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: P629064

Luminaire Tested: GWS-SA1A-830-U-RW-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:	P629064
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-RW-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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:	1991.4 lumens
Efficiency:	N/A
Efficacy:	101.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type V - 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

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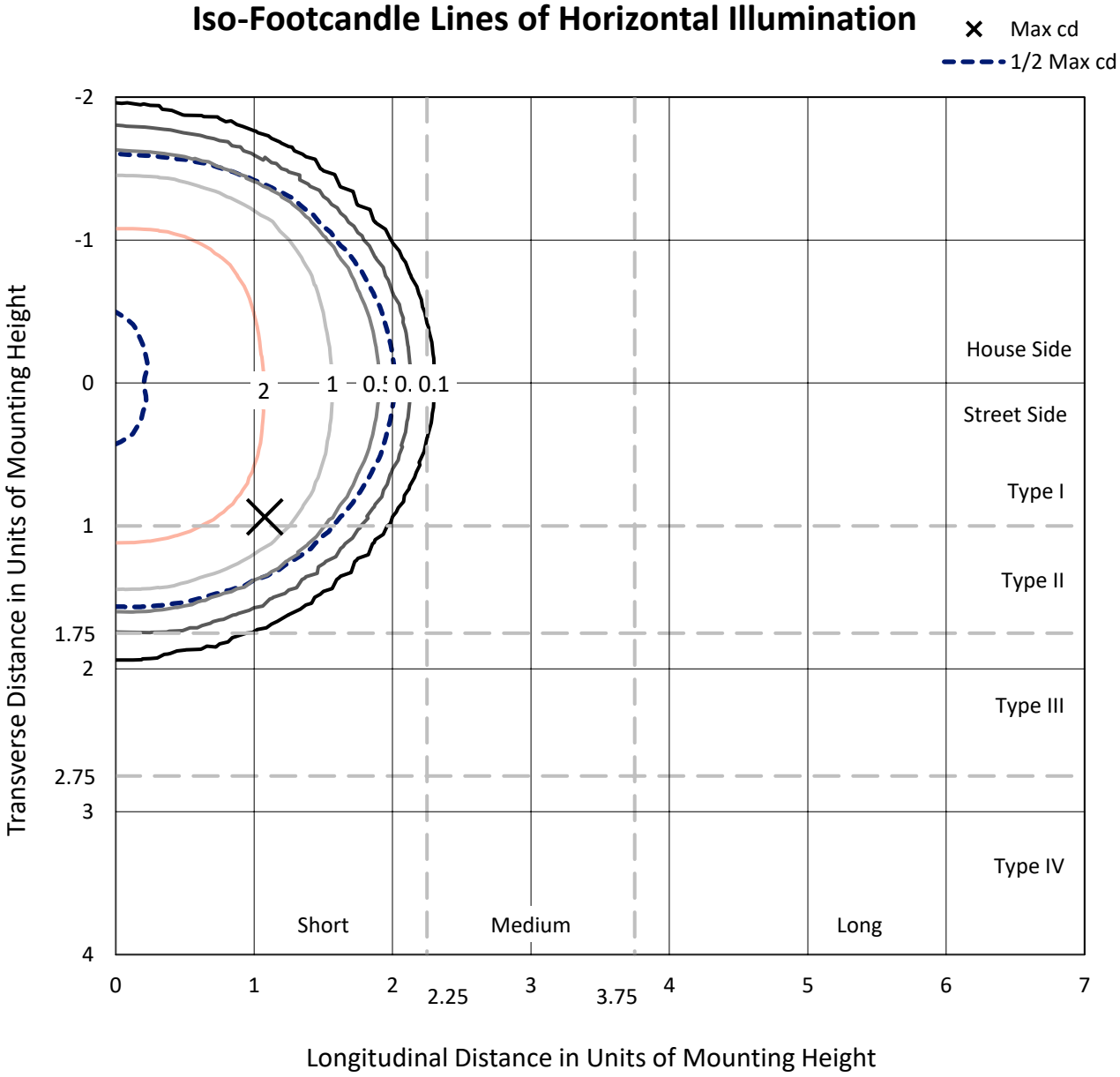
REPORT NUMBER: P629064
CATALOG NUMBER: GWS-SA1A-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - N/A

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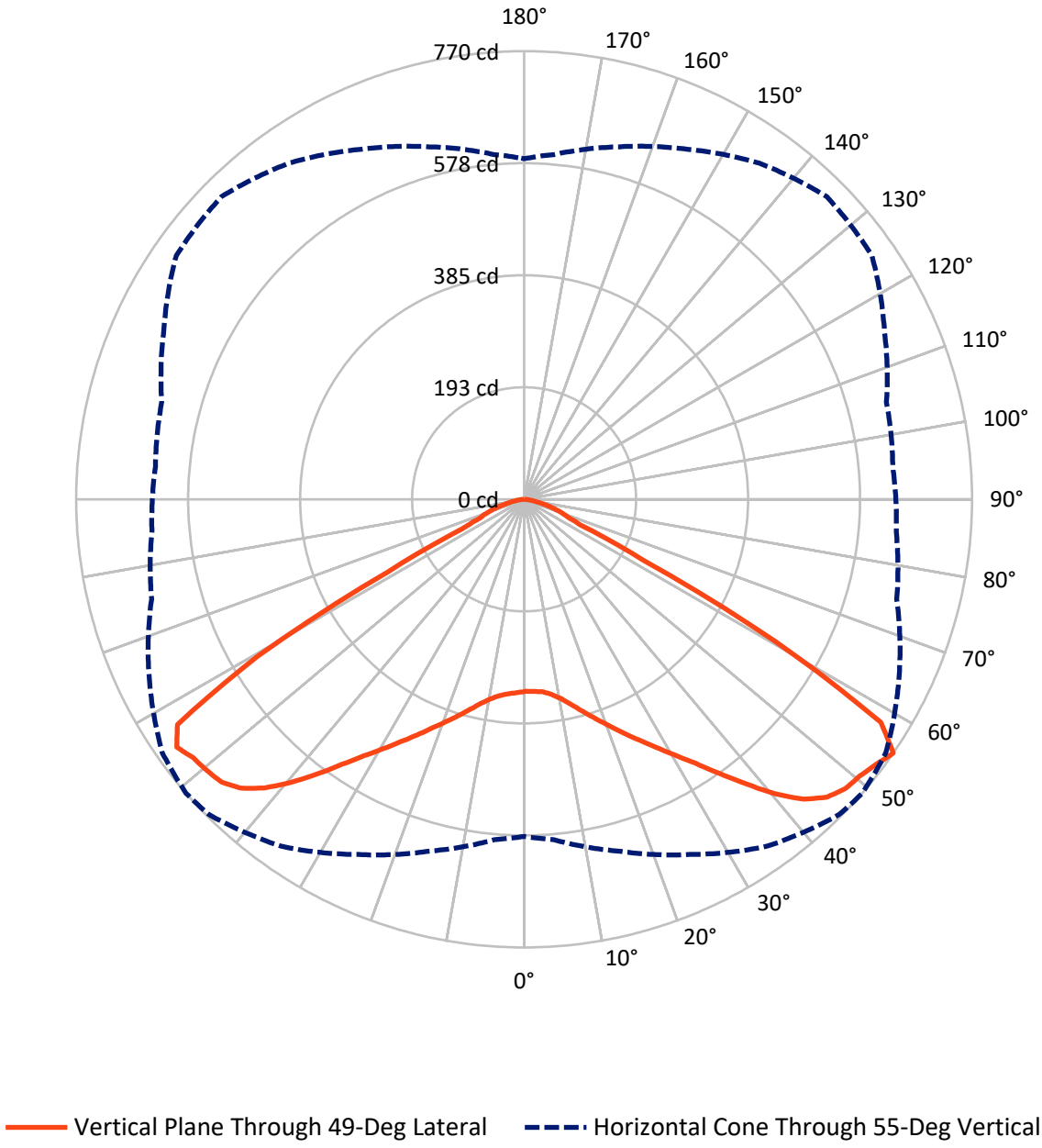
Luminous Intensity Polar Plot



