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: P629094

Luminaire Tested: GWS-SA1A-830-U-T3-W-GRSWH

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:	P629094
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1928.1 lumens
Efficiency:	N/A
Efficacy:	97.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

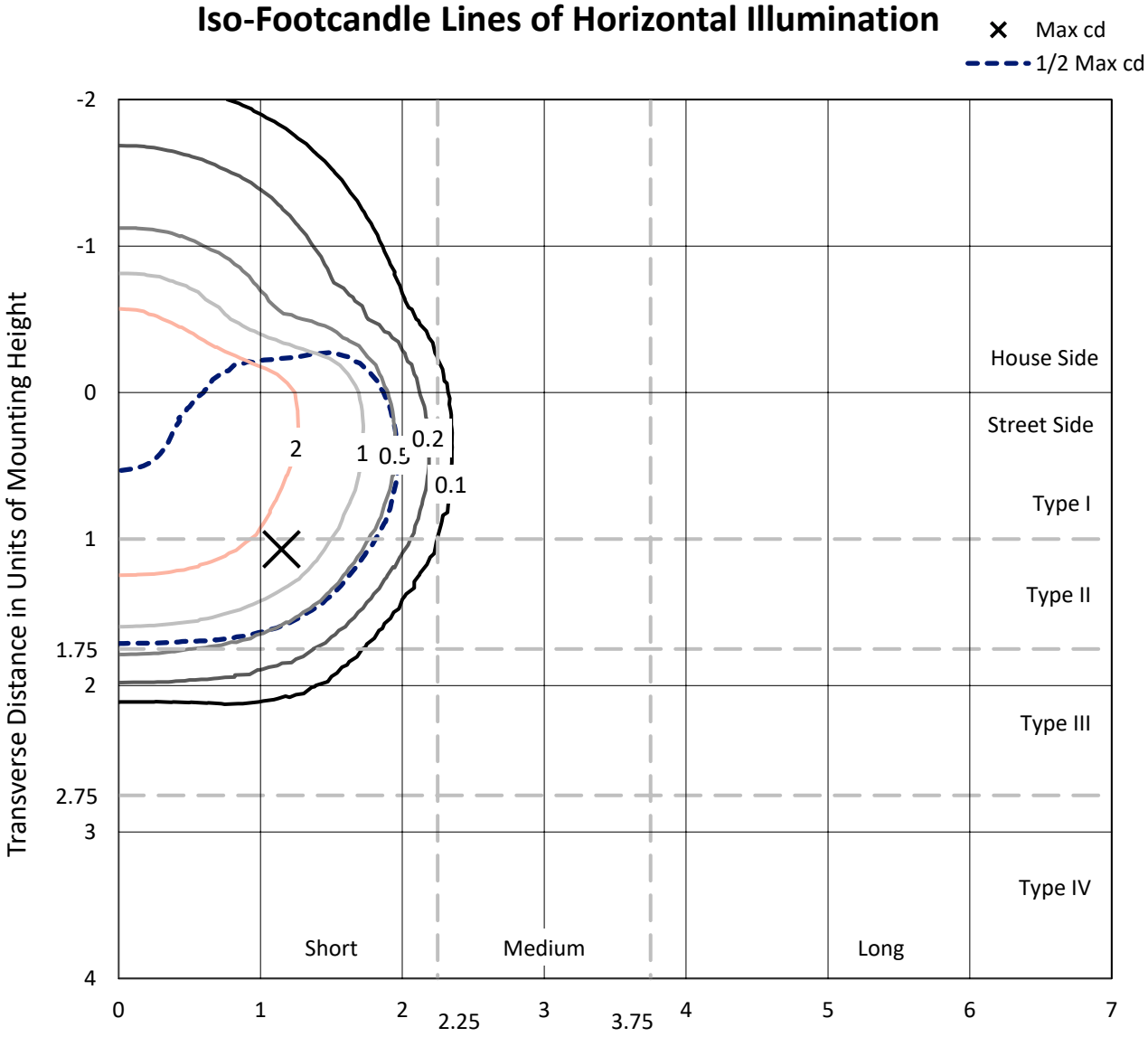
Input Watts (W):	19.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P629094
CATALOG NUMBER: GWS-SA1A-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



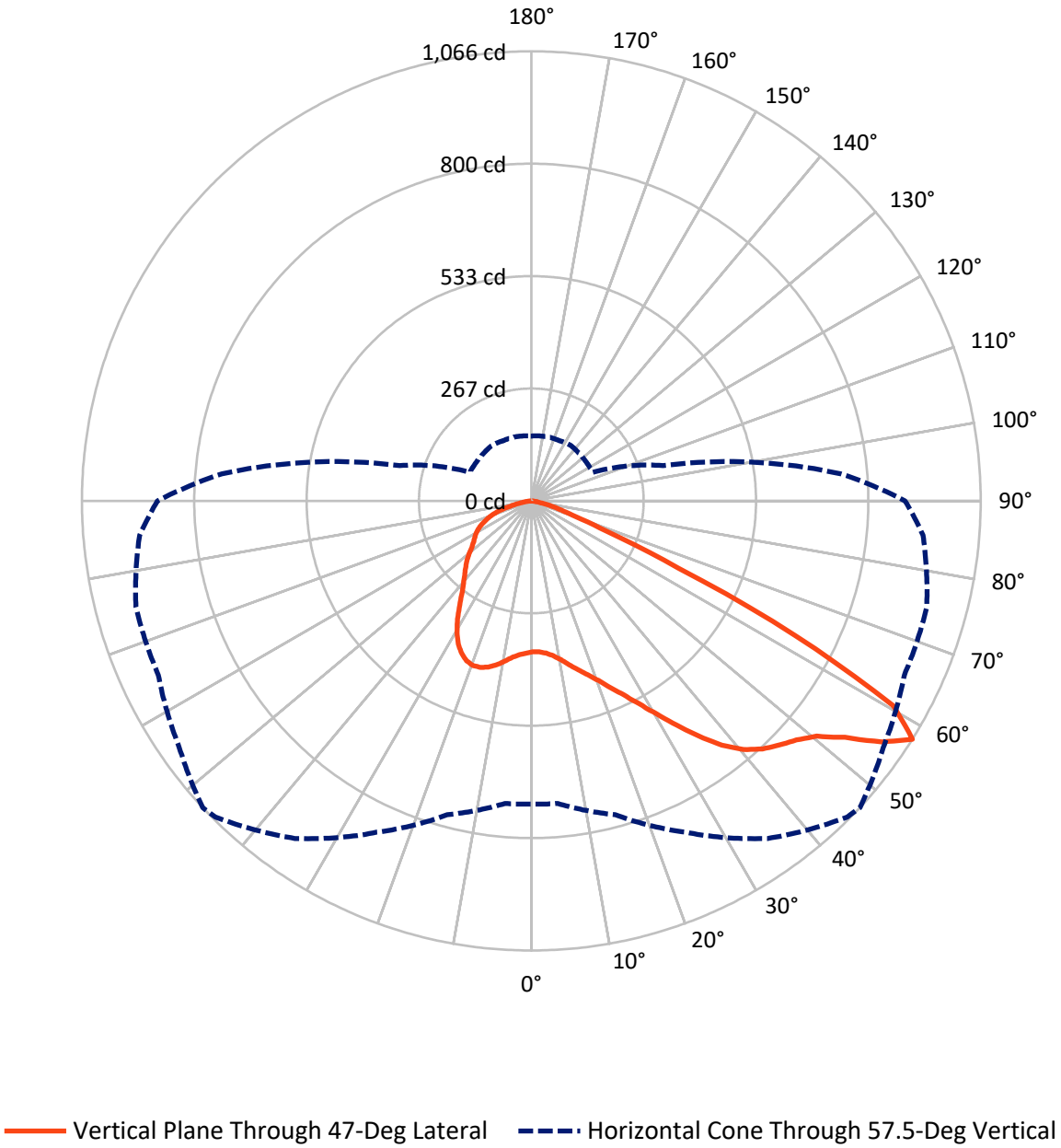
Based on 10 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P629094
CATALOG NUMBER: GWS-SA1A-830-U-T3-W-GRSWH

