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: P635500

Luminaire Tested: GWS-SA3D-830-U-SL2-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:	P635500
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11906.8 lumens
Efficiency:	N/A
Efficacy:	98.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	120.8
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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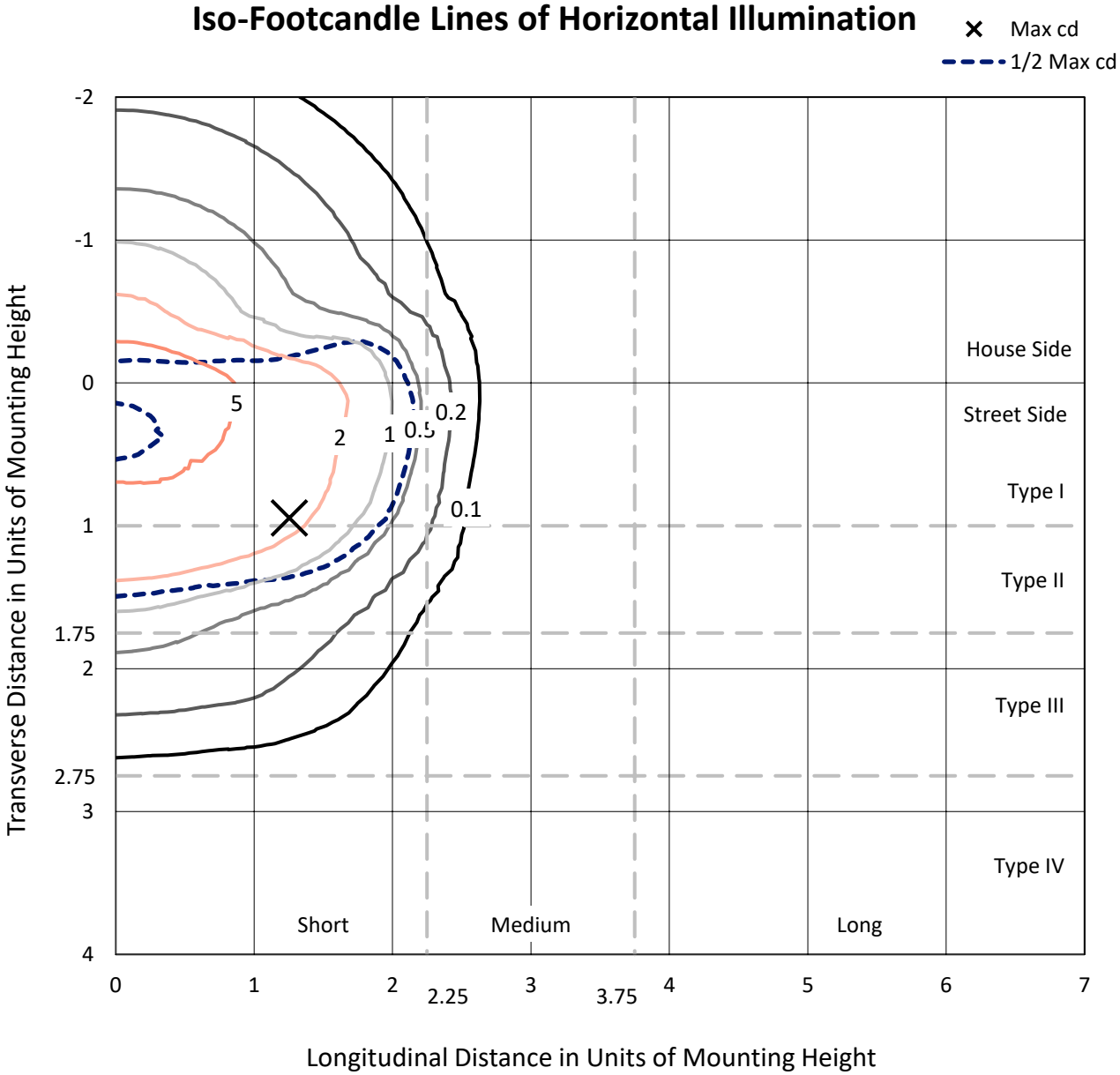
Scaled Data Report

REPORT NUMBER: P635500
CATALOG NUMBER: GWS-SA3D-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Short - N/A

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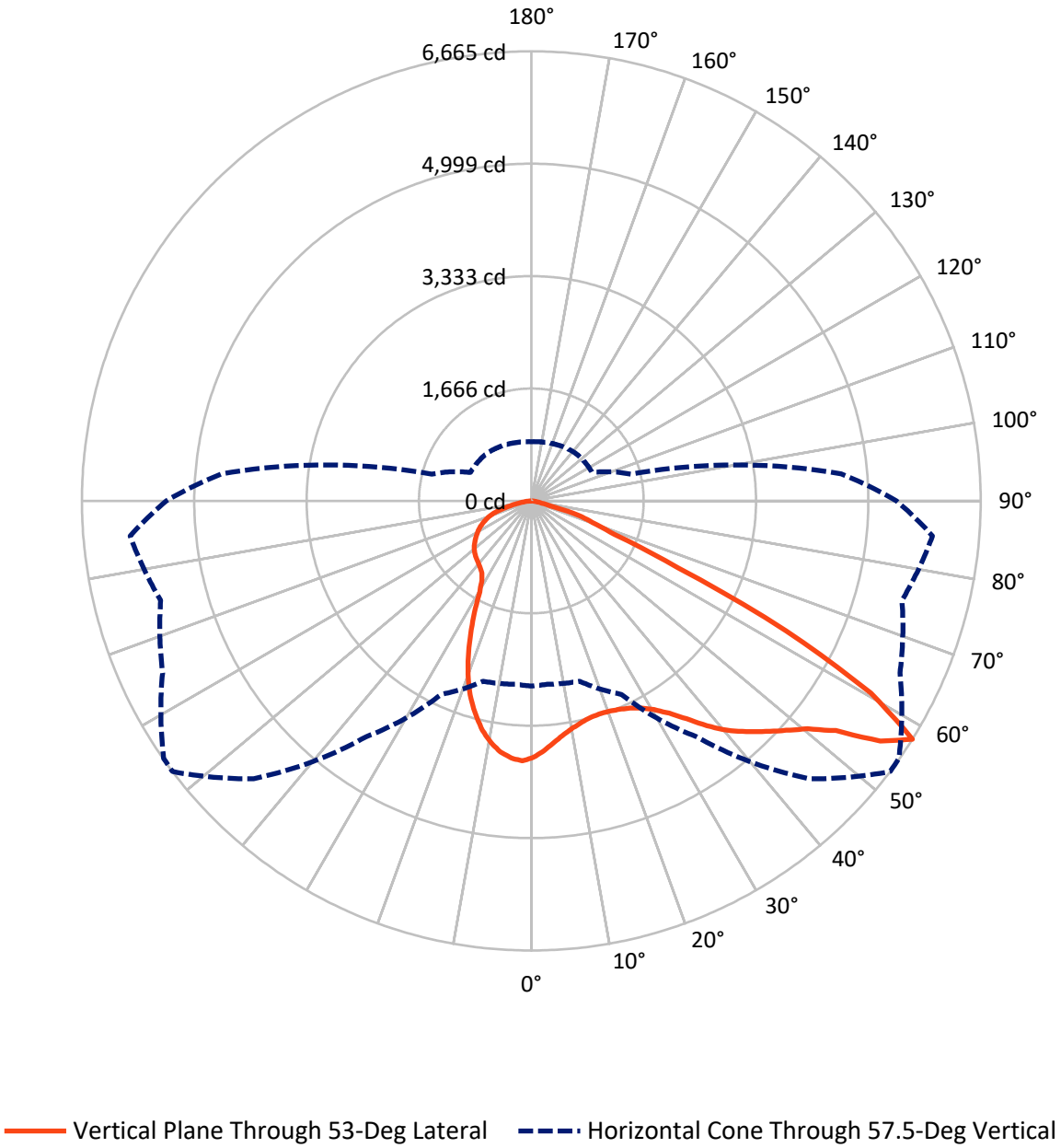
Luminous Intensity Polar Plot



