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: P630079

Luminaire Tested: GWS-SA1C-830-U-T2R-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:	P630079
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1C-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3079.4 lumens
Efficiency:	N/A
Efficacy:	90.3 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):	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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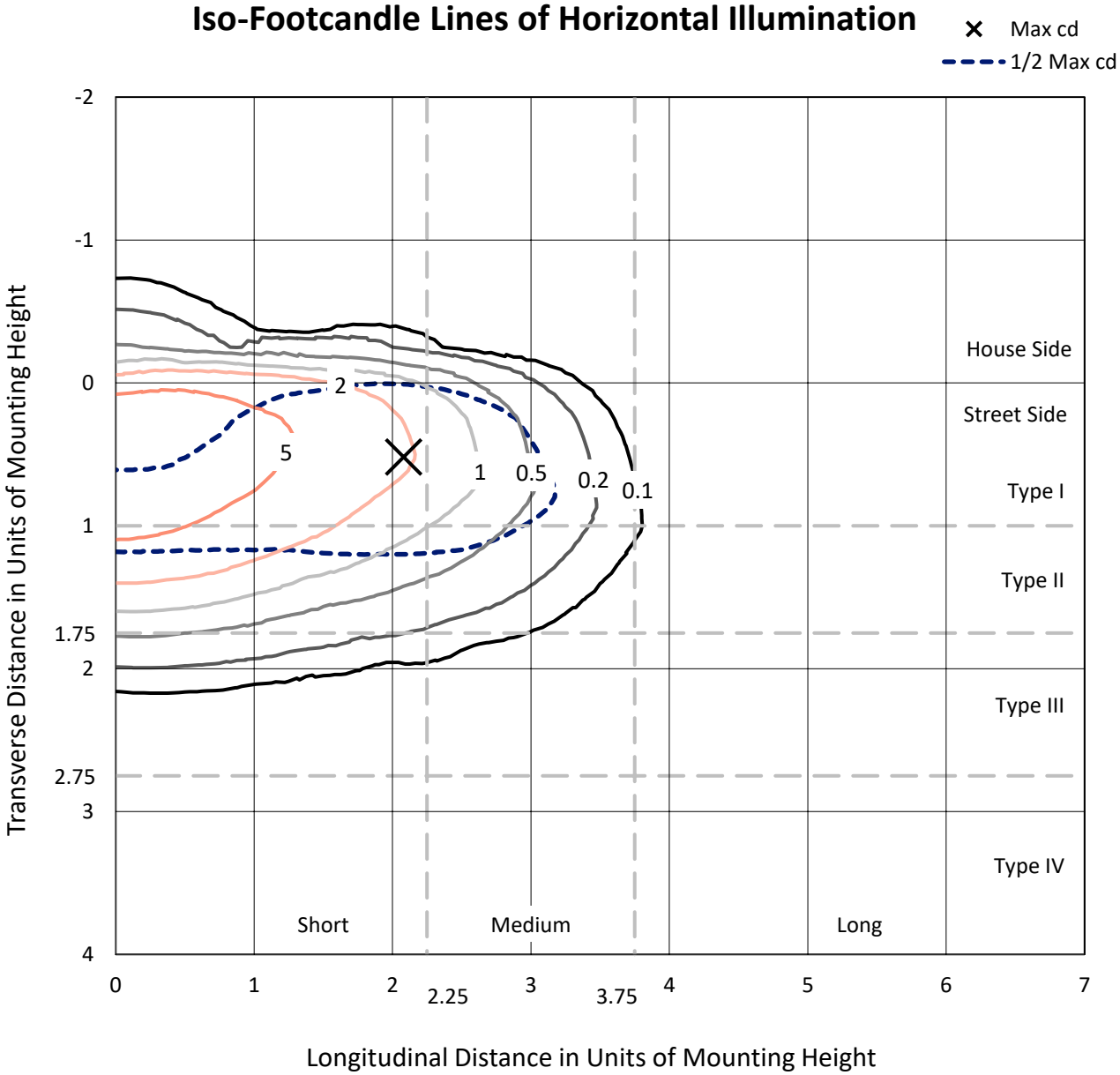
Scaled Data Report

REPORT NUMBER: P630079
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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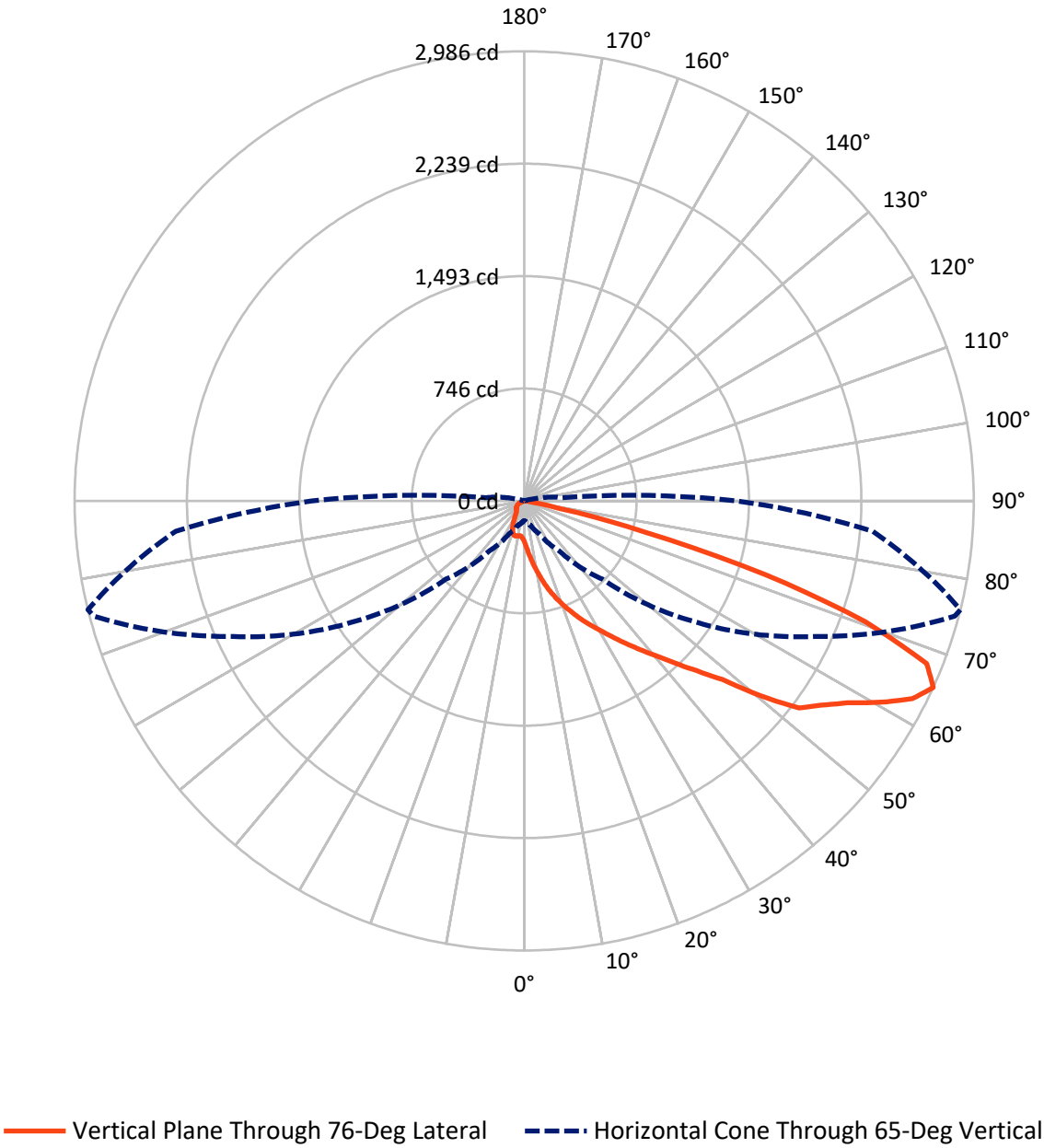
Luminous Intensity Polar Plot



