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: P642919

Luminaire Tested: GWS-SA6D-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:	P642919
	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-SA6D-830-U-AFL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23863.4 lumens
Efficiency:	N/A
Efficacy:	97.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	245.7
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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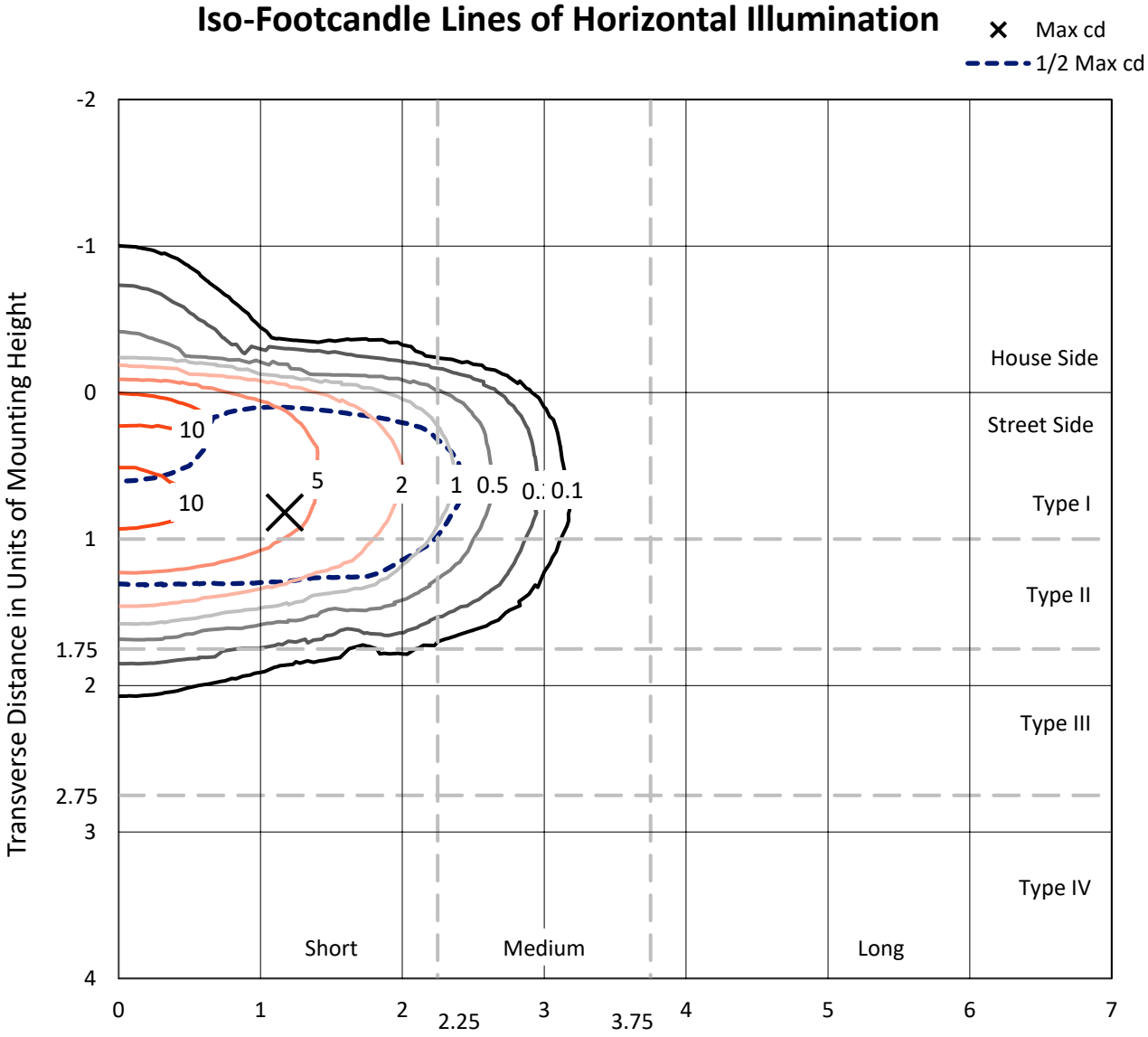
REPORT NUMBER: P642919
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Short - N/A

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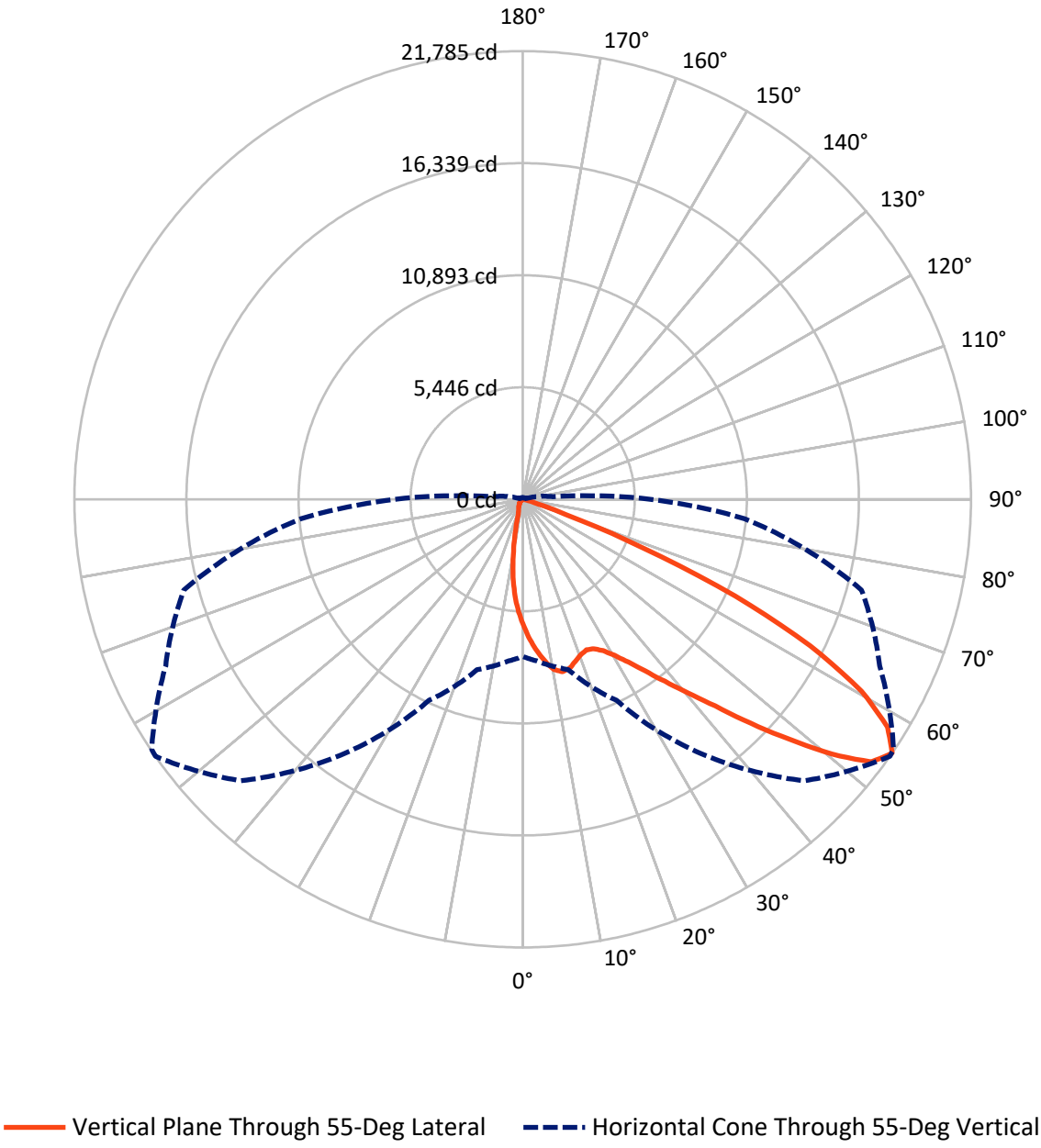
Luminous Intensity Polar Plot