Luminous Intensity Polar Plot



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

Scaled Data Report

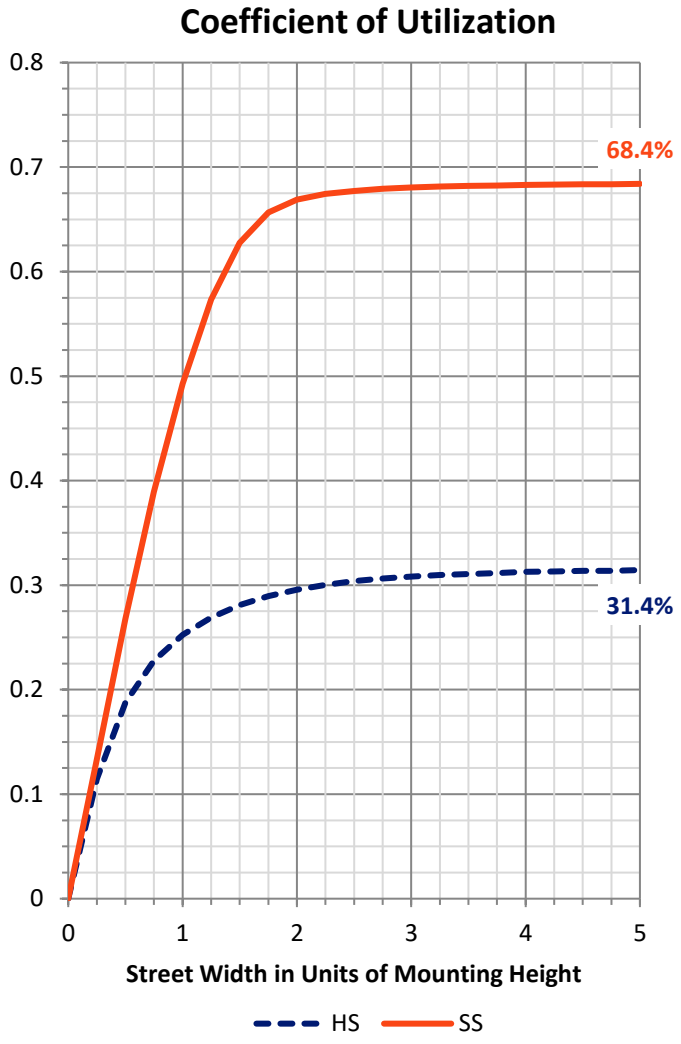
REPORT NUMBER: P629094
CATALOG NUMBER: GWS-SA1A-830-U-T3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	610.2	0.0	610.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	1317.9	0.0	1317.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	1928.1	0.0	1928.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.8
10°-20°	116.0	6.0
20°-30°	208.9	10.8
30°-40°	315.5	16.4
40°-50°	424.8	22.0
50°-60°	510.5	26.5
60°-70°	248.6	12.9
70°-80°	61.3	3.2
80°-90°	7.4	0.4
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°	1928.1	100.0
0°-180°	1928.1	100.0



