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: P629570

Luminaire Tested: GWS-SA1B-830-U-SL4-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:	P629570
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2734.3 lumens
Efficiency:	N/A
Efficacy:	109.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U0 - G1

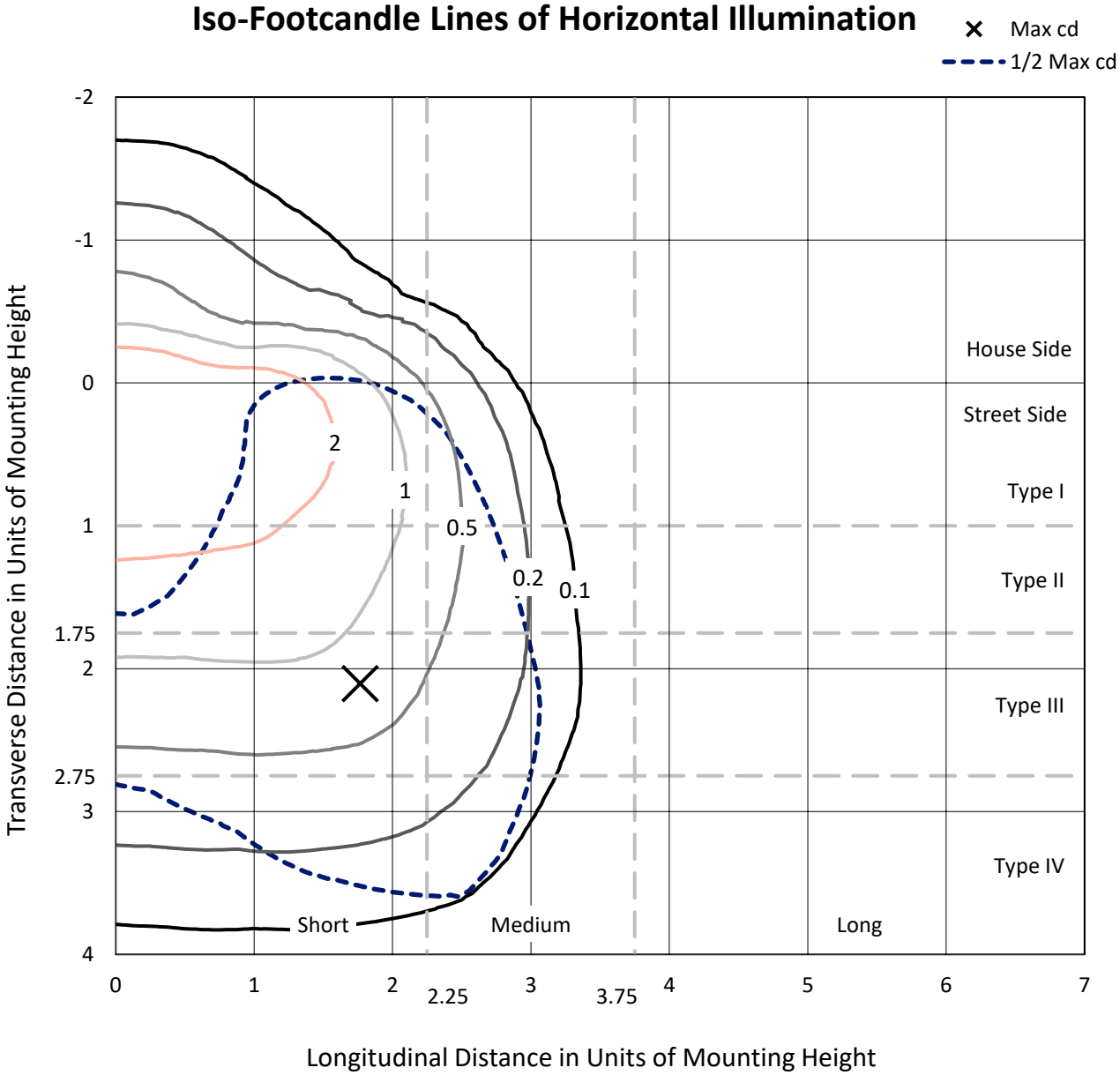
Input Watts (W):	25
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P629570
CATALOG NUMBER: GWS-SA1B-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



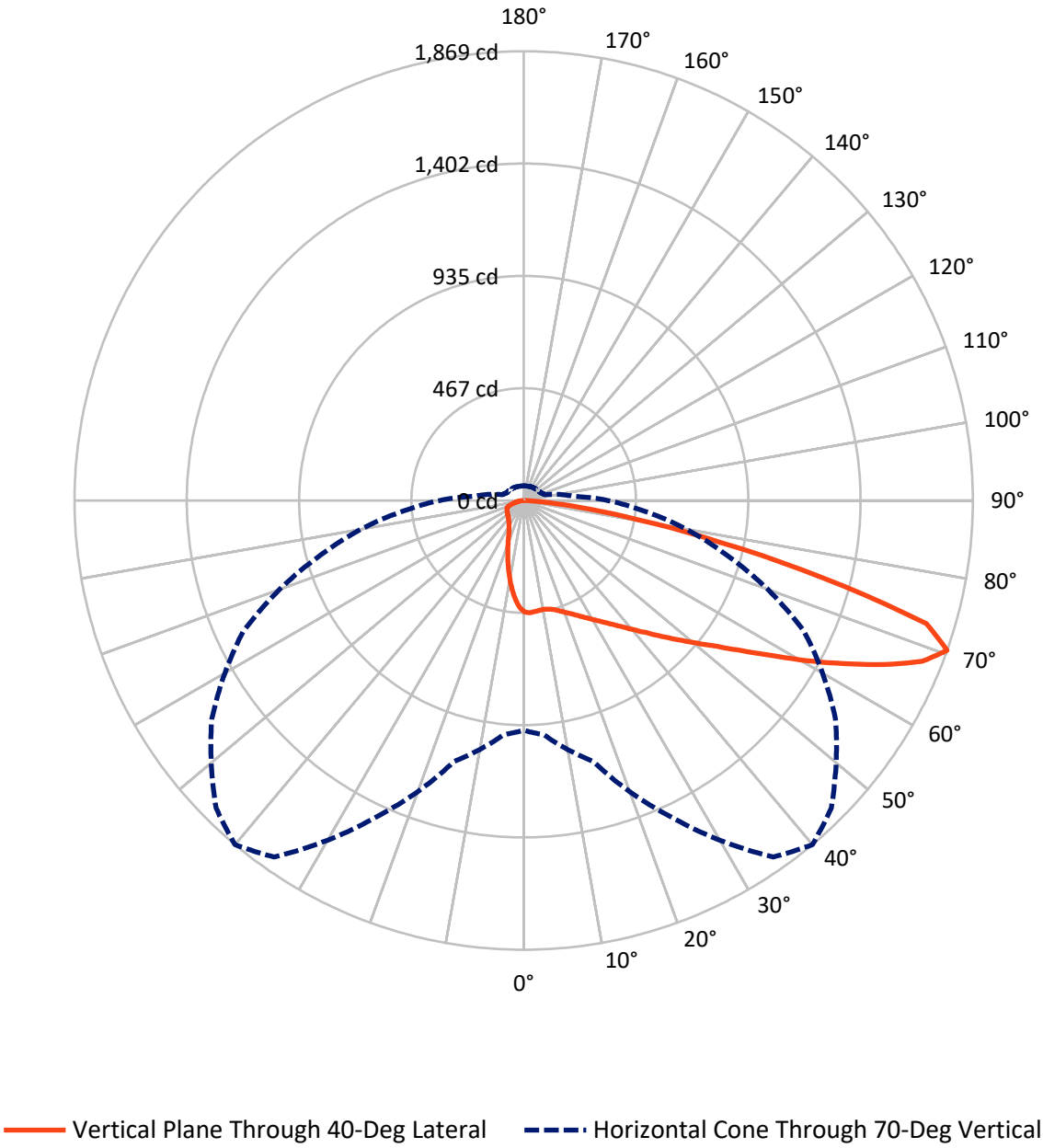
Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P629570
CATALOG NUMBER: GWS-SA1B-830-U-SL4-W

