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: P633053

Luminaire Tested: GWS-SA2D-830-U-T3-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:	P633053
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-T3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6809.5 lumens
Efficiency:	N/A
Efficacy:	82.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	82.1
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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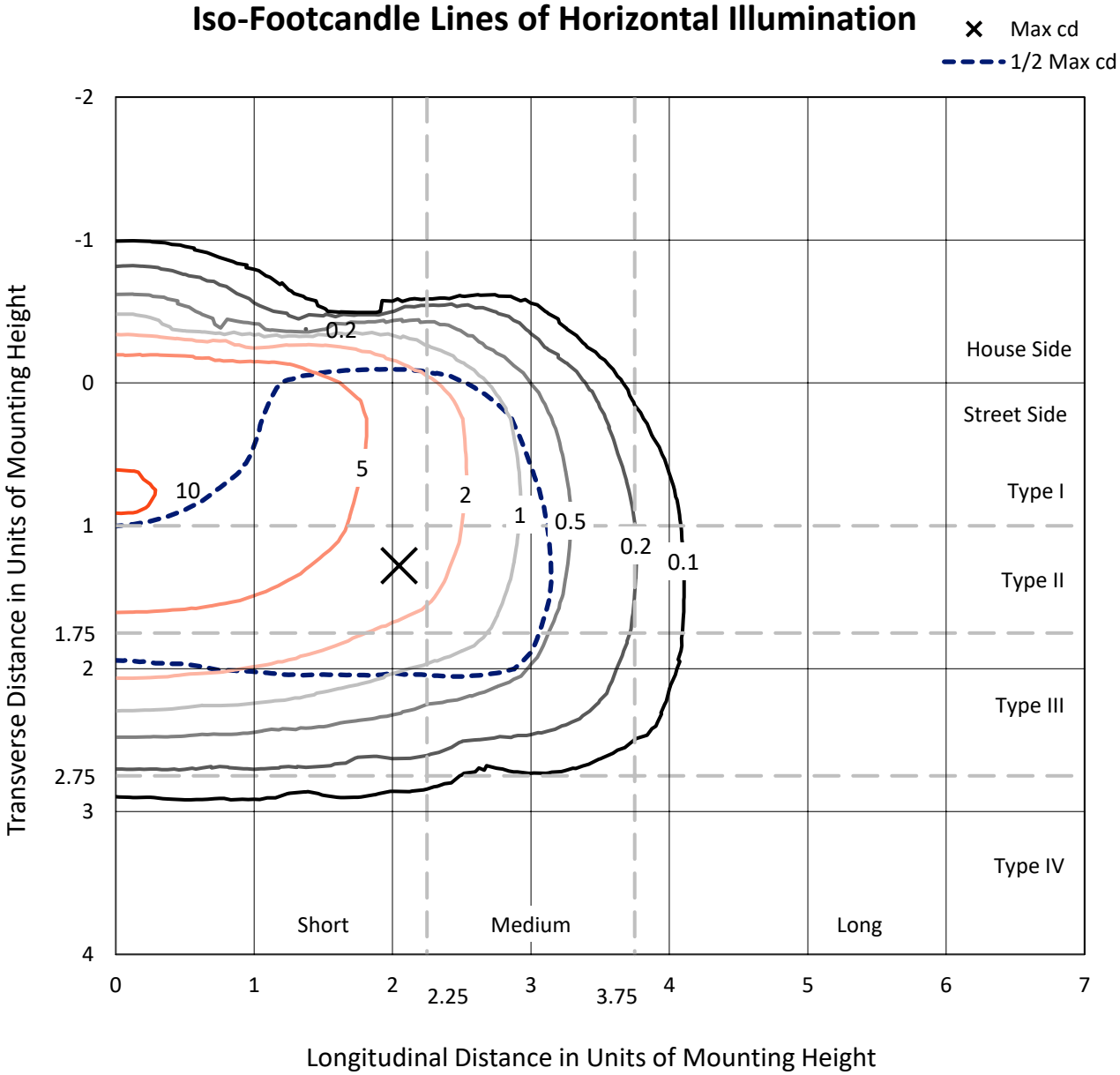
Scaled Data Report

REPORT NUMBER: P633053
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Short - N/A

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REPORT NUMBER: P633053
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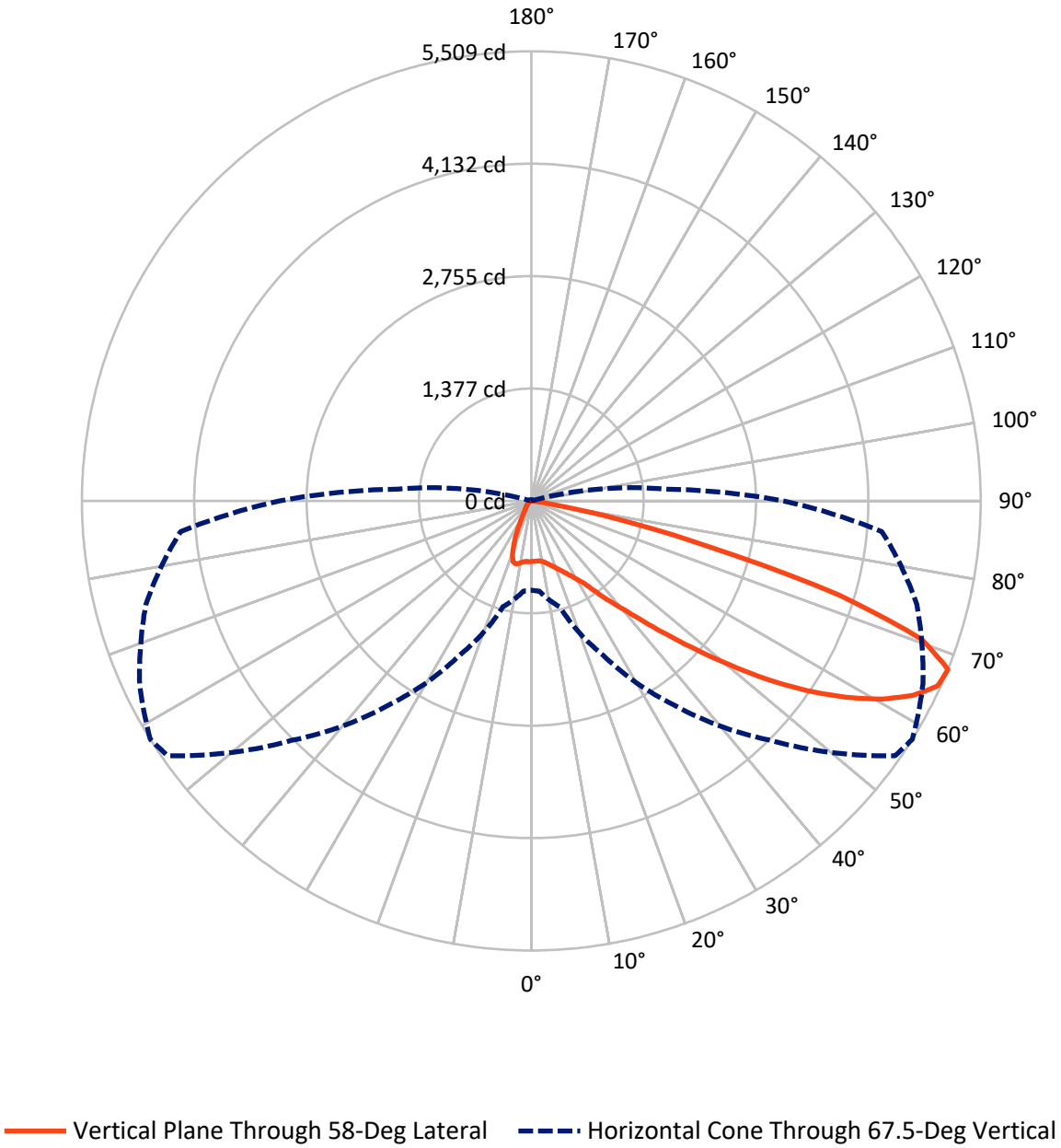
Luminous Intensity Polar Plot