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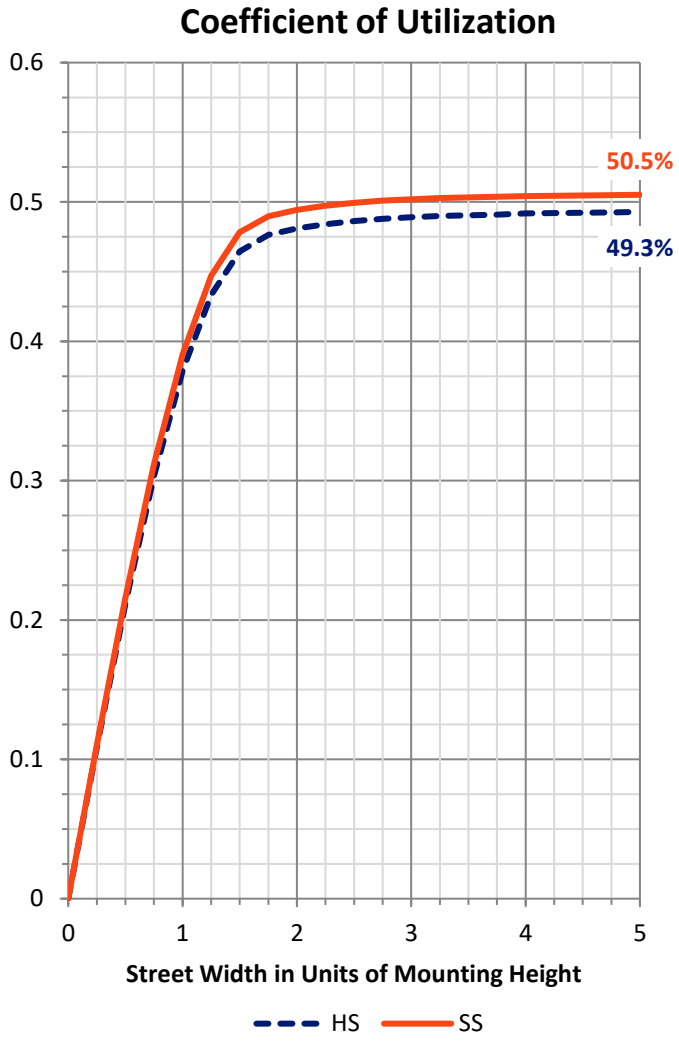
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.9	0.0	985.9
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	1005.5	0.0	1005.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	1991.4	0.0	1991.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	1.6
10°-20°	106.1	5.3
20°-30°	202.2	10.2
30°-40°	342.7	17.2
40°-50°	515.8	25.9
50°-60°	564.6	28.4
60°-70°	178.5	9.0
70°-80°	42.8	2.2
80°-90°	6.4	0.3
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°	1991.4	100.0
0°-180°	1991.4	100.0



