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: P634999

Luminaire Tested: GWS-SA3C-830-U-AFL-W-HSS

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:	P634999
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-AFL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9292.8 lumens
Efficiency:	N/A
Efficacy:	99.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	93
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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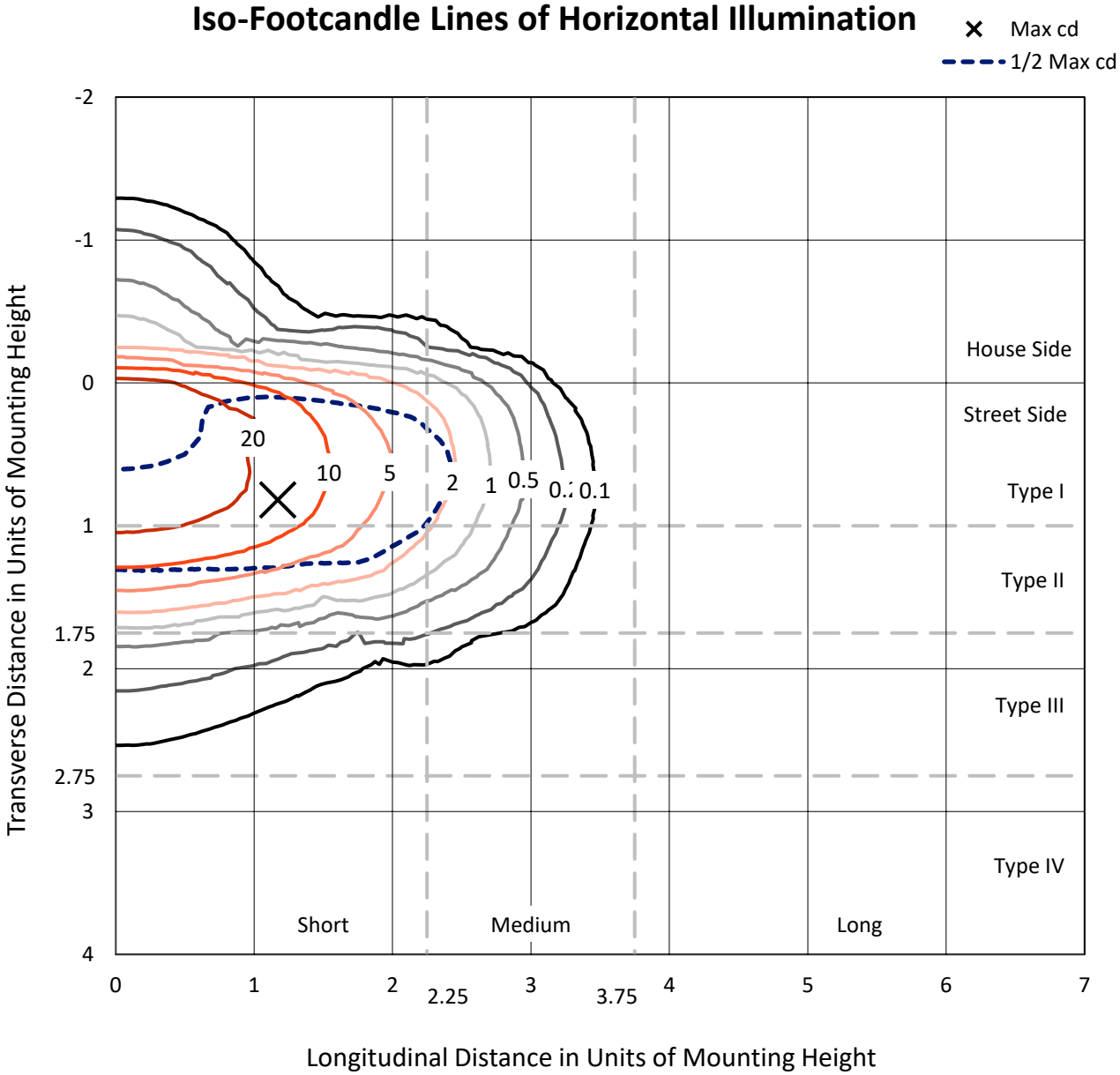
Scaled Data Report

REPORT NUMBER: P634999
CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 31.5 fc
Type II - Short - N/A

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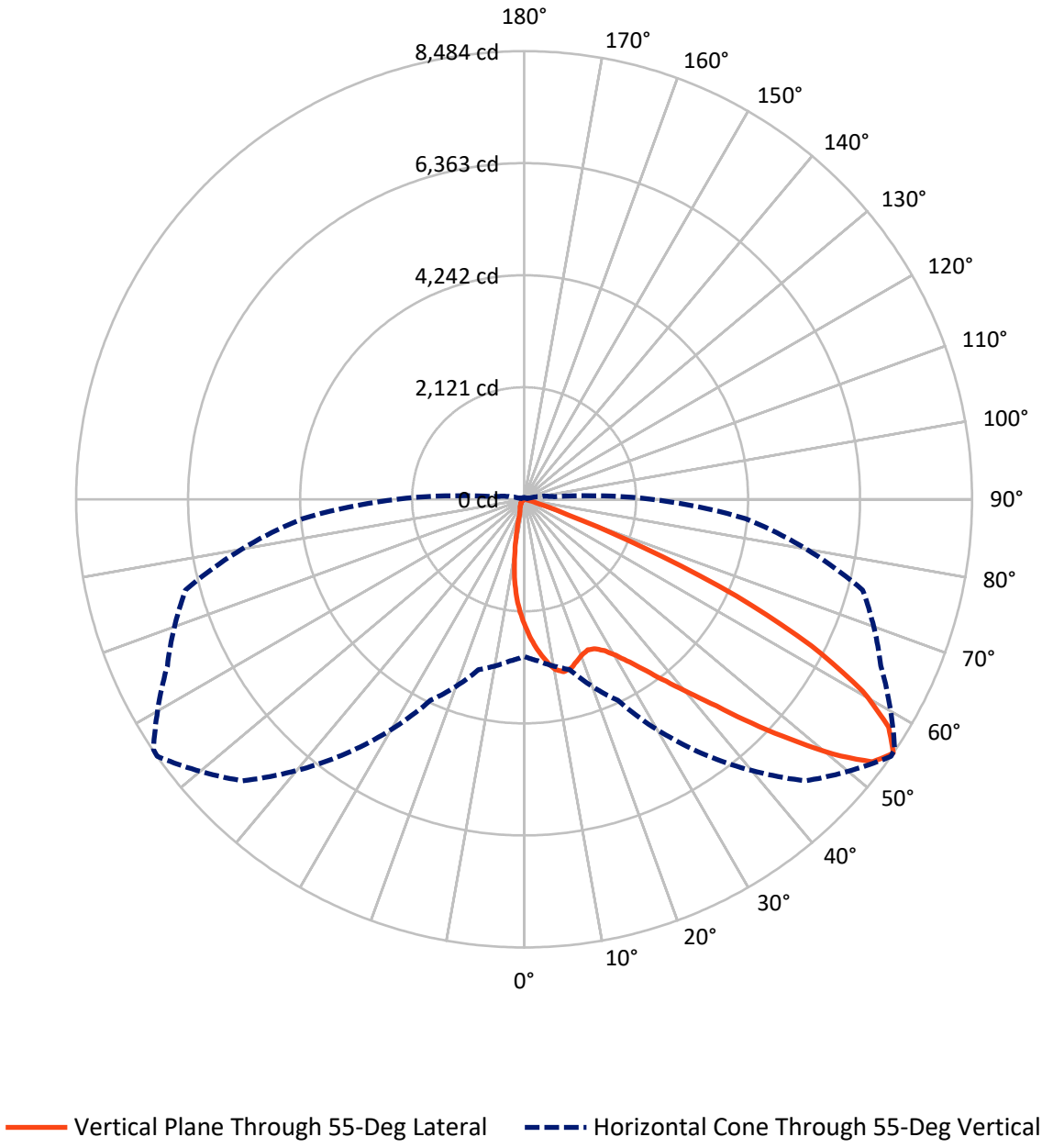
Luminous Intensity Polar Plot