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

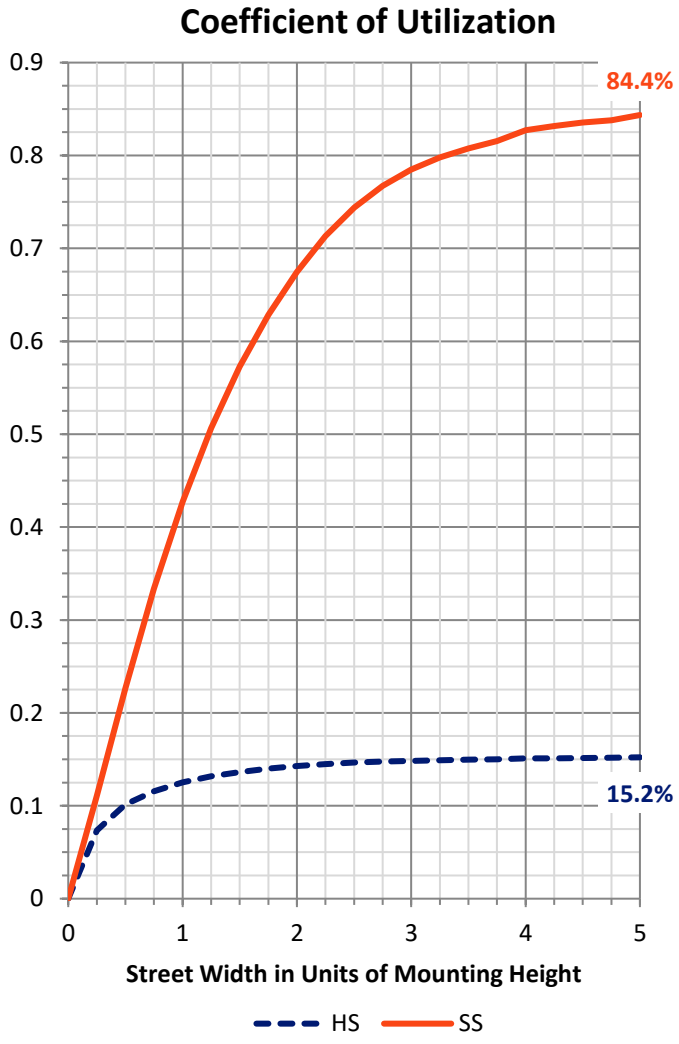
REPORT NUMBER: P629570
CATALOG NUMBER: GWS-SA1B-830-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	421.1	0.0	421.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	2313.1	0.0	2313.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	2734.3	0.0	2734.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.5
10°-20°	106.9	3.9
20°-30°	167.9	6.1
30°-40°	252.4	9.2
40°-50°	389.6	14.2
50°-60°	578.6	21.2
60°-70°	729.3	26.7
70°-80°	421.8	15.4
80°-90°	46.8	1.7
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°	2734.3	100.0
0°-180°	2734.3	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

