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: P629099

Luminaire Tested: GWS-SA1A-830-U-T3R-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:	P629099
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1768.4 lumens
Efficiency:	N/A
Efficacy:	89.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B0 - U0 - G1

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: P629099
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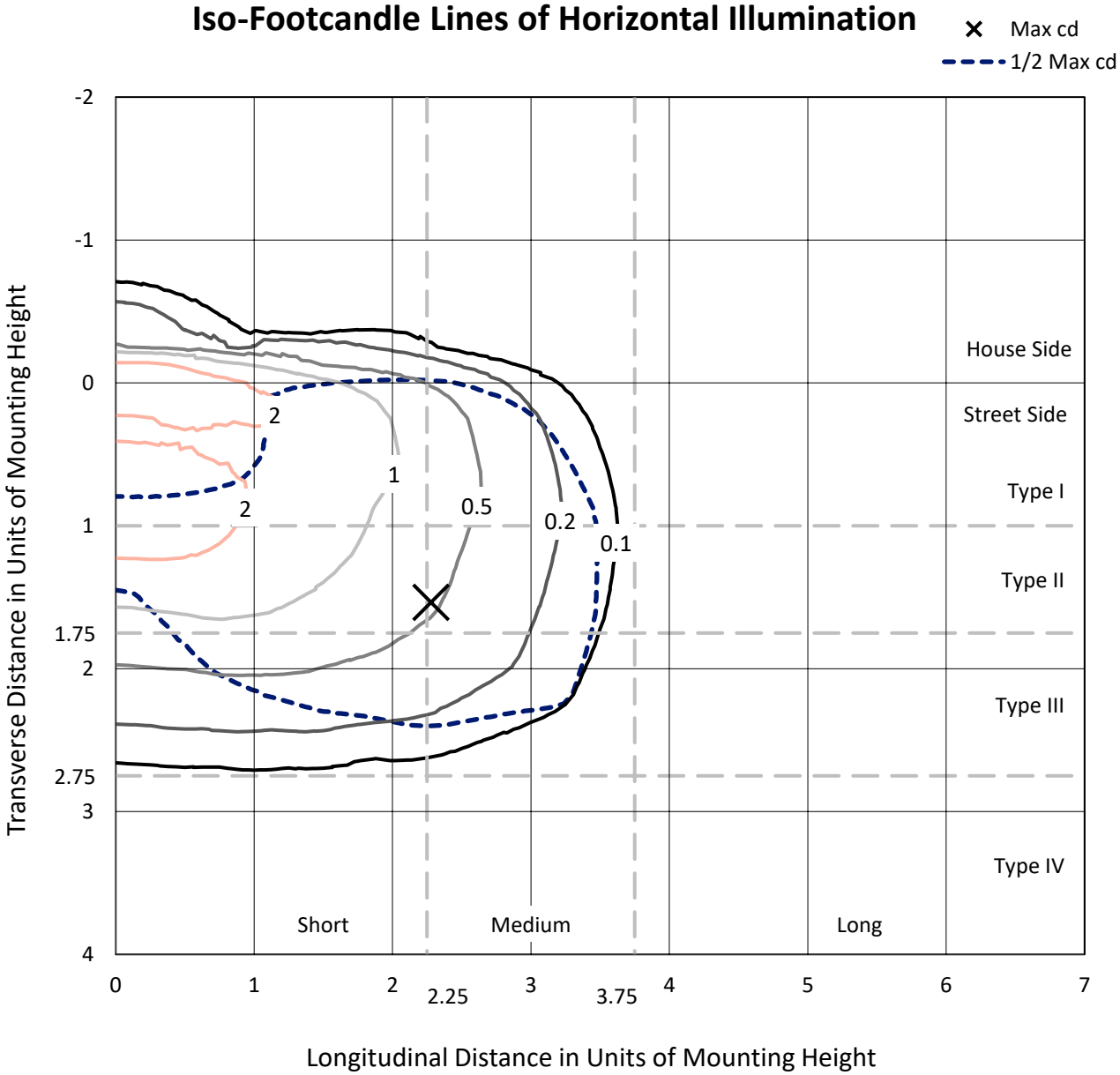
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Medium - N/A

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REPORT NUMBER: P629099
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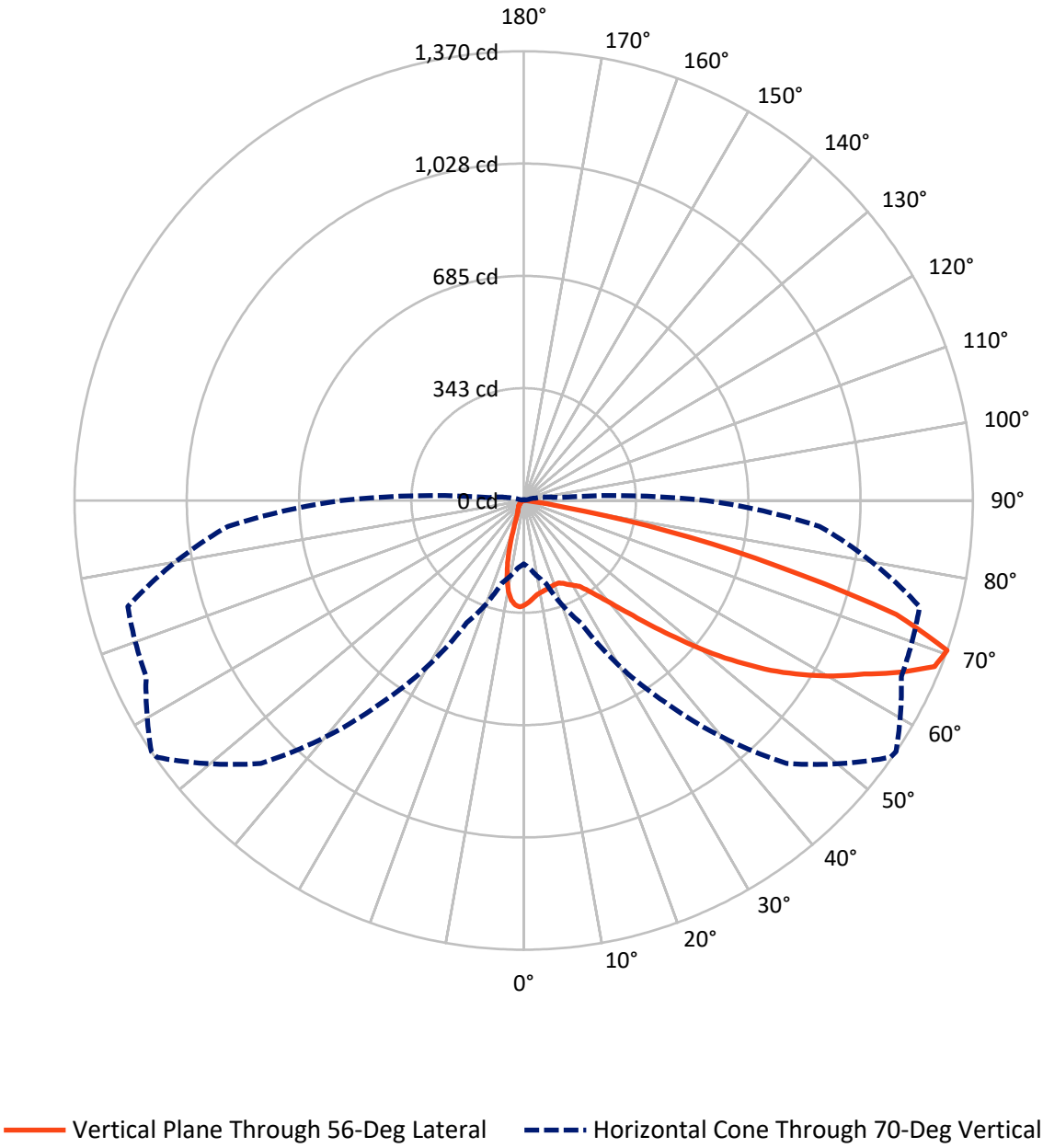
Luminous Intensity Polar Plot



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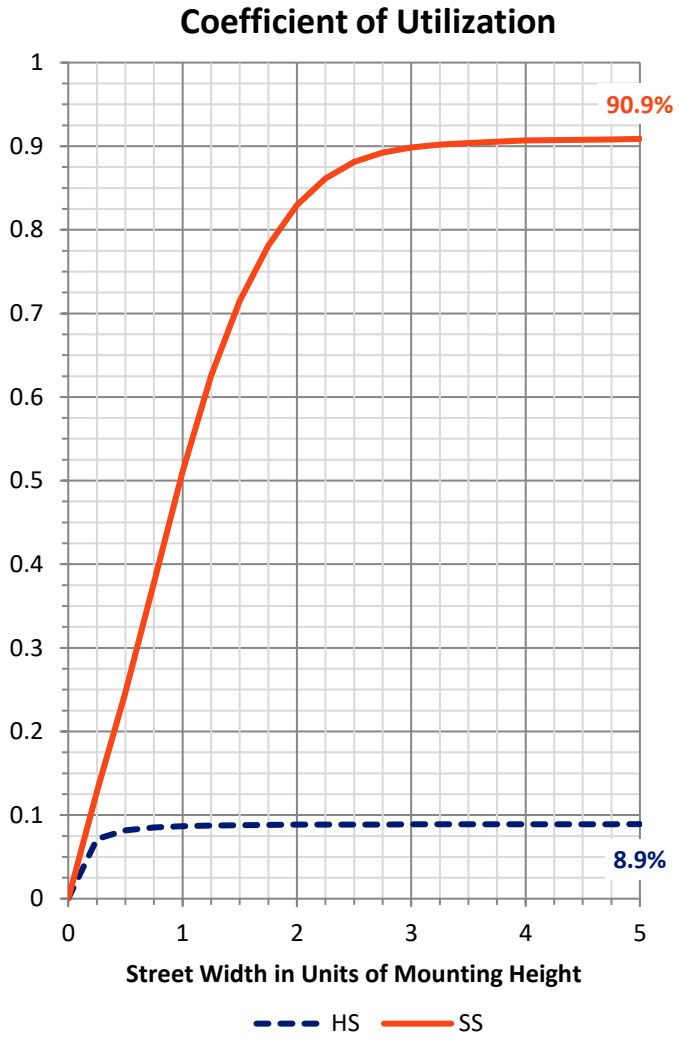
