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: P635994

Luminaire Tested: GWS-SA3E-830-U-SL2-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:	P635994
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3E-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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:	10258.1 lumens
Efficiency:	N/A
Efficacy:	64.4 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):	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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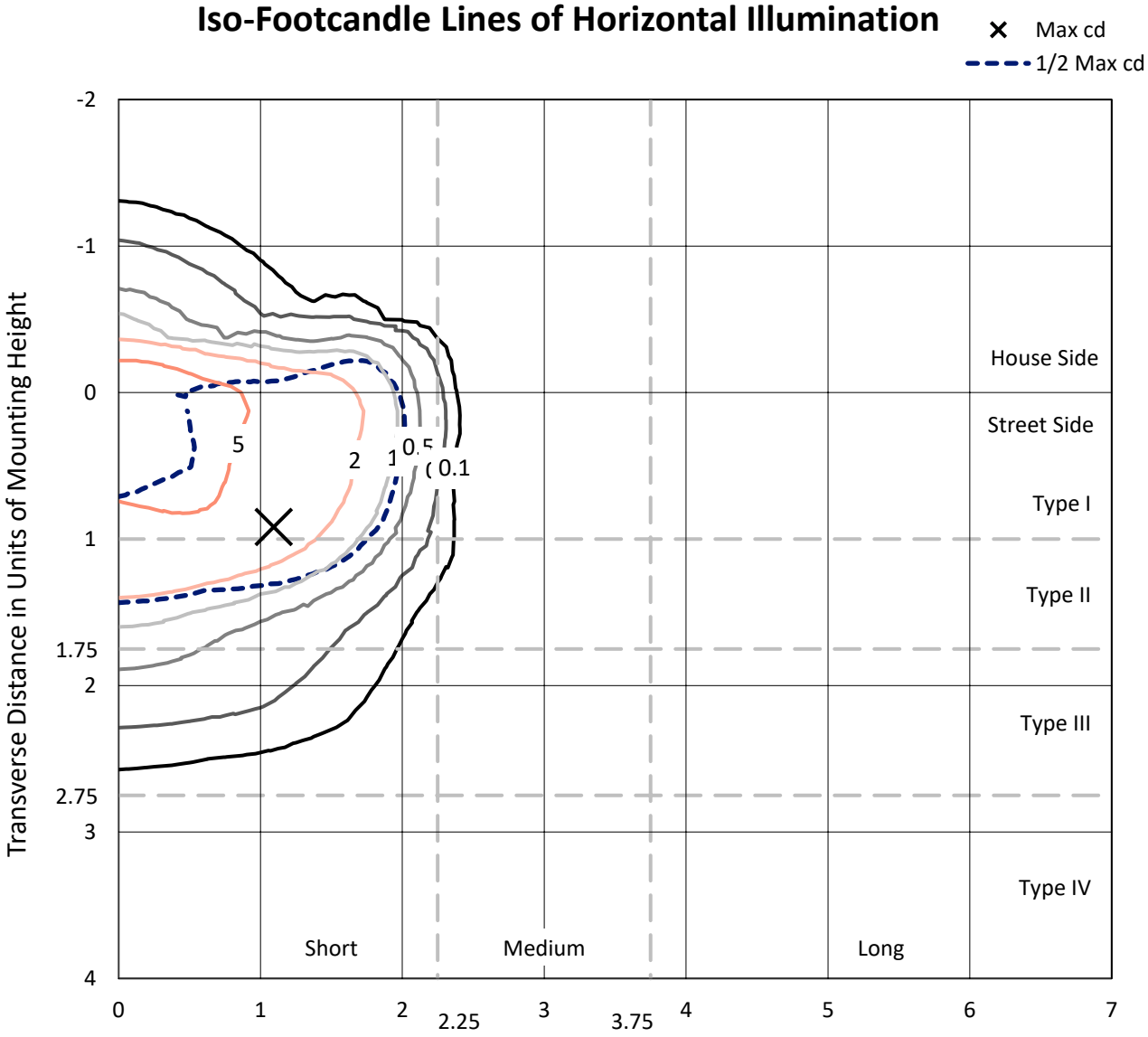
REPORT NUMBER: P635994
CATALOG NUMBER: GWS-SA3E-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9 fc
Type II - Short - N/A

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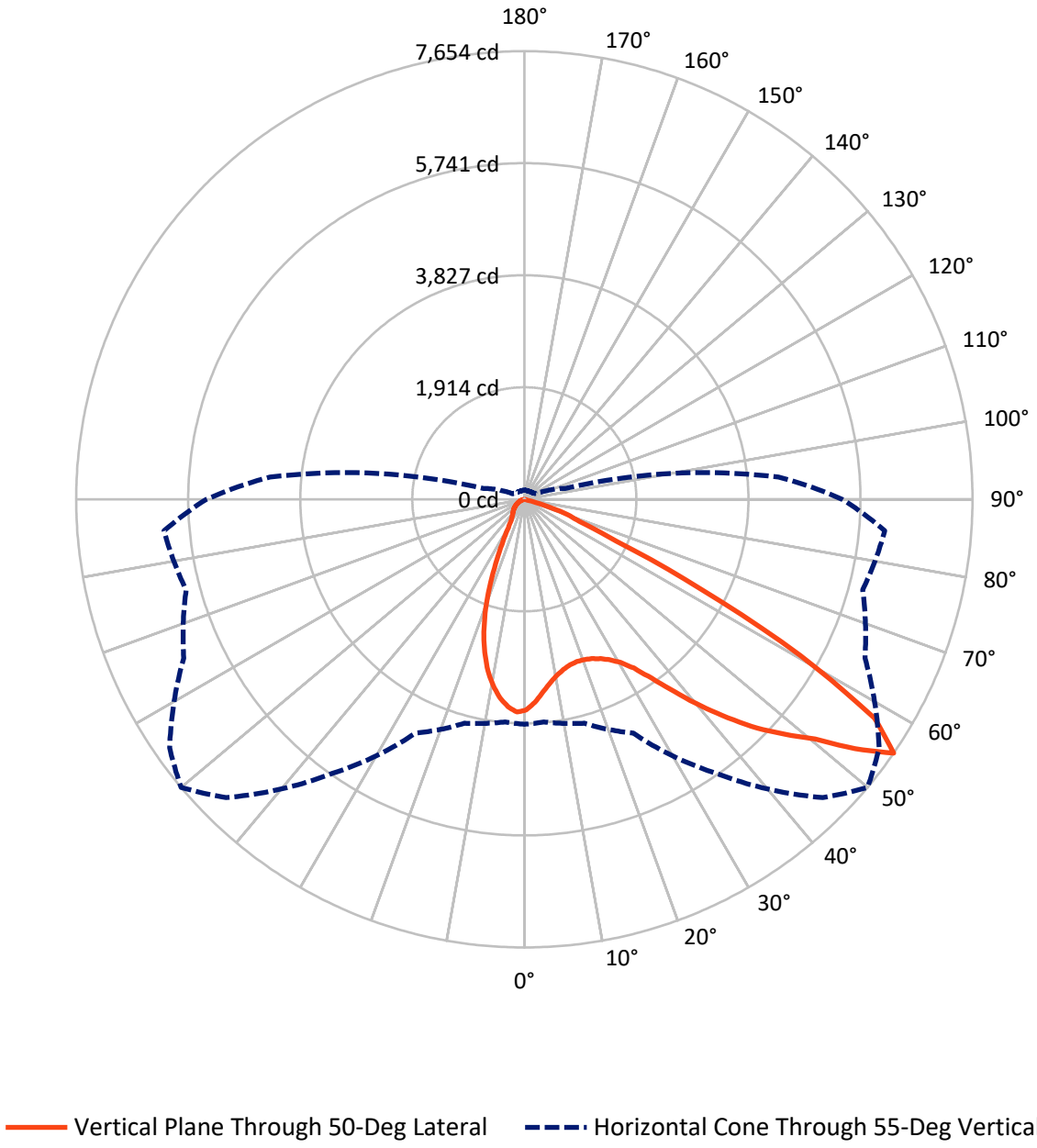
Luminous Intensity Polar Plot