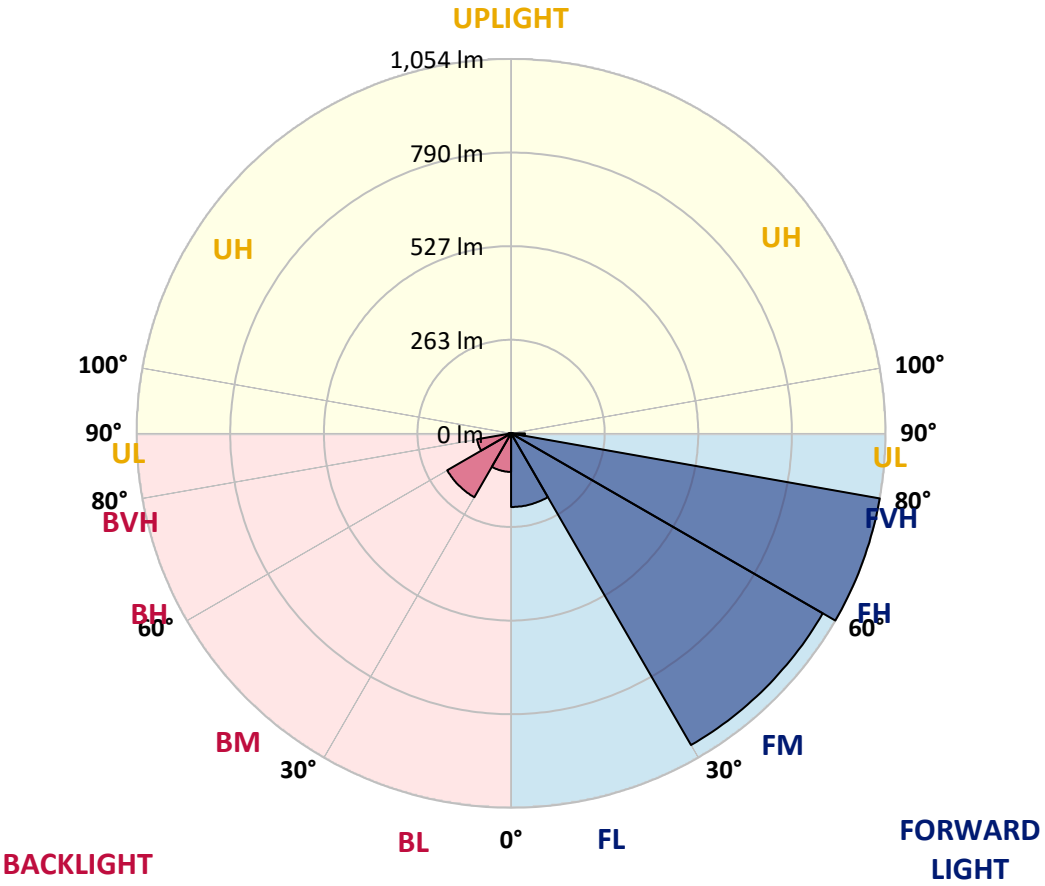
Scaled Data Report

REPORT NUMBER: P629570
CATALOG NUMBER: GWS-SA1B-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	207.3	7.6			
FM	(30°-60°)	1013.0	37.0			
FH	(60°-80°)	1053.9	38.5			G1/1800
FVH	(80°-90°)	39.0	1.4			G1/100
BL	(0°-30°)	108.5	4.0	B0/110		
BM	(30°-60°)	207.6	7.6	B0/220		
BH	(60°-80°)	97.2	3.6	B0/110		G0/110
BVH	(80°-90°)	7.8	0.3			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 IV Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P629570
CATALOG NUMBER: GWS-SA1B-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3
2.5°	467.2	468.0	468.6	469.4	469.0	467.8	468.8	468.8	466.6	464.1	461.9
5°	467.8	468.8	468.6	468.4	466.8	464.7	464.7	463.5	459.6	455.7	452.1
7.5°	466.6	466.4	466.2	465.5	463.7	461.5	461.0	458.6	453.5	448.2	442.9
10°	461.0	460.8	461.5	462.9	462.5	460.4	460.4	458.2	452.3	445.7	438.8
12.5°	456.6	456.6	459.0	462.9	464.3	463.5	463.7	462.1	455.3	447.6	439.4
15°	457.2	457.4	462.7	469.0	471.7	471.1	471.3	469.4	461.9	454.1	443.1
17.5°	461.3	462.3	471.5	480.2	483.7	482.9	481.5	478.4	469.8	461.0	447.6
20°	469.8	471.5	483.3	494.3	498.4	496.6	494.1	488.0	478.6	469.0	452.5
22.5°	486.8	487.8	500.8	511.7	514.9	512.7	507.8	499.0	488.2	478.2	458.4
25°	510.6	511.9	524.3	534.3	533.5	530.9	524.1	513.3	500.4	489.8	467.0
27.5°	539.0	541.1	553.3	561.3	556.0	552.1	544.5	531.5	517.0	507.4	480.0
30°	570.0	570.9	581.3	589.2	581.1	575.8	566.6	552.5	539.4	532.3	499.6
32.5°	600.0	600.9	609.8	614.3	605.8	601.9	593.9	579.0	569.8	566.0	528.8
35°	631.7	631.5	638.8	642.7	633.9	632.3	624.1	612.7	611.1	616.2	571.5
37.5°	663.3	661.5	665.3	670.5	665.6	667.2	661.9	658.0	664.3	677.6	628.2
40°	688.6	688.6	692.7	699.0	700.7	707.8	704.7	709.8	730.3	761.9	698.4
42.5°	711.1	711.3	719.8	729.6	741.5	752.5	754.9	768.2	810.5	860.1	786.6
45°	734.5	734.7	746.4	760.7	785.8	806.8	811.7	841.5	901.9	962.3	882.3
47.5°	761.7	759.4	775.6	799.4	835.2	865.4	878.0	920.3	996.6	1070.9	972.5
50°	792.3	787.6	805.6	846.8	890.9	932.3	953.5	1001.9	1098.2	1171.1	1057.4
52.5°	826.8	824.1	842.9	893.1	960.5	1008.2	1037.0	1100.5	1197.0	1270.9	1124.8
55°	869.6	863.3	890.5	954.3	1042.1	1102.9	1137.0	1198.0	1305.0	1361.5	1176.2
57.5°	916.6	909.7	946.0	1030.9	1148.2	1215.0	1257.6	1307.8	1406.6	1430.9	1206.4
60°	967.2	965.0	1008.0	1120.7	1274.8	1352.3	1383.1	1428.7	1495.0	1471.1	1198.9
62.5°	1013.5	1012.7	1075.4	1218.0	1408.9	1494.2	1518.7	1530.7	1558.7	1468.5	1138.8
65°	1062.3	1069.3	1154.0	1330.9	1562.5	1646.2	1656.4	1625.8	1580.1	1398.9	1016.0
67.5°	1068.4	1081.9	1203.3	1436.6	1708.3	1787.3	1779.1	1661.9	1516.8	1205.2	796.4
70°	955.6	979.0	1124.6	1452.7	1810.9	1869.1	1810.1	1584.2	1287.2	873.1	500.8
72.5°	798.4	818.6	947.2	1238.9	1678.5	1752.6	1672.8	1340.9	909.7	500.8	255.1
75°	621.5	644.9	763.5	984.8	1256.6	1286.2	1246.2	935.2	500.0	206.5	115.9
77.5°	379.2	396.1	488.4	667.2	879.2	835.0	707.6	524.3	219.4	99.0	71.6
80°	167.8	178.2	240.6	358.4	508.0	480.2	378.6	223.9	120.0	62.9	50.0
82.5°	90.0	96.7	118.6	141.8	223.1	233.3	189.2	129.0	64.5	35.9	28.6
85°	39.6	43.5	53.9	51.4	73.3	72.0	72.7	88.6	30.8	16.5	18.6
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	2.2	11.8	3.1	4.9	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P629570
CATALOG NUMBER: GWS-SA1B-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3	464.3
2.5°	459.4	455.7	454.7	453.5	451.3	447.4	444.5	441.3	439.8	438.2	438.4
5°	448.0	443.5	439.2	433.7	426.8	419.0	413.7	407.6	404.3	401.3	402.1
7.5°	438.2	431.3	422.5	410.8	398.4	384.5	373.3	364.5	358.6	354.5	356.6
10°	432.1	423.9	408.6	389.6	368.6	347.4	331.2	316.1	306.8	299.4	299.0
12.5°	430.8	420.2	398.0	370.4	340.0	311.7	288.0	267.6	255.1	245.9	249.4
15°	432.1	418.6	388.8	352.7	314.3	275.9	246.5	223.1	208.2	199.8	199.2
17.5°	433.5	417.0	378.4	333.5	287.4	243.5	209.4	184.5	169.2	160.8	161.0
20°	434.7	414.5	366.1	312.5	260.0	213.3	178.0	154.3	140.6	134.5	135.5
22.5°	436.8	412.1	353.1	290.0	232.1	184.1	153.1	133.9	125.7	121.6	121.8
25°	440.6	410.6	339.6	265.5	204.5	160.8	135.9	123.1	118.0	115.5	115.3
27.5°	448.6	411.9	325.5	241.9	179.6	143.1	124.9	116.5	113.1	111.4	111.2
30°	461.9	416.8	313.3	217.8	158.2	129.2	117.4	112.3	110.2	108.8	108.6
32.5°	482.1	425.9	300.0	195.3	140.8	119.0	111.4	108.8	107.4	106.5	106.5
35°	512.7	442.7	287.0	175.7	127.4	111.0	106.7	105.7	104.5	104.1	104.5
37.5°	556.8	469.4	275.1	158.6	117.8	104.9	101.6	102.0	101.0	101.6	102.3
40°	612.7	505.1	265.1	144.5	110.6	100.4	97.1	98.6	98.0	98.6	99.6
42.5°	683.5	549.4	257.6	133.5	105.5	96.7	93.7	95.1	94.7	95.5	96.5
45°	762.5	607.8	254.1	125.7	101.8	94.1	90.8	91.8	91.4	92.0	93.1
47.5°	838.2	660.9	257.2	121.2	98.8	91.8	88.4	88.8	88.6	88.4	89.0
50°	903.5	703.1	265.9	119.8	96.7	89.6	86.3	86.5	85.9	84.7	85.1
52.5°	956.8	737.0	271.2	119.8	95.7	87.1	84.1	84.3	83.1	81.4	81.6
55°	991.9	750.7	267.0	119.6	95.3	85.1	81.8	82.0	80.8	78.8	79.0
57.5°	1001.9	737.4	249.0	117.4	94.9	83.5	79.6	80.0	79.2	76.9	76.9
60°	973.9	688.8	216.1	112.3	93.9	82.5	78.0	78.6	78.2	75.9	75.9
62.5°	900.7	602.5	177.0	104.5	91.0	81.2	76.5	77.8	78.8	77.6	77.4
65°	763.5	482.7	143.9	95.9	87.4	79.2	74.5	77.6	79.8	81.4	81.4
67.5°	572.9	345.5	117.4	86.9	81.8	75.1	71.8	74.7	76.3	77.4	78.0
70°	*349.2*	*203.3*	*92.5*	*76.5*	*73.9*	*69.0*	*66.5*	*63.7*	*61.4*	*61.0*	*61.2*
72.5°	170.8	116.3	75.1	65.1	63.1	58.6	53.1	51.8	50.8	50.2	50.0
75°	94.1	81.0	62.0	54.1	50.4	44.9	43.7	41.6	41.2	40.4	40.6
77.5°	66.5	63.9	51.2	43.9	38.4	35.5	36.1	34.7	34.7	34.1	33.9
80°	50.0	50.2	39.4	32.0	28.4	27.3	28.0	28.0	27.6	27.3	27.1
82.5°	31.6	35.7	26.5	20.6	20.2	20.4	20.2	20.0	20.4	19.8	19.6
85°	21.8	25.7	16.1	12.2	12.2	12.0	12.4	12.2	12.7	12.0	12.0
87.5°	4.9	11.4	5.9	3.7	3.9	3.7	3.9	4.1	4.5	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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

