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: P630052

Luminaire Tested: GWS-SA1C-830-U-RW-W-GRSWH

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:	P630052
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
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-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3366 lumens
Efficiency:	N/A
Efficacy:	98.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - 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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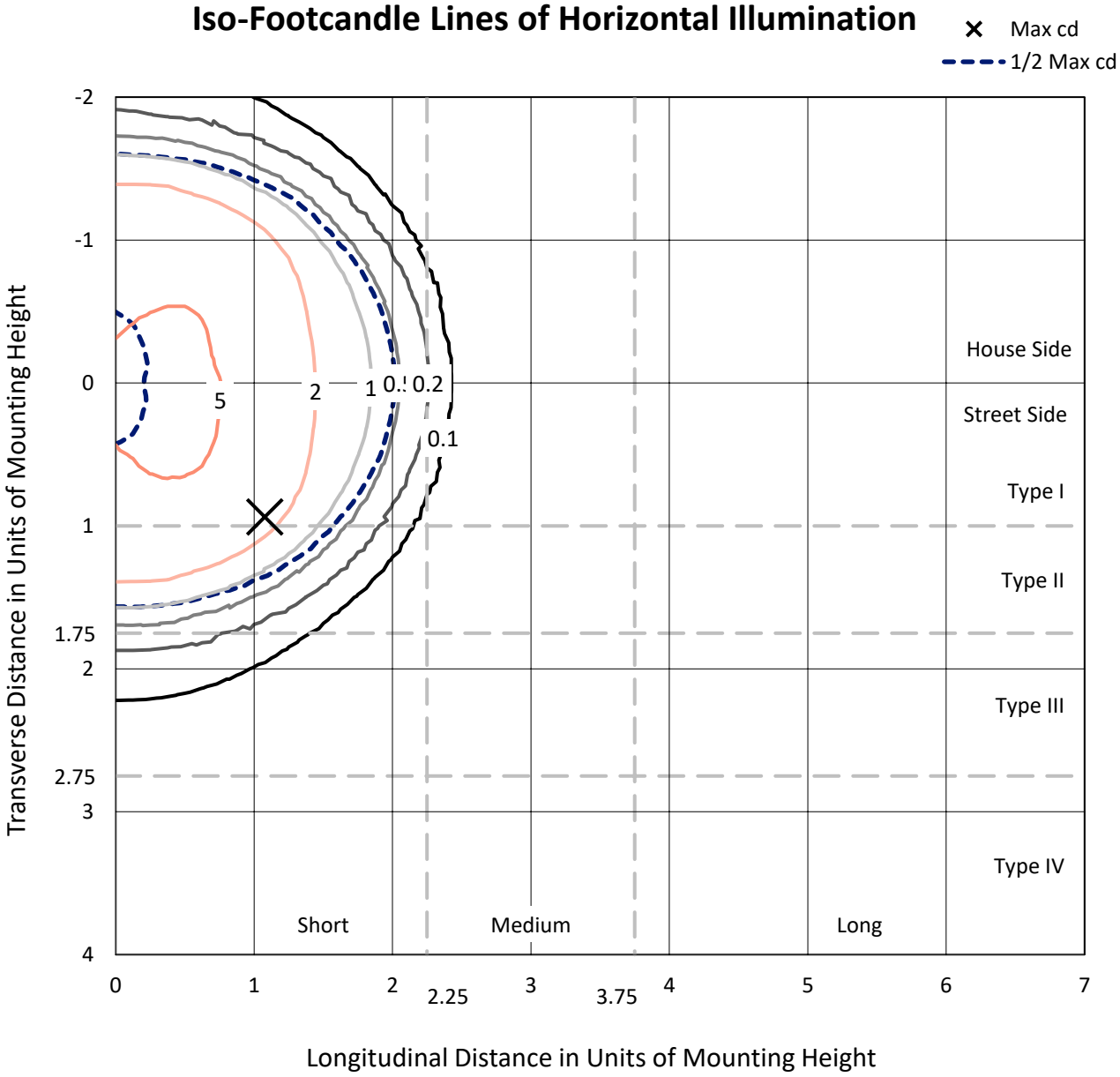
REPORT NUMBER: P630052
CATALOG NUMBER: GWS-SA1C-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

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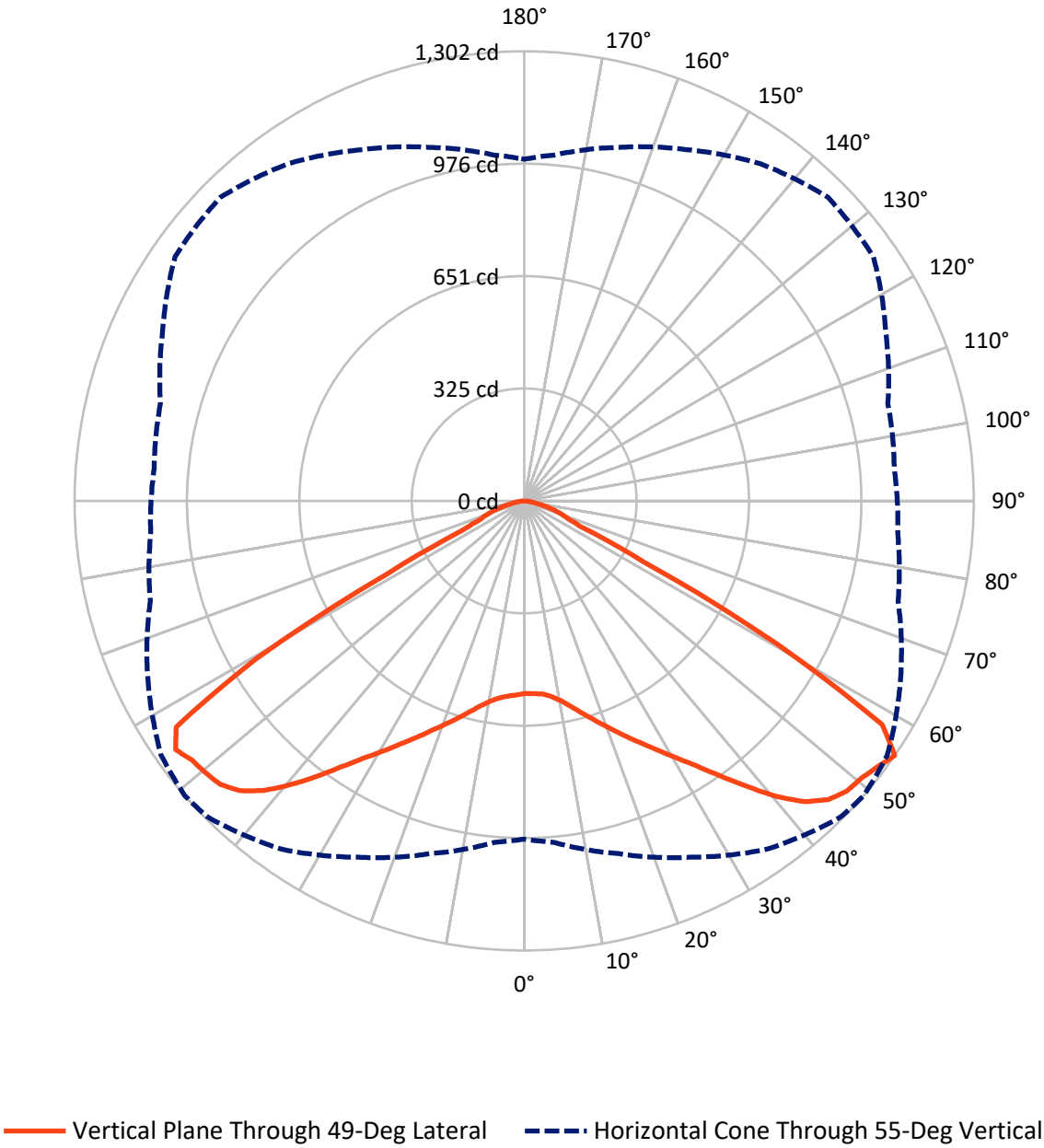
Luminous Intensity Polar Plot