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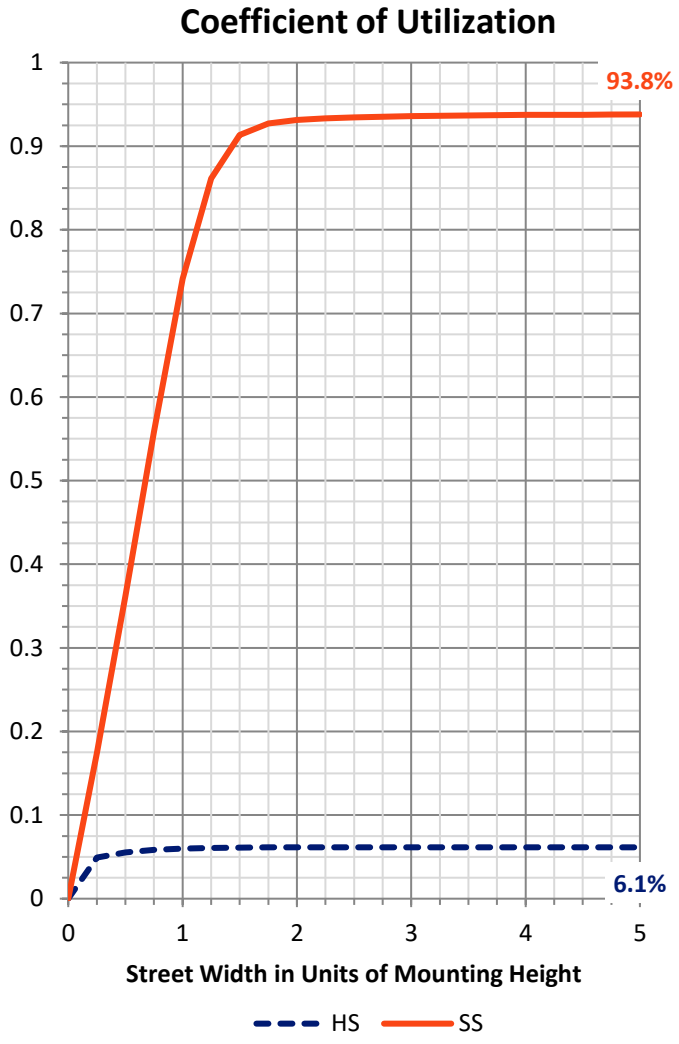
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.5	0.0	1472.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22390.9	0.0	22390.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	23863.4	0.0	23863.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.8	2.3
10°-20°	1313.5	5.5
20°-30°	2187.5	9.2
30°-40°	3727.7	15.6
40°-50°	6084.9	25.5
50°-60°	6370.5	26.7
60°-70°	3213.2	13.5
70°-80°	405.9	1.7
80°-90°	15.4	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°	23863.4	100.0
0°-180°	23863.4	100.0