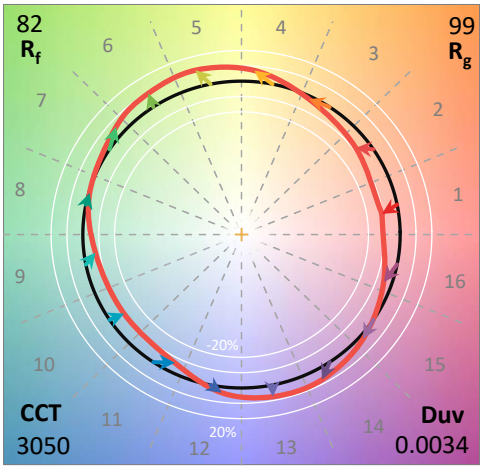
Test Information

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

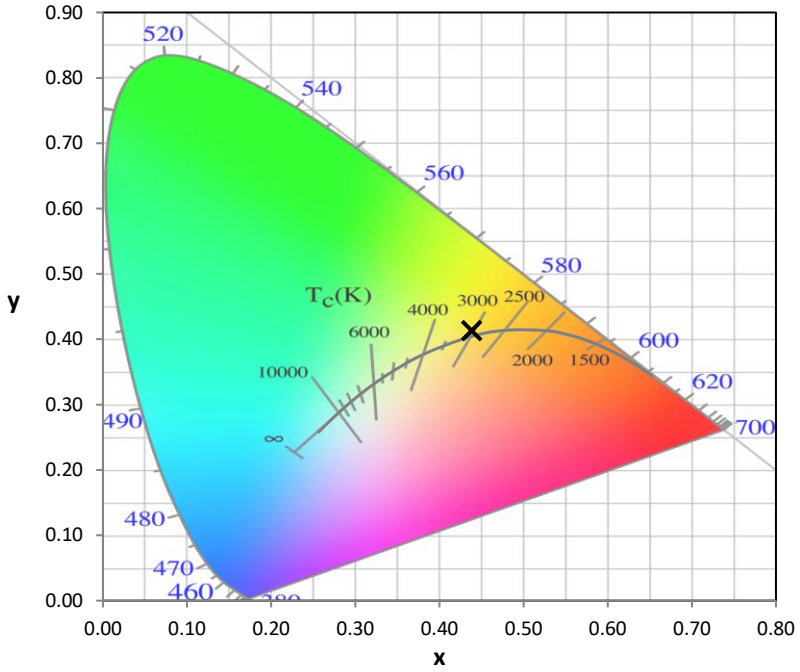
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

