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: P629592

Luminaire Tested: GWS-SA1B-830-U-T3R-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:	P629592
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-T3R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1785.7 lumens
Efficiency:	N/A
Efficacy:	71.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	25
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: P629592
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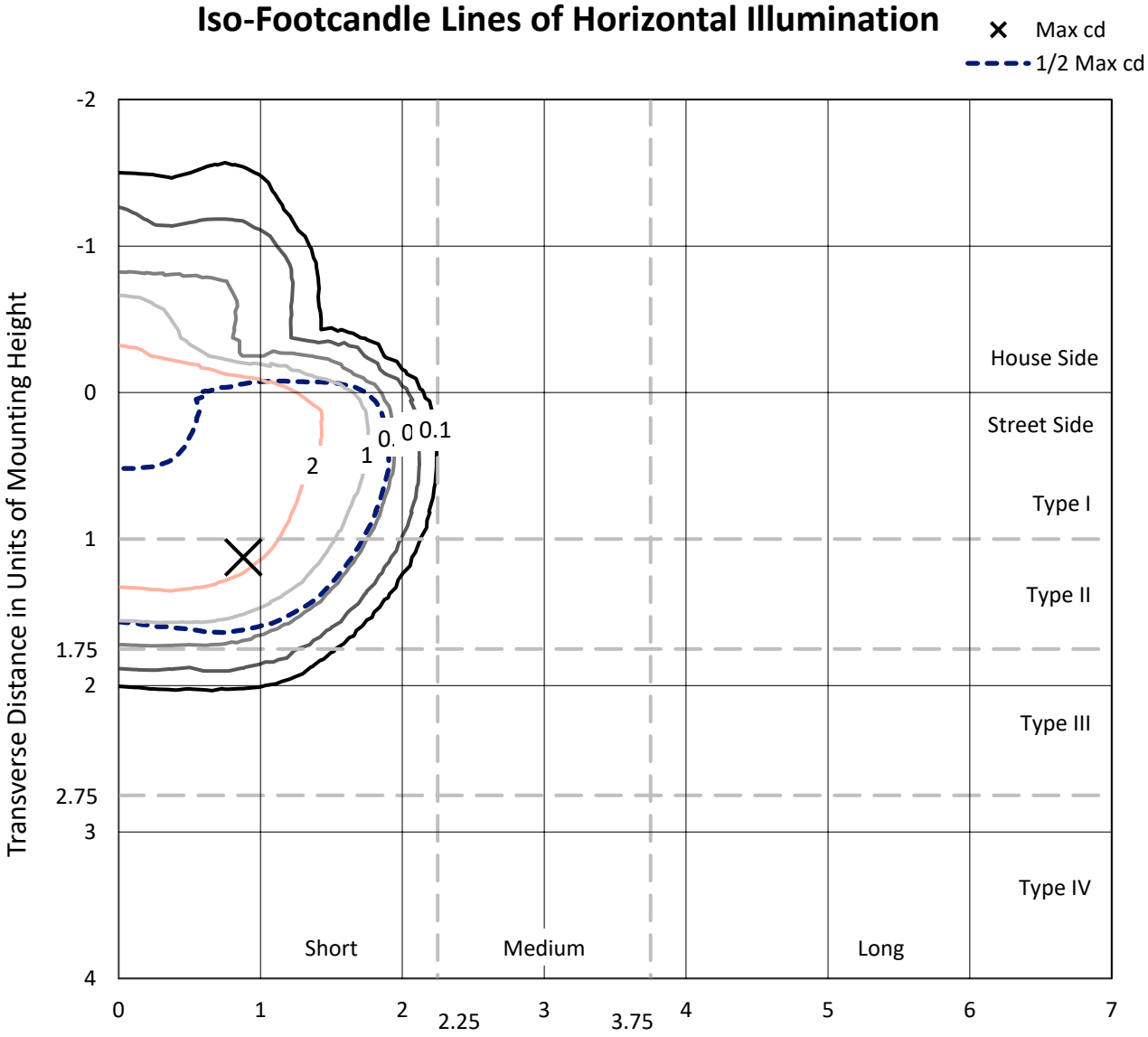
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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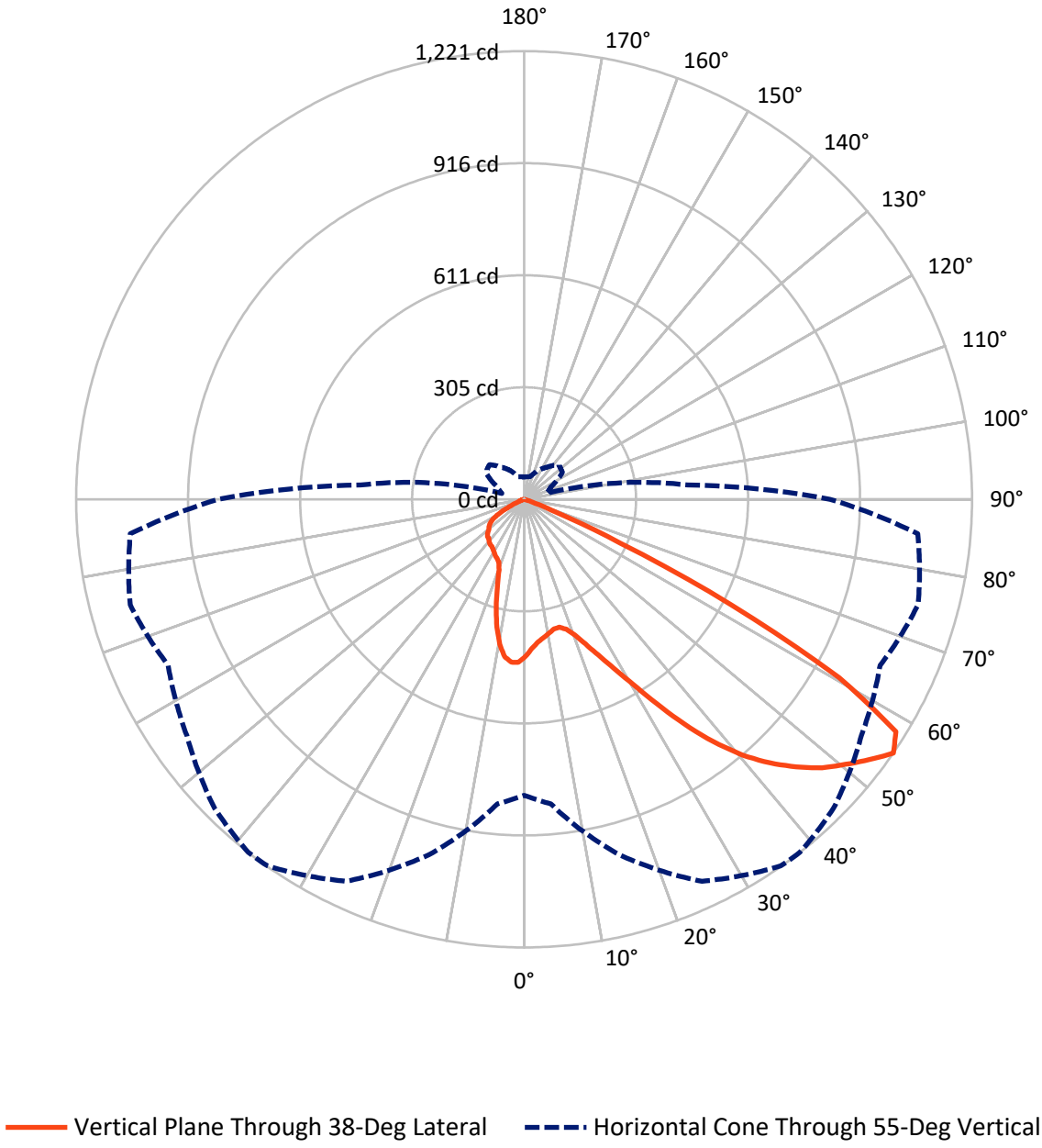
Luminous Intensity Polar Plot