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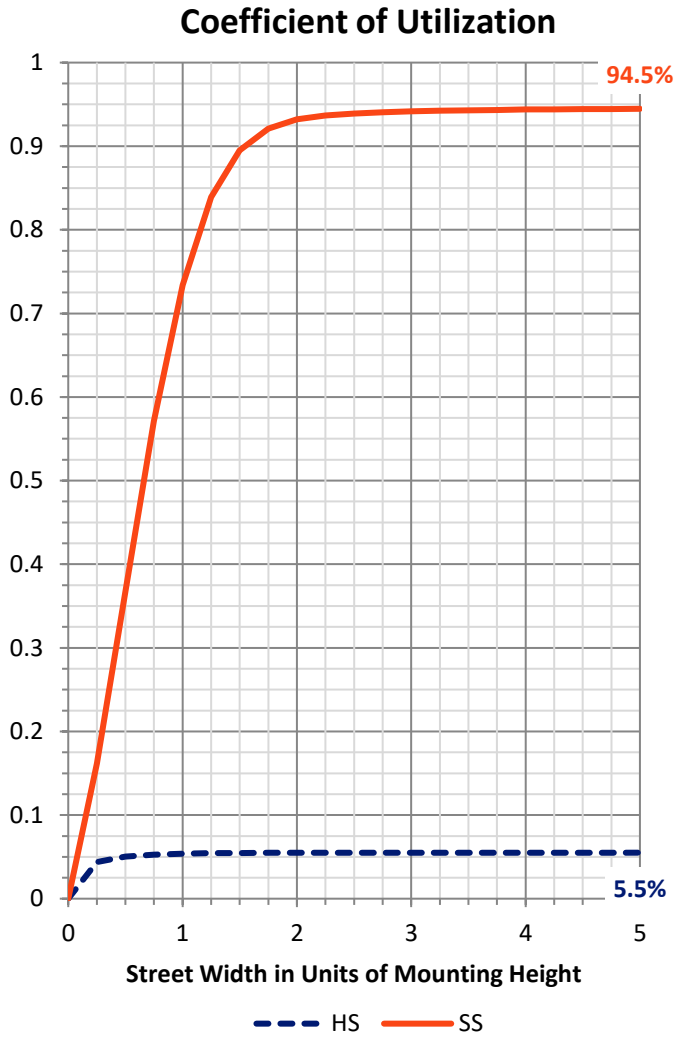
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	170.3	0.0	170.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	2909.1	0.0	2909.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	3079.4	0.0	3079.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.1
10°-20°	125.9	4.1
20°-30°	256.8	8.3
30°-40°	456.7	14.8
40°-50°	675.1	21.9
50°-60°	772.9	25.1
60°-70°	589.7	19.1
70°-80°	165.2	5.4
80°-90°	4.2	0.1
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°	3079.4	100.0
0°-180°	3079.4	100.0