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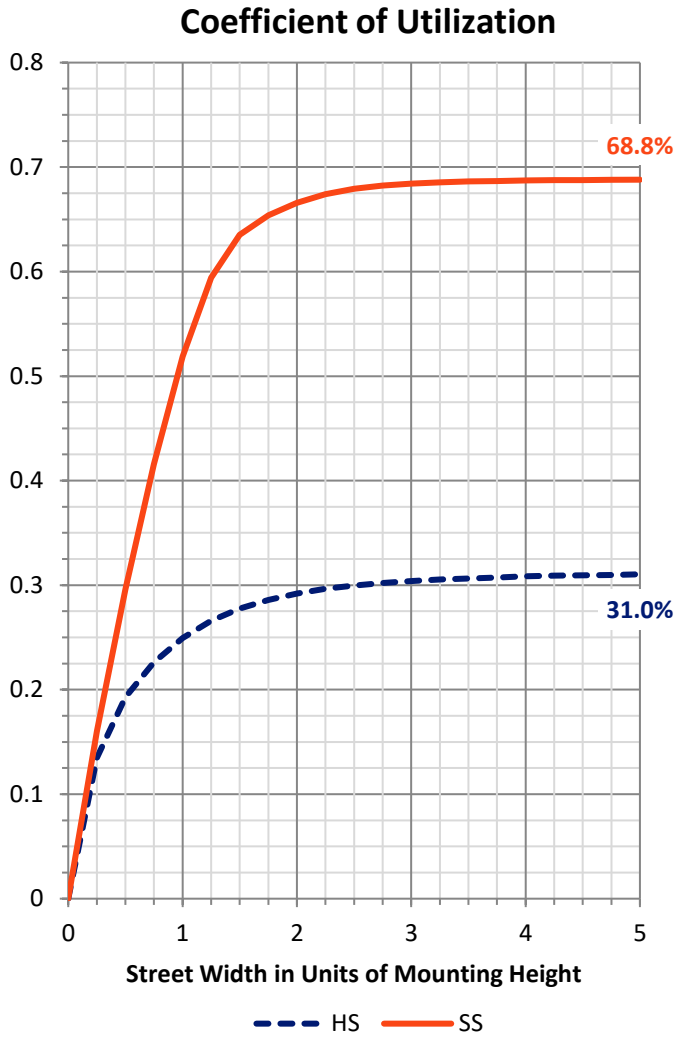
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3722.8	0.0	3722.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8184.0	0.0	8184.0
	% Fixture	68.7	0.0	68.7
Total	Lumens	11906.8	0.0	11906.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	2.9
10°-20°	902.0	7.6
20°-30°	1329.0	11.2
30°-40°	1860.3	15.6
40°-50°	2445.5	20.5
50°-60°	2867.4	24.1
60°-70°	1689.2	14.2
70°-80°	420.2	3.5
80°-90°	49.3	0.4
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°	11906.8	100.0
0°-180°	11906.8	100.0



