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: P629582

Luminaire Tested: GWS-SA1B-830-U-T2-W-HSS

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:	P629582
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-T2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2132.6 lumens
Efficiency:	N/A
Efficacy:	85.3 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):	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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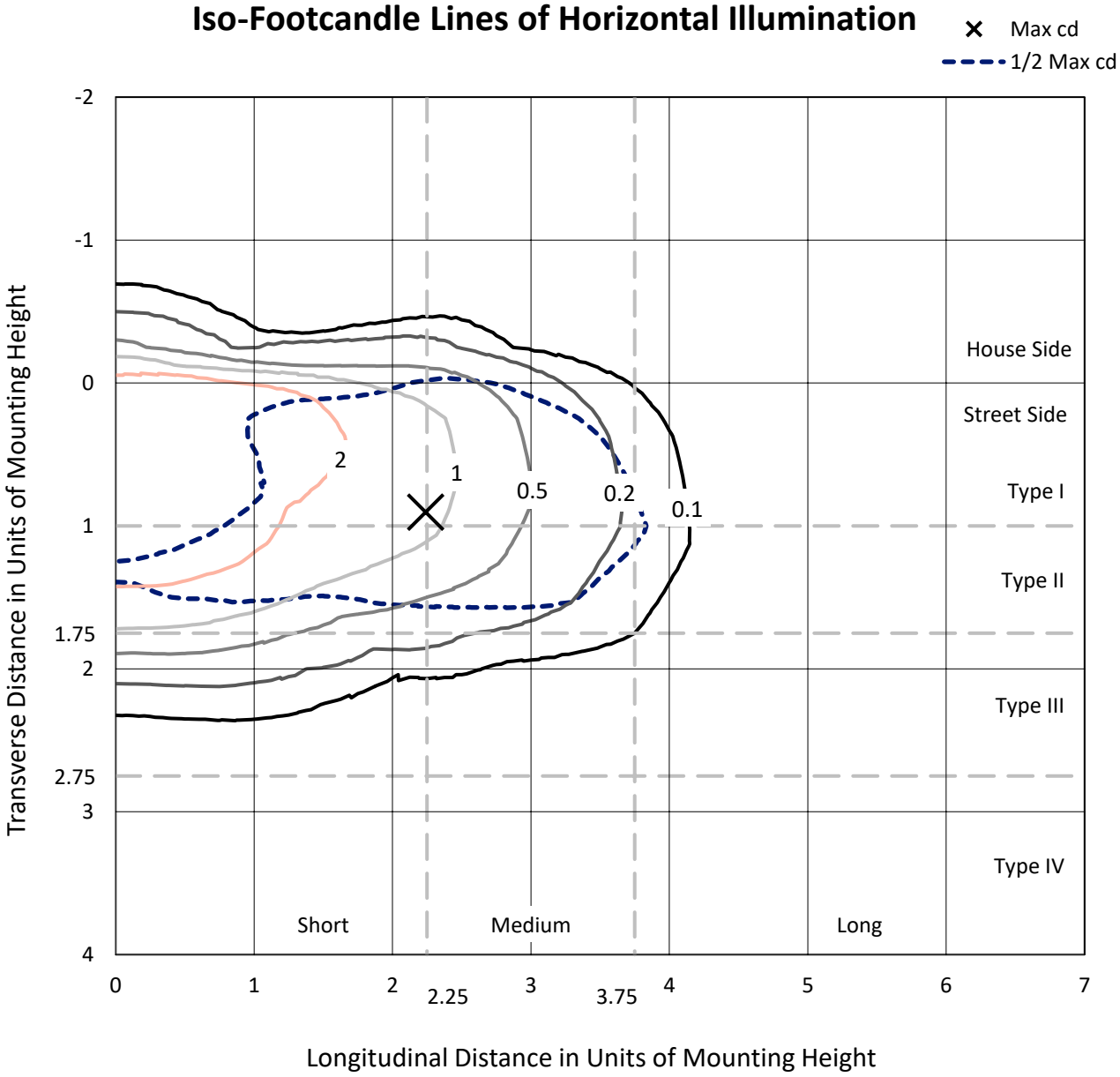
REPORT NUMBER: P629582
CATALOG NUMBER: GWS-SA1B-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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REPORT NUMBER: P629582
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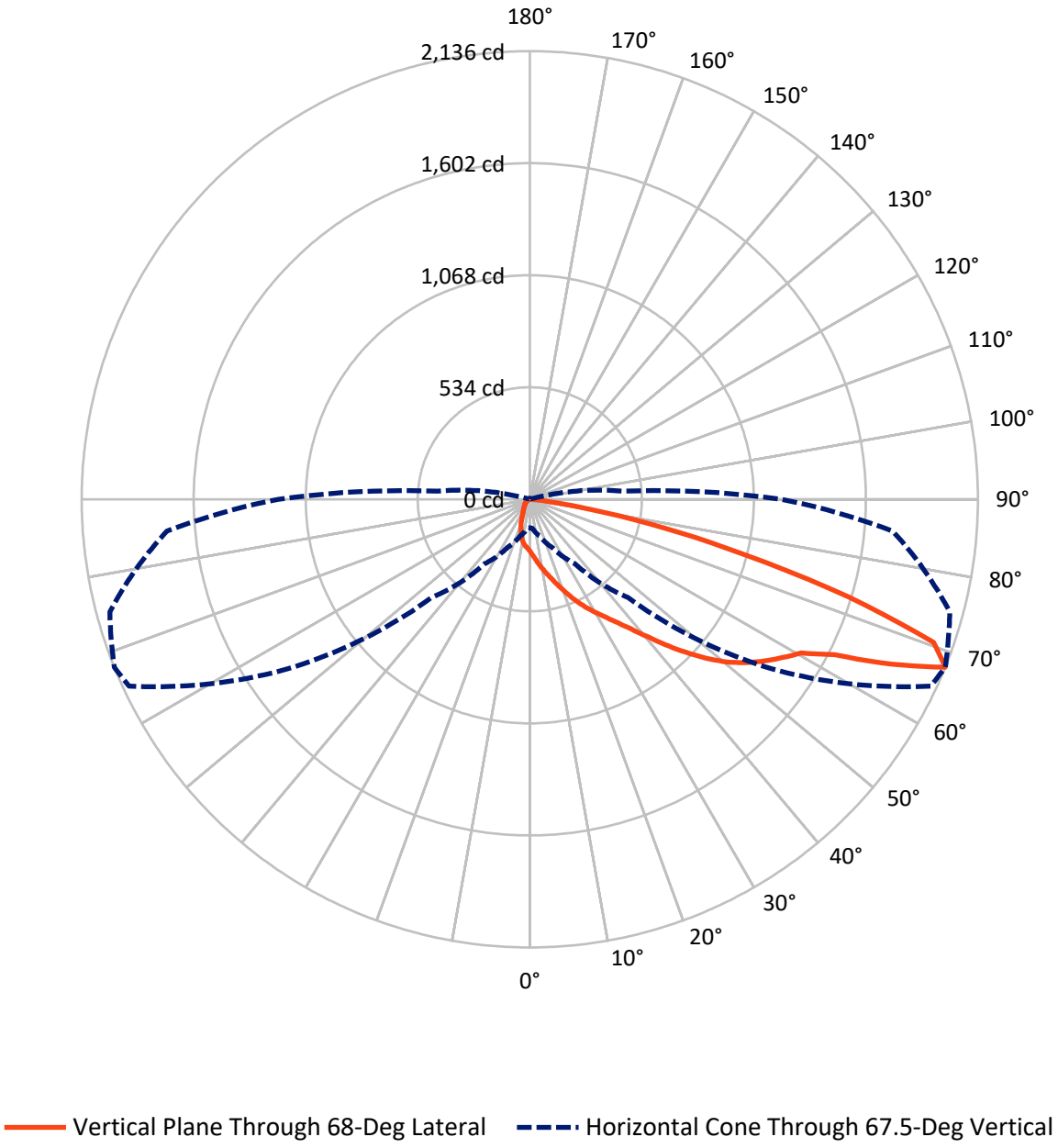
Luminous Intensity Polar Plot