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REPORT NUMBER: P633053
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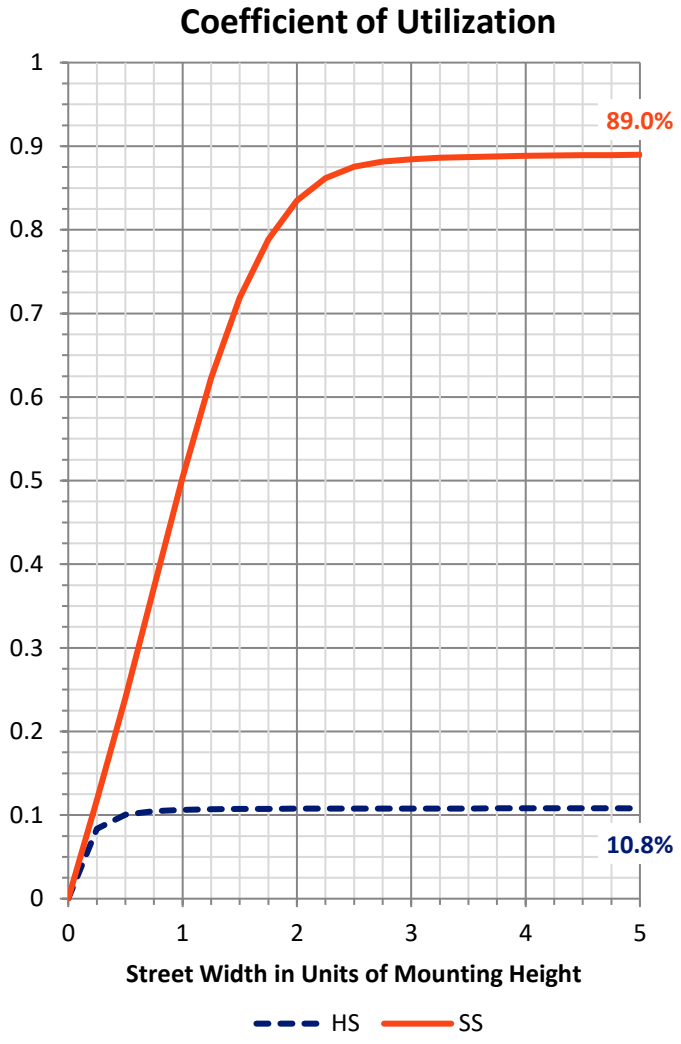
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.9	0.0	742.9
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	6066.6	0.0	6066.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	6809.5	0.0	6809.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.0
10°-20°	195.7	2.9
20°-30°	341.6	5.0
30°-40°	610.1	9.0
40°-50°	1115.1	16.4
50°-60°	1854.6	27.2
60°-70°	2014.4	29.6
70°-80°	591.4	8.7
80°-90°	16.8	0.2
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°	6809.5	100.0
0°-180°	6809.5	100.0