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

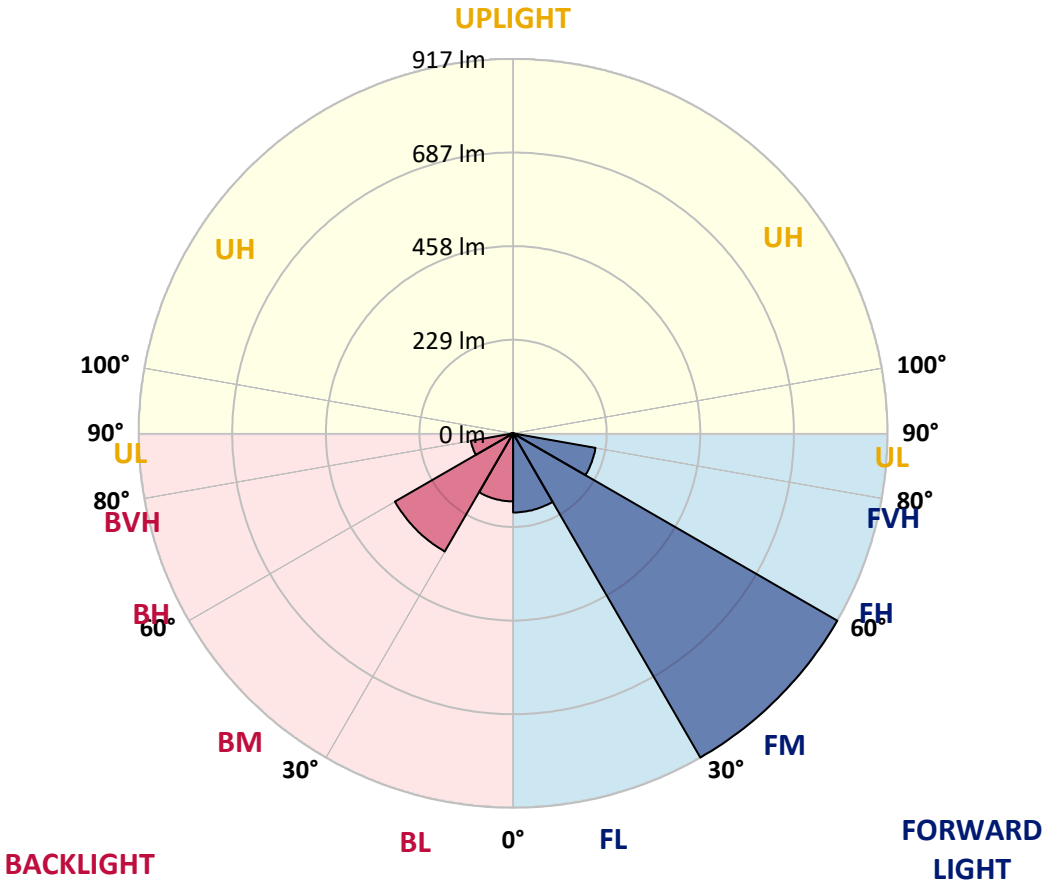
Scaled Data Report

REPORT NUMBER: P629094
CATALOG NUMBER: GWS-SA1A-830-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	193.7	10.0			
FM	(30°-60°)	916.5	47.5			
FH	(60°-80°)	204.9	10.6			G0/660
FVH	(80°-90°)	2.8	0.1			G0/10
BL	(0°-30°)	166.5	8.6	B1/500		
BM	(30°-60°)	334.2	17.3	B1/1000		
BH	(60°-80°)	105.0	5.4	B0/110		G0/110
BVH	(80°-90°)	4.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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