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REPORT NUMBER: P629582
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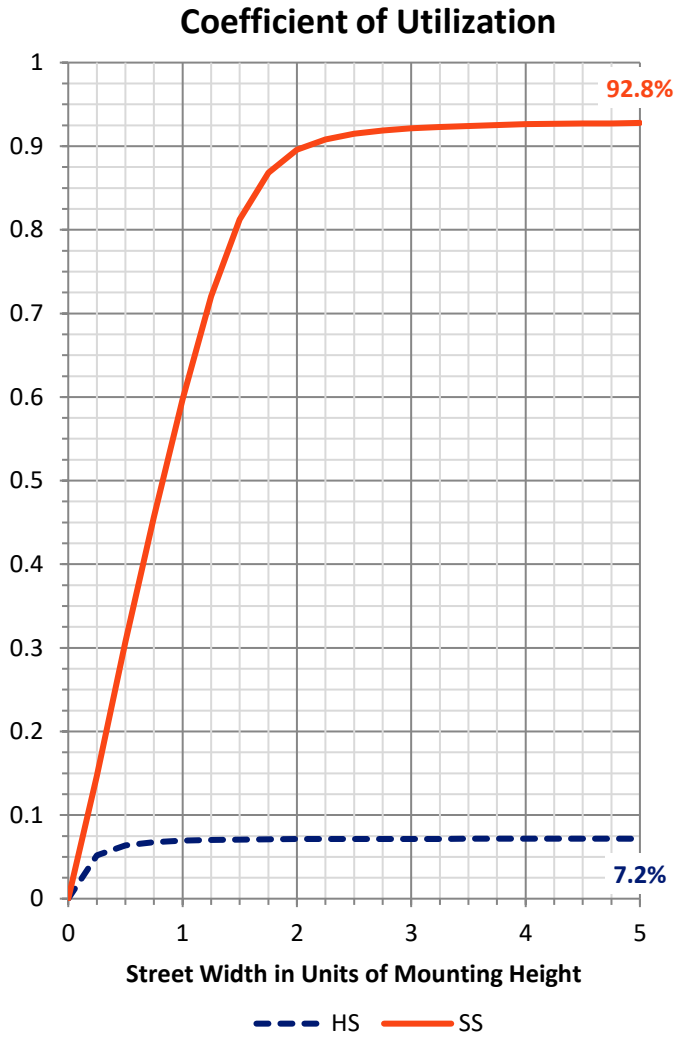
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	154.0	0.0	154.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	1978.6	0.0	1978.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	2132.6	0.0	2132.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	1.1
10°-20°	69.5	3.3
20°-30°	119.4	5.6
30°-40°	207.7	9.7
40°-50°	362.4	17.0
50°-60°	546.6	25.6
60°-70°	548.1	25.7
70°-80°	241.8	11.3
80°-90°	12.9	0.6
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°	2132.6	100.0
0°-180°	2132.6	100.0



