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: P629092

Luminaire Tested: GWS-SA1A-830-U-T2R-W

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:	P629092
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T2R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2303.5 lumens
Efficiency:	N/A
Efficacy:	116.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	19.7
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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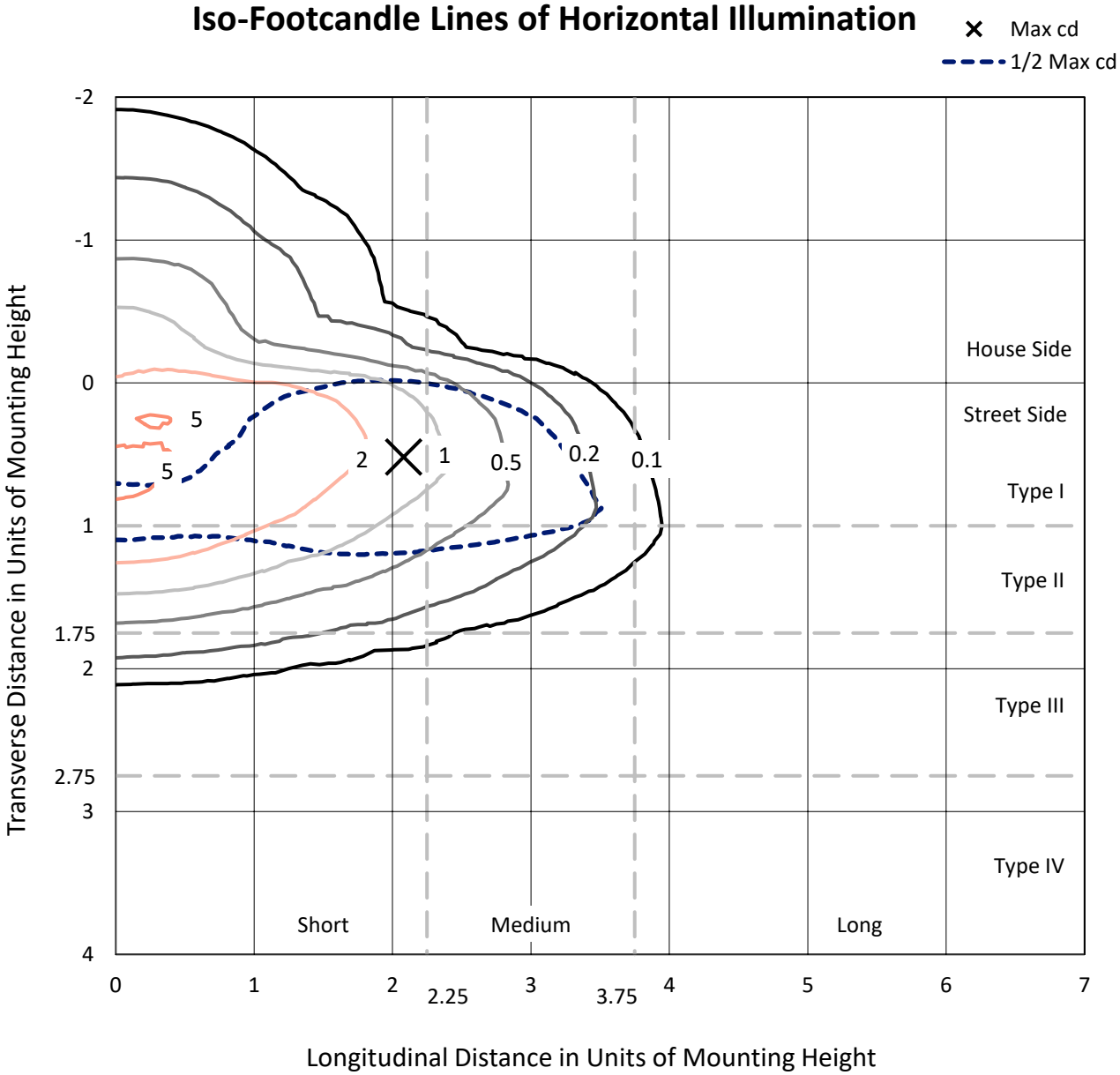
REPORT NUMBER: P629092
CATALOG NUMBER: GWS-SA1A-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Short - N/A

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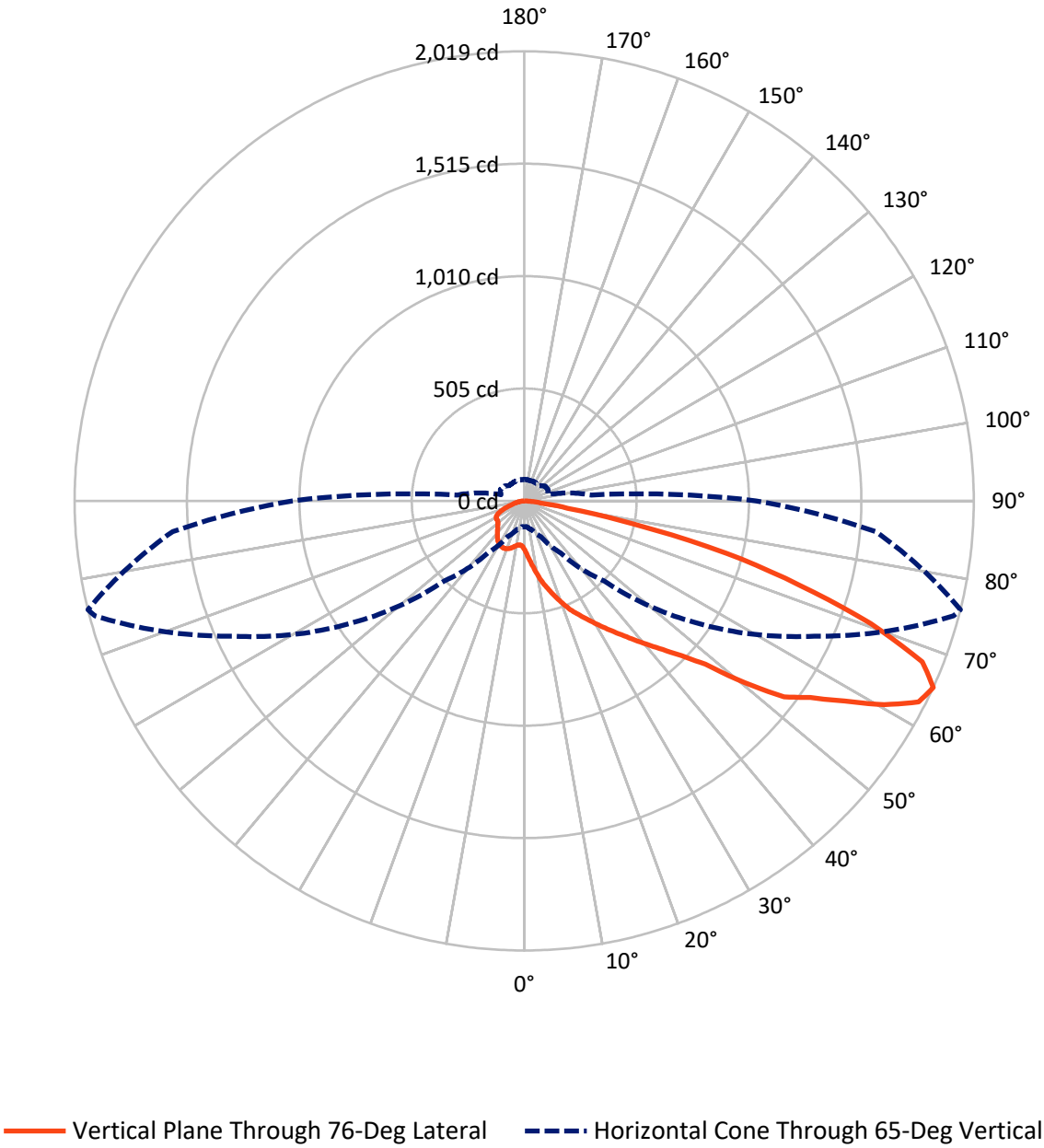
Luminous Intensity Polar Plot