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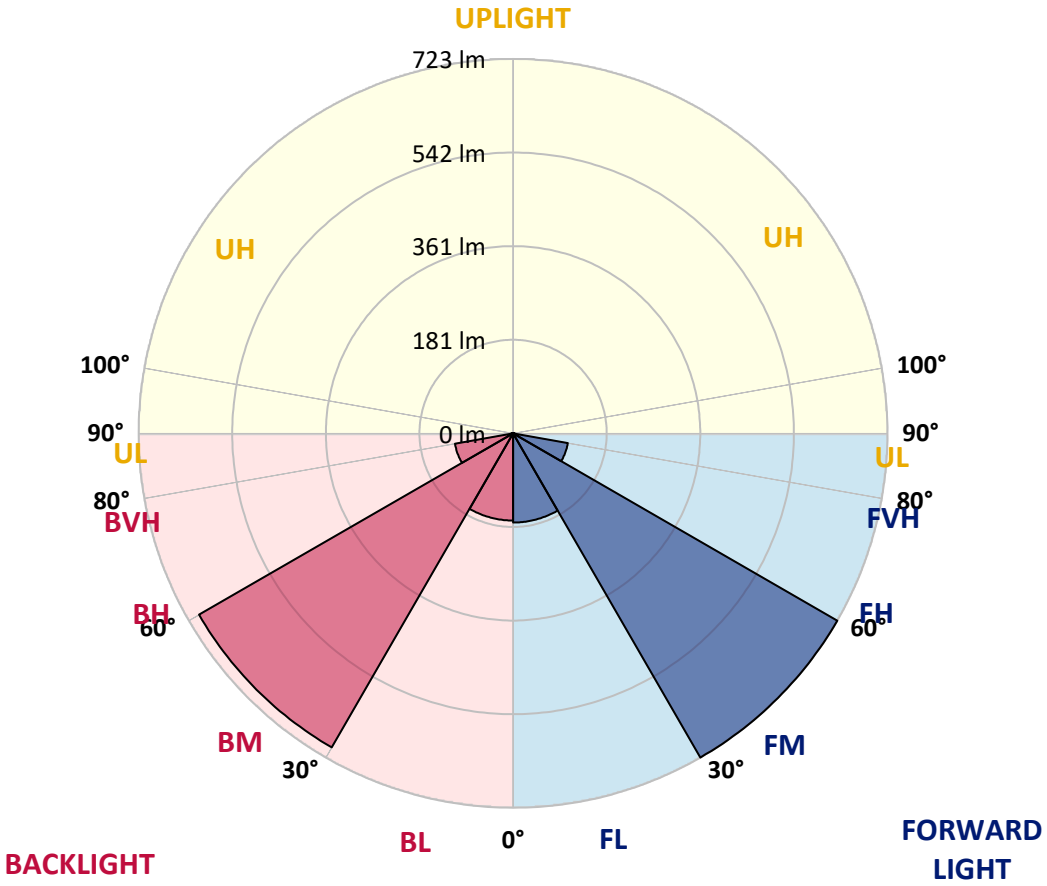
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	172.2	8.6			
FM	(30°-60°)	722.9	36.3			
FH	(60°-80°)	107.4	5.4			G0/660
FVH	(80°-90°)	3.0	0.1			G0/10
BL	(0°-30°)	168.3	8.5	B1/500		
BM	(30°-60°)	700.2	35.2	B1/1000		
BH	(60°-80°)	114.0	5.7	B1/500		G0/660
BVH	(80°-90°)	3.5	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 V Short