Scaled Data Report

REPORT NUMBER: P629094
CATALOG NUMBER: GWS-SA1A-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	357.6	357.6	357.6	357.6	357.6	357.6	*357.6*	357.6	357.6	357.6	357.6
2.5°	356.9	356.8	356.8	357.7	357.7	358.1	*358.5*	359.0	359.2	358.4	356.6
5°	360.8	360.8	360.8	361.6	361.6	361.9	*362.6*	362.8	362.6	361.3	359.5
7.5°	367.0	367.0	367.1	368.1	368.9	369.4	*370.5*	370.4	369.9	367.8	365.5
10°	377.0	377.5	378.0	379.1	380.7	381.9	*382.7*	382.7	382.0	378.8	375.9
12.5°	391.3	391.9	392.4	393.4	394.7	396.6	*398.4*	398.4	397.6	393.5	389.1
15°	407.9	408.6	408.4	408.7	411.2	413.9	*415.4*	416.4	416.7	411.0	404.2
17.5°	427.0	427.7	427.0	426.1	426.4	430.8	*433.4*	436.9	439.0	431.4	420.6
20°	444.4	443.7	443.7	444.4	445.3	450.7	*454.6*	460.4	463.0	453.8	436.9
22.5°	462.7	464.1	463.5	463.5	467.4	476.3	*481.0*	488.6	491.3	479.3	456.7
25°	486.3	487.6	487.3	487.6	492.1	504.8	*509.5*	523.6	526.3	509.1	478.5
27.5°	512.2	514.3	515.3	515.0	522.3	538.8	*544.6*	564.2	569.2	542.5	501.9
30°	545.9	548.2	549.0	548.7	557.2	579.8	*586.4*	608.7	615.9	582.0	531.5
32.5°	584.9	587.2	589.6	590.6	601.6	624.6	*634.2*	657.3	667.5	627.7	567.3
35°	623.6	625.6	630.3	637.9	653.0	676.4	*684.9*	707.7	717.6	675.1	610.5
37.5°	666.4	667.7	671.7	682.3	704.0	726.3	*734.7*	756.6	757.7	721.0	659.4
40°	713.2	713.2	712.4	722.7	745.4	767.9	*775.2*	787.9	781.2	756.3	707.0
42.5°	752.9	752.2	752.9	762.6	779.4	797.7	*804.0*	801.6	793.2	783.3	750.1
45°	788.7	789.1	795.0	802.4	811.2	822.0	*825.7*	812.0	804.4	805.0	784.6
47.5°	813.0	813.4	827.0	839.5	844.9	848.3	*846.6*	827.5	823.6	830.9	811.2
50°	816.2	818.8	842.3	867.8	881.1	881.6	*877.1*	853.8	852.6	860.9	825.4
52.5°	816.8	819.4	848.7	894.9	929.4	936.7	*931.5*	907.2	895.4	887.1	842.9
55°	814.4	817.3	849.7	913.0	979.1	1008.3	*1008.7*	974.4	936.7	931.2	892.8
57.5°	*719.0*	*720.2*	*770.4*	*866.9*	*977.2*	*1059.8*	*1066.1*	*1019.4*	*976.4*	*971.2*	*932.8*
60°	500.9	505.4	560.0	687.4	820.9	966.5	*986.9*	973.3	944.4	906.7	800.3
62.5°	250.8	254.7	309.5	430.0	566.2	681.1	*703.0*	717.4	724.2	683.7	544.9
65°	108.0	110.9	144.9	224.6	320.5	376.0	*383.6*	401.0	443.4	395.6	293.6
67.5°	72.2	74.2	91.5	137.0	188.8	192.4	*191.3*	195.0	204.2	168.6	132.6
70°	55.4	57.0	68.7	100.4	135.7	116.1	*110.0*	99.8	108.3	110.4	107.5
72.5°	40.2	41.5	50.2	68.5	85.0	74.2	*73.2*	78.4	90.0	93.3	91.5
75°	25.9	26.6	31.9	37.6	43.9	47.6	*49.6*	58.9	70.8	73.2	71.1
77.5°	17.3	17.8	20.9	24.1	24.9	25.1	*25.7*	30.0	38.1	42.6	42.1
80°	9.1	9.1	10.2	10.2	11.7	13.9	*14.6*	17.3	21.1	23.3	23.5
82.5°	3.6	3.7	4.4	4.9	5.8	7.1	*7.6*	9.1	11.0	12.6	14.1
85°	1.5	1.6	1.8	2.1	2.6	3.2	*3.4*	3.9	5.2	6.5	7.3
87.5°	0.0	0.0	0.2	0.2	0.3	0.5	*0.5*	0.6	0.8	1.5	1.9
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: P629094
CATALOG NUMBER: GWS-SA1A-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6	357.6
2.5°	358.7	356.6	358.7	359.4	361.1	361.8	360.6	360.5	360.5	358.9	358.4
5°	361.1	359.2	361.3	362.3	364.9	366.5	366.8	368.1	368.9	368.3	368.1
7.5°	367.1	364.7	367.0	368.4	371.8	374.4	375.5	378.5	380.6	380.2	380.1
10°	377.6	374.4	377.0	379.4	383.2	386.2	386.4	388.0	390.1	389.5	389.1
12.5°	389.8	386.7	389.6	392.1	396.4	397.7	395.6	395.0	395.3	394.5	393.8
15°	404.7	400.3	402.9	405.7	408.1	406.6	402.1	400.3	400.2	399.0	398.4
17.5°	419.6	414.1	416.0	417.5	416.4	411.8	406.2	403.1	401.6	399.4	398.7
20°	434.3	427.4	427.0	425.9	420.7	412.5	404.9	398.7	395.0	391.9	390.8
22.5°	451.2	441.5	436.6	431.4	420.1	406.6	395.1	386.4	380.4	376.5	375.2
25°	469.3	455.5	445.5	435.1	413.6	394.2	378.1	366.2	359.0	354.8	353.4
27.5°	487.3	468.3	453.3	435.6	400.6	376.2	354.7	338.5	331.3	327.9	326.8
30°	511.6	485.3	462.5	429.3	383.6	351.3	324.4	308.0	303.3	300.9	299.9
32.5°	539.6	506.9	474.8	416.0	361.9	322.1	293.8	282.4	279.2	274.5	274.3
35°	576.5	537.6	486.5	396.4	334.6	290.8	270.3	262.2	256.4	248.9	248.3
37.5°	619.6	576.0	492.8	371.5	302.7	265.1	252.8	243.7	234.3	224.5	223.2
40°	664.1	620.9	493.3	342.0	271.4	248.1	237.7	225.9	214.2	203.2	201.8
42.5°	710.9	662.7	484.7	308.0	245.8	233.4	222.8	207.9	194.8	187.4	186.6
45°	752.7	696.4	465.3	272.2	226.9	221.1	207.6	191.6	184.6	179.3	178.1
47.5°	785.6	718.7	439.0	240.2	211.5	208.4	190.9	182.7	177.3	172.5	171.3
50°	801.8	723.7	404.9	214.1	197.2	193.5	181.5	175.2	171.7	167.8	166.8
52.5°	821.9	729.4	375.4	192.2	183.3	178.3	173.8	168.7	166.2	163.7	162.9
55°	868.0	750.8	359.8	174.7	170.0	167.8	167.1	162.9	162.1	160.5	159.0
57.5°	*886.8*	*737.0*	*323.1*	*160.5*	*159.5*	*159.8*	*161.5*	*157.6*	*156.8*	*154.8*	*153.8*
60°	713.2	557.1	218.8	148.2	150.8	152.9	154.5	150.6	149.5	149.1	147.9
62.5°	457.0	342.7	152.7	136.7	140.6	143.2	144.1	140.4	139.6	142.2	142.3
65°	237.9	186.7	123.9	124.4	127.6	131.5	133.4	132.1	131.8	134.6	134.7
67.5°	121.5	114.2	108.0	109.8	112.4	117.4	121.9	127.6	129.6	129.9	130.0
70°	103.5	100.2	97.2	98.3	101.1	103.8	108.2	110.9	107.7	106.9	106.6
72.5°	88.1	85.7	84.2	85.5	87.0	86.5	85.2	86.5	87.0	87.1	87.3
75°	68.5	66.7	65.6	65.7	65.7	64.0	61.5	60.1	58.5	57.2	57.2
77.5°	41.9	42.3	43.4	43.2	43.1	42.4	40.0	38.7	34.8	33.7	33.7
80°	24.0	24.5	25.6	25.9	25.9	25.1	22.7	21.2	19.4	18.6	18.5
82.5°	14.6	15.2	15.9	16.2	16.4	15.4	13.3	12.1	11.2	10.4	10.4
85°	7.6	7.9	8.6	8.7	8.3	7.3	6.2	5.7	4.7	4.5	4.5
87.5°	2.1	2.3	2.6	2.1	1.9	1.5	0.8	0.6	0.3	0.2	0.2
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

