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: P629565

Luminaire Tested: GWS-SA1B-830-U-SL3-W-GRSBK

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:	P629565
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-SL3-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1665.3 lumens
Efficiency:	N/A
Efficacy:	66.6 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):	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

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REPORT NUMBER: P629565
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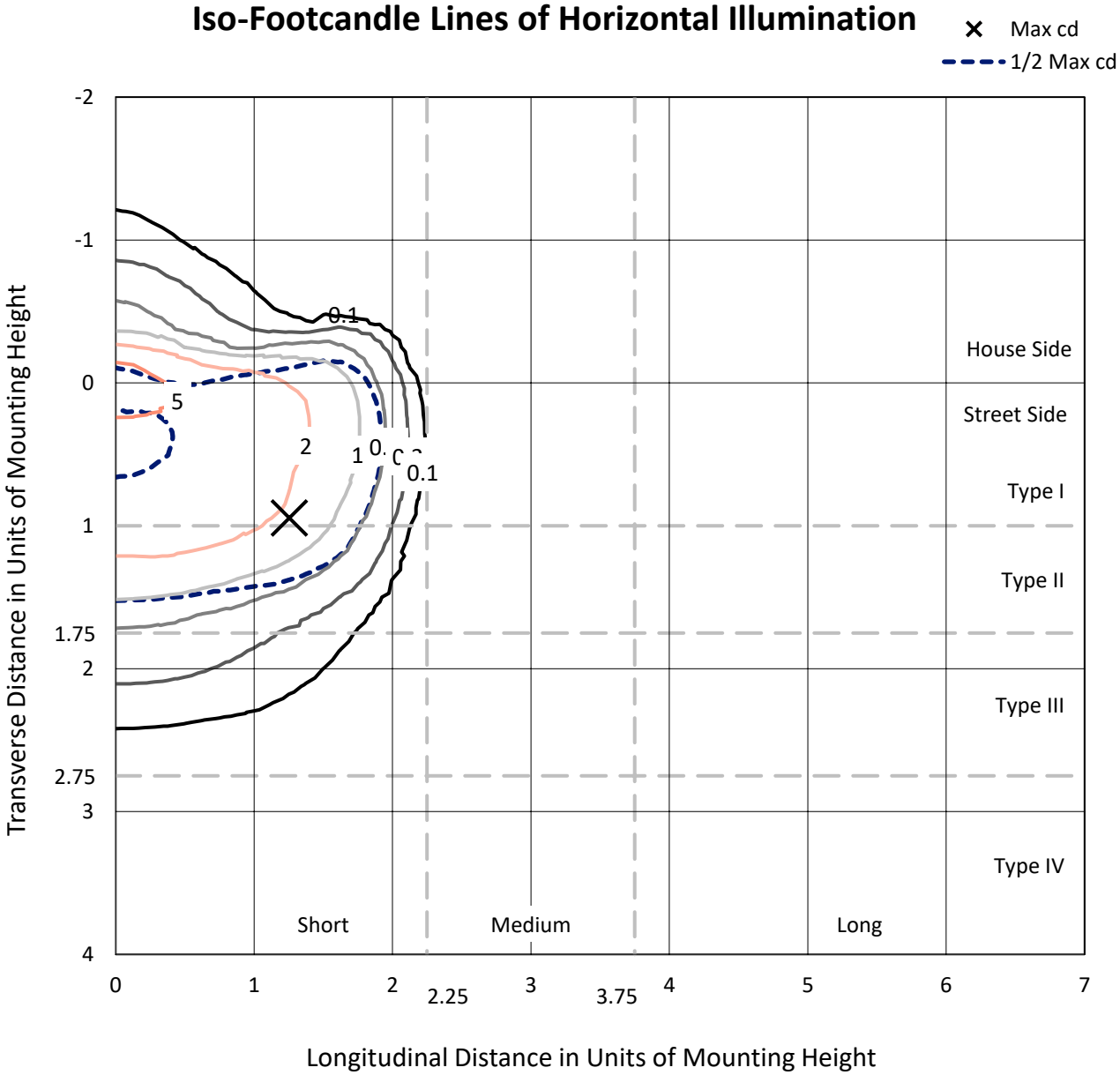
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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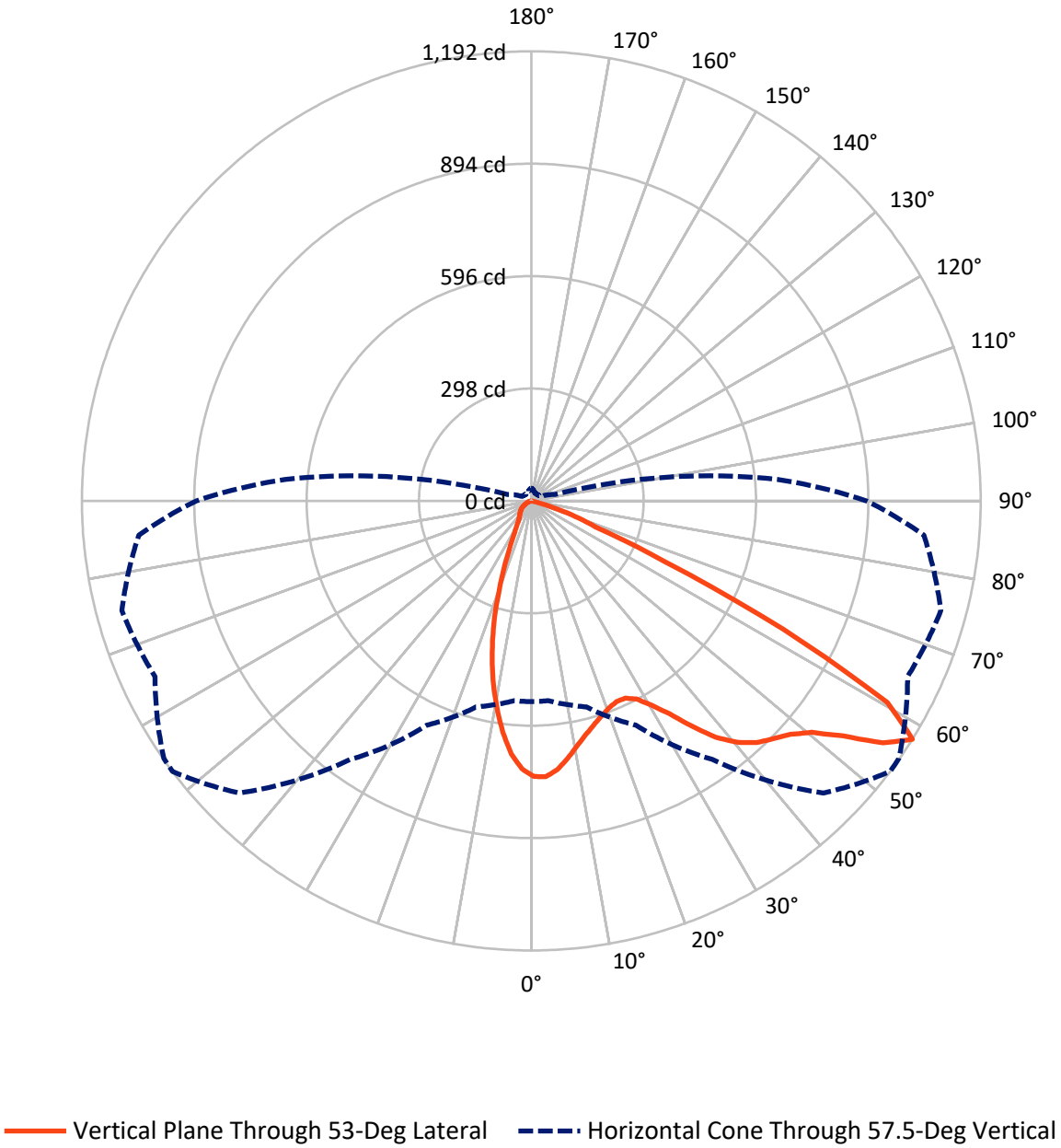
Luminous Intensity Polar Plot