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	158.8	0.0	158.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	1609.6	0.0	1609.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	1768.4	0.0	1768.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	1.5
10°-20°	61.6	3.5
20°-30°	97.5	5.5
30°-40°	168.2	9.5
40°-50°	284.0	16.1
50°-60°	417.3	23.6
60°-70°	494.8	28.0
70°-80°	211.0	11.9
80°-90°	6.6	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°	1768.4	100.0
0°-180°	1768.4	100.0



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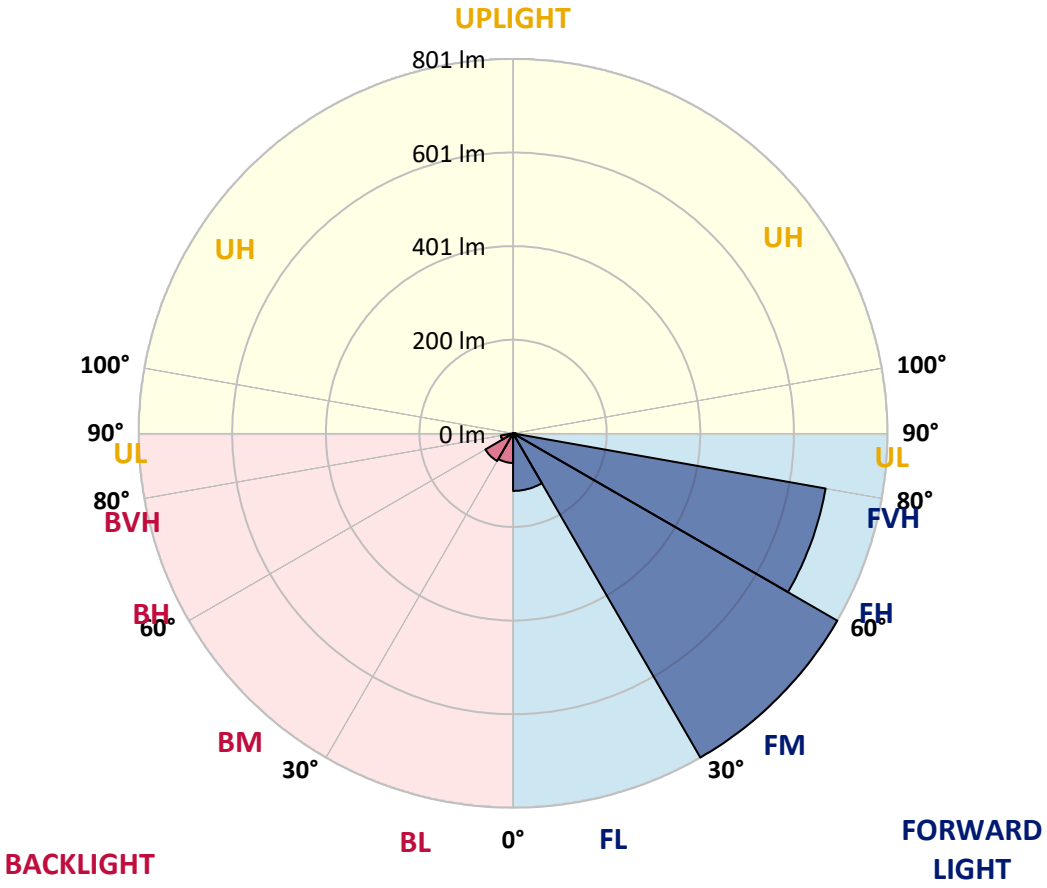
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	123.2	7.0			
FM	(30°-60°)	801.1	45.3			
FH	(60°-80°)	679.3	38.4			G1/1800
FVH	(80°-90°)	5.9	0.3			G0/10
BL	(0°-30°)	63.3	3.6	B0/110		
BM	(30°-60°)	68.4	3.9	B0/220		
BH	(60°-80°)	26.5	1.5	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			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 III Medium