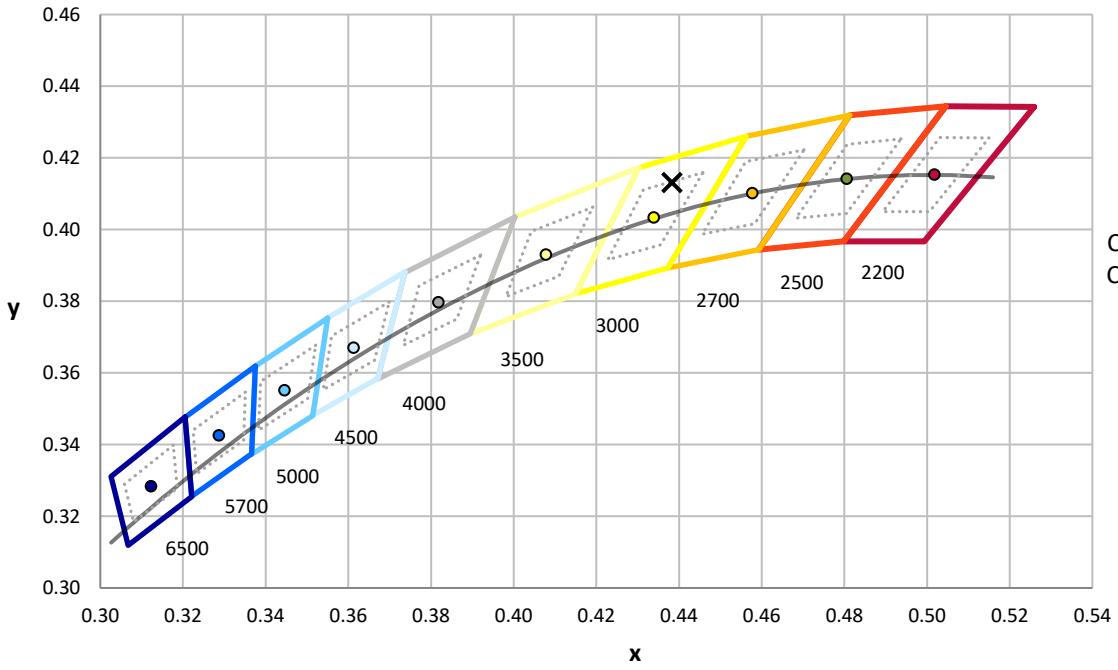
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