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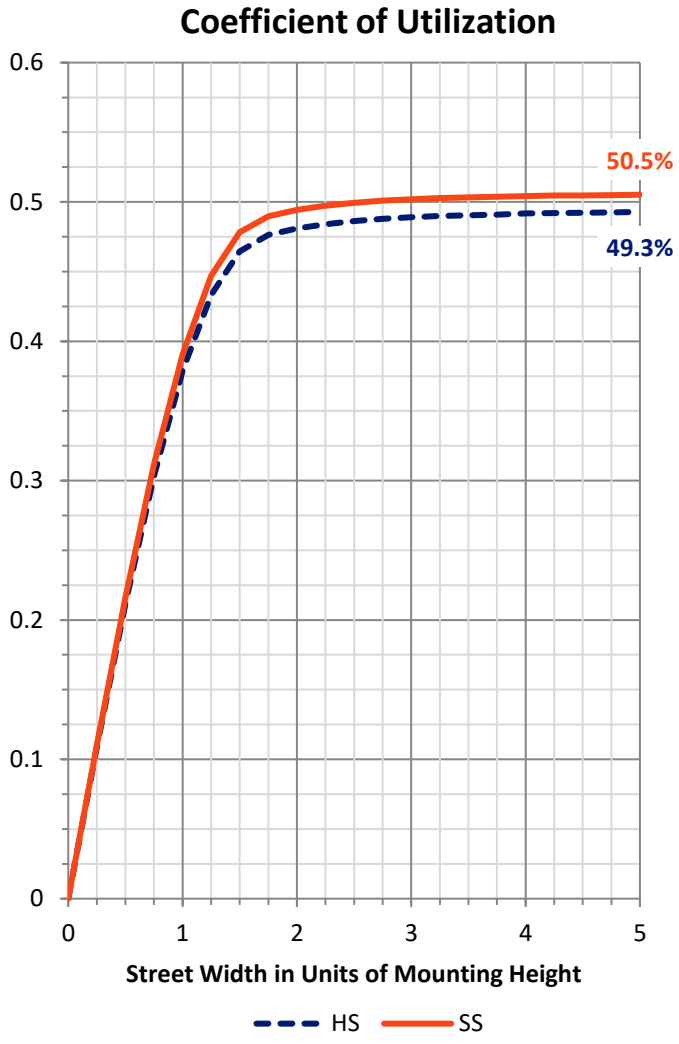
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1666.5	0.0	1666.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	1699.5	0.0	1699.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	3366.0	0.0	3366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.6
10°-20°	179.4	5.3
20°-30°	341.7	10.2
30°-40°	579.3	17.2
40°-50°	871.8	25.9
50°-60°	954.3	28.4
60°-70°	301.8	9.0
70°-80°	72.4	2.2
80°-90°	10.9	0.3
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°	3366.0	100.0
0°-180°	3366.0	100.0