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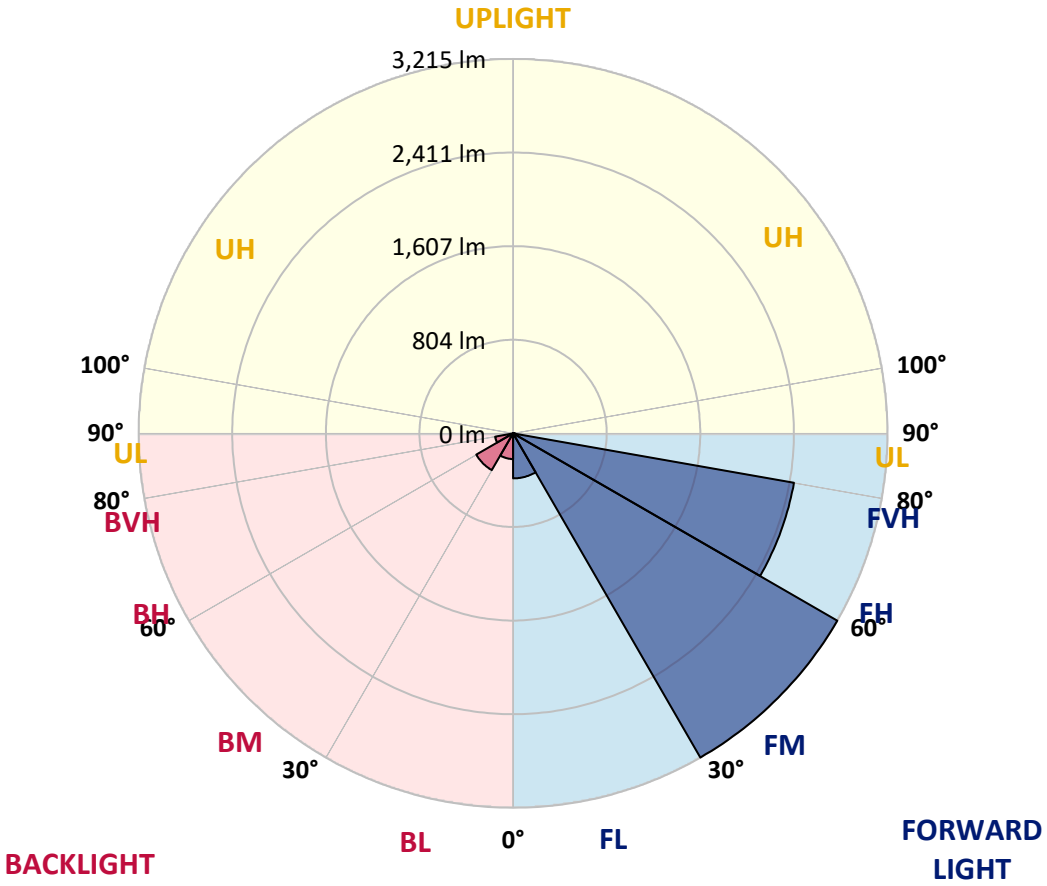
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	386.7	5.7			
FM	(30°-60°)	3214.9	47.2			
FH	(60°-80°)	2449.0	36.0			G2/5000
FVH	(80°-90°)	16.0	0.2			G1/100
BL	(0°-30°)	220.4	3.2	B1/500		
BM	(30°-60°)	364.9	5.4	B1/1000		
BH	(60°-80°)	156.8	2.3	B1/500		G1/500
BVH	(80°-90°)	0.8	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-G2
Type III Short