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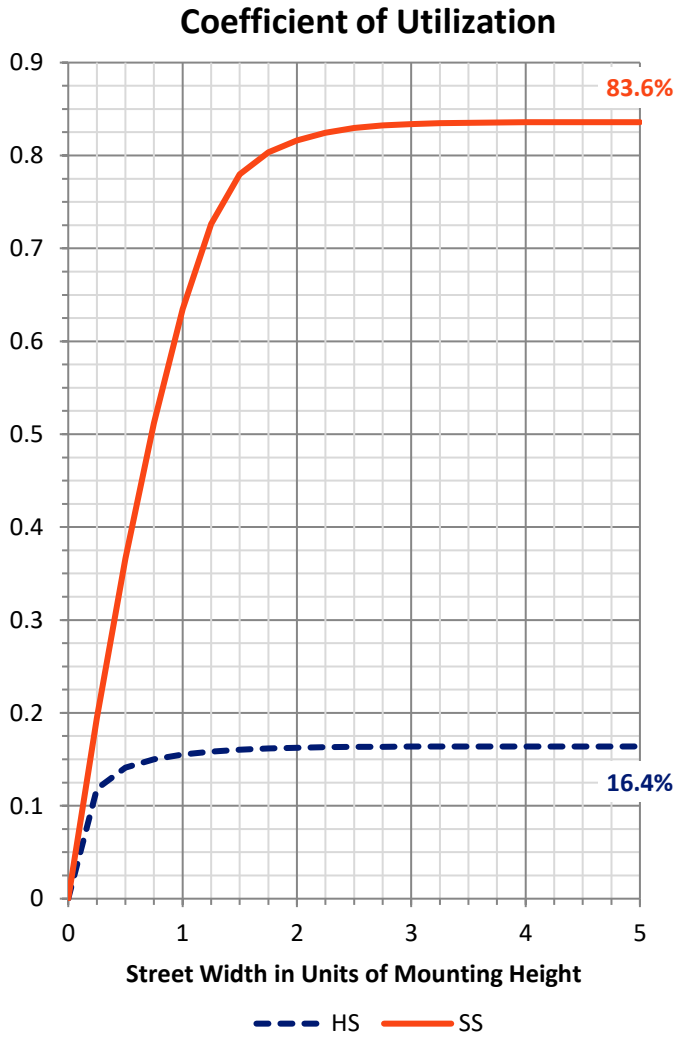
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.1	0.0	275.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	1390.2	0.0	1390.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	1665.3	0.0	1665.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	3.8
10°-20°	137.2	8.2
20°-30°	178.8	10.7
30°-40°	259.3	15.6
40°-50°	374.1	22.5
50°-60°	452.5	27.2
60°-70°	184.4	11.1
70°-80°	16.6	1.0
80°-90°	0.0	0.0
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°	1665.3	100.0
0°-180°	1665.3	100.0