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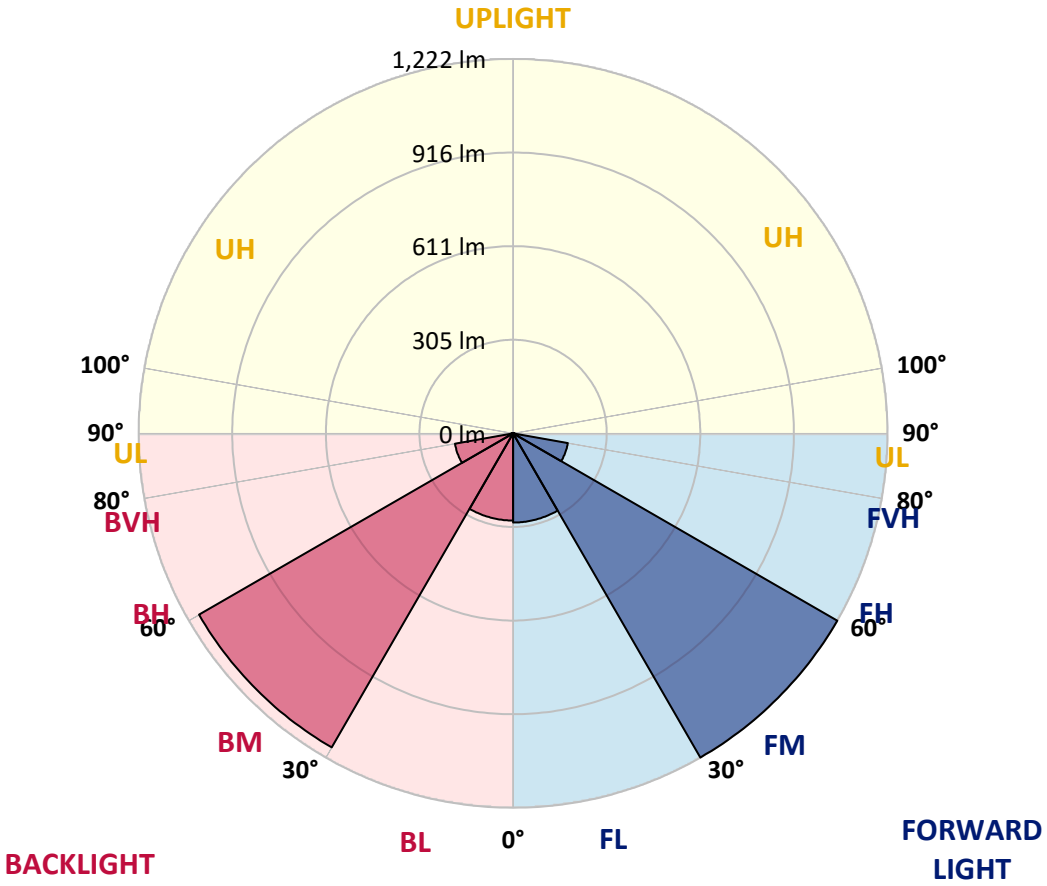
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	291.0	8.6			
FM	(30°-60°)	1222.0	36.3			
FH	(60°-80°)	181.5	5.4			G0/660
FVH	(80°-90°)	5.0	0.1			G0/10
BL	(0°-30°)	284.5	8.5	B1/500		
BM	(30°-60°)	1183.5	35.2	B2/2500		
BH	(60°-80°)	192.7	5.7	B1/500		G0/660
BVH	(80°-90°)	5.8	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type V Short