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REPORT NUMBER: P629099
CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9
2.5°	296.8	296.4	296.7	299.1	303.6	305.7	309.3	310.0	312.9	316.6	318.1
5°	277.6	275.9	276.8	280.2	285.3	291.2	297.8	299.6	306.9	315.1	321.3
7.5°	259.9	258.1	260.1	265.4	272.7	279.0	288.9	290.0	301.7	316.3	327.4
10°	232.2	232.7	236.6	246.0	257.2	270.3	283.6	285.2	299.6	320.0	337.3
12.5°	211.0	209.9	214.1	224.8	240.5	259.6	279.5	281.6	299.8	325.7	350.0
15°	201.1	200.8	202.6	210.4	225.6	248.1	275.8	278.5	301.9	330.8	361.9
17.5°	201.5	201.0	200.8	205.3	216.7	239.5	271.7	275.3	303.6	336.5	374.6
20°	215.5	213.3	209.2	207.1	213.9	234.0	269.0	273.0	306.2	342.5	388.0
22.5°	245.0	245.8	235.0	223.6	220.4	234.7	268.7	273.4	311.9	351.9	404.5
25°	304.0	302.7	282.6	257.2	239.5	242.1	274.3	280.0	323.1	365.3	420.1
27.5°	377.8	378.9	351.4	310.9	274.0	257.5	284.7	290.4	336.0	373.8	430.4
30°	458.3	457.2	427.7	382.8	322.9	283.1	295.1	300.1	342.5	378.3	441.1