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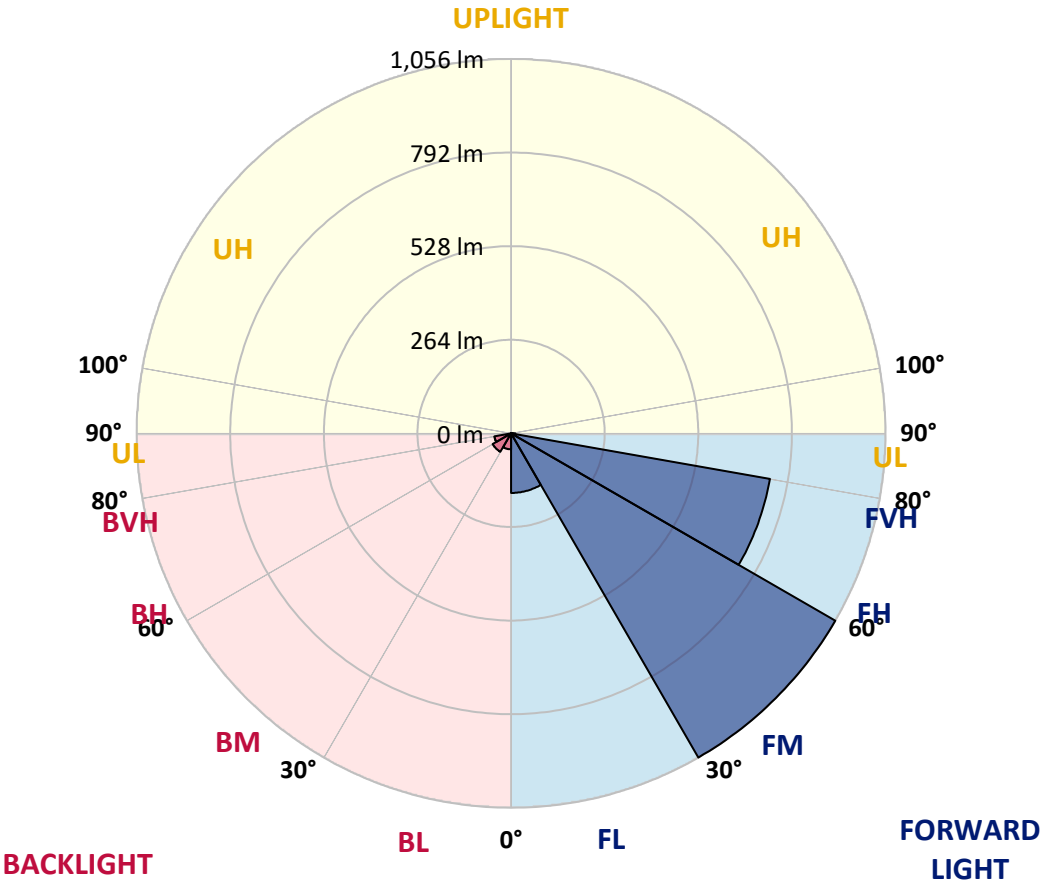
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	168.1	7.9			
FM	(30°-60°)	1056.5	49.5			
FH	(60°-80°)	741.8	34.8			G1/1800
FVH	(80°-90°)	12.2	0.6			G1/100
BL	(0°-30°)	45.1	2.1	B0/110		
BM	(30°-60°)	60.2	2.8	B0/220		
BH	(60°-80°)	48.1	2.3	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			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: P629582
CATALOG NUMBER: GWS-SA1B-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	*248.2*	248.2	248.2
2.5°	289.0	290.8	289.0	289.4	284.1	281.7	276.3	269.0	*267.2*	262.5	255.3
5°	324.3	325.9	324.1	323.7	317.6	313.1	304.3	291.7	*288.0*	278.8	264.7
7.5°	343.5	344.5	345.1	346.1	343.9	340.2	332.3	316.6	*312.7*	297.8	278.0
10°	345.5	346.4	349.4	355.5	360.0	362.3	357.8	343.3	*337.2*	322.7	294.3
12.5°	339.8	341.0	345.9	356.1	368.6	380.0	382.9	370.2	*364.7*	346.1	313.5
15°	332.3	333.3	340.0	353.9	372.7	393.7	405.5	400.0	*393.9*	374.5	334.7
17.5°	320.6	322.1	331.5	350.2	374.5	404.5	430.0	431.9	*427.6*	406.6	358.2
20°	314.1	315.1	323.5	342.9	373.3	412.5	452.9	470.2	*465.5*	443.5	385.1
22.5°	319.6	320.4	325.9	341.0	369.2	417.0	474.1	508.6	*506.0*	483.1	413.5
25°	348.6	351.2	348.0	350.6	371.0	419.4	491.3	547.0	*547.6*	524.5	442.9
27.5°	407.4	403.9	396.1	382.9	385.3	425.9	506.0	583.1	*588.4*	564.9	469.0
30°	467.2	465.1	460.4	439.8	422.7	440.4	518.4	620.0	*628.4*	604.7	492.3
32.5°	534.3	536.4	528.0	503.3	474.1	469.8	531.3	655.1	*670.9*	649.8	519.6
35°	614.5	615.1	598.6	571.3	538.2	518.4	554.3	693.9	*722.9*	707.4	556.2
37.5°	692.7	696.4	687.4	644.3	614.9	578.8	592.5	743.7	*784.5*	778.4	602.1
40°	761.9	767.6	764.7	723.1	684.5	654.1	651.7	802.1	*859.0*	866.0	662.7
42.5°	817.0	820.7	822.9	793.3	759.2	742.1	724.7	869.9	*947.0*	975.4	737.0
45°	875.2	876.4	881.1	861.1	831.3	832.7	811.1	952.1	*1039.7*	1096.6	822.3
47.5°	949.2	953.3	951.1	930.1	903.1	919.2	900.3	1036.8	*1131.1*	1226.0	909.7
50°	1039.5	1043.7	1041.7	1017.2	987.2	993.9	982.1	1119.1	*1219.3*	1348.1	982.3
52.5°	1086.0	1089.5	1114.8	1125.8	1110.1	1067.2	1051.9	1209.5	*1293.8*	1448.5	1049.1
55°	1063.5	1066.0	1121.1	1167.6	1225.2	1182.3	1122.1	1279.3	*1359.5*	1526.8	1098.6
57.5°	970.5	983.7	1058.6	1137.4	1258.5	1296.0	1236.0	1355.2	*1422.8*	1581.3	1147.4
60°	779.6	779.0	886.4	1027.8	1193.6	1327.2	1396.8	1457.9	*1486.2*	1623.2	1212.7
62.5°	430.8	434.7	577.6	763.9	1013.1	1246.4	1517.5	1635.2	*1630.9*	1696.2	1315.0
65°	214.5	222.3	299.8	437.6	674.1	1030.1	1538.3	1905.8	*1893.6*	1868.3	1526.2
67.5°	*136.1*	*139.2*	*182.1*	*254.3*	*374.7*	*662.1*	*1408.7*	*2107.7*	*2136.1*	*2072.4*	*1735.8*
70°	88.2	93.3	126.5	173.9	226.1	341.2	1031.9	1976.9	*2042.0*	2049.9	1605.2
72.5°	48.0	51.6	80.8	124.1	163.3	170.6	579.6	1483.6	*1588.3*	1738.9	1255.8
75°	27.3	30.0	44.3	84.3	119.8	103.9	257.0	993.1	*1059.9*	1242.7	899.9
77.5°	16.5	18.8	24.9	41.0	75.1	69.4	97.1	604.5	*647.0*	741.5	472.3
80°	7.6	9.0	15.7	22.7	41.0	32.9	37.1	281.9	*291.0*	304.3	156.3
82.5°	3.5	4.1	7.1	13.5	23.3	19.0	14.3	65.1	*91.6*	86.7	39.8
85°	0.4	0.4	2.7	5.5	6.5	4.9	5.9	14.7	*18.6*	26.1	11.4
87.5°	0.0	0.0	0.2	0.2	0.4	0.6	1.2	1.8	*2.7*	4.3	2.9
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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Scaled Data Report