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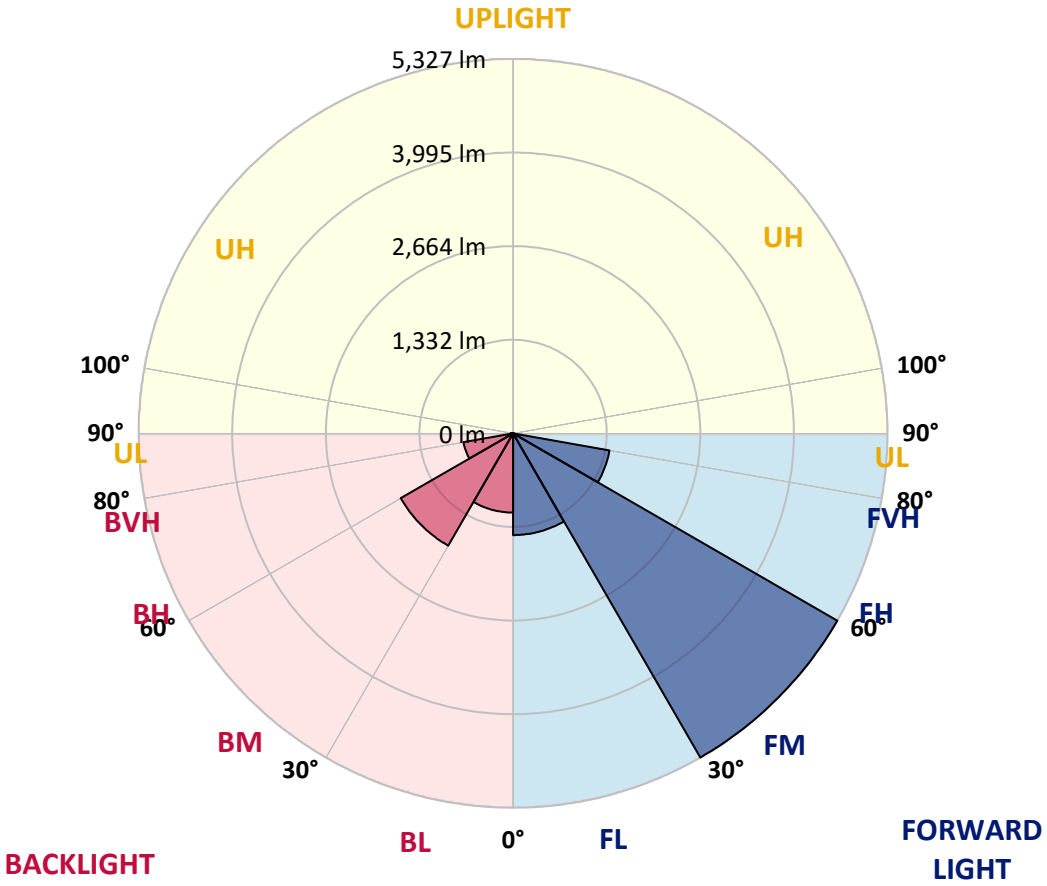
REPORT NUMBER: P635500
CATALOG NUMBER: GWS-SA3D-830-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1447.6	12.2			
FM	(30°-60°)	5327.2	44.7			
FH	(60°-80°)	1392.6	11.7			G1/1800
FVH	(80°-90°)	16.5	0.1			G1/100
BL	(0°-30°)	1127.3	9.5	B3/2500		
BM	(30°-60°)	1846.0	15.5	B2/2500		
BH	(60°-80°)	716.8	6.0	B2/1000		G2/1000
BVH	(80°-90°)	32.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P635500
CATALOG NUMBER: GWS-SA3D-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2
2.5°	3583.7	3593.7	3595.7	3626.8	3628.8	3673.9	3704.0	3697.9	3729.0	3767.1	3797.2
5°	3412.3	3413.3	3423.3	3460.4	3480.5	3539.6	3589.7	3589.7	3649.8	3728.0	3795.1
7.5°	3271.0	3270.0	3279.0	3320.1	3353.2	3424.4	3492.5	3500.5	3584.7	3698.9	3808.2
10°	3139.7	3146.8	3156.8	3206.9	3249.0	3337.2	3418.3	3431.4	3537.6	3678.9	3826.2
12.5°	3055.6	3056.6	3071.6	3127.7	3181.8	3276.0	3361.2	3377.3	3499.5	3659.9	3839.2
15°	3001.4	3002.4	3018.5	3080.6	3143.7	3239.0	3326.1	3344.2	3477.5	3656.9	3864.3
17.5°	2977.4	2976.4	2991.4	3053.6	3122.7	3221.9	3315.1	3337.2	3487.5	3679.9	3908.4
20°	2977.4	2978.4	2986.4	3042.5	3112.7	3217.9	3326.1	3353.2	3526.6	3732.0	3976.5
22.5°	3019.5	3023.5	3027.5	3065.6	3120.7	3223.9	3355.2	3391.3	3610.8	3819.2	4065.7
25°	3101.7	3102.7	3106.7	3137.7	3162.8	3241.0	3403.3	3457.4	3742.0	3946.5	4178.0
27.5°	3211.9	3225.9	3229.9	3250.0	3250.0	3283.0	3478.5	3556.6	3919.4	4129.9	4321.3
30°	3366.2	3371.2	3378.3	3400.3	3376.2	3362.2	3588.7	3688.9	4124.9	4351.3	4493.6
32.5°	3501.5	3512.5	3550.6	3586.7	3543.6	3499.5	3751.1	3869.3	4322.3	4581.8	4677.0
35°	3616.8	3643.8	3717.0	3797.2	3767.1	3723.0	3966.5	4089.8	4484.6	4747.2	4839.4
37.5°	3756.1	3777.1	3877.3	4007.6	4034.7	4013.6	4229.1	4317.3	4592.9	4789.3	4927.6
40°	3897.4	3929.4	4058.7	4239.1	4342.3	4357.4	4471.6	4530.7	4629.9	4707.1	4910.5
42.5°	4041.7	4096.8	4274.2	4484.6	4668.0	4702.1	4676.0	4701.1	4617.9	4593.9	4831.4
45°	4218.1	4283.2	4483.6	4752.2	4993.7	5046.8	4876.5	4853.4	4615.9	4550.8	4782.3
47.5°	4426.5	4491.6	4683.1	4995.7	5304.4	5343.5	5081.9	5039.8	4686.1	4616.9	4848.4
50°	4610.9	4656.0	4827.4	5177.1	5594.0	5617.1	5308.4	5257.3	4860.4	4800.3	5054.9
52.5°	4423.5	4418.5	4598.9	5029.8	5744.3	6021.9	5657.1	5608.0	5197.2	5105.0	5374.5
55°	3753.1	3695.9	3857.3	4281.2	5324.4	6381.7	6282.5	6184.3	5646.1	5411.6	5674.2
57.5°	2743.9	2727.9	2766.9	3164.8	4265.2	5824.5	6665.3	6656.3	6034.0	5692.2	5972.8
60°	2145.6	2121.6	2017.3	2028.4	2907.2	4549.8	5784.4	6050.0	6274.5	5860.6	6181.3
62.5°	1905.1	1887.1	1832.9	1683.6	1731.7	3050.5	4240.1	4483.6	5482.8	5176.1	5309.4
65°	1577.4	1572.4	1617.5	1611.5	1451.1	1684.6	2393.1	2638.7	3447.4	3490.5	3447.4
67.5°	1146.5	1137.4	1251.7	1477.2	1397.0	1271.7	1333.9	1419.0	1767.8	1587.4	1429.1
70°	745.6	732.6	798.7	1067.3	1250.7	1108.4	961.1	947.0	972.1	604.3	653.4
72.5°	500.1	485.0	484.0	587.3	755.6	746.6	744.6	737.6	658.4	477.0	529.1
75°	278.6	266.6	263.6	253.5	270.6	275.6	293.6	303.7	328.7	361.8	400.9
77.5°	47.1	46.1	58.1	74.2	102.2	131.3	162.3	171.4	211.5	250.5	275.6
80°	26.1	27.1	35.1	43.1	57.1	78.2	100.2	106.2	130.3	151.3	171.4