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REPORT NUMBER: P633053
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	728.1	726.7	726.7	732.1	732.7	735.4	741.4	742.0	745.4	744.0	739.4
5°	690.2	690.8	694.8	704.1	712.1	722.1	736.7	740.0	747.4	751.3	748.7
7.5°	654.9	655.6	661.6	676.2	691.5	711.4	735.4	742.0	756.7	767.3	768.0
10°	641.6	641.0	647.0	663.6	683.5	711.4	746.0	754.7	776.6	795.2	798.5
12.5°	645.6	645.0	650.9	666.2	688.2	723.4	764.6	776.6	804.5	833.1	839.1
15°	661.6	660.9	664.9	677.5	701.5	738.0	788.6	806.5	841.8	876.3	885.7
17.5°	709.5	706.1	702.1	703.5	717.4	755.3	819.2	841.1	885.0	926.2	934.2
20°	794.6	785.9	775.3	761.3	754.7	780.6	854.4	879.7	932.9	980.1	981.4
22.5°	922.9	919.6	895.0	854.4	825.8	826.5	895.6	924.9	990.0	1041.9	1034.6
25°	1101.7	1099.8	1061.9	995.4	920.9	895.6	948.2	978.1	1057.9	1113.0	1089.8
27.5°	1323.8	1309.9	1265.3	1175.5	1064.5	985.4	1014.6	1041.2	1129.7	1181.5	1137.6
30°	1517.3	1518.0	1476.1	1382.3	1257.3	1120.4	1095.8	1119.0	1195.5	1250.0	1196.8
32.5°	1703.5	1709.5	1663.6	1579.1	1442.2	1296.6	1212.1	1216.1	1279.9	1339.1	1274.6
35°	1876.4	1881.0	1849.1	1777.3	1649.6	1480.7	1374.4	1372.4	1406.9	1467.4	1383.0
37.5°	2069.8	2074.5	2043.2	1978.8	1859.1	1691.5	1558.5	1555.9	1569.8	1619.0	1522.6
40°	2276.0	2284.6	2250.0	2195.5	2081.1	1939.5	1772.6	1748.7	1734.7	1792.6	1703.5
42.5°	2484.7	2498.0	2486.1	2431.6	2333.8	2216.8	2050.6	2013.3	1983.4	2055.9	1961.5
45°	2744.1	2760.0	2754.7	2712.8	2637.0	2541.9	2385.0	2341.8	2327.8	2395.0	2282.6
47.5°	2993.4	3010.7	3030.0	3020.7	2966.8	2922.9	2748.7	2724.1	2720.1	2791.9	2617.7
50°	3178.9	3194.9	3268.7	3321.9	3358.4	3349.1	3198.2	3161.6	3155.6	3201.5	2971.5
52.5°	3311.9	3327.2	3428.9	3595.1	3729.4	3802.6	3650.3	3642.3	3609.8	3593.8	3302.6
55°	3414.9	3436.2	3543.3	3794.6	4065.2	4227.5	4132.4	4103.8	4020.0	3928.2	3609.8
57.5°	3435.6	3444.2	3595.1	3934.2	4325.9	4588.5	4588.5	4538.6	4377.1	4250.1	3964.8
60°	3250.7	3277.3	3481.4	3922.9	4437.6	4824.5	4966.8	4932.3	4714.2	4557.9	4306.6
62.5°	2840.5	2870.4	3119.1	3652.3	4325.9	4873.1	5253.4	5248.1	5002.1	4812.6	4589.8
65°	2178.2	2200.2	2416.9	3055.2	3853.8	4686.2	5458.2	5472.8	5229.5	4980.8	4687.6
67.5°	1094.4	1109.7	1343.8	2087.1	3054.6	4148.3	5444.2	5509.4	5298.6	4891.7	4314.6
70°	382.3	397.6	508.0	895.6	1859.1	3167.6	4973.5	5079.9	4892.4	4175.6	3182.9
72.5°	131.0	138.3	210.8	332.5	723.4	1877.7	3782.0	3942.2	3606.4	2803.2	1829.1
75°	74.5	79.1	113.0	180.2	303.2	617.7	2145.6	2244.0	2102.4	1527.9	752.7
77.5°	50.5	54.5	70.5	102.4	167.6	198.8	875.0	1101.7	960.8	498.7	192.2
80°	29.9	32.6	43.2	60.5	85.8	77.1	187.5	249.3	321.1	148.9	57.8
82.5°	14.0	16.0	27.9	39.9	43.2	32.6	55.2	67.2	90.4	73.1	23.9
85°	0.0	0.0	9.3	16.6	16.0	9.3	15.3	16.6	24.6	36.6	9.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	1.3	2.0	4.0	7.3	4.0
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: P633053
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	744.7	740.0	745.4	742.7	745.4	744.7	739.4	736.0	736.0	730.1	728.1
5°	754.0	749.3	750.7	744.7	743.4	740.0	733.4	730.7	730.7	724.7	722.7
7.5°	774.6	767.3	766.0	754.0	748.7	739.4	727.4	722.7	722.1	716.1	714.1
10°	807.2	798.5	792.6	777.3	762.0	743.4	718.1	696.8	684.9	668.9	667.6
12.5°	847.1	836.4	827.1	803.9	778.6	736.7	662.2	584.4	536.6	498.7	501.3
15°	891.6	881.7	867.0	831.8	779.9	670.9	515.3	395.6	337.1	305.9	304.5
17.5°	940.2	925.5	901.6	853.7	738.0	512.6	335.1	236.7	206.1	195.5	192.8
20°	985.4	967.4	937.5	858.4	617.0	347.1	209.4	183.5	178.2	174.9	174.9
22.5°	1033.3	1010.7	966.1	822.5	458.8	222.1	178.2	172.2	168.2	163.6	162.9
25°	1081.8	1052.5	992.0	728.7	300.5	174.9	166.9	160.2	152.9	145.6	143.6
27.5°	1123.0	1085.1	1012.0	589.1	192.8	157.6	152.3	141.0	131.0	123.0	121.7
30°	1172.2	1123.7	1020.6	430.9	151.6	139.0	131.0	119.0	107.0	99.1	96.4
32.5°	1238.0	1184.9	1007.3	280.6	134.3	122.3	109.7	95.7	83.8	75.1	73.8
35°	1340.4	1277.3	946.2	178.9	121.7	105.7	90.4	75.8	65.8	59.2	57.8
37.5°	1465.4	1406.9	845.8	134.3	109.0	91.8	73.8	59.8	52.5	47.9	46.5
40°	1651.0	1569.2	721.4	117.7	96.4	77.8	60.5	49.2	43.9	39.9	38.6
42.5°	1891.6	1760.7	578.5	107.0	84.4	65.2	49.2	40.6	35.9	33.2	32.6
45°	2172.9	1947.5	427.5	96.4	73.1	53.9	40.6	33.2	29.9	27.9	27.3
47.5°	2460.8	2111.1	295.2	85.1	62.5	44.5	33.9	28.6	25.9	23.3	22.6
50°	2768.0	2249.4	201.5	73.8	53.2	36.6	29.3	25.9	22.6	20.6	19.9
52.5°	2993.4	2300.6	140.3	63.8	45.2	31.3	25.9	23.3	20.6	18.0	17.3
55°	3201.5	2299.2	106.4	53.9	38.6	27.3	23.3	20.6	18.0	16.0	15.3
57.5°	3409.0	2281.3	83.8	45.9	33.2	24.6	20.6	18.0	16.6	14.0	13.3
60°	3543.3	2213.5	65.2	38.6	28.6	21.3	18.0	16.0	14.0	12.0	11.3
62.5°	3614.4	2119.0	49.9	30.6	23.3	18.6	16.0	14.0	12.0	10.0	9.3
65°	3518.0	1951.5	39.2	23.9	18.0	16.0	13.3	11.3	9.3	7.3	6.6
67.5°	*3090.5*	*1645.6*	*30.6*	*19.3*	*14.0*	*12.0*	*11.3*	*9.3*	*6.6*	*5.3*	*4.7*
70°	2184.2	1127.0	23.9	14.6	10.6	9.3	8.6	7.3	5.3	4.0	3.3
72.5°	1198.8	568.5	17.3	10.6	8.0	7.3	6.6	6.0	4.7	3.3	3.3
75°	461.4	156.3	12.6	7.3	5.3	5.3	4.7	4.7	4.0	2.7	2.7
77.5°	120.3	46.5	8.0	4.7	3.3	3.3	3.3	2.7	2.7	2.0	2.0
80°	38.6	15.3	4.7	3.3	2.7	2.0	2.0	1.3	2.0	1.3	1.3
82.5°	12.6	5.3	2.7	2.7	2.0	1.3	1.3	0.7	0.7	0.0	0.0
85°	4.7	2.7	2.0	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0
87.5°	2.7	1.3	1.3	1.3	1.3	0.7	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

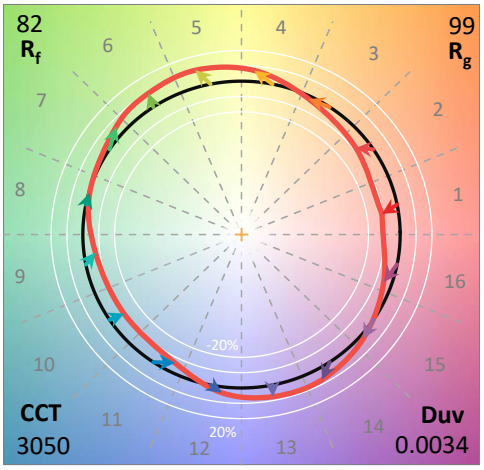
Test Information

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

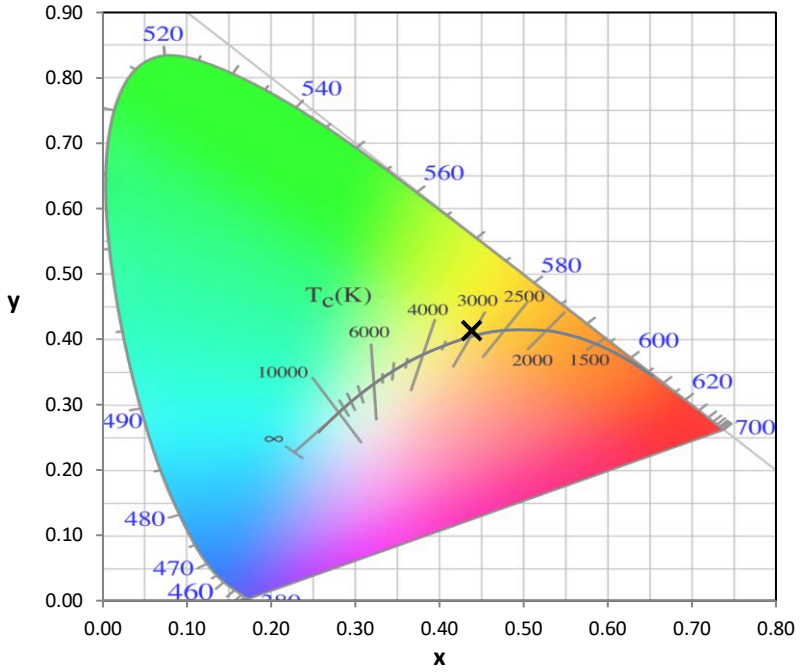
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