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REPORT NUMBER: P634999
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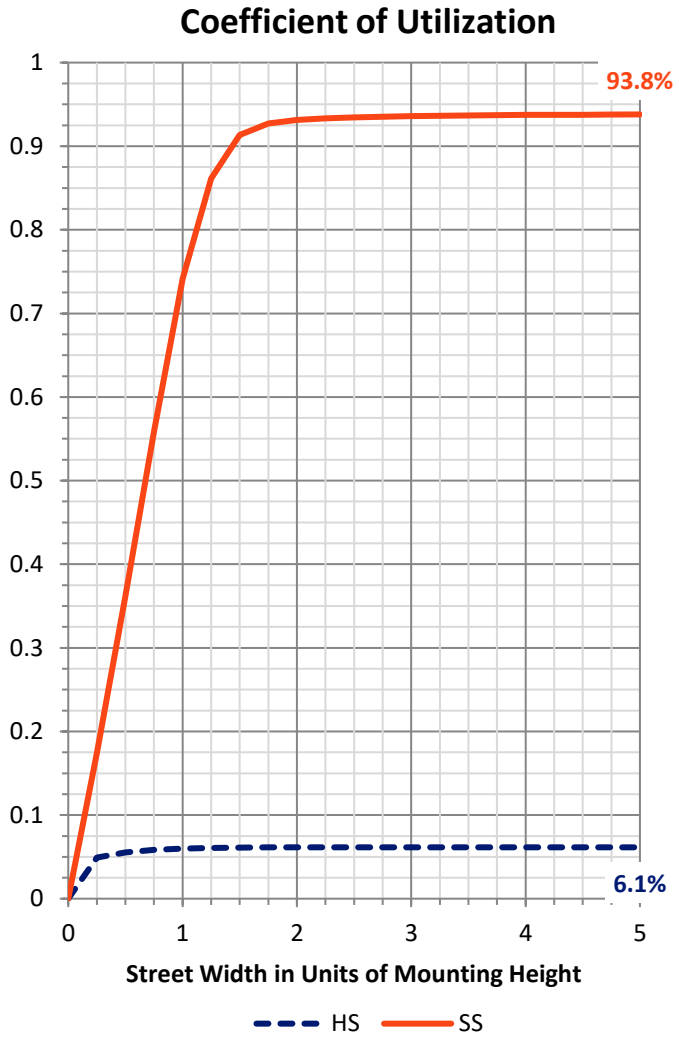
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.4	0.0	573.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8719.4	0.0	8719.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	9292.8	0.0	9292.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	2.3
10°-20°	511.5	5.5
20°-30°	851.9	9.2
30°-40°	1451.6	15.6
40°-50°	2369.5	25.5
50°-60°	2480.8	26.7
60°-70°	1251.3	13.5
70°-80°	158.1	1.7
80°-90°	6.0	0.1
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°	9292.8	100.0
0°-180°	9292.8	100.0