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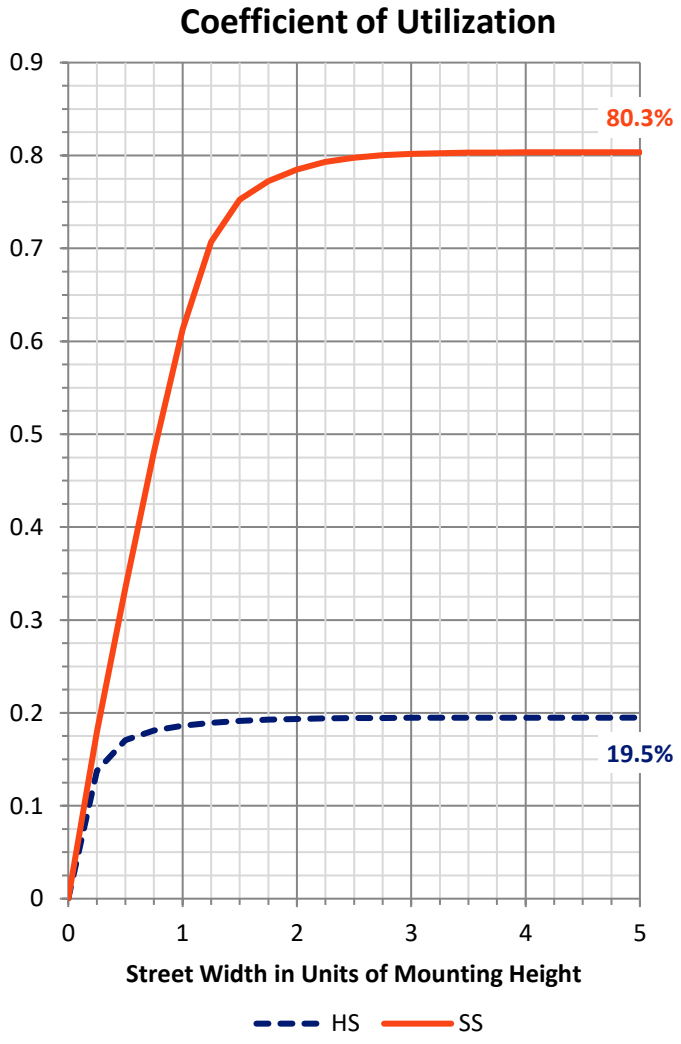
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.3	0.0	2021.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	8236.8	0.0	8236.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	10258.1	0.0	10258.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	3.1
10°-20°	777.8	7.6
20°-30°	1097.1	10.7
30°-40°	1623.5	15.8
40°-50°	2342.2	22.8
50°-60°	2762.8	26.9
60°-70°	1232.5	12.0
70°-80°	106.0	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°	10258.1	100.0
0°-180°	10258.1	100.0