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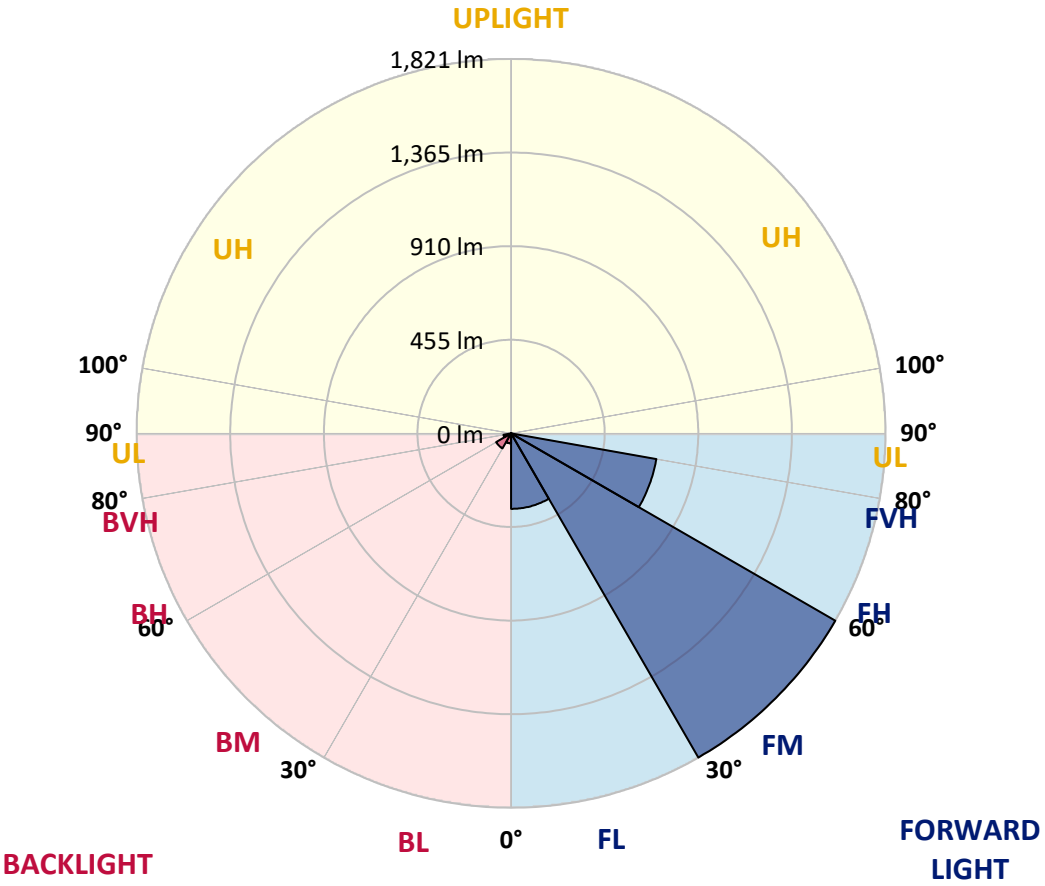
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	367.2	11.9			
FM	(30°-60°)	1820.6	59.1			
FH	(60°-80°)	717.4	23.3			G1/1800
FVH	(80°-90°)	3.9	0.1			G0/10
BL	(0°-30°)	48.6	1.6	B0/110		
BM	(30°-60°)	84.0	2.7	B0/220		
BH	(60°-80°)	37.4	1.2	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: B0-U0-G1
Type II Short



