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: P630051

Luminaire Tested: GWS-SA1C-830-U-RW-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:	P630051
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1C-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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:	2474.7 lumens
Efficiency:	N/A
Efficacy:	72.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	34.1
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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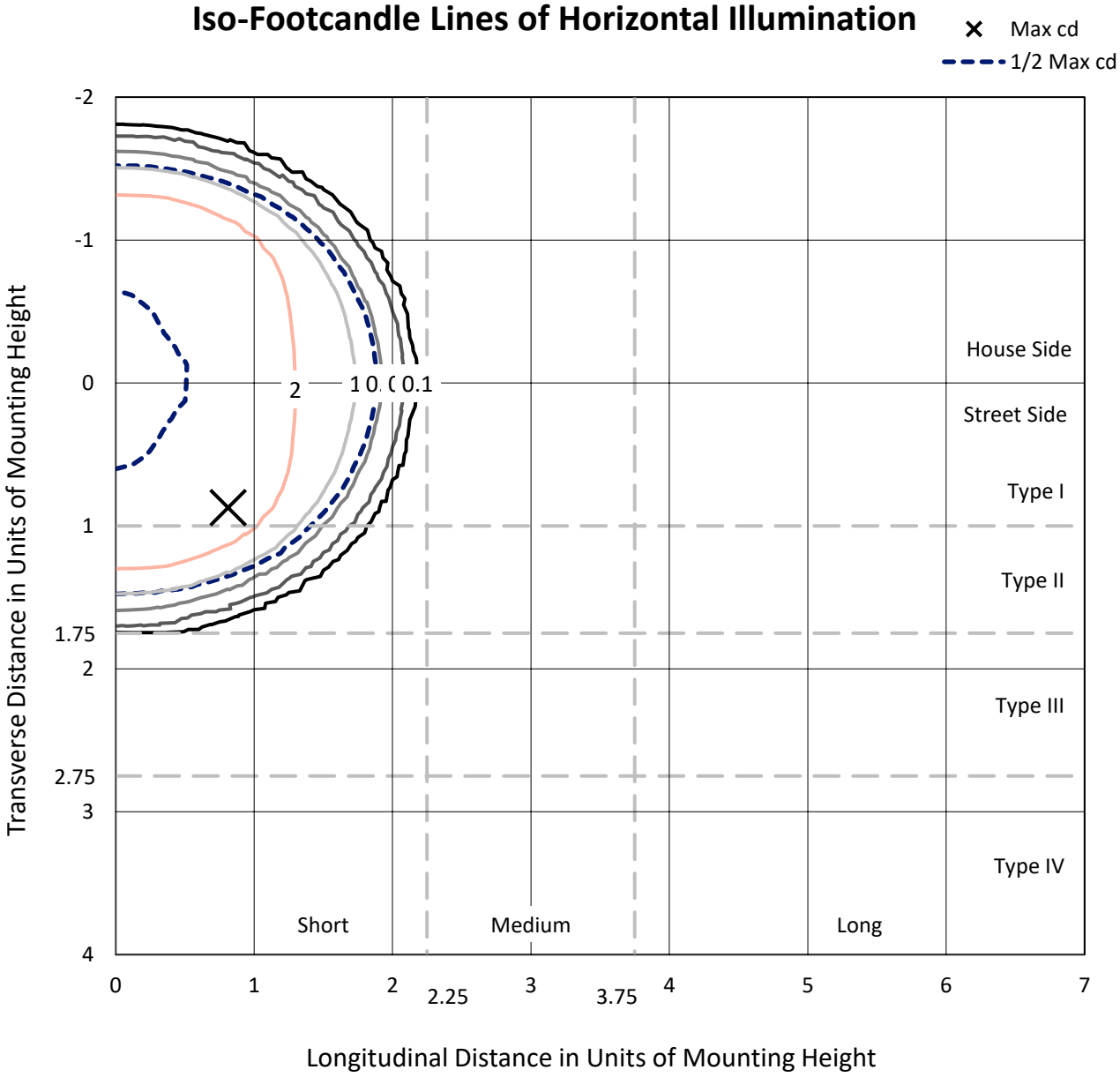
REPORT NUMBER: P630051
CATALOG NUMBER: GWS-SA1C-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
Type V - Short - N/A