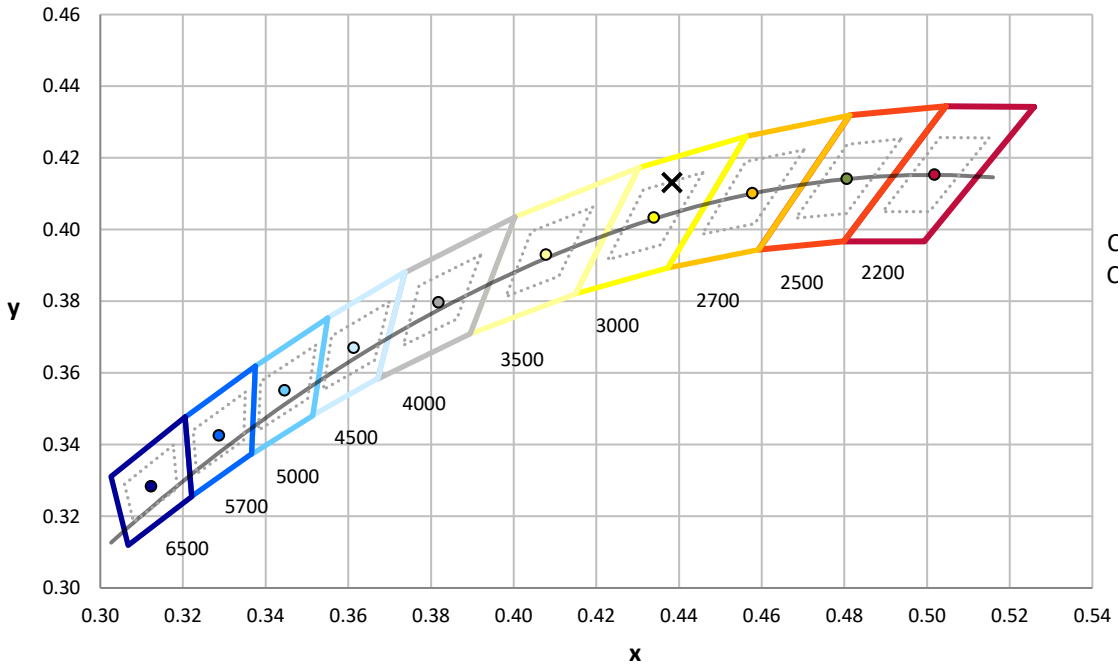
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