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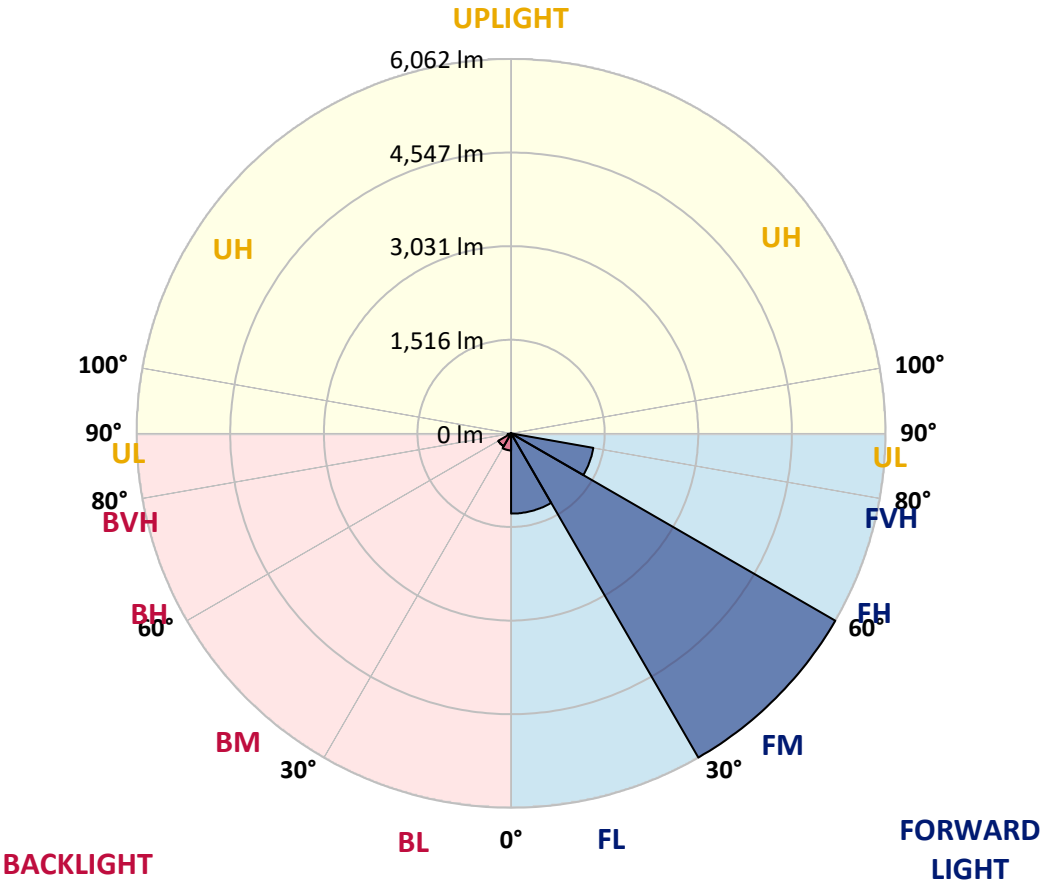
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1299.9	14.0			
FM	(30°-60°)	6062.2	65.2			
FH	(60°-80°)	1351.8	14.5			G1/1800
FVH	(80°-90°)	5.5	0.1			G0/10
BL	(0°-30°)	275.6	3.0	B1/500		
BM	(30°-60°)	239.7	2.6	B1/1000		
BH	(60°-80°)	57.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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REPORT NUMBER: P634999
CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7
2.5°	2798.7	2785.2	2805.9	2782.0	2741.5	2707.4	2662.9	2647.0	2575.5	2508.0	2442.8
5°	3138.7	3142.7	3136.3	3103.0	3045.8	2982.2	2892.5	2872.6	2747.9	2619.2	2480.2
7.5°	3222.9	3220.5	3234.1	3246.8	3237.2	3205.5	3107.7	3087.9	2933.0	2739.9	2537.4
10°	2963.2	2964.7	2992.6	3078.3	3184.8	3295.2	3280.1	3269.0	3117.3	2876.6	2600.9
12.5°	2596.1	2610.4	2639.8	2762.2	2942.5	3193.5	3349.2	3360.4	3286.5	3026.7	2675.6
15°	2437.3	2440.4	2464.3	2538.1	2672.4	2982.2	3319.9	3350.8	3427.9	3177.7	2756.6
17.5°	2433.3	2437.3	2447.6	2480.2	2567.5	2816.2	3225.3	3279.3	3534.3	3339.7	2853.5
20°	2582.6	2580.3	2573.1	2555.6	2593.8	2761.4	3137.9	3197.5	3592.3	3497.8	2951.2
22.5°	2853.5	2850.4	2818.6	2746.3	2715.3	2811.4	3095.0	3149.1	3627.3	3638.4	3031.5
25°	3165.7	3188.0	3128.4	3018.8	2942.5	2939.3	3133.2	3171.3	3657.5	3763.1	3086.3
27.5°	3508.1	3515.3	3464.4	3341.3	3230.9	3144.3	3243.6	3272.2	3690.8	3874.4	3117.3
30°	3883.9	3881.5	3823.5	3680.5	3546.3	3421.5	3429.5	3440.6	3768.7	4001.5	3151.4
32.5°	4353.4	4363.7	4260.4	4065.8	3904.5	3732.2	3672.6	3674.2	3909.3	4165.1	3203.1
35°	4991.3	4965.9	4829.2	4552.0	4277.1	4091.2	3989.5	3980.8	4126.2	4385.2	3292.8
37.5°	5599.0	5601.4	5458.4	5153.4	4806.2	4513.1	4369.3	4345.4	4431.2	4690.2	3442.2
40°	6020.9	6028.8	5969.2	5809.5	5441.7	5027.0	4815.7	4791.1	4826.9	5076.3	3637.6
42.5°	6244.1	6266.3	6283.0	6320.3	6041.5	5668.9	5344.0	5341.6	5304.3	5516.4	3864.0
45°	6252.8	6286.2	6387.9	6642.9	6674.7	6401.4	6047.9	5994.6	5850.8	5987.5	4066.6
47.5°	5907.3	5984.3	6200.4	6705.6	7039.3	7129.9	6779.5	6746.9	6343.4	6360.1	4218.3
50°	5101.7	5182.0	5580.0	6383.9	7131.4	7708.2	7582.7	7515.1	6754.9	6606.3	4291.4
52.5°	4275.5	4348.6	4618.7	5618.1	6749.3	7890.1	8259.5	8179.3	7124.3	6692.1	4261.2
55°	2975.1	3072.8	3336.5	4199.3	5869.1	7535.8	8483.5	8466.9	7454.0	6638.1	4214.4
57.5°	1458.5	1555.5	1818.4	2589.0	4347.8	6579.3	8141.1	8229.3	7651.0	6580.1	4176.2
60°	609.3	649.0	739.6	1136.0	2432.5	4972.2	7368.2	7490.5	7530.2	6501.5	4172.3
62.5°	353.5	359.9	369.4	471.1	946.1	2850.4	6112.2	6286.2	6895.5	6397.4	4109.5
65°	266.9	269.3	265.3	289.2	390.9	1081.2	4416.1	4652.9	5755.5	5990.7	3861.6
67.5°	219.3	219.3	208.9	213.7	245.5	405.2	2438.1	2768.5	4258.8	4923.8	3188.8
70°	174.8	178.7	174.0	167.6	175.6	224.0	867.5	1075.6	2480.2	2907.6	1859.7
72.5°	132.7	132.7	140.6	135.8	130.3	140.6	302.7	340.0	995.4	1212.3	671.3
75°	102.5	105.7	111.2	106.5	98.5	83.4	145.4	154.1	300.3	282.0	150.1
77.5°	52.4	53.2	70.7	77.9	73.1	50.8	63.6	69.9	97.7	87.4	55.6
80°	31.8	33.4	39.7	61.2	48.5	27.0	26.2	27.8	46.1	39.7	23.0
82.5°	13.5	14.3	22.2	22.2	19.9	10.3	10.3	10.3	22.2	20.7	9.5
85°	0.0	0.0	4.0	3.2	3.2	4.0	4.0	4.0	5.6	7.9	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	2.4
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: P634999
CATALOG NUMBER: GWS-SA3C-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7
2.5°	2400.7	2349.9	2281.6	2219.6	2136.2	2089.3	2024.2	1970.9	1925.7	1911.4	1905.0
5°	2401.5	2314.1	2168.0	2021.8	1842.2	1700.8	1555.5	1440.3	1345.7	1315.5	1307.6
7.5°	2417.4	2288.7	2052.0	1786.6	1486.3	1238.5	1016.8	818.2	726.1	695.1	688.8
10°	2438.8	2267.3	1917.7	1504.6	1073.3	754.7	534.6	407.5	347.2	313.8	318.6
12.5°	2466.7	2249.8	1769.2	1199.6	710.2	414.7	293.9	246.3	233.6	227.2	224.0
15°	2504.0	2229.1	1584.9	896.9	435.3	266.9	226.4	213.7	208.9	205.8	205.0
17.5°	2542.1	2205.3	1397.4	630.8	289.2	221.6	203.4	197.0	193.8	191.5	190.7
20°	2582.6	2164.8	1177.3	434.5	228.0	199.4	187.5	180.3	176.4	172.4	171.6
22.5°	2600.1	2099.6	966.8	304.3	202.6	183.5	168.4	159.7	154.9	151.7	151.7
25°	2583.4	1994.0	749.1	231.2	184.3	166.0	150.9	141.4	137.4	134.3	134.3
27.5°	2538.9	1858.1	546.6	191.5	164.4	147.8	133.5	124.7	121.5	120.0	120.0
30°	2489.7	1686.5	385.3	164.4	142.2	128.7	116.8	111.2	110.4	108.8	108.8
32.5°	2447.6	1526.1	265.3	144.6	125.5	112.0	104.1	101.7	102.5	100.9	101.7
35°	2424.5	1368.8	197.0	128.7	112.0	99.3	95.3	95.3	95.3	94.5	94.5
37.5°	2434.1	1213.9	160.5	117.6	100.1	90.6	86.6	88.2	89.8	89.8	89.8
40°	2481.7	1076.4	142.2	107.2	89.8	82.6	79.4	81.8	84.2	85.8	85.8
42.5°	2542.1	965.2	128.7	98.5	82.6	74.7	73.1	75.5	77.9	79.4	79.4
45°	2580.3	853.2	115.2	87.4	75.5	65.9	65.9	69.1	68.3	69.1	69.1
47.5°	2597.7	764.2	101.7	75.5	64.3	57.2	58.0	59.6	58.0	59.6	59.6
50°	2554.8	674.5	89.8	62.8	53.2	50.0	51.6	50.8	50.8	54.0	54.0
52.5°	2476.2	607.7	79.4	53.2	45.3	44.5	46.1	42.9	43.7	43.7	42.9
55°	*2418.2*	*569.6*	*70.7*	*46.1*	*38.9*	*39.7*	*38.9*	*33.4*	*30.2*	*27.0*	*26.2*
57.5°	2389.6	554.5	64.3	41.3	35.0	35.0	31.8	23.0	17.5	13.5	11.9
60°	2383.2	536.2	58.0	35.7	31.0	29.4	23.0	13.5	8.7	6.4	5.6
62.5°	2322.9	491.7	52.4	28.6	27.0	23.8	14.3	7.9	4.8	3.2	2.4
65°	2125.1	404.4	46.9	22.2	20.7	17.5	8.7	4.8	2.4	0.8	0.0
67.5°	1690.5	286.8	41.3	16.7	14.3	11.1	5.6	3.2	0.8	0.0	0.0
70°	974.7	154.9	34.2	11.9	9.5	7.1	4.0	1.6	0.0	0.0	0.0
72.5°	325.7	72.3	26.2	7.9	7.1	5.6	2.4	0.8	0.0	0.0	0.0
75°	71.5	42.9	17.5	5.6	4.8	4.0	1.6	0.0	0.0	0.0	0.0
77.5°	27.0	30.2	8.7	4.0	3.2	2.4	0.8	0.0	0.0	0.0	0.0
80°	10.3	19.9	4.0	2.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	7.9	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	4.0	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.8	0.8	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