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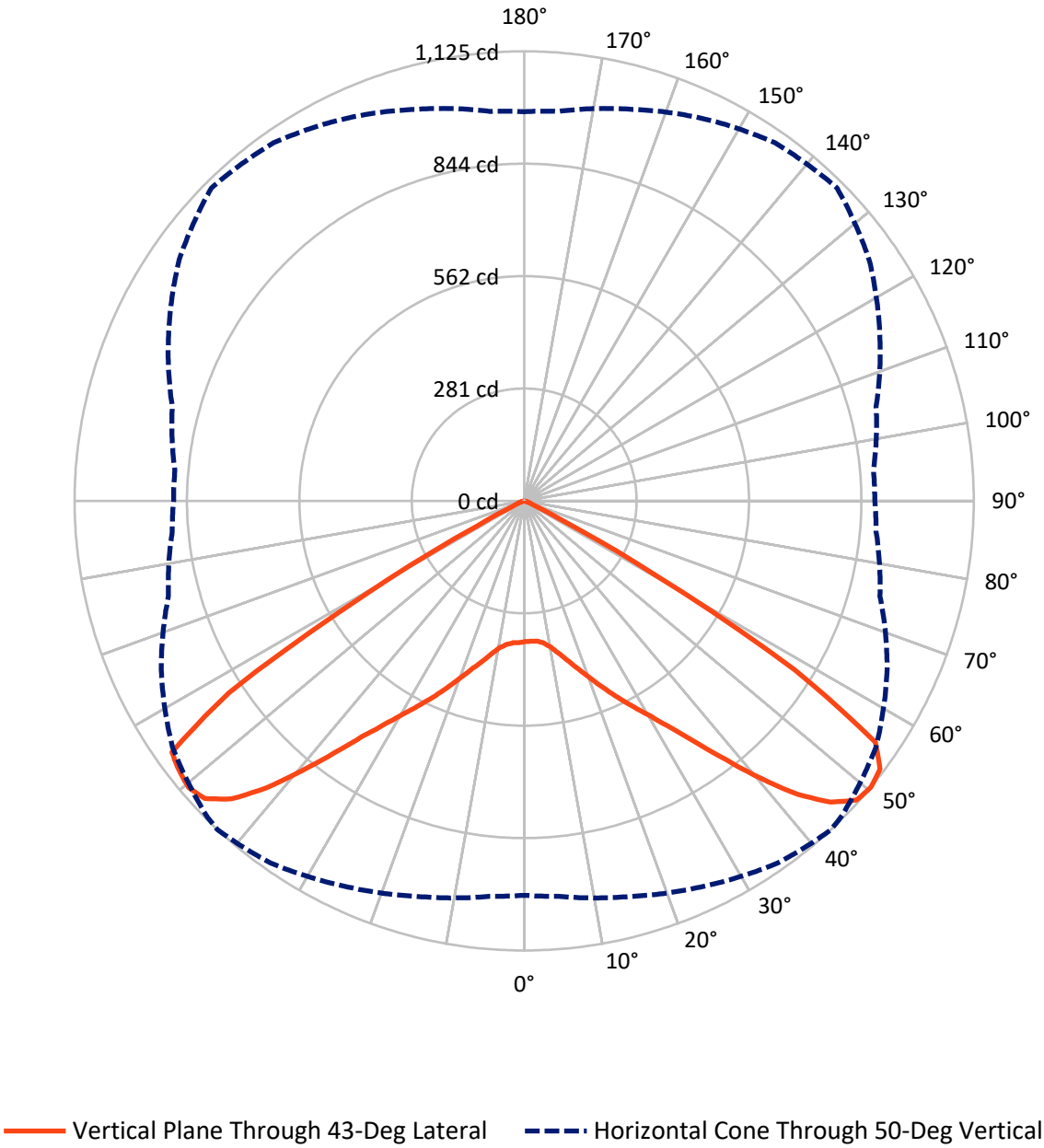
Luminous Intensity Polar Plot



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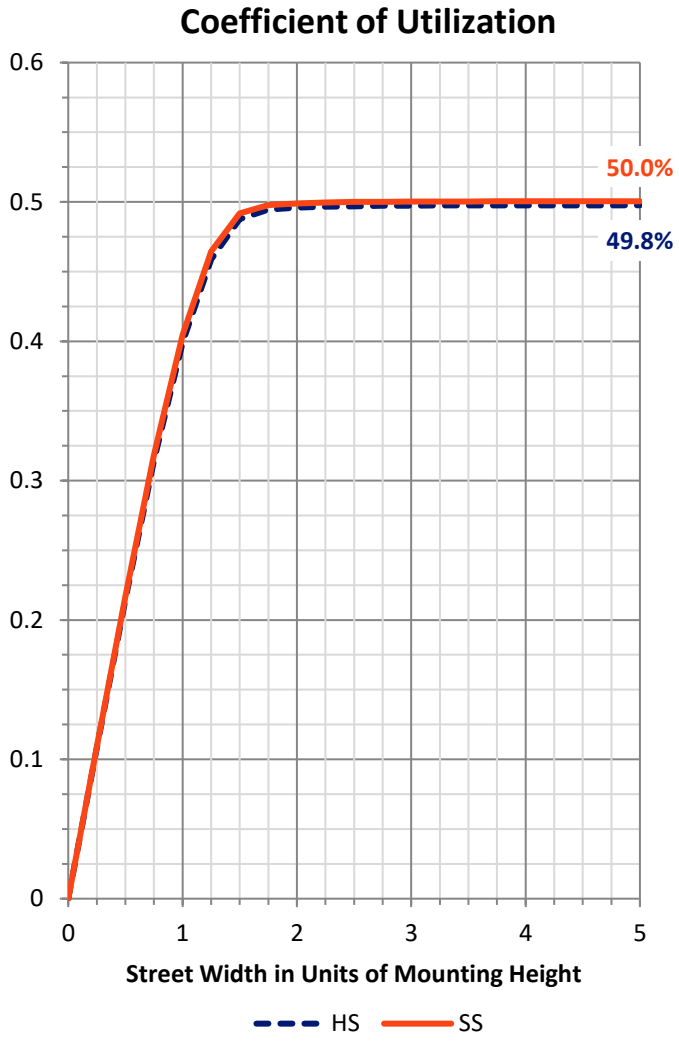
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1237.3	0.0	1237.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1237.4	0.0	1237.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2474.7	0.0	2474.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	1.4
10°-20°	119.3	4.8
20°-30°	241.3	9.8
30°-40°	447.8	18.1
40°-50°	743.2	30.0
50°-60°	758.5	30.7
60°-70°	124.4	5.0
70°-80°	5.4	0.2
80°-90°	0.1	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°	2474.7	100.0
0°-180°	2474.7	100.0