82.5°	14.0	14.0	18.0	23.0	31.1	41.1	54.1	59.1	75.2	88.2	102.2
85°	5.0	5.0	7.0	9.0	13.0	17.0	21.0	24.1	33.1	45.1	51.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.0	4.0	5.0	9.0	13.0
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: P635500
CATALOG NUMBER: GWS-SA3D-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2	3802.2
2.5°	3822.2	3795.1	3832.2	3849.3	3855.3	3859.3	3833.2	3815.2	3809.2	3790.1	3779.1
5°	3836.2	3818.2	3853.3	3853.3	3828.2	3802.2	3749.0	3712.0	3685.9	3654.8	3649.8
7.5°	3860.3	3847.3	3866.3	3827.2	3764.1	3693.9	3601.7	3529.6	3471.5	3433.4	3434.4
10°	3892.4	3876.3	3861.3	3774.1	3658.9	3529.6	3388.3	3283.0	3186.8	3142.7	3118.7
12.5°	3913.4	3890.4	3827.2	3682.9	3513.5	3340.2	3140.7	2984.4	2845.1	2782.0	2777.0
15°	3939.5	3897.4	3771.1	3564.7	3329.1	3092.6	2836.1	2618.6	2430.2	2332.0	2327.0
17.5°	3973.5	3904.4	3704.0	3429.4	3134.7	2786.0	2463.3	2189.7	1989.3	1913.1	1926.1
20°	4021.6	3912.4	3627.8	3279.0	2893.2	2437.2	2035.4	1783.8	1706.7	1701.7	1691.6
22.5°	4075.8	3917.4	3543.6	3110.7	2600.6	2065.4	1681.6	1574.4	1573.4	1598.4	1604.4
25°	4136.9	3921.4	3448.4	2914.3	2283.9	1694.6	1487.2	1455.1	1480.2	1527.3	1533.3
27.5°	4215.0	3929.4	3333.2	2698.8	1947.2	1464.1	1380.0	1371.9	1402.0	1446.1	1444.1
30°	4330.3	3958.5	3210.9	2451.3	1601.4	1354.9	1314.8	1315.8	1327.9	1348.9	1351.9
32.5°	4447.5	4003.6	3091.6	2172.7	1403.0	1292.8	1274.7	1272.7	1272.7	1281.8	1283.8
35°	4558.8	4054.7	2962.4	1882.0	1306.8	1256.7	1244.7	1238.7	1235.7	1233.6	1230.6
37.5°	4620.9	4079.8	2836.1	1595.4	1255.7	1232.6	1220.6	1212.6	1201.6	1193.6	1191.6
40°	4593.9	4050.7	2689.8	1381.0	1224.6	1209.6	1195.6	1184.5	1169.5	1162.5	1158.5
42.5°	4503.7	3960.5	2530.4	1279.7	1199.6	1184.5	1167.5	1149.5	1139.4	1133.4	1132.4
45°	4408.5	3851.3	2338.0	1220.6	1175.5	1157.5	1137.4	1117.4	1106.4	1103.4	1102.4
47.5°	4405.5	3797.2	2133.6	1173.5	1146.5	1128.4	1103.4	1083.3	1071.3	1067.3	1063.3
50°	4537.7	3852.3	1903.1	1132.4	1116.4	1097.4	1069.3	1047.2	1032.2	1027.2	1026.2
52.5°	4812.3	4059.7	1696.6	1091.3	1076.3	1054.3	1031.2	1009.2	991.1	982.1	981.1
55°	5109.0	4323.3	1568.4	1049.3	1029.2	1010.2	989.1	965.1	945.0	931.0	929.0
57.5°	*5415.6*	*4610.9*	*1529.3*	*996.1*	*981.1*	*968.1*	*943.0*	*917.0*	*893.9*	*880.9*	*877.9*
60°	5668.2	4858.4	1602.4	940.0	932.0	915.0	891.9	866.9	850.8	840.8	838.8
62.5°	4745.2	3955.5	1293.8	878.9	878.9	860.8	834.8	816.8	805.7	798.7	796.7
65°	3011.5	2449.3	882.9	817.8	816.8	792.7	770.7	758.6	753.6	742.6	740.6
67.5°	1311.8	1119.4	754.6	755.6	751.6	725.6	703.5	694.5	684.5	672.4	671.4
70°	680.5	693.5	675.5	686.5	679.5	648.4	627.3	613.3	592.3	580.2	581.2
72.5°	549.2	563.2	583.3	600.3	585.3	560.2	527.1	510.1	483.0	470.0	471.0
75°	418.9	433.9	453.0	471.0	459.0	427.9	406.9	389.8	358.8	343.7	346.7
77.5°	288.6	296.6	319.7	318.7	314.7	305.7	274.6	254.5	222.5	204.4	206.4
80°	179.4	184.4	195.4	200.4	198.4	186.4	161.3	146.3	127.3	116.2	117.3
82.5°	108.2	111.2	121.3	122.3	121.3	112.2	93.2	82.2	70.2	64.1	64.1
85°	55.1	57.1	63.1	63.1	57.1	48.1	43.1	38.1	31.1	28.1	28.1
87.5°	15.0	15.0	19.0	16.0	13.0	12.0	6.0	5.0	2.0	1.0	1.0
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