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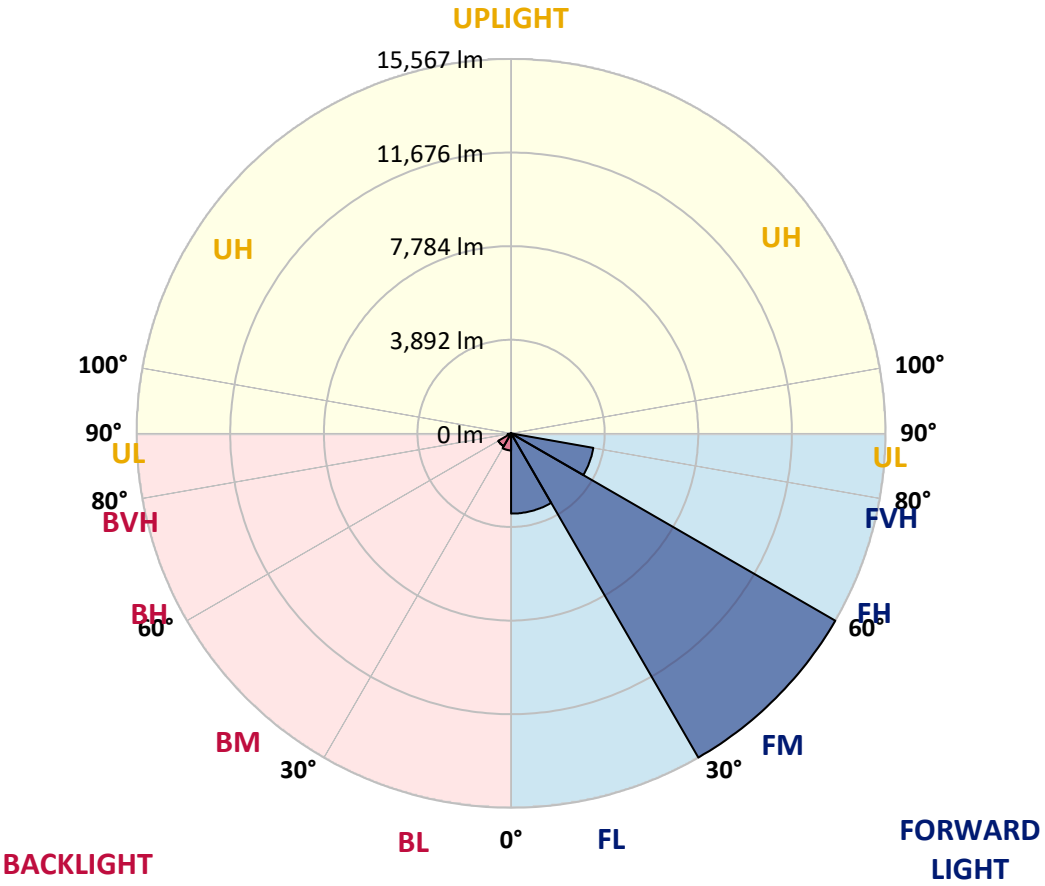
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3338.2	14.0			
FM	(30°-60°)	15567.4	65.2			
FH	(60°-80°)	3471.3	14.5			G2/5000
FVH	(80°-90°)	14.0	0.1			G1/100
BL	(0°-30°)	707.7	3.0	B2/1000		
BM	(30°-60°)	615.7	2.6	B1/1000		
BH	(60°-80°)	147.7	0.6	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G2
Type II Short