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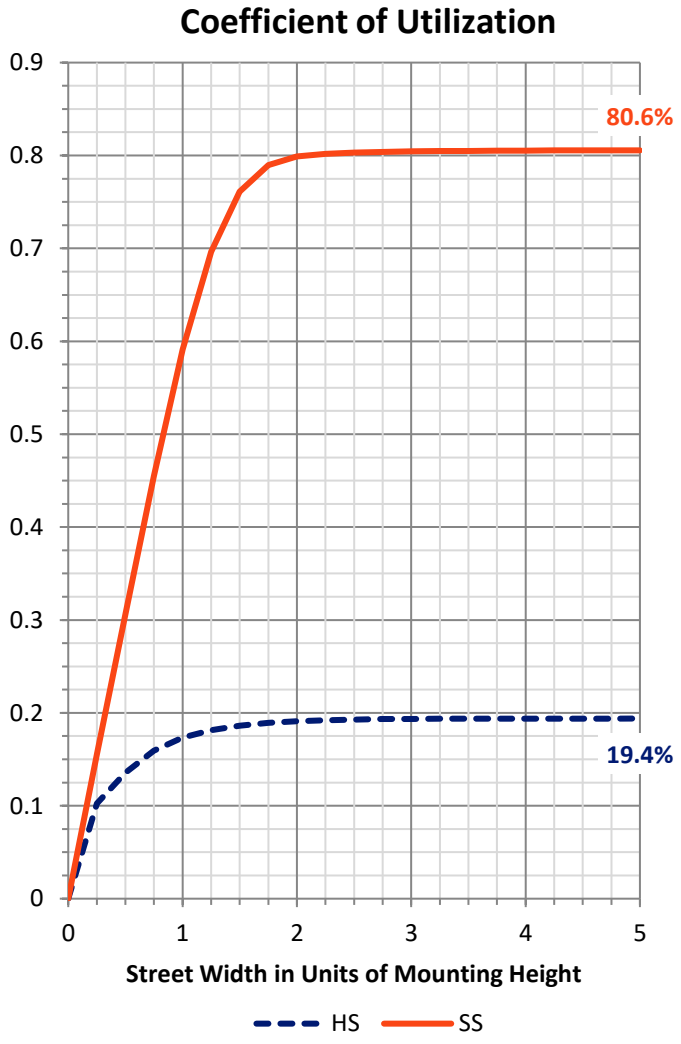
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.9	0.0	347.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1437.8	0.0	1437.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	1785.7	0.0	1785.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	2.2
10°-20°	106.6	6.0
20°-30°	182.9	10.2
30°-40°	303.4	17.0
40°-50°	446.0	25.0
50°-60°	521.2	29.2
60°-70°	176.7	9.9
70°-80°	9.0	0.5
80°-90°	0.3	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°	1785.7	100.0
0°-180°	1785.7	100.0