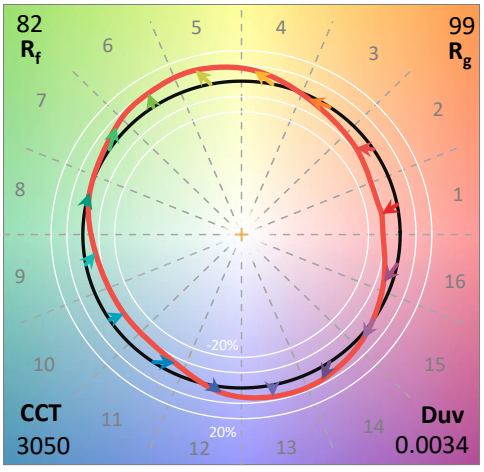
Test Information

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

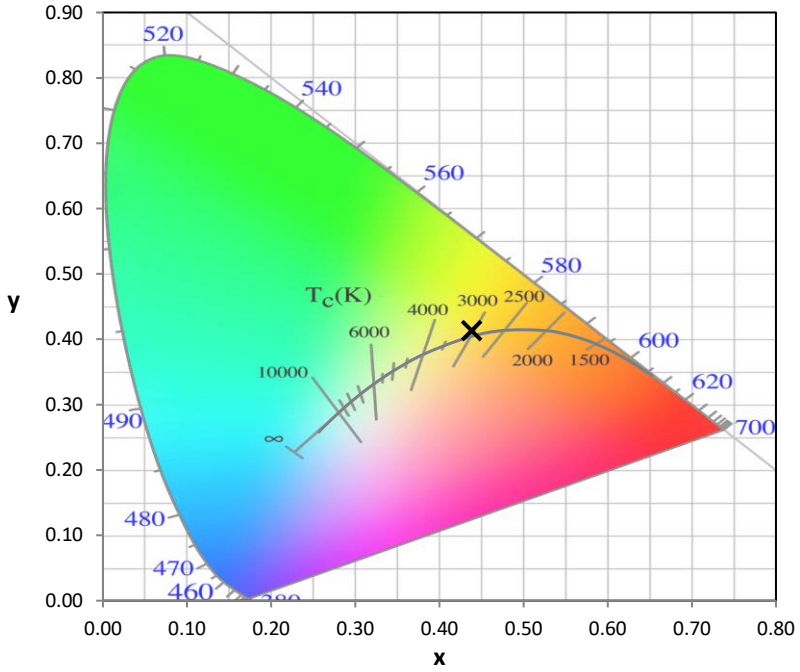
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

