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: P641464

Luminaire Tested: GWS-SA5F-830-U-T2R-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:	P641464
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5F-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26740.1 lumens
Efficiency:	N/A
Efficacy:	86.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	310.3
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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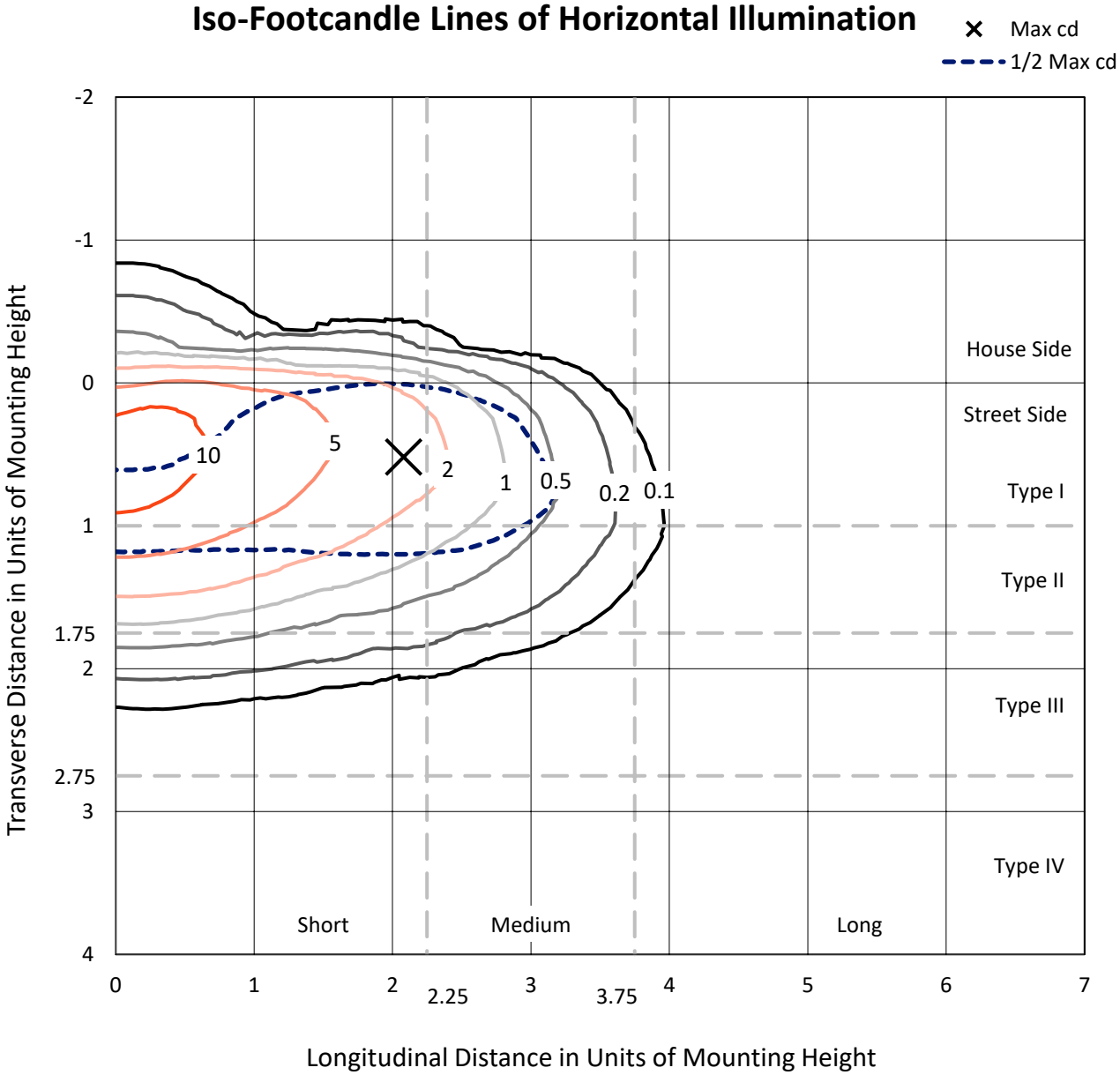
REPORT NUMBER: P641464
CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Short - N/A

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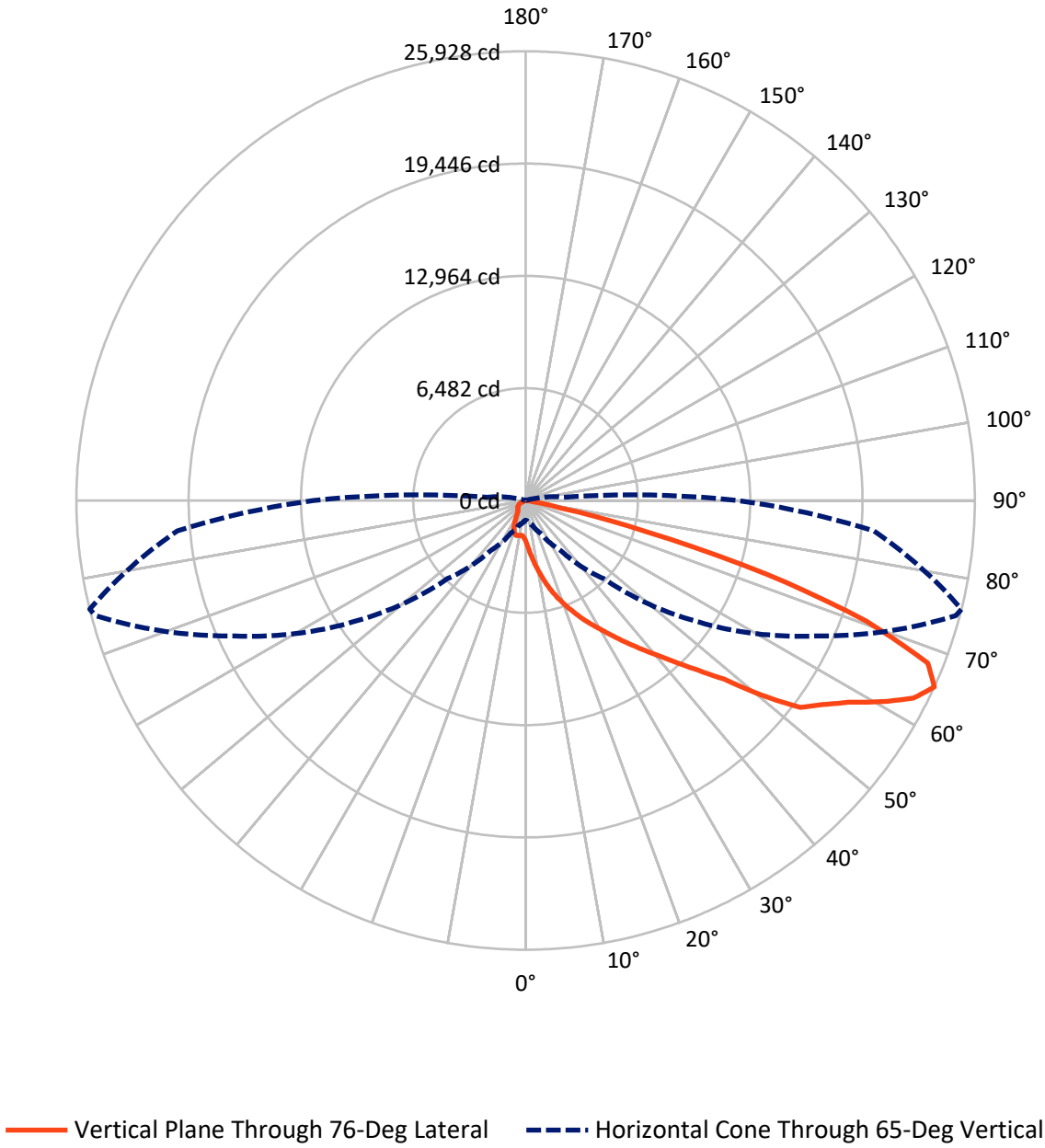
Luminous Intensity Polar Plot