REPORT NUMBER: P629582
CATALOG NUMBER: GWS-SA1B-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2
2.5°	252.1	246.3	241.2	233.7	228.6	222.9	219.0	214.3	212.5	211.0	209.0
5°	257.8	248.6	236.1	222.3	210.8	200.0	190.0	183.5	177.8	177.0	174.1
7.5°	267.2	253.5	232.5	209.8	190.4	172.5	158.4	146.9	141.2	139.4	136.1
10°	279.6	260.8	227.0	192.3	164.3	142.9	126.9	114.1	105.1	101.8	99.4
12.5°	293.5	267.6	218.2	170.6	138.8	114.3	94.1	80.4	74.7	72.7	70.8
15°	309.4	273.9	204.3	149.0	113.9	84.1	69.8	63.9	61.4	60.8	60.2
17.5°	324.7	278.0	187.8	126.5	87.6	65.3	58.6	56.3	55.7	55.1	54.7
20°	342.1	280.8	168.4	105.3	68.0	55.3	52.0	50.4	49.2	48.0	47.8
22.5°	359.8	280.8	147.4	84.5	56.9	49.6	45.9	42.9	40.6	39.4	39.0
25°	376.8	277.0	126.5	67.6	50.2	44.1	39.4	35.9	32.9	31.4	31.0
27.5°	388.8	267.0	108.4	57.1	45.5	39.2	33.5	29.6	27.1	25.7	25.5
30°	396.4	252.1	91.6	51.0	41.4	34.1	28.4	25.1	23.3	22.2	21.8
32.5°	402.1	233.7	76.7	46.7	37.6	29.6	24.7	22.0	20.4	19.6	19.4
35°	413.5	216.3	65.7	42.9	33.5	25.9	21.6	19.6	18.4	17.3	17.1
37.5°	429.4	201.9	56.9	39.4	29.6	23.1	19.6	17.8	16.7	15.7	15.5
40°	452.9	192.7	50.4	35.9	26.1	20.8	18.0	16.3	14.9	13.9	13.7
42.5°	489.0	188.4	46.1	32.5	23.1	18.8	16.5	14.5	13.1	12.0	11.8
45°	532.1	190.6	42.5	29.0	21.0	17.3	14.7	12.7	11.2	10.2	10.0
47.5°	578.2	198.6	39.4	25.7	19.0	15.9	13.1	10.8	9.6	8.6	8.4
50°	626.4	211.6	36.7	22.7	17.3	14.3	11.2	9.4	8.2	7.3	7.1
52.5°	668.2	229.4	34.1	20.4	15.9	12.7	9.8	8.2	6.9	6.1	5.9
55°	708.2	246.1	32.0	18.4	14.3	11.0	8.6	6.9	5.9	5.1	4.9
57.5°	751.7	263.9	29.6	16.5	12.9	9.8	7.6	5.9	5.1	4.3	4.1
60°	815.0	290.2	25.9	15.1	11.2	8.6	6.5	5.3	4.5	3.5	3.3
62.5°	906.2	338.2	21.8	13.1	9.6	7.3	5.5	4.5	3.7	2.9	2.4
65°	1076.8	419.8	18.0	10.8	7.8	6.1	4.7	3.7	2.9	2.0	1.8
67.5°	*1199.7*	*441.1*	*14.5*	*8.8*	*6.3*	*4.7*	*3.9*	*2.9*	*2.0*	*1.4*	*1.2*
70°	1048.8	316.8	11.2	7.1	5.3	3.7	3.1	2.2	1.4	1.0	0.8
72.5°	790.3	207.0	8.4	5.5	4.1	3.1	2.2	1.8	1.2	0.8	0.6
75°	557.0	119.6	6.1	4.1	2.9	2.2	1.8	1.4	1.0	0.6	0.6
77.5°	285.5	49.4	4.3	2.9	2.0	1.4	1.2	0.8	0.8	0.6	0.4
80°	86.7	16.3	2.4	1.8	1.4	1.0	0.6	0.6	0.6	0.4	0.2
82.5°	19.8	5.3	1.4	1.4	1.0	0.8	0.6	0.2	0.2	0.0	0.0
85°	5.1	1.6	1.2	1.0	1.0	0.8	0.4	0.2	0.0	0.0	0.0
87.5°	1.8	1.0	1.0	1.0	0.8	0.6	0.4	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

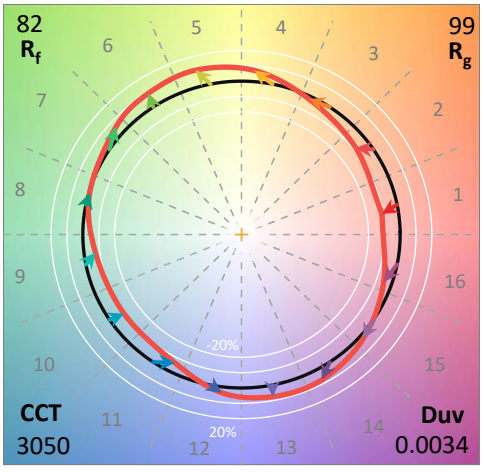
Test Information

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

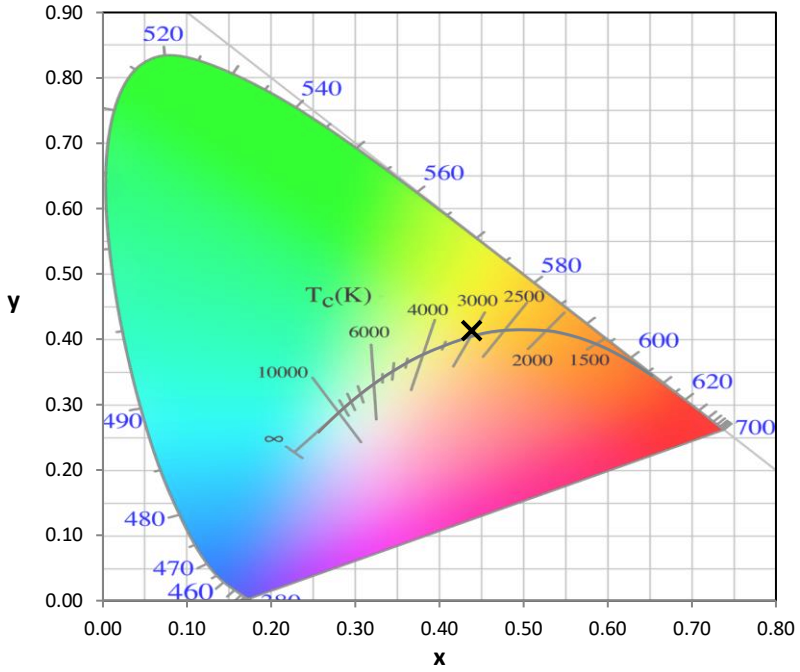
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