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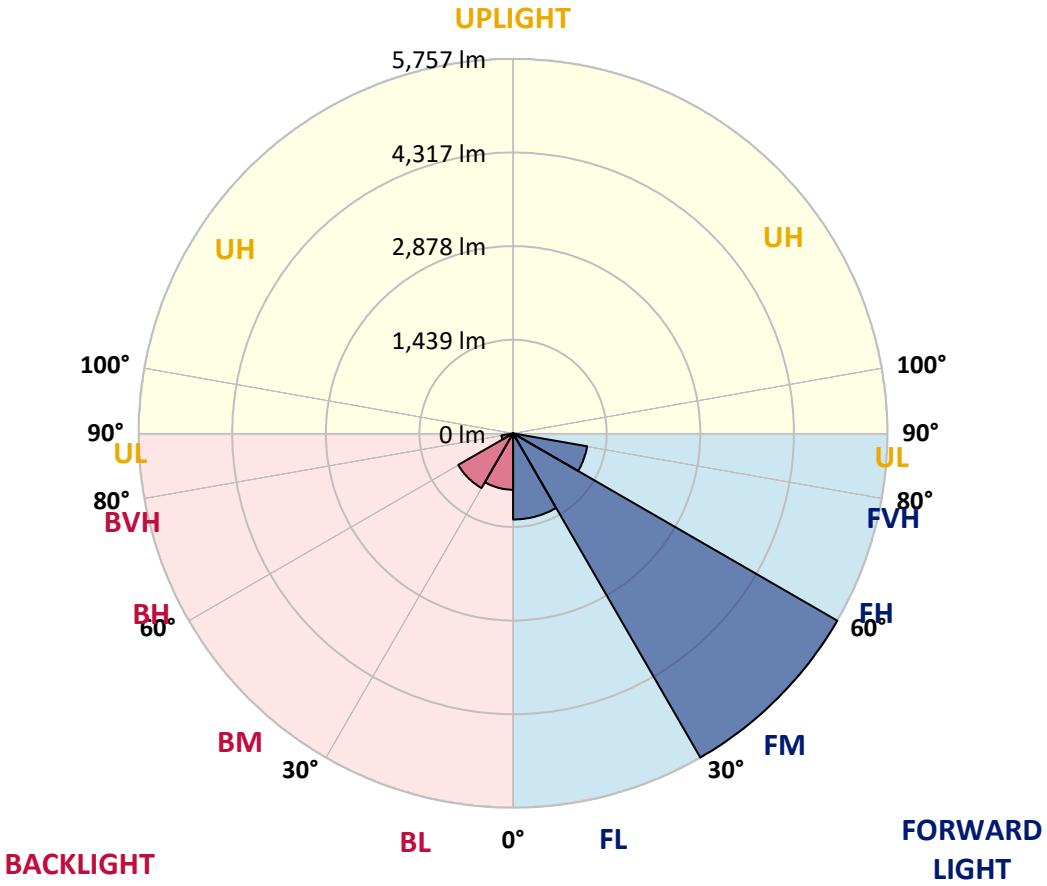
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1324.4	12.9			
FM	(30°-60°)	5756.5	56.1			
FH	(60°-80°)	1155.9	11.3			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	866.7	8.4	B2/1000		
BM	(30°-60°)	972.1	9.5	B1/1000		
BH	(60°-80°)	182.5	1.8	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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REPORT NUMBER: P635994
CATALOG NUMBER: GWS-SA3E-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1
2.5°	3343.6	3346.1	3347.4	3381.2	3393.7	3443.8	3470.1	3483.9	3520.2	3562.8	3597.9
5°	3119.5	3115.7	3122.0	3164.6	3192.1	3266.0	3306.1	3333.6	3413.8	3514.0	3597.9
7.5°	2924.1	2931.6	2939.1	2985.5	3026.8	3107.0	3164.6	3205.9	3317.3	3466.4	3607.9
10°	2786.4	2786.4	2797.6	2850.2	2899.1	2998.0	3055.6	3108.2	3241.0	3423.8	3619.1
12.5°	2684.9	2686.2	2700.0	2760.1	2816.4	2919.1	2979.2	3030.6	3177.1	3381.2	3621.7
15°	2637.3	2633.6	2644.9	2708.7	2771.3	2867.8	2930.4	2980.5	3132.0	3357.4	3634.2
17.5°	2624.8	2622.3	2631.1	2693.7	2757.6	2851.5	2912.9	2962.9	3125.7	3364.9	3671.7
20°	2661.1	2656.1	2652.4	2706.2	2766.3	2859.0	2922.9	2979.2	3155.8	3406.3	3729.4
22.5°	2747.5	2747.5	2738.8	2765.1	2805.2	2889.1	2955.4	3029.3	3234.7	3488.9	3814.5
25°	2906.6	2894.1	2877.8	2889.1	2884.0	2936.6	3015.5	3118.2	3383.7	3625.4	3918.4
27.5°	3088.2	3099.4	3071.9	3073.1	3029.3	3010.5	3101.9	3257.2	3605.4	3818.3	4072.5
30°	3334.9	3326.1	3327.4	3323.6	3222.2	3133.3	3232.2	3438.8	3884.6	4112.6	4272.8
32.5°	3527.7	3540.3	3581.6	3605.4	3472.6	3329.9	3435.1	3685.5	4202.7	4448.2	4518.3
35°	3731.9	3754.4	3838.3	3915.9	3804.5	3640.4	3753.1	4012.4	4502.0	4780.0	4800.1
37.5°	3947.3	3992.3	4092.5	4229.0	4211.5	4066.2	4168.9	4396.8	4737.5	4980.4	5033.0
40°	4194.0	4237.8	4401.8	4598.4	4639.8	4607.2	4641.0	4773.8	4892.7	4989.2	5133.2
42.5°	4464.5	4524.6	4732.4	4995.4	5150.7	5179.5	5100.6	5086.8	4960.4	4889.0	5111.9
45°	4783.8	4853.9	5089.3	5430.0	5676.7	5715.5	5579.0	5402.4	5002.9	4815.1	5048.0
47.5°	5141.9	5208.3	5442.5	5852.0	6218.9	6234.0	5996.0	5711.7	5129.4	4900.3	5096.9
50°	5262.2	5303.5	5506.4	5987.2	6663.5	6778.7	6434.3	6059.9	5383.6	5150.7	5334.8
52.5°	4848.9	4865.2	5041.8	5527.7	6573.3	7313.4	7074.2	6579.6	5835.7	5532.7	5701.7
55°	3842.1	3815.8	3958.5	4404.3	5713.0	7204.5	7654.1	7396.1	6418.0	5981.0	6178.9
57.5°	2687.4	2656.1	2623.6	2925.4	4262.8	6107.5	7053.0	7510.0	6972.8	6425.6	6693.5
60°	2209.1	2179.0	2021.2	1882.2	2577.2	4385.6	5417.5	6277.8	6927.7	6403.0	6677.3
62.5°	1908.5	1891.0	1827.1	1638.0	1516.5	2503.3	3392.5	4216.5	5316.0	5028.0	5043.0
65°	1499.0	1494.0	1537.8	1557.9	1341.2	1385.0	1730.7	2191.5	2874.0	2710.0	2569.7
67.5°	1024.4	1013.1	1095.8	1347.5	1289.9	1093.3	1013.1	1021.9	1243.5	760.1	603.6
70°	651.2	624.9	626.2	835.3	1049.4	862.8	781.4	687.5	618.6	112.7	127.7
72.5°	417.0	400.7	344.4	376.9	485.9	420.8	424.5	365.7	244.2	60.1	70.1
75°	175.3	161.5	124.0	98.9	97.7	61.4	53.8	50.1	33.8	33.8	36.3
77.5°	1.3	0.0	0.0	1.3	2.5	1.3	1.3	2.5	5.0	7.5	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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: P635994
CATALOG NUMBER: GWS-SA3E-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1
2.5°	3619.1	3589.1	3622.9	3635.4	3634.2	3635.4	3599.1	3574.1	3572.8	3541.5	3526.5
5°	3632.9	3609.1	3634.2	3617.9	3579.1	3530.2	3465.1	3408.8	3383.7	3347.4	3329.9
7.5°	3659.2	3634.2	3630.4	3565.3	3468.9	3366.2	3251.0	3148.3	3093.2	3026.8	3030.6
10°	3678.0	3649.2	3600.4	3467.6	3307.3	3143.3	2971.7	2818.9	2722.5	2633.6	2618.6
12.5°	3685.5	3642.9	3529.0	3328.6	3103.2	2889.1	2637.3	2419.4	2269.2	2152.7	2136.4
15°	3699.3	3630.4	3437.6	3160.8	2851.5	2548.4	2227.8	1929.8	1730.7	1596.7	1608.0
17.5°	3720.6	3616.6	3334.9	2973.0	2581.0	2152.7	1719.4	1377.5	1194.7	1117.1	1118.3
20°	3750.6	3600.4	3222.2	2766.3	2256.6	1705.6	1202.2	944.2	892.9	890.4	886.6
22.5°	3790.7	3584.1	3101.9	2539.7	1872.2	1194.7	800.2	720.1	741.4	782.7	790.2
25°	3838.3	3564.0	2968.0	2284.2	1452.7	783.9	599.9	587.3	638.7	693.8	706.3
27.5°	3912.2	3554.0	2815.2	1993.7	1019.4	562.3	490.9	498.4	544.8	591.1	602.4
30°	4037.4	3572.8	2648.6	1668.1	655.0	448.3	425.8	437.1	462.1	485.9	495.9
32.5°	4207.7	3627.9	2487.1	1312.4	467.1	389.5	384.5	390.7	400.7	414.5	418.3
35°	4406.8	3723.1	2320.5	939.2	385.7	355.7	350.6	350.6	355.7	358.2	359.4
37.5°	4570.9	3823.3	2164.0	624.9	345.6	329.4	321.8	318.1	316.8	319.3	320.6
40°	4642.3	3864.6	1993.7	454.6	316.8	305.6	294.3	283.0	283.0	291.8	293.0
42.5°	4592.2	3818.3	1797.1	375.7	296.8	280.5	263.0	253.0	258.0	266.7	269.2
45°	4485.7	3704.3	1580.4	331.9	276.8	255.5	235.4	229.2	234.2	245.5	248.0
47.5°	4468.2	3629.2	1321.2	303.1	255.5	234.2	212.9	206.6	212.9	221.7	224.2
50°	4642.3	3694.3	1033.1	278.0	235.4	211.6	194.1	187.8	191.6	196.6	199.1
52.5°	4960.4	3936.0	834.0	254.2	211.6	189.1	177.8	170.3	170.3	175.3	176.6
55°	*5430.0*	*4358.0*	*720.1*	*226.7*	*184.1*	*171.6*	*161.5*	*154.0*	*154.0*	*156.5*	*157.8*
57.5°	5971.0	4868.9	746.4	190.3	161.5	155.3	146.5	140.3	142.8	142.8	142.8
60°	5895.8	4831.4	799.0	160.3	142.8	140.3	132.7	130.2	136.5	131.5	129.0
62.5°	4343.0	3337.4	418.3	131.5	122.7	120.2	115.2	120.2	129.0	115.2	110.2
65°	2108.9	1615.5	167.8	107.7	103.9	101.4	98.9	106.4	111.5	90.2	85.2
67.5°	495.9	403.2	109.0	91.4	86.4	81.4	83.9	85.2	81.4	61.4	58.9
70°	129.0	126.5	85.2	76.4	68.9	63.9	63.9	62.6	53.8	38.8	36.3
72.5°	70.1	68.9	61.4	57.6	47.6	42.6	43.8	38.8	30.1	22.5	21.3
75°	35.1	37.6	35.1	32.6	26.3	23.8	23.8	21.3	15.0	8.8	8.8
77.5°	7.5	8.8	8.8	7.5	6.3	5.0	5.0	6.3	2.5	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	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