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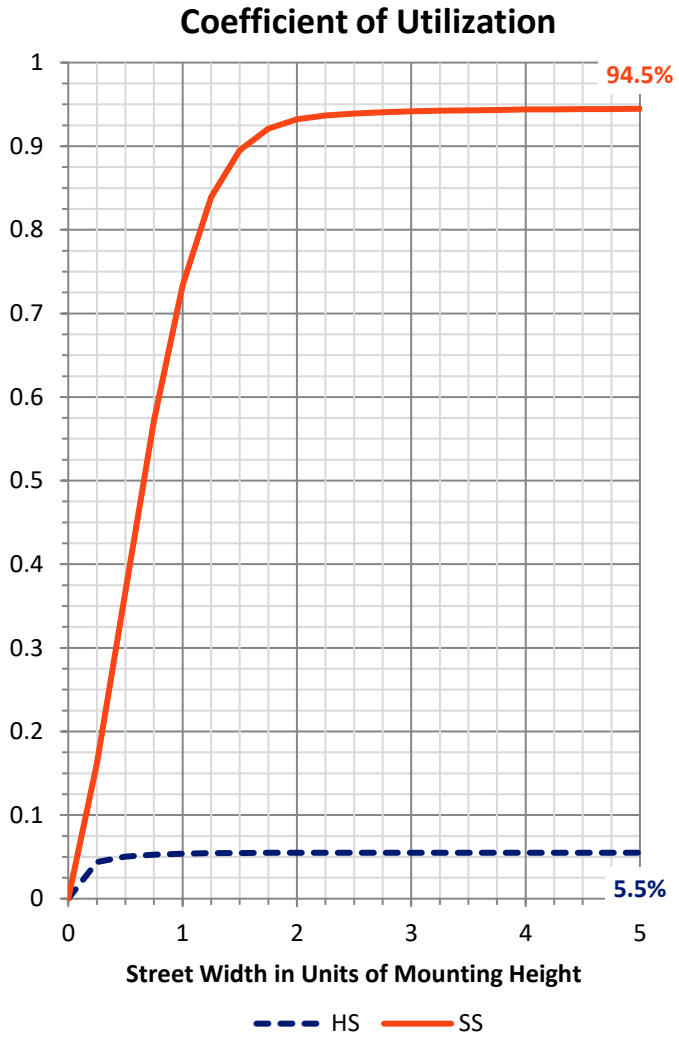
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.6	0.0	1478.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	25261.5	0.0	25261.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	26740.1	0.0	26740.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	1.1
10°-20°	1092.9	4.1
20°-30°	2229.6	8.3
30°-40°	3965.4	14.8
40°-50°	5861.9	21.9
50°-60°	6711.4	25.1
60°-70°	5120.5	19.1
70°-80°	1434.3	5.4
80°-90°	36.1	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°	26740.1	100.0
0°-180°	26740.1	100.0