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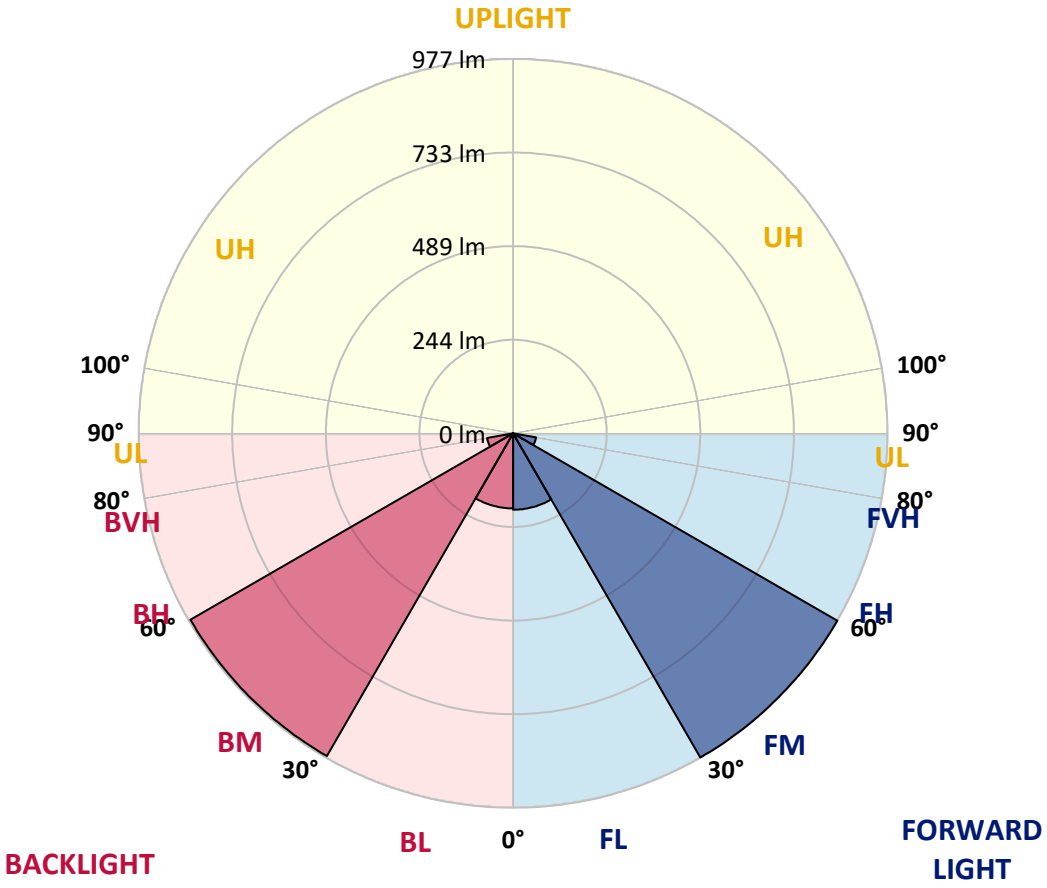
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	199.4	8.1			
FM	(30°-60°)	977.1	39.5			
FH	(60°-80°)	60.8	2.5			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	195.9	7.9	B1/500		
BM	(30°-60°)	972.4	39.3	B1/1000		
BH	(60°-80°)	69.0	2.8	B0/110		G0/660
BVH	(80°-90°)	0.1	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-G0
Type V Short



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REPORT NUMBER: P630051
CATALOG NUMBER: GWS-SA1C-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	352.0	352.0	352.0	352.0	352.0	*352.0*	352.0	352.0	352.0	352.0	352.0
2.5°	345.4	346.2	347.3	348.4	349.8	*351.2*	352.0	354.5	353.9	356.1	356.1
5°	341.6	342.4	343.8	346.2	349.2	*352.3*	354.5	359.4	362.1	366.5	368.1
7.5°	343.5	344.6	346.2	350.1	354.7	*359.4*	361.8	369.8	375.3	383.5	388.1
10°	349.8	350.9	353.6	360.2	366.2	*372.8*	375.8	385.9	394.7	405.9	412.5
12.5°	356.9	358.3	363.8	373.6	384.0	*392.8*	396.9	408.1	417.1	429.7	440.1
15°	364.3	366.5	375.0	389.5	404.3	*416.0*	420.4	432.5	441.5	454.9	466.7
17.5°	381.5	384.0	393.6	409.2	429.4	*443.1*	447.0	459.6	466.4	475.4	487.7
20°	403.2	407.8	419.6	438.5	460.6	*473.8*	476.5	488.8	488.3	492.1	502.8
22.5°	430.0	433.3	446.1	468.6	493.5	*508.0*	514.3	519.5	512.7	509.4	516.2
25°	457.9	461.7	475.7	500.3	528.3	*545.0*	550.2	554.3	543.3	531.0	531.8
27.5°	494.0	496.8	510.5	536.7	564.7	*583.5*	588.2	595.3	580.8	561.1	555.6
30°	537.0	539.7	554.3	581.9	609.5	*625.7*	632.8	641.6	625.7	601.1	594.8
32.5°	587.4	590.1	608.7	637.2	659.9	*677.4*	684.3	693.6	681.0	653.3	646.2
35°	647.6	649.2	671.1	702.1	726.1	*743.1*	747.8	758.7	744.8	717.1	713.3
37.5°	717.4	719.3	743.1	779.0	803.6	*822.5*	829.9	832.9	815.9	785.0	782.0
40°	794.0	800.3	823.6	862.2	889.8	*913.6*	920.2	910.1	886.3	844.1	838.6
42.5°	873.9	879.4	905.4	947.3	979.3	*1003.7*	1004.0	982.1	941.6	883.3	875.0
45°	940.5	942.6	976.3	1018.5	1057.9	*1075.1*	1076.8	1037.1	976.0	906.0	888.5
47.5°	986.2	989.7	1019.0	1059.5	1103.0	*1118.6*	1115.4	1065.8	992.5	920.7	891.7
50°	*986.7*	*992.7*	*1024.5*	*1063.6*	*1105.8*	*1124.7*	*1120.0*	*1074.0*	*1001.8*	*921.3*	*883.8*
52.5°	899.4	909.3	961.0	1017.6	1082.2	*1114.5*	1115.6	1084.7	998.2	912.5	876.7
55°	678.5	689.2	754.3	851.0	975.8	*1065.8*	1081.4	1072.1	994.1	916.4	889.3
57.5°	359.1	350.9	387.0	482.8	639.7	*799.0*	844.7	919.1	948.4	921.0	912.5
60°	78.3	83.5	111.1	149.7	249.6	*375.8*	420.4	548.0	699.6	766.9	815.6
62.5°	33.7	33.1	34.5	39.1	57.2	*95.2*	116.3	190.0	299.7	411.7	487.5
65°	27.6	27.9	29.0	29.0	27.1	*27.4*	28.7	43.5	70.1	98.3	131.9
67.5°	20.8	21.1	23.0	23.5	22.2	*19.7*	19.4	16.4	17.2	21.6	22.4
70°	13.1	13.1	14.2	14.8	14.8	*13.7*	13.4	11.8	11.5	13.1	14.8
72.5°	7.1	7.1	7.7	7.9	7.7	*7.4*	7.4	7.1	6.8	7.9	10.1
75°	3.0	3.0	3.3	3.3	3.0	*3.0*	3.0	3.0	3.0	3.6	5.5
77.5°	0.5	0.8	1.1	0.8	0.5	*0.5*	0.5	0.8	0.8	1.1	1.6
80°	0.3	0.3	0.5	0.3	0.0	*0.0*	0.0	0.0	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.3
85°	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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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REPORT NUMBER: P630051
CATALOG NUMBER: GWS-SA1C-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0
2.5°	358.0	355.0	356.1	356.6	355.8	355.3	352.3	351.4	350.1	347.9	347.3
5°	370.1	367.6	367.3	365.7	361.8	357.2	351.4	349.0	346.2	343.5	343.0
7.5°	390.3	387.3	385.4	379.9	371.1	363.8	354.2	349.0	345.4	341.9	341.0
10°	416.3	412.7	407.3	397.1	385.4	374.7	363.5	356.6	351.2	346.2	346.0
12.5°	444.0	440.1	430.3	417.4	403.2	393.3	379.1	369.5	361.3	353.9	353.1
15°	473.0	468.3	454.9	439.6	426.4	416.3	400.7	385.4	372.8	362.1	361.0
17.5°	495.1	489.4	473.5	462.0	451.3	440.9	423.4	403.2	386.5	373.6	370.6
20°	509.1	503.6	488.6	482.3	477.3	470.0	449.2	428.1	409.5	393.6	390.9
22.5°	522.5	515.9	502.8	502.8	506.6	503.6	481.2	457.1	435.2	416.9	412.7
25°	537.6	532.4	523.1	530.7	540.3	540.0	517.0	486.9	461.7	441.2	437.1
27.5°	559.5	554.3	551.0	565.5	577.5	576.7	551.5	518.9	492.4	472.1	468.3
30°	598.0	593.1	589.6	607.1	622.4	616.7	589.0	557.5	530.7	507.7	505.0
32.5°	649.5	644.3	639.7	657.2	670.9	663.5	637.2	607.6	576.7	554.3	548.8
35°	717.1	706.2	701.5	722.3	728.1	719.8	694.7	668.7	635.8	610.1	606.5
37.5°	786.9	774.0	770.8	788.8	798.1	795.1	765.6	738.5	702.9	674.4	670.3
40°	846.6	834.8	829.1	857.2	878.3	880.2	853.7	820.6	778.7	749.1	741.7
42.5°	881.6	871.5	870.1	913.9	948.4	973.0	941.3	907.1	863.0	829.6	823.6
45°	889.5	883.0	894.5	952.0	1005.6	1050.5	1023.4	987.3	939.6	904.3	898.6
47.5°	888.7	886.5	907.1	971.7	1039.5	1094.8	1081.4	1040.6	994.7	957.7	952.2
50°	*877.0*	*877.2*	*911.4*	*981.5*	*1053.2*	*1106.9*	*1093.5*	*1055.7*	*1014.6*	*978.2*	*973.8*
52.5°	872.3	870.7	903.2	978.5	1067.2	1101.4	1071.3	1028.9	983.2	938.3	931.7
55°	888.7	884.6	904.3	976.0	1068.8	1098.4	1019.0	927.0	833.4	780.3	776.0
57.5°	913.4	909.0	918.3	958.0	983.2	913.4	750.0	601.6	505.3	464.5	446.7
60°	815.6	812.6	805.5	757.6	649.8	490.2	333.9	212.9	153.0	123.7	123.7
62.5°	506.1	502.0	463.4	344.3	250.2	144.8	79.6	49.8	37.8	35.3	35.0
65°	142.1	141.2	116.9	82.7	52.6	32.6	28.7	29.3	28.7	27.9	27.6
67.5°	21.3	23.5	23.5	19.2	18.3	20.5	24.1	25.7	24.4	23.0	22.4
70°	13.7	14.8	14.2	12.3	13.1	15.3	17.2	17.5	16.7	15.3	15.1
72.5°	9.6	10.7	8.8	7.9	8.2	9.0	9.9	9.9	9.6	9.0	8.5
75°	5.7	5.7	4.1	3.8	3.8	4.1	4.1	4.7	4.7	4.4	4.1
77.5°	1.9	2.2	1.4	1.1	1.1	1.1	1.4	1.6	1.6	1.4	1.1
80°	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.3
82.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	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