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REPORT NUMBER: P642919
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9
2.5°	7186.9	7152.3	7205.3	7144.1	7040.1	6952.3	6838.1	6797.3	6613.7	6440.3	6273.0
5°	8060.1	8070.3	8054.0	7968.3	7821.4	7658.2	7427.7	7376.7	7056.4	6725.9	6368.9
7.5°	8276.3	8270.2	8304.9	8337.5	8313.0	8231.4	7980.5	7929.5	7531.7	7036.0	6515.8
10°	7609.2	7613.3	7684.7	7905.0	8178.4	8462.0	8423.2	8394.6	8005.0	7386.9	6679.0
12.5°	6666.7	6703.5	6778.9	7093.1	7556.2	8200.8	8600.7	8629.2	8439.5	7772.4	6870.7
15°	6258.7	6266.9	6328.1	6517.8	6862.6	7658.2	8525.2	8604.8	8802.6	8160.0	7078.8
17.5°	6248.5	6258.7	6285.3	6368.9	6593.3	7231.8	8282.4	8421.2	9076.0	8576.2	7327.7
20°	6632.1	6625.9	6607.6	6562.7	6660.6	7091.1	8058.0	8211.0	9224.9	8982.2	7578.6
22.5°	7327.7	7319.5	7237.9	7052.3	6972.7	7219.6	7947.9	8086.6	9314.7	9343.2	7784.7
25°	8129.4	8186.6	8033.6	7752.0	7556.2	7548.0	8045.8	8143.7	9392.2	9663.5	7925.4
27.5°	9008.7	9027.0	8896.5	8580.3	8296.7	8074.4	8329.4	8402.8	9477.9	9949.1	8005.0
30°	9973.6	9967.5	9818.6	9451.4	9106.6	8786.3	8806.7	8835.3	9677.8	10275.5	8092.7
32.5°	11179.2	11205.8	10940.6	10440.8	10026.6	9584.0	9431.0	9435.0	10038.9	10695.8	8225.3
35°	12817.4	12752.1	12401.2	11689.2	10983.4	10506.0	10244.9	10222.5	10595.8	11260.8	8455.8
37.5°	14378.0	14384.1	14016.9	13233.5	12342.0	11589.3	11220.0	11158.8	11379.2	12044.2	8839.4
40°	15461.2	15481.6	15328.6	14918.6	13974.1	12909.2	12366.5	12303.3	12395.1	13035.7	9341.2
42.5°	16034.5	16091.6	16134.4	16230.3	15514.3	14557.5	13723.1	13717.0	13621.1	14165.8	9922.6
45°	16056.9	16142.6	16403.7	17058.5	17140.1	16438.4	15530.6	15393.9	15024.7	15375.5	10442.8
47.5°	15169.5	15367.4	15922.3	17219.7	18076.5	18309.1	17409.4	17325.8	16289.5	16332.3	10832.4
50°	13100.9	13307.0	14329.0	16393.5	18313.2	19794.2	19471.9	19298.5	17346.2	16964.7	11020.1
52.5°	10979.3	11167.0	11860.6	14426.9	17331.9	20261.4	21210.0	21003.9	18294.8	17185.0	10942.6
55°	7639.8	7890.8	8568.0	10783.5	15071.6	19351.5	21785.2	21742.4	19141.4	17046.3	10822.2
57.5°	3745.5	3994.3	4669.6	6648.4	11165.0	16895.3	20906.0	21132.4	19647.3	16897.4	10724.3
60°	1564.7	1666.7	1899.2	2917.2	6246.5	12768.4	18921.1	19235.2	19337.2	16695.4	10714.1
62.5°	907.8	924.1	948.6	1209.7	2429.6	7319.5	15695.8	16142.6	17707.3	16428.2	10553.0
65°	685.4	691.6	681.4	742.6	1003.7	2776.5	11340.4	11948.3	14779.9	15383.7	9916.5
67.5°	563.0	563.0	536.5	548.8	630.4	1040.4	6260.8	7109.4	10936.5	12644.0	8188.6
70°	448.8	459.0	446.8	430.4	450.8	575.3	2227.7	2762.2	6368.9	7466.4	4775.7
72.5°	340.7	340.7	361.1	348.8	334.6	361.1	777.2	873.1	2556.1	3113.1	1723.8
75°	263.2	271.3	285.6	273.4	253.0	214.2	373.3	395.8	771.1	724.2	385.6
77.5°	134.6	136.7	181.6	199.9	187.7	130.6	163.2	179.5	250.9	224.4	142.8
80°	81.6	85.7	102.0	157.1	124.4	69.4	67.3	71.4	118.3	102.0	59.2
82.5°	34.7	36.7	57.1	57.1	51.0	26.5	26.5	26.5	57.1	53.0	24.5
85°	0.0	0.0	10.2	8.2	8.2	10.2	10.2	10.2	14.3	20.4	12.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	6.1
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: P642919
CATALOG NUMBER: GWS-SA6D-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9
2.5°	6164.9	6034.3	5858.9	5699.8	5485.6	5365.2	5197.9	5061.3	4945.0	4908.3	4891.9
5°	6166.9	5942.5	5567.2	5191.8	4730.8	4367.7	3994.3	3698.5	3455.8	3378.3	3357.9
7.5°	6207.7	5877.3	5269.3	4588.0	3816.9	3180.4	2611.2	2101.2	1864.6	1785.0	1768.7
10°	6262.8	5822.2	4924.6	3863.8	2756.1	1938.0	1372.9	1046.5	891.5	805.8	818.0
12.5°	6334.2	5777.3	4543.1	3080.4	1823.8	1064.9	754.8	632.4	599.8	583.4	575.3
15°	6430.1	5724.3	4069.8	2303.2	1117.9	685.4	581.4	548.8	536.5	528.4	526.3
17.5°	6528.0	5663.1	3588.4	1619.8	742.6	569.2	522.2	505.9	497.8	491.6	489.6
20°	6632.1	5559.0	3023.3	1115.9	585.5	512.0	481.4	463.1	452.9	442.7	440.6
22.5°	6676.9	5391.7	2482.7	781.3	520.2	471.2	432.5	410.0	397.8	389.6	389.6
25°	6634.1	5120.4	1923.7	593.6	473.3	426.4	387.6	363.1	352.9	344.8	344.8
27.5°	6519.9	4771.6	1403.5	491.6	422.3	379.4	342.7	320.3	312.1	308.0	308.0
30°	6393.4	4330.9	989.4	422.3	365.2	330.5	299.9	285.6	283.6	279.5	279.5
32.5°	6285.3	3918.9	681.4	371.3	322.3	287.6	267.2	261.1	263.2	259.1	261.1
35°	6226.1	3514.9	505.9	330.5	287.6	255.0	244.8	244.8	244.8	242.8	242.8
37.5°	6250.6	3117.1	412.1	301.9	257.0	232.6	222.4	226.4	230.5	230.5	230.5
40°	6373.0	2764.2	365.2	275.4	230.5	212.2	204.0	210.1	216.2	220.3	220.3
42.5°	6528.0	2478.6	330.5	253.0	212.2	191.8	187.7	193.8	199.9	204.0	204.0
45°	6625.9	2191.0	295.8	224.4	193.8	169.3	169.3	177.5	175.4	177.5	177.5
47.5°	6670.8	1962.5	261.1	193.8	165.2	146.9	148.9	153.0	148.9	153.0	153.0
50°	6560.7	1732.0	230.5	161.2	136.7	128.5	132.6	130.6	130.6	138.7	138.7
52.5°	6358.7	1560.6	204.0	136.7	116.3	114.2	118.3	110.2	112.2	112.2	110.2
55°	*6209.8*	*1462.7*	*181.6*	*118.3*	*100.0*	*102.0*	*100.0*	*85.7*	*77.5*	*69.4*	*67.3*
57.5°	6136.3	1423.9	165.2	106.1	89.8	89.8	81.6	59.2	44.9	34.7	30.6
60°	6120.0	1377.0	148.9	91.8	79.6	75.5	59.2	34.7	22.4	16.3	14.3
62.5°	5965.0	1262.8	134.6	73.4	69.4	61.2	36.7	20.4	12.2	8.2	6.1
65°	5457.0	1038.4	120.4	57.1	53.0	44.9	22.4	12.2	6.1	2.0	0.0
67.5°	4341.1	736.4	106.1	42.8	36.7	28.6	14.3	8.2	2.0	0.0	0.0
70°	2503.1	397.8	87.7	30.6	24.5	18.4	10.2	4.1	0.0	0.0	0.0
72.5°	836.4	185.6	67.3	20.4	18.4	14.3	6.1	2.0	0.0	0.0	0.0
75°	183.6	110.2	44.9	14.3	12.2	10.2	4.1	0.0	0.0	0.0	0.0
77.5°	69.4	77.5	22.4	10.2	8.2	6.1	2.0	0.0	0.0	0.0	0.0
80°	26.5	51.0	10.2	6.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	20.4	6.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	10.2	4.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	2.0	2.0	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

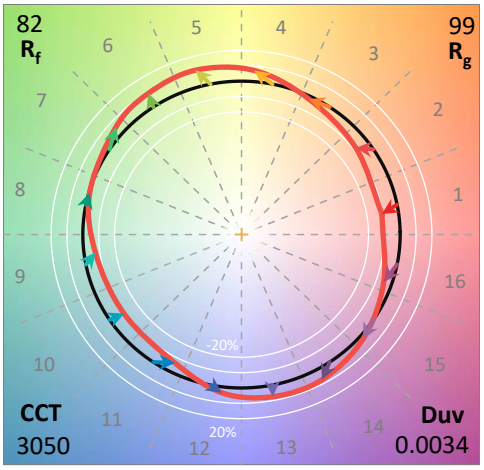
Test Information

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

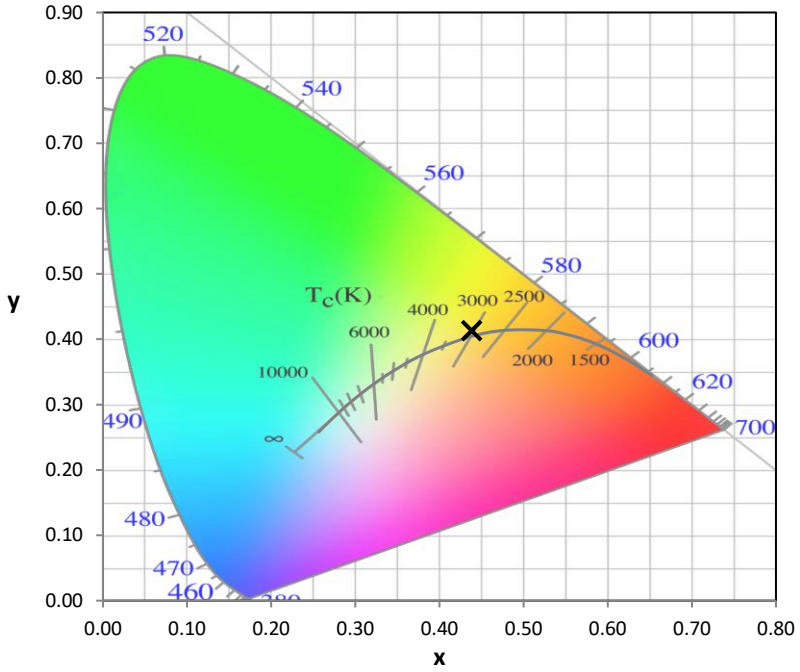
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

