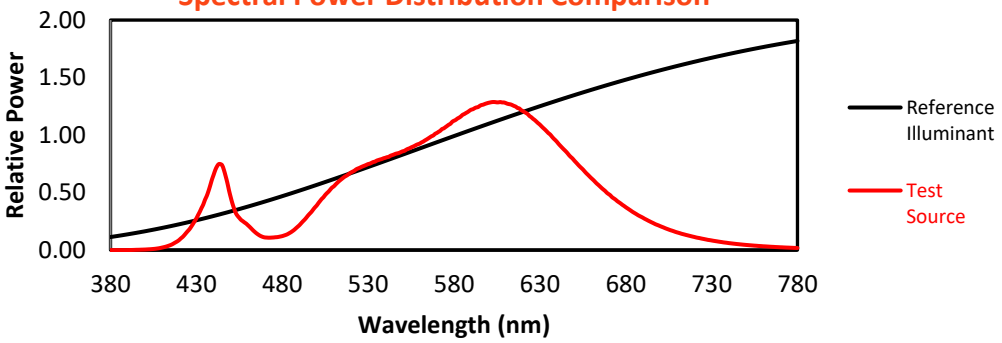
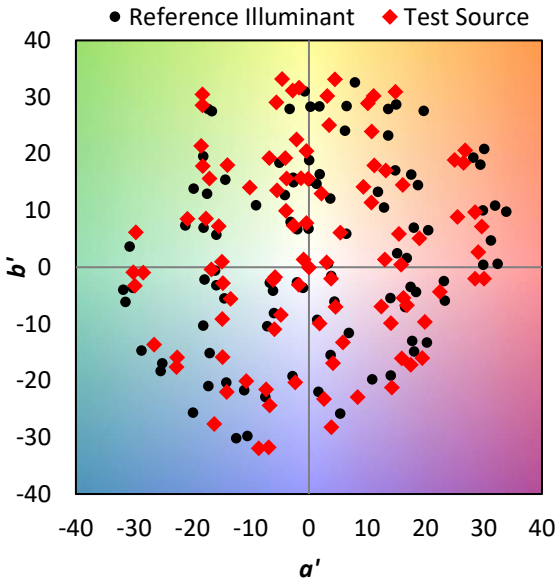
Summary

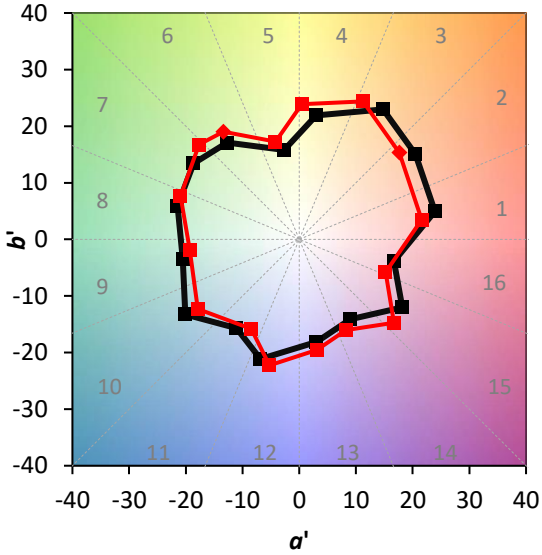
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