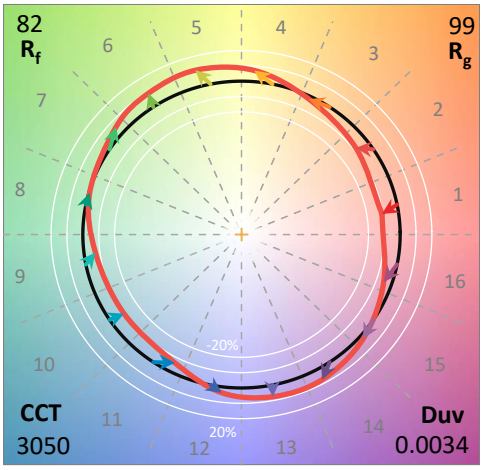
Test Information

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

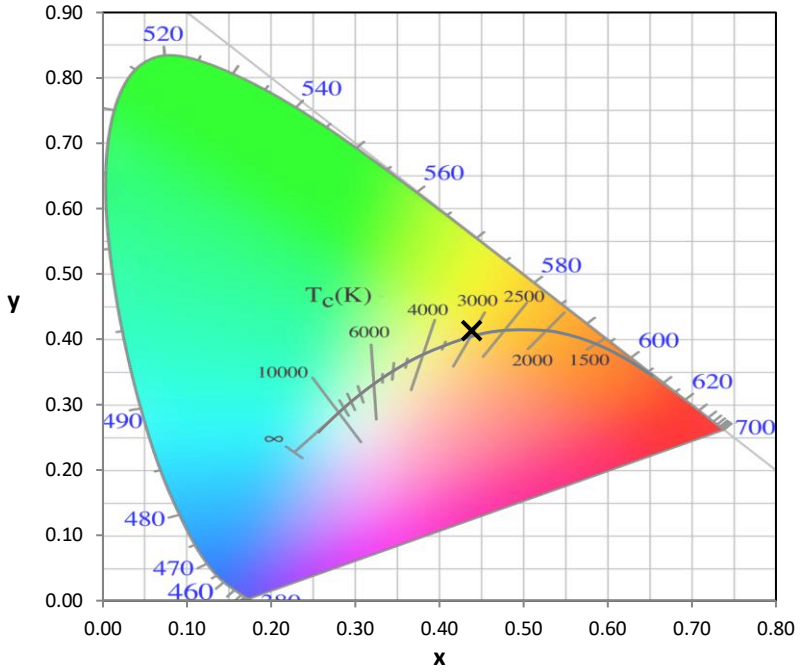
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

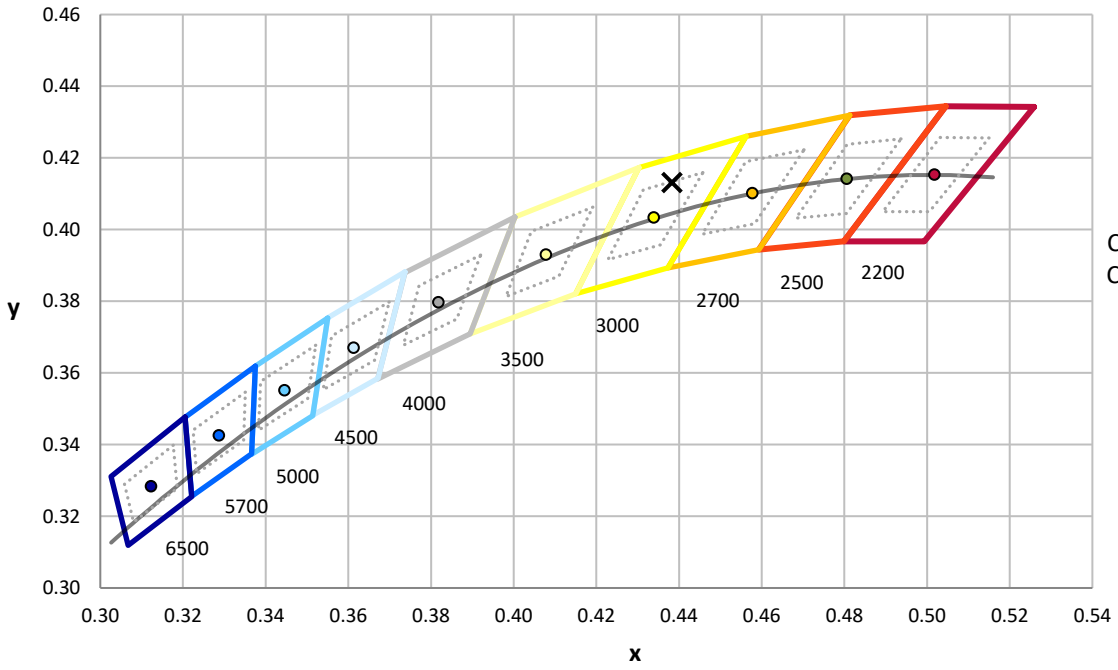
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