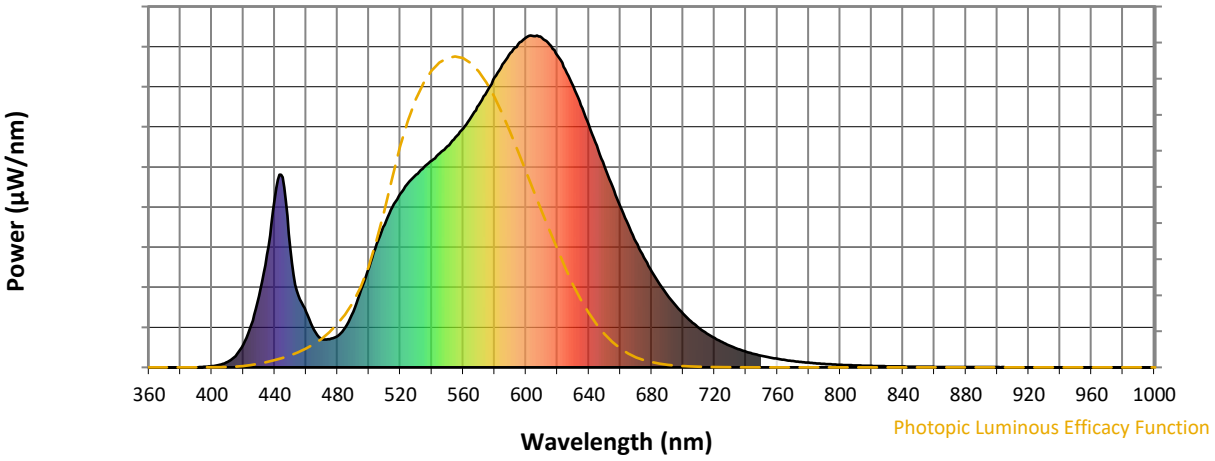


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

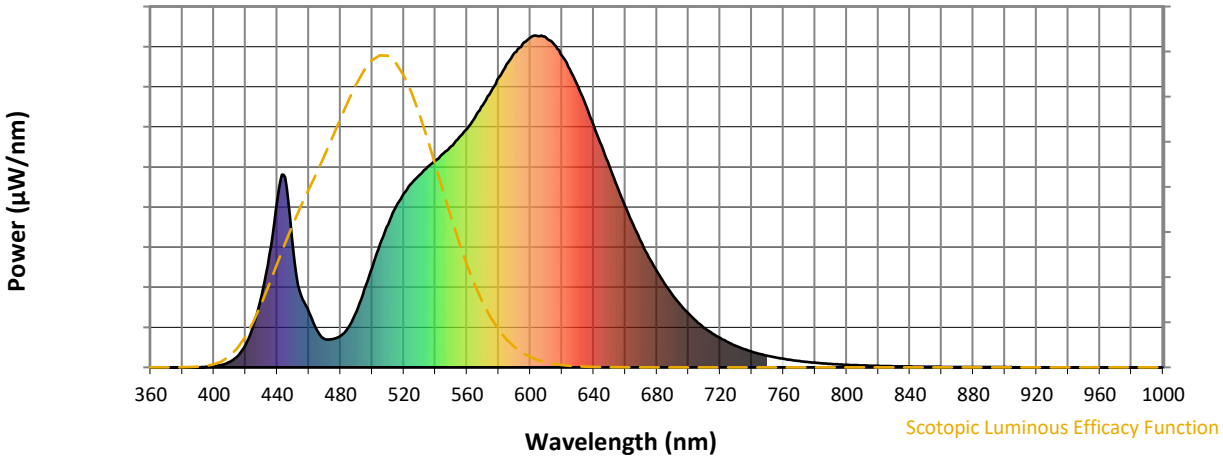


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

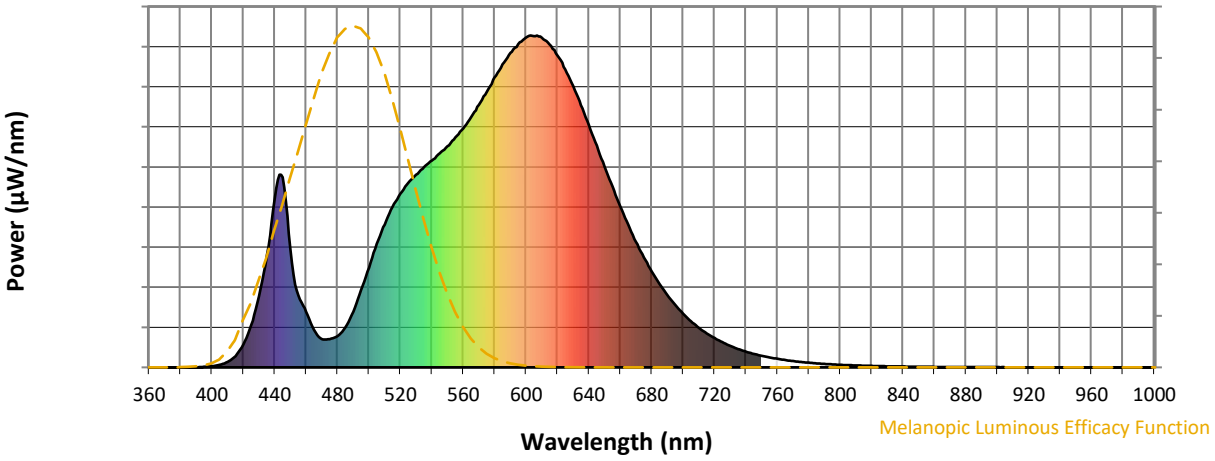


Scotopic Lumens: NR **S/P: 1.27**

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			

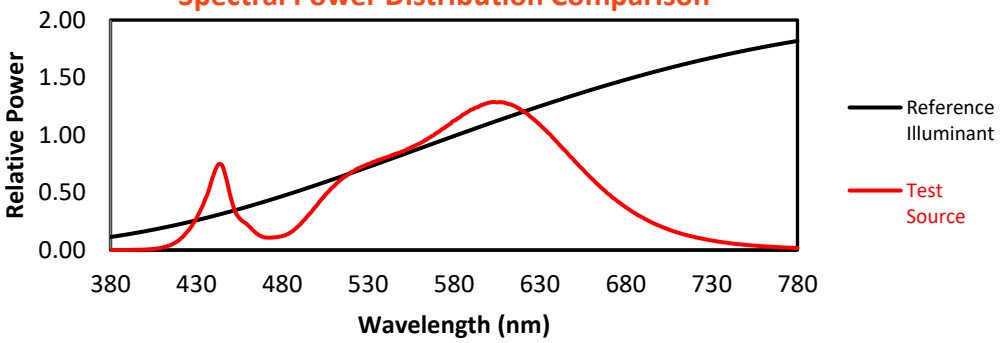
REPORT NUMBER: SP1-2408-195-9

TM-30-18

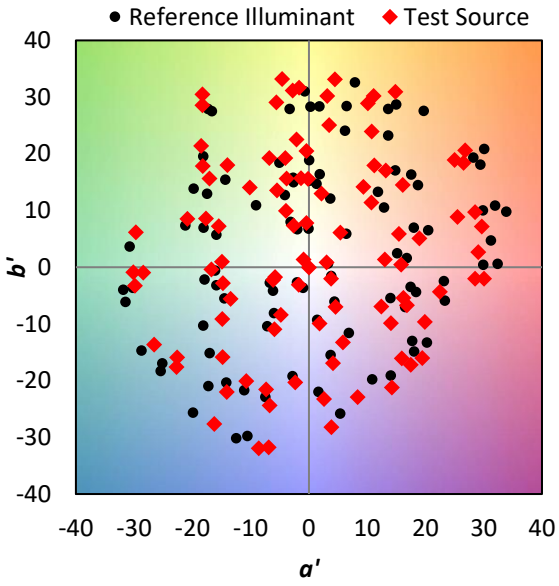
Summary

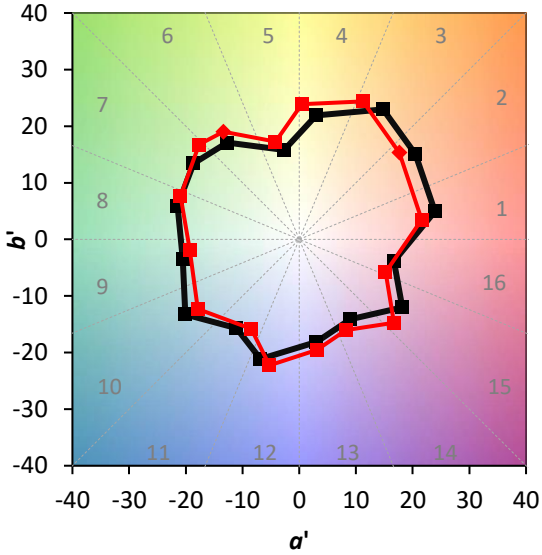
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