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REPORT NUMBER: P630079
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	*272.6*	272.6
2.5°	420.2	426.5	421.6	413.3	397.5	382.1	362.4	335.3	313.7	*311.0*	290.7
5°	567.5	566.9	556.2	545.6	528.9	502.6	462.9	412.5	364.1	*360.0*	314.5
7.5°	655.0	655.9	649.8	641.6	625.2	598.1	556.8	496.0	425.1	*416.9*	347.1
10°	728.7	728.4	724.0	720.2	705.4	687.3	643.0	576.2	490.8	*477.9*	383.5
12.5°	784.0	785.9	788.1	791.9	785.6	767.8	725.9	653.1	557.3	*543.1*	425.1
15°	827.8	828.3	836.5	851.3	856.5	847.2	809.2	727.6	623.0	*610.7*	473.0
17.5°	840.9	842.0	856.0	883.1	910.4	915.6	886.9	802.6	687.6	*674.5*	519.5
20°	868.6	871.0	881.4	905.2	939.7	967.7	956.4	878.4	752.2	*735.0*	567.2
22.5°	955.6	957.0	953.4	956.4	974.2	1006.5	1013.4	951.8	818.5	*800.1*	618.6
25°	1105.3	1105.9	1081.0	1057.4	1044.0	1050.0	1065.1	1019.4	884.2	*866.1*	666.5
27.5°	1260.8	1262.7	1232.9	1192.9	1145.0	1117.7	1113.3	1081.2	950.4	*930.4*	713.9
30°	1407.3	1407.3	1375.8	1327.1	1263.0	1209.6	1178.2	1143.7	1021.3	*999.4*	762.3
32.5°	1538.9	1537.8	1497.6	1444.8	1381.5	1323.0	1256.7	1208.8	1100.1	*1075.8*	818.2
35°	1647.6	1644.9	1599.2	1548.5	1480.9	1437.4	1363.5	1278.9	1185.5	*1161.2*	875.7
37.5°	1729.7	1726.7	1684.8	1631.2	1568.5	1540.3	1478.4	1362.9	1275.6	*1253.4*	939.5
40°	1774.3	1768.3	1739.3	1699.3	1646.8	1622.1	1596.4	1467.2	1381.5	*1353.9*	1014.7
42.5°	1787.5	1780.4	1761.2	1742.6	1710.8	1691.4	1719.1	1584.9	1497.9	*1474.1*	1100.7
45°	1748.6	1744.5	1742.9	1756.3	1762.0	1767.5	1835.7	1715.2	1626.3	*1608.2*	1208.8
47.5°	1655.0	1653.9	1668.4	1724.3	1785.0	1842.8	1962.4	1875.9	1792.7	*1773.2*	1359.9
50°	1482.0	1493.2	1533.7	1631.7	1753.3	1885.5	2080.9	2098.7	2062.0	*2033.6*	1557.0
52.5°	1211.5	1233.2	1324.1	1473.0	1647.6	1873.4	2135.7	2277.2	2314.7	*2285.1*	1698.2
55°	950.7	970.9	1052.0	1240.8	1473.8	1781.7	2138.1	2338.8	2420.6	*2393.3*	1793.8
57.5°	708.2	726.8	800.4	981.1	1237.3	1601.3	2079.6	2373.0	2546.3	*2528.8*	1944.6
60°	462.9	481.2	547.7	705.7	959.7	1338.6	1935.3	2365.9	2717.4	*2715.7*	2129.9
62.5°	256.8	271.3	319.4	442.6	669.8	1036.6	1708.6	2294.4	2883.0	*2893.4*	2282.7
65°	*131.4*	*140.7*	*170.0*	*243.3*	*405.4*	*735.0*	*1410.6*	*2130.7*	*2959.6*	*2985.9*	*2322.9*
67.5°	86.0	89.0	96.1	126.5	217.1	462.3	1061.5	1868.2	2851.8	*2882.4*	2188.0
70°	69.8	72.3	76.4	84.3	112.0	245.5	697.2	1492.1	2382.9	*2403.7*	1742.3
72.5°	51.2	54.5	62.4	67.6	80.8	134.7	362.7	979.4	1636.4	*1673.1*	1094.9
75°	37.8	39.7	46.3	53.4	66.0	85.1	138.8	514.9	845.0	*823.7*	459.9
77.5°	22.7	24.1	29.6	34.2	47.1	53.1	48.5	190.2	257.0	*241.7*	111.1
80°	11.2	12.6	19.4	25.7	30.1	21.4	20.3	53.1	57.2	*57.2*	27.9
82.5°	3.8	4.9	10.4	17.0	14.8	8.2	9.6	13.7	15.3	*16.2*	8.2
85°	0.0	0.0	2.5	4.9	2.2	1.1	2.5	3.0	3.8	*4.1*	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	*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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REPORT NUMBER: P630079
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6	272.6
2.5°	279.8	266.9	247.5	229.9	216.5	203.9	194.4	186.7	185.3	180.9	181.5
5°	292.3	269.1	233.2	205.6	186.1	173.0	162.1	153.8	150.3	146.7	144.0
7.5°	311.8	278.1	227.7	194.1	171.4	151.1	134.1	120.4	113.9	109.8	107.0
10°	335.6	290.7	228.0	187.2	153.6	122.6	99.4	84.3	77.2	75.0	74.7
12.5°	364.1	306.6	230.2	176.0	127.8	91.2	73.6	66.8	64.6	62.7	62.7
15°	394.2	324.4	230.2	155.5	97.4	71.2	63.8	59.4	56.7	55.6	55.0
17.5°	425.9	341.1	224.7	127.3	74.7	62.7	56.7	52.6	50.4	48.7	48.2
20°	459.9	356.9	211.0	97.4	64.1	56.1	50.4	46.3	44.1	42.4	42.4
22.5°	494.4	371.7	188.9	75.0	56.7	49.8	44.3	40.5	38.3	36.7	36.7
25°	526.4	381.6	160.4	61.9	51.2	44.3	39.4	35.6	33.1	32.0	31.5
27.5°	556.2	387.9	128.9	54.5	46.0	39.7	34.5	30.9	29.0	28.2	27.6
30°	587.2	389.5	98.5	49.5	41.6	35.0	30.1	27.4	25.7	24.6	24.6
32.5°	617.3	387.6	75.3	45.4	37.8	30.9	26.8	24.4	23.0	22.2	21.9
35°	647.9	378.8	61.0	41.9	33.9	27.1	23.8	21.9	21.1	20.0	20.0
37.5°	681.3	367.1	53.1	38.3	30.1	24.4	21.4	20.0	18.9	18.1	17.8
40°	722.9	353.4	48.7	35.3	26.6	21.9	19.2	17.8	17.0	16.2	15.9
42.5°	772.2	340.0	46.5	32.0	23.8	19.4	17.2	15.6	14.8	13.7	13.4
45°	842.0	337.0	44.1	28.5	21.4	17.5	15.1	13.4	12.3	11.5	11.2
47.5°	954.2	345.5	40.0	24.6	18.9	15.3	12.9	11.5	10.1	9.3	8.8
50°	1065.6	343.3	35.9	21.4	16.7	13.1	10.9	9.6	8.2	7.4	7.1
52.5°	1126.4	332.9	32.0	18.9	14.5	11.2	9.3	7.7	6.8	6.0	5.7
55°	1181.4	328.8	28.2	16.4	12.3	9.9	7.7	6.3	5.7	4.9	4.7
57.5°	1289.3	338.3	24.9	14.2	10.7	8.5	6.6	5.2	4.7	3.8	3.6
60°	1402.1	339.4	21.4	12.3	9.3	7.1	5.2	4.1	3.6	2.7	2.5
62.5°	1460.9	311.8	17.5	10.4	7.7	6.0	4.4	3.3	2.7	1.6	1.6
65°	*1411.6*	*252.1*	*14.8*	*8.5*	*6.0*	*4.7*	*3.3*	*2.5*	*1.6*	*0.8*	*0.3*
67.5°	1249.3	179.3	12.3	6.8	4.4	3.3	2.5	1.6	0.3	0.0	0.0
70°	914.8	102.4	9.6	4.9	3.3	2.2	1.6	0.8	0.0	0.0	0.0
72.5°	562.2	54.7	7.1	3.3	2.5	1.6	1.4	0.5	0.0	0.0	0.0
75°	213.2	26.3	4.4	2.2	1.9	1.4	0.8	0.3	0.0	0.0	0.0
77.5°	57.8	12.9	2.5	1.6	1.4	0.8	0.5	0.0	0.0	0.0	0.0
80°	15.1	6.0	1.6	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	2.7	0.8	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.1	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	0.3	0.3	0.3	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

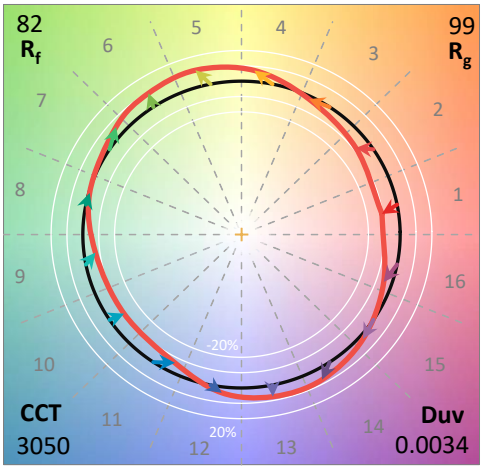
Test Information

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

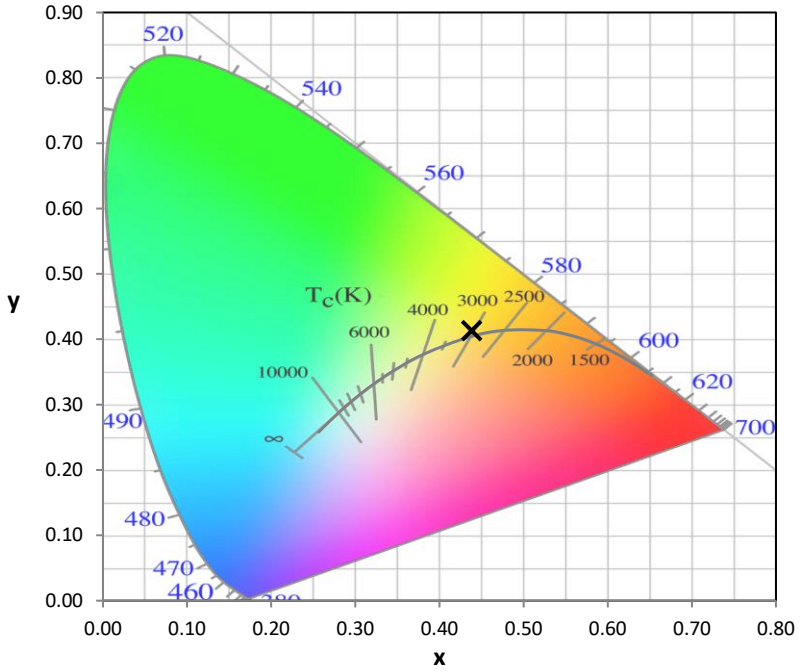
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