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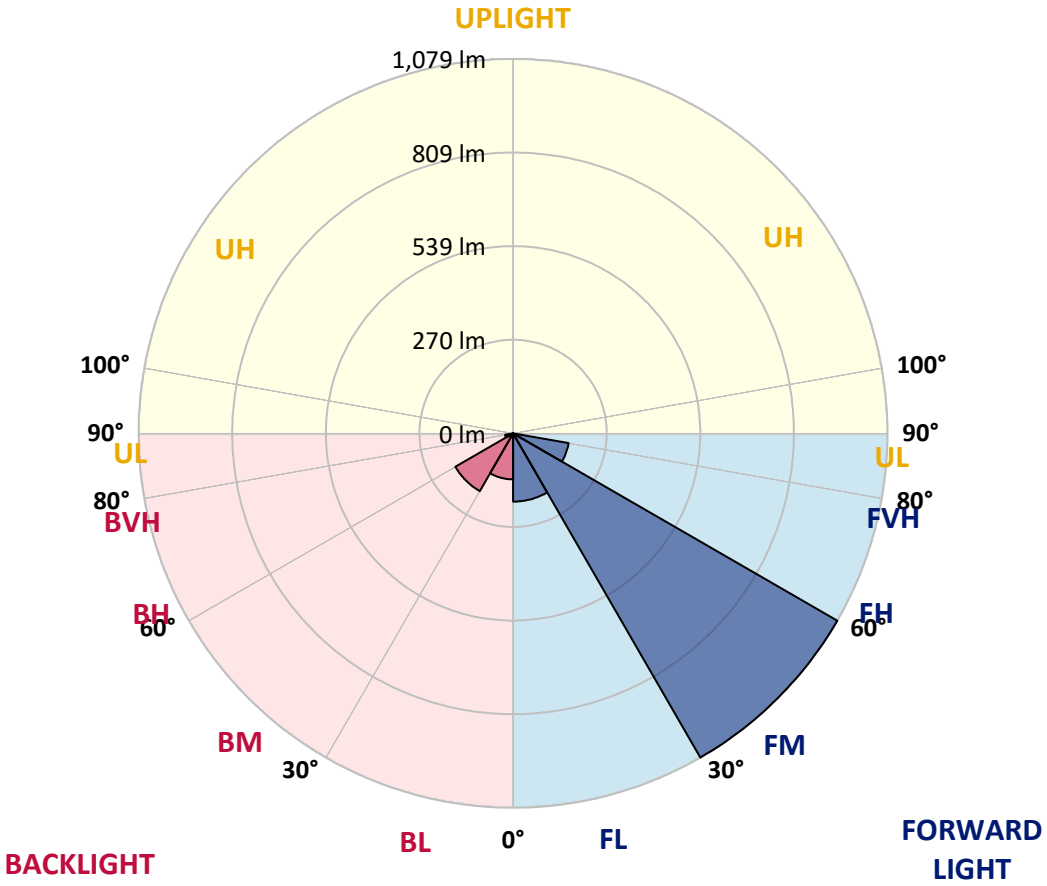
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	196.6	11.0			
FM	(30°-60°)	1078.5	60.4			
FH	(60°-80°)	162.5	9.1			G0/660
FVH	(80°-90°)	0.2	0.0			G0/10
BL	(0°-30°)	132.6	7.4	B1/500		
BM	(30°-60°)	192.0	10.8	B0/220		
BH	(60°-80°)	23.2	1.3	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G0
Type II Short



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REPORT NUMBER: P629592
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2
2.5°	398.8	398.0	399.6	402.9	406.0	407.0	410.1	414.3	417.0	423.3	428.4
5°	380.9	380.5	382.1	385.0	389.0	390.5	395.2	402.3	409.4	420.5	431.3
7.5°	364.5	364.3	366.8	373.1	379.0	380.9	386.6	395.4	405.0	421.9	437.8
10°	343.1	343.3	348.0	357.0	367.8	371.5	380.7	393.3	405.8	427.6	449.7
12.5°	336.2	336.6	339.0	346.0	357.8	362.5	375.4	394.5	410.5	435.8	465.0
15°	353.1	353.1	351.1	351.9	357.2	361.5	375.0	398.6	418.4	445.6	480.1
17.5°	386.0	384.7	379.6	372.7	370.9	372.3	383.1	407.4	429.7	457.0	497.2
20°	430.5	430.9	420.9	406.4	394.8	394.5	401.1	422.9	445.8	470.7	515.8
22.5°	484.4	482.7	469.5	449.7	429.4	427.8	430.5	446.6	469.0	492.3	538.6
25°	546.8	546.0	527.2	500.7	473.9	470.1	470.1	486.0	502.3	523.1	566.0
27.5°	612.1	612.1	594.0	563.3	527.8	520.9	519.9	538.6	549.5	553.5	589.1
30°	679.3	678.5	660.5	629.1	591.1	584.0	581.1	595.0	602.7	590.5	617.8
32.5°	747.5	748.9	730.7	701.5	667.6	663.0	654.2	654.2	660.5	643.4	663.2
35°	820.7	820.3	806.0	786.2	757.3	751.9	737.5	714.8	724.4	716.8	725.8
37.5°	885.4	888.5	881.6	866.9	843.4	838.1	814.2	773.2	780.5	792.4	800.3
40°	951.2	953.6	960.5	955.9	926.3	916.5	874.0	806.6	814.8	855.4	878.3
42.5°	1015.7	1016.9	1031.0	1038.7	999.1	982.0	919.3	827.1	835.6	904.8	944.8
45°	1056.7	1059.3	1082.6	1106.3	1063.4	1039.9	958.7	853.2	856.9	939.1	994.0
47.5°	1055.0	1061.2	1104.9	1147.9	1118.7	1093.4	1006.1	895.0	888.9	971.4	1026.5
50°	1022.2	1029.5	1092.2	1160.6	1158.5	1135.1	1058.7	955.6	936.5	999.9	1030.6
52.5°	954.0	975.2	1069.9	1162.2	1190.6	1178.7	1123.8	1037.3	1000.8	1041.0	1037.1
55°	806.6	832.8	1002.4	1148.3	1219.6	1221.0	1192.2	1122.4	1070.6	1111.6	1077.3
57.5°	612.3	633.2	771.5	1022.2	1171.6	1195.1	1218.7	1167.3	1113.6	1159.8	1086.7
60°	369.0	393.1	483.1	750.1	946.3	986.3	1079.1	1069.1	1004.4	1024.2	891.1
62.5°	149.6	162.3	223.1	413.3	595.6	632.9	721.9	737.0	721.1	700.9	540.5
65°	54.7	59.8	89.4	170.8	273.9	287.6	334.5	361.3	383.3	326.4	201.0
67.5°	33.9	37.1	58.2	87.8	99.6	92.7	94.3	112.5	107.4	66.3	35.9
70°	25.1	27.8	45.5	60.8	40.2	31.0	21.0	22.5	20.2	17.8	17.6
72.5°	17.3	19.8	34.1	35.9	15.5	11.0	7.8	10.8	12.2	12.0	12.5
75°	11.4	13.3	21.4	14.1	3.9	3.1	2.7	5.7	7.3	7.3	7.6
77.5°	6.7	7.8	7.6	2.9	0.8	0.8	0.6	1.0	1.6	1.8	2.2
80°	0.8	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
82.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6
85°	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.6	0.6
87.5°	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.6	0.6
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: P629592
CATALOG NUMBER: GWS-SA1B-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2	428.2
2.5°	432.3	430.9	436.8	441.1	444.6	446.2	443.9	443.7	443.7	439.2	438.0
5°	437.4	438.0	446.4	450.1	450.7	448.6	443.5	440.1	438.0	433.3	430.7
7.5°	447.2	449.2	457.2	456.6	451.1	441.7	428.2	417.8	411.1	403.7	399.2
10°	461.3	465.2	470.1	461.5	443.9	420.1	392.3	372.5	360.7	352.3	347.2
12.5°	478.4	482.3	480.7	460.5	423.9	381.3	345.6	317.0	303.3	295.8	290.4
15°	495.8	498.2	487.6	448.2	388.6	331.3	291.5	263.1	246.4	240.2	235.7
17.5°	513.5	512.9	488.8	424.1	341.5	274.9	235.7	216.4	211.7	210.6	210.2
20°	532.1	526.6	483.9	389.6	284.7	219.2	197.0	198.2	206.8	210.8	211.7
22.5°	553.3	539.5	471.7	342.9	226.8	182.7	184.9	197.0	208.6	214.1	214.9
25°	576.0	551.3	451.3	282.9	178.8	168.0	181.3	195.1	207.6	214.3	215.1
27.5°	590.9	554.2	417.8	222.5	153.5	162.3	176.4	189.6	202.5	209.8	210.8
30°	607.0	552.9	372.3	171.5	144.9	157.4	169.6	181.7	193.5	201.7	202.5
32.5°	630.7	552.1	316.8	139.2	141.4	153.5	162.5	172.5	180.6	185.3	184.7
35°	661.7	551.1	252.1	125.5	139.4	150.4	157.6	162.3	153.3	150.4	151.0
37.5°	701.5	553.5	197.6	119.8	138.8	149.6	155.7	142.3	128.4	123.1	122.3
40°	745.6	559.9	150.6	117.6	140.8	151.7	148.8	126.5	109.4	99.0	96.7
42.5°	789.9	566.8	119.2	116.8	144.3	157.4	137.4	115.1	89.4	83.5	82.7
45°	822.8	565.6	103.1	115.3	147.4	160.6	134.3	98.8	79.8	77.2	77.4
47.5°	839.3	552.1	94.3	112.1	148.6	157.4	126.8	92.1	73.3	76.1	78.6
50°	830.5	517.2	86.1	105.7	145.9	153.1	114.7	87.0	70.0	81.8	87.4
52.5°	819.9	474.4	77.2	95.9	139.6	147.2	110.0	85.5	68.0	79.0	83.1
55°	*834.0*	*447.2*	*62.5*	*80.8*	*127.2*	*133.3*	*106.3*	*85.3*	*63.3*	*61.4*	*60.8*
57.5°	814.2	393.1	44.7	58.2	97.6	105.5	103.7	83.9	56.1	55.9	56.7
60°	629.3	239.8	30.6	36.9	59.8	67.4	94.1	80.2	48.4	44.5	44.7
62.5°	357.6	102.1	21.0	22.9	30.6	36.3	71.8	72.9	44.7	42.5	44.7
65°	124.5	36.5	16.3	15.3	16.9	19.4	41.2	56.3	40.6	36.7	37.1
67.5°	25.7	18.2	14.5	12.7	12.7	12.7	21.0	35.1	33.5	29.2	29.6
70°	16.3	15.5	12.7	10.8	10.4	9.6	12.0	19.4	23.1	21.2	21.4
72.5°	12.0	11.8	10.0	8.8	7.8	6.9	7.6	9.6	11.8	12.2	12.5
75°	7.3	7.6	6.5	5.5	4.9	4.3	4.5	4.5	4.5	4.1	4.5
77.5°	2.2	2.4	2.0	1.6	1.4	1.4	1.4	1.2	1.0	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	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