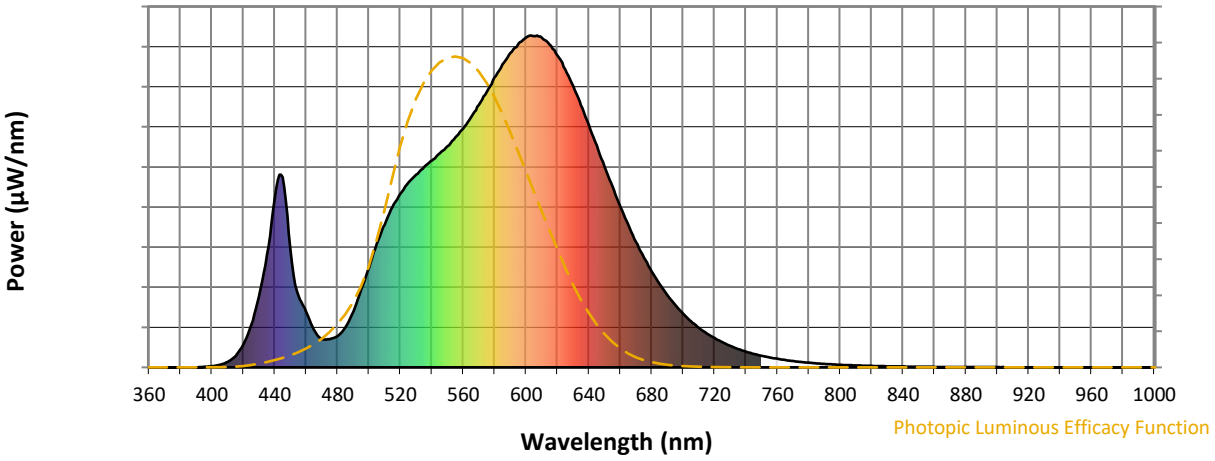


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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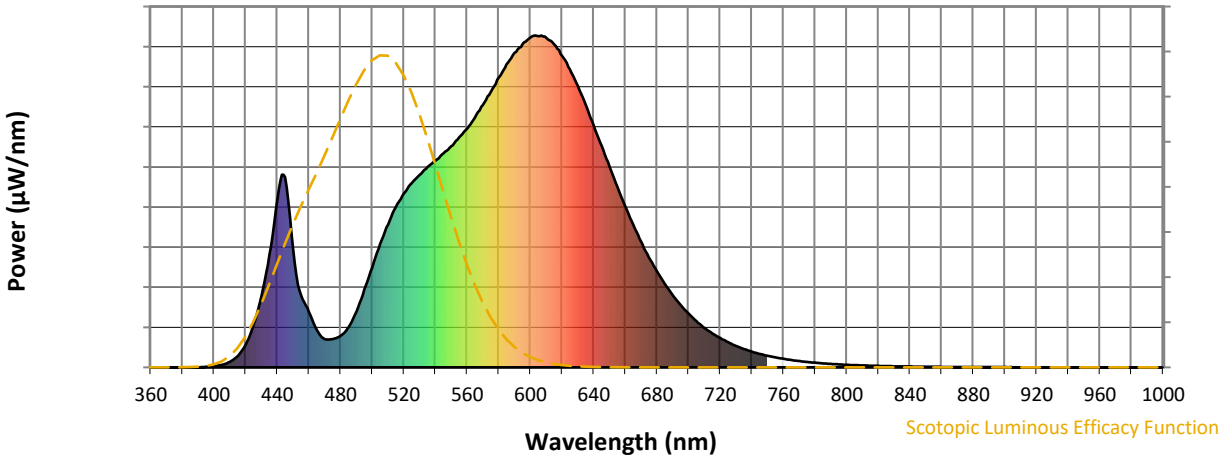
Scotopic Flux vs. Wavelength



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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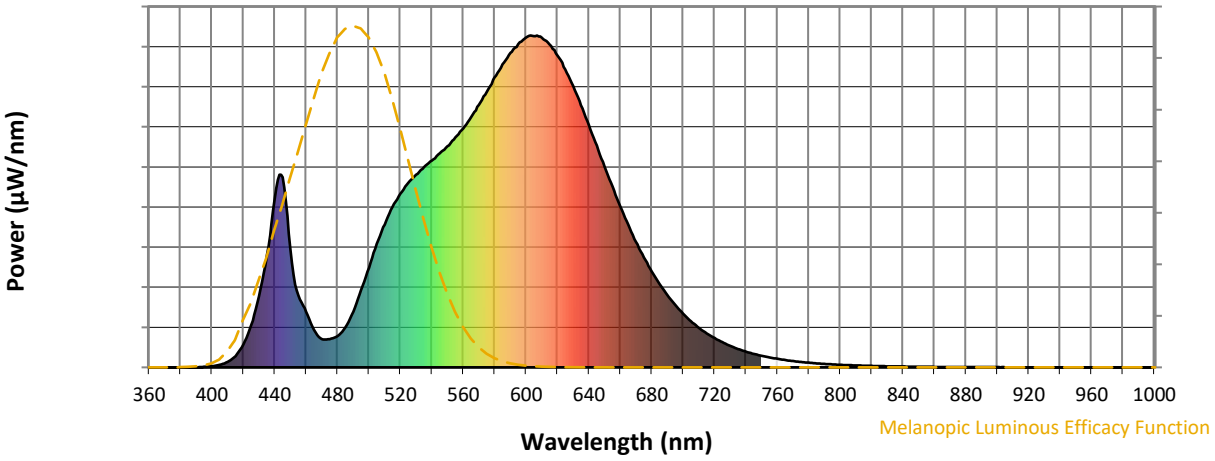
Melanopic Flux vs. Wavelength



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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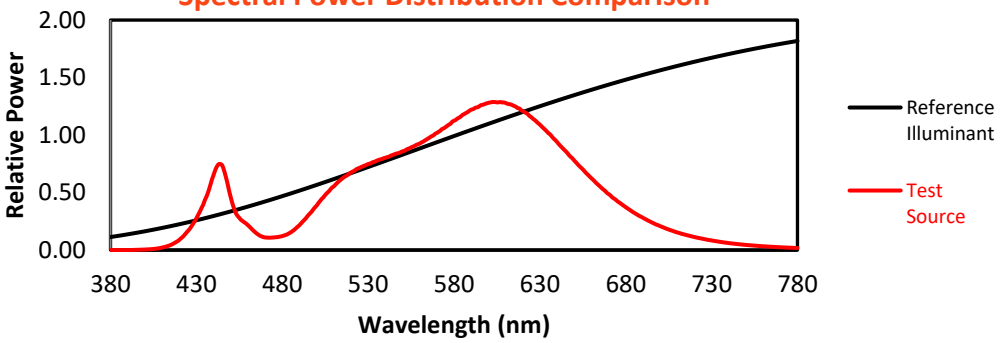
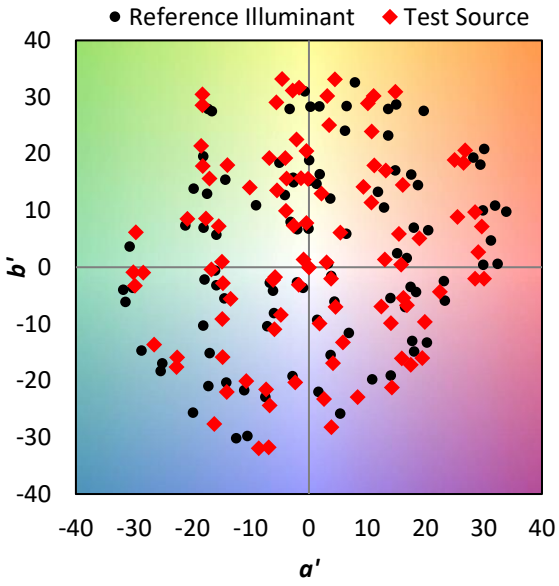
Summary

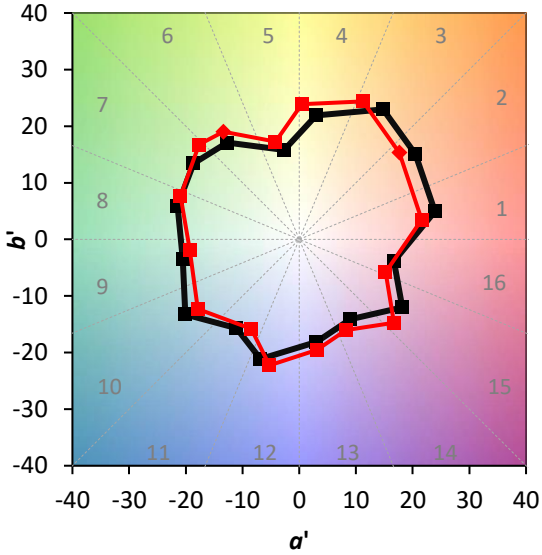
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