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REPORT NUMBER: P630052
CATALOG NUMBER: GWS-SA1C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
2.5°	549.4	549.9	551.0	552.9	554.9	557.6	558.7	560.1	559.8	561.4	561.4
5°	546.6	547.5	549.1	551.8	555.1	560.3	561.7	565.0	568.3	572.4	573.7
7.5°	549.9	551.0	552.9	557.3	562.3	569.1	571.8	577.3	583.6	591.0	594.0
10°	556.2	557.6	560.9	568.0	575.9	586.3	588.8	595.6	605.8	615.9	621.9
12.5°	563.3	565.5	571.6	582.8	594.6	608.2	612.1	620.6	631.5	644.6	652.9
15°	571.6	573.5	582.8	598.7	617.0	635.1	639.4	647.7	660.0	672.8	684.3
17.5°	588.8	592.1	603.0	621.4	642.7	664.1	669.0	678.3	688.2	698.3	709.2
20°	612.3	615.1	629.0	651.8	676.9	696.4	701.3	709.5	714.2	719.4	728.7
22.5°	635.9	639.7	655.6	682.4	712.0	733.1	736.9	744.6	741.3	739.6	745.7
25°	665.2	670.4	686.0	715.3	745.4	771.4	774.4	781.0	775.5	767.0	766.7
27.5°	701.6	706.2	722.4	752.5	782.3	809.4	815.2	823.9	811.9	801.5	794.1
30°	744.8	747.8	765.6	797.7	828.3	854.1	861.4	870.2	861.2	843.9	836.5
32.5°	795.2	799.3	819.8	853.5	880.9	906.6	914.0	925.0	915.1	895.7	886.4
35°	855.7	859.8	881.4	918.1	946.0	972.6	977.8	986.8	974.5	952.1	944.7
37.5°	921.4	926.6	954.0	988.7	1018.0	1049.0	1049.2	1052.0	1034.4	1006.5	998.3
40°	995.3	1002.1	1029.5	1065.7	1101.0	1126.1	1125.9	1118.2	1088.6	1045.4	1032.8
42.5°	1068.4	1073.9	1101.5	1138.7	1174.0	1197.9	1190.7	1172.1	1129.4	1070.6	1053.9
45°	1121.2	1125.3	1154.3	1196.2	1232.1	1246.9	1234.0	1211.6	1153.8	1086.5	1061.8
47.5°	1146.1	1151.6	1180.9	1222.5	1263.0	1271.5	1256.2	1235.1	1168.0	1101.2	1068.1
50°	1132.7	1139.8	1173.0	1211.6	1257.3	1274.8	1263.8	1242.8	1183.1	1115.7	1079.3
52.5°	1098.0	1104.8	1146.7	1193.5	1245.2	1280.0	1279.7	1262.5	1200.3	1119.9	1079.9
55°	979.2	992.6	1057.7	1138.5	1230.4	1295.3	1301.9	1283.5	1203.1	1120.9	1085.6
57.5°	637.3	660.8	722.7	827.8	1012.3	1178.2	1222.5	1226.9	1183.4	1116.3	1086.7
60°	266.1	285.0	334.0	403.8	556.2	753.6	839.5	925.8	1029.8	1067.6	1076.6
62.5°	165.3	167.0	171.9	187.8	238.7	335.1	390.3	471.1	625.8	757.4	818.2
65°	149.2	150.0	151.1	150.0	152.5	164.2	179.0	207.2	270.2	335.6	413.3
67.5°	131.4	132.5	133.3	132.5	133.3	133.9	135.5	138.0	149.5	158.8	165.9
70°	106.2	107.9	109.2	108.7	112.0	112.0	113.6	115.5	121.3	128.1	133.0
72.5°	81.0	79.7	81.3	81.8	84.9	86.5	89.0	91.2	97.7	101.8	108.1
75°	52.6	51.2	53.7	55.0	59.1	61.3	63.5	65.7	70.3	73.1	79.1
77.5°	28.5	28.2	30.7	32.6	37.0	39.7	41.3	43.0	46.8	47.6	51.5
80°	16.4	16.4	18.1	19.4	22.2	25.2	26.8	28.2	30.9	31.8	33.4
82.5°	9.0	9.0	9.9	10.7	12.9	14.5	15.9	17.0	19.4	20.3	21.1
85°	4.4	4.1	4.7	5.2	6.0	6.8	7.7	8.2	10.1	10.7	11.8
87.5°	0.5	0.5	0.5	0.8	1.1	1.6	1.9	1.9	3.0	3.6	4.1
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: P630052
CATALOG NUMBER: GWS-SA1C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
2.5°	563.1	559.5	561.7	562.5	562.5	561.7	558.1	557.1	555.4	552.9	552.9
5°	575.7	572.9	573.5	572.1	568.8	564.7	558.1	554.9	552.1	549.1	548.8
7.5°	597.3	593.7	593.2	588.0	579.2	570.5	560.6	554.6	550.5	546.6	546.4
10°	625.5	622.2	618.1	607.7	594.8	582.0	568.5	560.3	554.3	548.8	548.6
12.5°	657.0	653.1	645.5	630.1	614.0	601.4	586.1	573.5	564.4	557.1	555.7
15°	691.2	685.7	672.6	654.5	638.6	625.2	608.8	590.7	577.0	565.3	563.9
17.5°	717.5	710.3	696.1	679.1	666.0	652.6	631.2	608.5	588.8	574.0	571.8
20°	735.5	729.8	713.6	701.0	693.4	681.6	656.7	631.0	608.8	590.2	589.1
22.5°	752.2	745.4	729.5	722.1	722.1	714.2	690.4	660.0	634.0	612.3	609.6
25°	771.1	763.7	751.7	750.9	754.7	751.1	722.4	689.8	659.4	635.1	630.7
27.5°	797.4	789.2	782.1	787.0	792.5	788.6	756.6	718.8	686.8	662.2	658.3
30°	839.3	829.1	822.6	828.6	839.3	828.0	793.3	753.3	721.0	693.9	692.0
32.5°	888.0	876.5	869.7	879.2	888.8	871.3	836.8	798.5	764.5	736.1	732.8
35°	946.6	932.1	921.9	934.8	944.7	927.4	893.2	856.8	819.0	789.5	785.1
37.5°	998.6	981.1	974.2	992.3	1005.4	994.2	957.0	922.8	881.4	849.1	847.2
40°	1036.4	1019.1	1014.2	1044.0	1067.0	1064.3	1030.9	991.7	952.9	915.6	912.1
42.5°	1052.8	1040.7	1041.8	1082.1	1117.7	1135.2	1105.3	1063.5	1026.0	987.4	984.9
45°	1056.3	1049.0	1057.7	1108.1	1154.9	1190.7	1165.3	1130.3	1087.8	1050.6	1049.5
47.5°	1060.2	1056.1	1069.5	1122.9	1178.4	1220.0	1205.8	1169.7	1126.7	1090.3	1087.5
50°	1069.2	1067.6	1082.6	1133.3	1189.7	1228.0	1211.8	1176.0	1131.9	1096.0	1089.5
52.5°	1071.9	1069.2	1090.8	1149.4	1208.3	1227.7	1192.9	1146.1	1101.8	1061.8	1055.0
55°	*1080.4*	*1075.5*	*1090.3*	*1155.4*	*1234.0*	*1243.6*	*1191.8*	*1121.8*	*1059.9*	*1005.4*	*989.3*
57.5°	1082.6	1077.1	1086.7	1145.6	1206.1	1197.6	1047.6	905.2	788.6	728.1	735.0
60°	1070.9	1072.5	1056.1	1049.5	967.4	854.1	641.4	512.7	402.7	356.1	366.3
62.5°	815.2	822.0	765.9	666.0	512.2	405.9	268.5	208.6	176.6	168.3	169.7
65°	411.4	420.7	362.4	299.7	222.8	180.1	155.8	150.8	149.2	147.3	147.3
67.5°	162.9	165.6	163.4	153.0	142.3	138.5	137.4	136.9	135.0	133.9	134.1
70°	130.8	133.0	129.8	123.2	118.8	118.5	118.0	116.9	115.5	115.5	116.3
72.5°	106.8	108.9	104.3	100.2	96.9	94.4	93.1	92.2	90.3	90.3	91.2
75°	78.6	79.9	76.1	75.6	72.0	69.5	67.3	66.2	63.8	62.7	63.5
77.5°	52.3	52.0	50.1	50.1	48.7	45.7	43.3	40.8	37.5	35.3	35.9
80°	33.9	33.9	33.1	33.1	31.8	29.3	26.3	23.8	21.9	20.3	20.3
82.5°	21.6	21.4	21.1	20.8	20.3	17.8	15.6	14.0	12.6	11.5	11.8
85°	12.0	12.0	11.5	11.5	10.4	9.0	7.9	6.8	6.0	5.7	5.7
87.5°	4.1	4.1	3.8	3.8	3.3	2.5	1.9	1.6	1.4	1.1	1.4
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

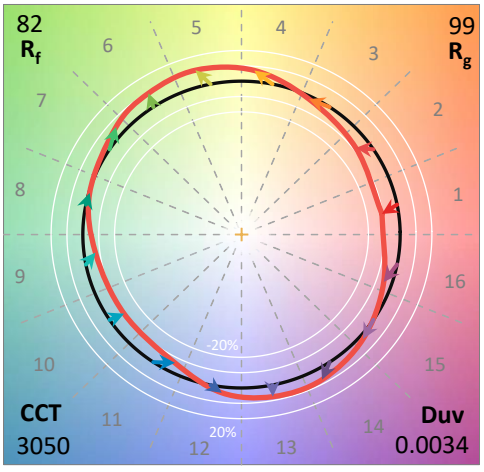
Test Information

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

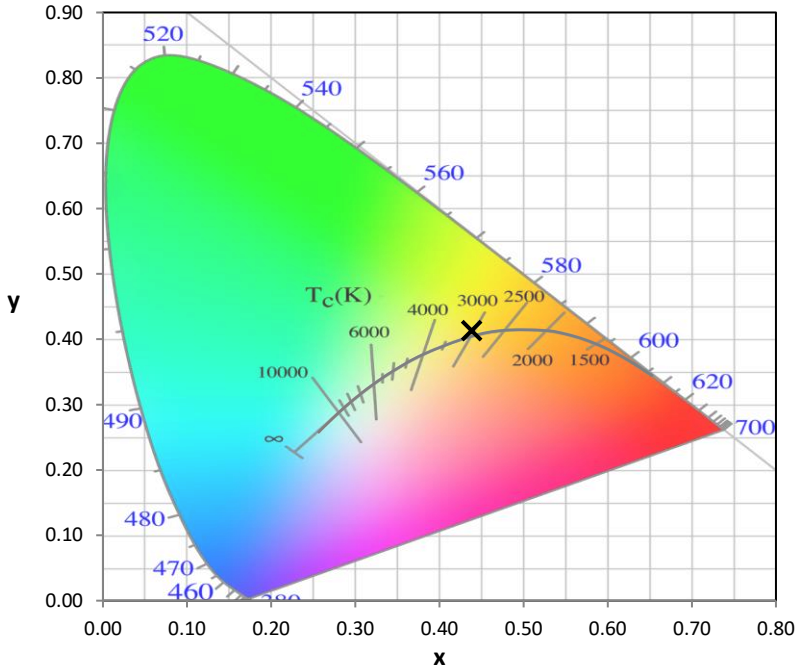
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