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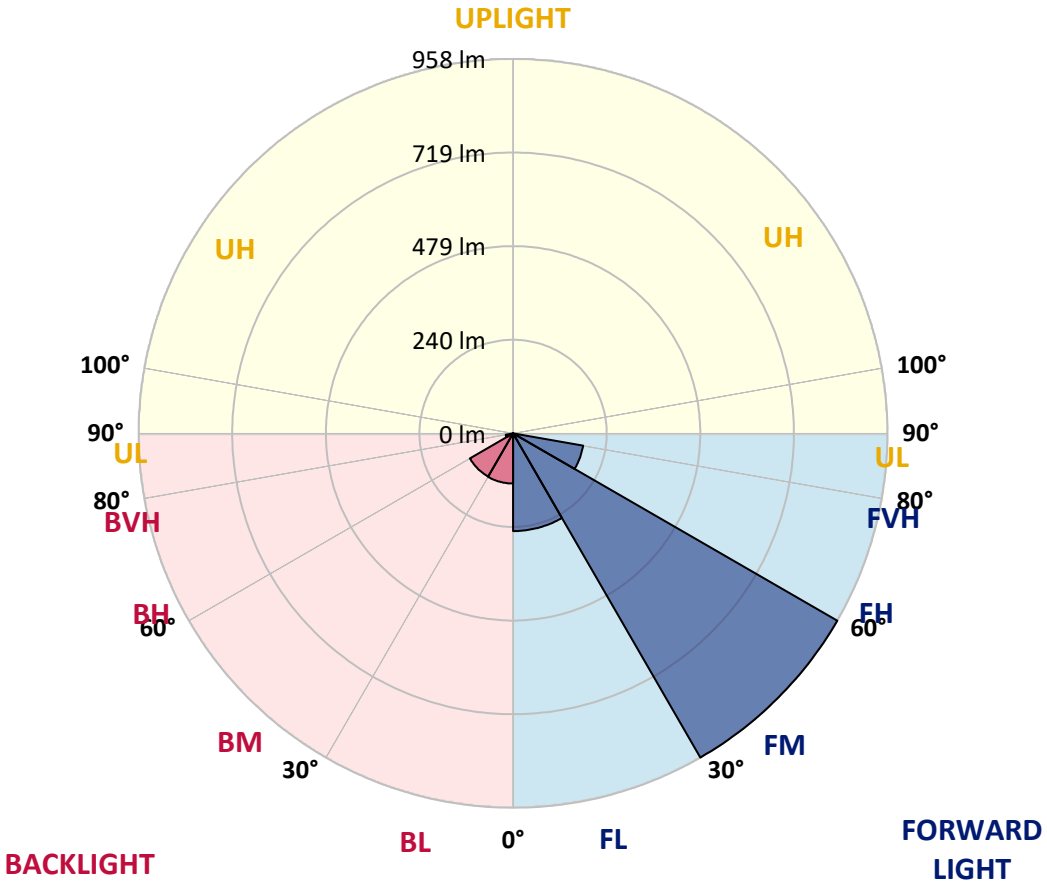
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	250.1	15.0			
FM	(30°-60°)	958.2	57.5			
FH	(60°-80°)	182.0	10.9			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	128.4	7.7	B1/500		
BM	(30°-60°)	127.7	7.7	B0/220		
BH	(60°-80°)	19.0	1.1	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
2.5°	720.3	721.9	724.8	728.5	730.9	732.1	732.1	735.6	733.4	731.5	729.5
5°	689.5	691.1	695.0	700.9	706.8	711.1	716.0	719.7	721.1	721.1	717.6
7.5°	646.0	648.2	650.7	658.9	671.7	681.3	689.7	695.0	702.7	705.2	700.3
10°	599.3	601.5	607.0	618.2	632.9	647.2	661.5	668.2	681.5	688.4	682.9
12.5°	559.7	560.7	568.0	581.5	600.3	619.9	637.2	644.2	662.9	673.3	666.8
15°	527.0	527.6	535.0	549.9	571.5	595.6	617.4	624.6	647.6	663.3	653.5
17.5°	502.3	502.5	508.8	525.0	547.6	574.4	600.3	609.1	638.9	657.8	643.1
20°	489.9	489.2	493.7	507.8	529.2	556.0	586.6	597.4	634.0	657.0	635.2
22.5°	490.1	488.6	490.5	500.5	518.6	543.7	578.0	590.3	634.4	660.5	628.4
25°	501.7	499.7	500.1	505.4	518.2	541.1	579.3	592.3	642.5	672.1	626.0
27.5°	521.3	519.0	519.0	521.7	528.6	549.5	594.6	609.5	664.4	694.8	631.1
30°	546.6	544.4	543.5	546.2	551.9	571.1	628.6	644.2	701.7	731.9	647.4
32.5°	575.6	572.9	574.4	578.0	583.5	610.1	672.5	693.1	748.5	781.9	676.8
35°	606.2	603.9	610.5	618.4	627.0	664.2	733.1	751.1	805.8	844.2	721.7
37.5°	635.4	634.4	648.0	664.8	682.5	729.1	794.8	808.7	855.0	911.9	776.6
40°	664.6	664.4	687.8	717.2	745.6	793.8	841.5	853.0	885.0	964.6	829.3
42.5°	697.2	697.2	729.7	768.9	806.6	848.5	875.8	880.9	898.5	995.0	868.9
45°	728.5	730.3	767.8	813.4	858.1	891.1	899.5	899.9	904.0	1013.0	901.7
47.5°	753.2	754.8	799.7	852.1	900.3	923.6	924.8	923.0	918.5	1030.1	927.0
50°	773.2	775.6	822.5	878.1	929.3	954.8	964.2	962.4	950.9	1048.5	944.8
52.5°	783.0	786.4	830.5	890.9	961.5	1008.3	1034.4	1038.7	999.5	1058.7	961.7
55°	704.6	709.7	750.3	833.0	979.5	1090.9	1132.0	1131.2	1052.2	1089.1	1003.0
57.5°	532.1	531.7	565.4	655.8	836.6	1095.6	1192.0	1190.3	1101.4	1124.4	1045.2
60°	362.3	359.8	368.8	412.5	585.0	892.6	1084.8	1106.9	1066.5	1038.7	887.5
62.5°	298.2	296.0	293.1	281.1	336.0	556.0	749.5	783.0	777.6	721.9	556.6
65°	244.1	245.9	253.9	248.8	233.7	285.1	389.0	408.8	373.7	314.5	194.5
67.5°	180.0	180.8	191.2	218.2	210.0	189.8	183.1	186.3	109.2	50.2	32.5
70°	106.3	107.0	116.5	152.7	170.4	145.7	123.7	121.9	43.3	13.5	14.7
72.5°	60.2	59.0	60.8	72.7	92.9	77.4	63.7	58.0	13.1	7.6	7.6
75°	28.6	27.8	23.9	22.5	20.4	13.1	8.2	6.9	3.3	3.1	3.1
77.5°	0.2	0.6	0.4	0.6	0.6	0.4	0.2	0.2	0.6	0.6	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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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CATALOG NUMBER: GWS-SA1B-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
2.5°	725.8	719.7	718.2	717.8	712.1	706.0	699.7	697.2	693.6	691.3	693.1
5°	712.1	703.3	695.6	688.4	675.8	661.9	649.9	642.1	634.8	629.9	631.1
7.5°	692.7	681.3	663.5	645.4	622.1	601.3	578.0	563.7	550.5	543.1	546.6
10°	672.1	657.0	628.6	597.8	561.3	528.6	495.4	468.2	452.5	437.6	439.2
12.5°	651.9	631.9	589.5	542.7	496.6	448.4	398.2	360.7	334.9	316.4	313.5
15°	633.1	607.4	551.3	489.7	426.8	362.7	298.6	244.9	215.1	196.8	195.5
17.5°	616.4	584.6	511.7	434.1	355.3	273.3	199.6	159.4	142.3	134.3	133.5
20°	600.3	561.5	471.3	377.8	277.4	191.9	137.8	119.2	113.7	110.4	110.8
22.5°	584.8	536.4	428.8	315.3	208.0	134.7	106.7	99.6	99.0	99.4	99.6
25°	571.7	513.3	385.1	255.1	148.4	102.7	89.2	87.2	89.0	91.6	92.1
27.5°	565.0	494.5	342.5	194.5	107.4	83.5	77.4	78.2	81.4	84.3	84.7
30°	566.8	480.5	298.4	141.0	82.7	70.4	68.4	70.0	73.3	75.9	76.3
32.5°	579.9	473.3	253.3	102.7	68.0	61.4	60.6	61.8	64.7	66.7	66.9
35°	605.8	475.0	210.4	78.6	58.4	54.7	54.5	55.3	56.7	58.2	58.4
37.5°	644.0	488.2	168.2	65.3	52.9	50.2	49.4	49.4	50.4	51.0	51.4
40°	685.0	508.2	134.7	57.8	49.0	46.1	44.5	43.9	44.7	45.5	45.7
42.5°	718.9	528.2	109.4	52.5	45.9	42.0	40.0	39.6	40.6	42.0	42.5
45°	744.8	543.7	91.2	48.2	42.5	38.2	35.9	35.9	37.8	40.2	40.6
47.5°	768.5	556.2	77.8	44.3	39.2	34.7	32.5	32.9	35.9	39.2	39.8
50°	784.6	566.2	67.8	40.8	36.5	31.8	29.8	30.6	34.3	38.2	38.8
52.5°	801.9	578.4	61.2	37.8	34.1	29.6	27.8	28.4	32.5	36.7	37.6
55°	849.9	619.5	61.0	33.7	29.8	26.5	25.7	25.9	30.0	34.9	35.9
57.5°	*889.1*	*655.6*	*65.1*	*28.4*	*24.9*	*23.3*	*22.9*	*23.1*	*26.7*	*32.2*	*33.5*
60°	735.6	509.4	53.9	23.5	20.8	20.4	19.8	20.2	23.7	28.6	29.6
62.5°	435.4	291.3	25.7	18.0	17.8	17.3	16.7	17.6	20.8	25.1	25.7
65°	148.8	86.3	16.3	14.7	15.1	14.5	13.9	14.7	17.6	20.0	20.2
67.5°	28.6	22.9	13.1	12.2	12.5	11.2	11.0	11.8	13.5	13.9	13.7
70°	14.9	13.3	10.0	10.0	9.6	8.0	8.0	8.8	8.8	8.2	8.0
72.5°	7.8	7.3	6.5	7.3	6.1	4.9	4.9	5.3	4.9	4.1	4.1
75°	3.1	3.1	2.9	3.7	2.7	2.2	2.0	2.4	1.8	1.4	1.4
77.5°	0.8	0.8	0.8	1.0	0.6	0.6	0.4	0.4	0.2	0.0	0.0
80°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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