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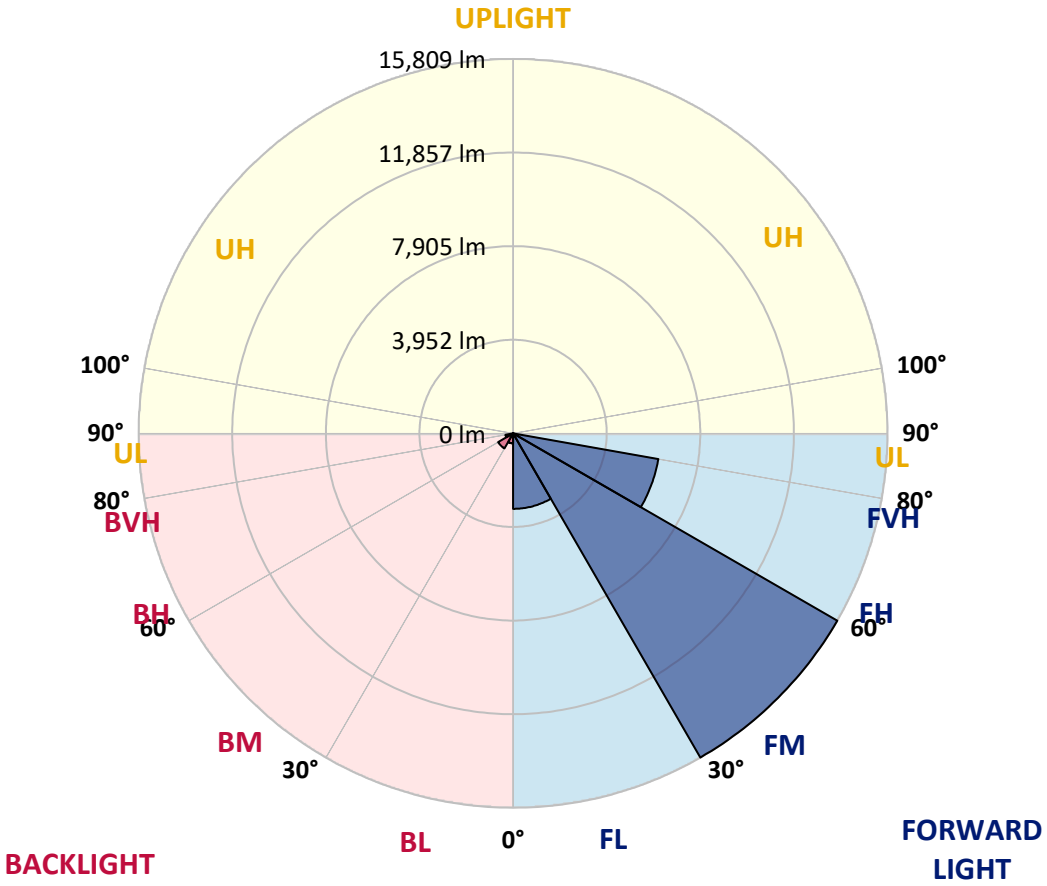
REPORT NUMBER: P641464
CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3188.6	11.9			
FM	(30°-60°)	15809.2	59.1			
FH	(60°-80°)	6229.8	23.3			G3/7500
FVH	(80°-90°)	34.0	0.1			G1/100
BL	(0°-30°)	421.9	1.6	B1/500		
BM	(30°-60°)	729.5	2.7	B1/1000		
BH	(60°-80°)	325.0	1.2	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G3
Type II Short