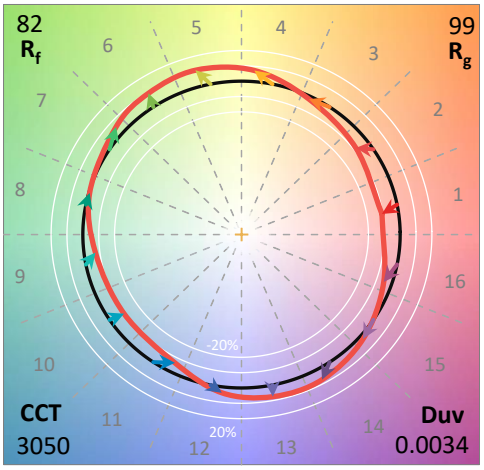
Test Information

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

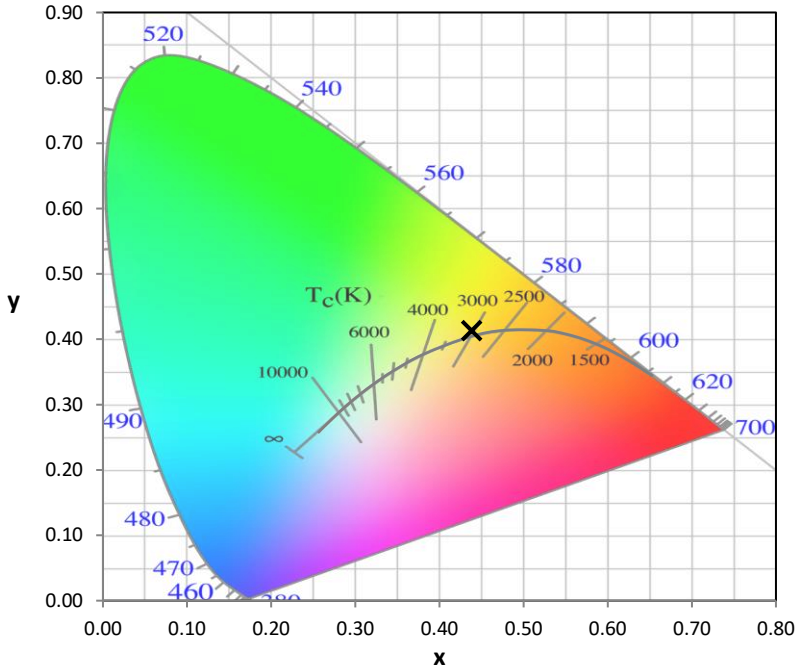
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