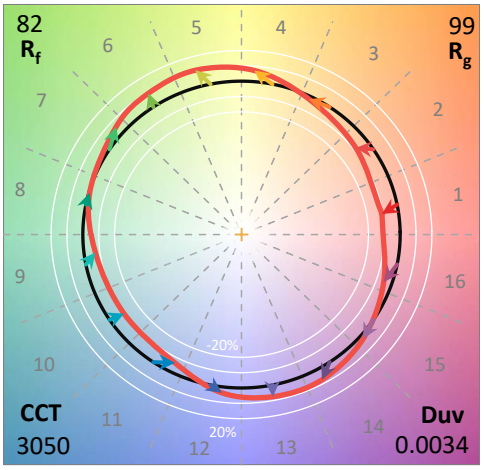
Test Information

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

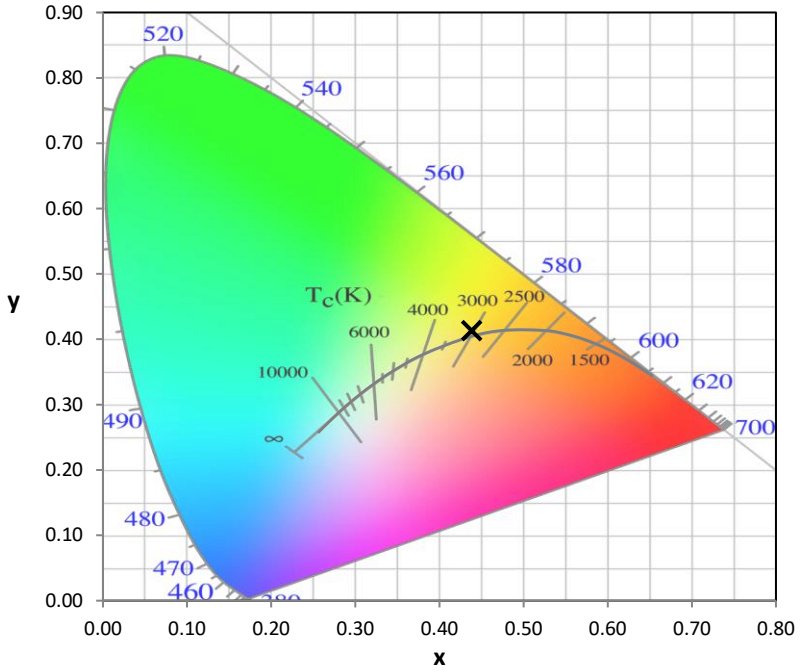
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