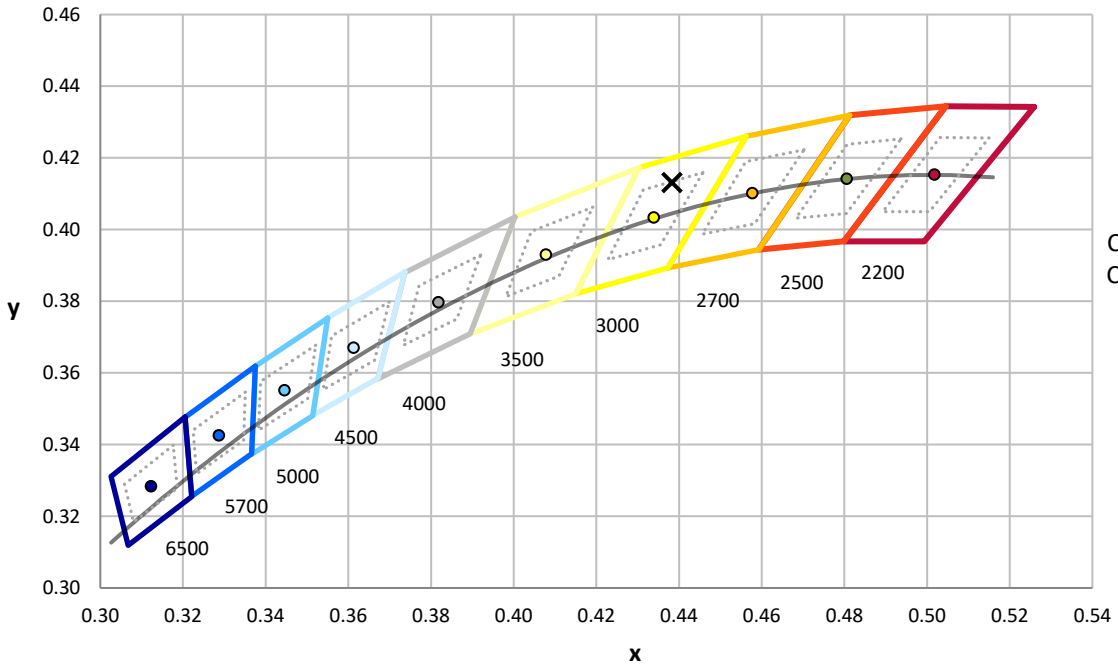
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

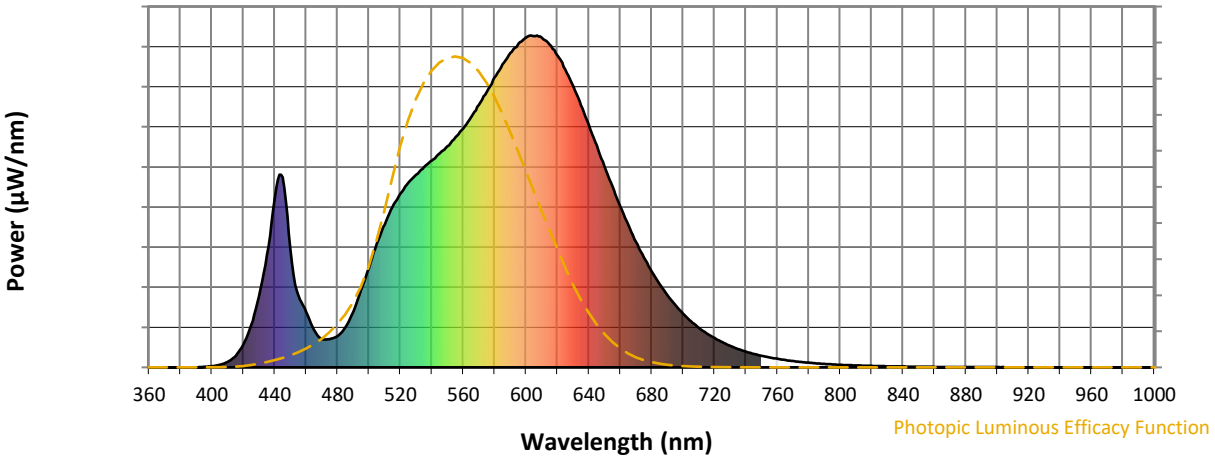


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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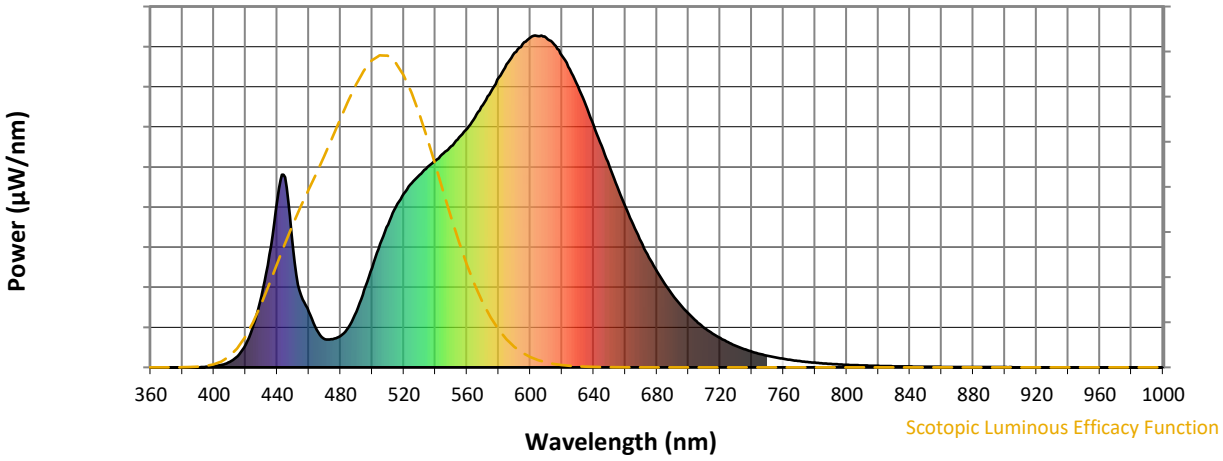
Scotopic Flux vs. Wavelength