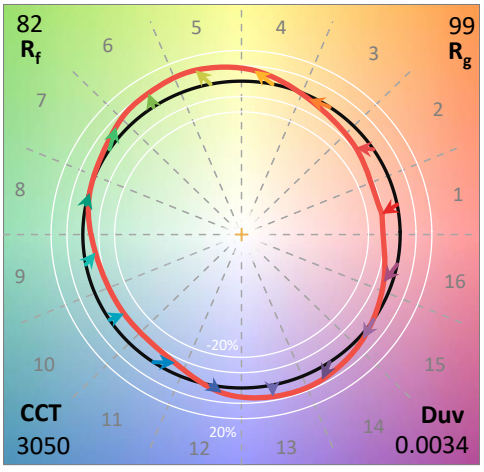
Test Information

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

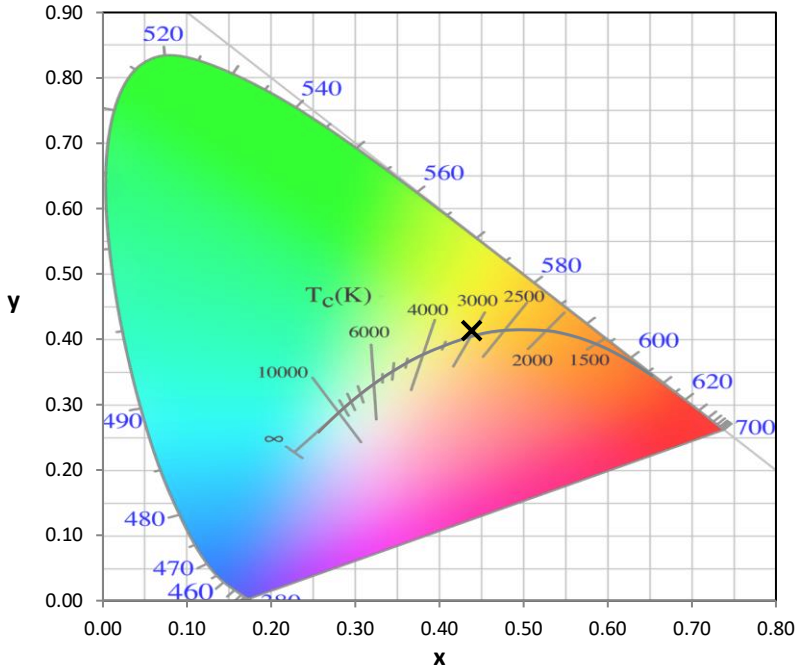
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

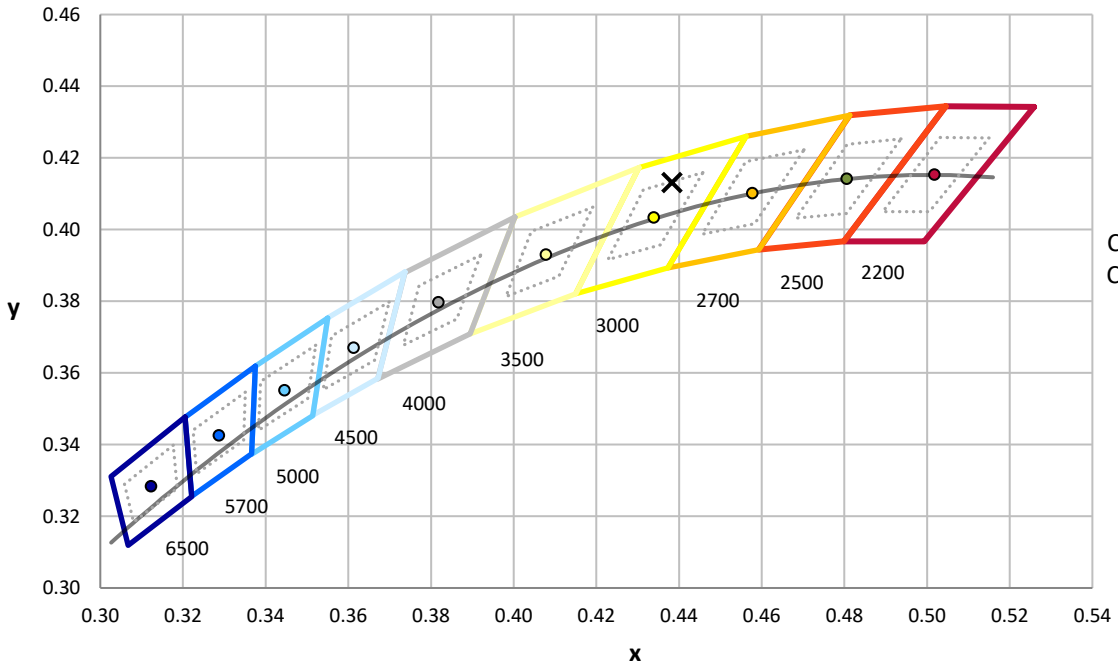
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