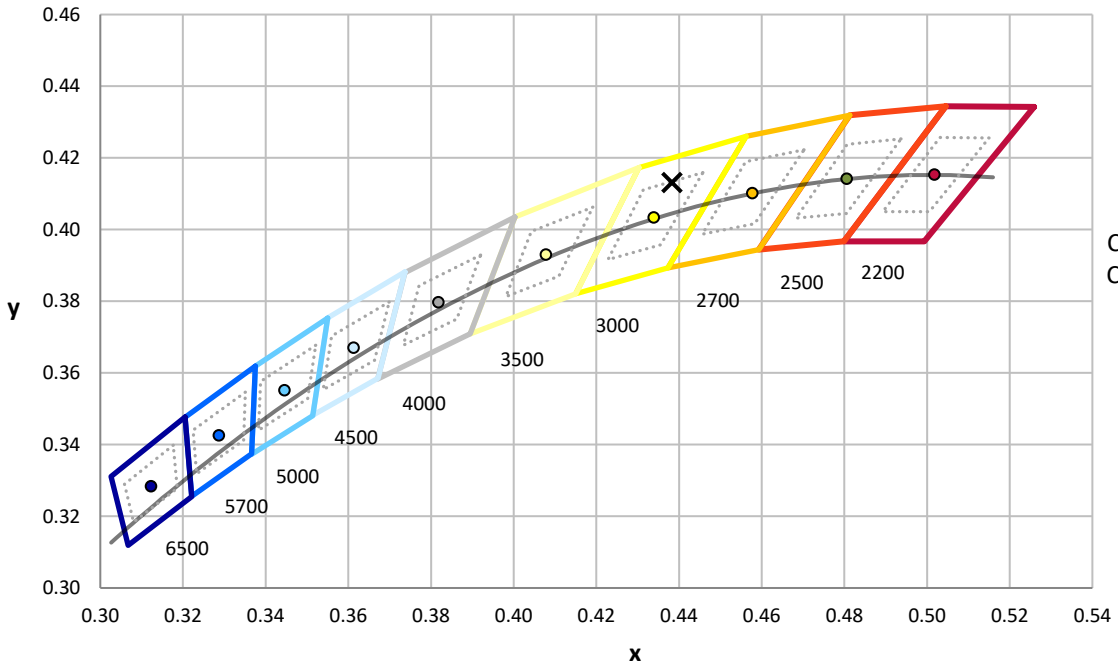
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

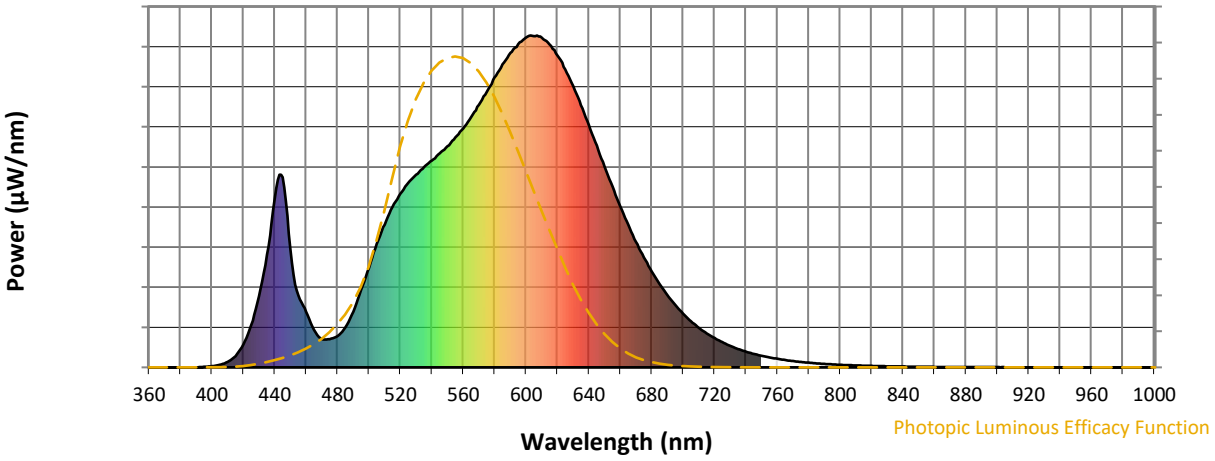


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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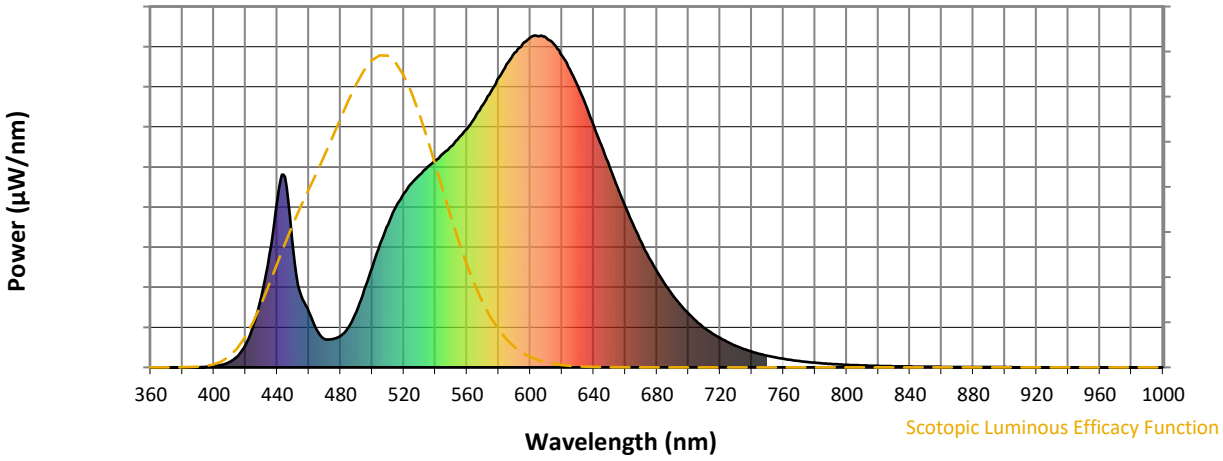
Scotopic Flux vs. Wavelength