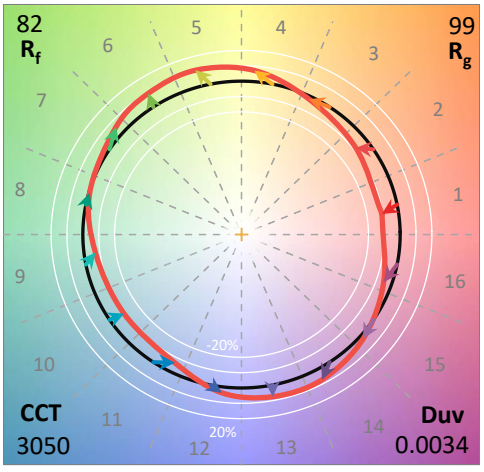
Test Information

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

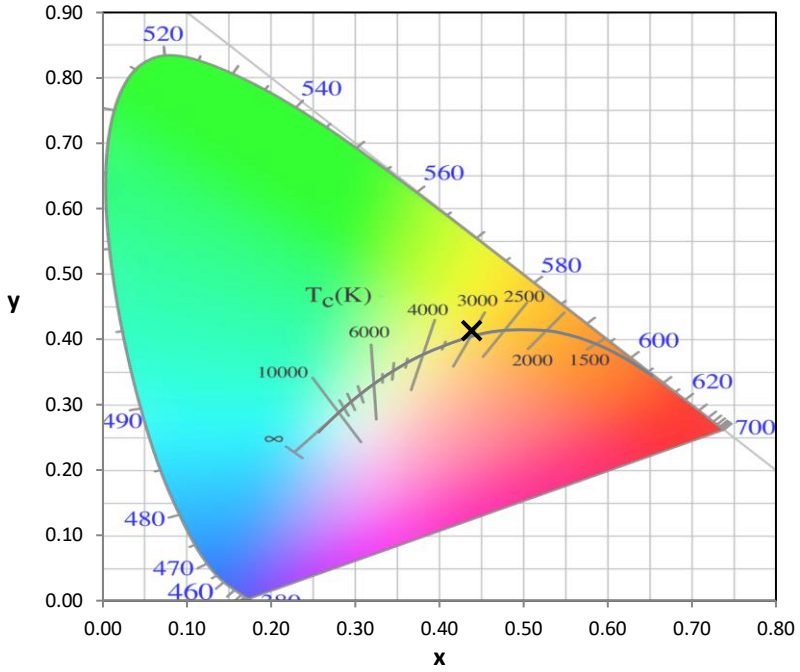
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