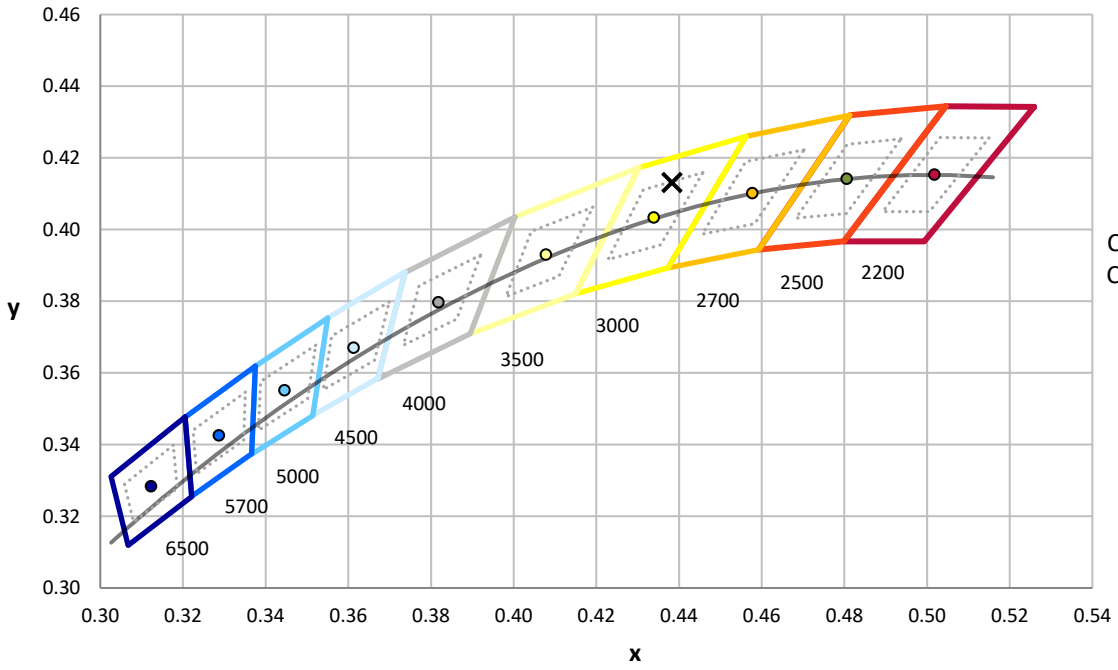
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

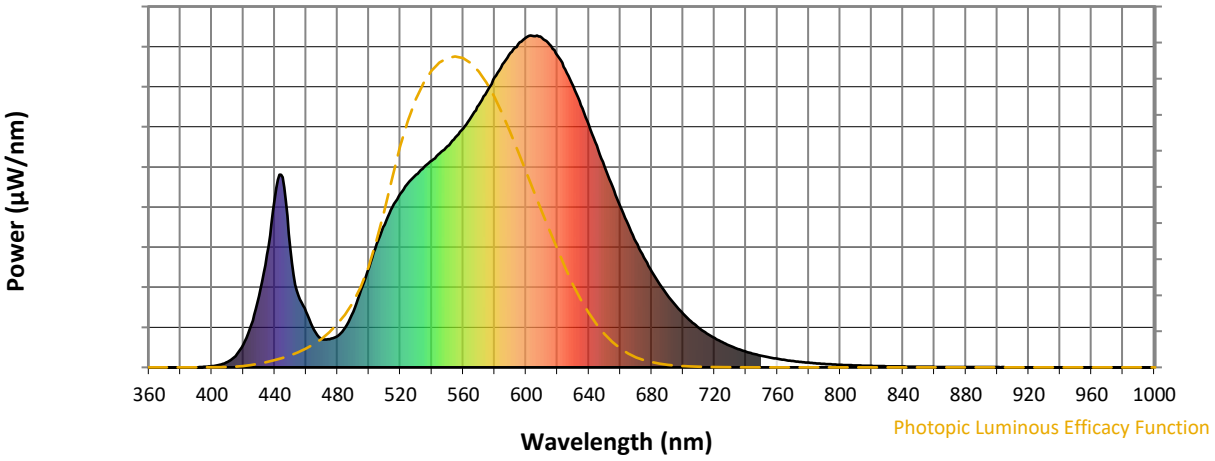


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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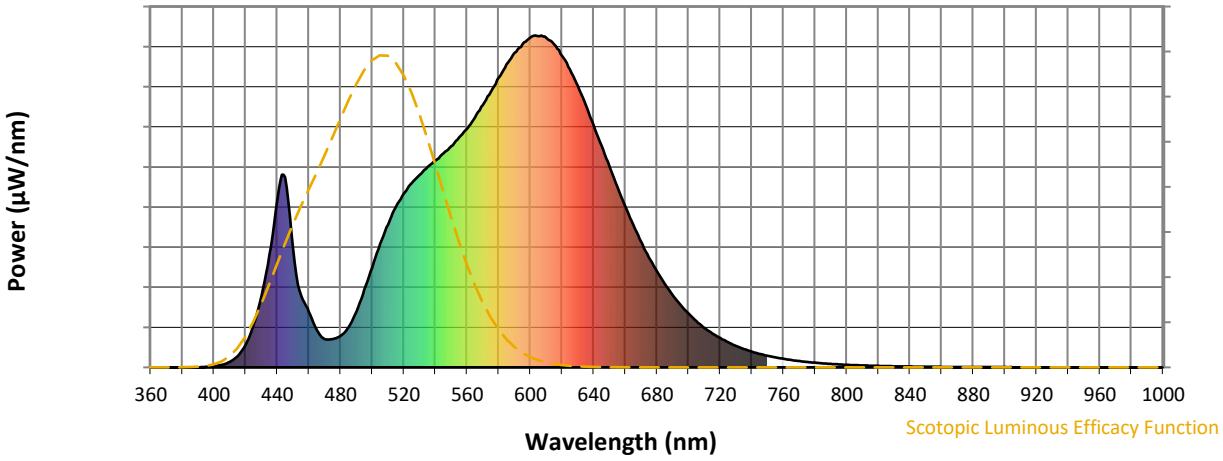
Scotopic Flux vs. Wavelength



