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: P630053

Luminaire Tested: GWS-SA1C-830-U-RW-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:	P630053
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
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
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3930.6 lumens
Efficiency:	N/A
Efficacy:	115.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2

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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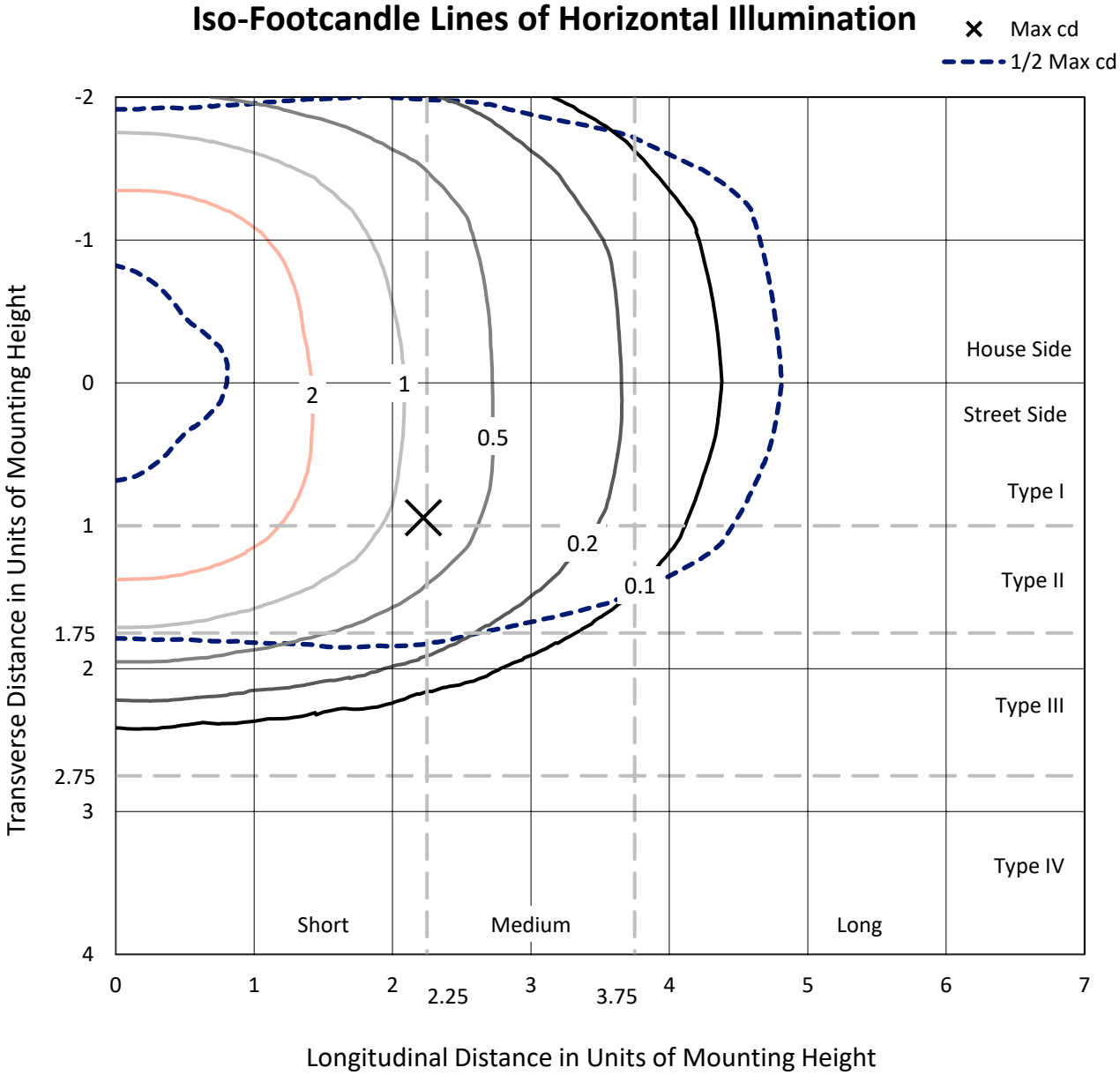
REPORT NUMBER: P630053
CATALOG NUMBER: GWS-SA1C-830-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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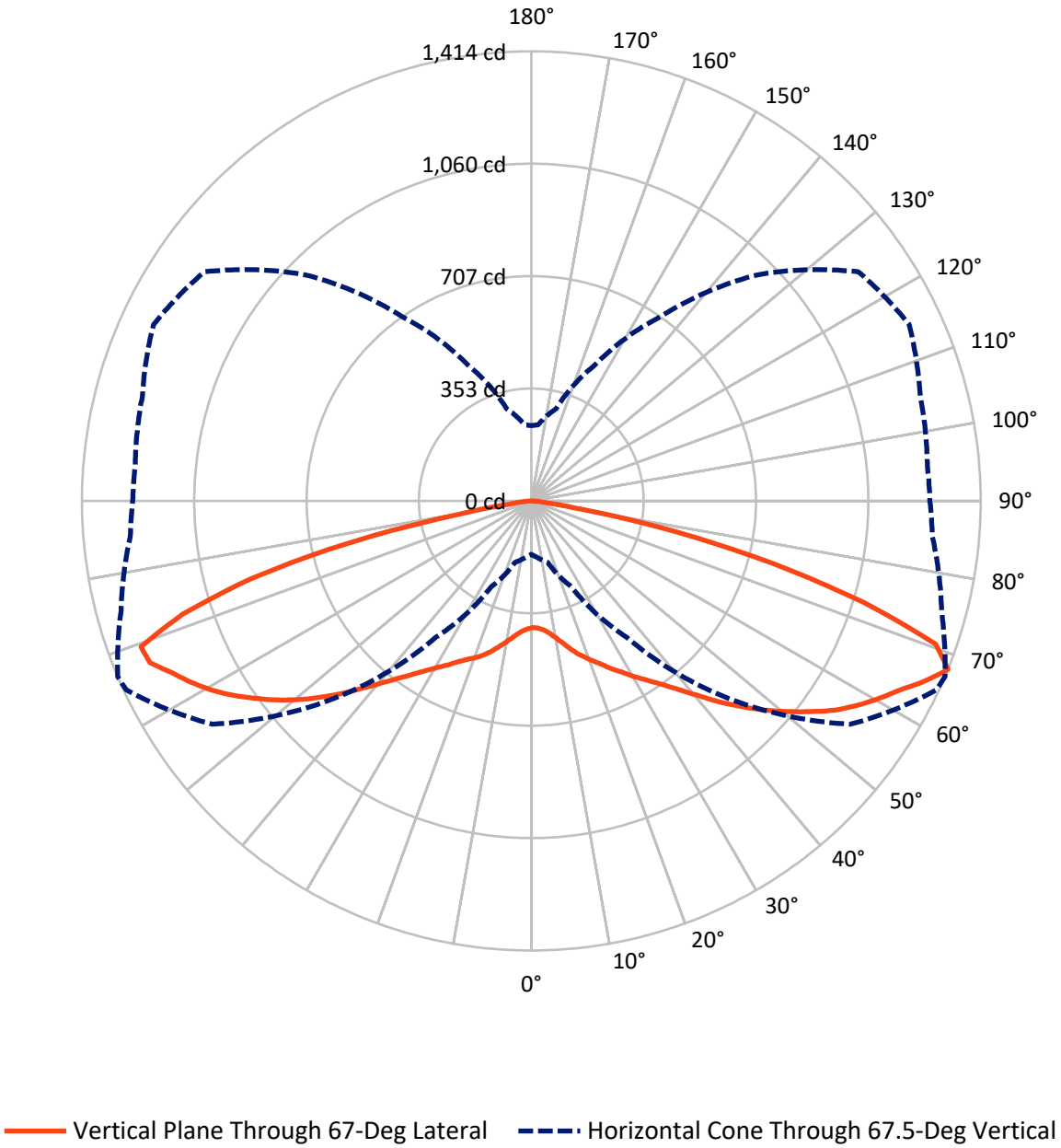
Luminous Intensity Polar Plot