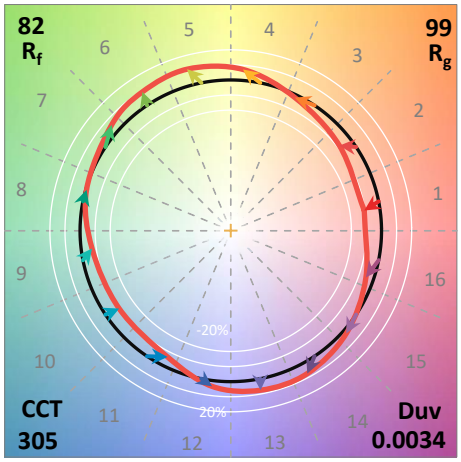
Spectral Power Distribution Comparison

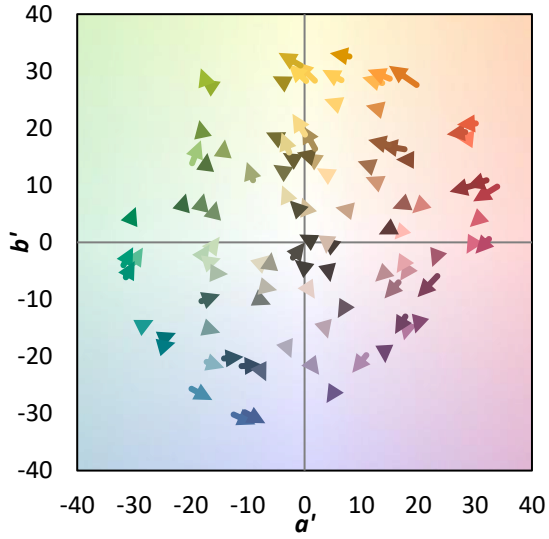


Color Vector Graphics









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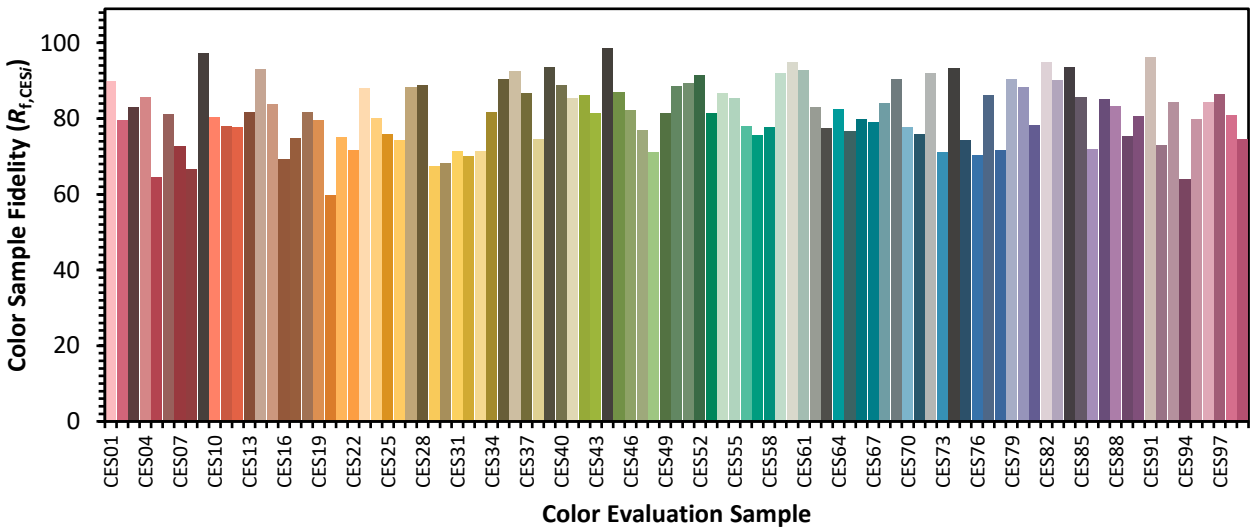
Individual Sample Fidelity Index ($R_{f,i}$)