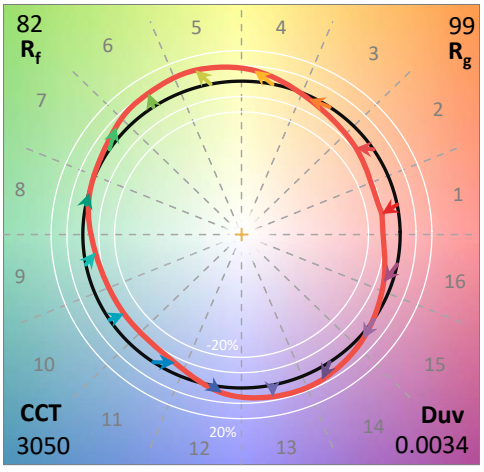
Test Information

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

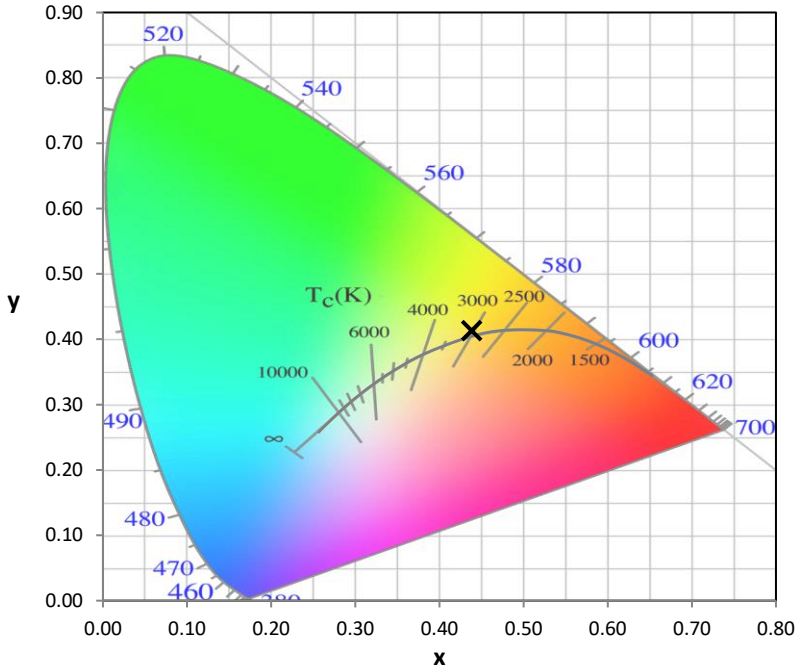
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