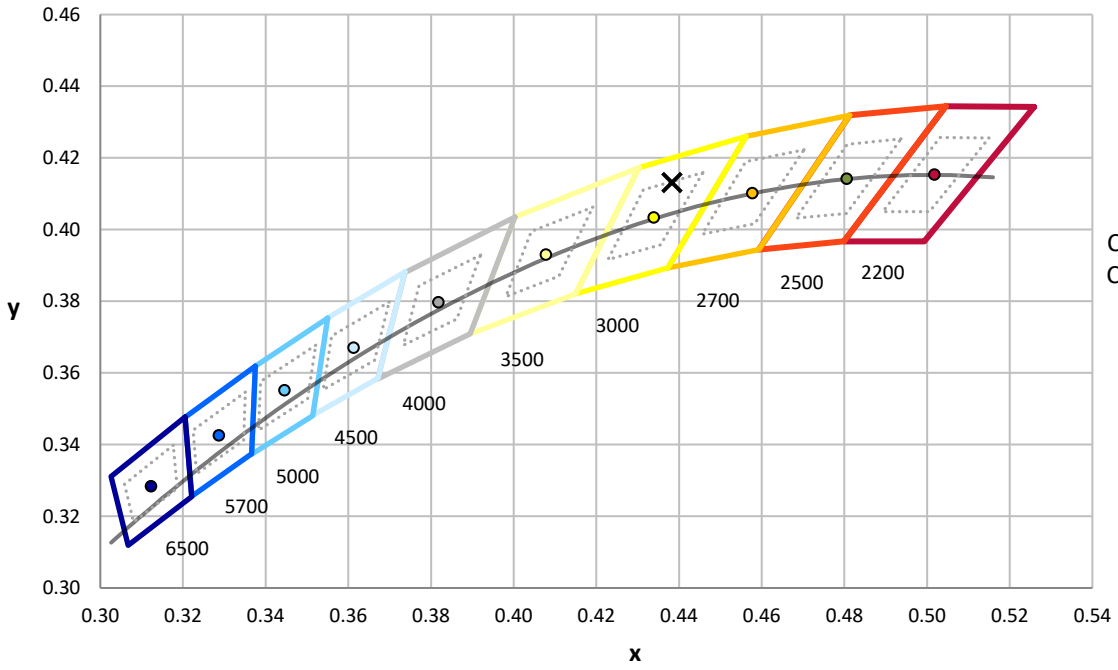
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

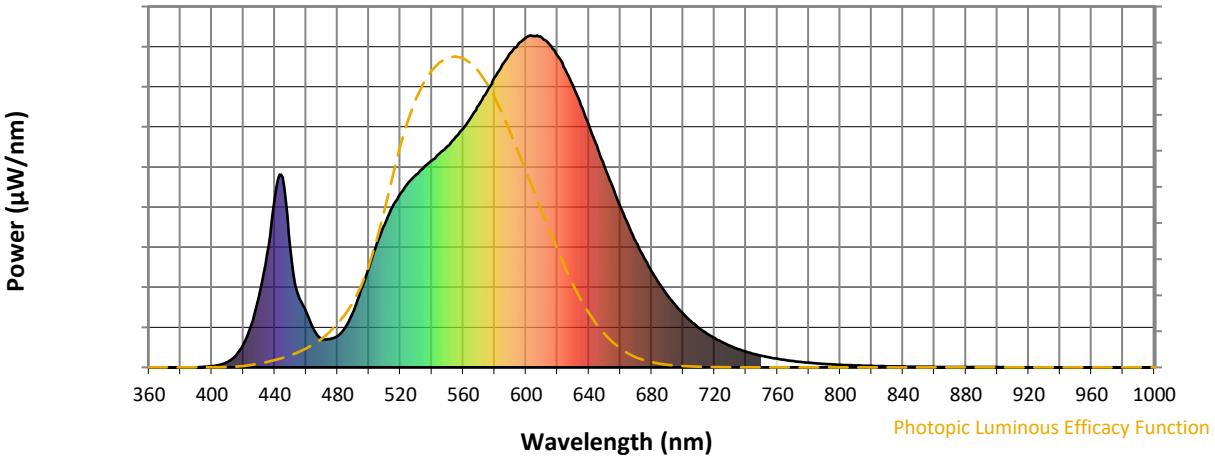


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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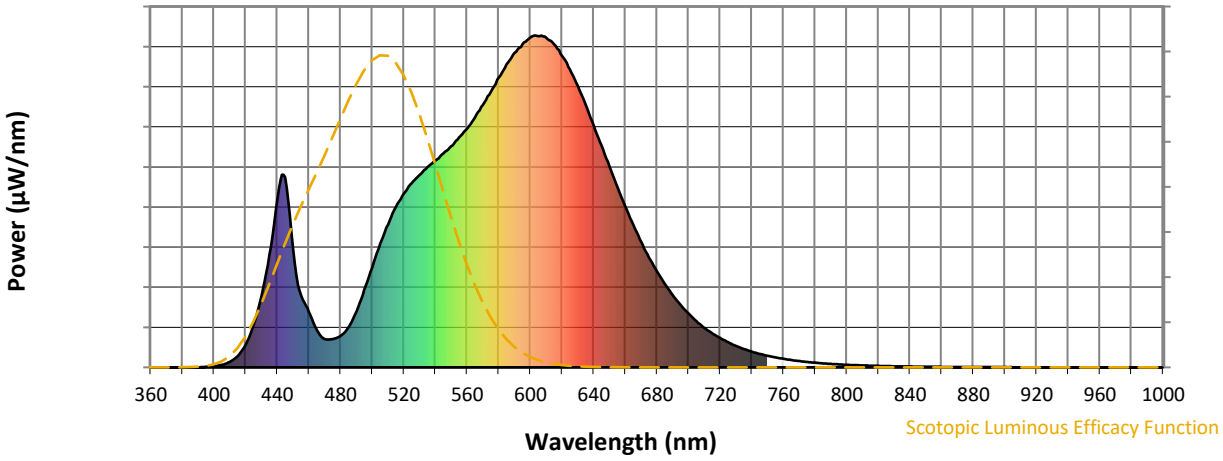
Scotopic Flux vs. Wavelength