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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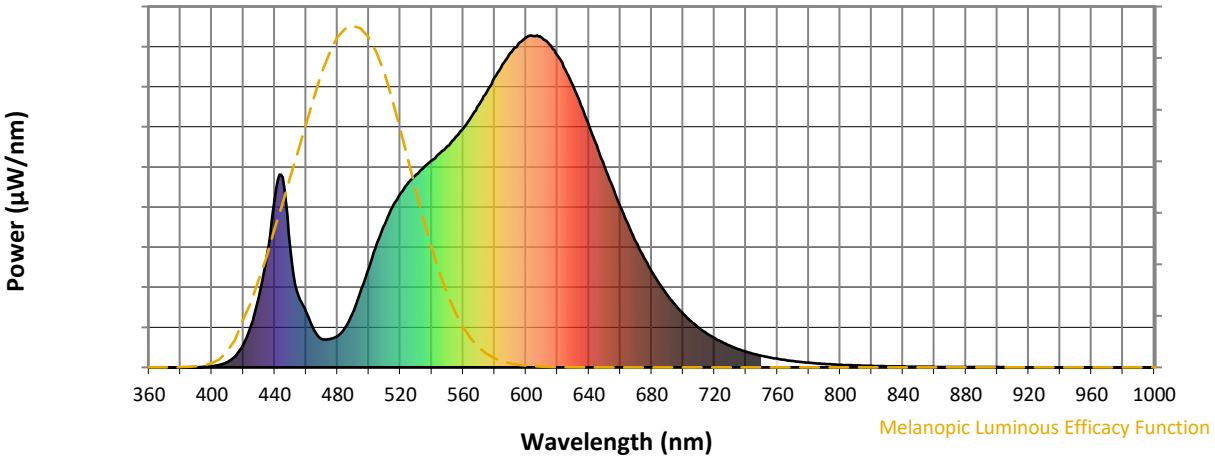
Melanopic Flux vs. Wavelength



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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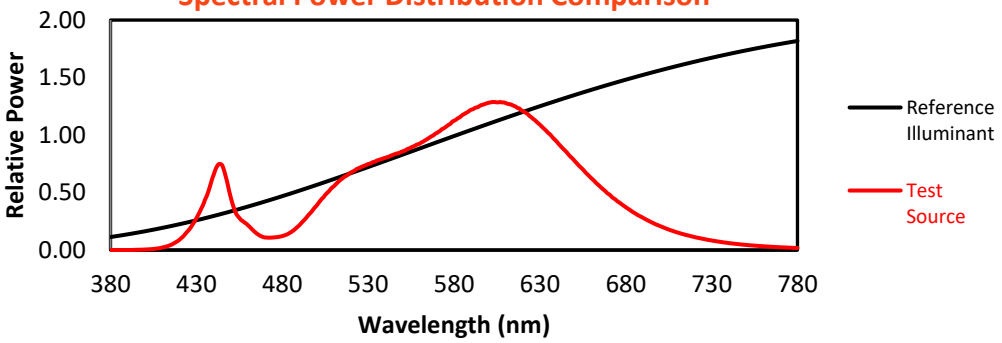
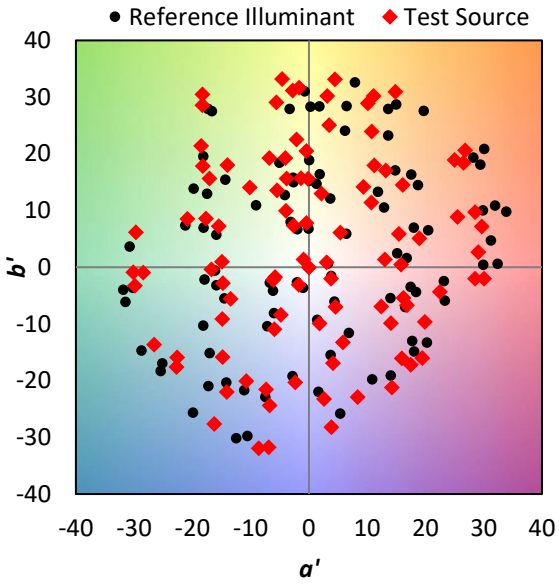
Summary

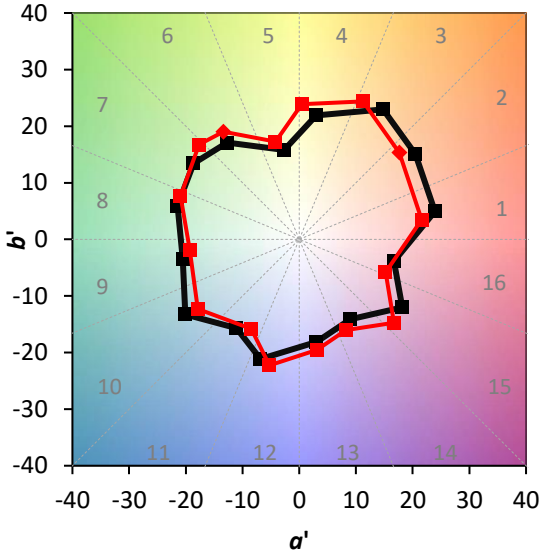
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