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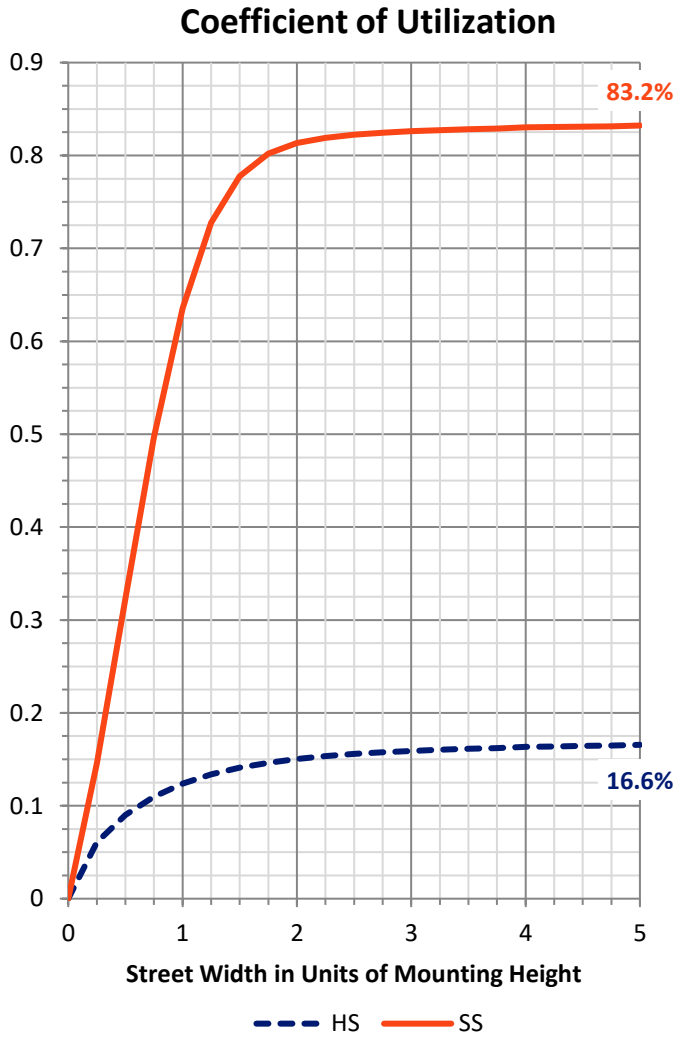
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.0	0.0	385.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	1918.5	0.0	1918.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	2303.5	0.0	2303.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	1.1
10°-20°	98.7	4.3
20°-30°	192.4	8.4
30°-40°	321.7	14.0
40°-50°	460.7	20.0
50°-60°	545.3	23.7
60°-70°	453.5	19.7
70°-80°	185.6	8.1
80°-90°	19.8	0.9
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°	2303.5	100.0
0°-180°	2303.5	100.0