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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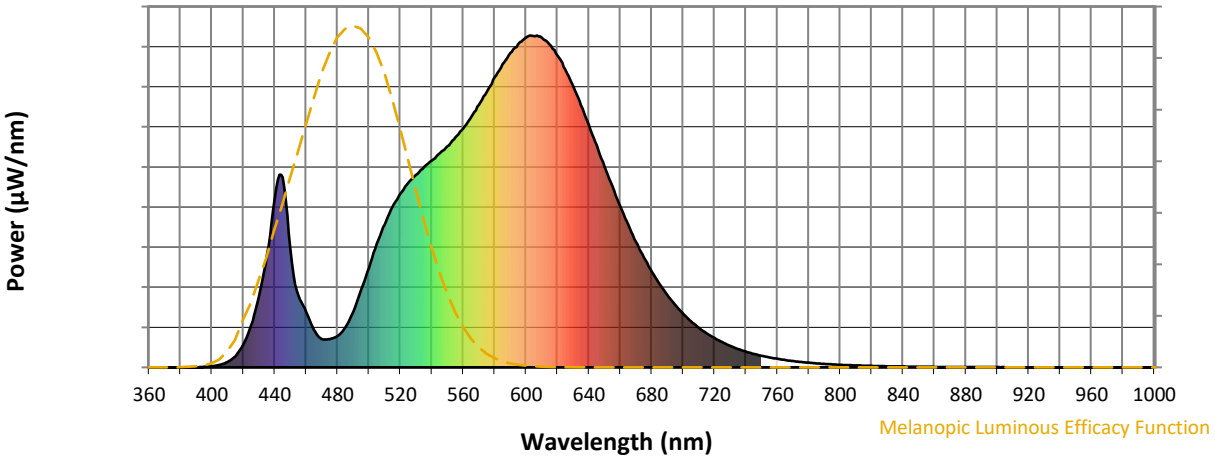
Melanopic Flux vs. Wavelength



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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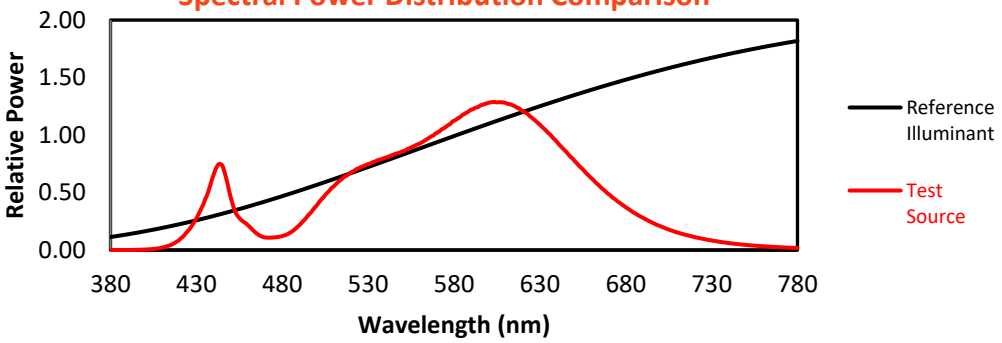
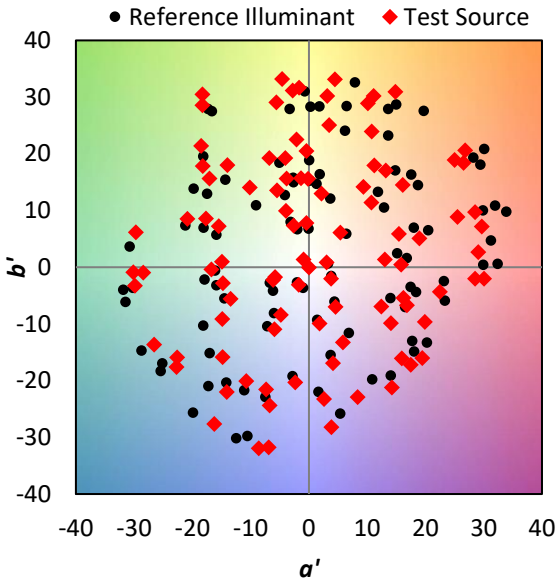
Summary

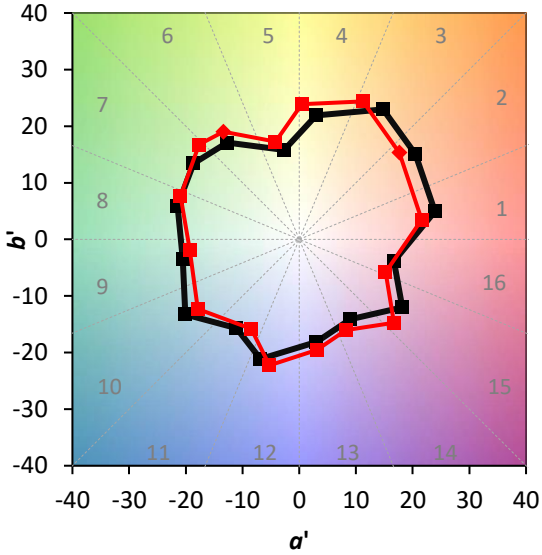
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