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REPORT NUMBER: P629064
CATALOG NUMBER: GWS-SA1A-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	329.9	329.9	329.9	329.9	329.9	329.9	*329.9*	329.9	329.9	329.9	329.9
2.5°	325.0	325.4	326.0	327.1	328.3	329.9	*330.5*	331.3	331.2	332.2	332.2
5°	323.4	323.9	324.9	326.5	328.4	331.5	*332.3*	334.3	336.2	338.6	339.4
7.5°	325.4	326.0	327.1	329.7	332.6	336.7	*338.3*	341.5	345.3	349.6	351.4
10°	329.1	329.9	331.8	336.0	340.7	346.9	*348.3*	352.4	358.4	364.4	367.9
12.5°	333.3	334.6	338.1	344.8	351.8	359.8	*362.1*	367.1	373.6	381.4	386.2
15°	338.1	339.3	344.8	354.2	365.0	375.7	*378.3*	383.2	390.5	398.1	404.9
17.5°	348.3	350.3	356.8	367.6	380.3	392.9	*395.8*	401.3	407.1	413.1	419.6
20°	362.3	363.9	372.2	385.6	400.5	412.0	*414.9*	419.8	422.5	425.6	431.1
22.5°	376.2	378.5	387.9	403.7	421.2	433.7	*436.0*	440.5	438.6	437.6	441.1
25°	393.5	396.6	405.8	423.2	441.0	456.4	*458.2*	462.0	458.8	453.8	453.6
27.5°	415.1	417.8	427.4	445.2	462.8	478.9	*482.3*	487.5	480.3	474.2	469.8
30°	440.7	442.4	453.0	471.9	490.1	505.3	*509.6*	514.8	509.5	499.3	494.9
32.5°	470.5	472.9	485.0	505.0	521.1	536.4	*540.7*	547.2	541.4	529.9	524.4
35°	506.2	508.7	521.5	543.2	559.7	575.4	*578.5*	583.8	576.5	563.3	558.9
37.5°	545.1	548.2	564.4	585.0	602.3	620.6	*620.7*	622.4	612.0	595.5	590.6
40°	588.8	592.9	609.1	630.5	651.4	666.3	*666.1*	661.6	644.1	618.5	611.0
42.5°	632.1	635.3	651.7	673.7	694.6	708.7	*704.5*	693.5	668.2	633.4	623.5
45°	663.3	665.8	682.9	707.7	728.9	737.7	*730.1*	716.8	682.6	642.8	628.2
47.5°	678.1	681.3	698.6	723.3	747.2	752.2	*743.2*	730.7	691.0	651.5	631.9
50°	670.1	674.4	693.9	716.8	743.8	754.2	*747.7*	735.2	699.9	660.1	638.6
52.5°	649.6	653.6	678.4	706.1	736.7	757.3	*757.1*	746.9	710.1	662.5	638.9
55°	*579.3*	*587.2*	*625.8*	*673.5*	*728.0*	*766.3*	*770.2*	*759.4*	*711.8*	*663.2*	*642.3*
57.5°	377.0	390.9	427.5	489.7	598.9	697.0	*723.3*	725.8	700.1	660.4	642.9
60°	157.4	168.6	197.6	238.9	329.1	445.8	*496.7*	547.7	609.2	631.6	636.9
62.5°	97.8	98.8	101.7	111.1	141.2	198.2	*230.9*	278.7	370.2	448.1	484.1
65°	88.3	88.7	89.4	88.7	90.2	97.2	*105.9*	122.6	159.8	198.5	244.5
67.5°	77.7	78.4	78.9	78.4	78.9	79.2	*80.2*	81.6	88.4	93.9	98.1
70°	62.8	63.8	64.6	64.3	66.2	66.2	*67.2*	68.3	71.7	75.8	78.7
72.5°	47.9	47.1	48.1	48.4	50.2	51.2	*52.6*	53.9	57.8	60.2	64.0
75°	31.1	30.3	31.7	32.6	35.0	36.3	*37.6*	38.9	41.6	43.2	46.8
77.5°	16.8	16.7	18.1	19.3	21.9	23.5	*24.5*	25.4	27.7	28.2	30.4
80°	9.7	9.7	10.7	11.5	13.1	14.9	*15.9*	16.7	18.3	18.8	19.8
82.5°	5.3	5.3	5.8	6.3	7.6	8.6	*9.4*	10.0	11.5	12.0	12.5
85°	2.6	2.4	2.8	3.1	3.6	4.0	*4.5*	4.9	6.0	6.3	7.0
87.5°	0.3	0.3	0.3	0.5	0.6	1.0	*1.1*	1.1	1.8	2.1	2.4
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: P629064
CATALOG NUMBER: GWS-SA1A-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9	329.9
2.5°	333.1	331.0	332.3	332.8	332.8	332.3	330.2	329.6	328.6	327.1	327.1
5°	340.6	339.0	339.3	338.5	336.5	334.1	330.2	328.3	326.6	324.9	324.7
7.5°	353.4	351.3	350.9	347.9	342.7	337.5	331.7	328.1	325.7	323.4	323.2
10°	370.1	368.1	365.7	359.5	351.9	344.3	336.4	331.5	327.9	324.7	324.5
12.5°	388.7	386.4	381.9	372.8	363.2	355.8	346.7	339.3	333.9	329.6	328.8
15°	408.9	405.7	397.9	387.2	377.8	369.9	360.2	349.5	341.4	334.4	333.6
17.5°	424.5	420.3	411.8	401.8	394.0	386.1	373.5	360.0	348.3	339.6	338.3
20°	435.2	431.8	422.2	414.7	410.2	403.2	388.5	373.3	360.2	349.2	348.5
22.5°	445.0	441.0	431.6	427.2	427.2	422.5	408.4	390.5	375.1	362.3	360.7
25°	456.2	451.8	444.7	444.2	446.5	444.4	427.4	408.1	390.1	375.7	373.1
27.5°	471.8	466.9	462.7	465.6	468.8	466.6	447.6	425.3	406.3	391.8	389.5
30°	496.5	490.5	486.7	490.2	496.5	489.9	469.3	445.7	426.6	410.5	409.4
32.5°	525.4	518.6	514.5	520.2	525.8	515.5	495.1	472.4	452.3	435.5	433.5
35°	560.0	551.4	545.4	553.1	558.9	548.7	528.4	506.9	484.5	467.1	464.5
37.5°	590.8	580.4	576.4	587.1	594.8	588.2	566.2	545.9	521.5	502.4	501.2
40°	613.1	602.9	600.0	617.7	631.3	629.7	609.9	586.7	563.7	541.7	539.6
42.5°	622.9	615.7	616.4	640.2	661.2	671.6	653.9	629.2	607.0	584.1	582.7
45°	625.0	620.6	625.8	655.6	683.3	704.5	689.4	668.7	643.6	621.6	620.9
47.5°	627.2	624.8	632.7	664.3	697.2	721.8	713.4	692.0	666.6	645.0	643.4
50°	632.6	631.6	640.5	670.5	703.8	726.5	716.9	695.7	669.7	648.4	644.6
52.5°	634.2	632.6	645.4	680.0	714.8	726.3	705.8	678.1	651.8	628.2	624.1
55°	*639.2*	*636.3*	*645.0*	*683.6*	*730.1*	*735.7*	*705.1*	*663.7*	*627.1*	*594.8*	*585.3*
57.5°	640.5	637.3	642.9	677.8	713.5	708.5	619.8	535.6	466.6	430.8	434.8
60°	633.5	634.5	624.8	620.9	572.3	505.3	379.4	303.3	238.2	210.7	216.7
62.5°	482.3	486.3	453.1	394.0	303.0	240.2	158.9	123.4	104.5	99.6	100.4
65°	243.4	248.9	214.4	177.3	131.8	106.6	92.1	89.2	88.3	87.1	87.1
67.5°	96.4	98.0	96.7	90.5	84.2	81.9	81.3	81.0	79.8	79.2	79.4
70°	77.4	78.7	76.8	72.9	70.3	70.1	69.8	69.2	68.3	68.3	68.8
72.5°	63.2	64.5	61.7	59.3	57.3	55.9	55.1	54.6	53.4	53.4	53.9
75°	46.5	47.3	45.0	44.7	42.6	41.1	39.8	39.2	37.7	37.1	37.6
77.5°	30.9	30.8	29.6	29.6	28.8	27.0	25.6	24.1	22.2	20.9	21.2
80°	20.1	20.1	19.6	19.6	18.8	17.3	15.5	14.1	13.0	12.0	12.0
82.5°	12.8	12.6	12.5	12.3	12.0	10.5	9.2	8.3	7.4	6.8	7.0
85°	7.1	7.1	6.8	6.8	6.2	5.3	4.7	4.0	3.6	3.4	3.4
87.5°	2.4	2.4	2.3	2.3	1.9	1.5	1.1	1.0	0.8	0.6	0.8
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

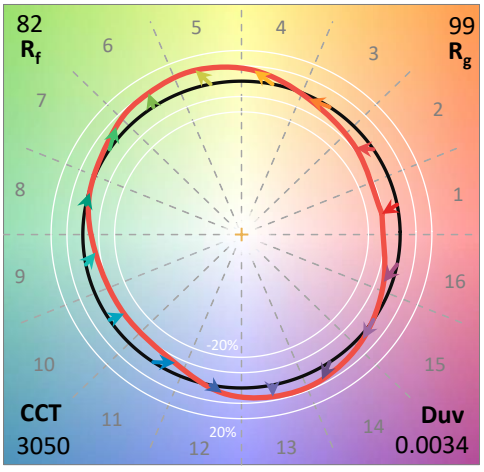
Test Information

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

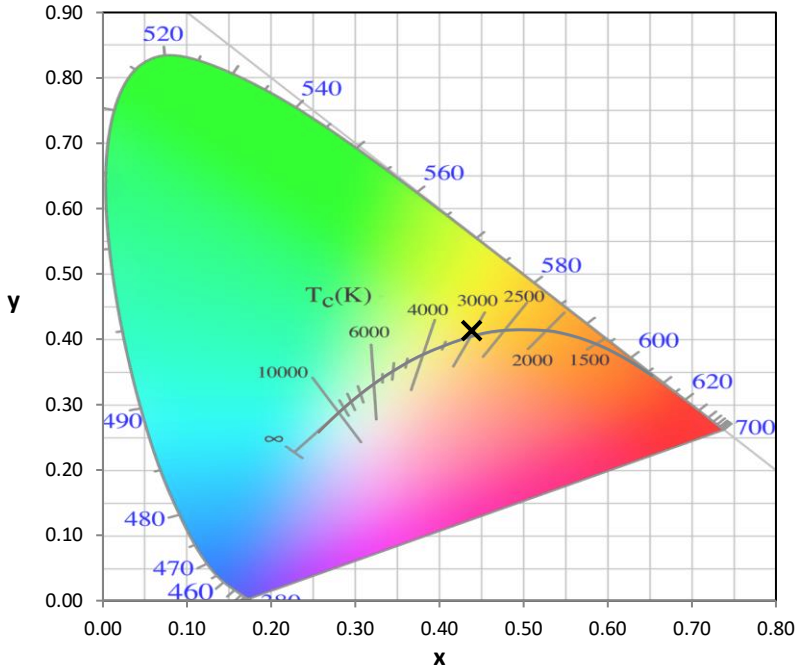
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