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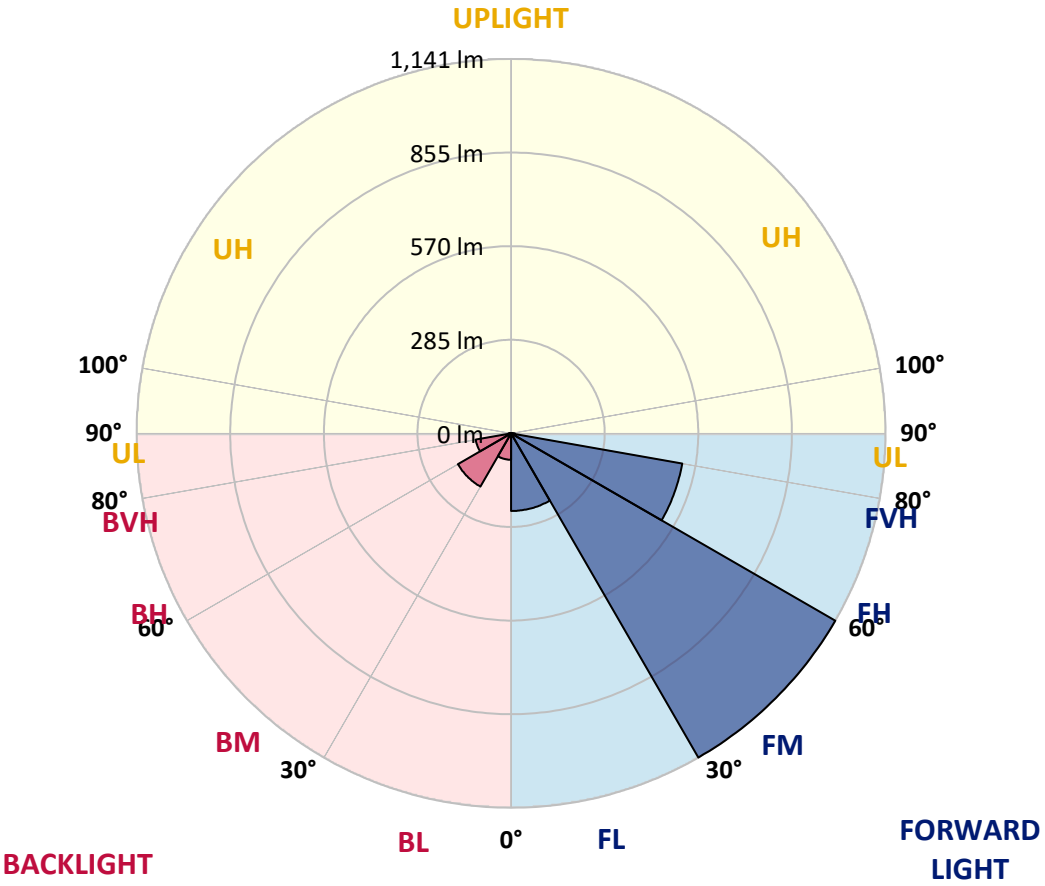
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	236.4	10.3			
FM	(30°-60°)	1140.6	49.5			
FH	(60°-80°)	529.6	23.0			G0/660
FVH	(80°-90°)	11.8	0.5			G1/100
BL	(0°-30°)	80.5	3.5	B0/110		
BM	(30°-60°)	187.1	8.1	B0/220		
BH	(60°-80°)	109.4	4.7	B0/110		G0/110
BVH	(80°-90°)	8.0	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P629092
CATALOG NUMBER: GWS-SA1A-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	*218.1*	218.1
2.5°	305.7	306.9	303.2	301.9	293.1	281.3	271.4	256.5	242.7	*240.6*	228.3
5°	388.3	383.5	379.3	376.5	364.4	350.9	330.0	302.0	272.7	*269.1*	242.6
7.5°	437.4	436.6	431.4	429.8	420.4	407.0	385.4	350.6	308.0	*302.2*	261.9
10°	476.8	476.3	473.7	475.1	466.5	453.4	432.5	396.6	346.7	*340.9*	283.4
12.5°	511.1	511.9	511.4	516.7	512.4	502.2	480.5	441.0	385.4	*379.1*	309.6
15°	536.2	536.8	539.3	550.9	553.3	551.2	529.2	484.5	423.6	*414.6*	336.7
17.5°	543.3	544.6	550.4	569.2	582.3	591.1	574.7	528.9	461.2	*451.3*	364.2
20°	552.9	554.3	560.1	579.7	599.0	618.9	616.0	573.9	499.1	*491.0*	392.1
22.5°	597.1	595.9	593.3	602.7	616.5	641.3	648.6	617.2	538.3	*530.5*	422.8
25°	682.3	680.1	663.6	655.0	650.5	665.6	678.5	656.5	576.5	*564.8*	451.5
27.5°	776.2	775.0	754.0	733.6	705.7	699.3	706.9	690.8	613.6	*601.8*	476.4
30°	865.1	861.7	839.7	814.1	776.8	749.0	737.8	724.5	654.2	*641.9*	505.6
32.5°	944.6	940.2	914.3	886.0	846.9	814.1	780.7	760.3	700.2	*686.0*	535.4
35°	1009.9	1005.5	978.9	948.8	905.9	881.6	835.9	799.2	747.0	*732.6*	570.5
37.5°	1060.4	1056.3	1028.6	999.0	961.6	942.3	902.7	842.9	801.0	*785.9*	607.8
40°	1088.7	1085.8	1063.6	1040.1	1008.7	992.0	974.2	898.1	861.4	*846.3*	651.6
42.5°	1097.3	1095.4	1079.8	1067.7	1046.5	1033.8	1044.0	963.1	925.8	*912.7*	701.0
45°	1075.8	1075.8	1071.2	1077.4	1078.4	1078.2	1114.0	1036.4	1005.0	*990.6*	770.7
47.5°	1020.7	1024.3	1030.9	1061.2	1093.1	1119.8	1195.8	1134.2	1106.9	*1095.0*	869.3
50°	920.0	929.7	952.4	1011.5	1079.3	1147.3	1273.2	1278.8	1304.9	*1284.0*	1014.4
52.5°	772.5	771.0	828.8	913.0	1016.5	1148.5	1315.8	1406.4	1476.6	*1462.2*	1122.2
55°	613.9	611.5	665.4	781.5	920.1	1105.1	1341.3	1464.9	1571.8	*1558.8*	1219.2
57.5°	470.1	467.0	515.0	619.7	784.1	1012.9	1336.5	1534.5	1702.8	*1696.2*	1351.1
60°	323.6	319.8	364.7	456.3	623.1	872.0	1282.7	1570.3	1856.2	*1858.4*	1492.1
62.5°	194.3	192.2	224.8	295.9	448.2	697.5	1156.9	1548.6	1978.3	*1988.5*	1582.8
65°	*117.2*	*115.8*	*134.9*	*176.5*	*284.4*	*509.0*	*962.9*	*1437.7*	*1995.9*	*2019.4*	*1584.9*
67.5°	85.3	85.5	91.0	107.5	165.8	328.7	722.6	1238.8	1903.9	*1928.2*	1485.0
70°	74.2	74.5	77.4	81.1	100.2	188.2	469.8	978.0	1632.0	*1650.8*	1245.5
72.5°	65.9	65.9	67.9	69.8	78.4	114.7	251.7	683.5	1288.1	*1293.1*	950.6
75°	58.0	57.5	58.5	59.4	68.0	80.2	122.4	476.3	951.4	*939.7*	614.4
77.5°	46.2	45.7	45.8	46.8	54.6	57.3	62.0	297.5	536.2	*506.1*	271.4
80°	32.9	32.5	34.3	36.8	40.3	35.1	38.9	144.0	212.6	*197.9*	105.3
82.5°	19.6	20.2	23.0	24.9	27.9	22.0	25.1	48.1	75.3	*73.4*	42.8
85°	2.8	2.9	8.3	9.6	12.0	8.6	13.3	21.7	30.1	*32.2*	15.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.9	8.6	*8.7*	3.7
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: P629092
CATALOG NUMBER: GWS-SA1A-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1	218.1
2.5°	222.0	214.4	203.6	194.5	186.9	180.7	175.5	171.7	170.5	168.9	168.9
5°	230.1	216.4	196.9	183.2	175.2	170.5	167.3	165.7	164.9	163.9	163.4
7.5°	241.3	222.0	195.8	181.9	175.7	172.8	170.7	169.7	169.1	168.1	168.1
10°	256.7	230.4	199.3	186.4	181.5	178.6	176.2	174.6	173.1	171.7	171.3
12.5°	273.4	241.5	205.8	192.5	187.4	183.8	180.4	178.0	176.2	174.4	173.9
15°	291.8	252.8	212.8	198.5	192.1	187.2	183.2	179.4	177.0	174.4	174.1
17.5°	310.0	264.3	218.6	202.6	194.3	188.3	182.5	177.6	174.6	171.7	170.8
20°	331.7	275.8	222.7	203.7	193.8	185.9	178.9	172.8	169.4	166.0	165.5
22.5°	351.6	286.5	224.6	202.1	190.1	180.7	172.6	166.0	162.3	158.9	158.2
25°	370.8	295.9	223.8	198.2	184.4	173.6	165.2	158.5	155.0	151.4	150.4
27.5°	389.5	302.2	220.6	192.2	177.3	165.7	157.6	151.6	148.5	145.4	144.1
30°	407.8	308.0	215.5	184.4	168.3	157.4	150.8	146.6	143.5	140.2	139.3
32.5°	426.2	312.2	207.9	175.4	159.0	150.1	146.1	143.0	139.8	136.5	135.5
35°	444.8	314.0	198.7	165.0	151.3	145.4	144.0	140.4	136.0	132.1	130.8
37.5°	467.0	315.6	187.2	154.8	144.5	143.2	142.8	137.5	132.3	127.0	125.5
40°	493.8	317.7	175.4	145.6	138.9	142.3	141.0	133.8	123.4	118.2	116.6
42.5°	526.5	321.6	163.1	137.2	134.9	139.3	137.8	124.7	117.7	114.8	114.0
45°	574.6	335.9	150.8	130.5	131.8	134.9	132.6	119.3	116.6	114.7	113.7
47.5°	660.2	357.7	140.1	125.5	129.4	131.0	122.3	117.9	115.8	113.2	112.1
50°	749.3	367.3	131.5	122.4	126.6	127.4	116.6	115.9	114.5	111.7	110.6
52.5°	809.5	366.0	126.3	121.3	124.4	121.3	114.0	113.8	112.9	109.6	108.3
55°	877.6	368.3	124.0	121.6	123.4	110.9	110.8	111.3	110.8	107.2	106.6
57.5°	969.4	375.2	122.9	122.8	122.8	105.9	107.7	108.3	107.4	105.7	105.3
60°	1057.6	375.7	120.8	124.0	122.3	102.8	104.1	104.8	103.6	103.3	103.2
62.5°	1090.8	352.4	116.1	123.1	120.3	99.4	100.4	100.7	99.6	100.4	100.2
65°	*1041.4*	*302.8*	*108.3*	*118.4*	*114.3*	*96.4*	*95.7*	*96.5*	*94.6*	*96.7*	*96.8*
67.5°	924.7	240.6	96.5	109.5	105.9	93.0	91.7	91.7	88.4	91.7	91.5
70°	745.6	170.0	79.2	95.2	96.7	88.9	88.3	84.5	79.4	84.2	83.7
72.5°	565.2	122.1	62.3	75.3	83.2	83.2	83.4	77.1	71.1	73.4	71.4
75°	358.0	86.0	49.9	57.7	65.3	73.0	76.8	65.1	59.8	58.8	57.8
77.5°	161.3	56.5	38.9	44.2	46.3	57.7	70.1	56.0	48.7	46.6	46.0
80°	67.5	35.1	27.7	31.3	28.5	48.4	61.9	43.6	35.8	32.9	30.8
82.5°	29.6	20.9	17.7	16.8	17.8	36.0	46.2	29.0	22.3	30.3	30.6
85°	12.5	11.0	9.1	8.3	7.3	13.8	21.7	11.3	13.9	7.9	6.5
87.5°	2.9	3.2	2.4	1.6	1.0	0.2	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