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REPORT NUMBER: P641464
CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	*2367.5*	2367.5
2.5°	3648.7	3703.3	3660.6	3589.2	3451.4	3318.3	3147.1	2911.8	2724.0	*2700.3*	2524.4
5°	4927.5	4922.7	4830.0	4737.3	4592.3	4364.1	4019.5	3582.1	3161.4	*3125.7*	2731.2
7.5°	5688.1	5695.2	5643.0	5571.6	5429.0	5193.7	4834.8	4307.1	3691.5	*3620.1*	3014.0
10°	6327.5	6325.1	6287.1	6253.8	6125.5	5968.6	5583.5	5003.5	4261.9	*4150.2*	3330.2
12.5°	6807.7	6824.3	6843.3	6876.6	6821.9	6667.4	6303.8	5671.5	4839.5	*4715.9*	3691.5
15°	7188.0	7192.7	7264.1	7392.4	7437.6	7356.8	7026.4	6318.0	5410.0	*5303.0*	4107.4
17.5°	7302.1	7311.6	7432.8	7668.1	7905.8	7951.0	7701.4	6969.3	5971.0	*5856.9*	4511.5
20°	7542.2	7563.6	7653.9	7860.7	8160.2	8402.6	8305.2	7627.7	6531.9	*6382.2*	4925.1
22.5°	8298.0	8309.9	8279.0	8305.2	8459.7	8740.2	8799.6	8264.8	7107.2	*6947.9*	5372.0
25°	9598.3	9603.0	9386.7	9182.3	9065.8	9118.1	9248.8	8851.9	7677.7	*7520.8*	5788.0
27.5°	10948.4	10965.0	10705.9	10358.9	9942.9	9705.2	9667.2	9389.1	8252.9	*8079.4*	6199.2
30°	12220.1	12220.1	11946.7	11523.6	10967.4	10503.9	10230.5	9931.0	8868.5	*8678.4*	6619.9
32.5°	13363.4	13353.9	13004.5	12545.7	11996.6	11488.0	10912.7	10496.8	9553.1	*9341.5*	7104.8
35°	14307.1	14283.3	13886.3	13446.6	12859.5	12481.5	11839.7	11105.3	10294.7	*10083.2*	7604.0
37.5°	15020.1	14994.0	14630.3	14164.4	13620.1	13375.3	12838.1	11835.0	11076.7	*10884.2*	8157.8
40°	15407.6	15355.3	15103.3	14756.3	14299.9	14086.0	13862.6	12740.6	11996.6	*11756.6*	8811.5
42.5°	15521.7	15459.9	15293.5	15131.9	14856.1	14687.4	14927.4	13762.7	13006.8	*12800.0*	9557.8
45°	15184.2	15148.5	15134.2	15250.7	15300.6	15348.2	15940.0	14894.2	14121.7	*13964.8*	10496.8
47.5°	14371.2	14361.7	14487.7	14972.6	15500.3	16001.8	17040.6	16289.5	15566.9	*15398.1*	11808.8
50°	12869.0	12966.4	13318.2	14169.2	15224.6	16372.7	18069.8	18224.3	17905.8	*17658.6*	13520.3
52.5°	10520.5	10708.3	11497.5	12790.5	14307.1	16268.1	18545.2	19774.1	20099.8	*19843.0*	14746.8
55°	8255.3	8431.2	9134.7	10774.9	12797.7	15471.8	18566.6	20308.9	21019.7	*20782.0*	15576.4
57.5°	6149.3	6310.9	6950.3	8519.1	10744.0	13905.3	18057.9	20606.1	22110.7	*21958.6*	16886.1
60°	4019.5	4178.7	4756.3	6127.9	8333.7	11623.4	16805.3	20544.3	23596.3	*23582.0*	18495.3
62.5°	2229.6	2355.6	2773.9	3843.6	5816.5	9001.6	14837.1	19923.9	25034.4	*25124.7*	19821.7
65°	*1141.0*	*1221.8*	*1476.1*	*2113.1*	*3520.3*	*6382.2*	*12248.6*	*18502.4*	*25699.9*	*25928.1*	*20171.1*
67.5°	746.4	772.5	834.3	1098.2	1884.9	4014.7	9217.9	16222.9	24763.4	*25029.6*	18999.2
70°	606.1	627.5	663.2	732.1	972.2	2132.2	6054.2	12956.9	20691.6	*20872.3*	15129.5
72.5°	444.5	473.0	542.0	587.1	701.2	1169.5	3149.5	8504.8	14209.6	*14528.1*	9507.9
75°	328.0	344.7	401.7	463.5	572.9	739.2	1205.1	4471.1	7337.7	*7152.3*	3993.3
77.5°	197.3	209.2	256.7	297.1	408.8	461.1	420.7	1652.0	2232.0	*2098.9*	965.1
80°	97.5	109.3	168.8	223.4	261.5	185.4	175.9	461.1	496.8	*496.8*	242.5
82.5°	33.3	42.8	90.3	147.4	128.4	71.3	83.2	118.8	133.1	*140.2*	71.3
85°	0.0	0.0	21.4	42.8	19.0	9.5	21.4	26.1	33.3	*35.7*	23.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.1	*9.5*	9.5
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: P641464
CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	2429.3	2317.6	2148.8	1996.7	1880.2	1770.9	1687.7	1621.1	1609.2	1571.2	1575.9
5°	2538.6	2336.6	2025.2	1785.1	1616.3	1502.3	1407.2	1335.9	1305.0	1274.1	1250.3
7.5°	2707.4	2415.0	1977.6	1685.3	1488.0	1312.1	1164.7	1045.9	988.8	953.2	929.4
10°	2914.2	2524.4	1980.0	1625.9	1333.5	1064.9	862.8	732.1	670.3	651.3	648.9
12.5°	3161.4	2662.2	1999.0	1528.4	1110.1	791.5	639.4	580.0	561.0	544.3	544.3
15°	3422.9	2816.7	1999.0	1350.1	846.2	618.0	553.8	515.8	492.0	482.5	477.8
17.5°	3698.6	2961.7	1951.5	1105.3	648.9	544.3	492.0	456.4	437.4	423.1	418.3
20°	3993.3	3099.6	1832.7	846.2	556.2	487.3	437.4	401.7	382.7	368.4	368.4
22.5°	4292.8	3227.9	1640.1	651.3	492.0	432.6	385.1	351.8	332.8	318.5	318.5
25°	4570.9	3313.5	1392.9	537.2	444.5	385.1	342.3	309.0	287.6	278.1	273.4
27.5°	4830.0	3368.2	1119.6	473.0	399.3	344.7	299.5	268.6	252.0	244.8	240.1
30°	5098.6	3382.4	855.7	430.2	361.3	304.3	261.5	237.7	223.4	213.9	213.9
32.5°	5360.1	3365.8	653.7	394.6	328.0	268.6	232.9	211.6	199.7	192.5	190.2
35°	5626.3	3289.7	530.1	363.7	294.7	235.3	206.8	190.2	183.0	173.5	173.5
37.5°	5916.3	3187.5	461.1	332.8	261.5	211.6	185.4	173.5	164.0	156.9	154.5
40°	6277.6	3068.7	423.1	306.6	230.6	190.2	166.4	154.5	147.4	140.2	137.9
42.5°	6705.5	2952.2	404.1	278.1	206.8	168.8	149.7	135.5	128.4	118.8	116.5
45°	7311.6	2926.1	382.7	247.2	185.4	152.1	130.7	116.5	107.0	99.8	97.5
47.5°	8286.2	2999.8	347.0	213.9	164.0	133.1	111.7	99.8	87.9	80.8	76.1
50°	9253.6	2980.7	311.4	185.4	145.0	114.1	95.1	83.2	71.3	64.2	61.8
52.5°	9781.3	2890.4	278.1	164.0	126.0	97.5	80.8	66.6	59.4	52.3	49.9
55°	10259.1	2854.8	244.8	142.6	107.0	85.6	66.6	54.7	49.9	42.8	40.4
57.5°	11195.6	2937.9	216.3	123.6	92.7	73.7	57.0	45.2	40.4	33.3	30.9
60°	12174.9	2947.5	185.4	107.0	80.8	61.8	45.2	35.7	30.9	23.8	21.4
62.5°	12686.0	2707.4	152.1	90.3	66.6	52.3	38.0	28.5	23.8	14.3	14.3
65°	*12258.1*	*2189.2*	*128.4*	*73.7*	*52.3*	*40.4*	*28.5*	*21.4*	*14.3*	*7.1*	*2.4*
67.5°	10848.5	1556.9	107.0	59.4	38.0	28.5	21.4	14.3	2.4	0.0	0.0
70°	7943.9	889.0	83.2	42.8	28.5	19.0	14.3	7.1	0.0	0.0	0.0
72.5°	4882.3	475.4	61.8	28.5	21.4	14.3	11.9	4.8	0.0	0.0	0.0
75°	1851.7	228.2	38.0	19.0	16.6	11.9	7.1	2.4	0.0	0.0	0.0
77.5°	501.5	111.7	21.4	14.3	11.9	7.1	4.8	0.0	0.0	0.0	0.0
80°	130.7	52.3	14.3	9.5	7.1	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	45.2	23.8	7.1	7.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	19.0	9.5	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	2.4	2.4	2.4	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