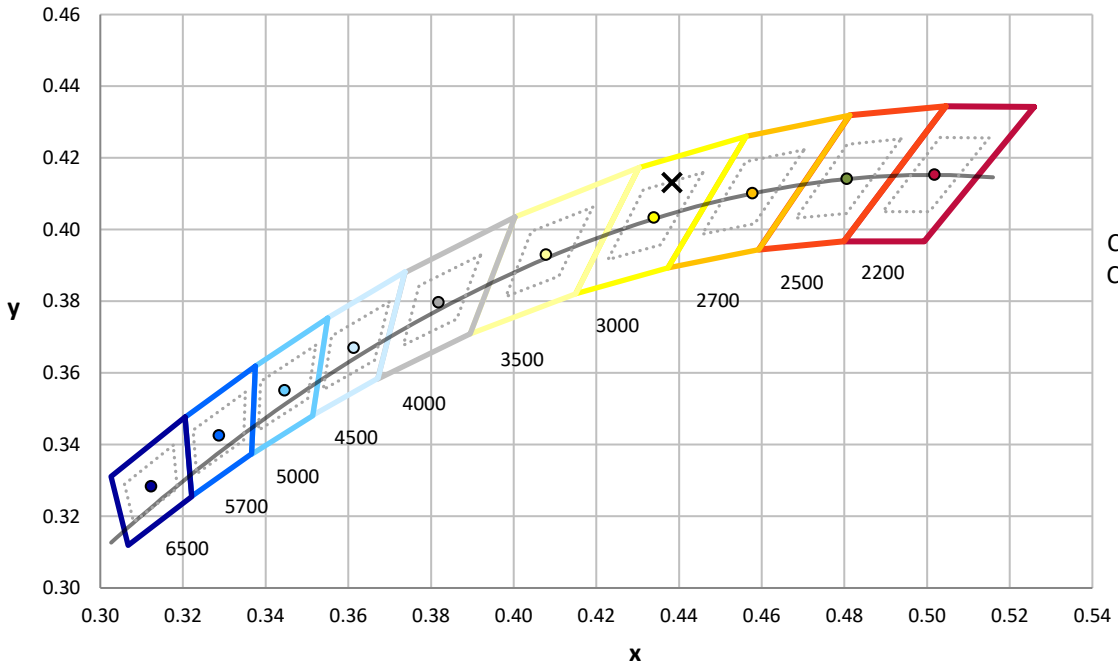
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