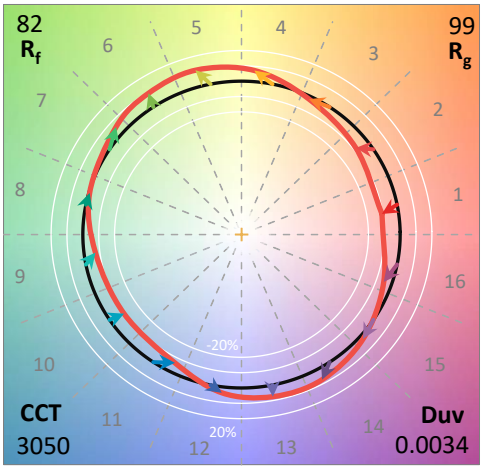
Test Information

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

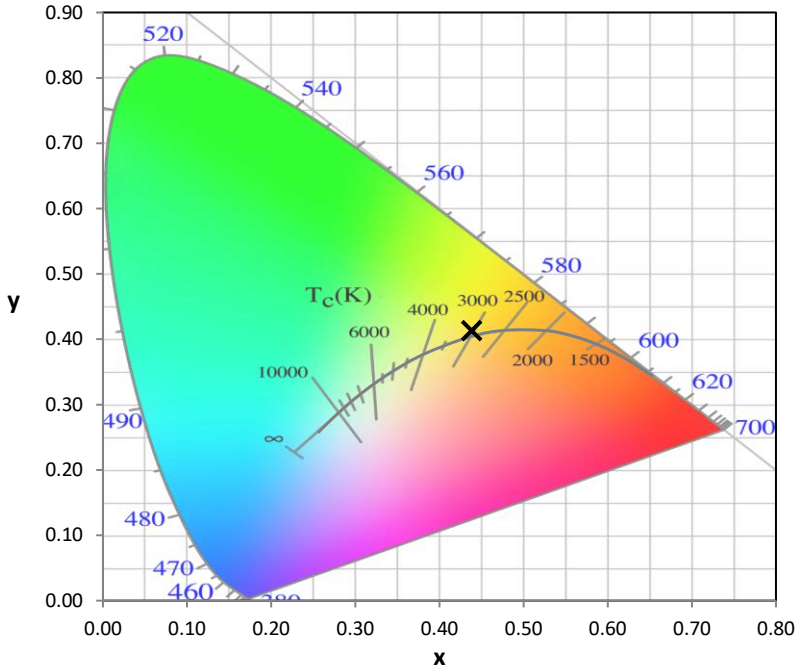
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