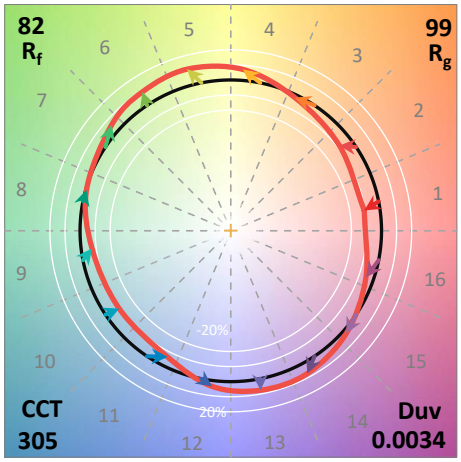
Spectral Power Distribution Comparison

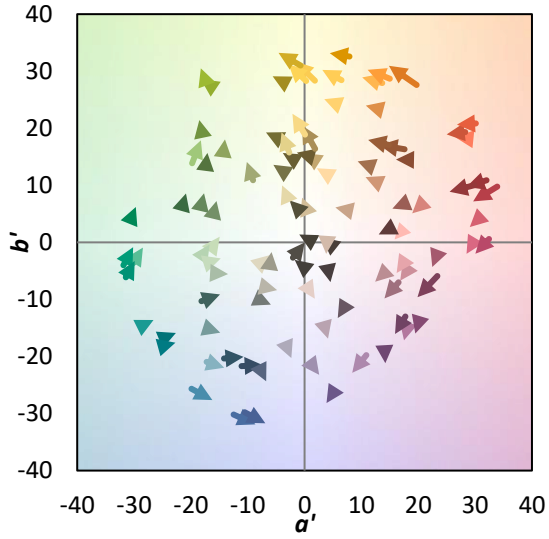


Color Vector Graphics









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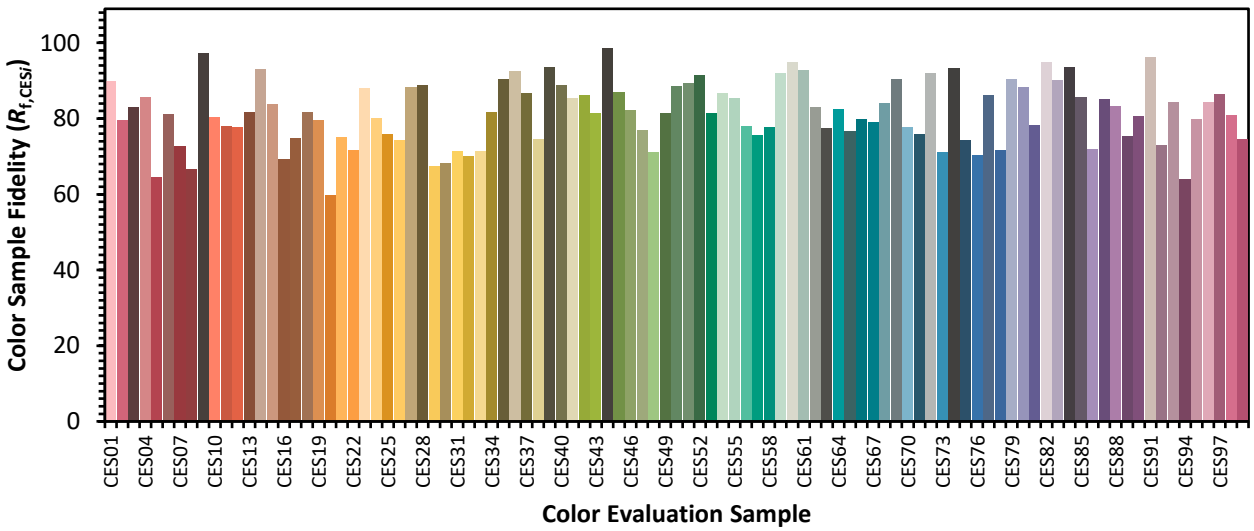
Individual Sample Fidelity Index ($R_{f,i}$)