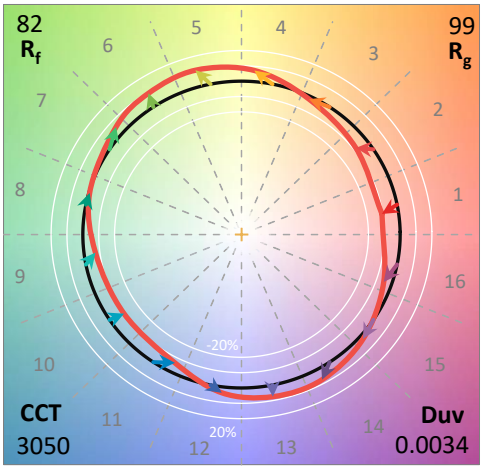
Test Information

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

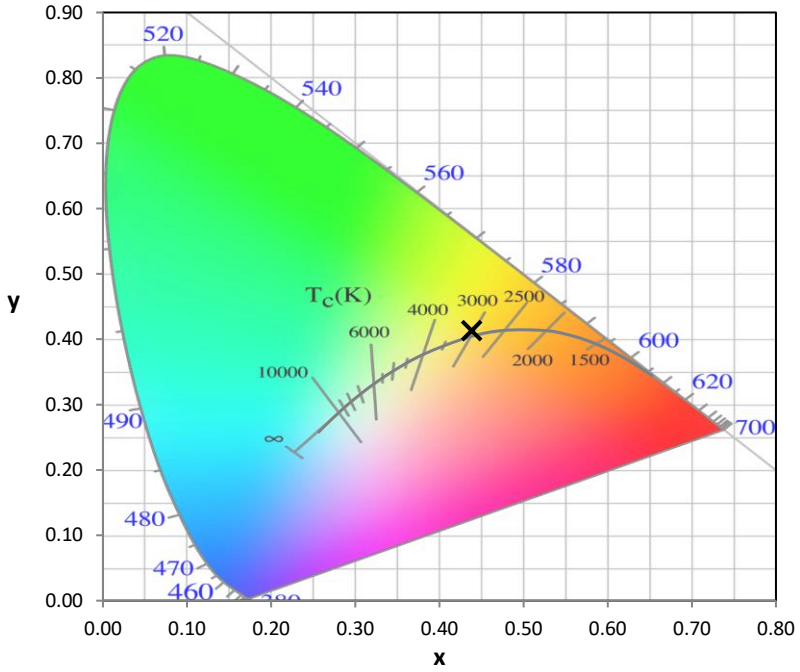
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

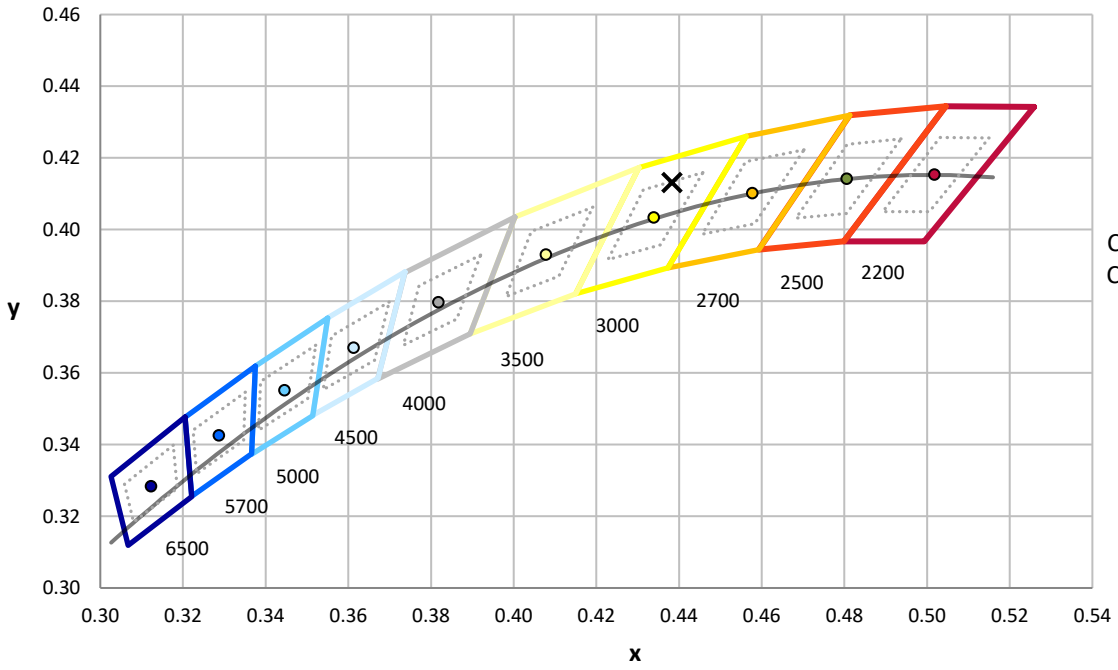
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

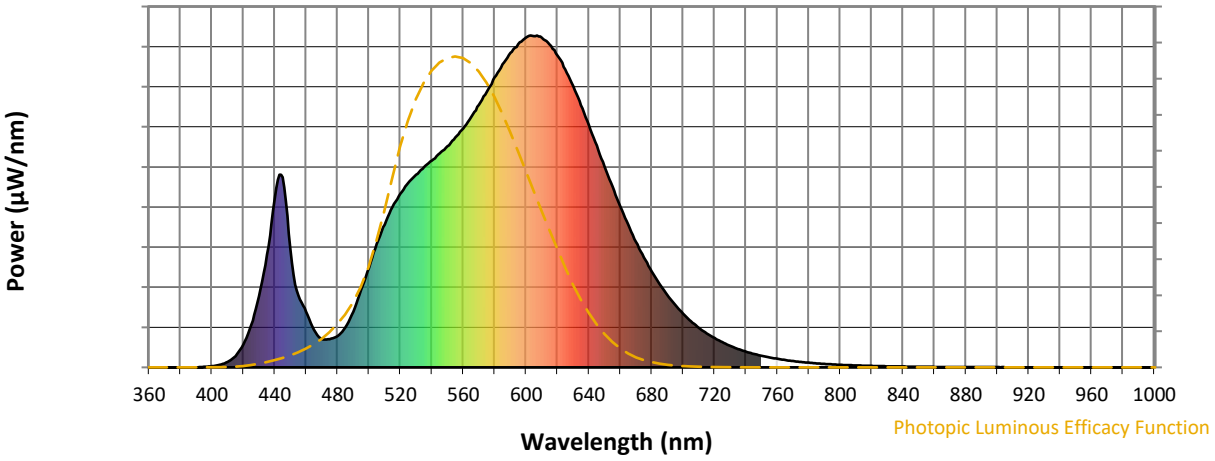


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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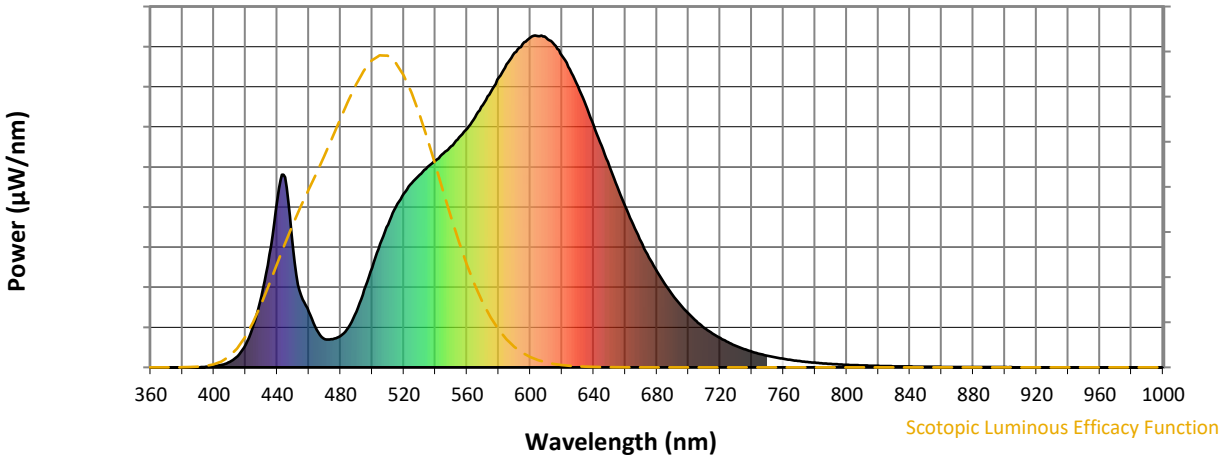
Scotopic Flux vs. Wavelength