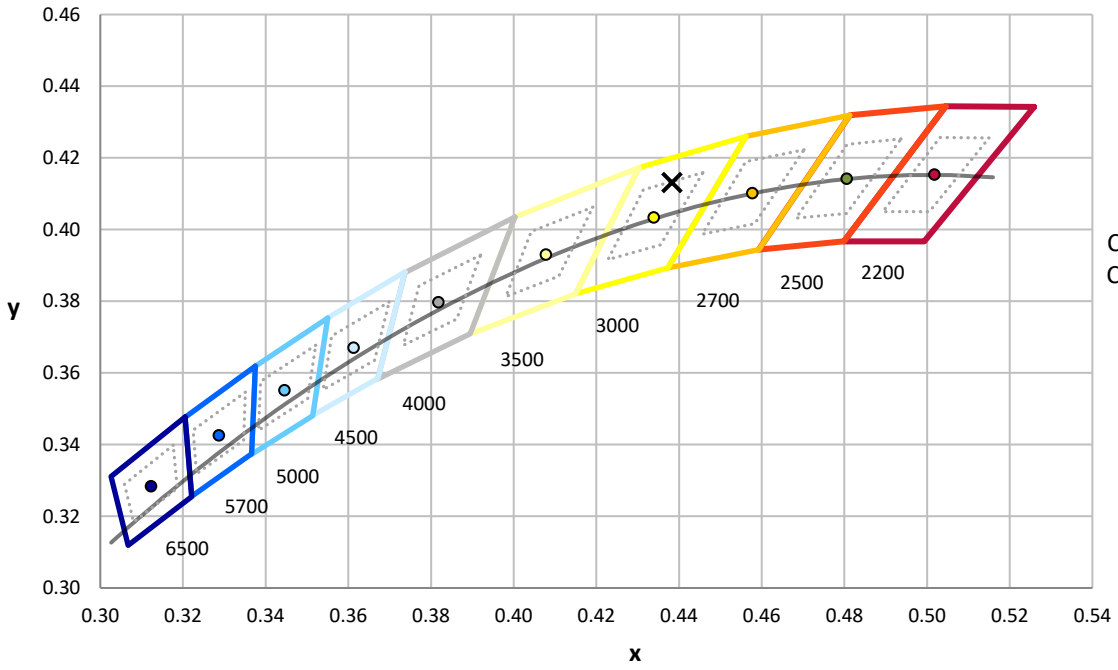
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

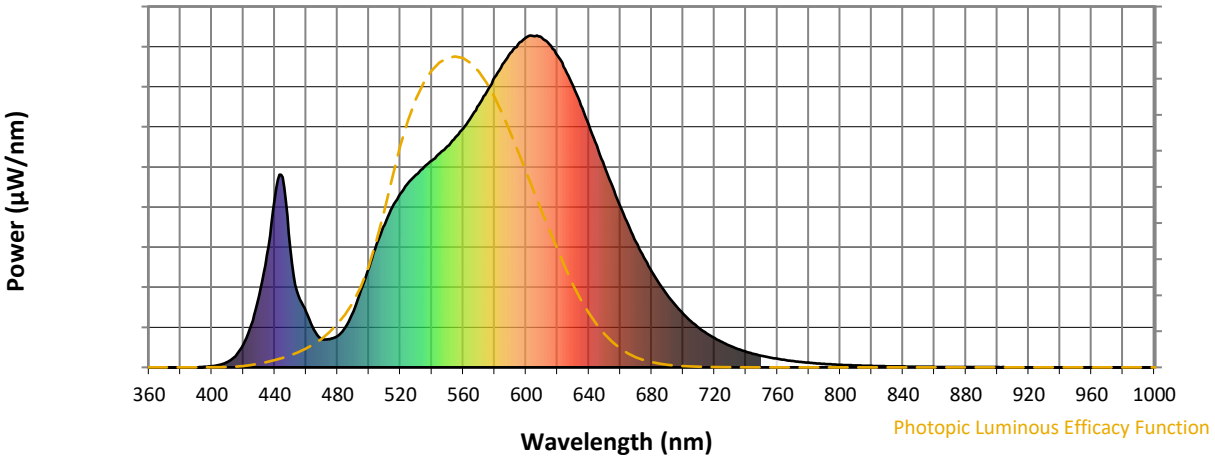


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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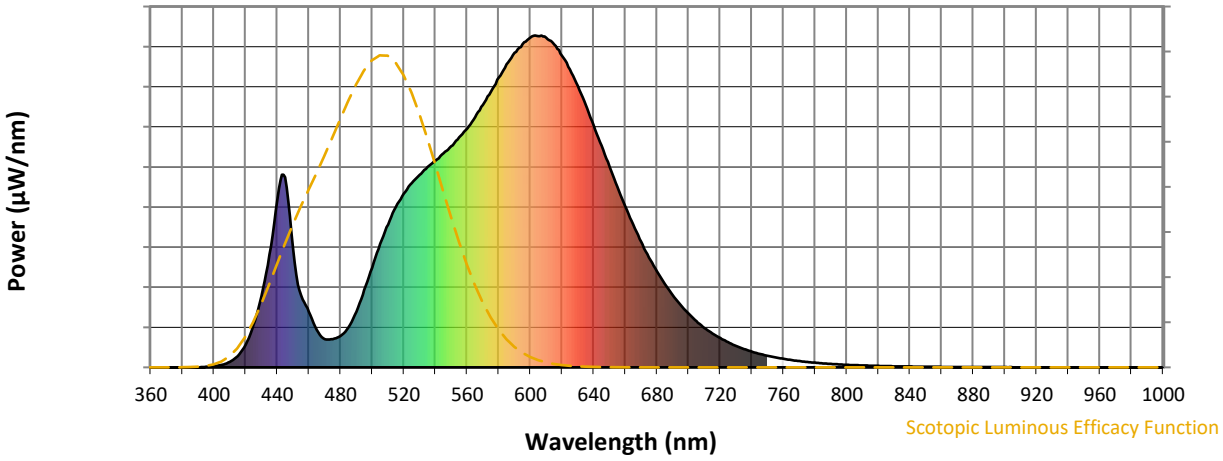
Scotopic Flux vs. Wavelength