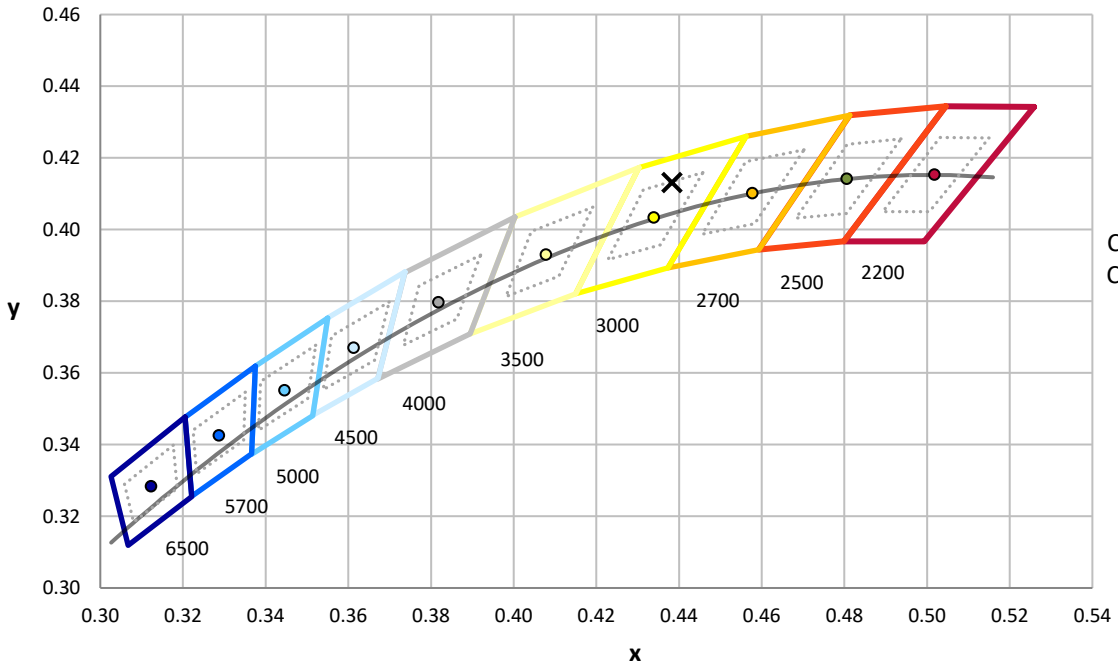
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

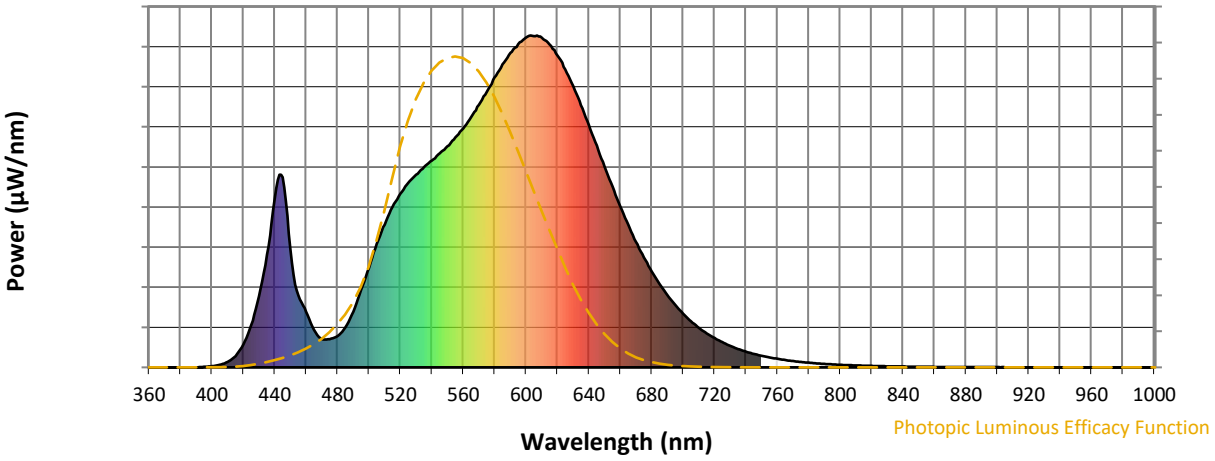


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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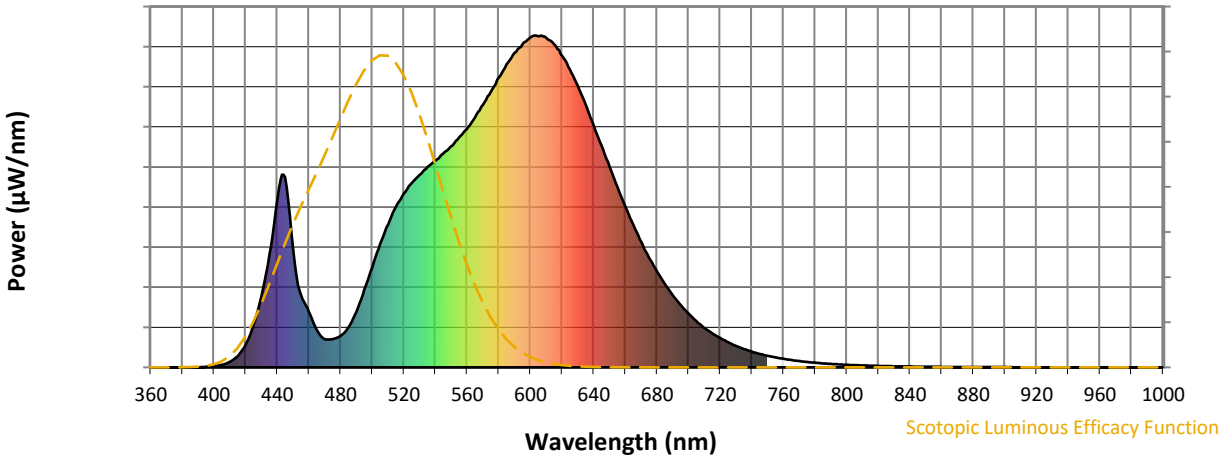
Scotopic Flux vs. Wavelength