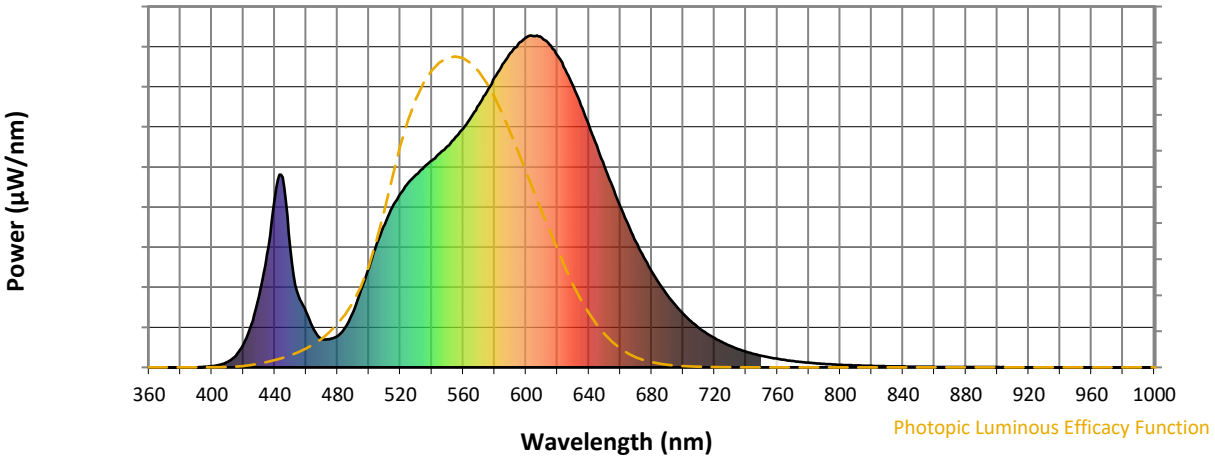


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

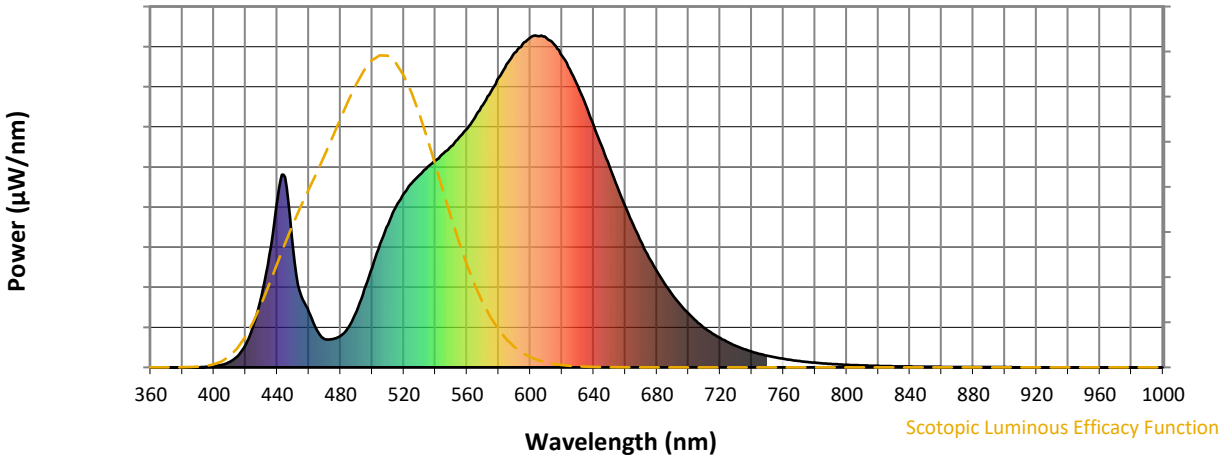


Photopic Lumens: NR

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

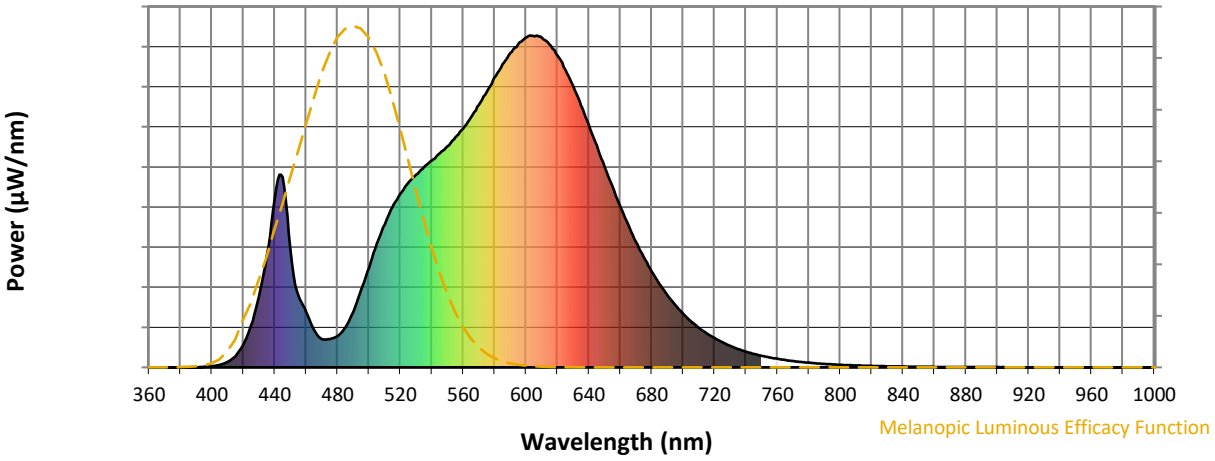


Scotopic Lumens: NR **S/P: 1.27**

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			

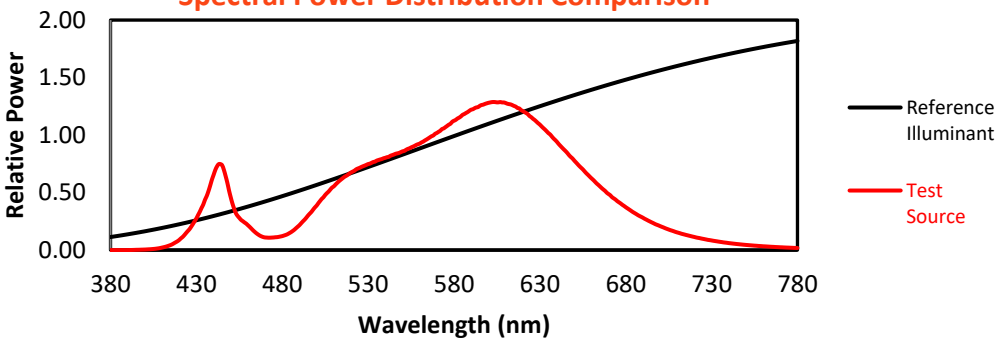
REPORT NUMBER: SP1-2408-195-9

TM-30-18

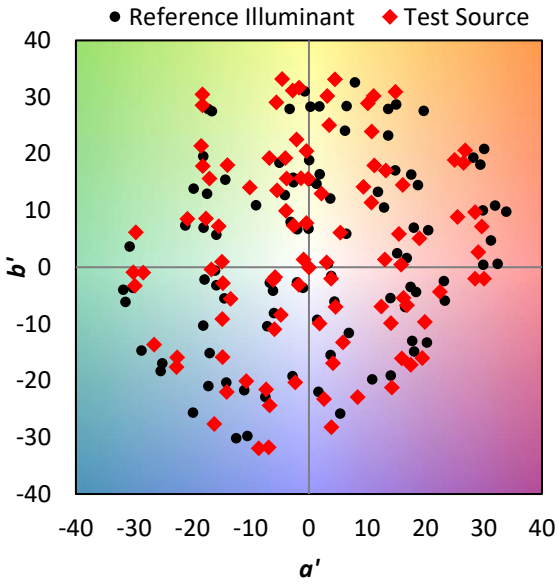
Summary

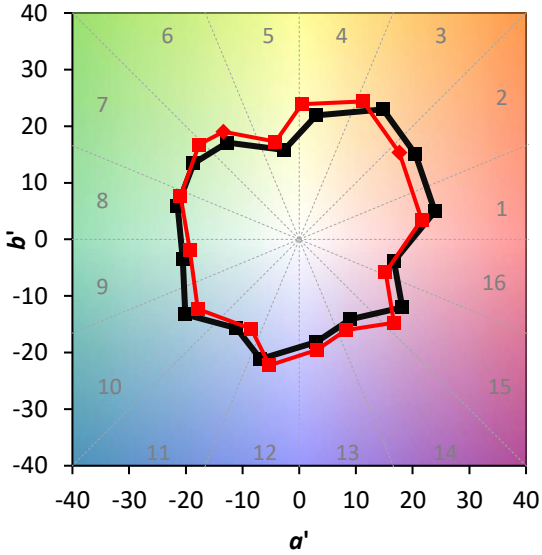
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