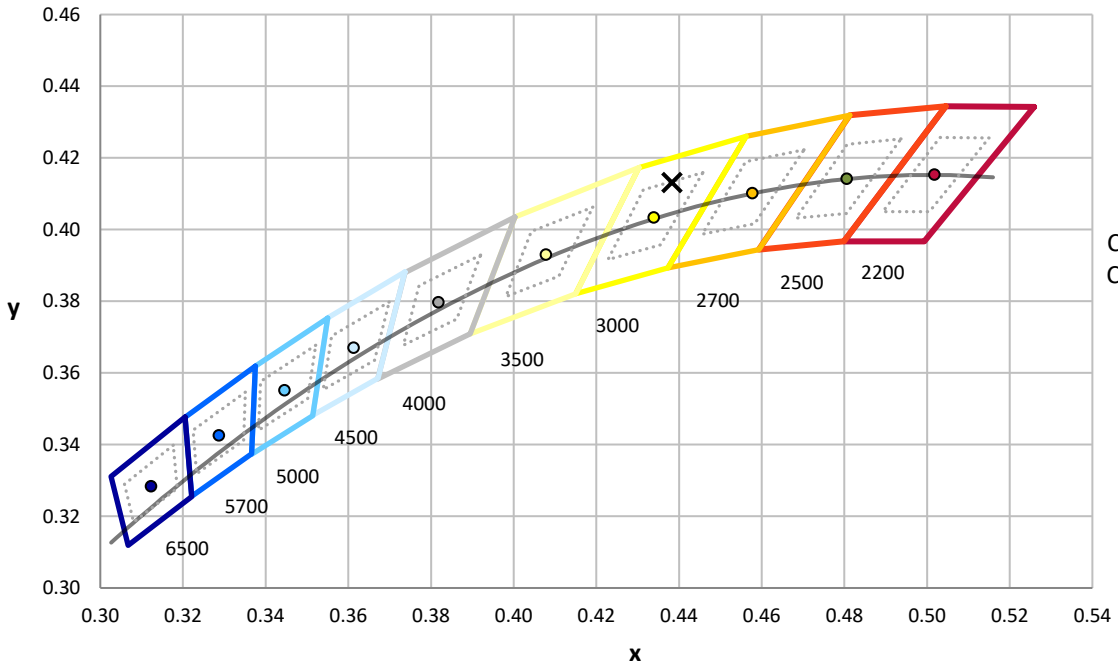
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