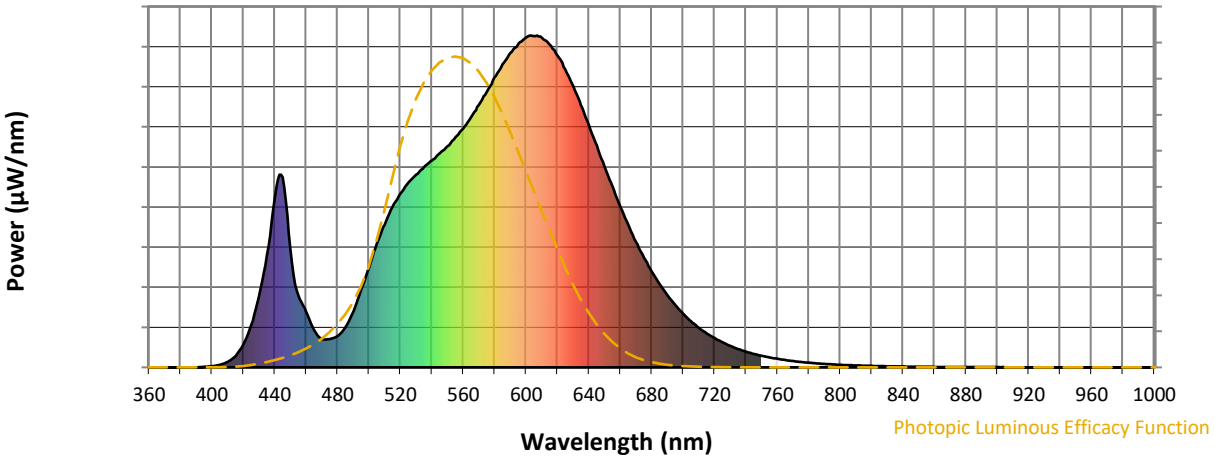


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

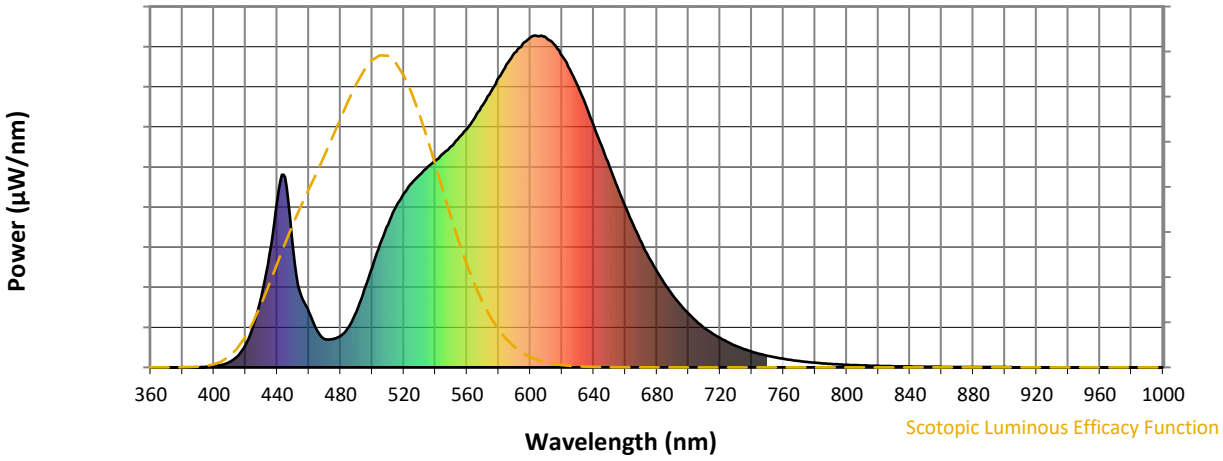


Photopic Lumens: NR

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

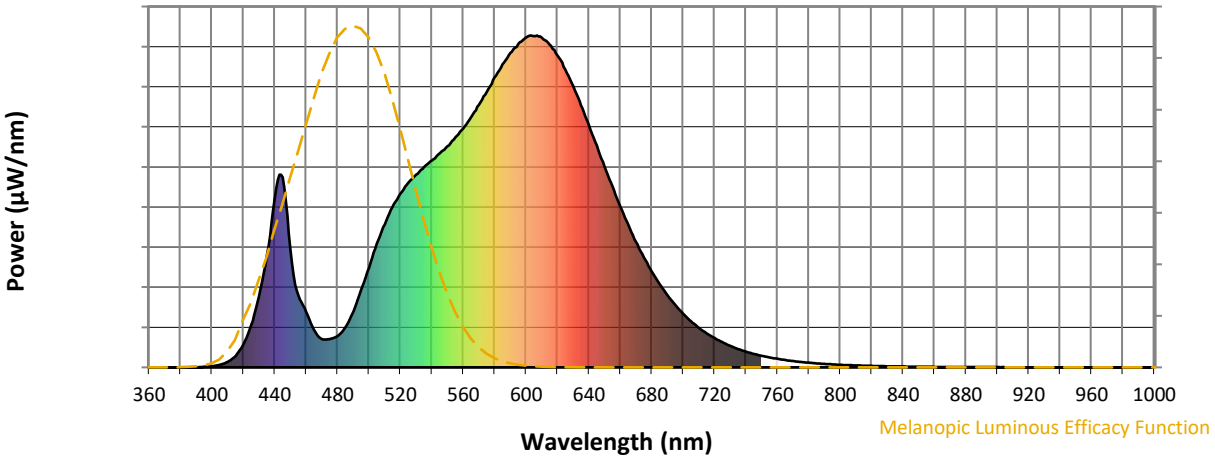


Scotopic Lumens: NR **S/P: 1.27**

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			

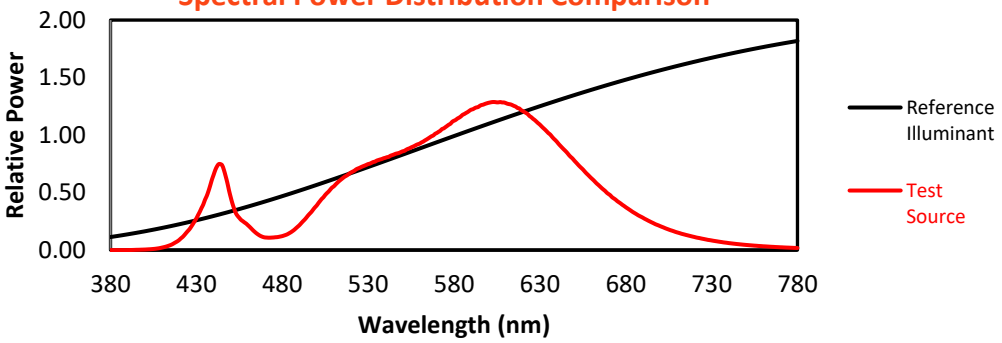
REPORT NUMBER: SP1-2408-195-9

TM-30-18

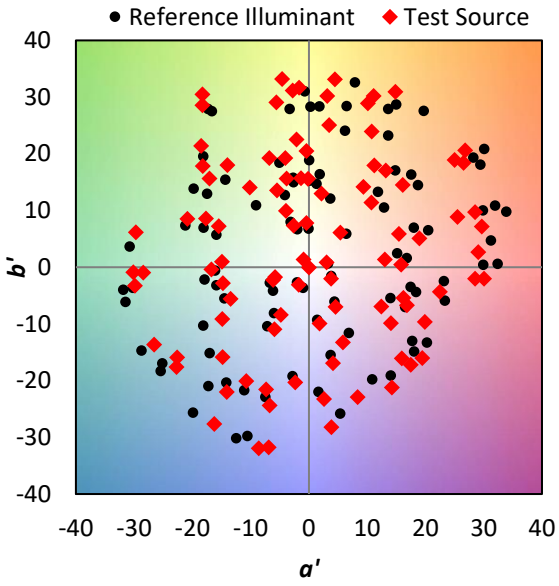
Summary

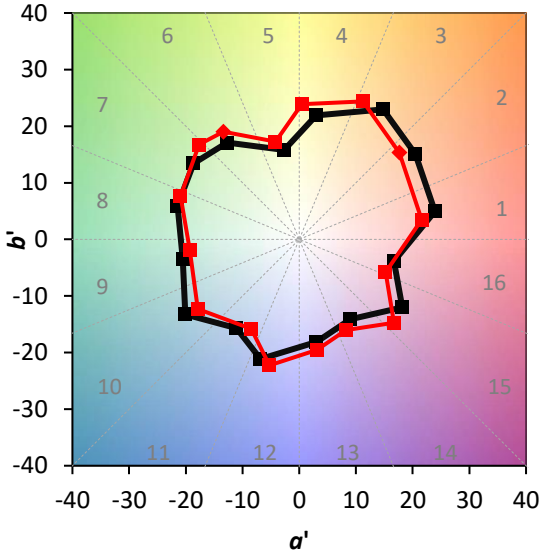
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