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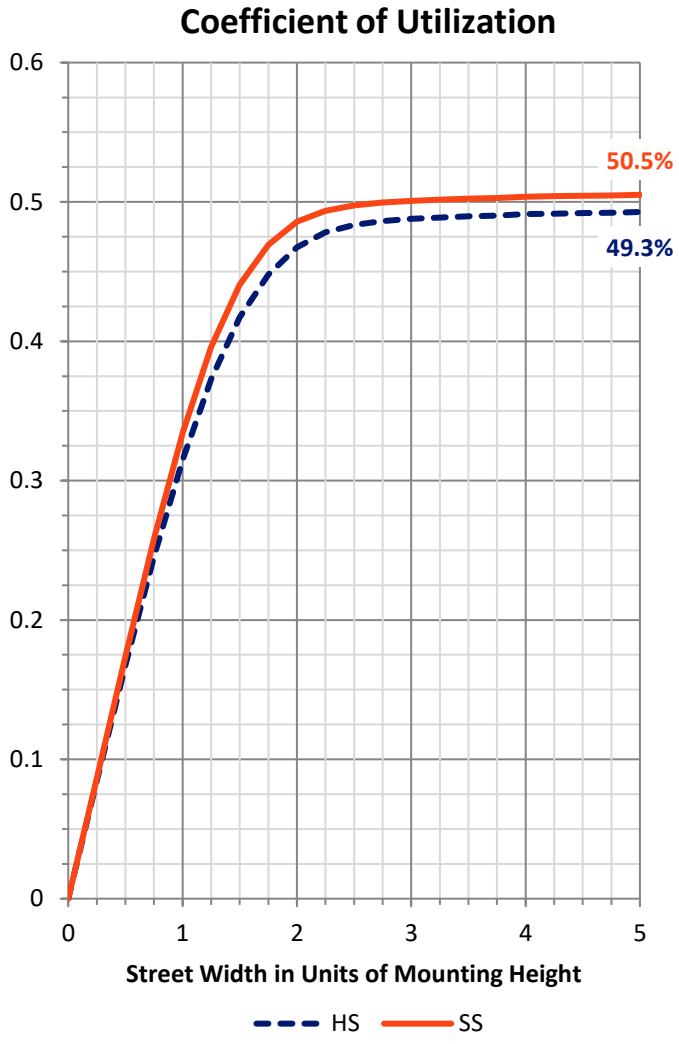
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.6	0.0	1943.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	1987.0	0.0	1987.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	3930.6	0.0	3930.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	1.0
10°-20°	131.9	3.4
20°-30°	258.8	6.6
30°-40°	441.0	11.2
40°-50°	708.1	18.0
50°-60°	962.1	24.5
60°-70°	920.4	23.4
70°-80°	437.6	11.1
80°-90°	31.7	0.8
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°	3930.6	100.0
0°-180°	3930.6	100.0