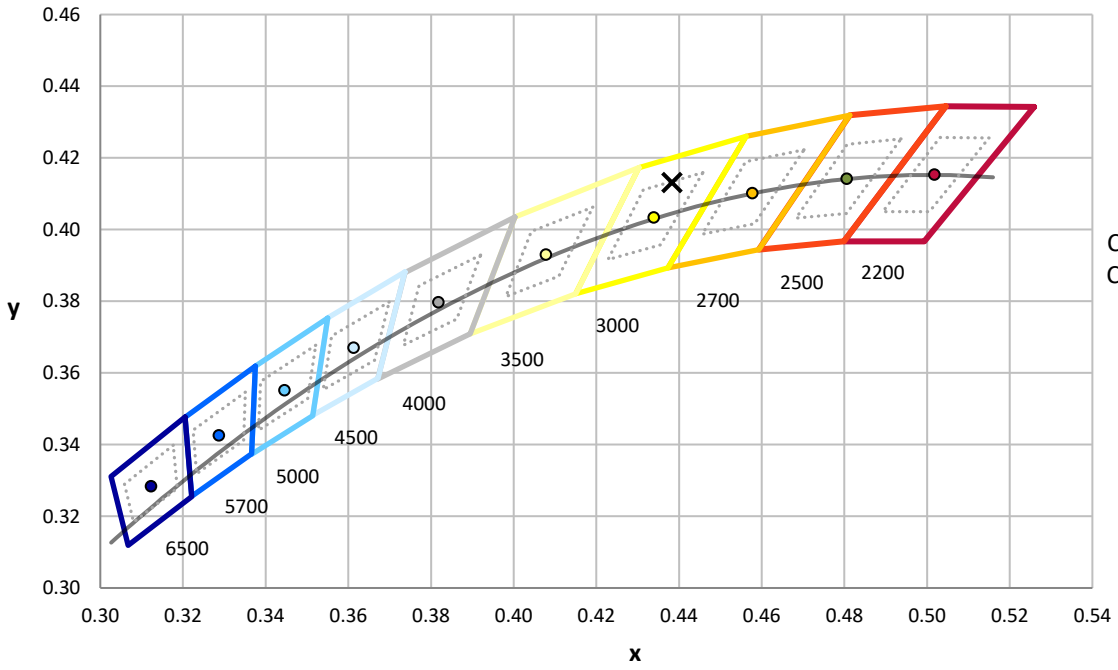
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

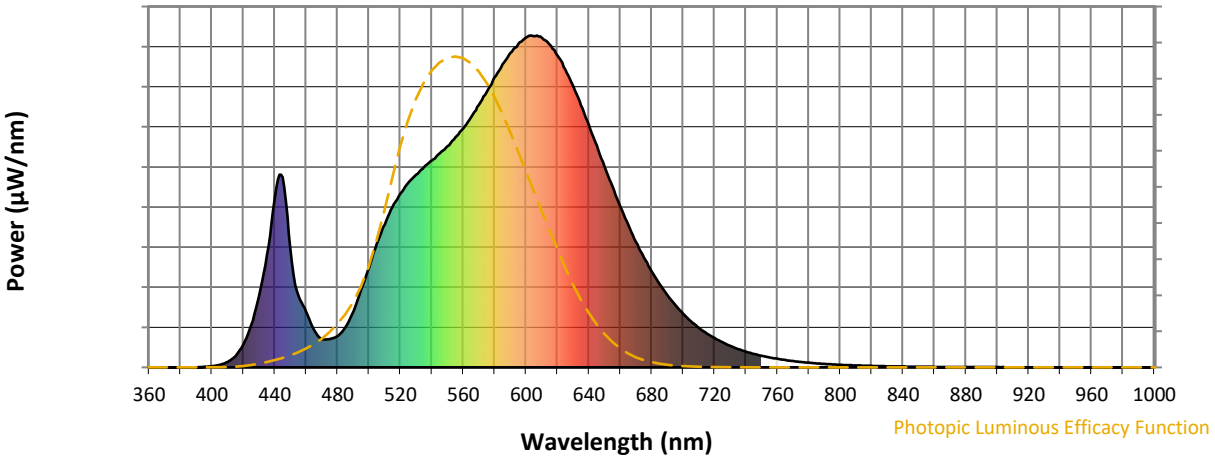


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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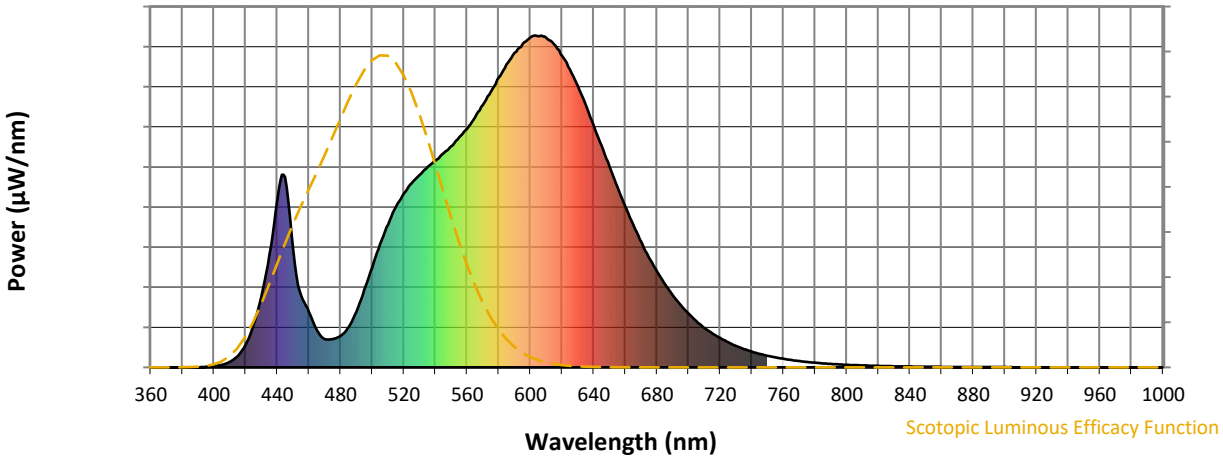
Scotopic Flux vs. Wavelength