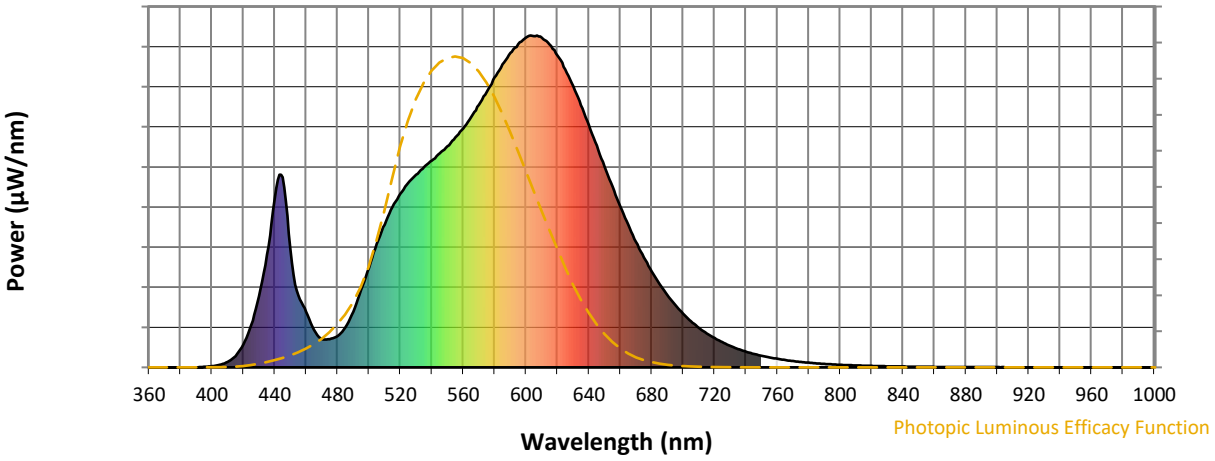


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

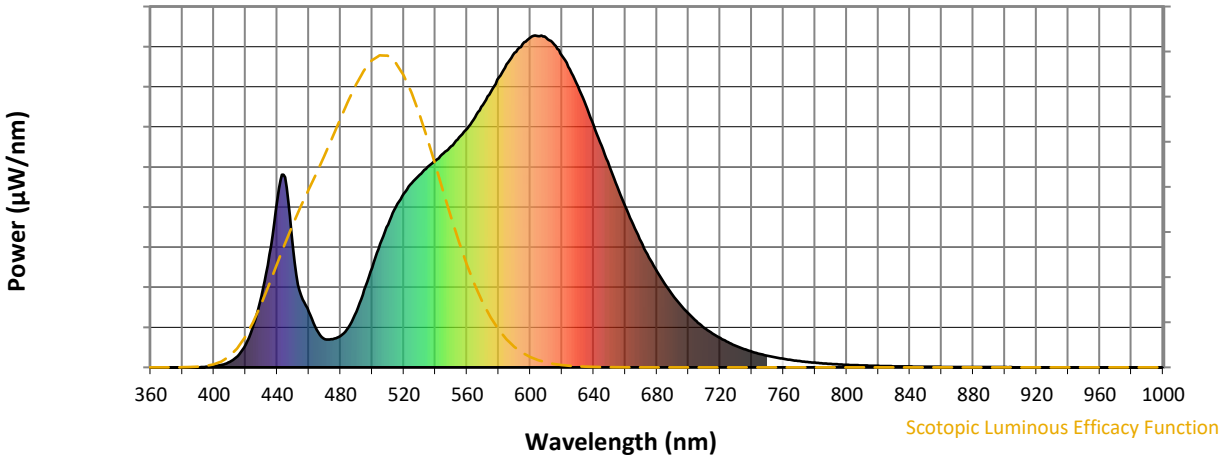


Photopic Lumens: NR

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

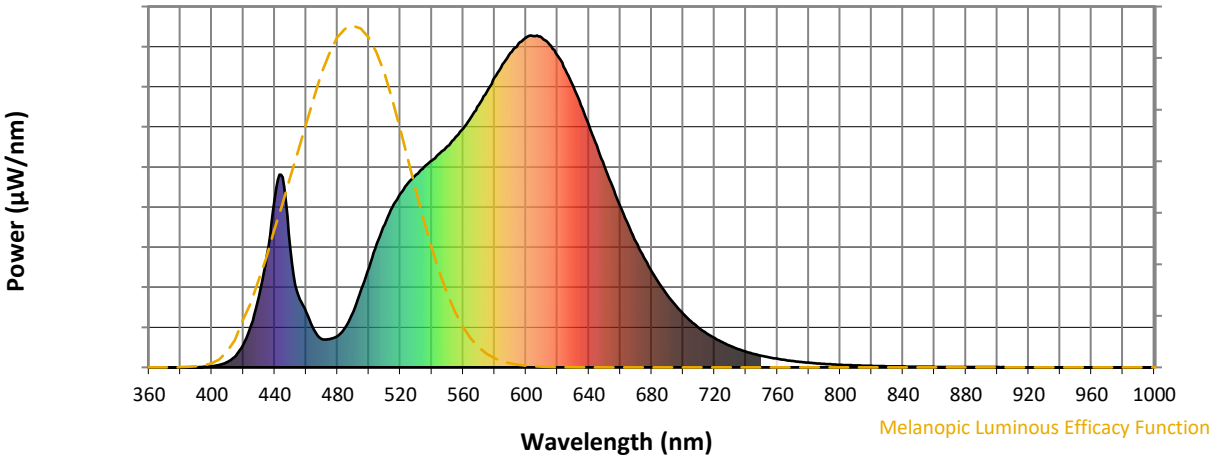


Scotopic Lumens: NR **S/P: 1.27**

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			

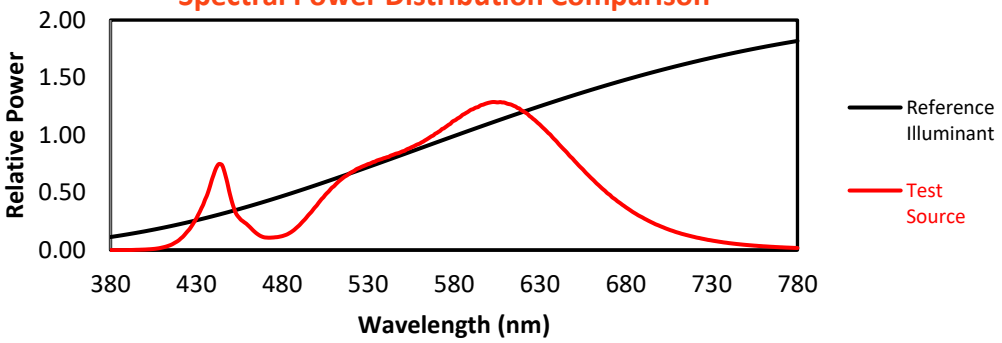
REPORT NUMBER: SP1-2408-195-9

TM-30-18

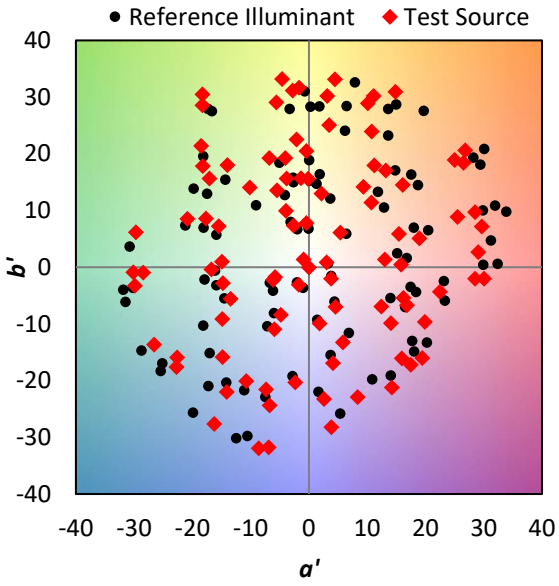
Summary

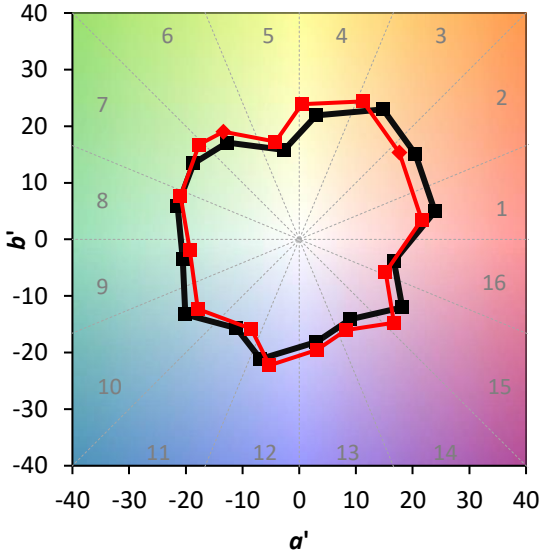
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