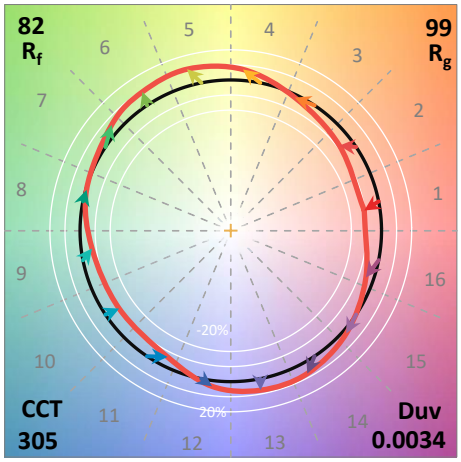
Spectral Power Distribution Comparison

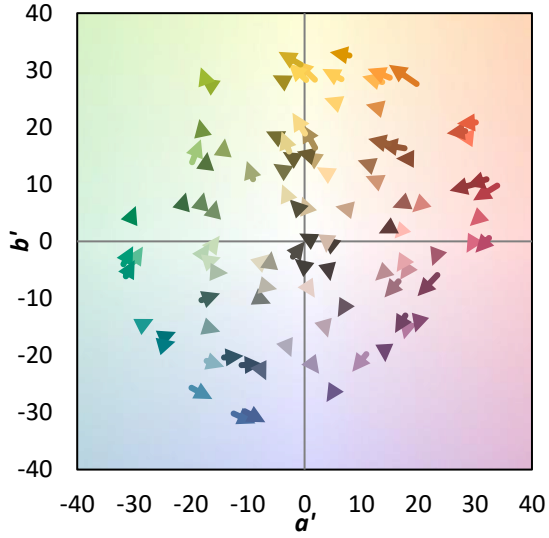


Color Vector Graphics







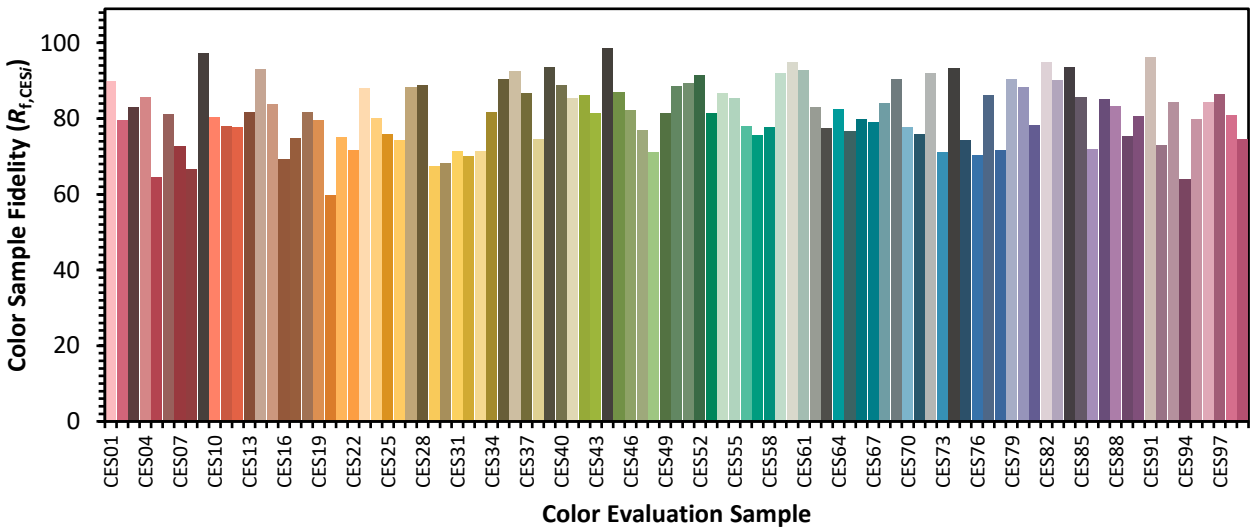


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

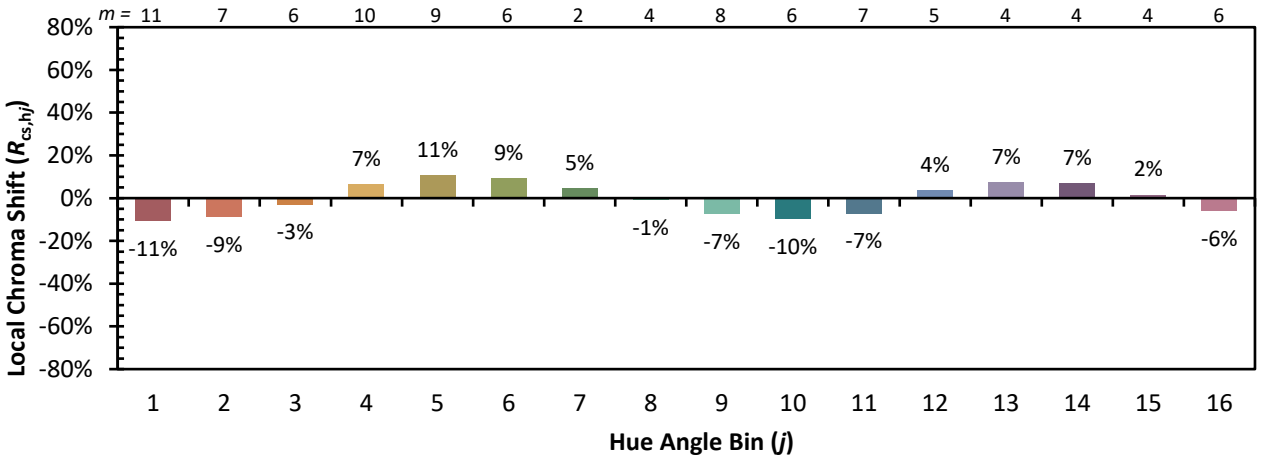
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