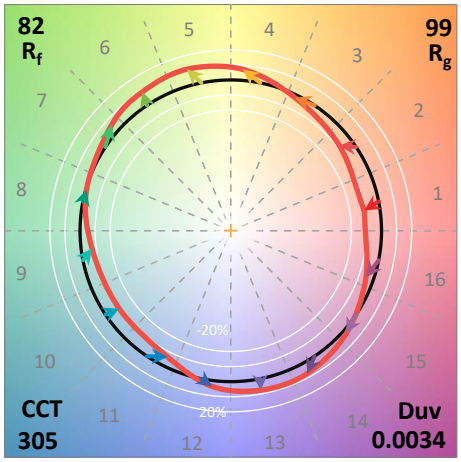
Spectral Power Distribution Comparison

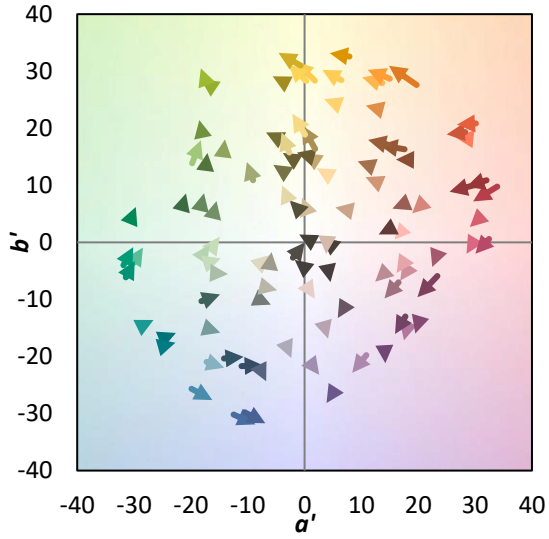


Color Vector Graphics







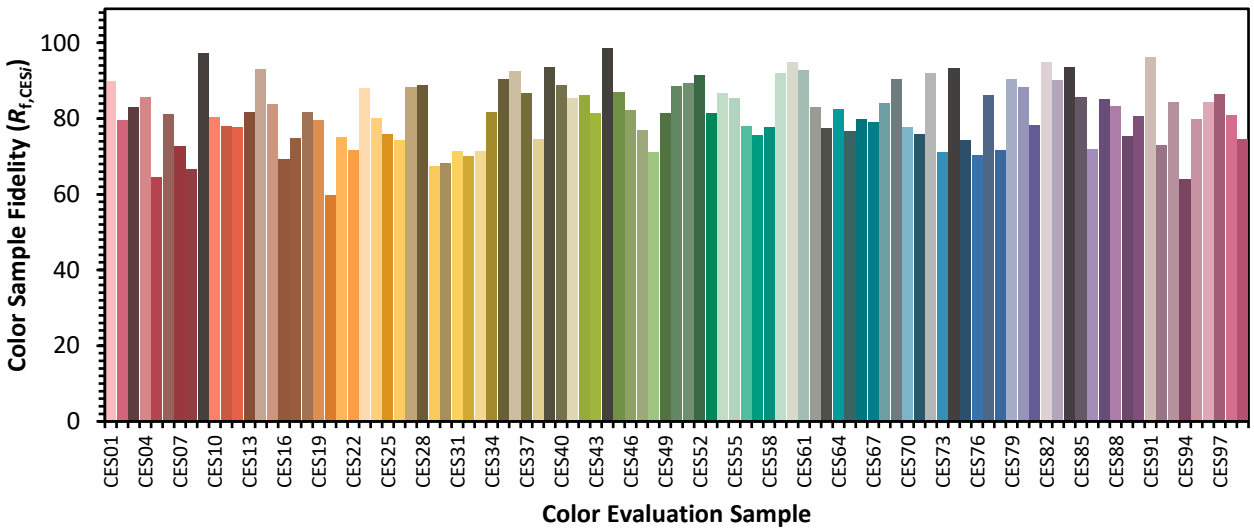


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

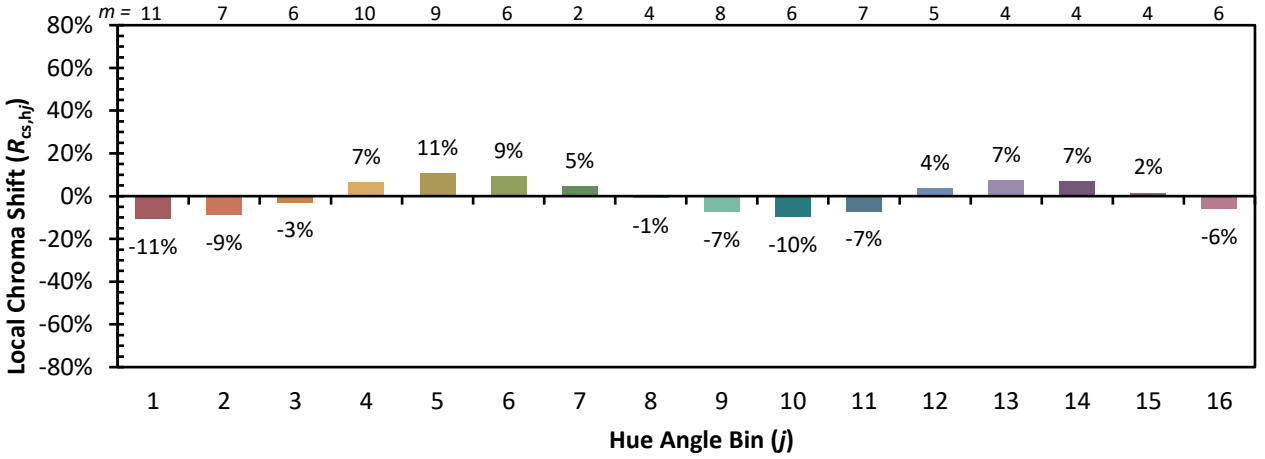
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