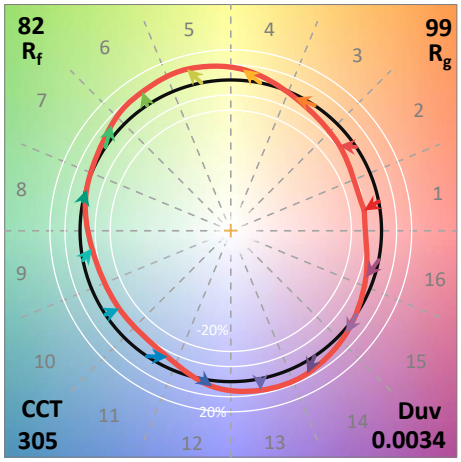
Spectral Power Distribution Comparison

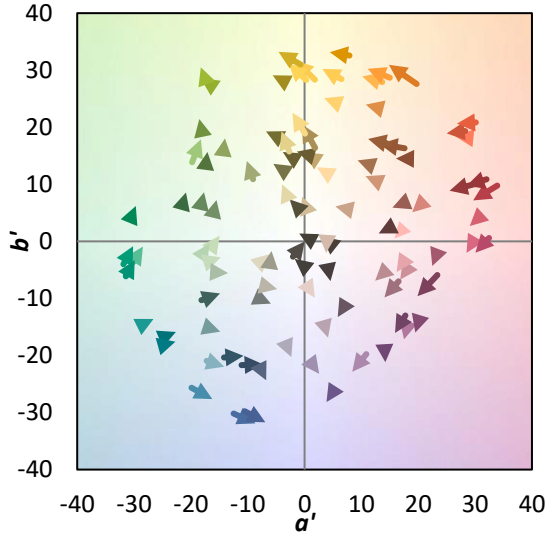


Color Vector Graphics









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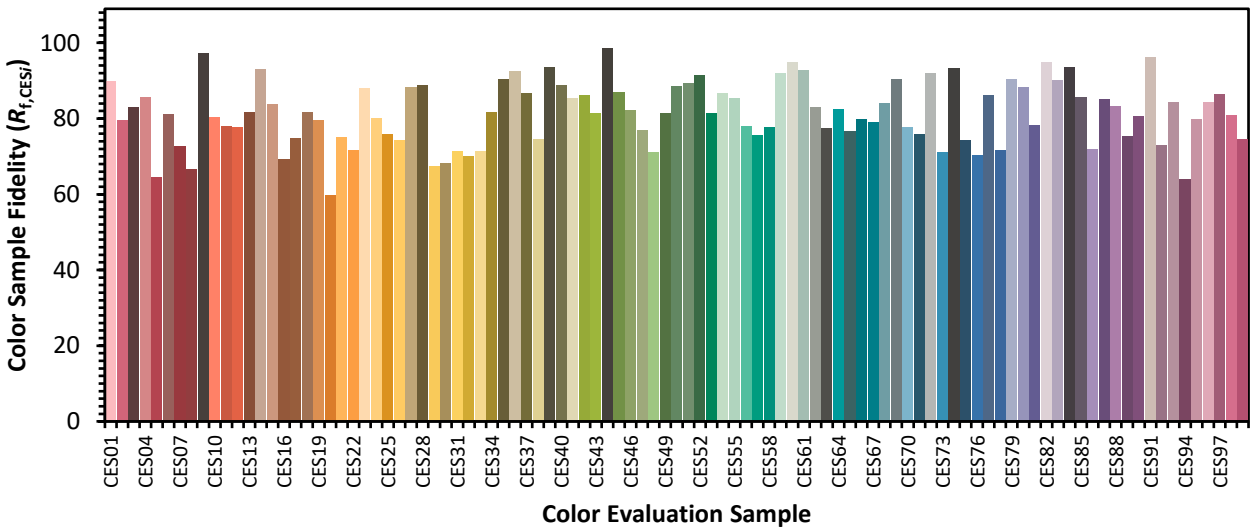
Individual Sample Fidelity Index ($R_{f,i}$)