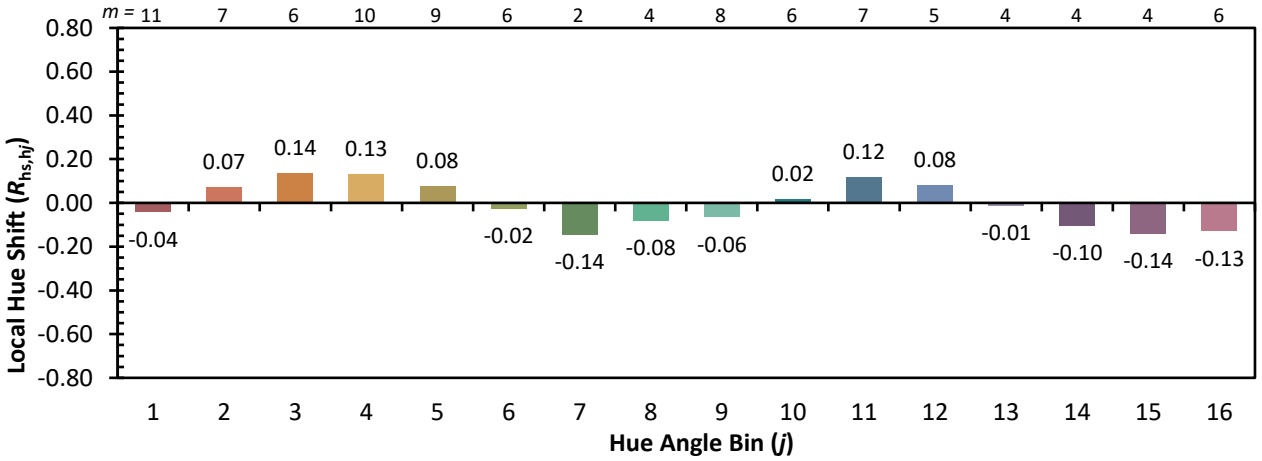


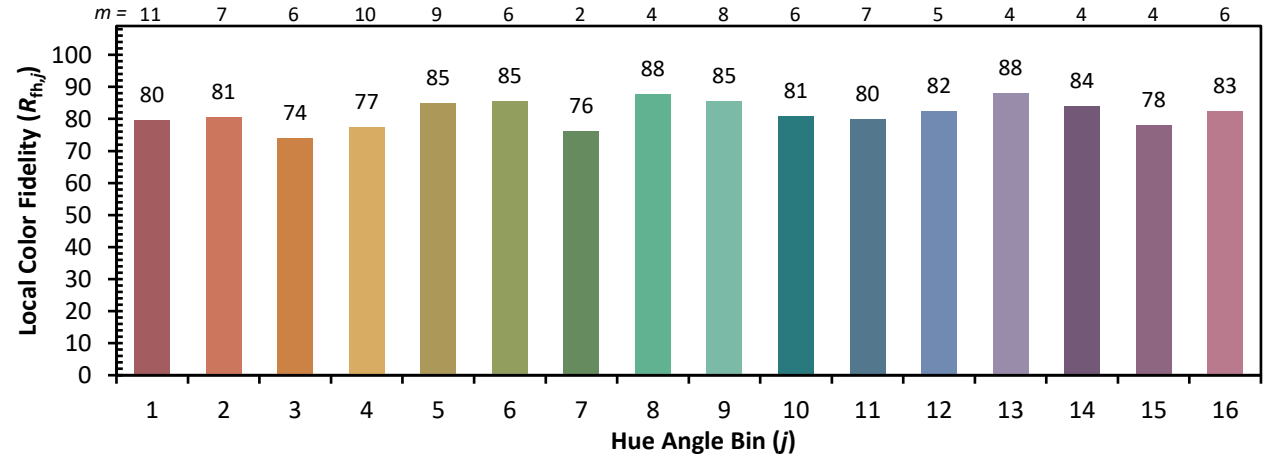
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



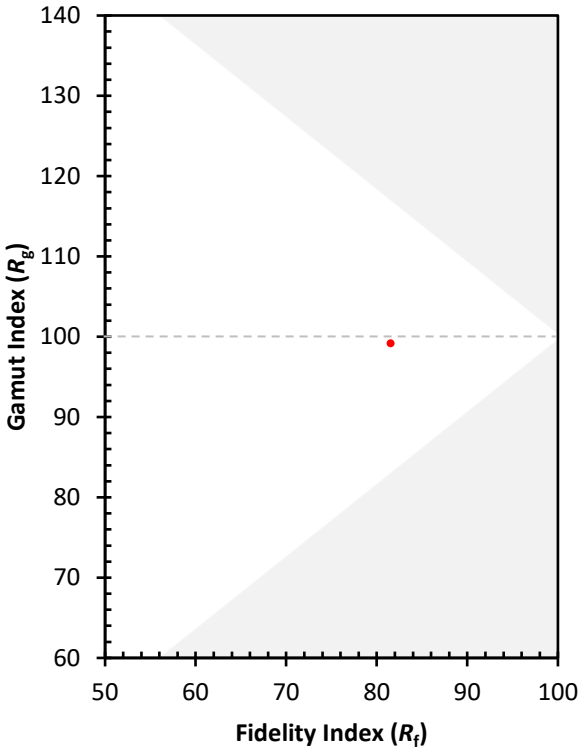


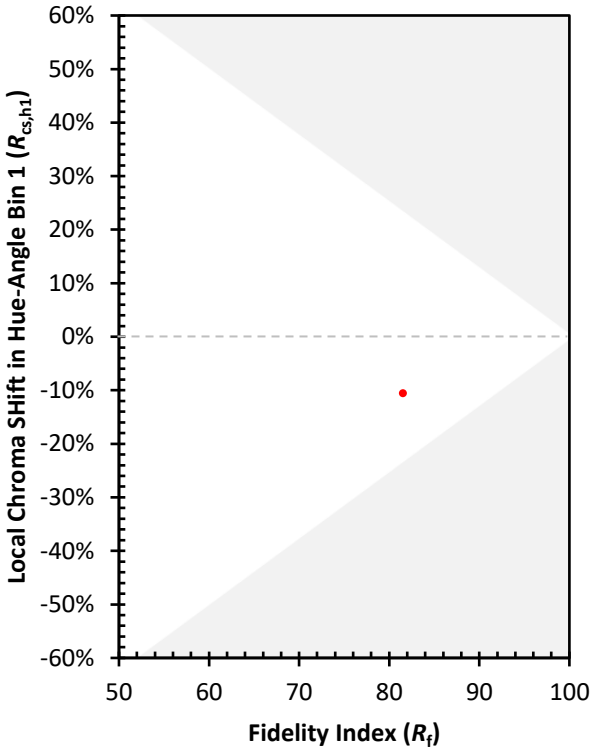


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)