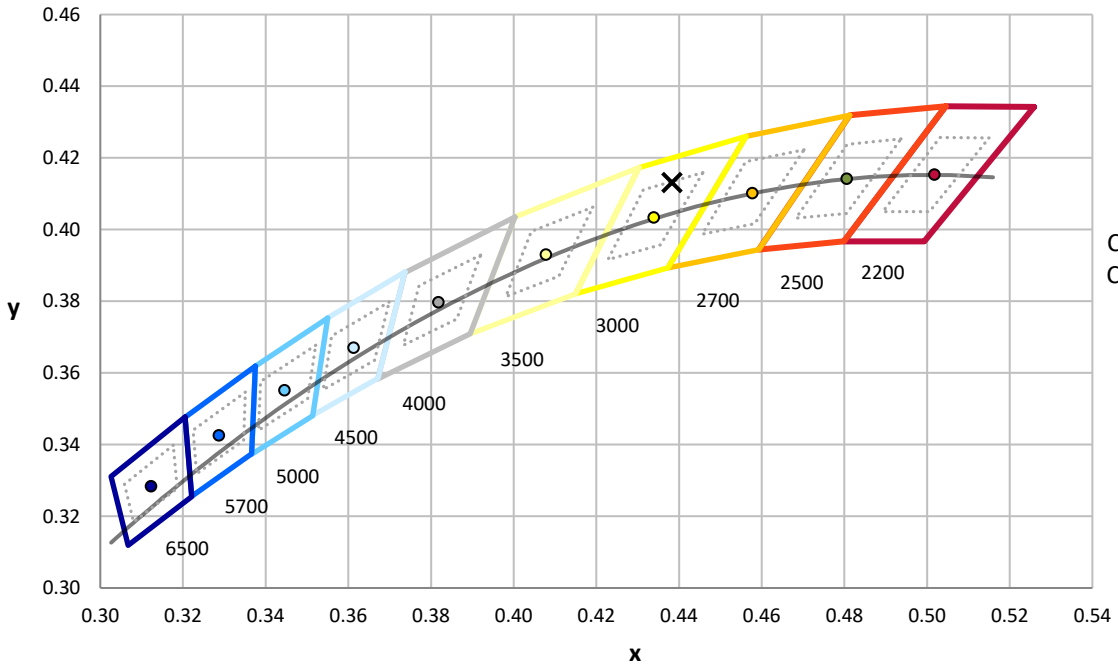
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

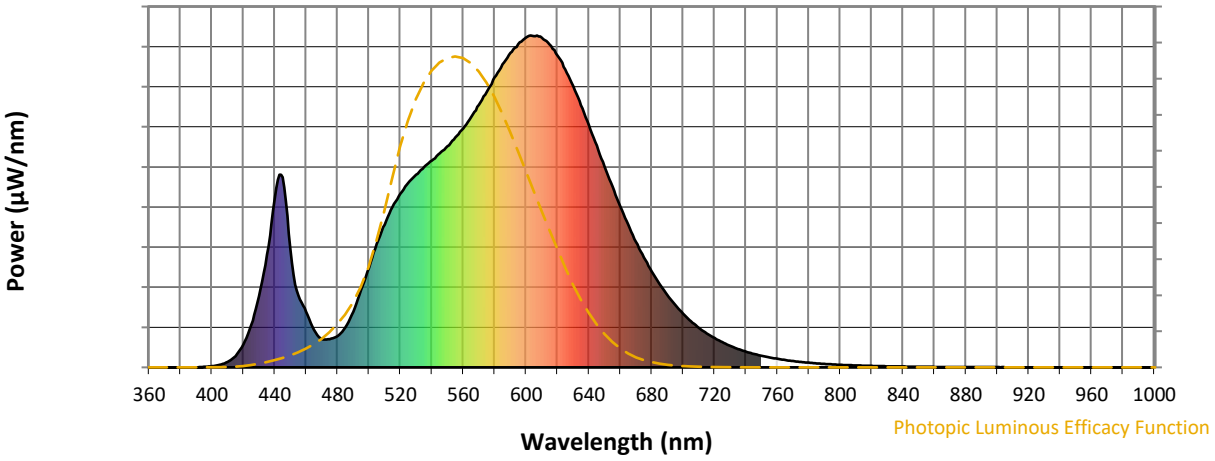


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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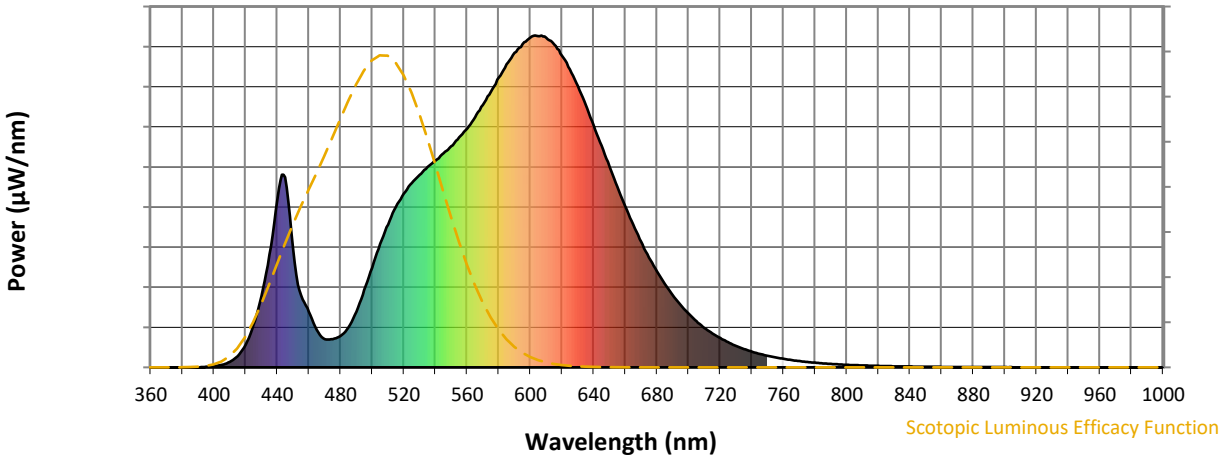
Scotopic Flux vs. Wavelength