32.5°	534.4	531.8	502.7	455.7	385.3	323.4	309.3	312.2	351.1	388.2	455.5
35°	599.3	599.2	573.8	523.7	449.4	373.9	333.8	336.2	367.1	403.9	476.8
37.5°	666.4	664.1	635.6	589.9	515.3	429.3	371.2	370.2	392.4	427.0	502.8
40°	721.4	720.0	698.1	654.2	583.8	490.5	416.5	413.6	422.3	459.1	539.1
42.5°	762.3	762.4	755.6	728.9	656.3	561.3	473.5	469.0	468.8	507.5	587.0
45°	793.2	795.3	805.5	801.4	742.0	643.7	546.5	541.9	533.9	570.4	641.9
47.5°	807.6	810.3	841.1	857.3	817.0	725.5	633.5	623.6	608.1	653.9	703.3
50°	806.1	811.0	853.9	903.1	885.0	808.4	728.2	723.5	698.1	742.3	764.0
52.5°	773.1	783.5	854.7	931.0	937.3	884.8	826.2	817.5	805.2	834.6	821.0
55°	683.4	696.0	820.6	939.9	978.1	951.6	922.1	915.0	894.6	921.8	870.8
57.5°	634.6	645.5	748.6	935.5	1012.8	1013.3	1007.4	1001.6	984.8	1007.9	929.1
60°	605.3	616.2	710.3	919.5	1044.2	1078.4	1087.6	1086.9	1062.7	1105.9	997.4