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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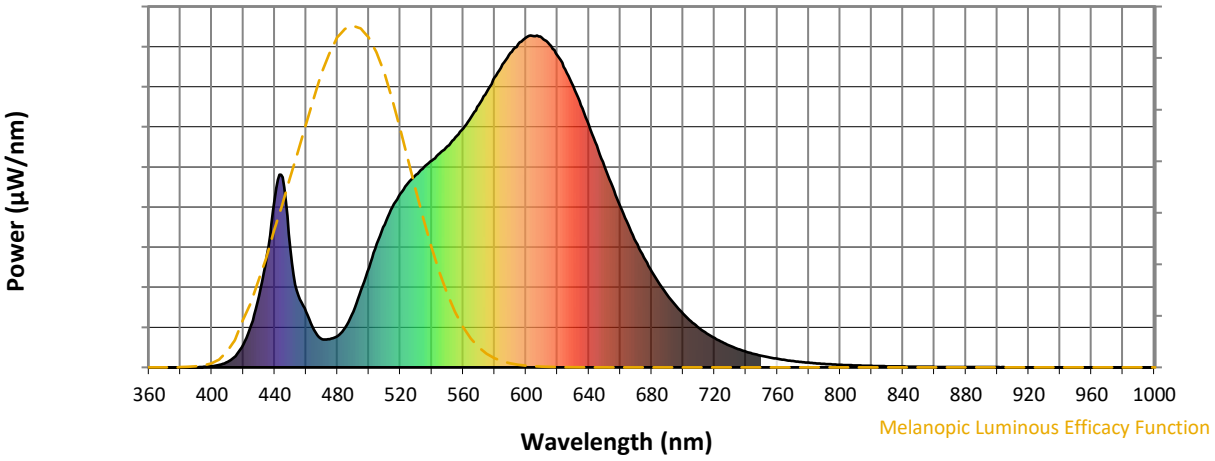
Melanopic Flux vs. Wavelength



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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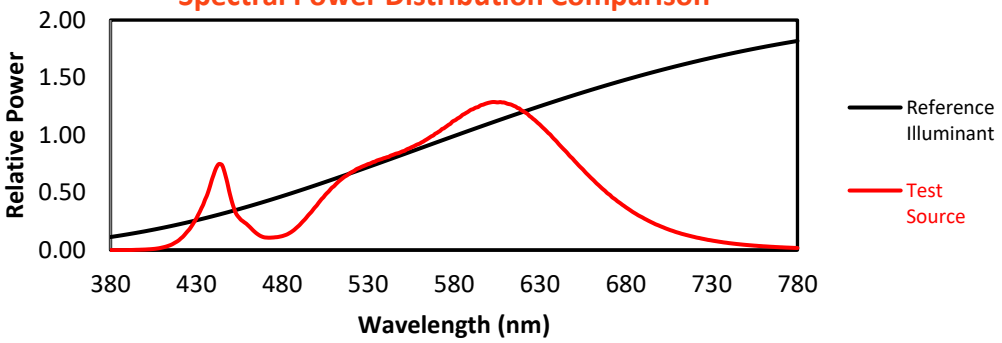
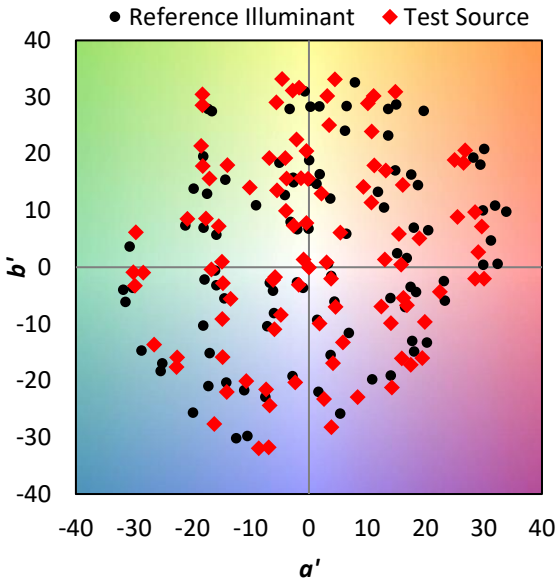
Summary

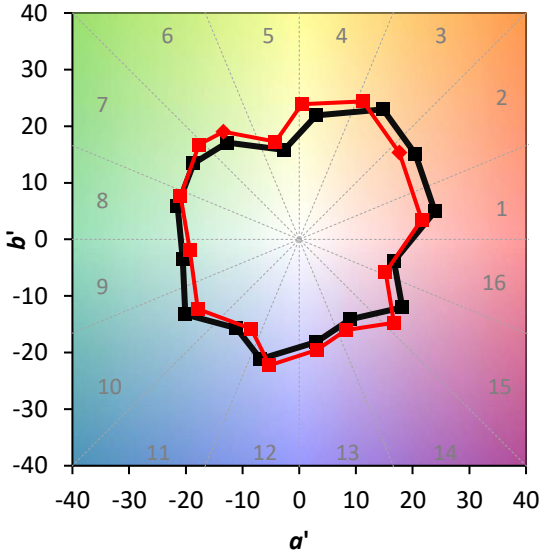
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