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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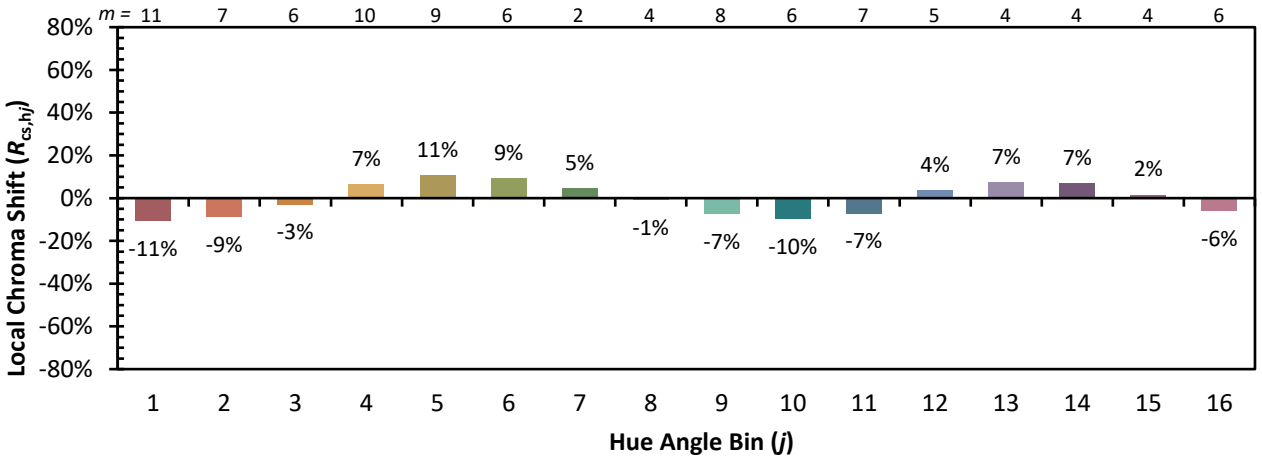
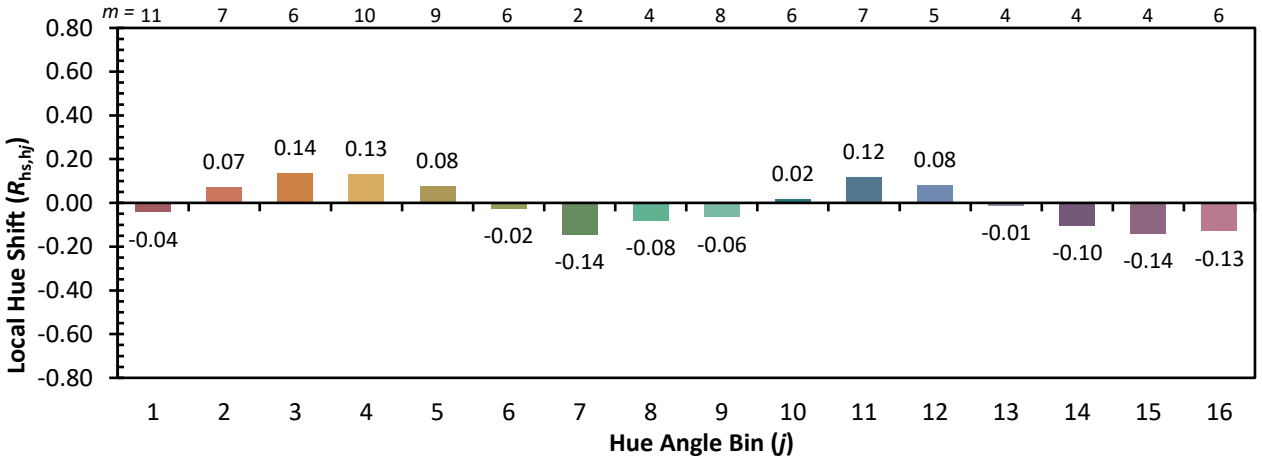
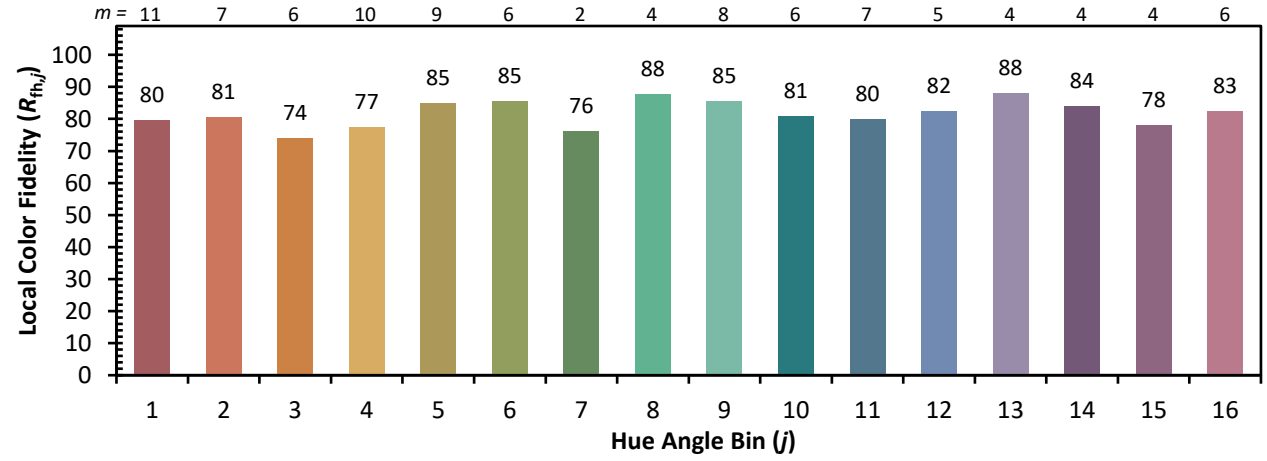
Color Rendition by Hue-Angle Bin







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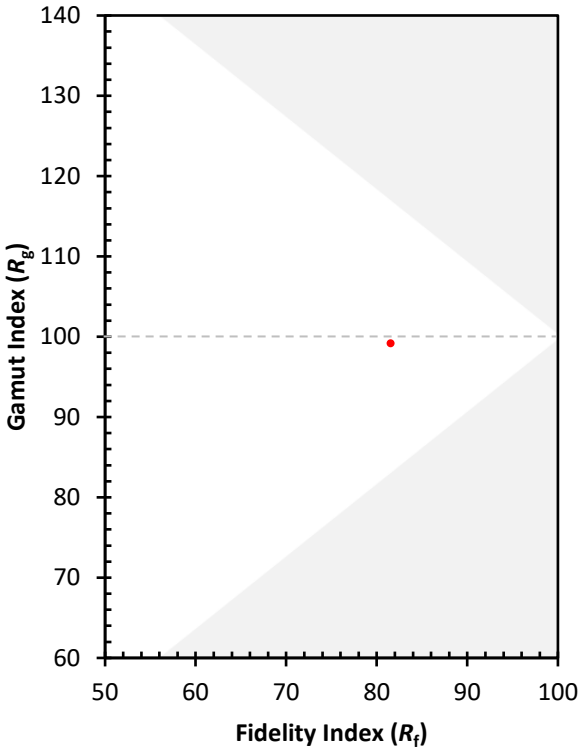
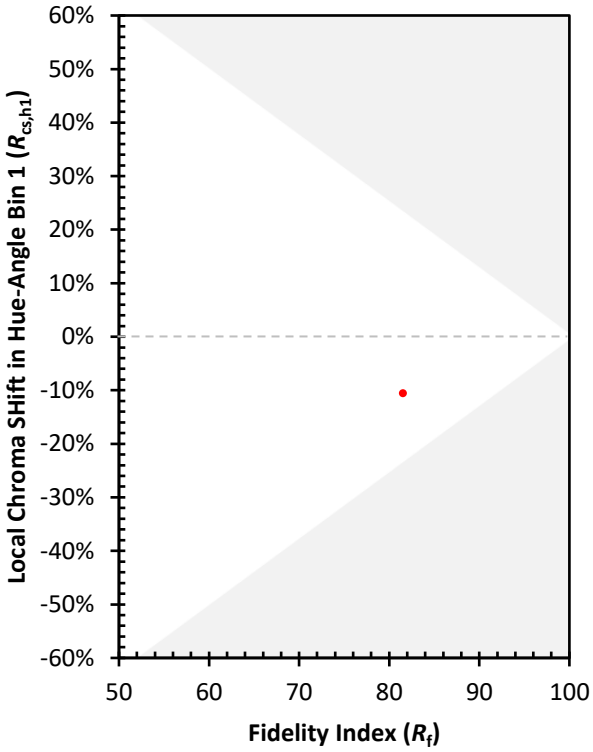
Measure Comparisons





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