62.5°	562.4	577.3	670.3	877.9	1066.5	1142.5	1170.3	1166.0	1138.9	1207.9	1065.1
65°	475.8	488.7	588.3	809.2	1053.4	1195.6	1260.1	1262.3	1231.1	1303.9	1118.5
67.5°	333.6	343.2	442.1	665.1	964.4	1213.1	1351.9	1351.7	1298.4	1353.2	1094.9
70°	193.4	206.5	261.2	411.2	750.3	1133.6	1365.6	1370.3	1271.1	1250.3	906.1
72.5°	74.8	85.7	148.0	218.5	391.2	868.3	1174.7	1188.5	1063.8	964.5	630.6
75°	22.3	24.9	69.6	116.3	157.1	419.4	795.3	799.2	729.7	601.6	323.2
77.5°	16.7	18.5	30.4	58.8	55.1	127.1	411.5	449.4	387.4	214.9	89.1
80°	11.3	13.4	21.7	28.7	20.4	33.8	115.6	127.0	118.2	48.3	22.3
82.5°	5.0	6.5	15.4	14.4	7.4	9.7	35.6	37.9	24.5	14.6	7.8
85°	0.5	0.6	5.8	6.3	2.8	2.3	7.4	7.4	5.3	5.0	3.2
87.5°	0.0	0.0	0.2	0.3	0.3	0.5	0.6	0.8	1.0	1.3	1.6
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: P629099
CATALOG NUMBER: GWS-SA1A-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9
2.5°	321.8	319.8	322.3	324.2	324.7	321.1	319.0	315.9	315.3	315.5	314.6