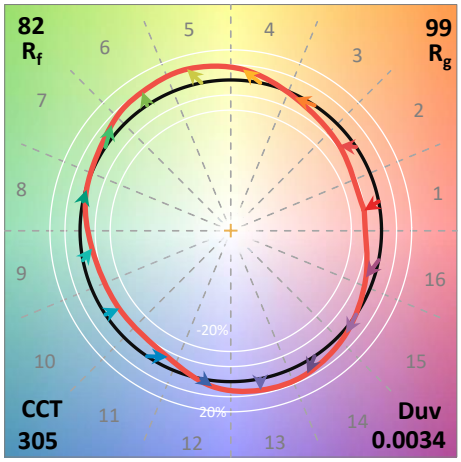
Spectral Power Distribution Comparison

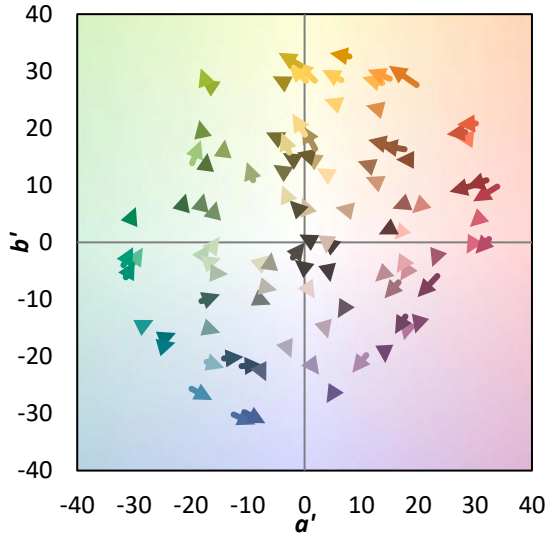


Color Vector Graphics







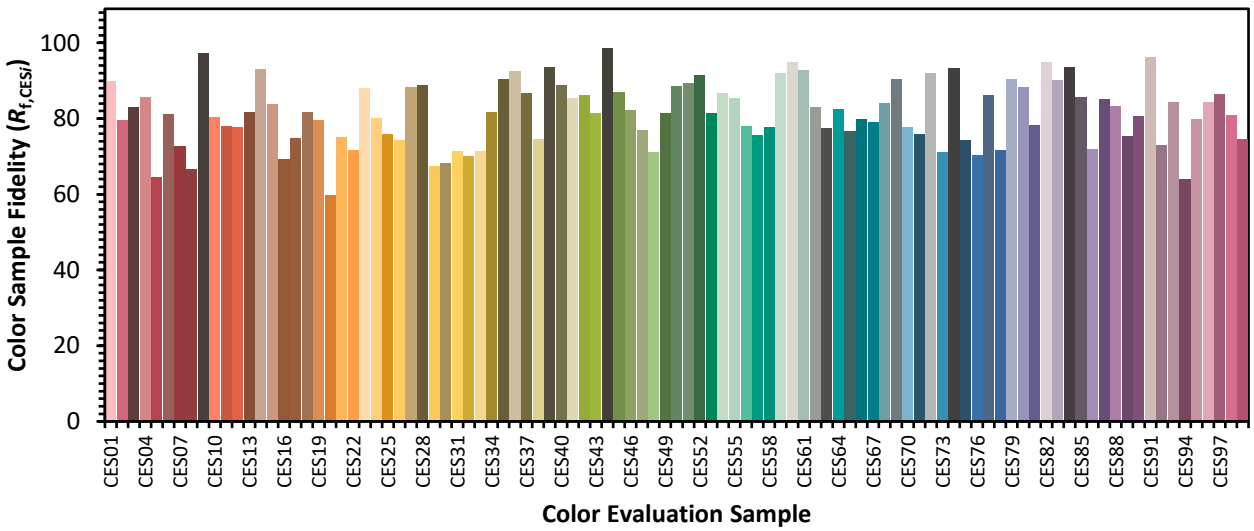


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

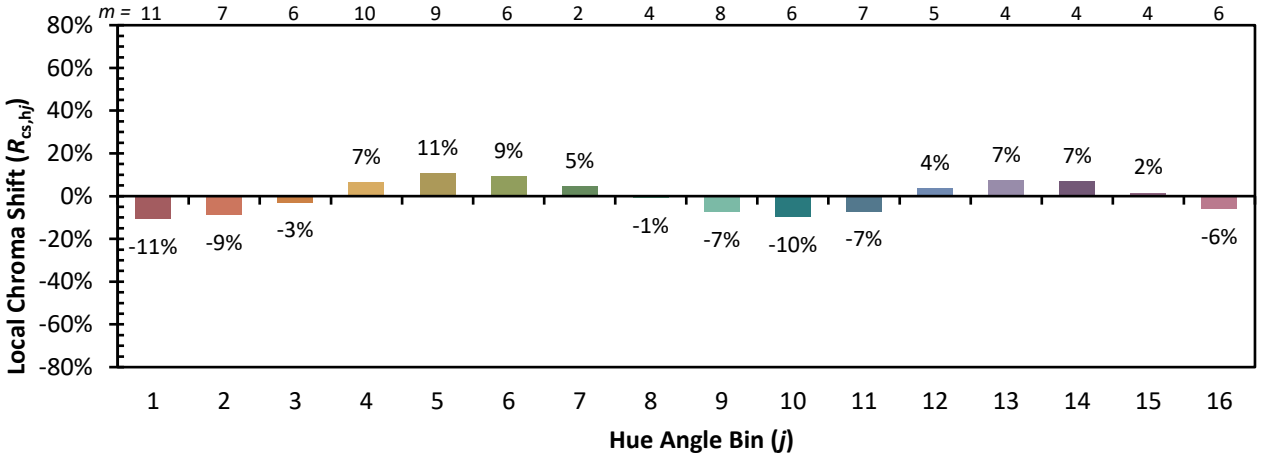
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