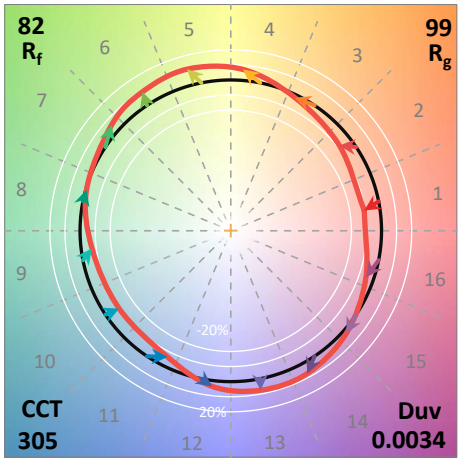
Spectral Power Distribution Comparison

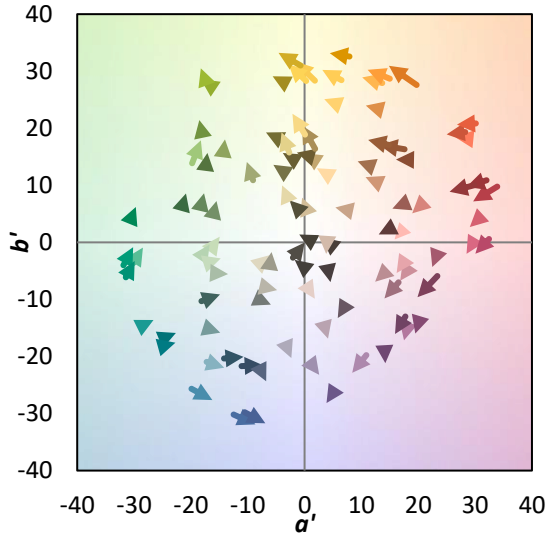


Color Vector Graphics









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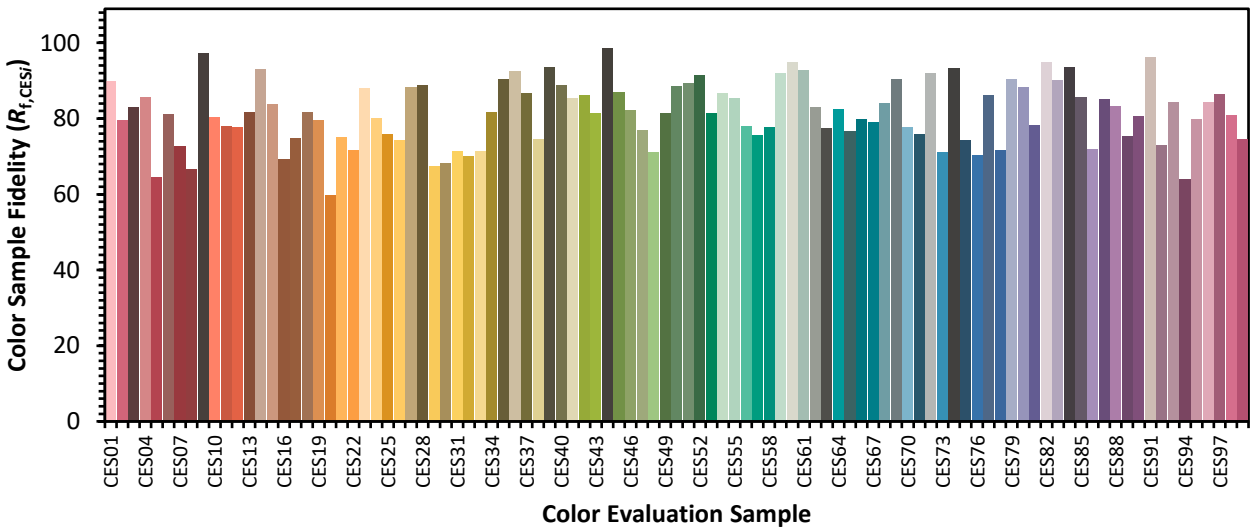
Individual Sample Fidelity Index ($R_{f,i}$)