5°	326.1	325.2	327.0	324.9	319.3	309.0	300.1	290.2	284.9	281.8	281.5
7.5°	334.2	333.8	331.8	322.3	305.1	282.1	259.9	238.2	224.8	219.9	219.1
10°	346.2	345.3	337.3	314.6	278.1	233.8	196.6	165.5	146.6	141.0	134.2
12.5°	360.0	358.0	340.7	298.3	237.2	176.0	129.6	94.7	78.4	73.5	73.5
15°	373.3	369.1	338.8	271.2	187.0	114.5	72.4	54.7	49.7	48.4	48.4
17.5°	386.9	378.8	331.2	234.3	129.2	67.7	48.3	44.9	44.2	44.4	44.5
20°	399.7	387.0	317.7	190.0	82.4	47.3	43.2	42.4	42.1	42.4	42.3
22.5°	413.6	394.6	297.3	141.5	53.6	42.6	41.1	40.5	40.2	40.6	40.6
25°	427.4	400.2	270.3	95.2	42.6	39.7	38.9	38.2	37.9	38.1	38.1
27.5°	434.5	398.0	234.8	60.7	38.2	36.8	36.0	35.1	34.7	34.5	34.7
30°	439.3	391.6	191.4	43.2	34.7	32.9	32.1	31.4	30.1	29.3	29.6
32.5°	447.0	385.1	144.3	36.3	31.7	29.0	27.7	26.1	24.3	23.5	23.5
35°	456.0	376.2	101.2	32.7	28.7	25.7	23.3	20.6	18.5	17.8	17.8
37.5°	468.0	367.8	67.4	30.3	26.1	23.0	19.6	16.4	14.1	13.8	13.6