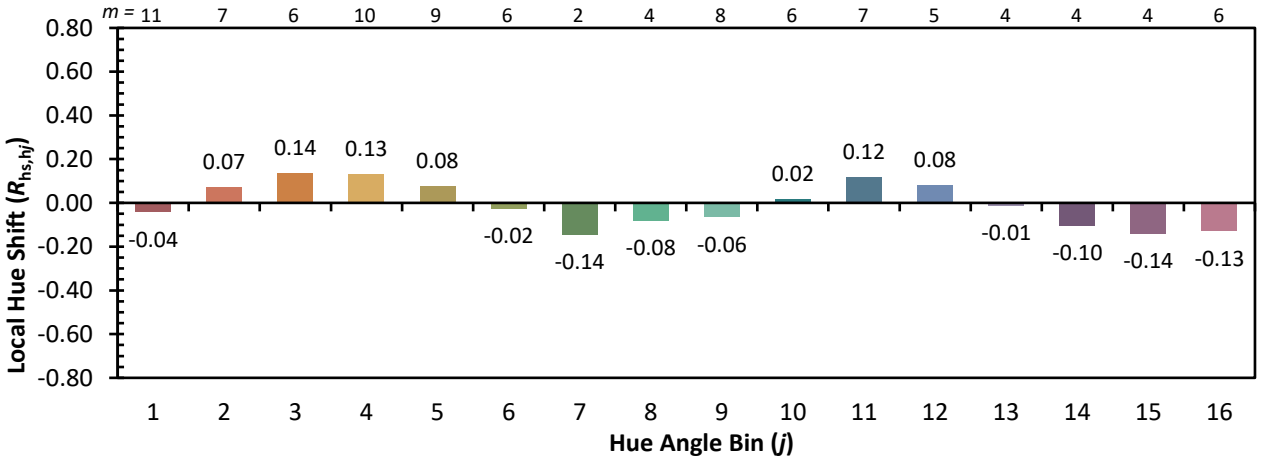


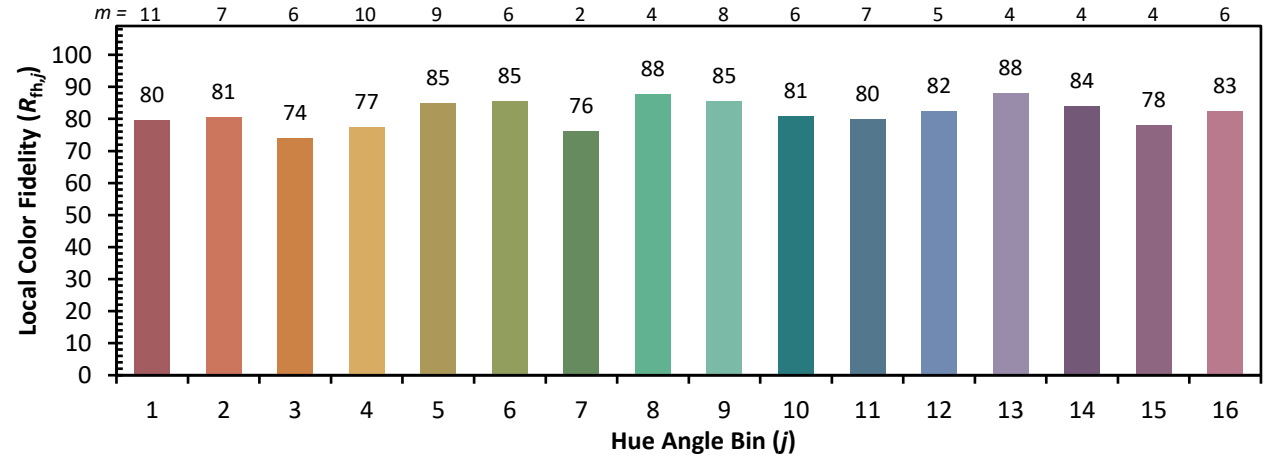
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



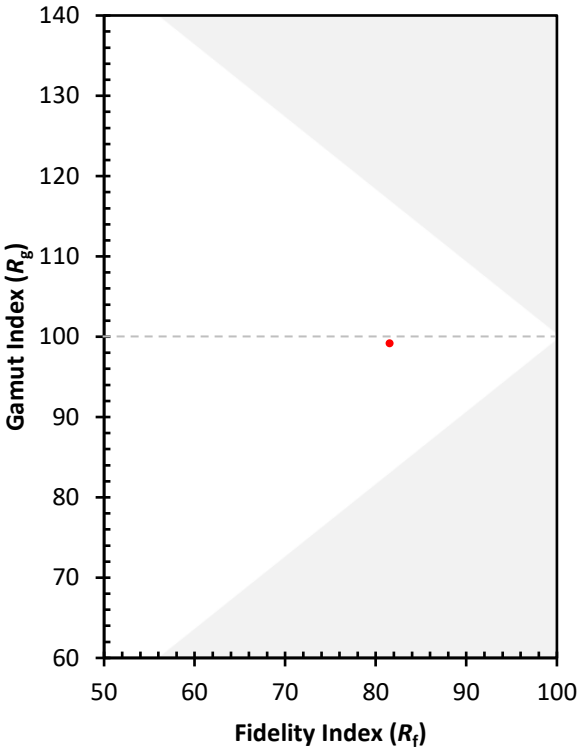


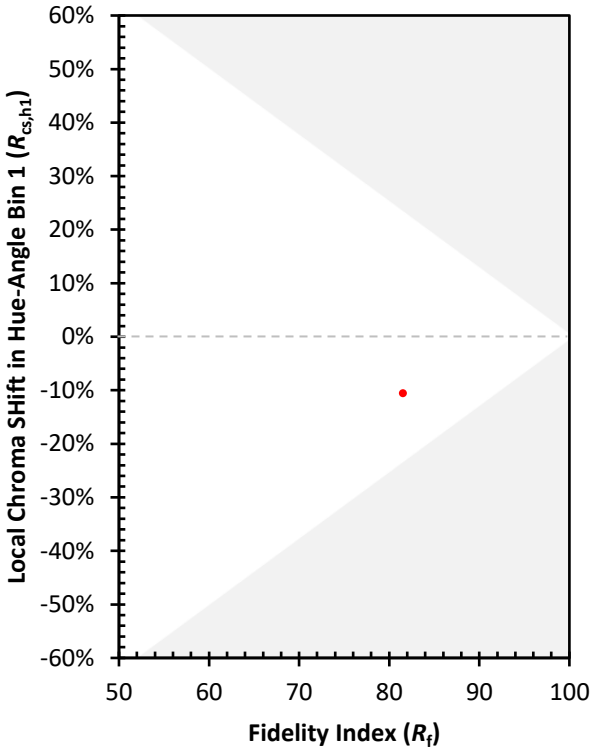


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)