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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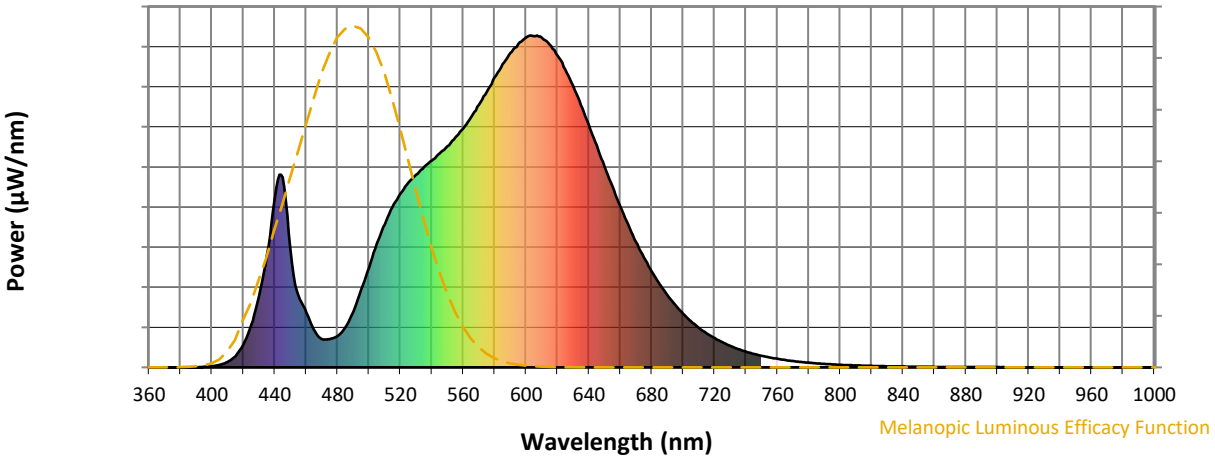
Melanopic Flux vs. Wavelength



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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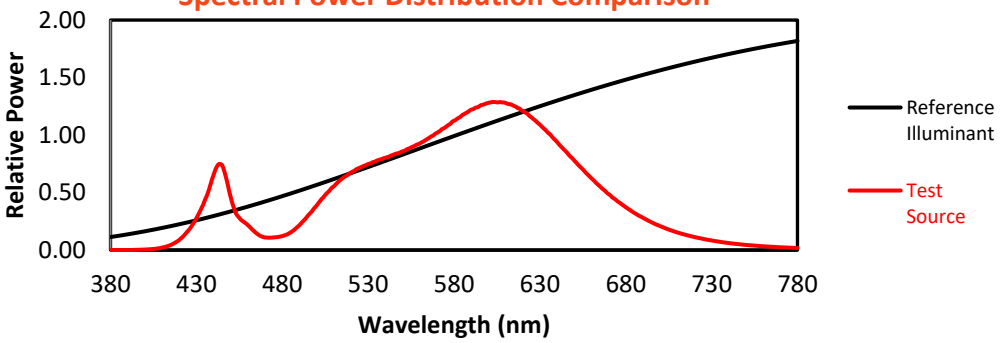
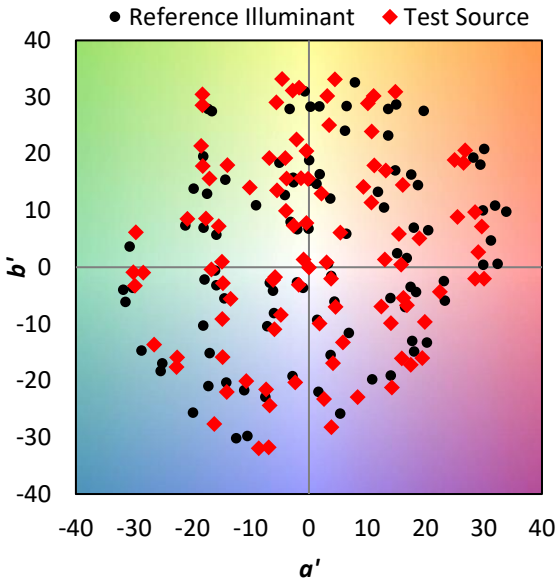
Summary

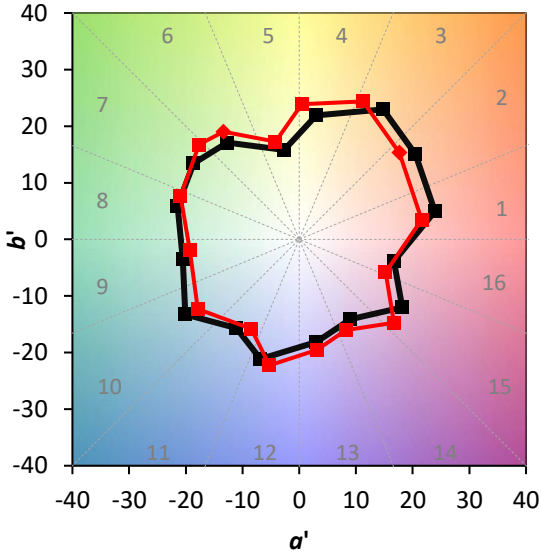
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