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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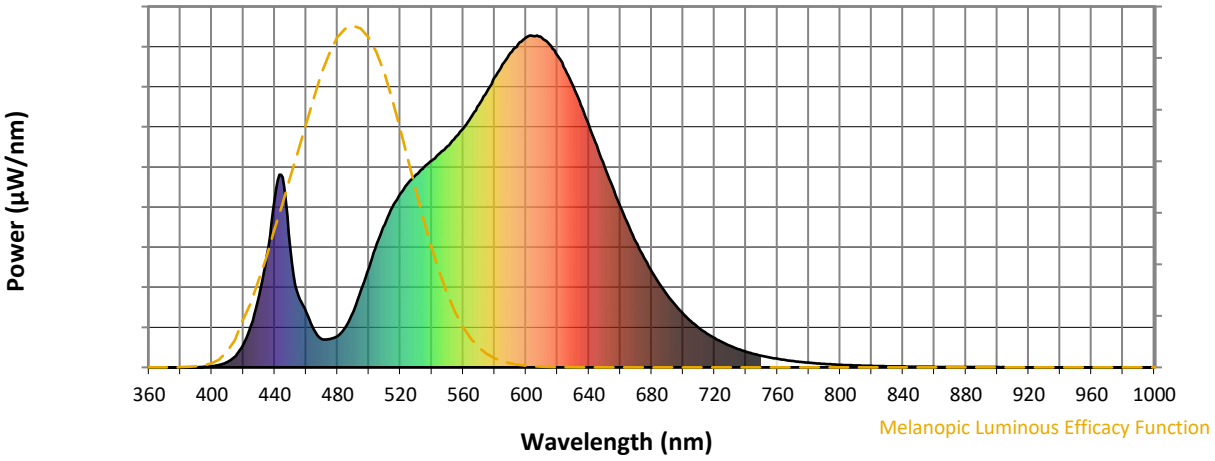
Melanopic Flux vs. Wavelength



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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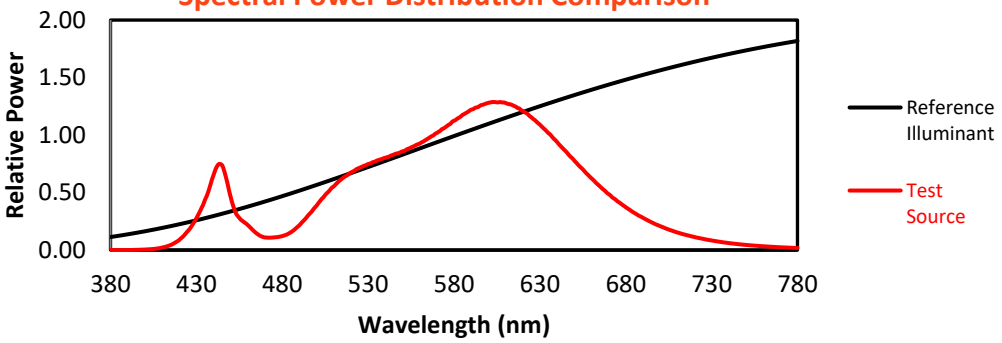
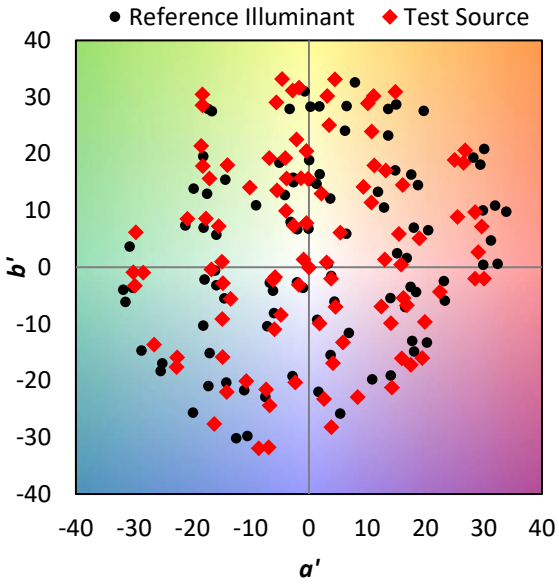
Summary

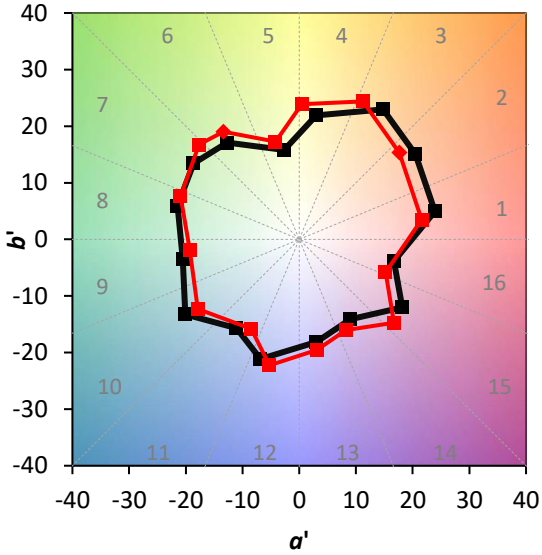
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