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REPORT NUMBER: P630053
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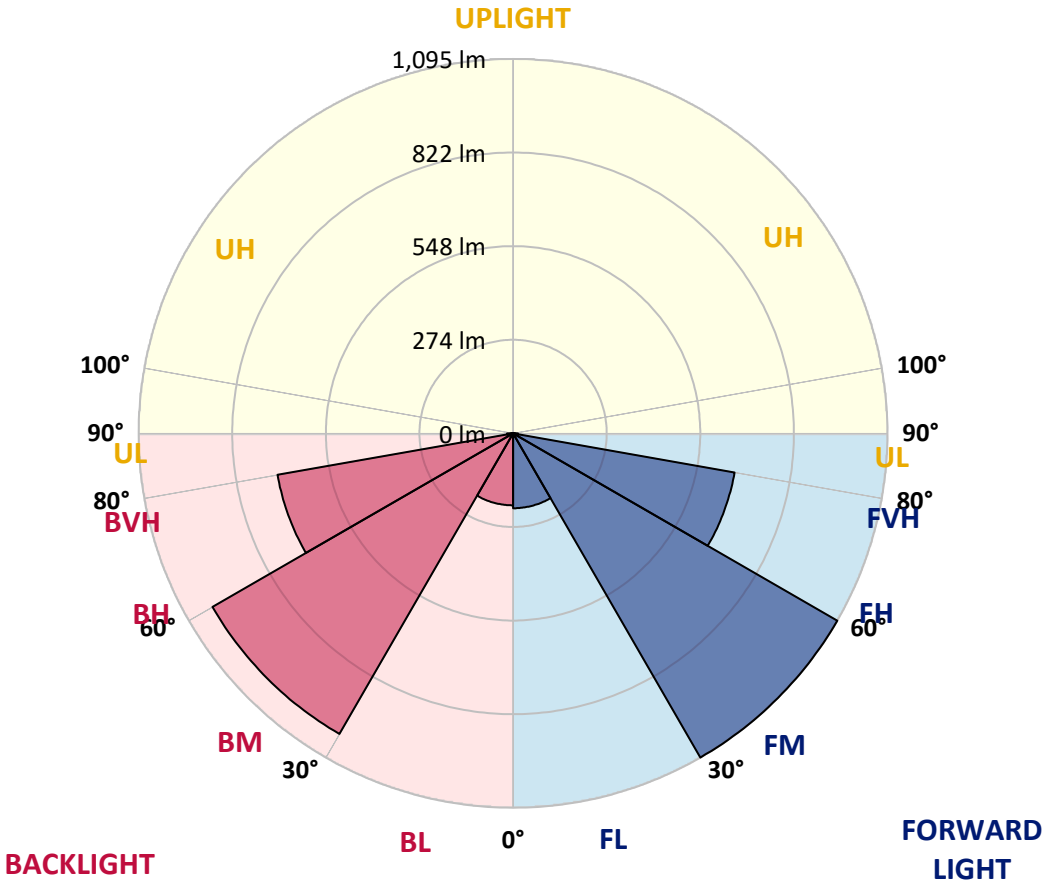
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	219.2	5.6			
FM	(30°-60°)	1095.5	27.9			
FH	(60°-80°)	658.1	16.7			G0/660
FVH	(80°-90°)	14.3	0.4			G1/100
BL	(0°-30°)	210.6	5.4	B1/500		
BM	(30°-60°)	1015.7	25.8	B2/2500		
BH	(60°-80°)	699.8	17.8	B2/1000		G2/1000
BVH	(80°-90°)	17.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P630053
CATALOG NUMBER: GWS-SA1C-830-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	*398.0*	398.0	398.0
2.5°	389.8	390.3	391.2	392.8	394.4	396.9	399.4	399.1	*400.2*	401.0	401.8
5°	387.6	388.1	389.5	391.7	394.2	398.3	403.5	405.7	*407.3*	410.3	413.0
7.5°	392.2	393.3	395.3	398.3	402.1	407.3	414.4	418.3	*420.7*	426.2	430.8
10°	398.5	399.9	403.7	409.5	415.2	423.2	432.2	438.0	*439.6*	446.7	455.5
12.5°	404.6	406.2	412.5	422.9	433.3	444.0	454.7	461.8	*462.3*	471.9	481.8
15°	414.1	415.5	424.0	437.4	453.3	468.1	481.2	486.1	*488.3*	495.2	507.5
17.5°	435.2	436.9	447.8	462.3	479.0	494.6	507.8	511.9	*511.9*	517.6	527.7
20°	457.9	459.6	474.1	492.7	513.0	528.8	539.0	535.1	*533.8*	535.4	542.5
22.5°	483.4	486.4	500.4	522.0	546.9	566.3	571.5	560.0	*556.2*	552.4	554.0
25°	516.0	519.5	533.2	556.2	580.6	601.1	604.1	586.3	*584.1*	570.7	565.8
27.5°	553.5	556.2	573.2	595.9	618.6	635.9	639.1	617.2	*609.9*	591.2	579.7
30°	601.9	604.4	619.2	641.6	661.3	673.4	677.5	647.4	*641.6*	613.1	595.4
32.5°	654.7	655.8	670.9	692.5	710.0	721.5	715.8	680.8	*672.3*	640.2	615.9
35°	715.2	715.2	734.7	752.2	766.2	769.4	758.5	718.5	*708.7*	673.9	643.5
37.5°	774.6	776.3	794.3	815.2	827.5	826.9	806.9	763.1	*751.9*	714.1	680.5
40°	839.0	842.5	860.6	883.9	895.6	894.0	863.3	814.6	*803.1*	758.5	725.6
42.5°	898.1	903.8	924.9	948.7	961.6	960.5	928.5	873.7	*862.5*	812.1	779.3
45°	945.2	951.2	977.5	1010.6	1031.1	1029.2	996.9	935.0	*921.4*	868.5	832.4
47.5°	986.5	992.8	1022.1	1057.1	1089.7	1093.0	1063.4	996.9	*982.4*	929.0	888.2
50°	1018.3	1021.3	1054.1	1092.4	1130.2	1148.5	1122.8	1059.0	*1041.5*	988.7	942.7
52.5°	1015.8	1019.9	1060.4	1112.4	1163.1	1193.2	1175.4	1117.6	*1100.6*	1043.2	998.3
55°	965.7	969.8	1018.0	1093.8	1181.4	1225.7	1223.8	1173.5	*1161.1*	1098.7	1056.0
57.5°	892.6	901.6	949.5	1031.4	1157.3	1251.7	1259.4	1224.4	*1211.5*	1153.2	1113.2
60°	761.8	773.8	829.1	935.3	1080.1	1243.0	1297.5	1267.3	*1259.4*	1203.8	1165.0
62.5°	553.5	562.2	635.9	775.2	965.7	1180.6	1329.5	1311.7	*1305.7*	1249.3	1211.8
65°	331.5	351.5	410.6	548.3	779.0	1062.9	1312.0	1369.7	*1363.4*	1296.1	1251.7
67.5°	*167.8*	*176.8*	*200.1*	*297.3*	*523.9*	*879.5*	*1224.1*	*1405.8*	*1413.5*	*1336.0*	*1266.0*
70°	104.0	106.5	113.0	146.7	261.7	577.8	1001.0	1311.7	*1349.2*	1329.8	1229.0
72.5°	83.5	84.0	85.1	91.4	125.6	270.2	632.9	1027.3	*1094.9*	1241.9	1176.2
75°	69.3	69.5	69.8	71.7	78.3	110.3	307.9	705.9	*785.0*	1055.5	1090.5
77.5°	55.6	54.2	55.3	56.1	57.8	61.6	106.2	376.6	*456.8*	692.8	843.3
80°	36.1	35.6	37.8	38.6	40.2	42.7	56.7	127.8	*155.2*	252.1	268.2