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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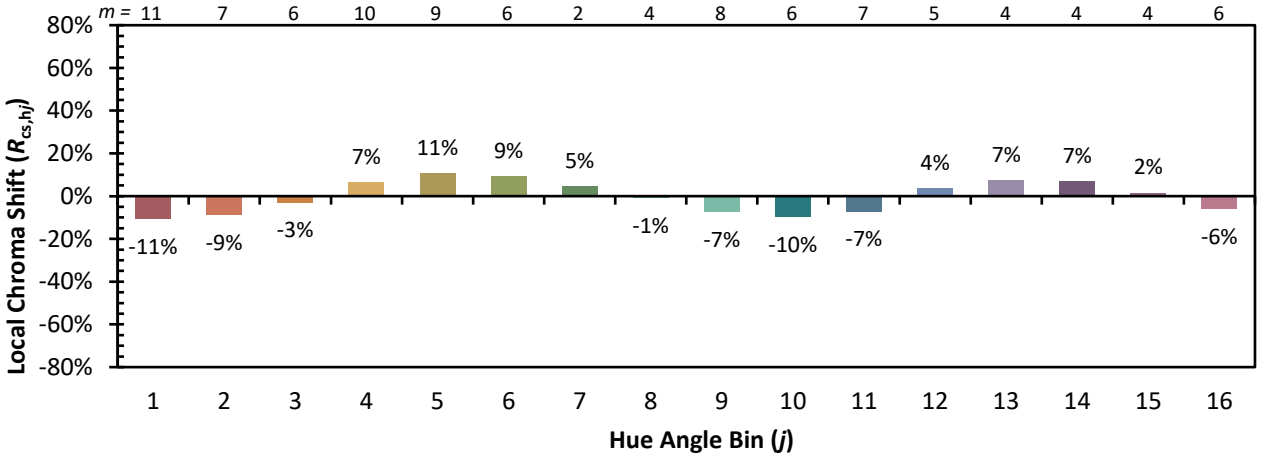
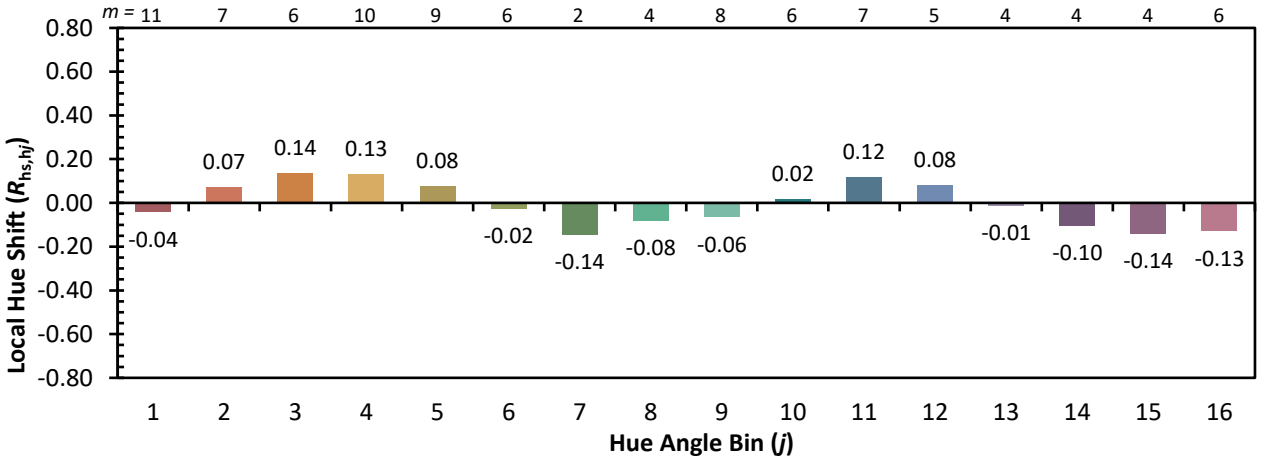
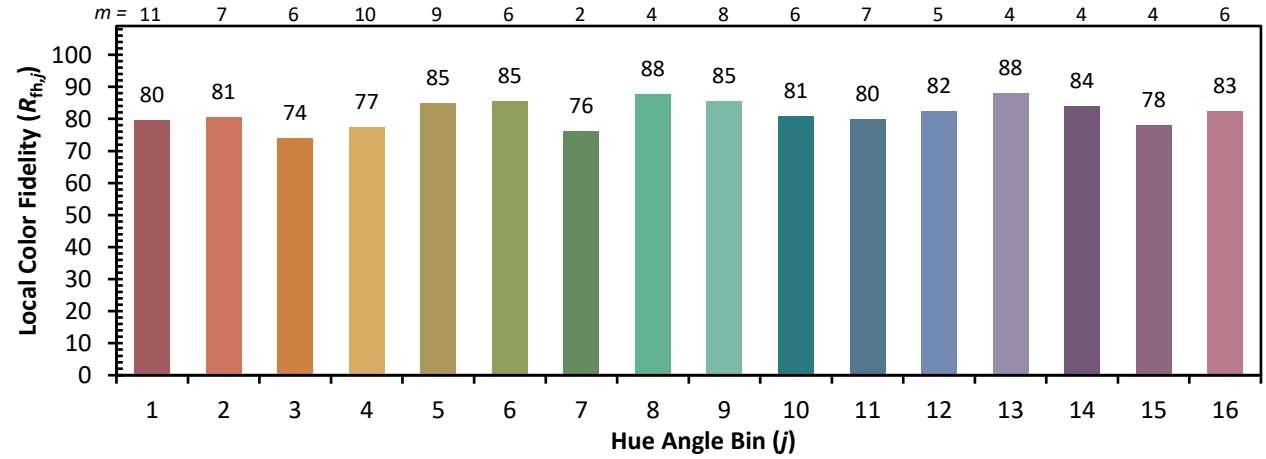
Color Rendition by Hue-Angle Bin







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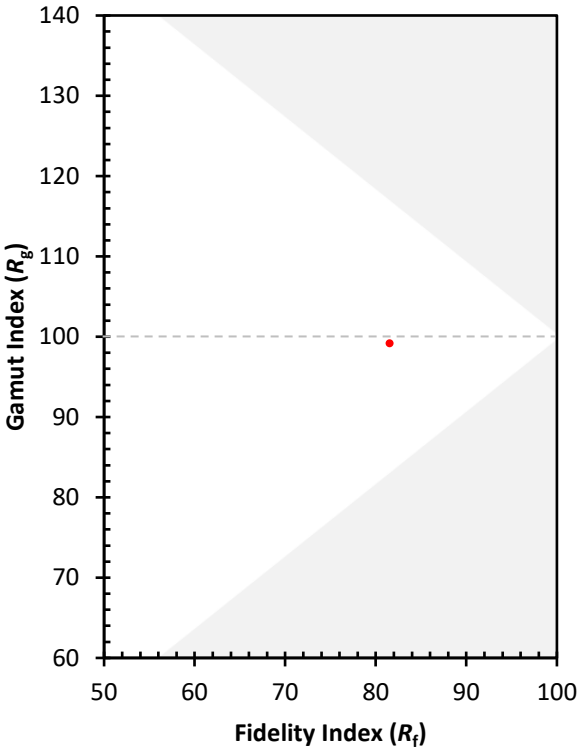
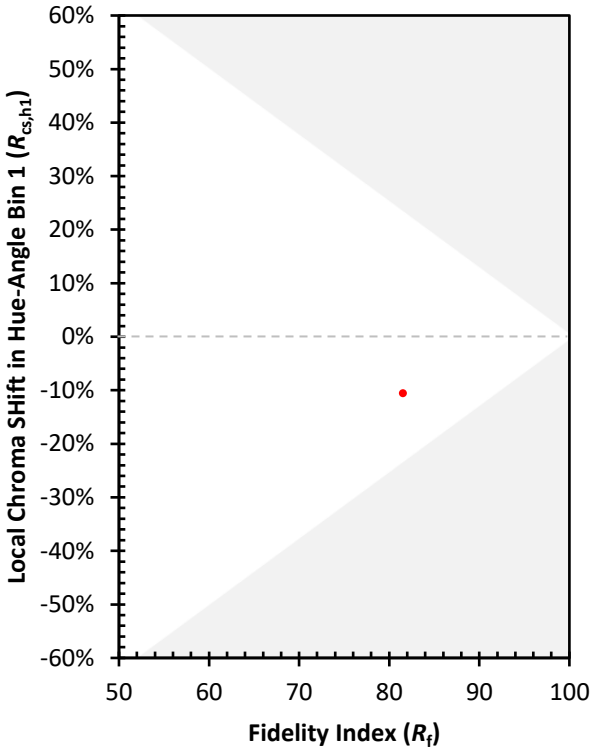
Measure Comparisons





(END OF REPORT)