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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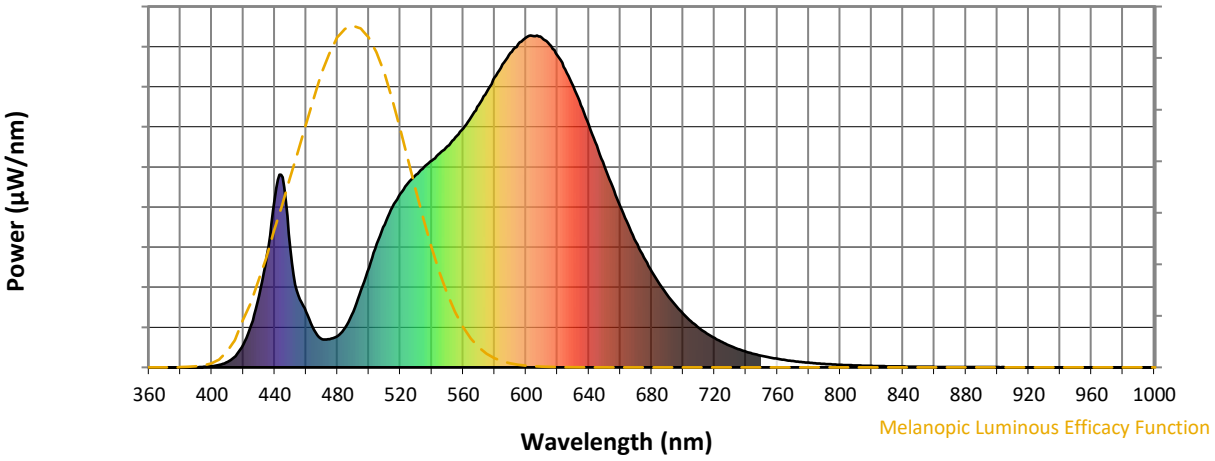
Melanopic Flux vs. Wavelength



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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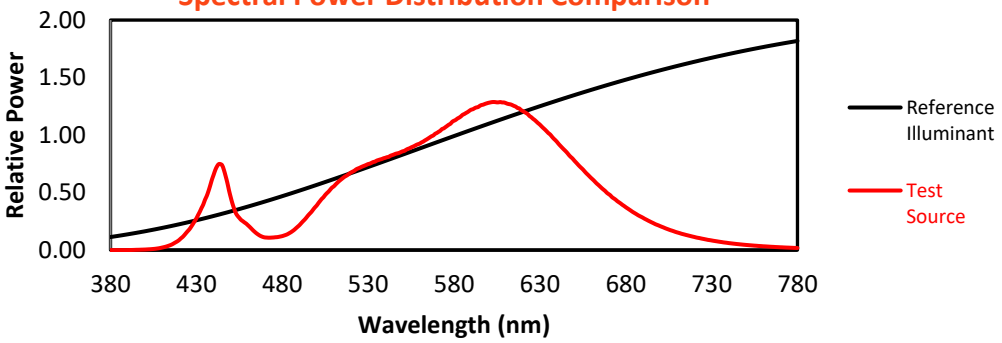
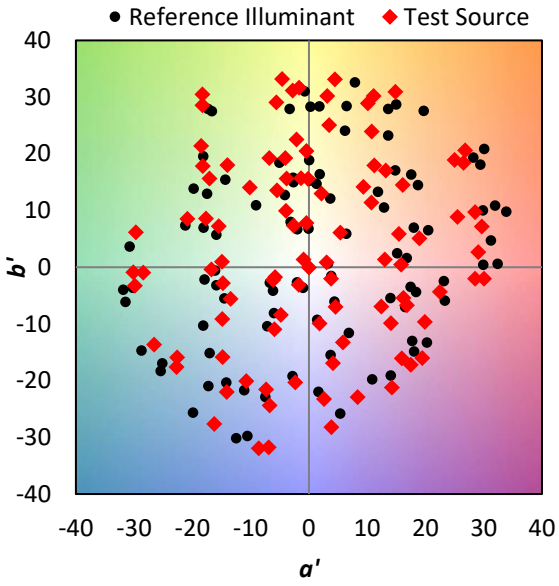
Summary

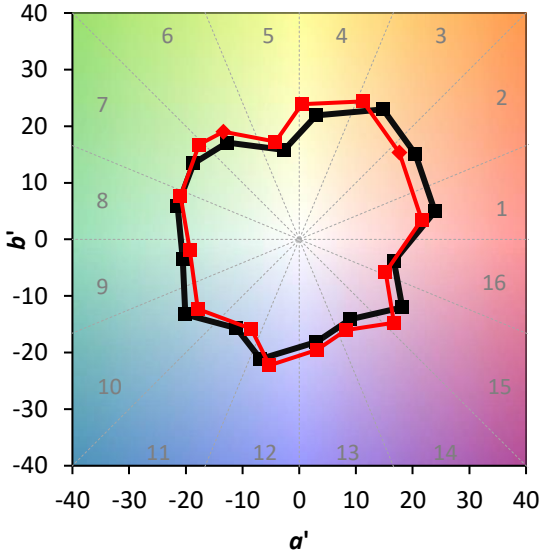
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