82.5°	19.4	18.3	23.0	22.2	23.0	24.9	33.4	46.8	*52.6*	76.1	64.3
85°	6.0	6.0	6.3	7.4	9.0	8.8	14.5	23.0	*25.5*	32.6	24.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.4	3.0	4.7	*6.3*	11.2	8.5
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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REPORT NUMBER: P630053
CATALOG NUMBER: GWS-SA1C-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0
2.5°	403.5	401.0	402.4	403.2	402.9	402.4	399.6	399.1	397.7	395.5	395.0
5°	415.5	412.8	413.0	412.2	409.5	405.9	399.9	396.9	394.4	391.7	391.4
7.5°	434.4	431.4	430.6	426.7	419.1	410.9	401.3	395.8	391.7	388.1	387.6
10°	458.5	455.5	452.7	443.7	431.1	420.2	407.6	399.6	393.6	389.2	388.4
12.5°	485.3	482.8	476.0	462.9	447.8	434.9	422.1	412.2	403.5	396.9	396.1
15°	515.1	509.7	499.3	482.3	468.1	457.7	442.1	428.7	414.7	405.9	404.0
17.5°	536.0	531.3	519.0	502.6	491.3	482.3	464.0	444.8	425.9	413.0	410.3
20°	550.7	545.8	531.8	519.8	516.2	508.6	487.2	465.1	443.2	427.3	423.7
22.5°	561.4	556.2	542.0	536.0	540.9	539.5	518.7	493.5	467.5	448.6	444.3
25°	571.5	566.6	554.0	556.2	569.3	573.5	551.0	521.7	492.2	470.0	464.8
27.5°	581.1	574.8	569.1	581.1	599.7	607.4	583.6	550.5	518.4	495.7	491.6
30°	595.9	588.5	587.7	605.2	634.8	641.3	615.1	581.9	550.2	527.2	522.0
32.5°	614.5	607.7	608.2	634.5	668.7	674.2	651.7	620.8	589.1	566.1	558.9
35°	639.7	631.2	635.9	668.2	702.7	712.8	694.7	669.0	638.1	614.5	606.6
37.5°	674.5	662.1	671.7	705.7	740.4	755.5	741.5	722.4	691.7	667.9	660.5
40°	718.8	708.7	712.5	750.0	785.9	803.9	795.2	776.3	745.9	721.0	712.5
42.5°	771.4	761.2	759.9	799.8	835.7	863.1	854.6	837.3	805.8	777.4	769.2
45°	822.8	813.5	815.4	856.2	896.4	926.3	917.8	897.5	863.3	830.5	823.9
47.5°	876.5	868.8	870.4	913.7	958.0	987.9	977.2	952.6	912.6	877.6	869.6
50°	931.5	922.7	925.2	970.6	1018.5	1046.7	1030.3	993.9	949.8	915.6	908.8
52.5°	986.2	975.8	982.1	1025.1	1074.6	1097.1	1066.7	1022.6	979.9	946.0	938.3
55°	1049.2	1038.2	1031.4	1077.4	1126.4	1135.7	1094.1	1042.6	992.0	953.4	948.7
57.5°	1106.7	1097.4	1084.5	1130.5	1166.6	1159.8	1115.2	1037.1	962.7	913.1	906.6
60°	1158.1	1150.2	1139.0	1178.1	1194.5	1179.2	1098.2	972.3	890.4	838.7	835.7
62.5°	1205.5	1197.0	1186.6	1220.0	1217.8	1182.2	1021.0	872.6	763.1	707.6	702.7
65°	1243.0	1235.3	1232.3	1258.6	1255.0	1123.4	900.8	709.5	557.6	494.9	493.0
67.5°	*1253.7*	*1250.6*	*1266.8*	*1311.4*	*1255.8*	*1005.1*	*706.5*	*470.5*	*299.5*	*240.1*	*236.5*
70°	1213.7	1213.4	1259.7	1323.5	1142.0	767.8	416.9	212.1	150.5	133.6	131.4
72.5°	1161.7	1160.9	1197.5	1141.7	846.9	420.2	175.5	113.6	94.2	89.5	89.5
75°	1076.3	1074.1	1101.7	868.5	476.3	158.2	93.1	78.0	73.9	73.1	73.1
77.5°	877.3	858.9	815.4	536.8	166.2	77.7	61.6	61.3	58.9	58.6	58.6
80°	288.5	288.5	335.3	204.7	73.4	47.9	43.5	45.7	43.2	41.6	41.3
82.5°	47.1	64.9	92.2	58.6	39.7	29.8	26.8	28.5	29.8	23.8	23.8
85°	18.6	24.4	35.6	27.4	18.3	12.0	12.9	14.2	12.6	10.9	10.7
87.5°	7.1	8.8	12.6	6.6	3.8	2.2	1.4	1.4	1.1	1.1	1.1
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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Peachtree City, GA 30269