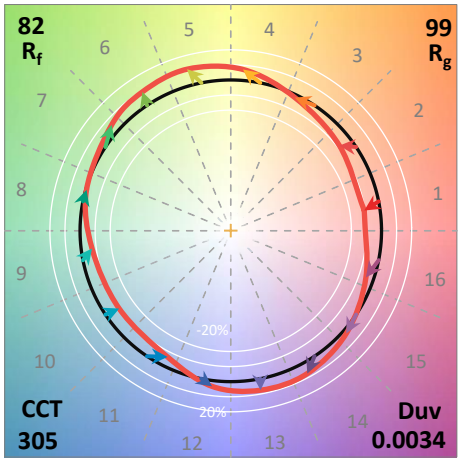
Spectral Power Distribution Comparison

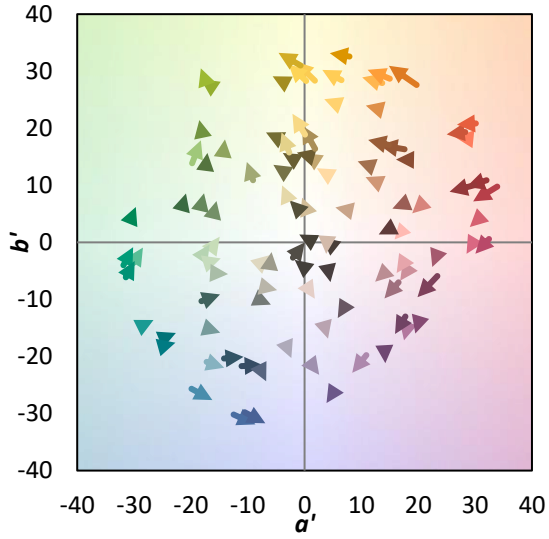


Color Vector Graphics









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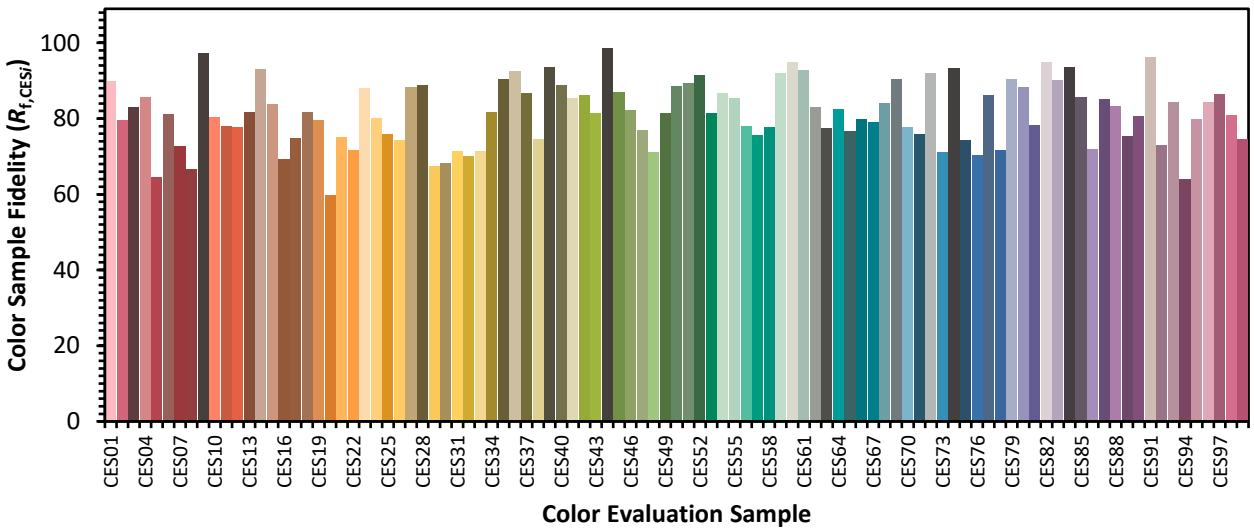
Individual Sample Fidelity Index ($R_{f,i}$)