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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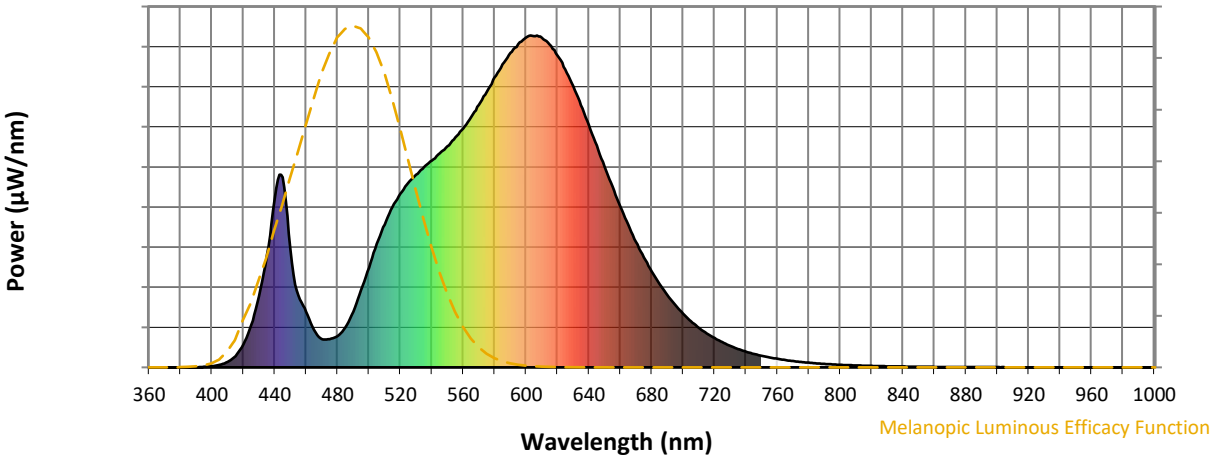
Melanopic Flux vs. Wavelength



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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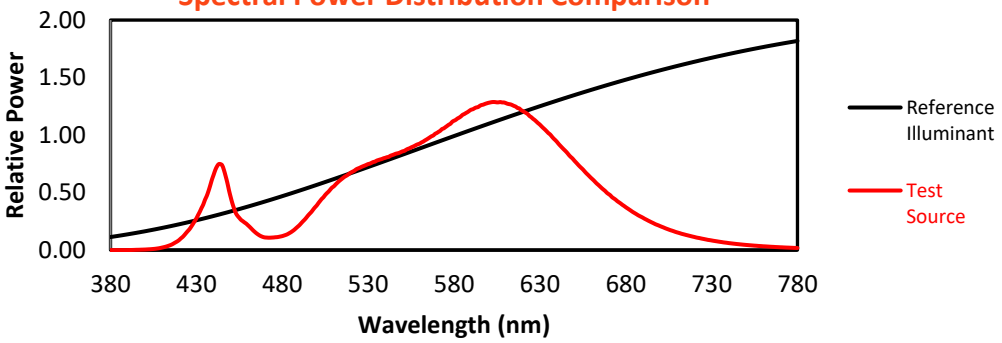
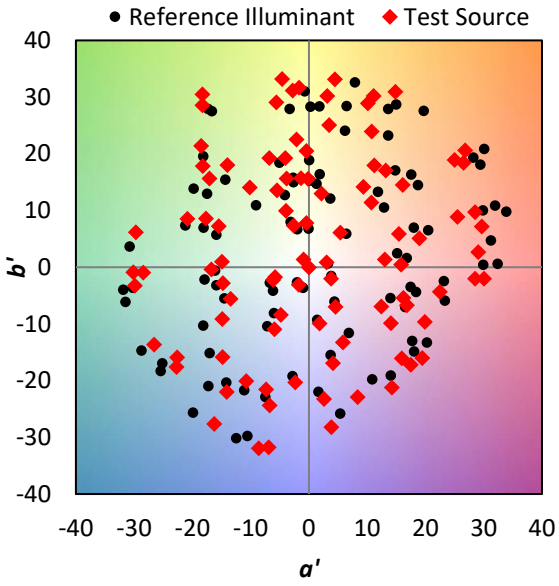
Summary

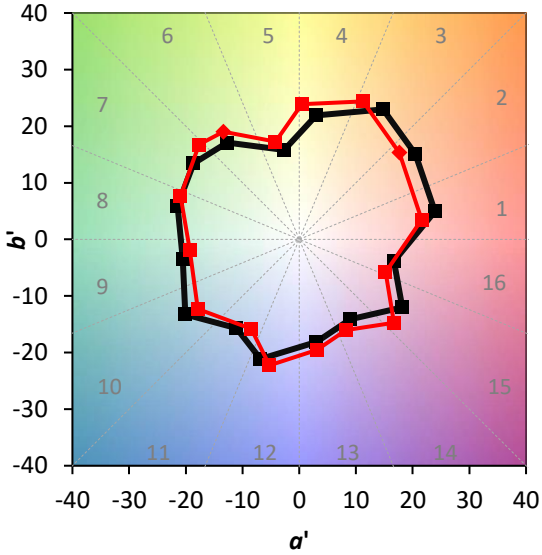
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