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

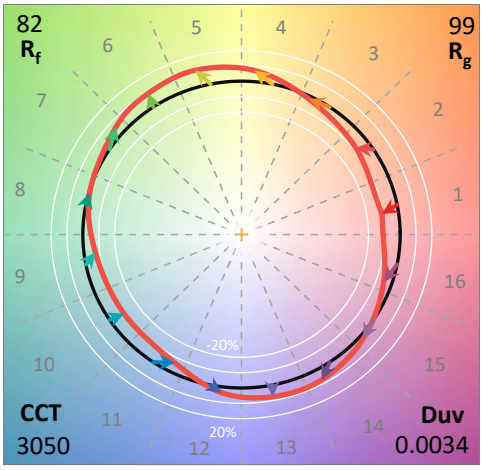
Test Information

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

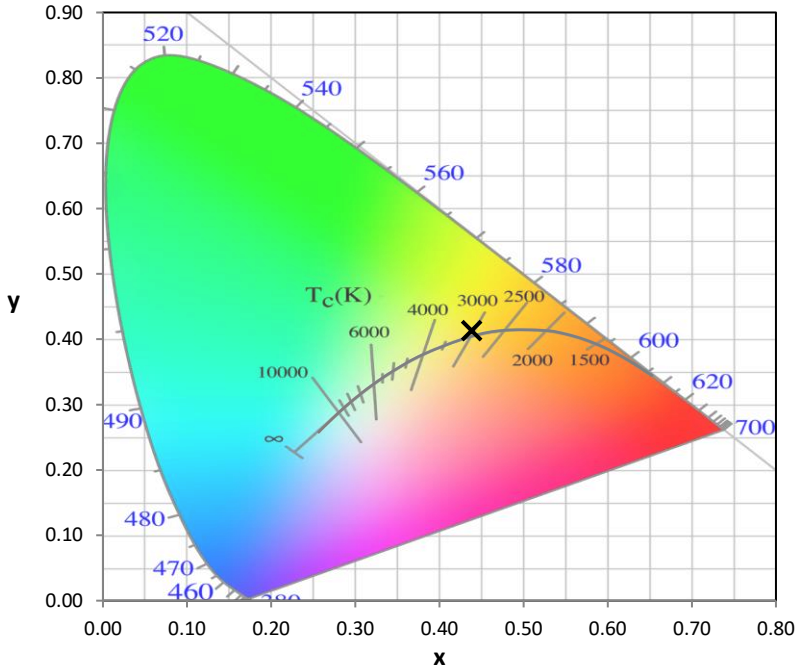
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

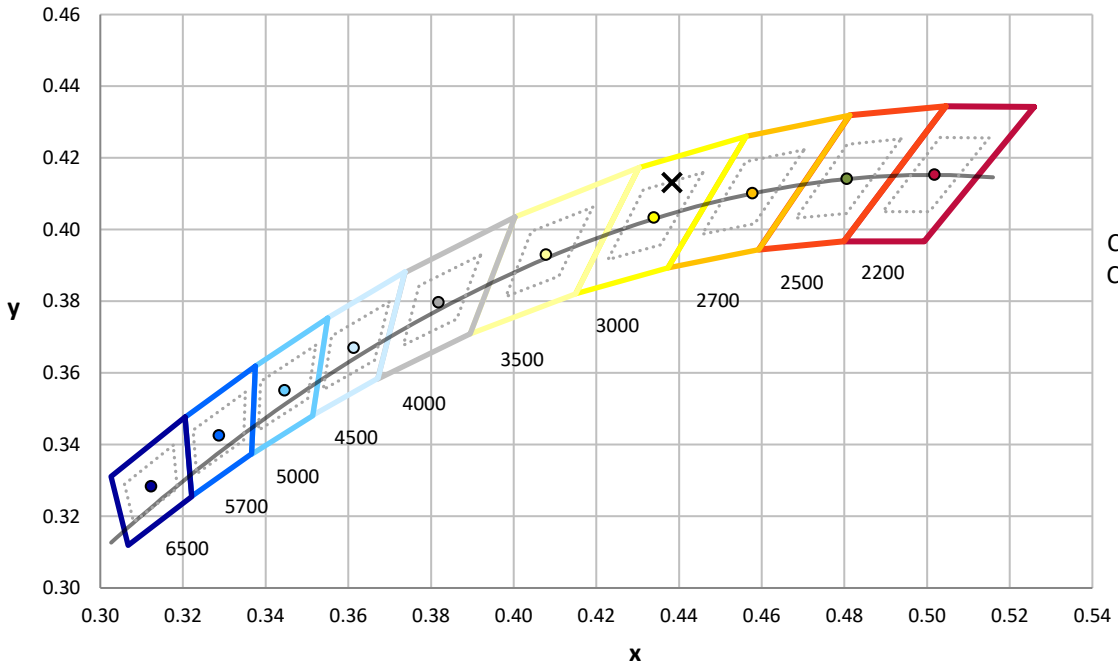
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

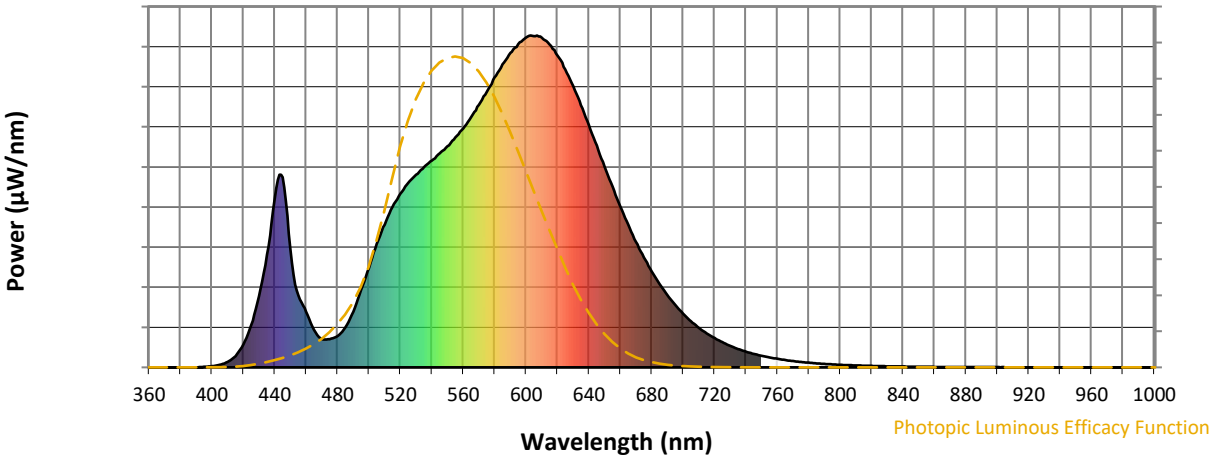


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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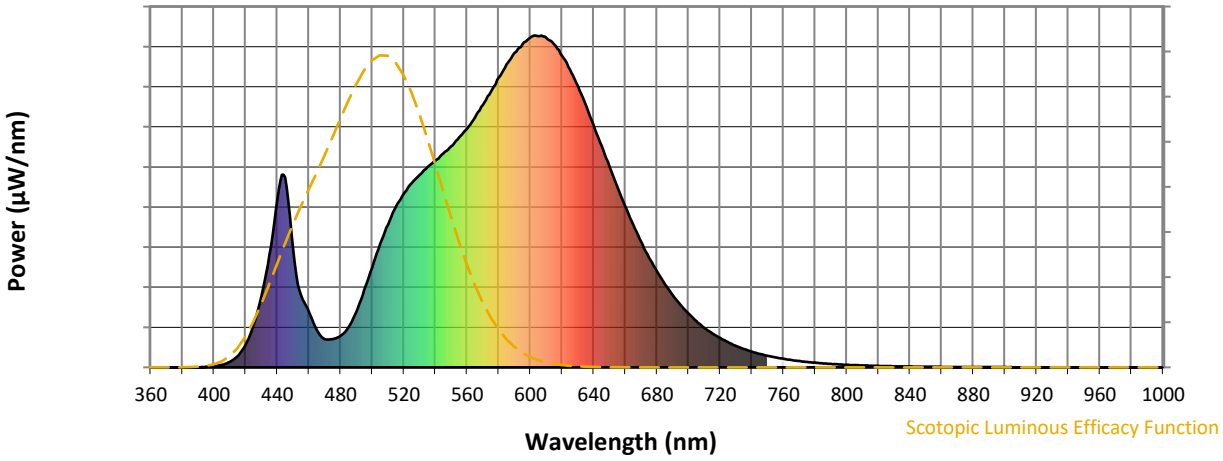
Scotopic Flux vs. Wavelength