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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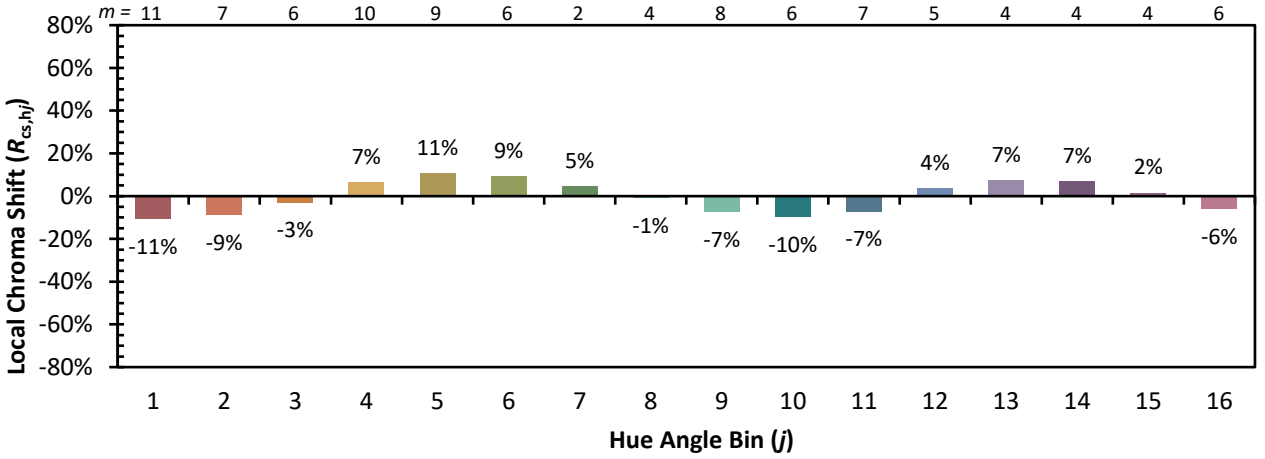
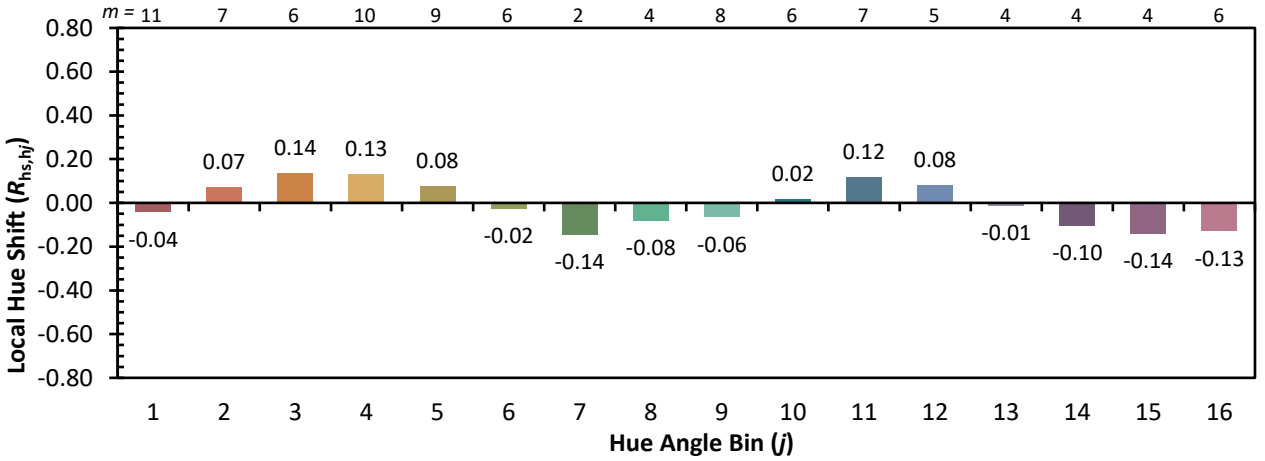
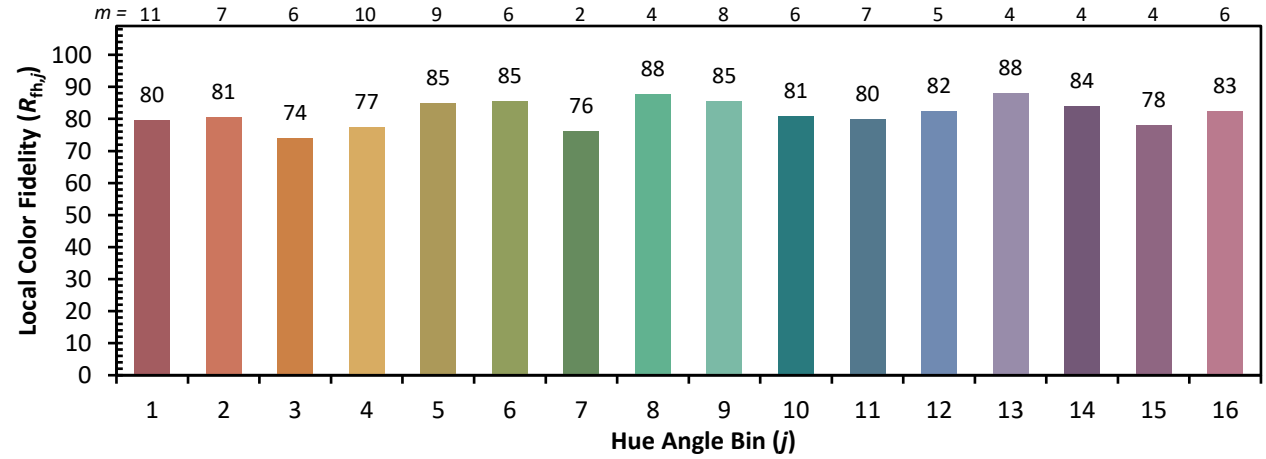
Color Rendition by Hue-Angle Bin