40°	486.0	360.6	47.4	28.5	23.8	20.1	16.0	12.6	11.0	10.5	10.5
42.5°	509.3	353.4	37.6	26.7	21.9	17.3	12.8	10.0	8.7	8.4	8.3
45°	538.1	344.8	32.7	25.1	19.9	14.4	10.2	8.4	7.4	7.1	7.1
47.5°	569.4	333.1	30.4	23.0	17.7	11.7	8.6	7.3	6.8	6.6	6.5
50°	600.2	317.4	28.5	21.1	15.1	9.6	7.4	6.6	6.3	6.2	6.2
52.5°	627.0	299.1	26.1	18.8	12.3	8.3	6.6	6.2	5.8	5.5	5.3
55°	650.0	279.2	23.0	16.2	10.0	7.3	6.2	5.7	5.3	5.0	4.9
57.5°	679.7	267.8	18.5	13.1	8.3	6.5	5.7	5.2	4.9	4.4	4.4
60°	712.5	259.6	13.8	10.4	7.1	6.0	5.2	4.7	4.4	3.9	3.9
62.5°	738.9	247.3	10.8	8.4	6.2	5.3	4.7	4.2	3.9	3.4	3.4
65°	749.0	221.9	8.9	6.6	5.0	4.7	4.2	3.9	3.4	2.9	2.9
67.5°	703.6	171.0	7.4	5.3	4.2	4.0	3.7	3.6	2.9	2.6	2.4
70°	*557.2*	*104.3*	*6.2*	*4.4*	*3.6*	*3.4*	*3.4*	*3.1*	*2.6*	*2.4*	*2.3*
72.5°	381.9	53.8	5.0	3.6	3.1	3.1	2.9	2.8	2.4	2.3	2.3
75°	198.4	18.0	3.9	2.8	2.4	2.6	2.6	2.4	2.3	2.3	2.1
77.5°	56.8	8.1	2.9	2.1	1.9	1.9	2.1	2.1	2.1	1.9	1.9