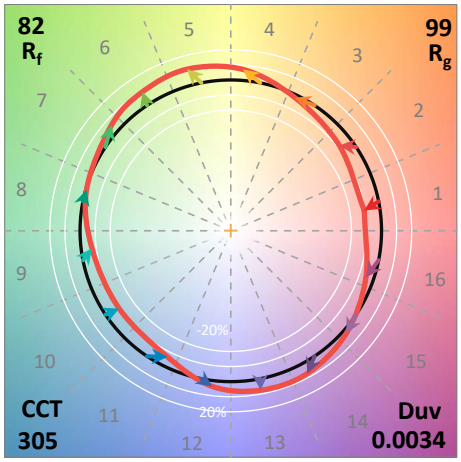
Spectral Power Distribution Comparison

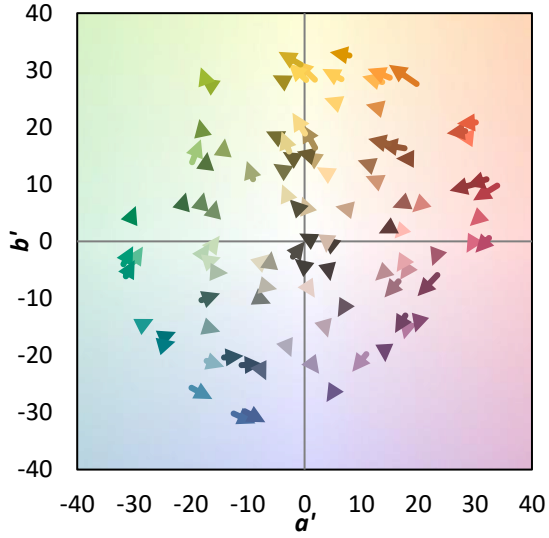


Color Vector Graphics







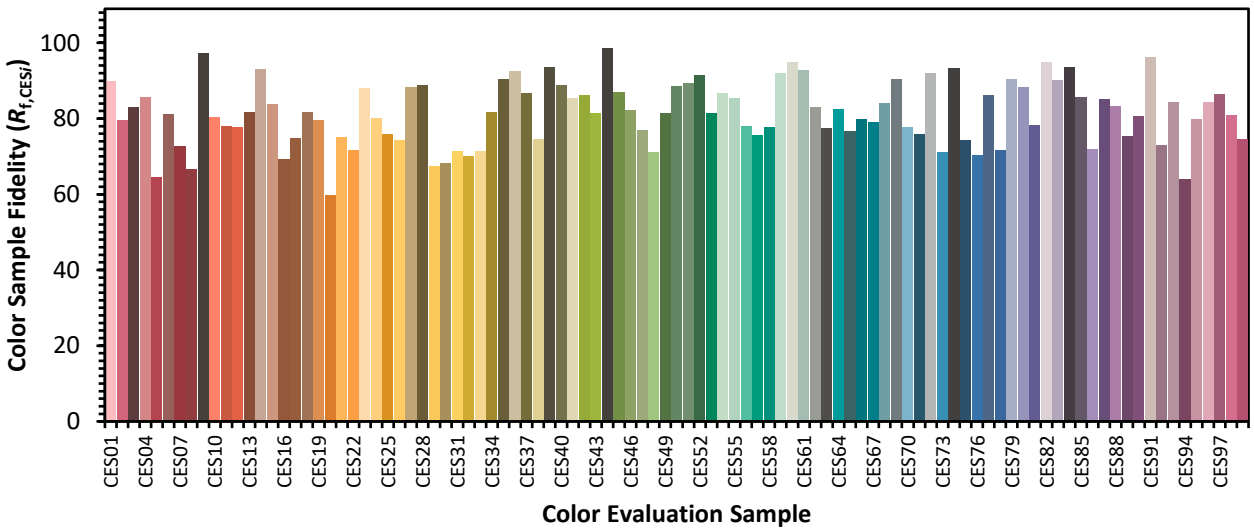


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

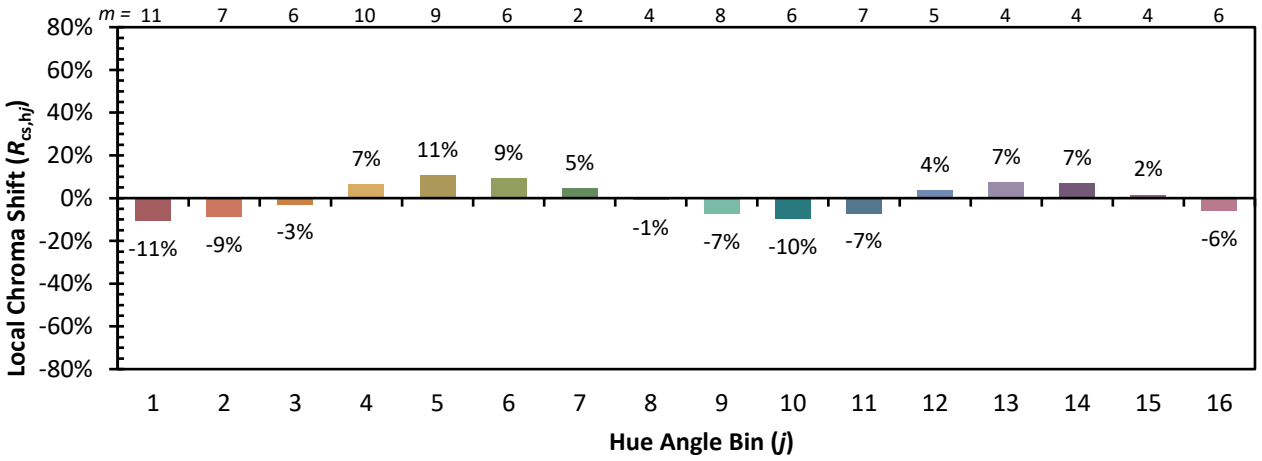
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