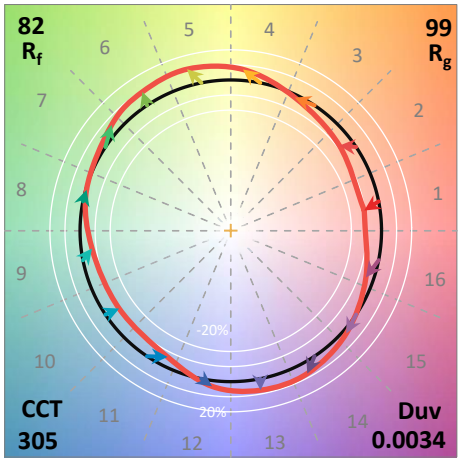
Spectral Power Distribution Comparison

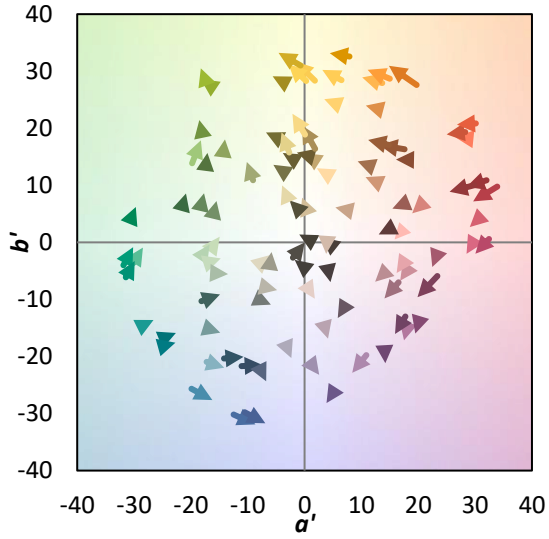


Color Vector Graphics









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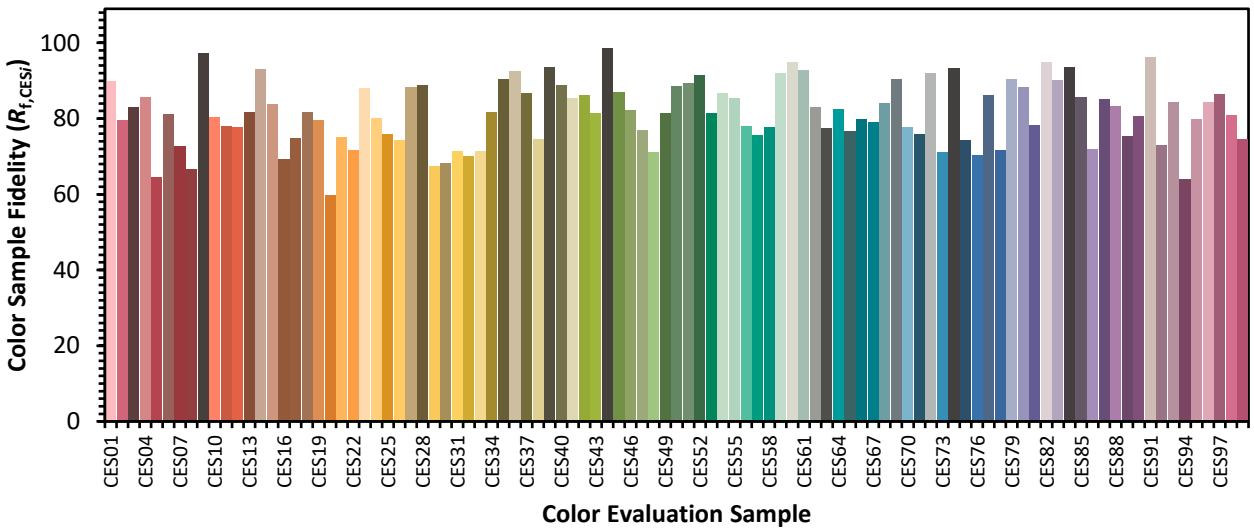
Individual Sample Fidelity Index ($R_{f,i}$)