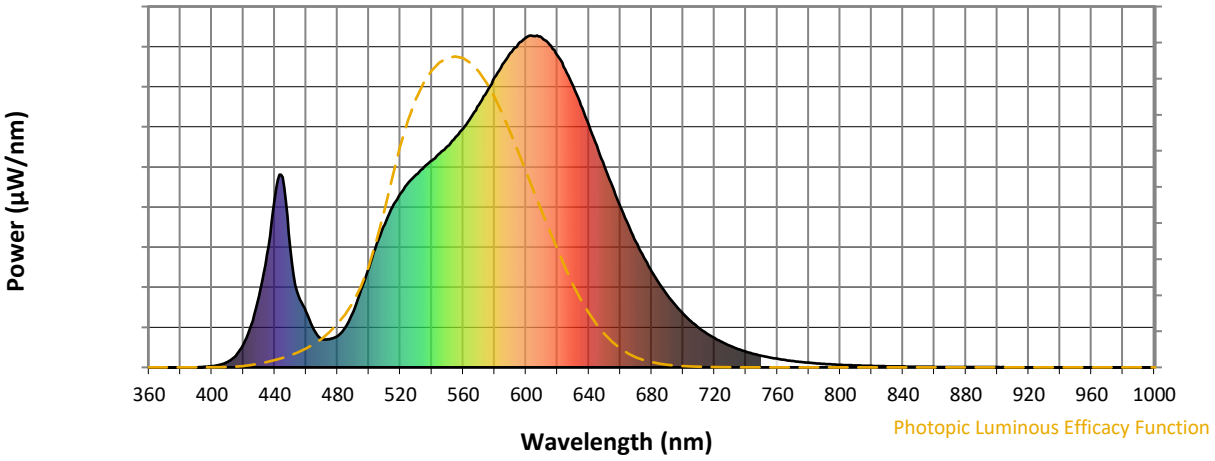


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

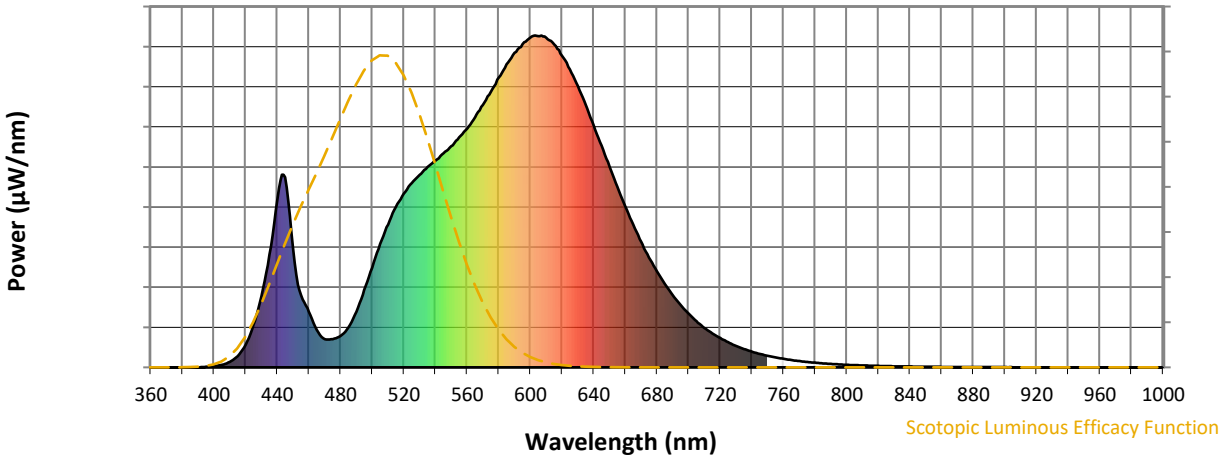


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

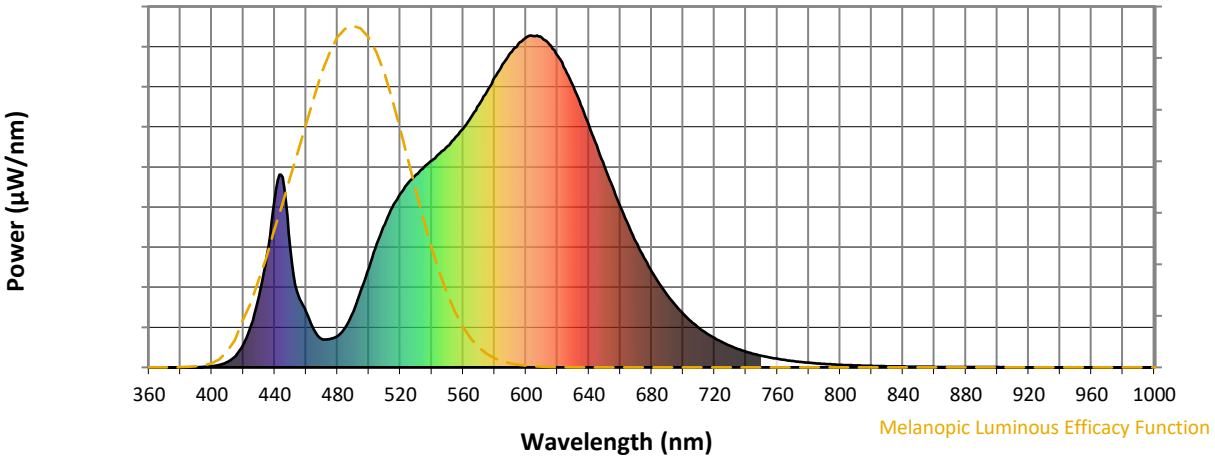


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

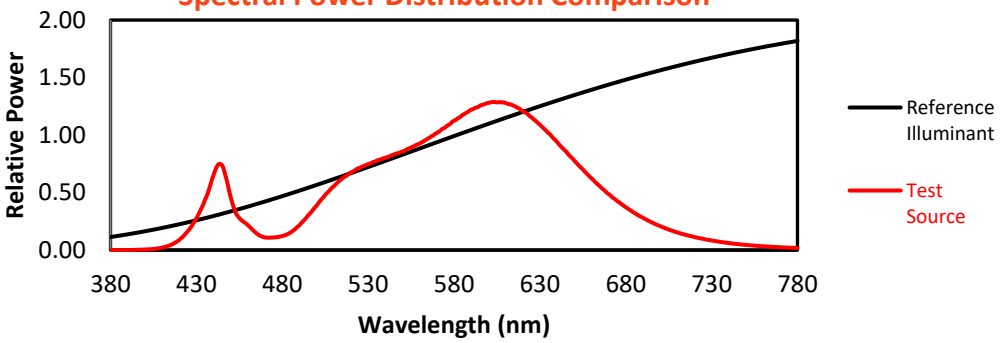
REPORT NUMBER: SP1-2408-195-9

TM-30-18

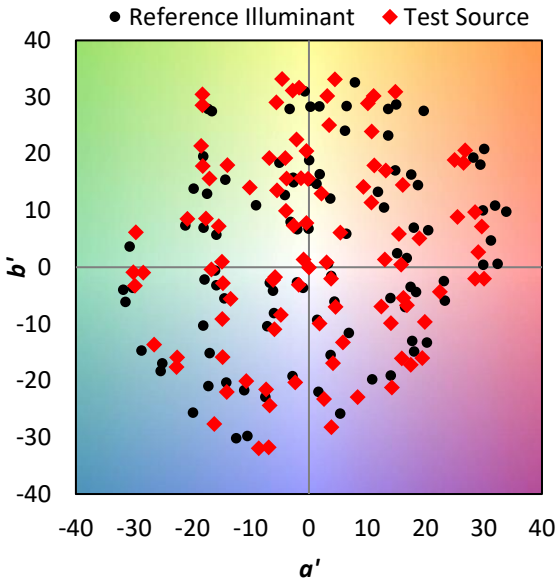
Summary

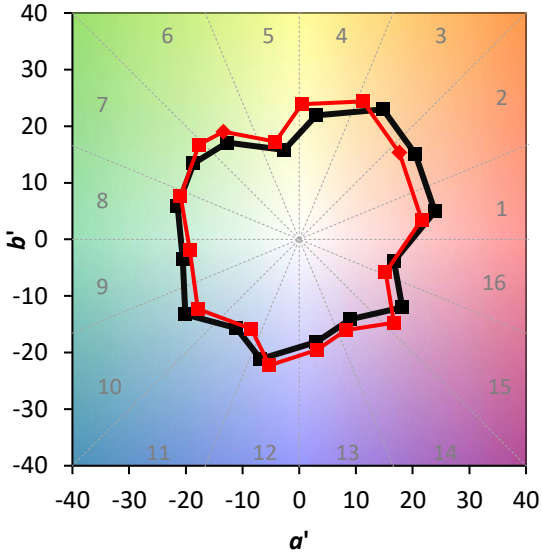
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