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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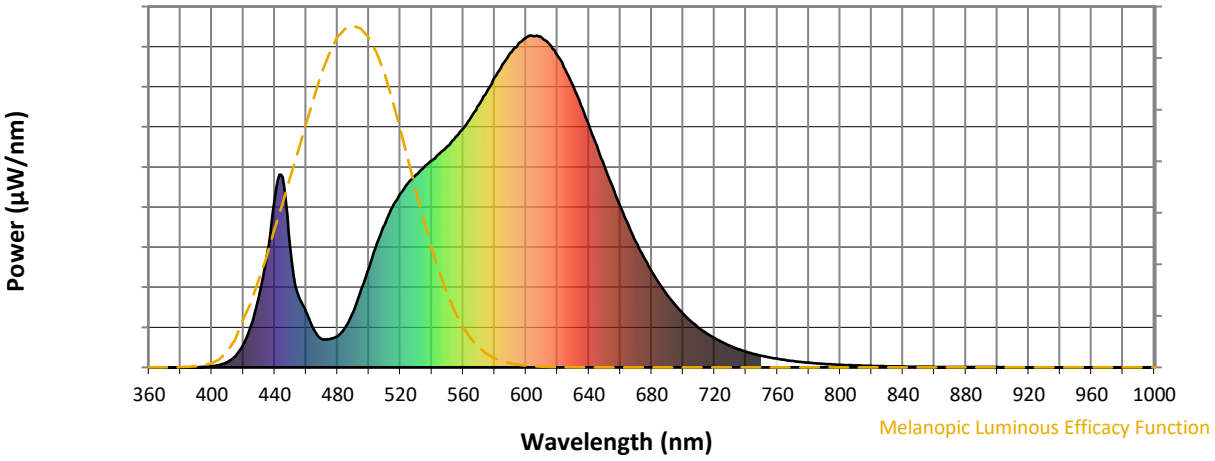
Melanopic Flux vs. Wavelength



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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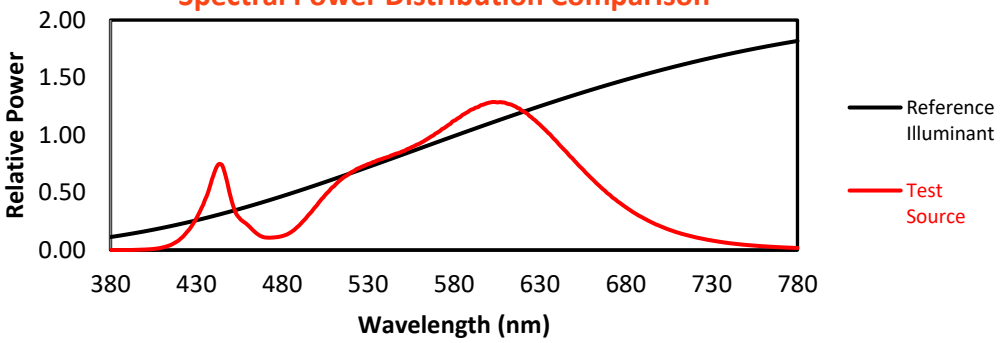
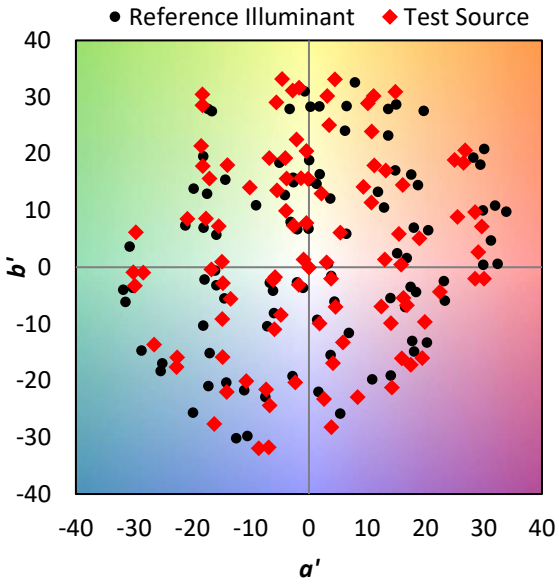
Summary

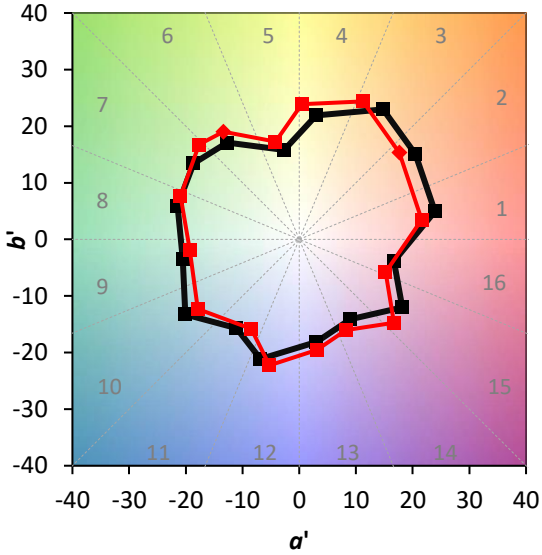
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