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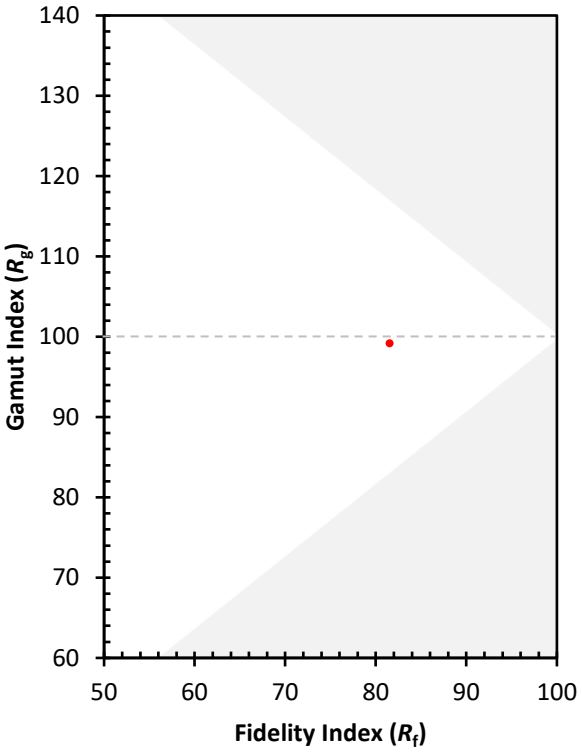
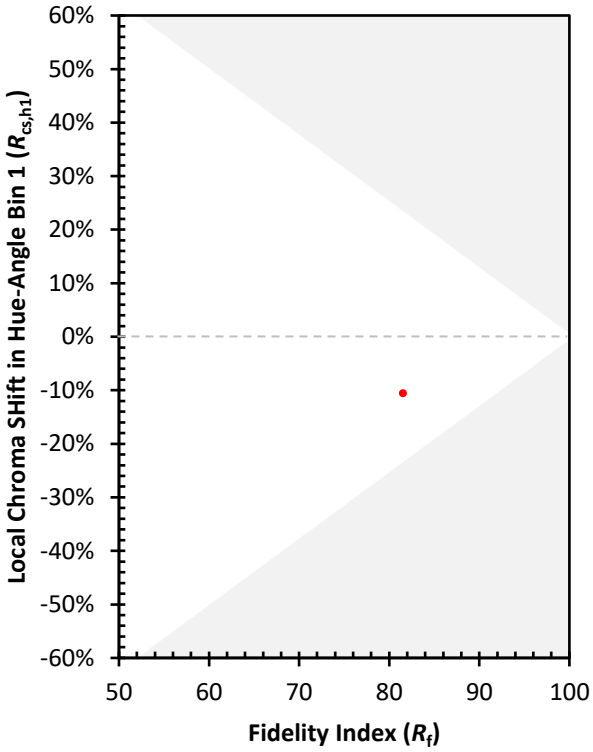
Measure Comparisons





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