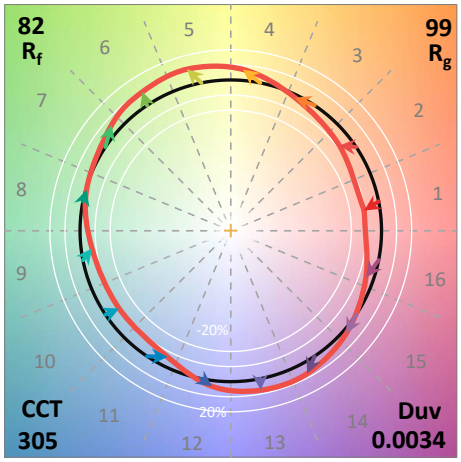
Spectral Power Distribution Comparison

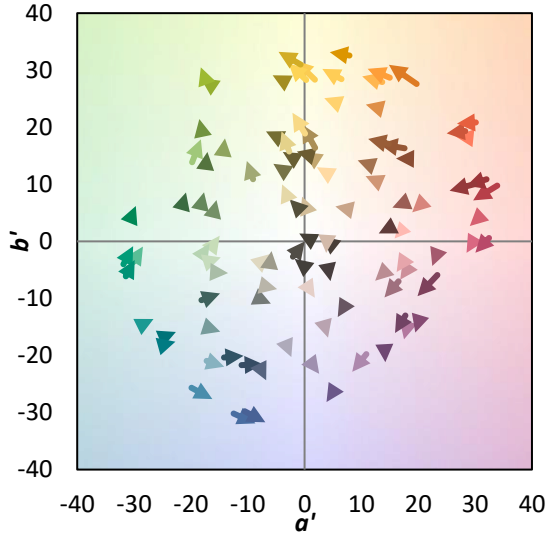


Color Vector Graphics









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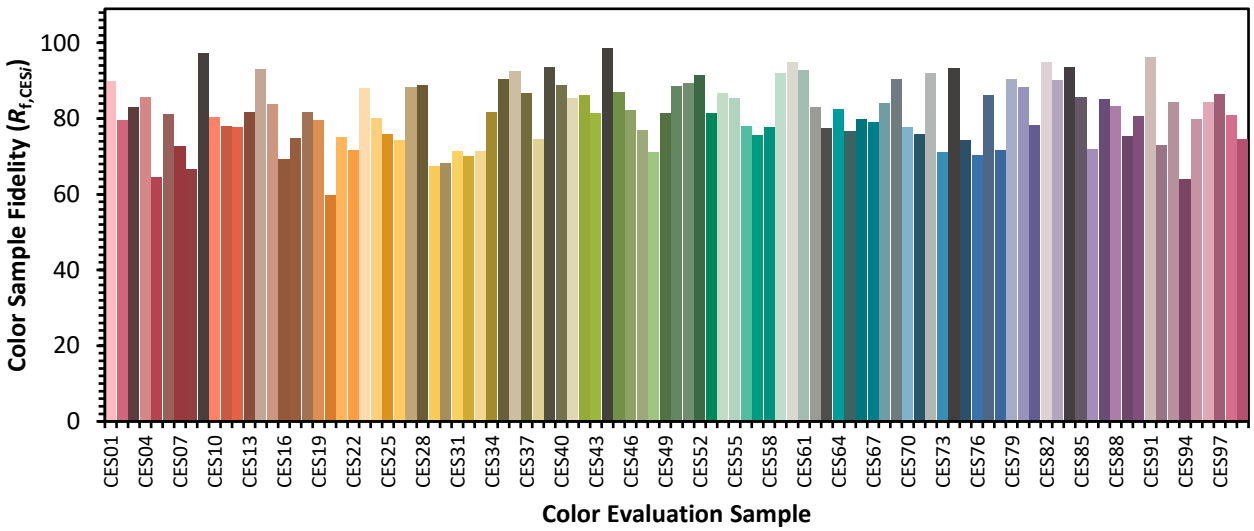
Individual Sample Fidelity Index ($R_{f,i}$)