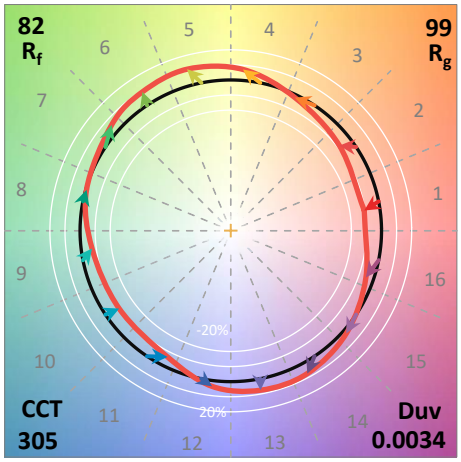
Spectral Power Distribution Comparison

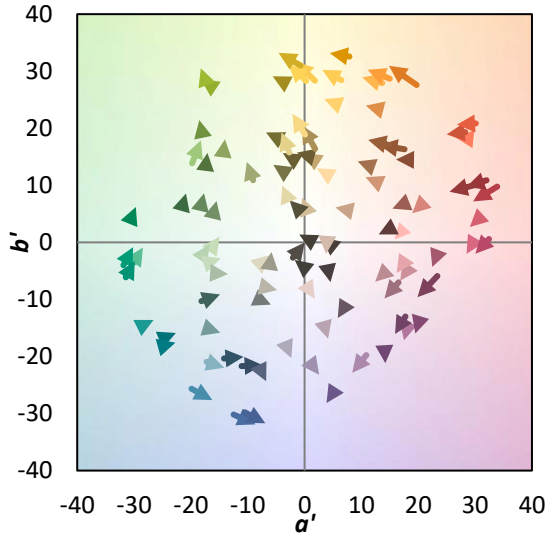


Color Vector Graphics









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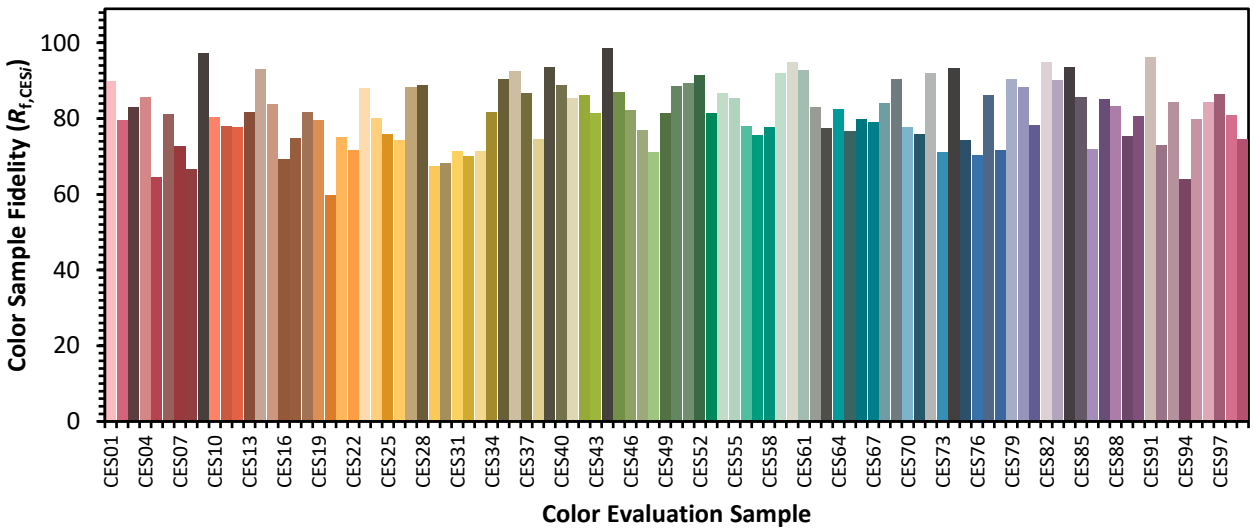
Individual Sample Fidelity Index ($R_{f,i}$)