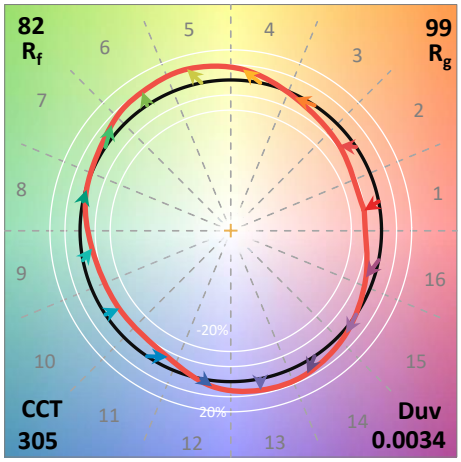
Spectral Power Distribution Comparison

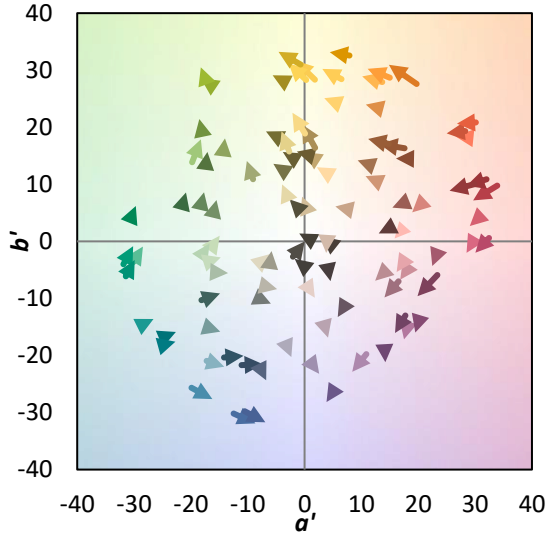


Color Vector Graphics









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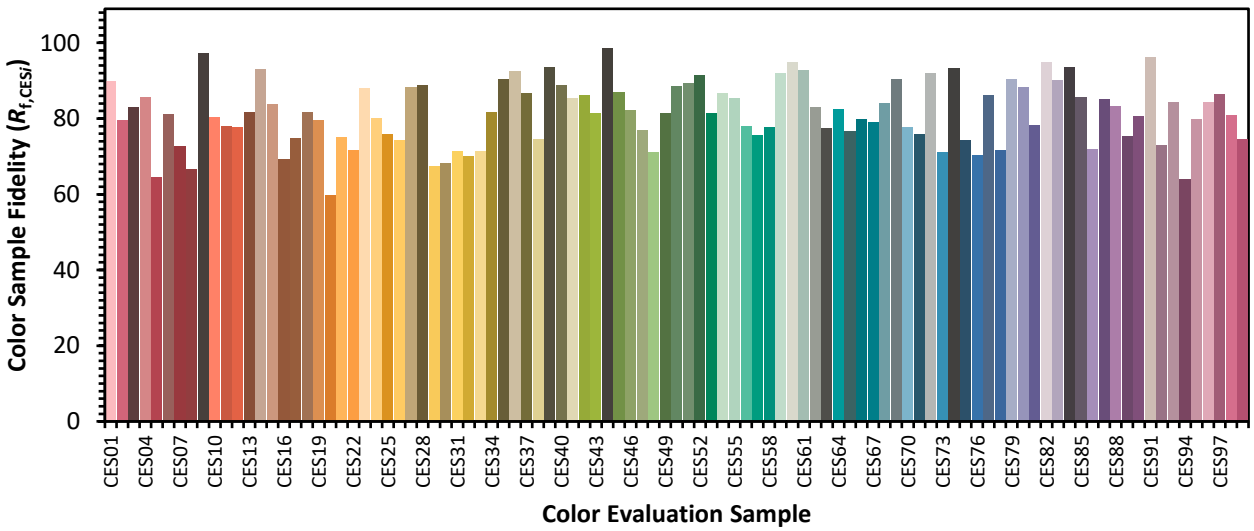
Individual Sample Fidelity Index ($R_{f,i}$)