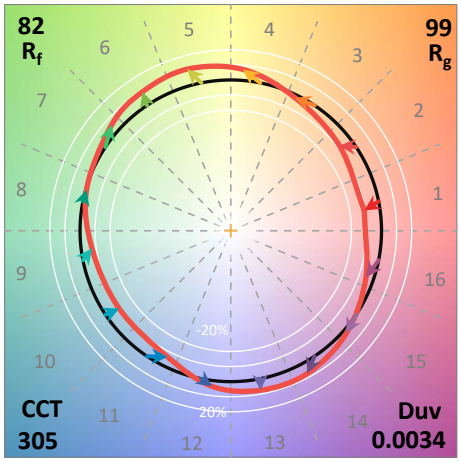
Spectral Power Distribution Comparison

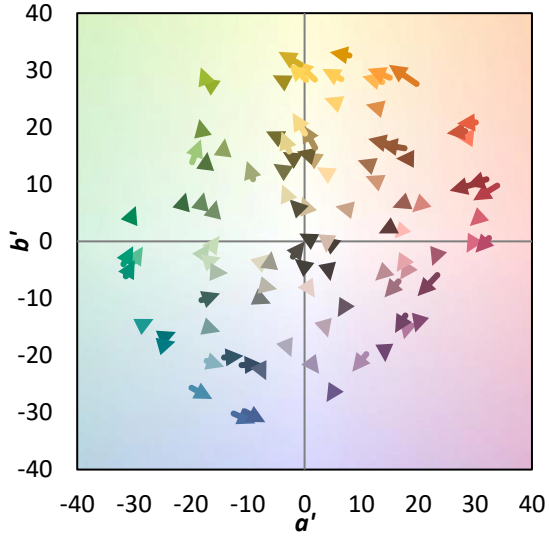


Color Vector Graphics







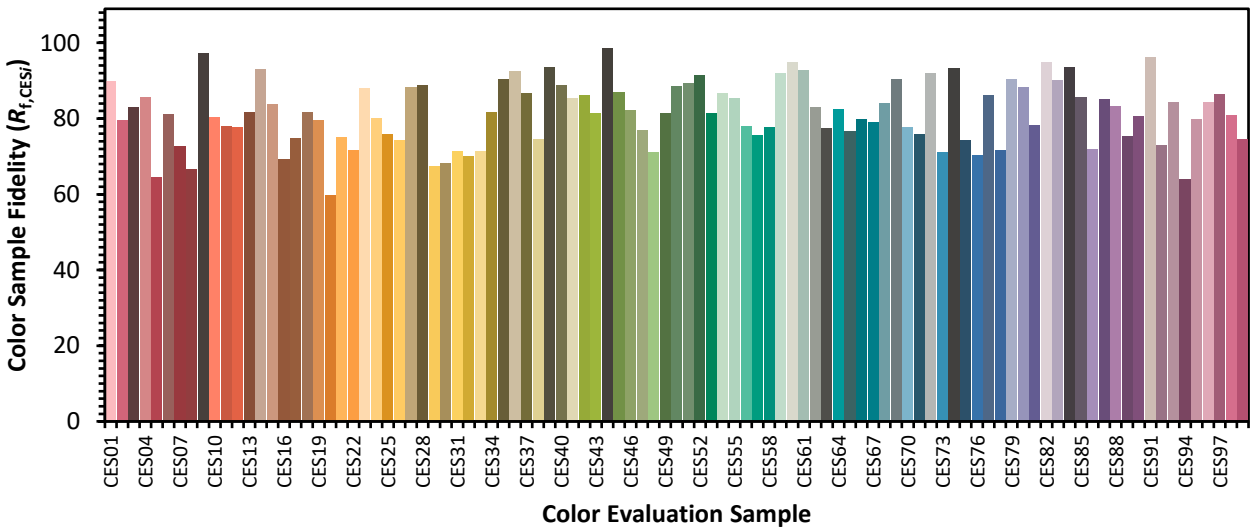


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

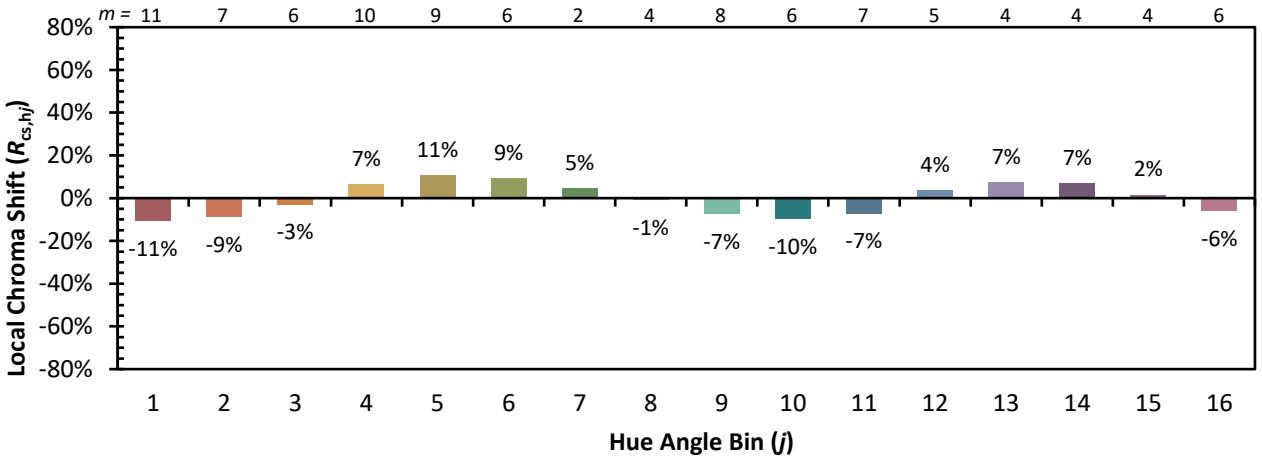
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