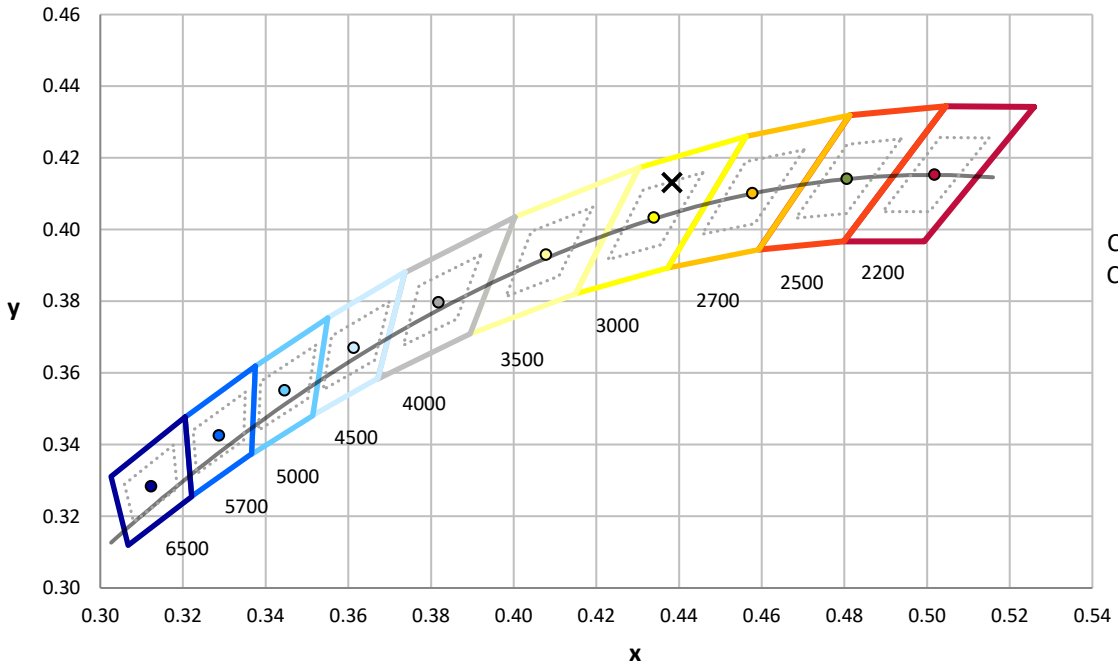
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

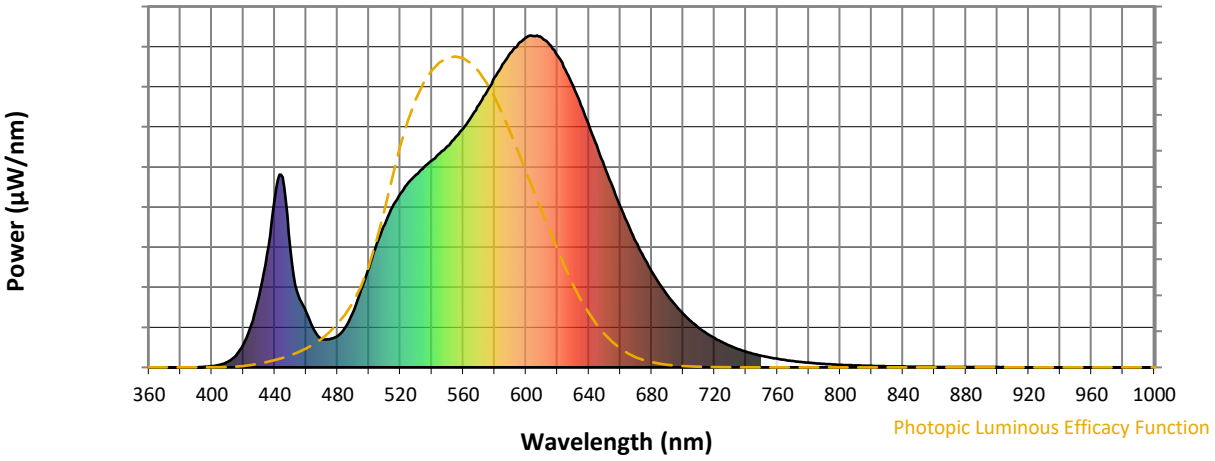


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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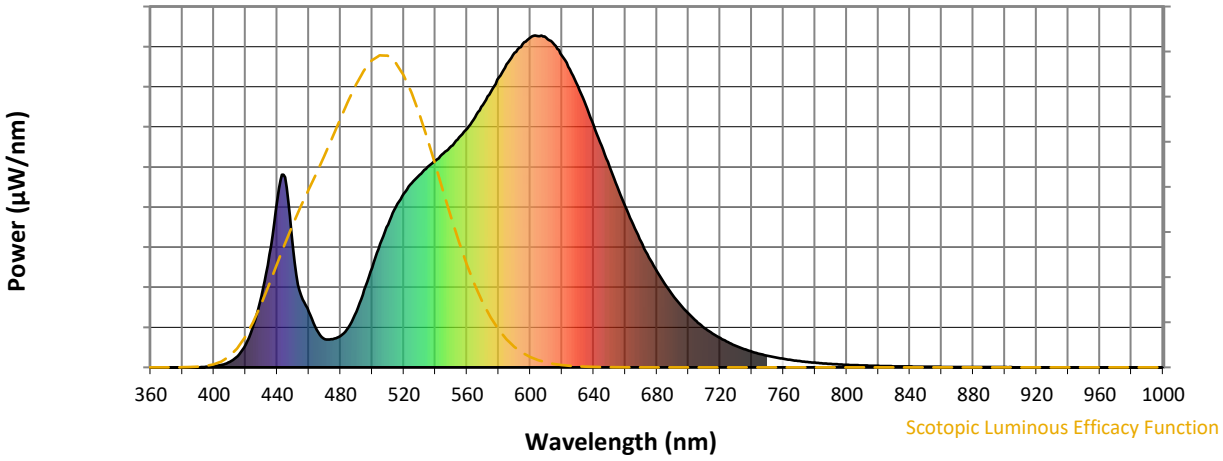
Scotopic Flux vs. Wavelength