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			

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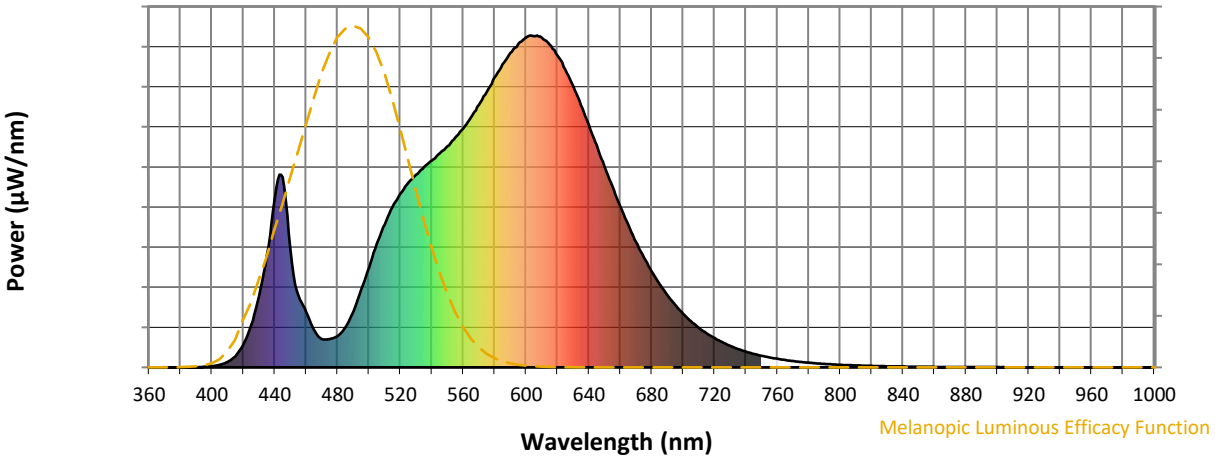
Melanopic Flux vs. Wavelength



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			

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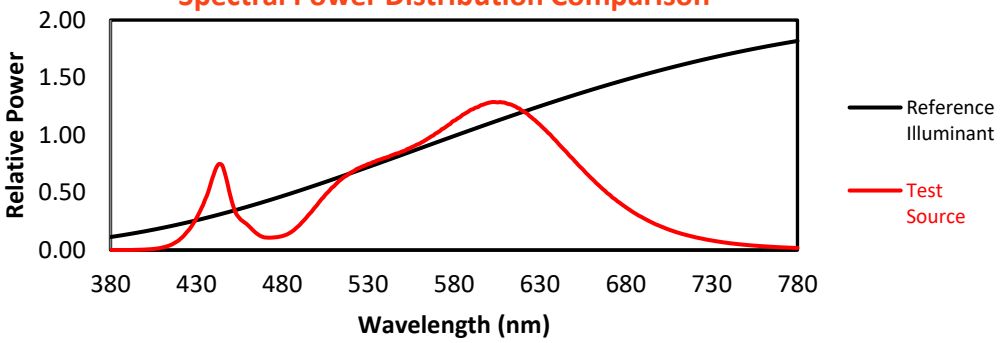
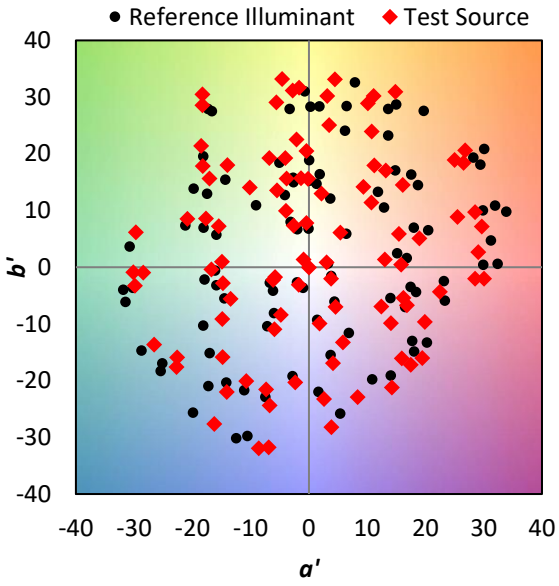
Summary

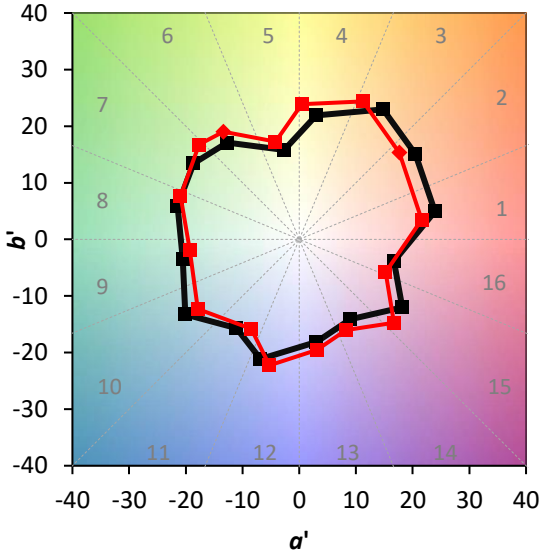
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