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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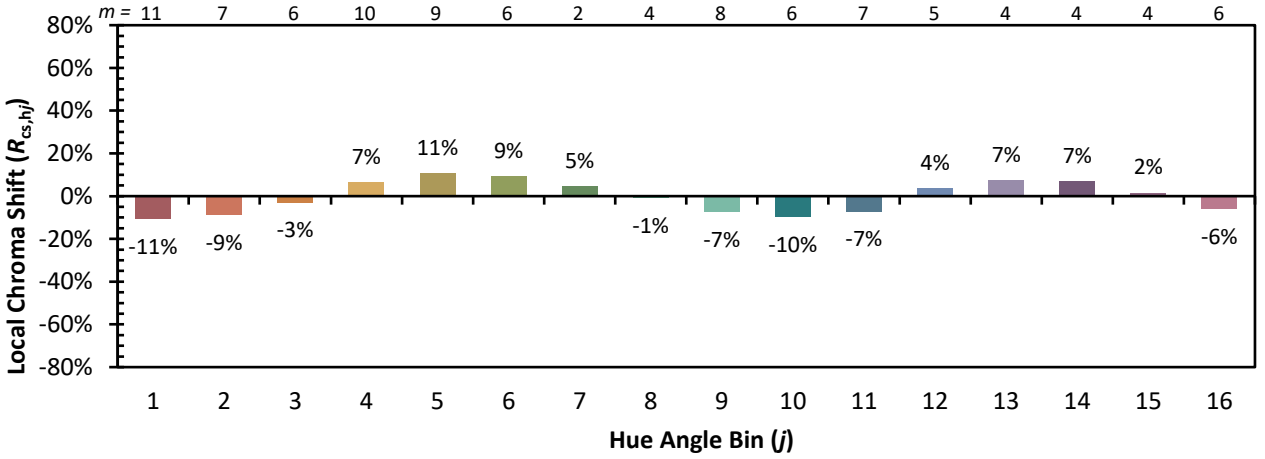
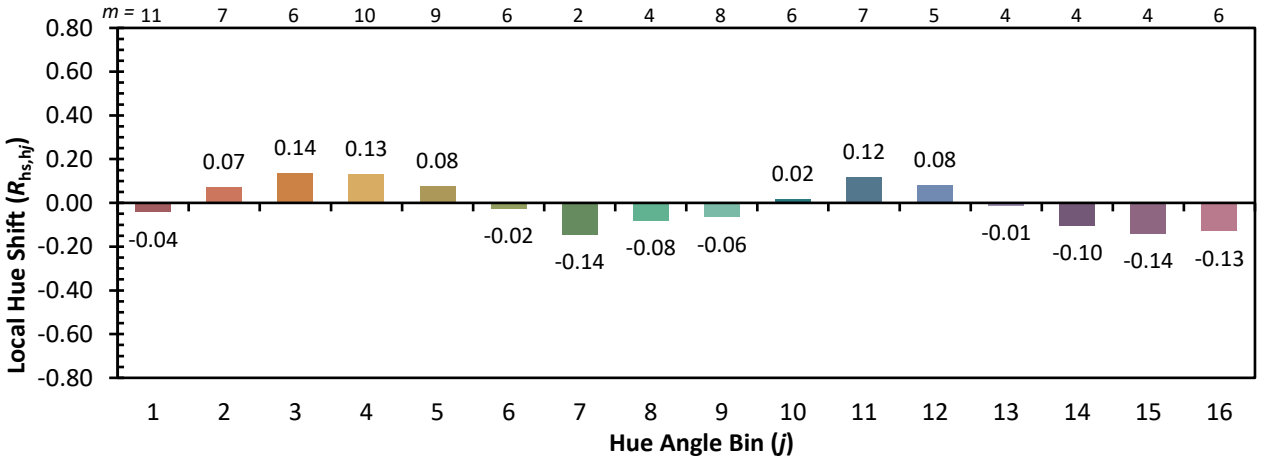
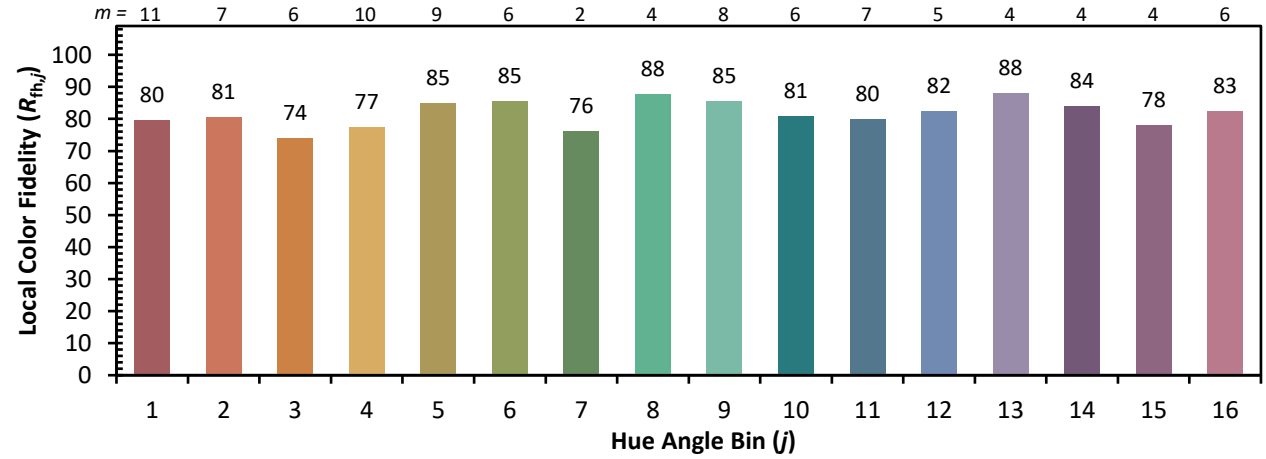
Color Rendition by Hue-Angle Bin







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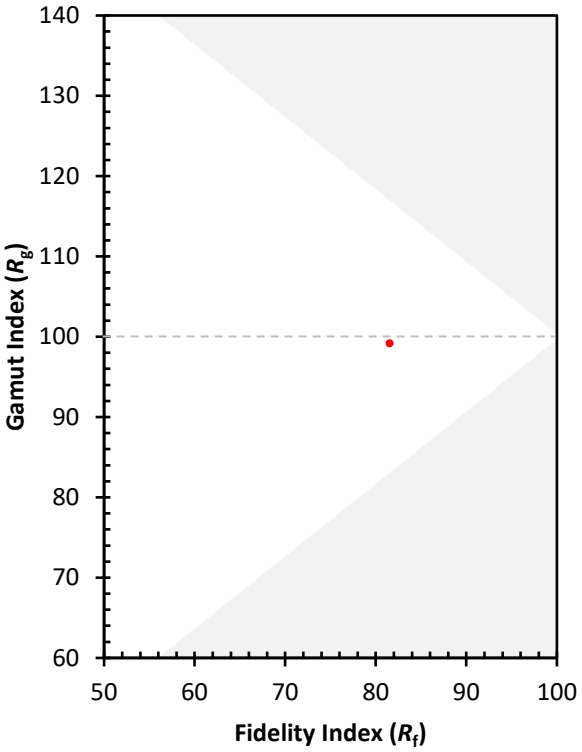
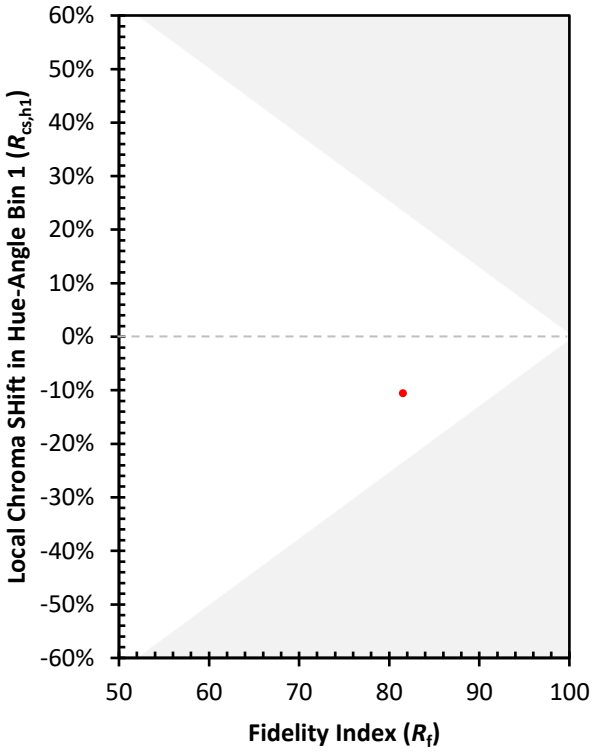
Measure Comparisons





(END OF REPORT)