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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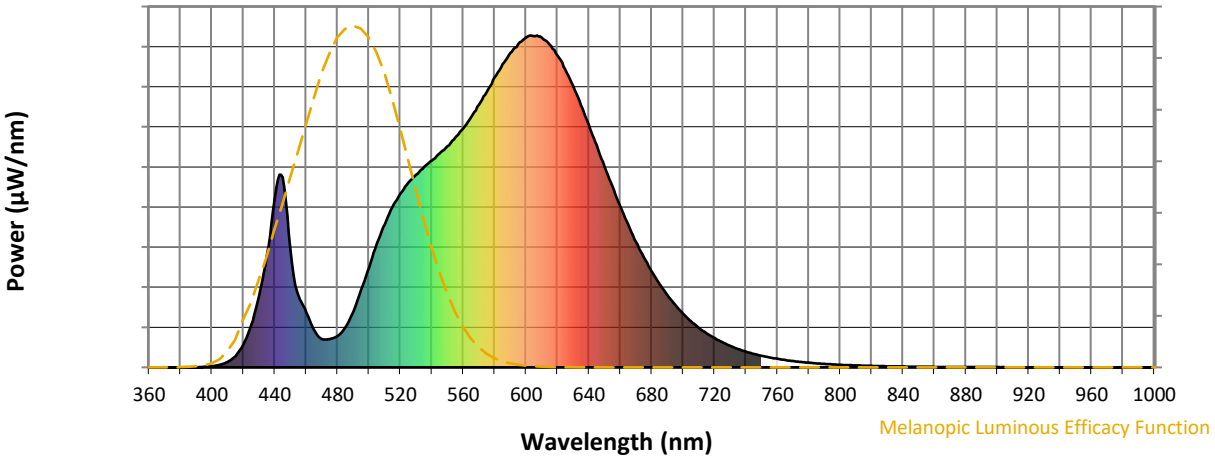
Melanopic Flux vs. Wavelength



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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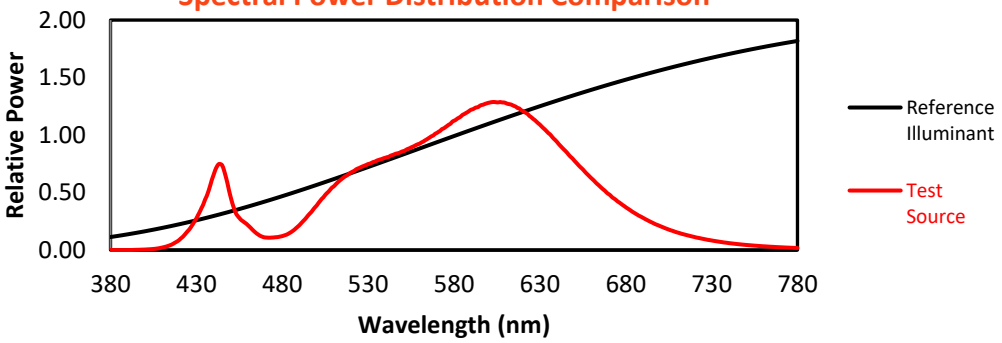
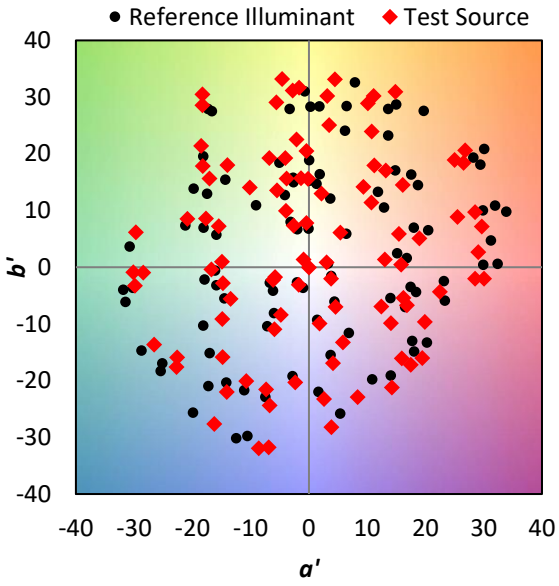
Summary

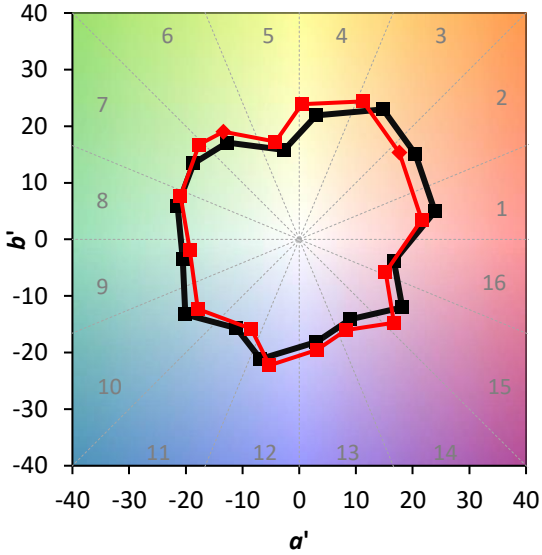
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