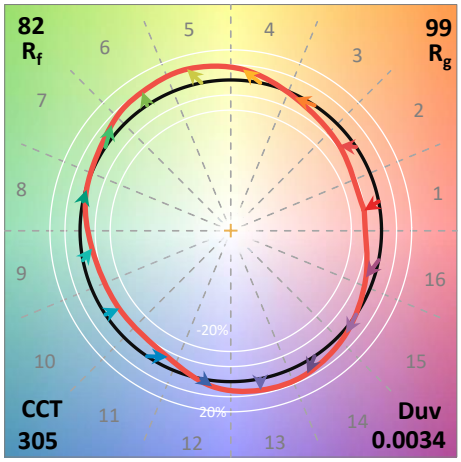
Spectral Power Distribution Comparison

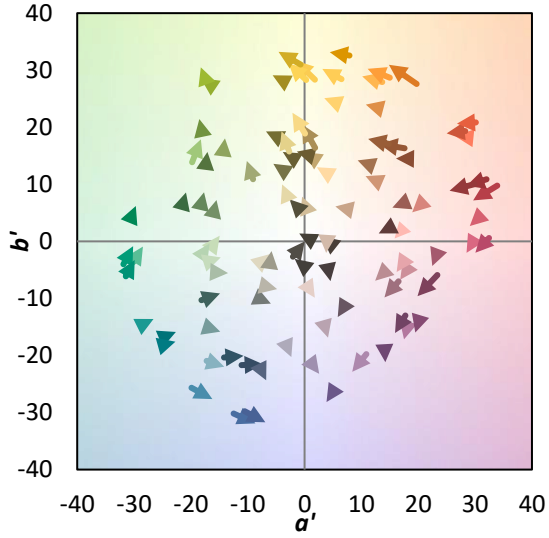


Color Vector Graphics









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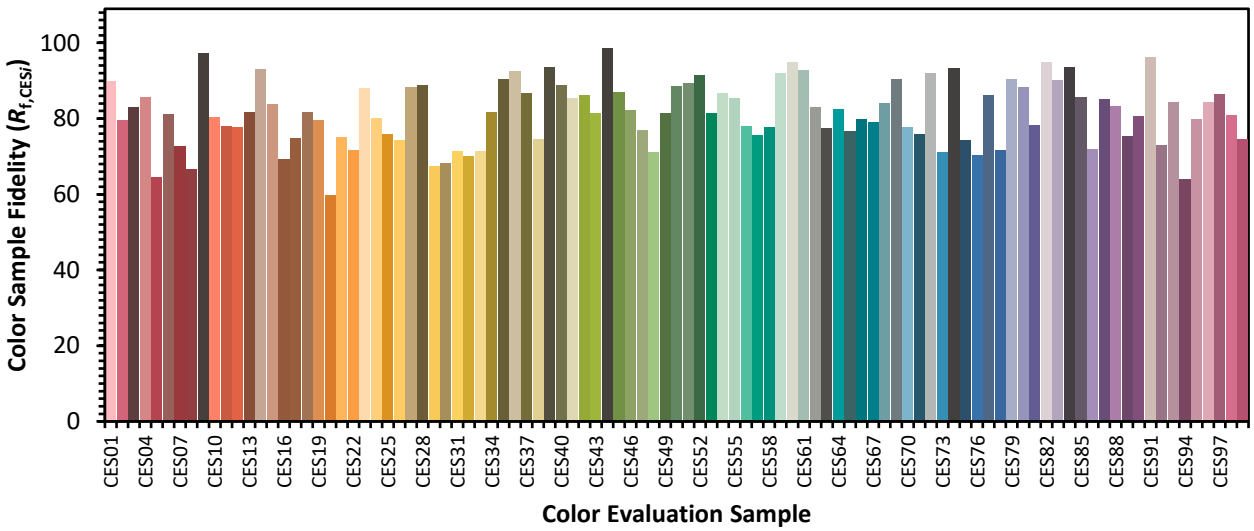
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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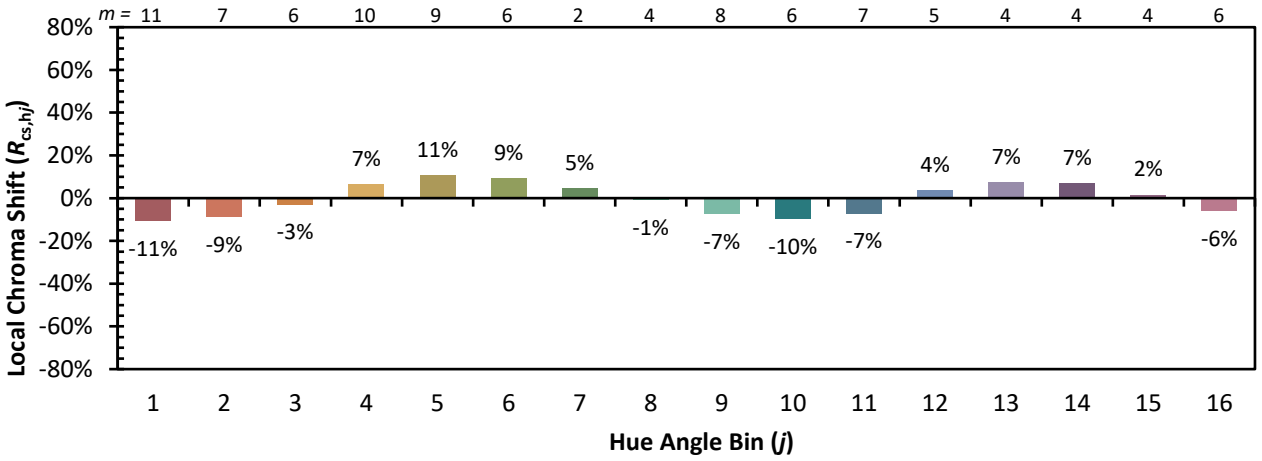
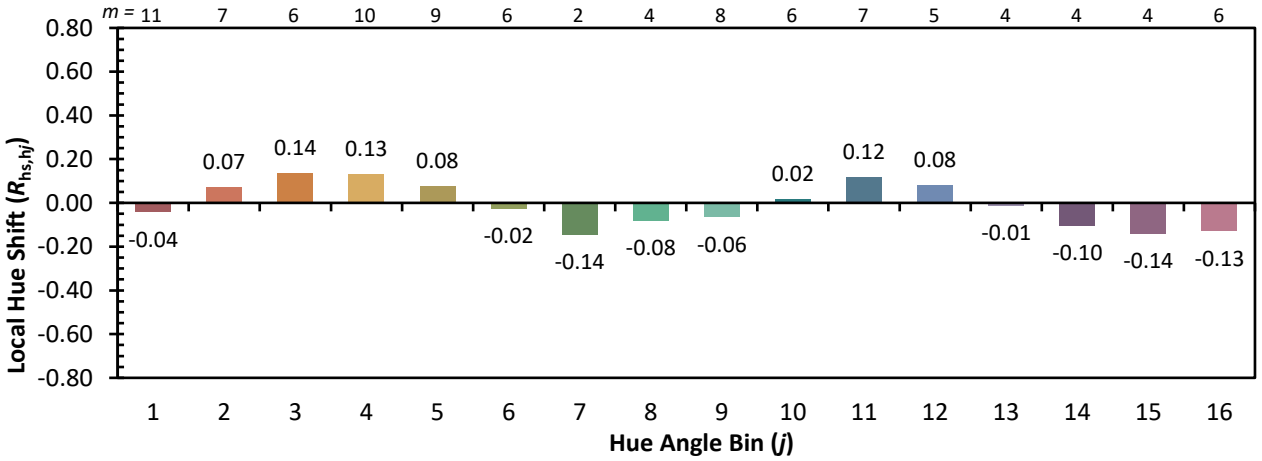
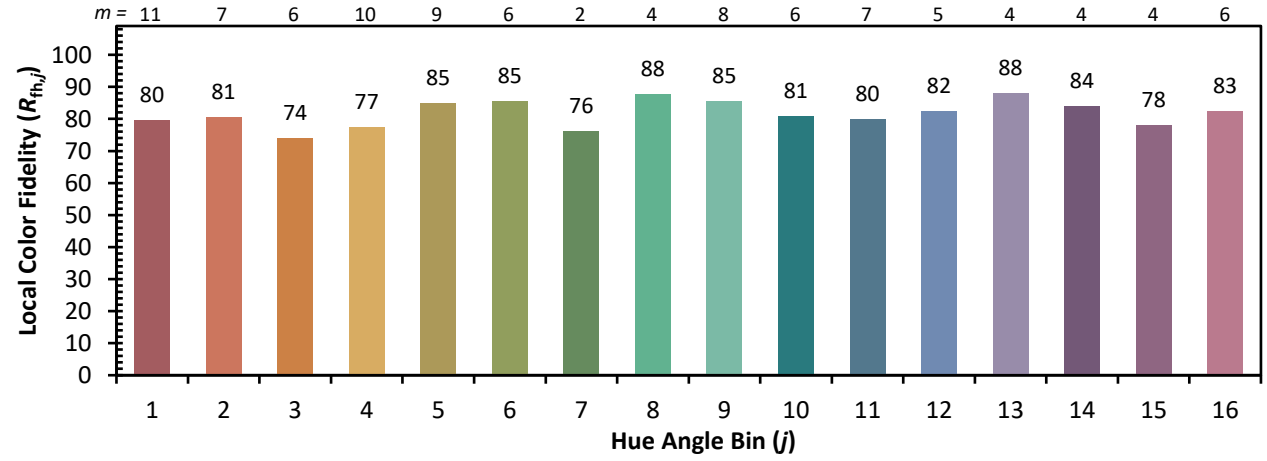
Color Rendition by Hue-Angle Bin