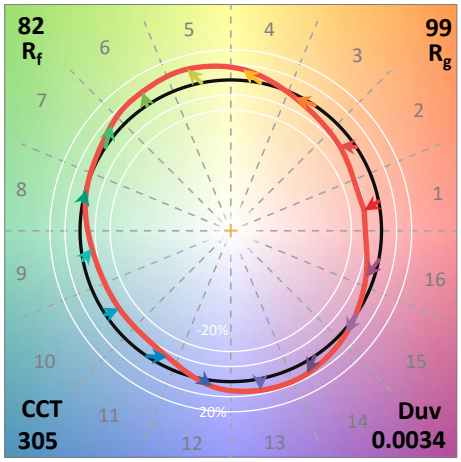
Spectral Power Distribution Comparison

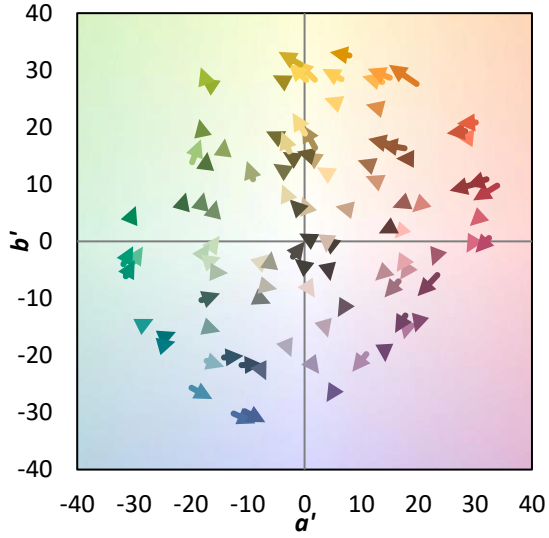


Color Vector Graphics









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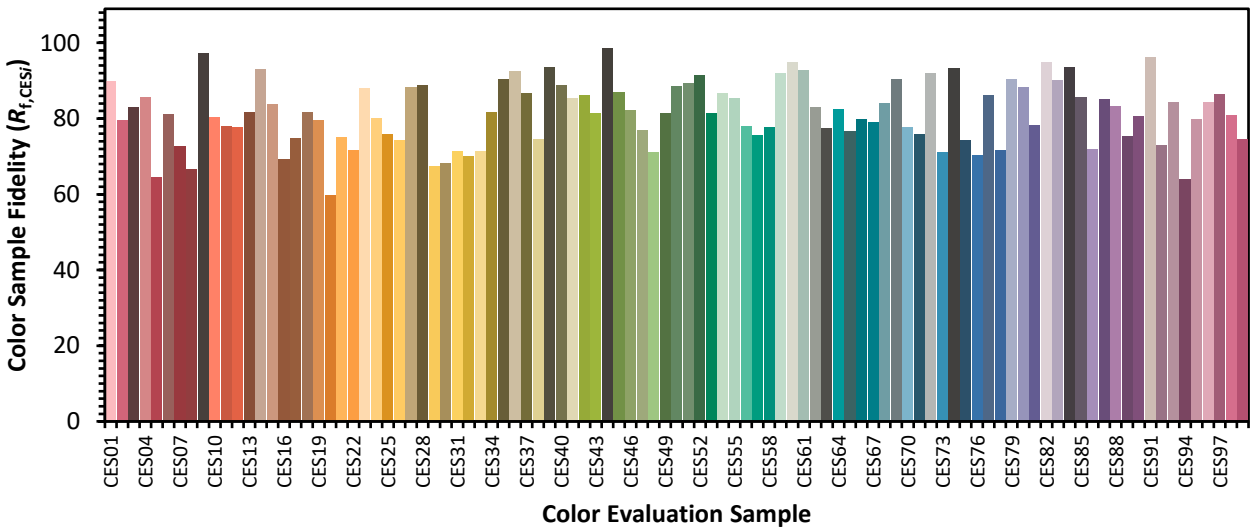
Individual Sample Fidelity Index ($R_{f,i}$)