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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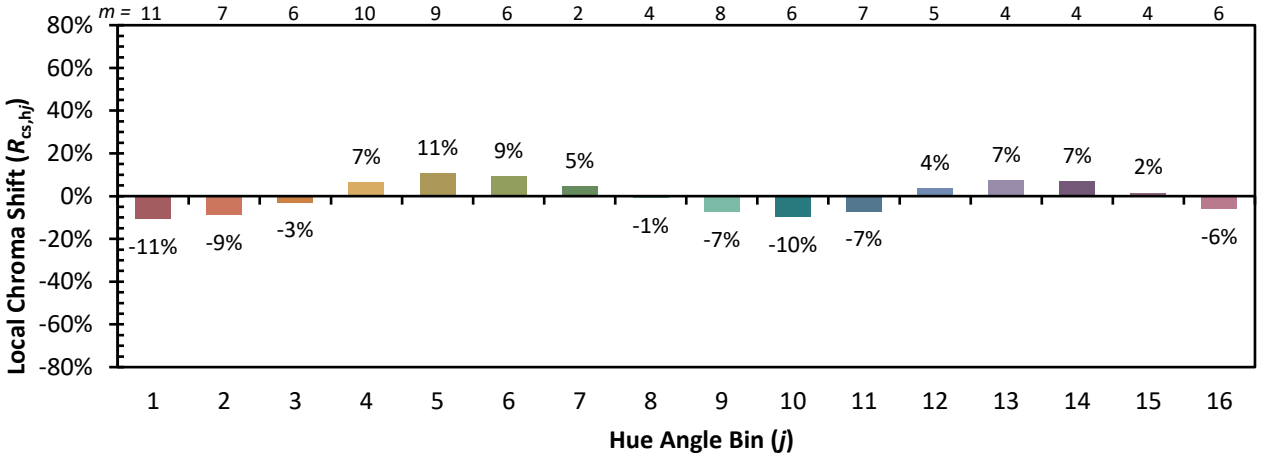
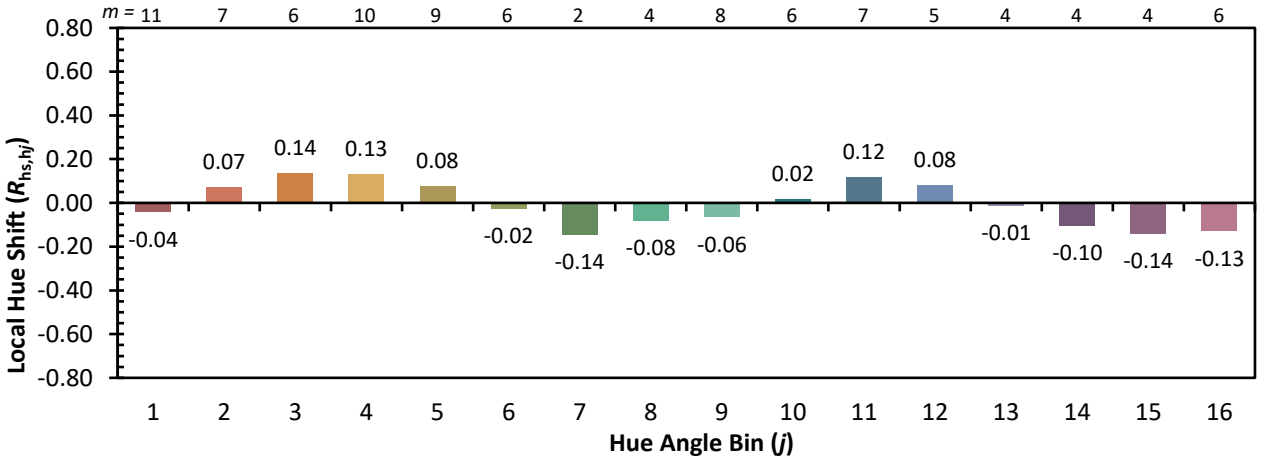
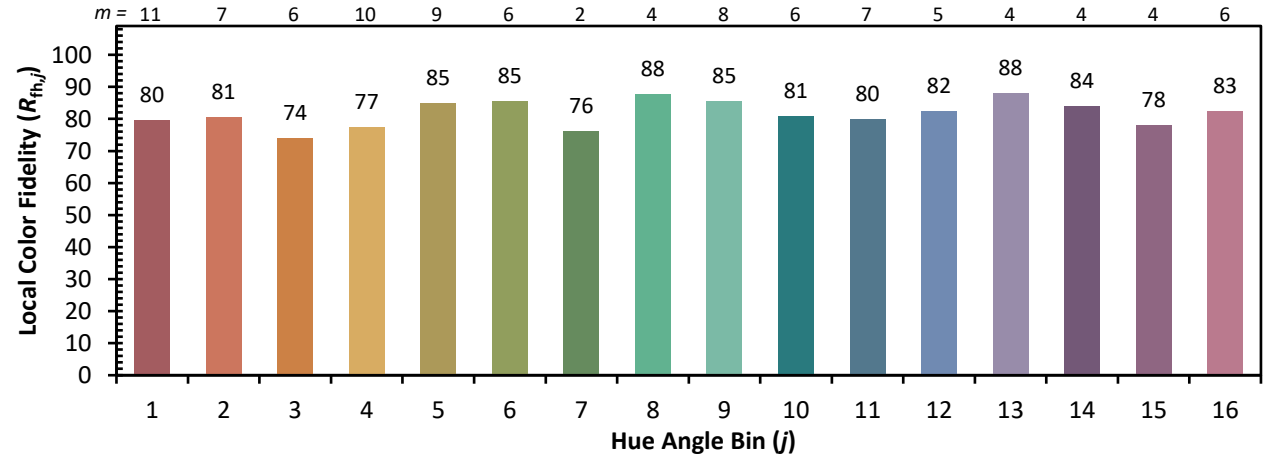
Color Rendition by Hue-Angle Bin







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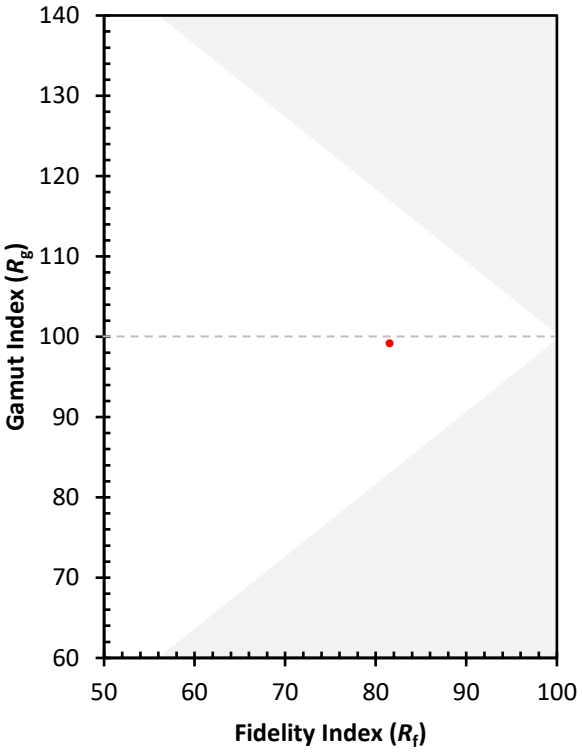
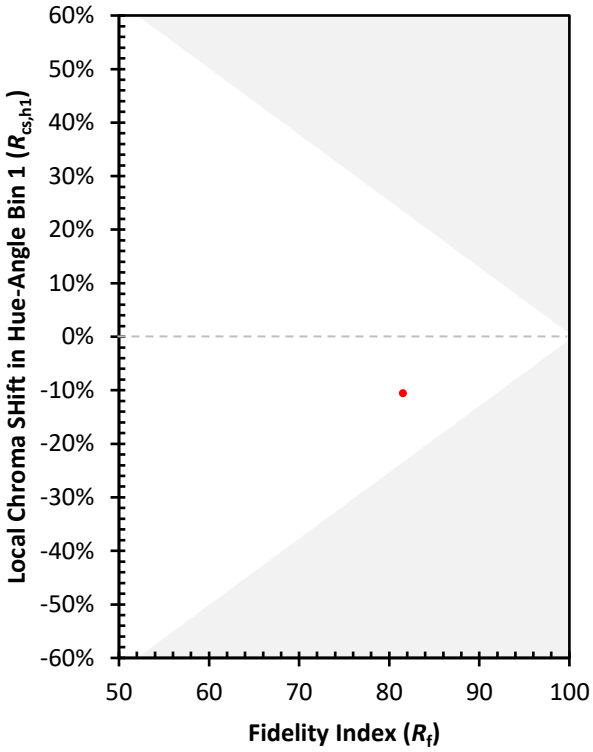
Measure Comparisons





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