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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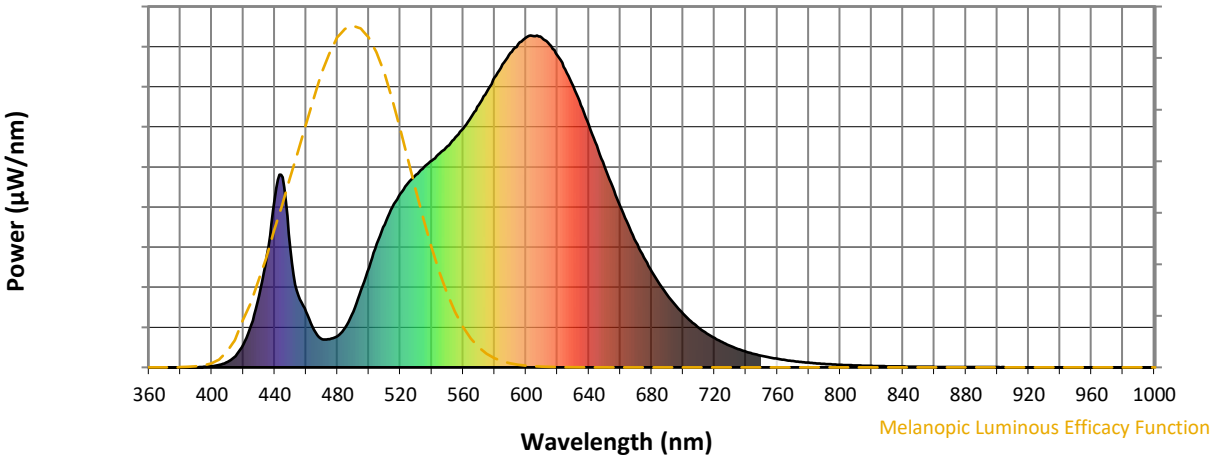
Melanopic Flux vs. Wavelength



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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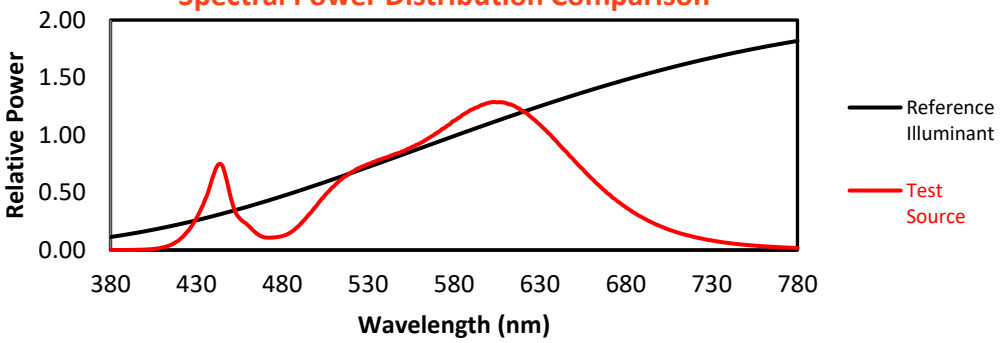
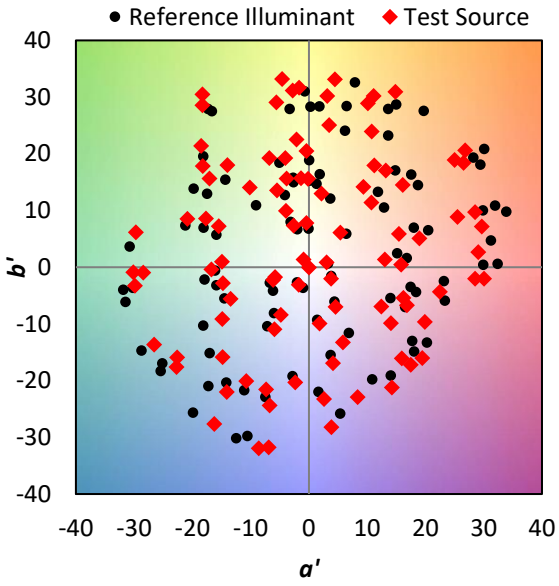
Summary

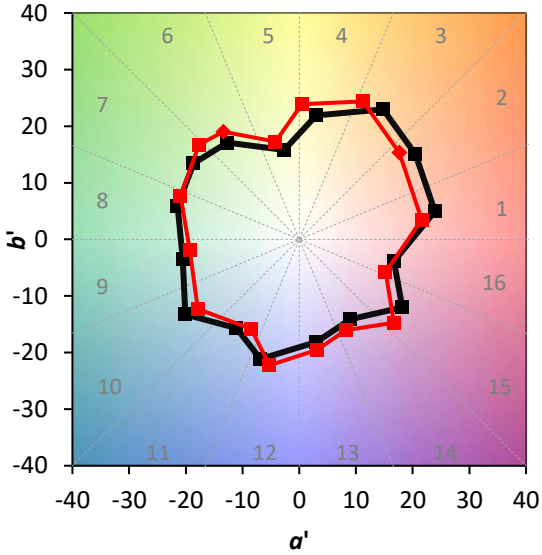
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