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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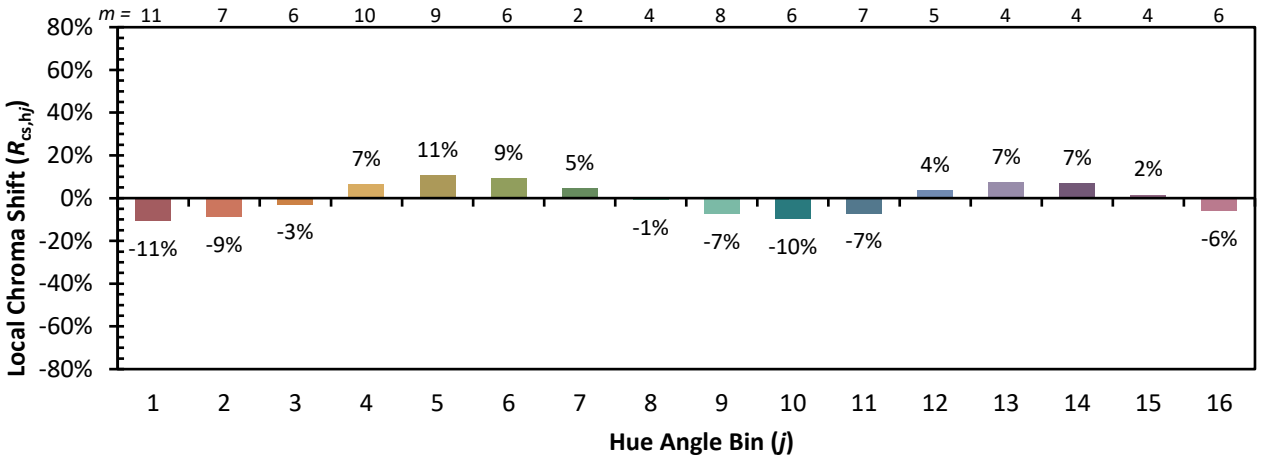
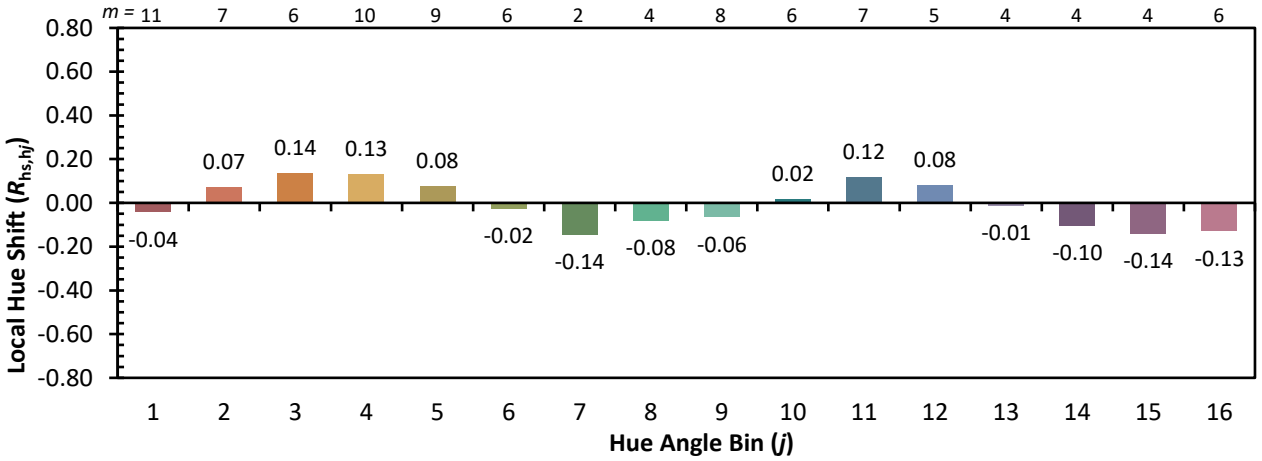
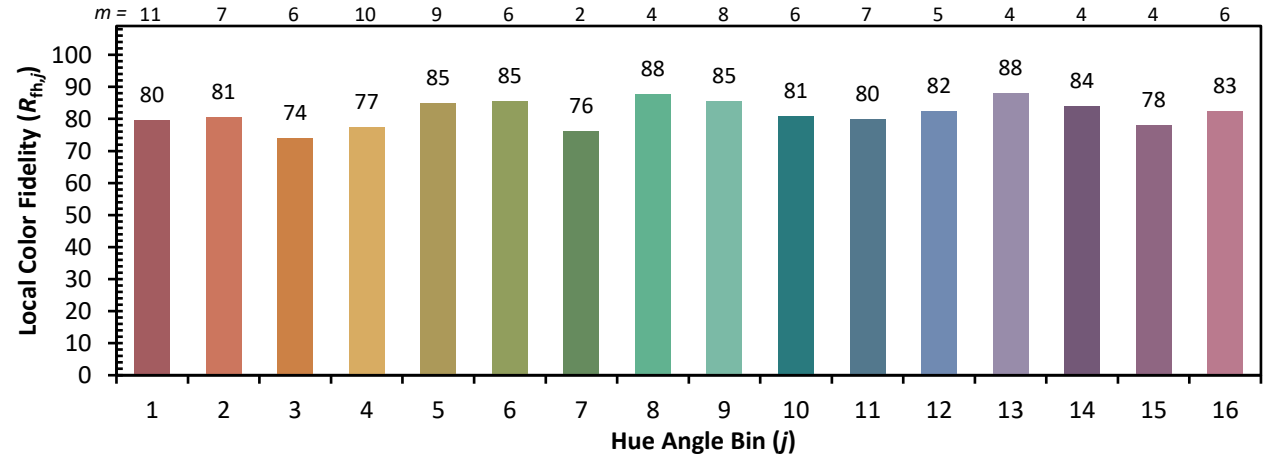
Color Rendition by Hue-Angle Bin







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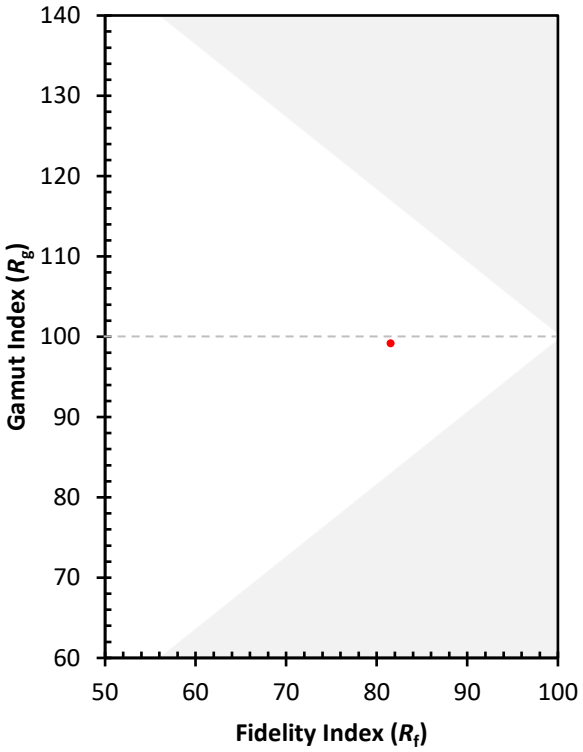
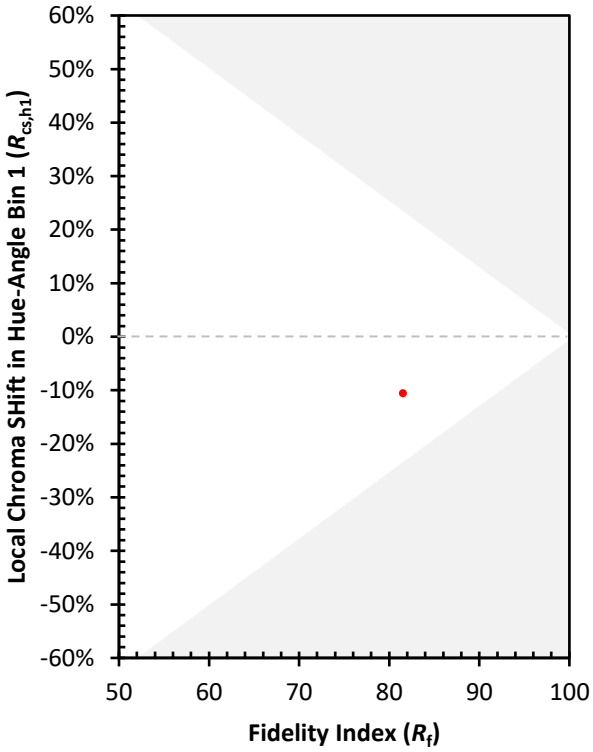
Measure Comparisons





(END OF REPORT)