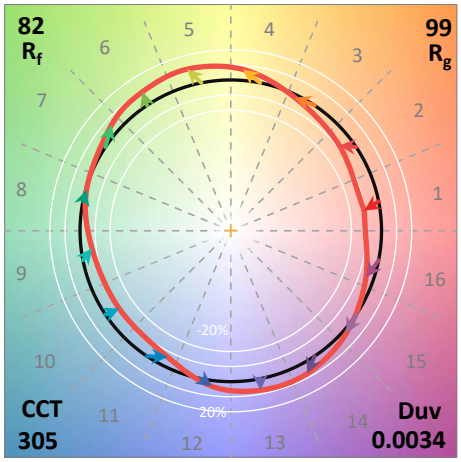
Spectral Power Distribution Comparison

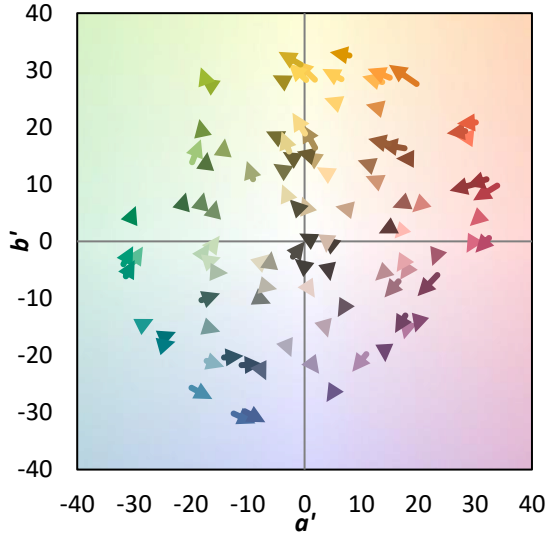


Color Vector Graphics









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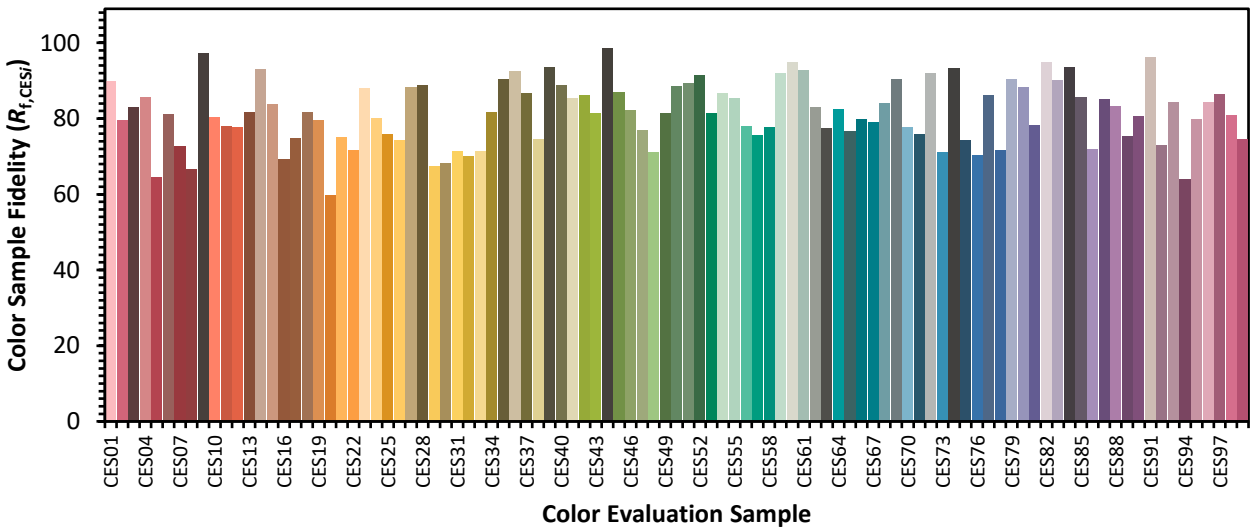
Individual Sample Fidelity Index ($R_{f,i}$)