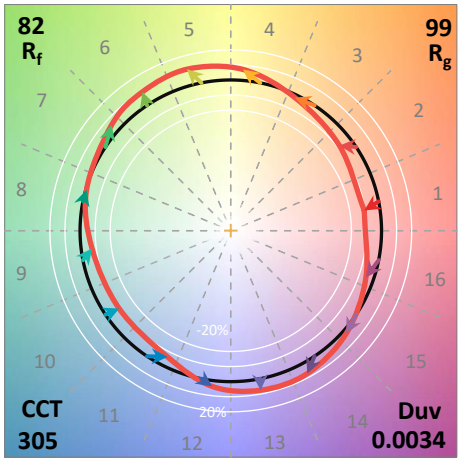
Spectral Power Distribution Comparison

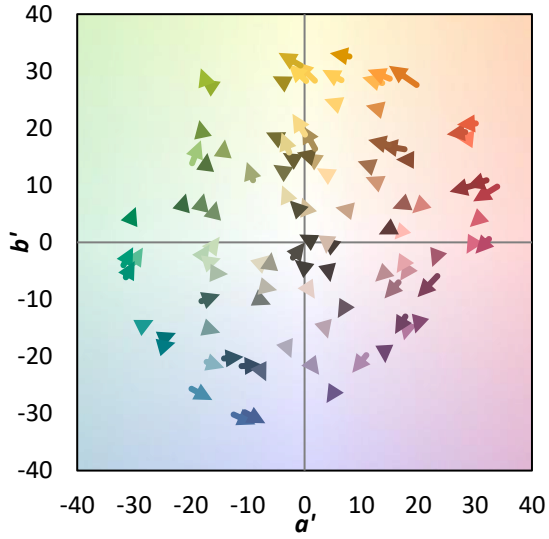


Color Vector Graphics









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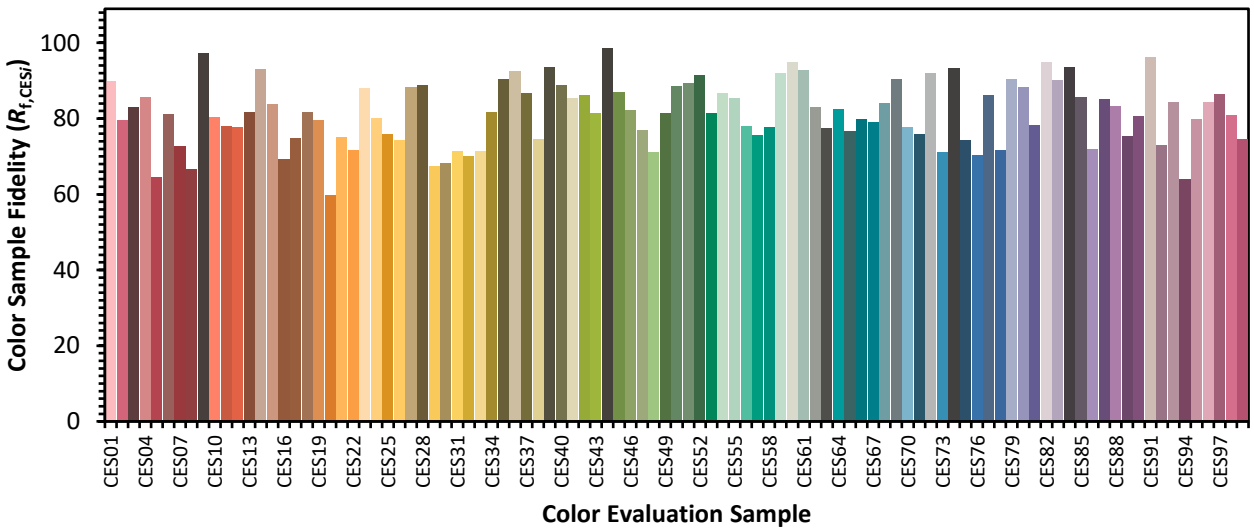
Individual Sample Fidelity Index ($R_{f,i}$)