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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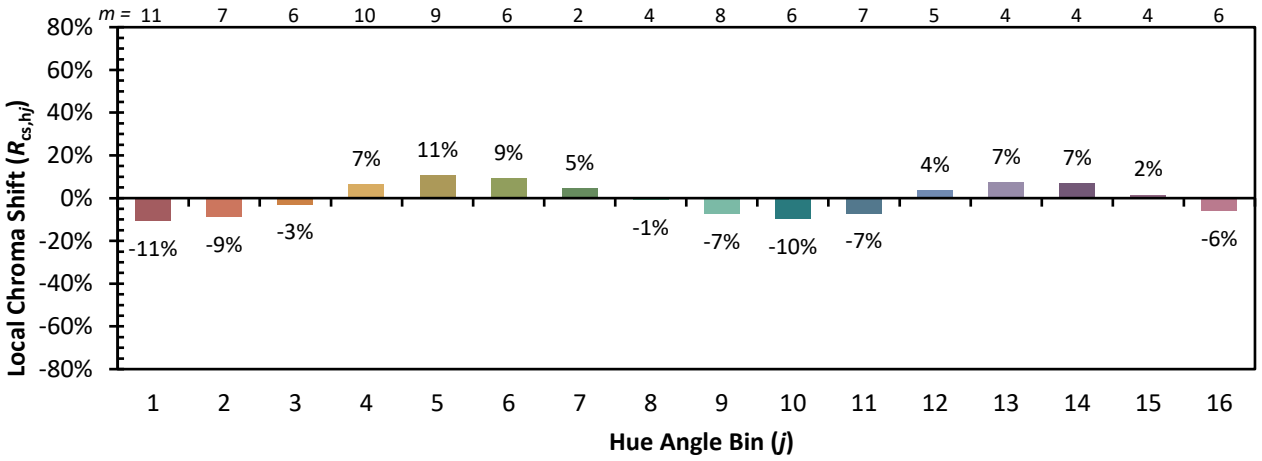
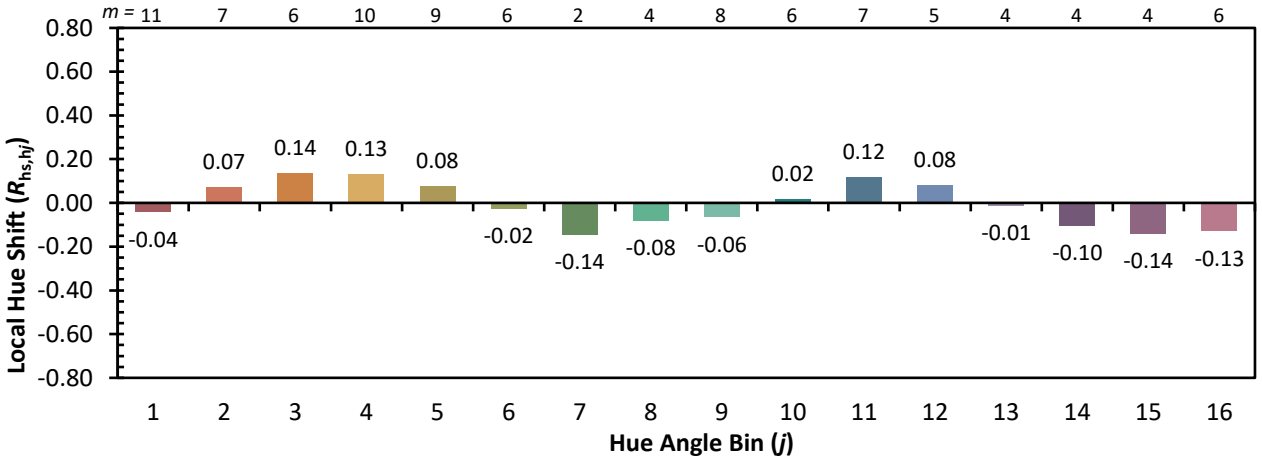
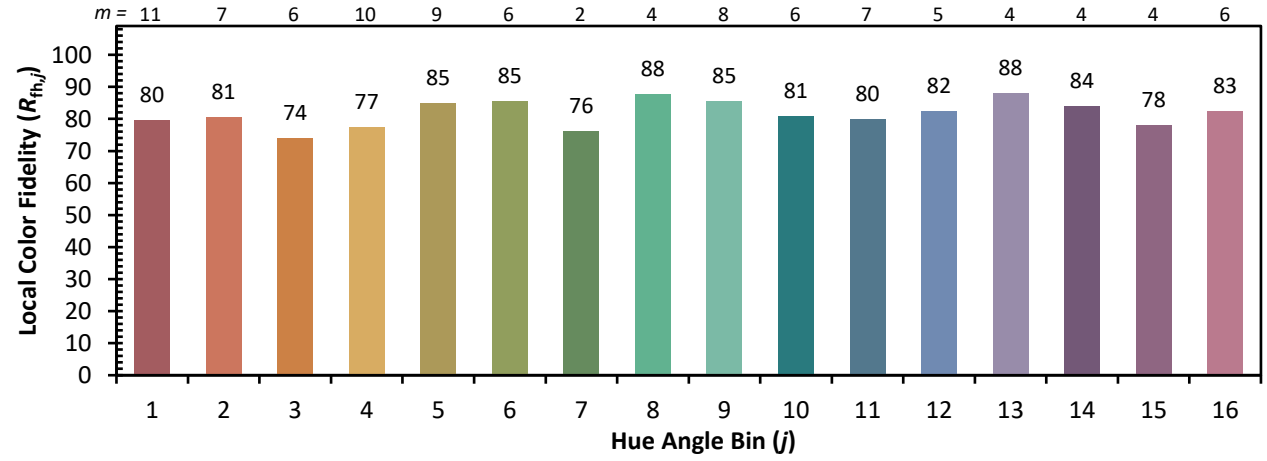
Color Rendition by Hue-Angle Bin







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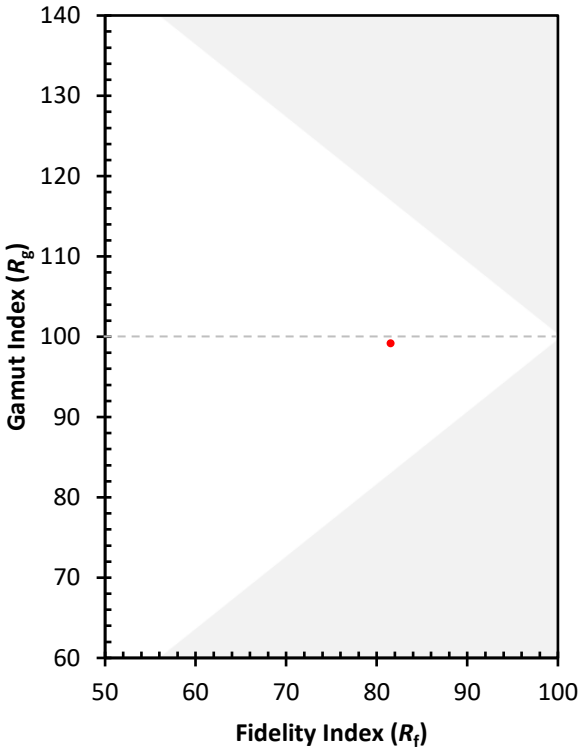
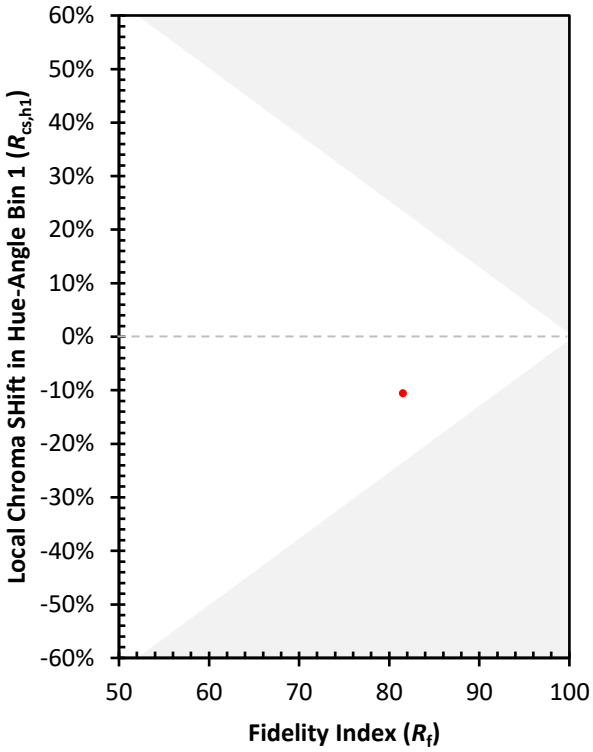
Measure Comparisons





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