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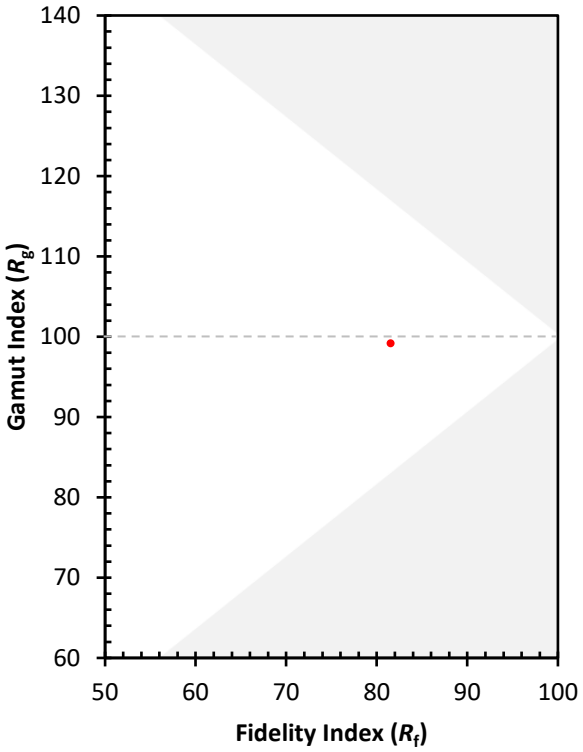
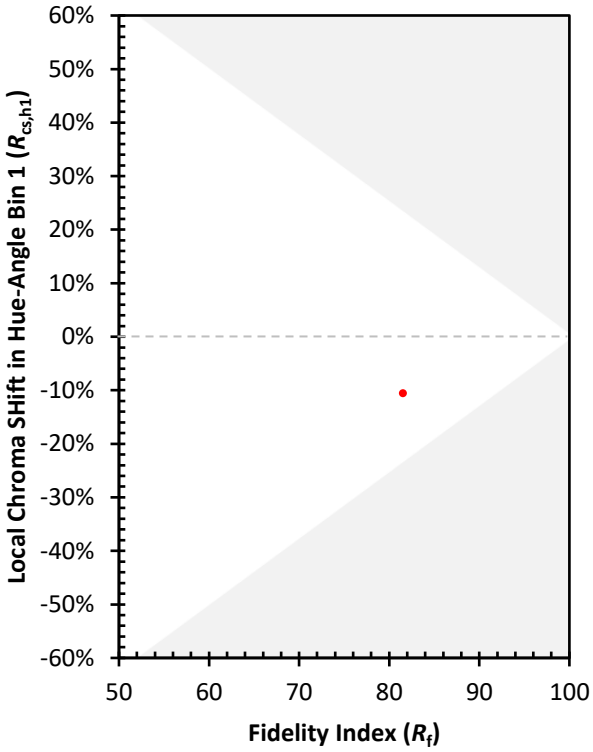
Measure Comparisons





(END OF REPORT)