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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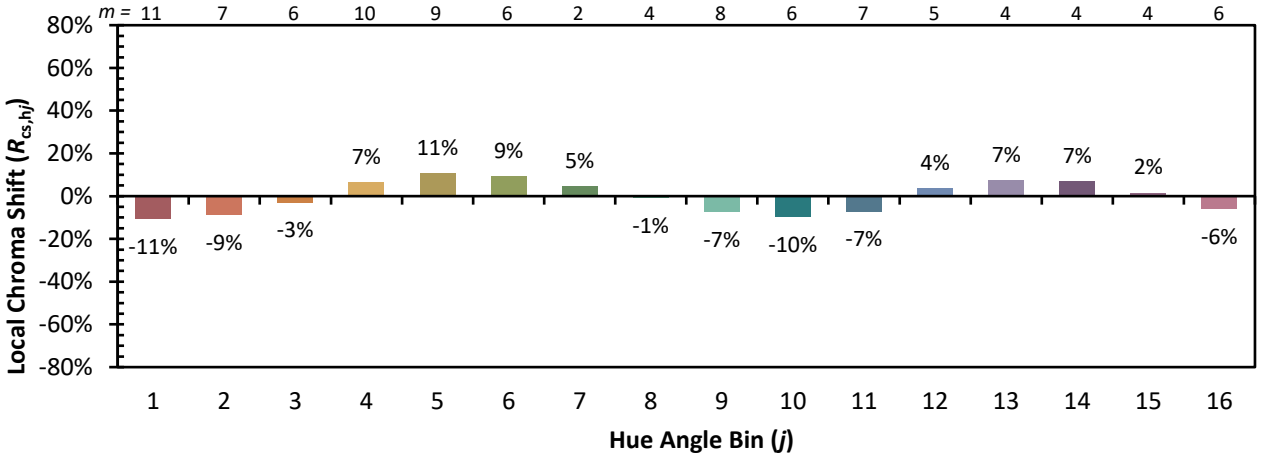
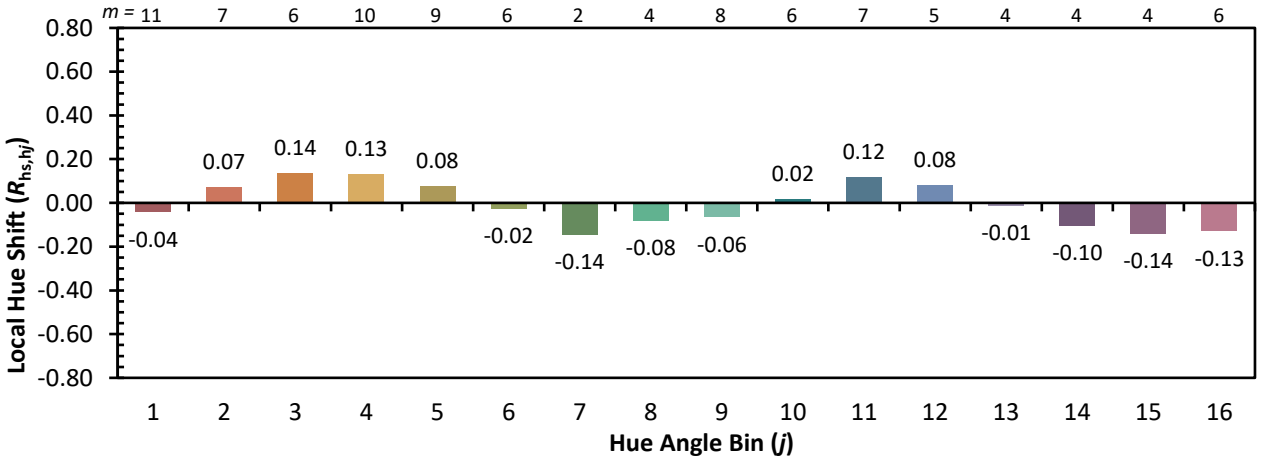
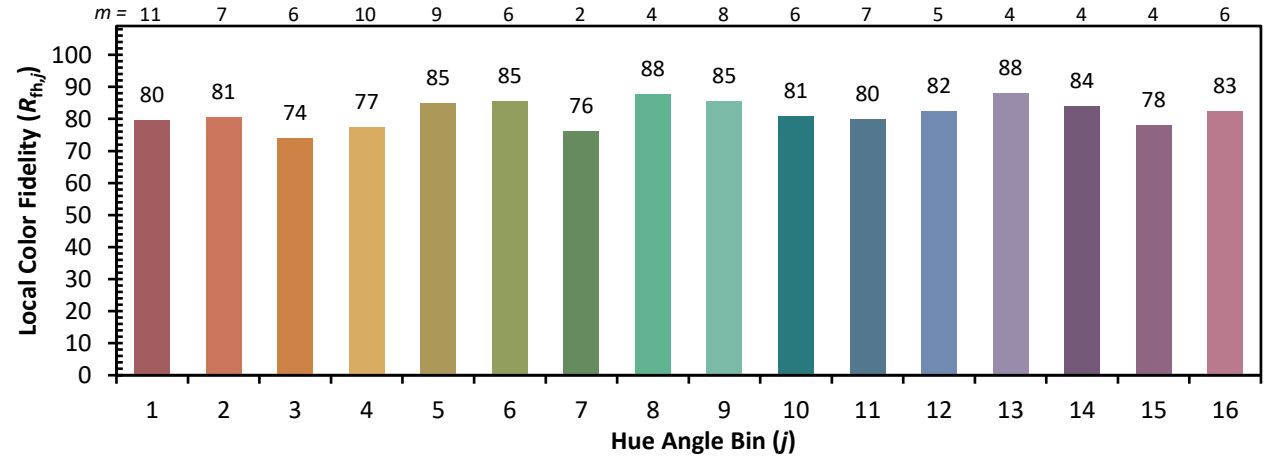
Color Rendition by Hue-Angle Bin







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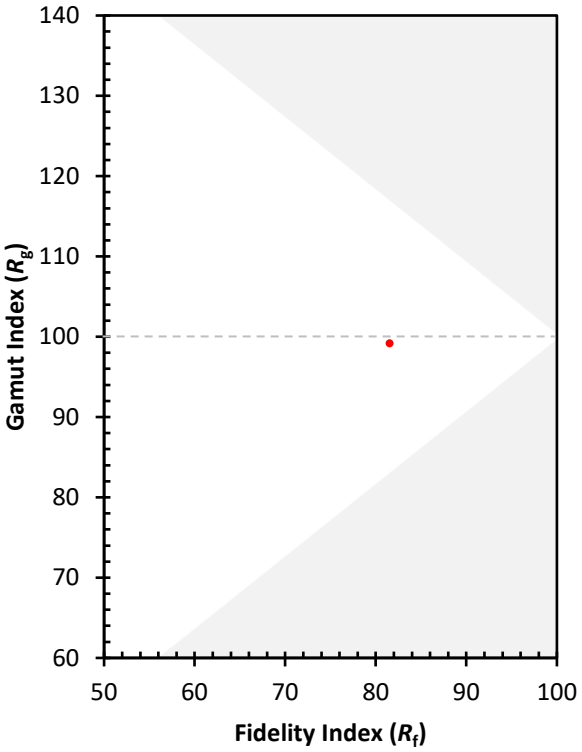
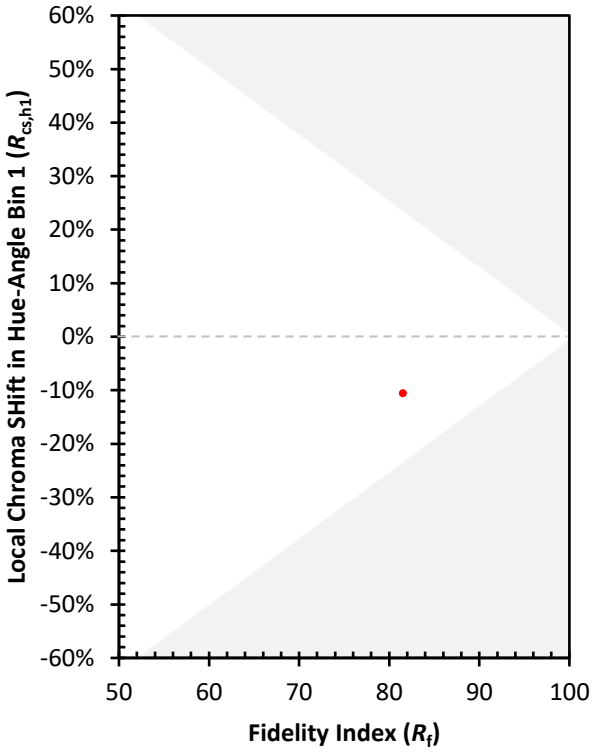
Measure Comparisons





(END OF REPORT)