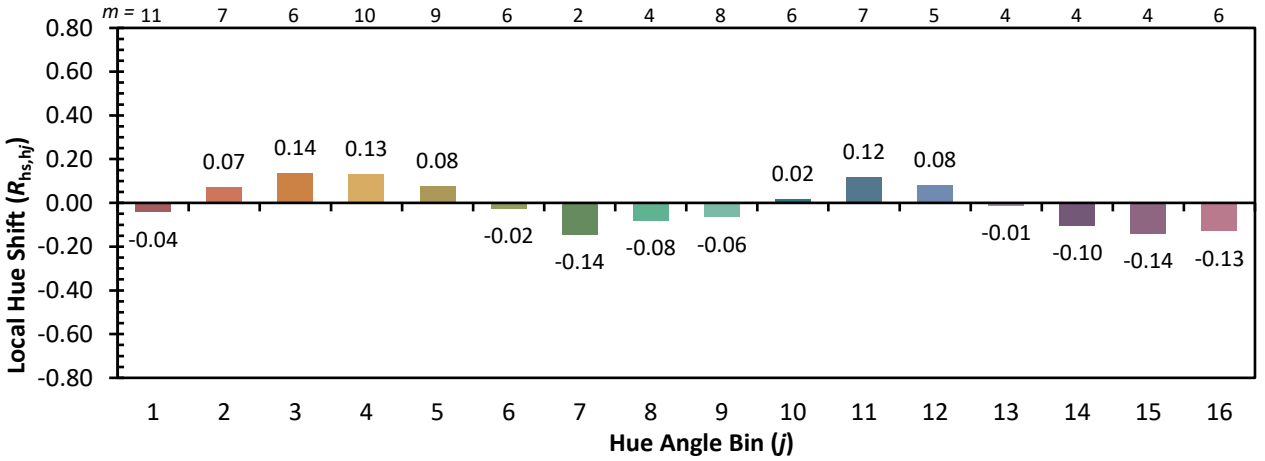


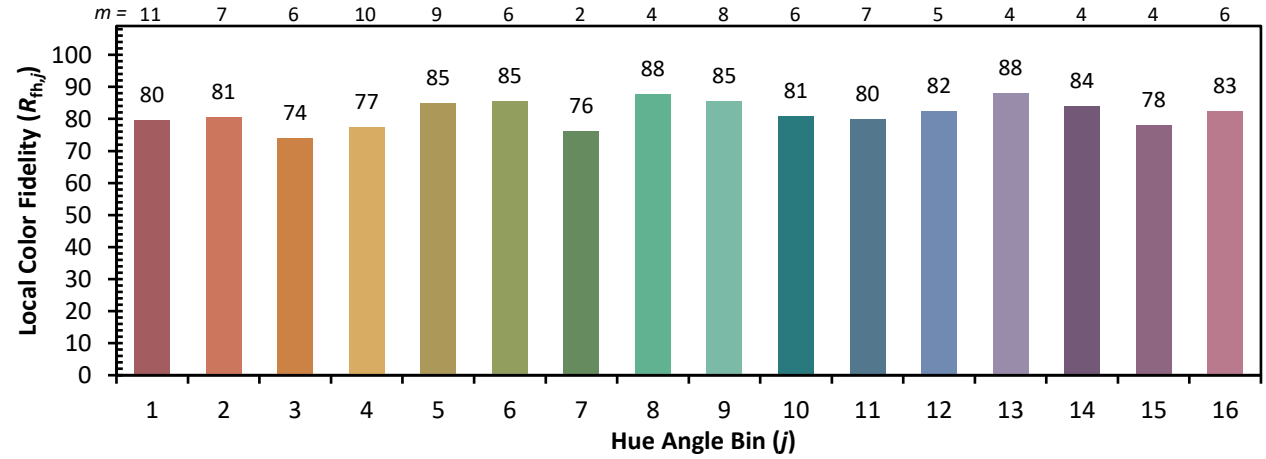
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



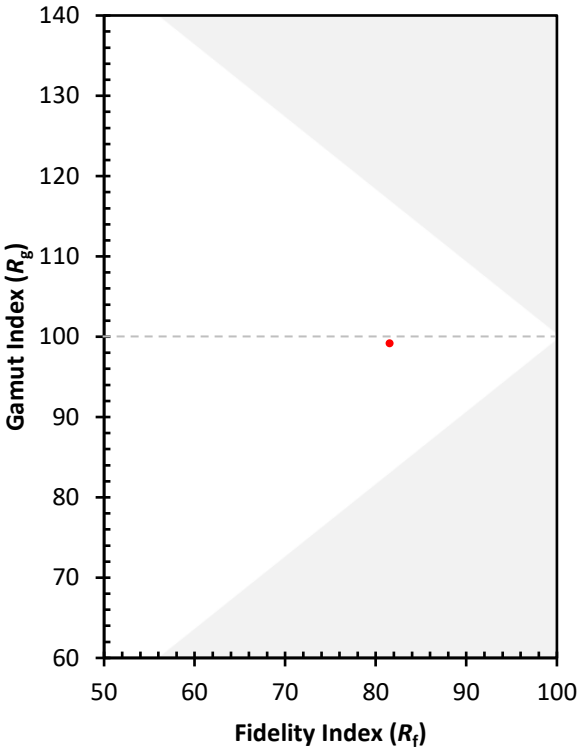


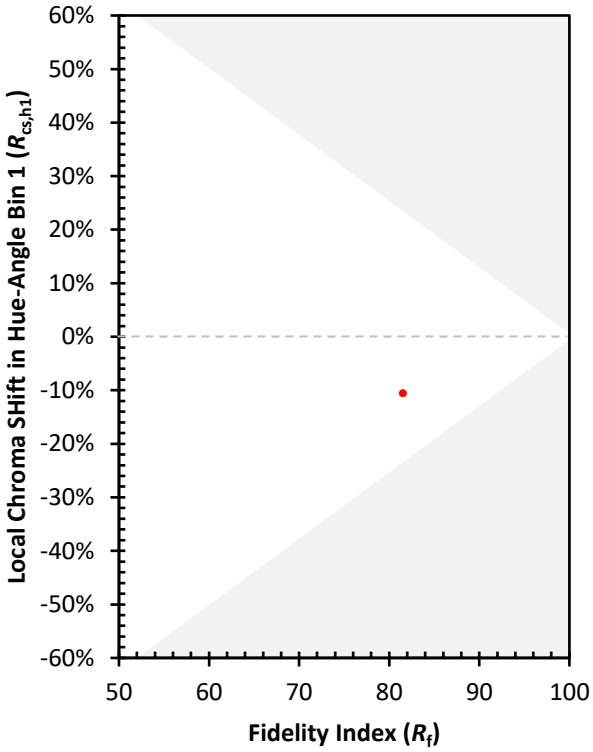


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)