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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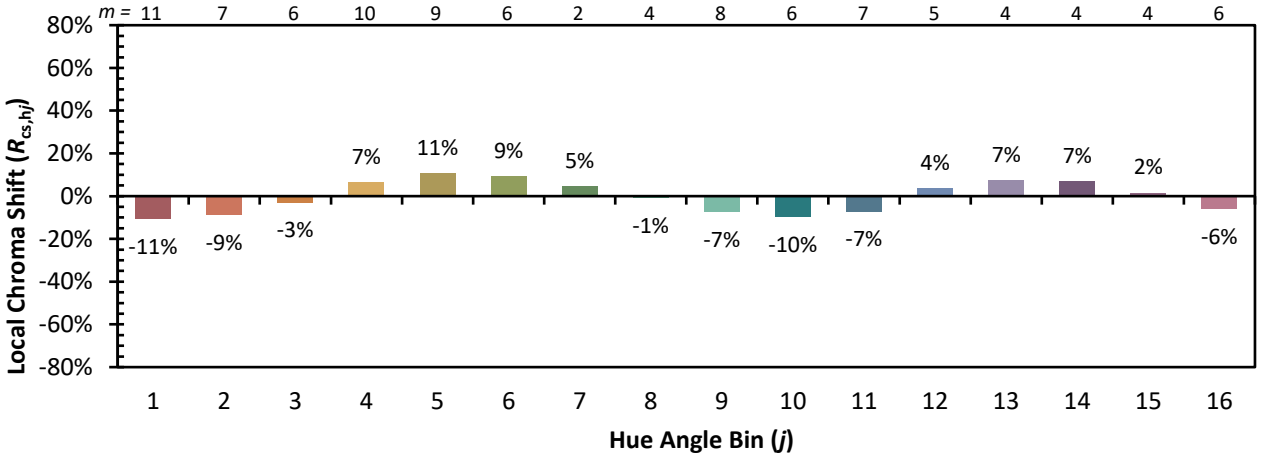
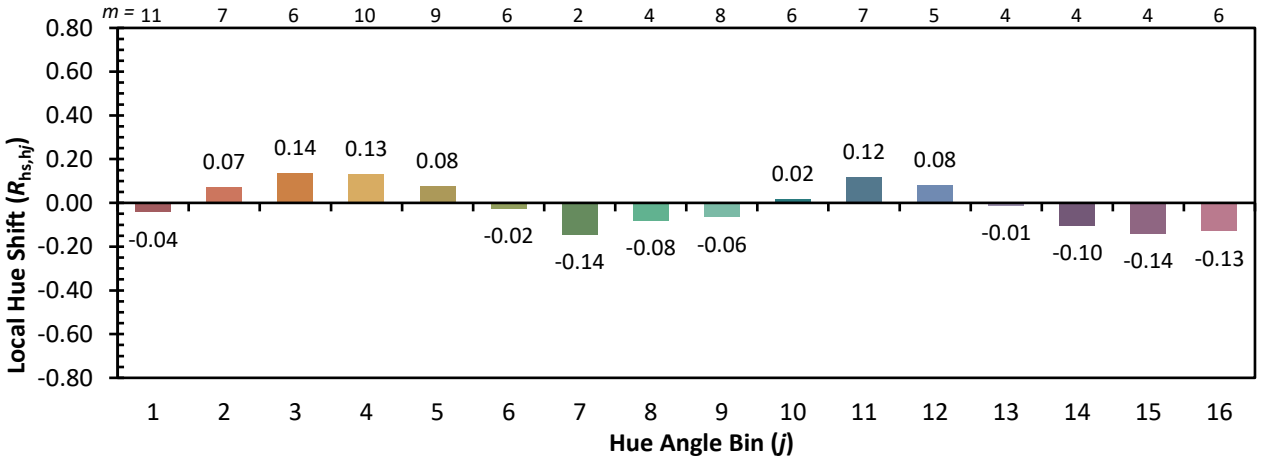
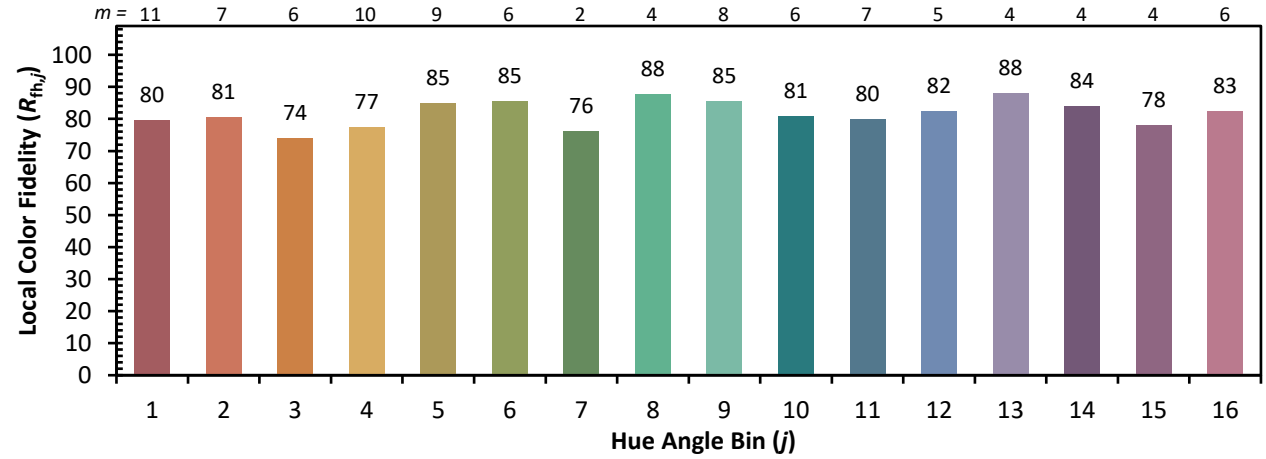
Color Rendition by Hue-Angle Bin







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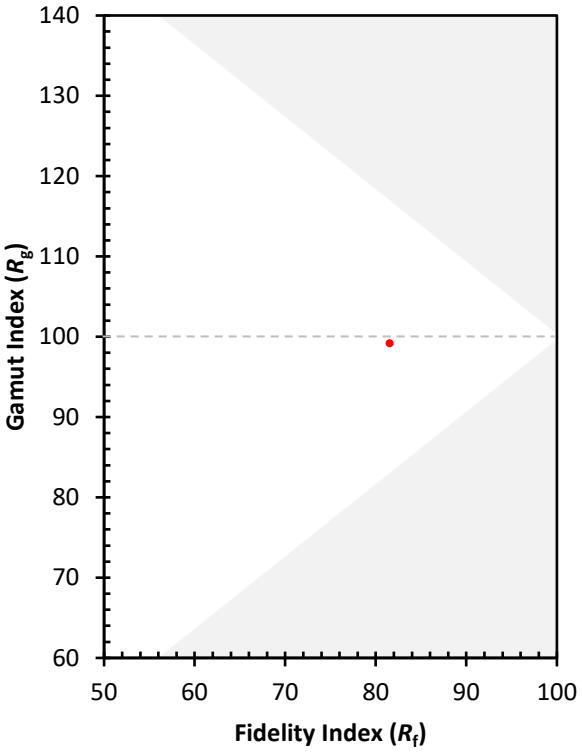
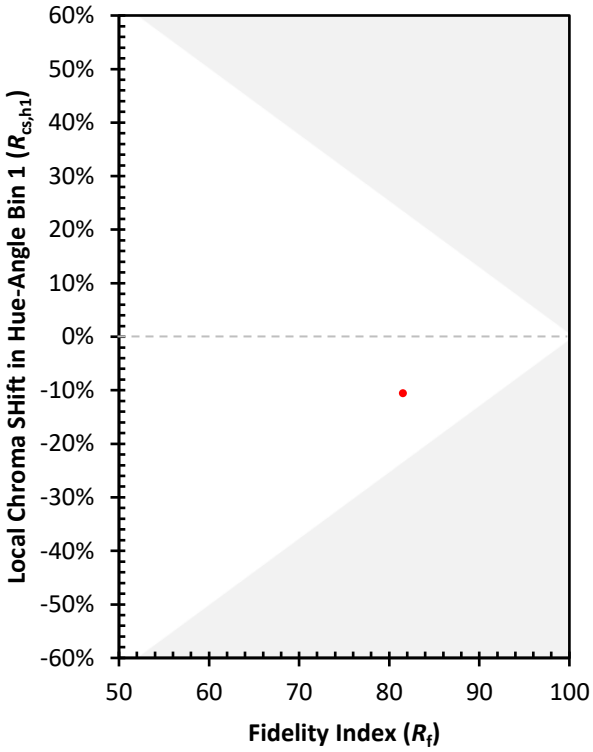
Measure Comparisons





(END OF REPORT)