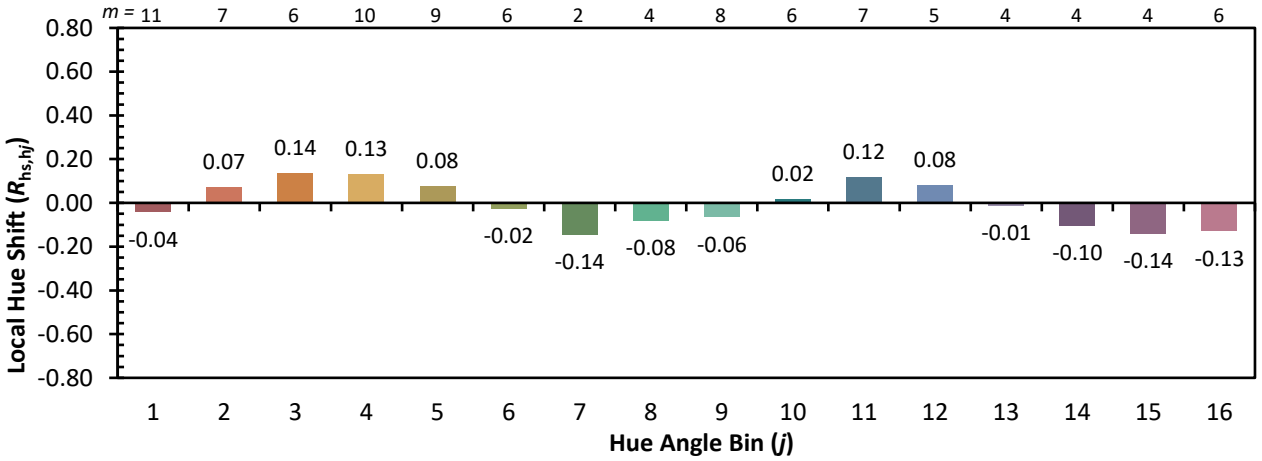


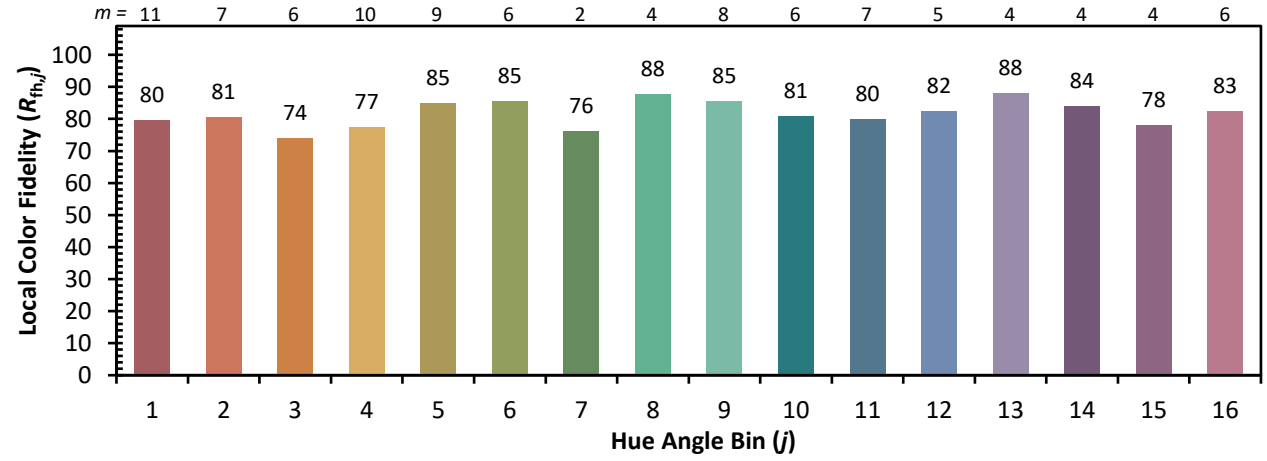
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



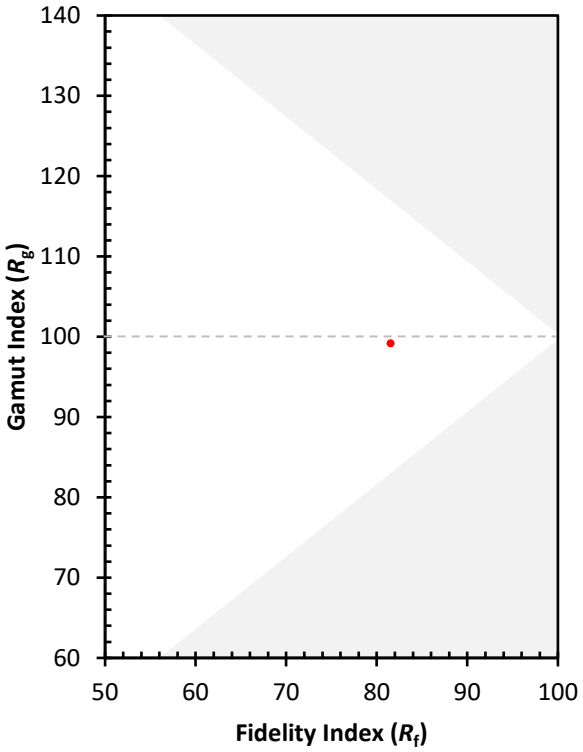


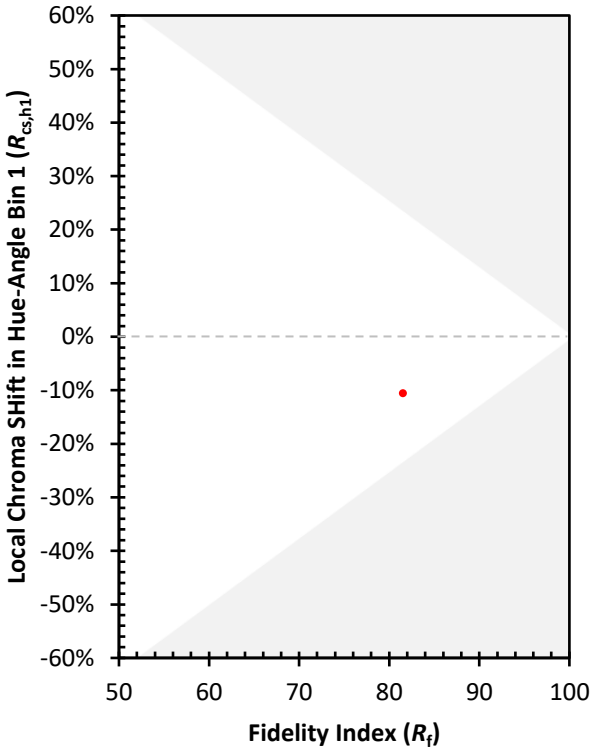


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)