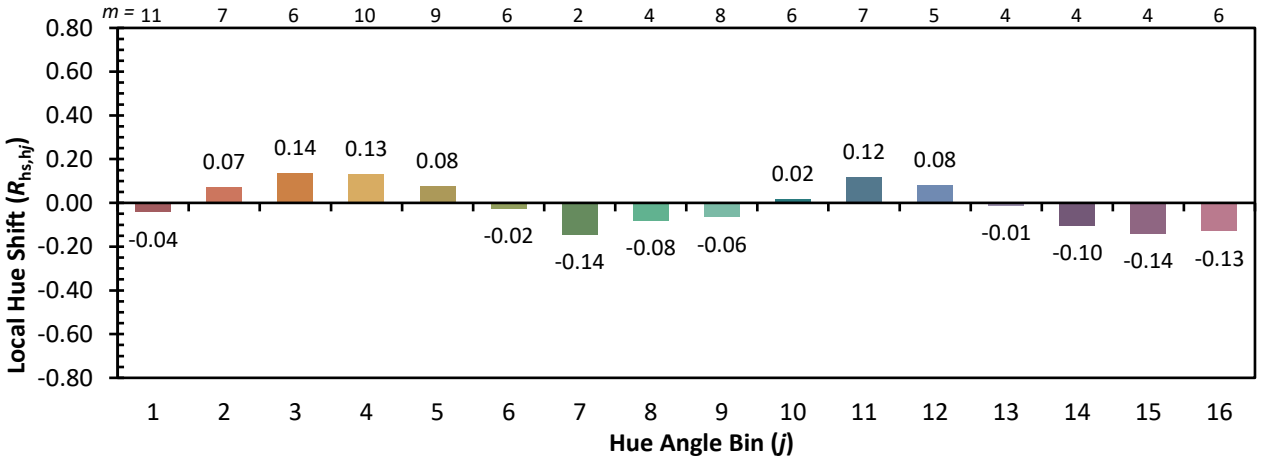


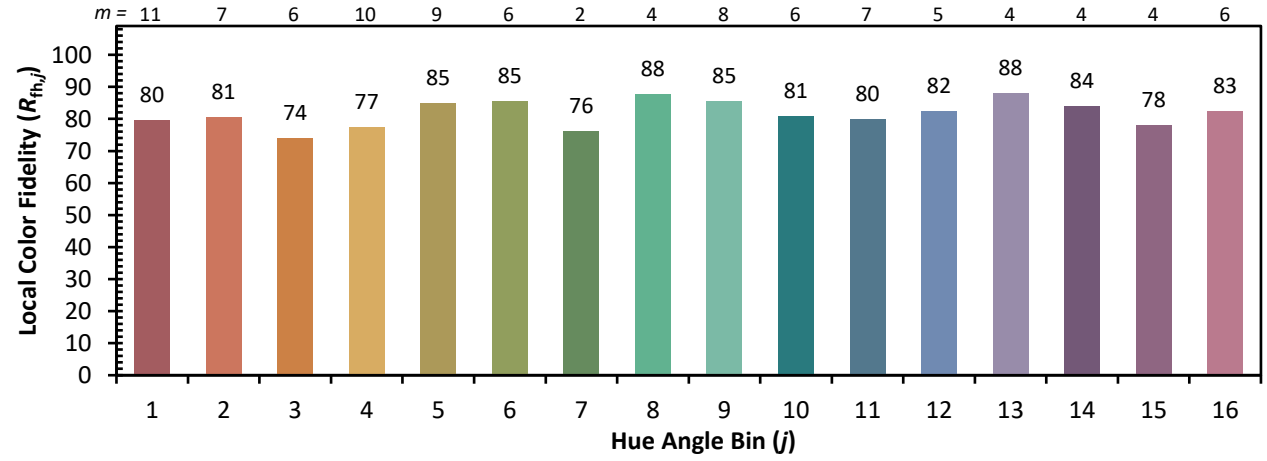
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



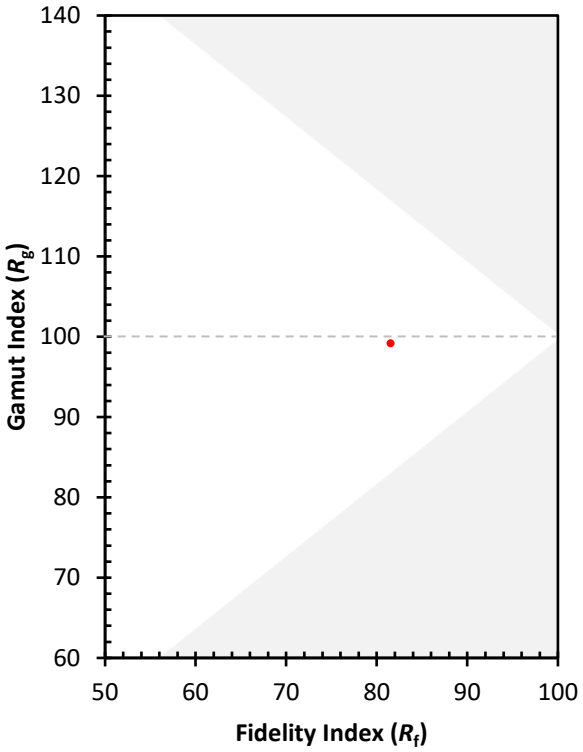


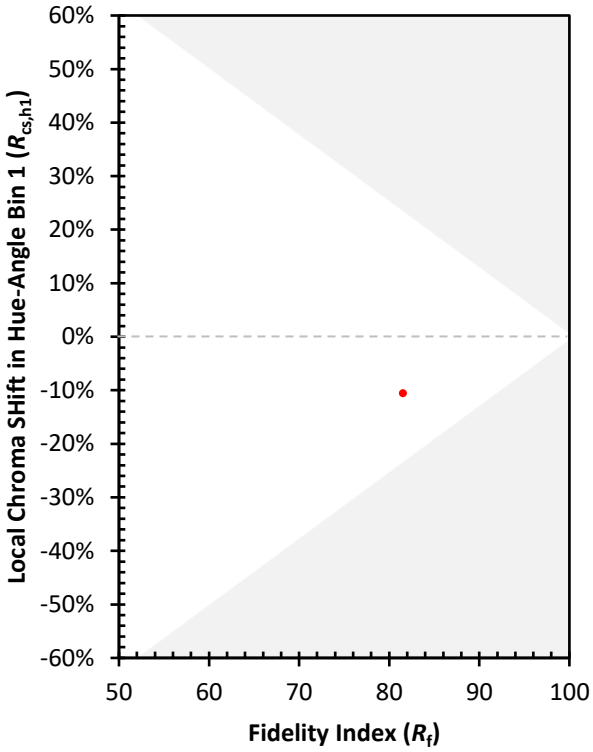


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)