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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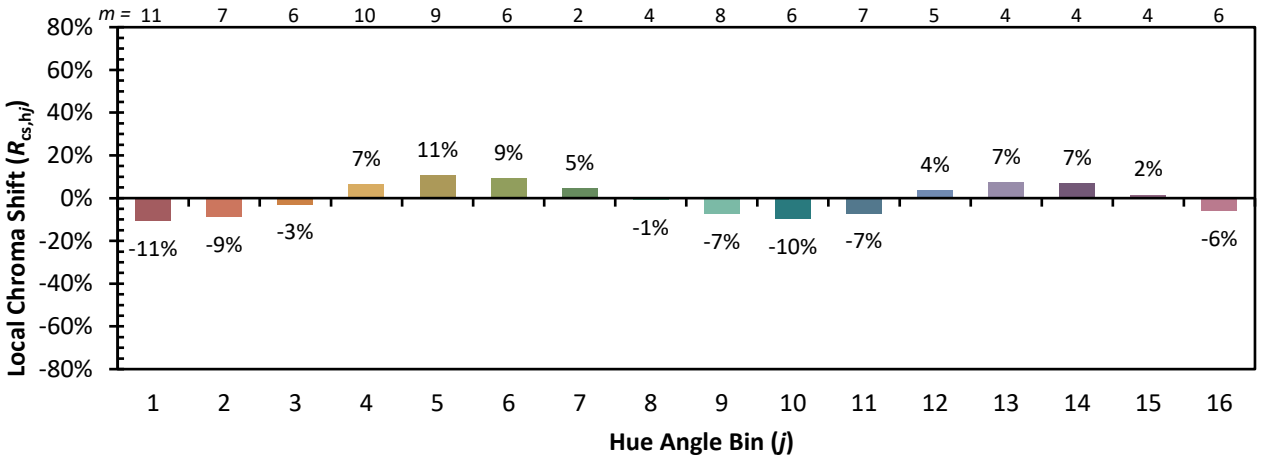
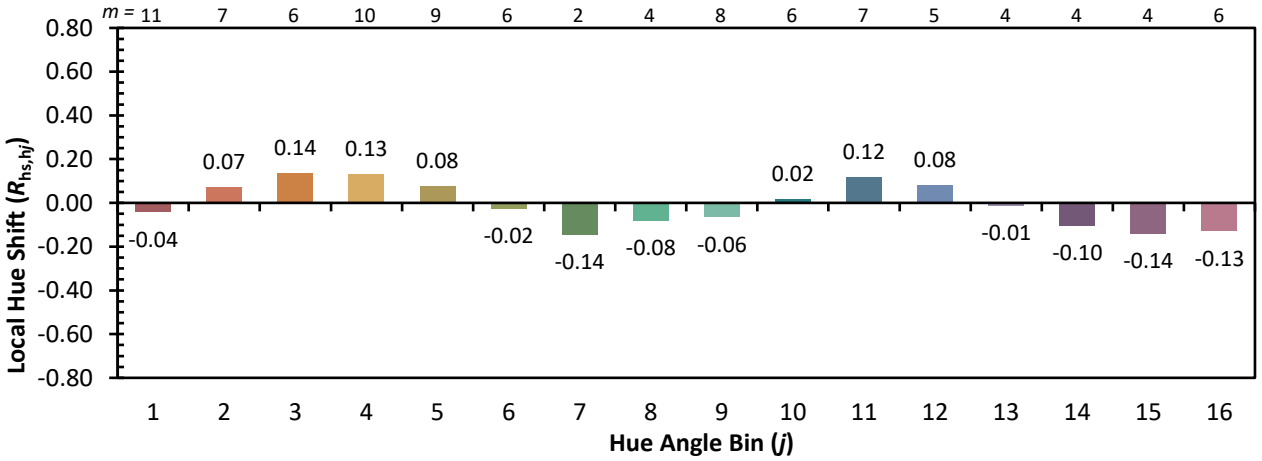
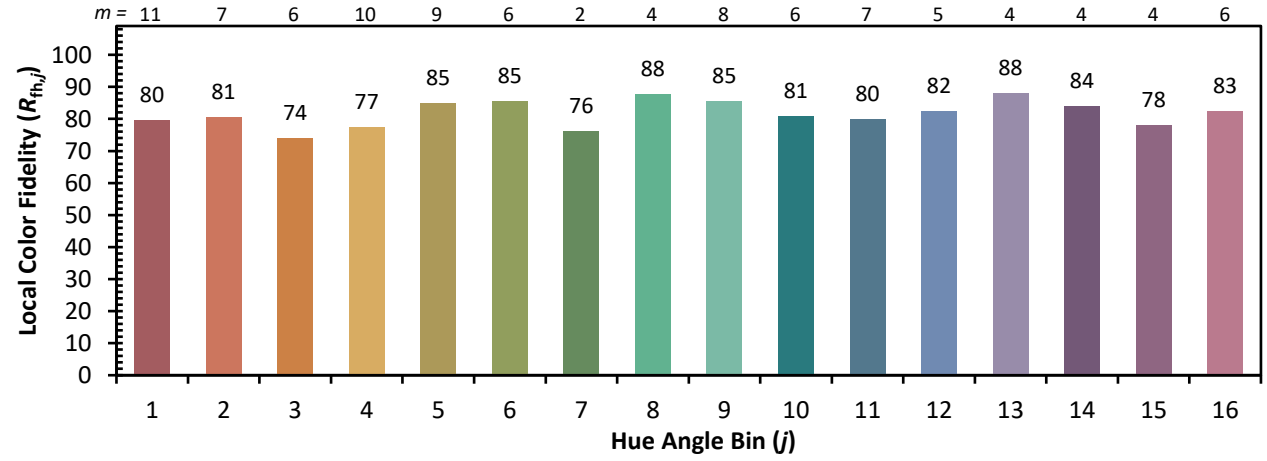
Color Rendition by Hue-Angle Bin







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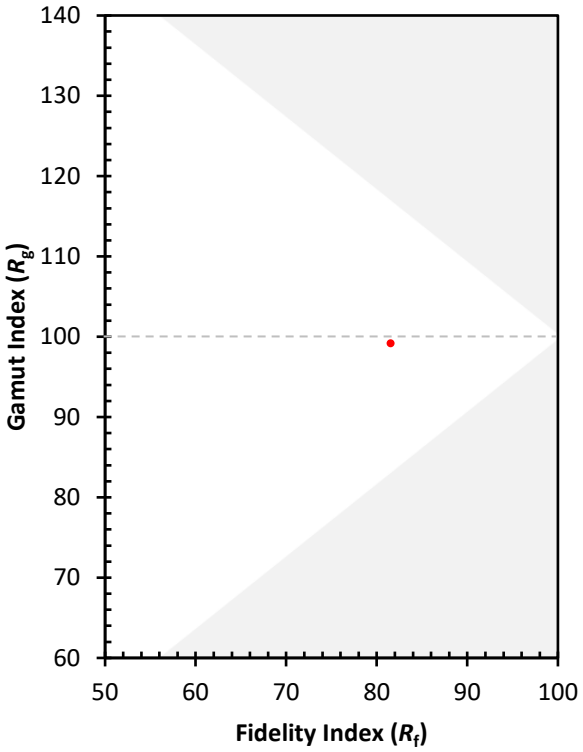
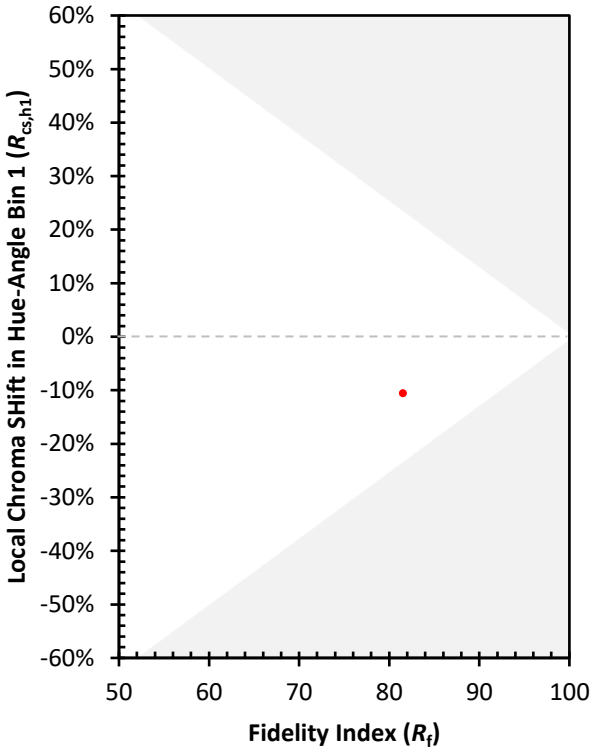
Measure Comparisons





(END OF REPORT)