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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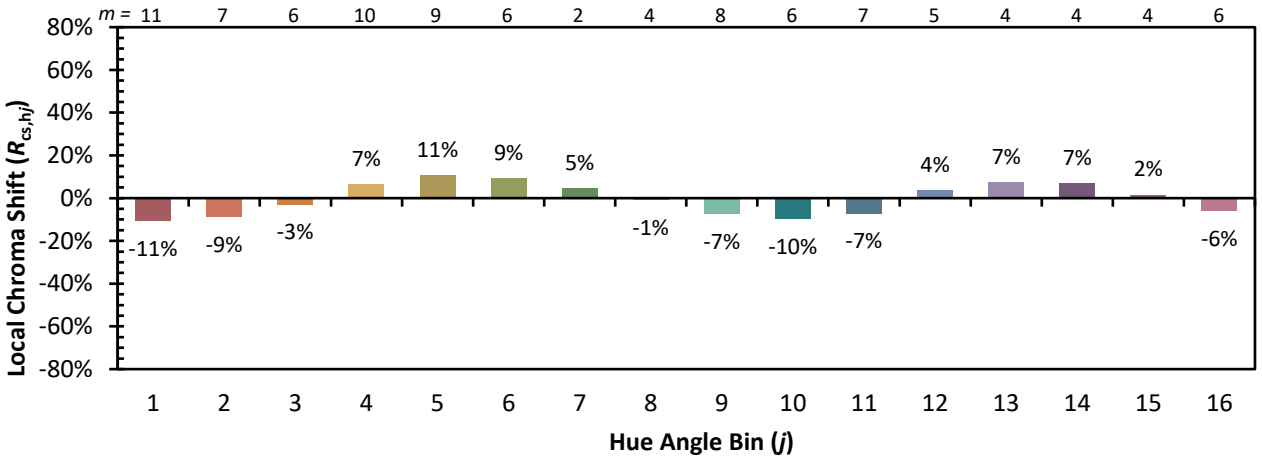
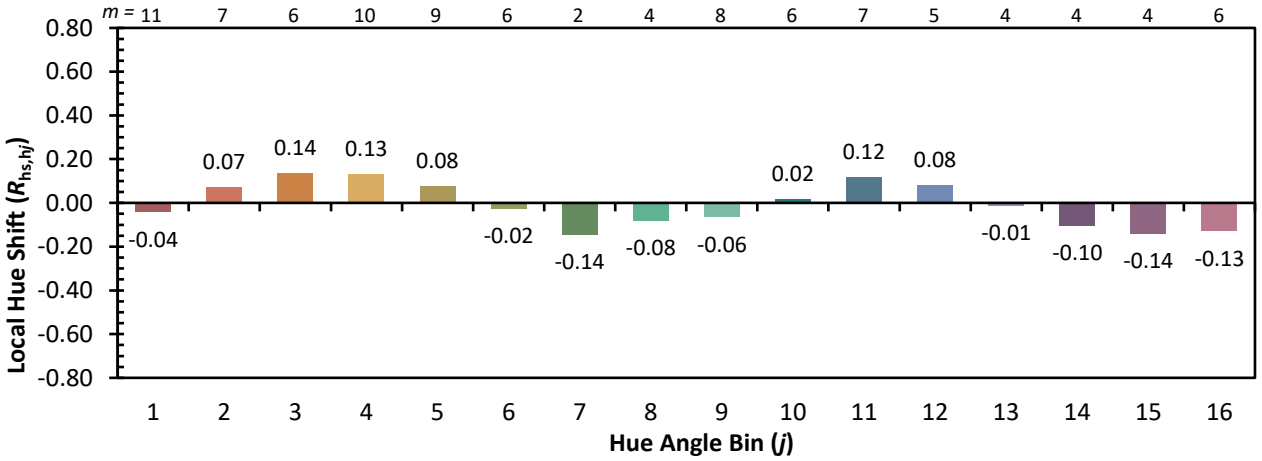
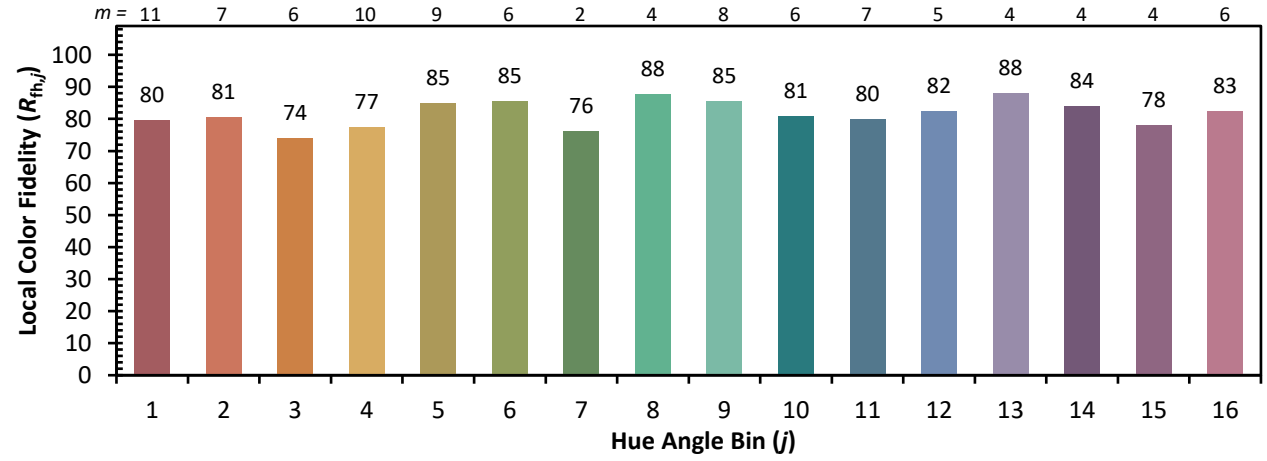
Color Rendition by Hue-Angle Bin







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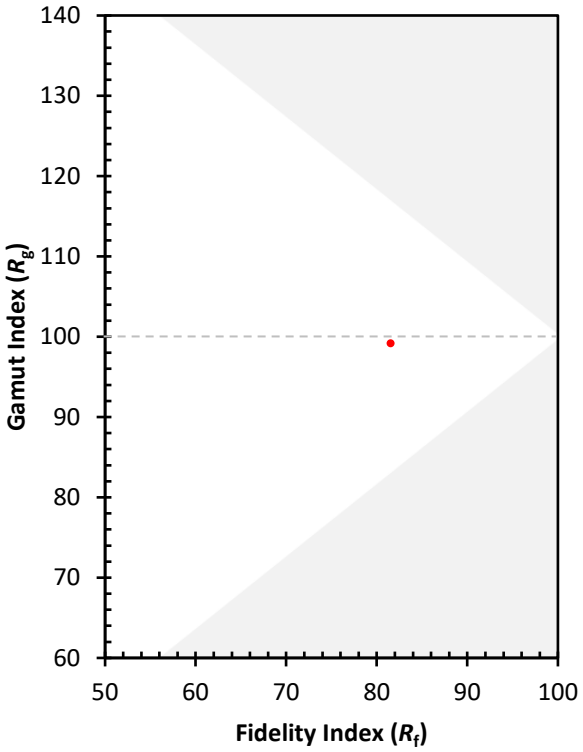
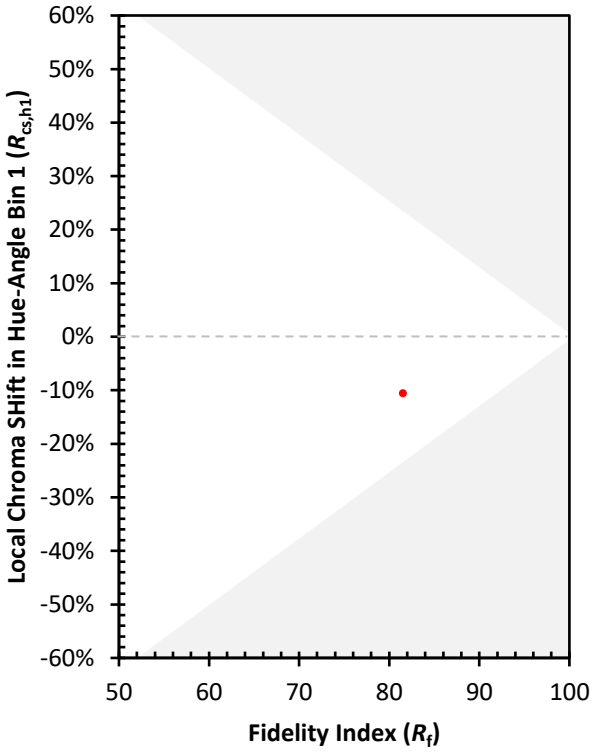
Measure Comparisons





(END OF REPORT)