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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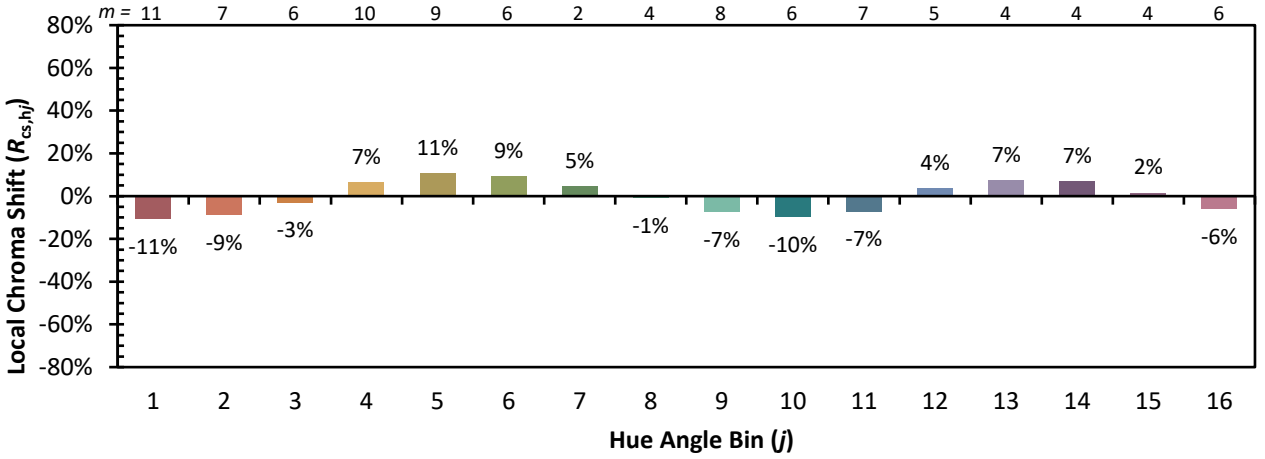
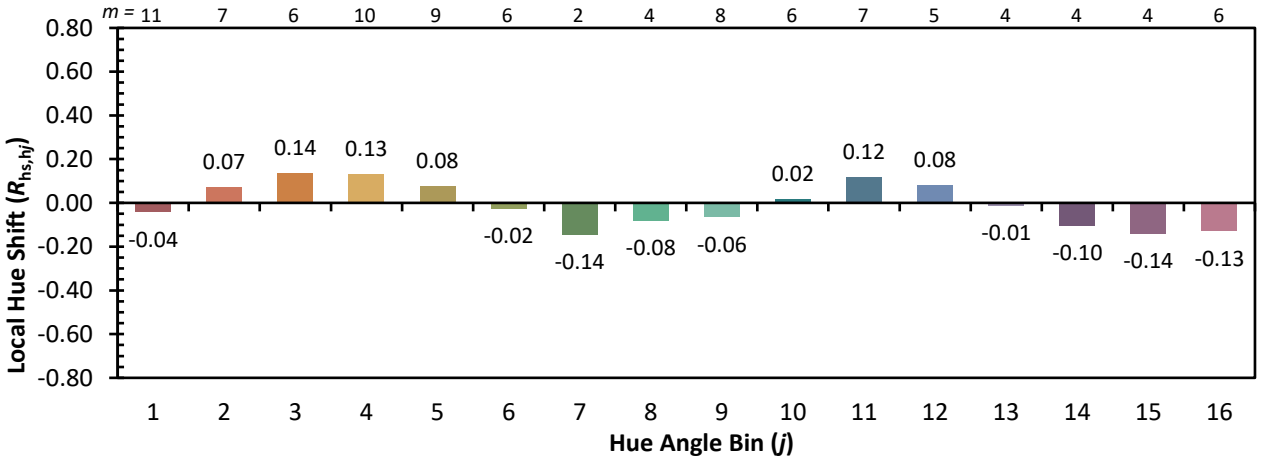
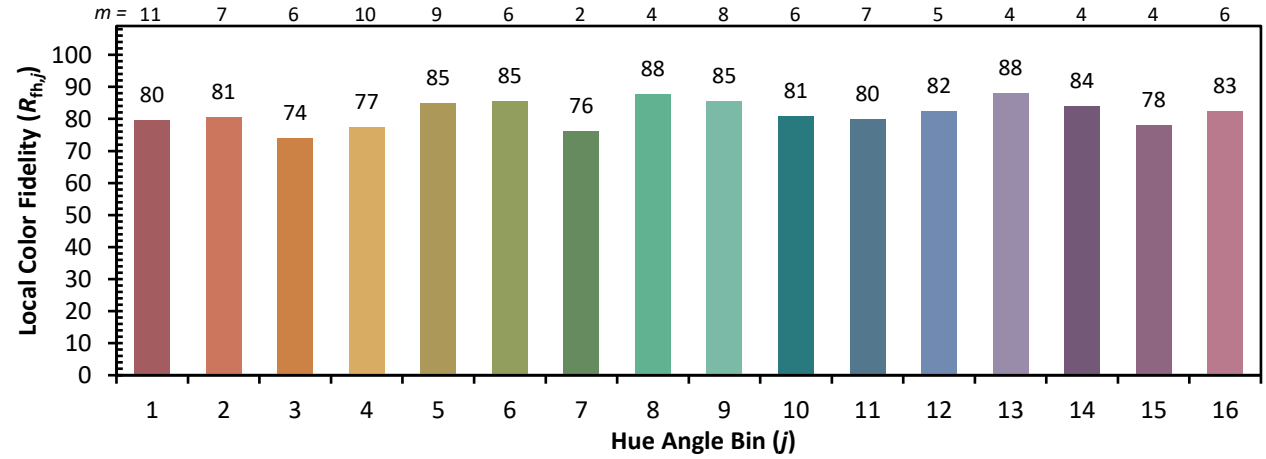
Color Rendition by Hue-Angle Bin







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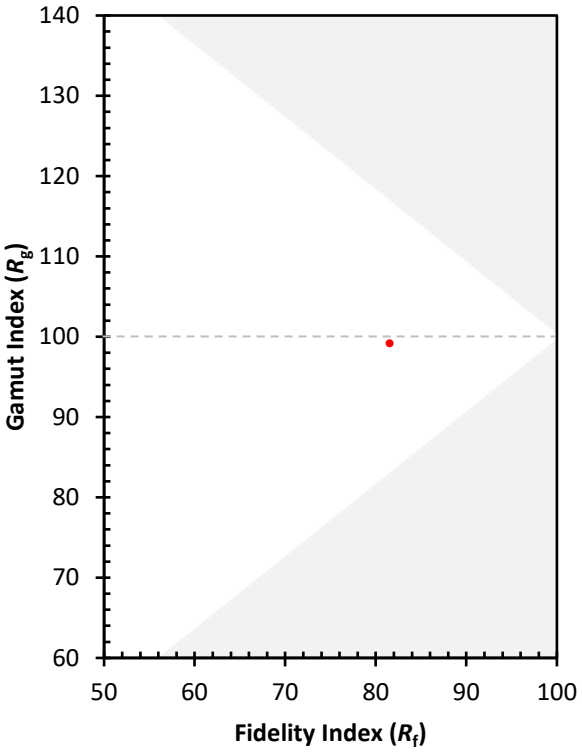
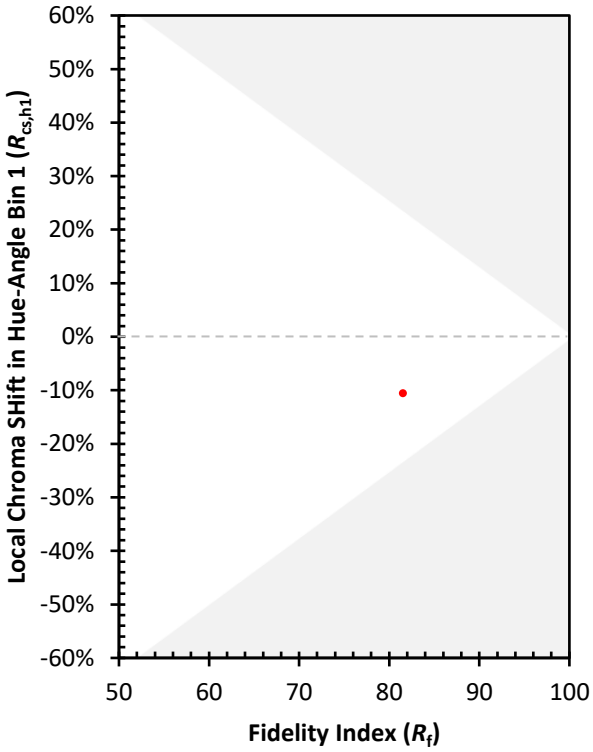
Measure Comparisons





(END OF REPORT)