80°	14.7	4.7	2.1	1.6	1.6	1.6	1.6	1.8	1.9	1.8	1.8
82.5°	6.0	2.6	1.5	1.3	1.3	1.3	1.3	1.5	1.6	1.6	1.6
85°	3.7	1.3	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.3	1.3
87.5°	2.3	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.8	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

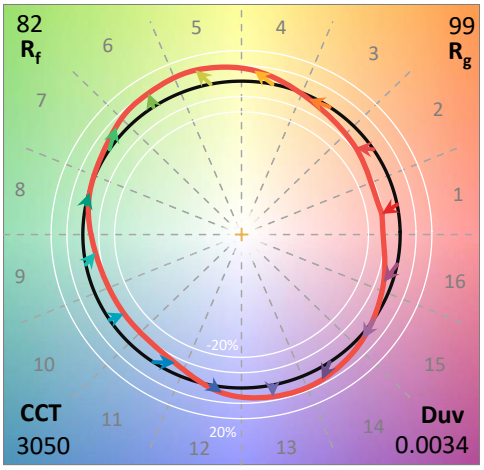
Test Information

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

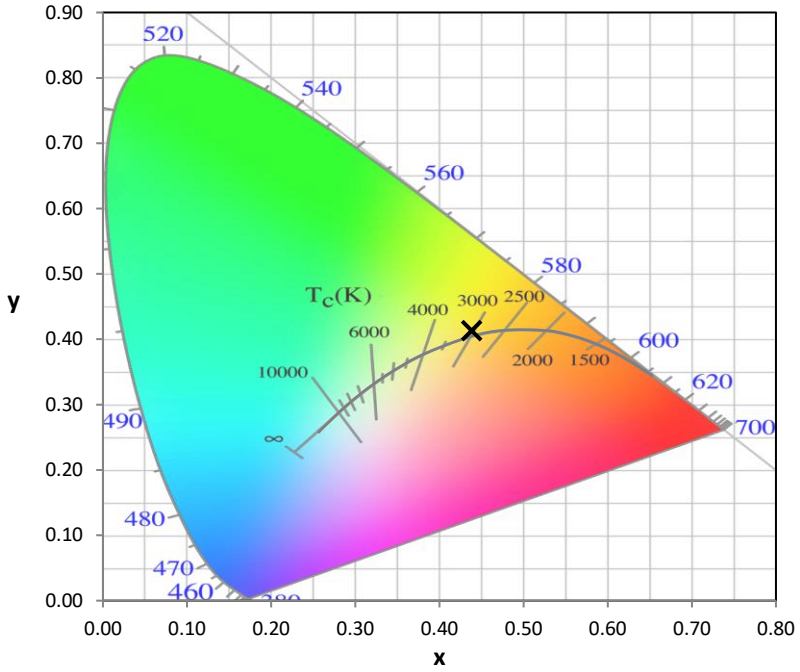
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

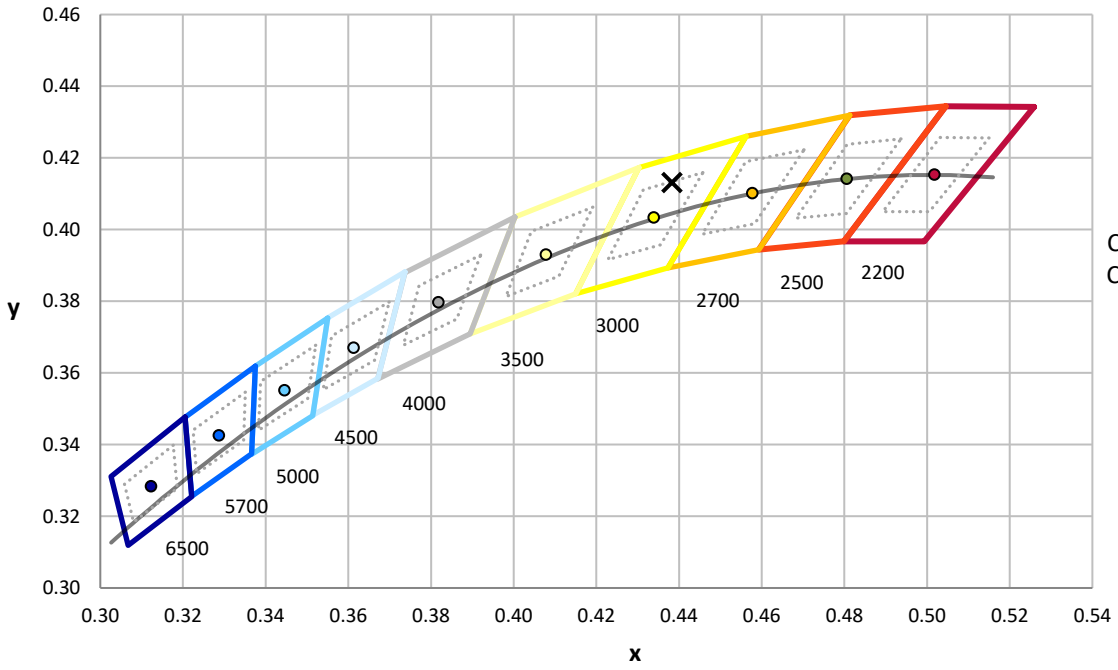
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

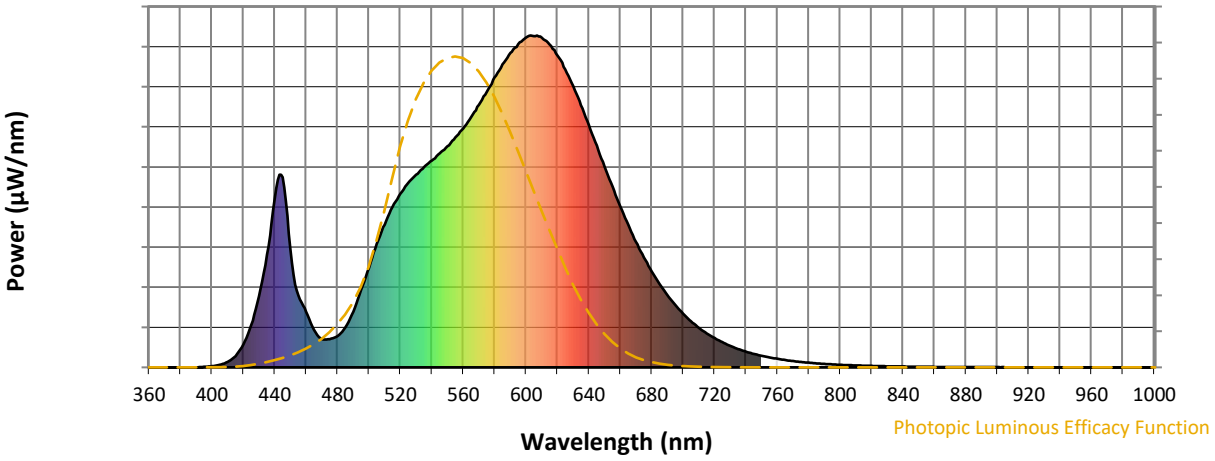


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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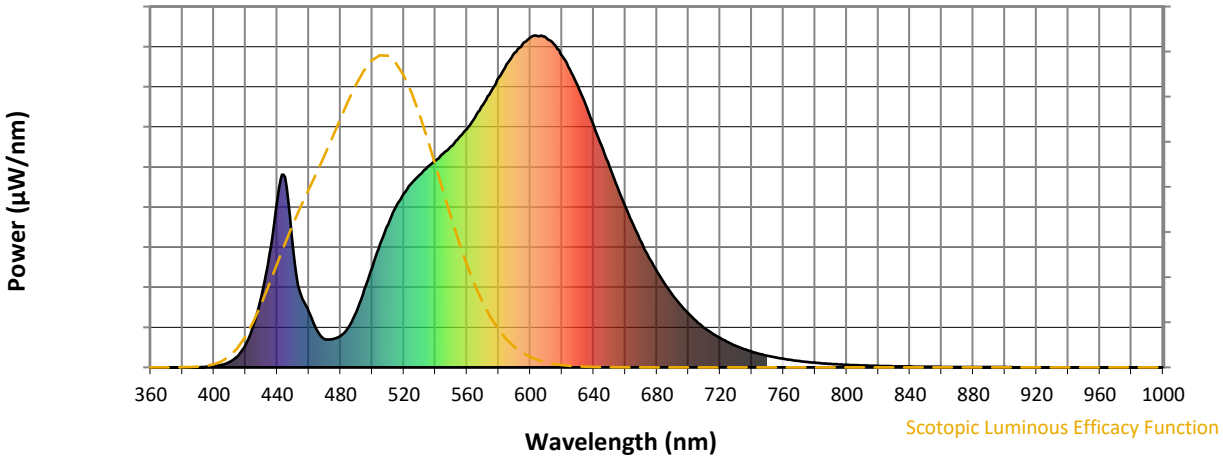
Scotopic Flux vs. Wavelength



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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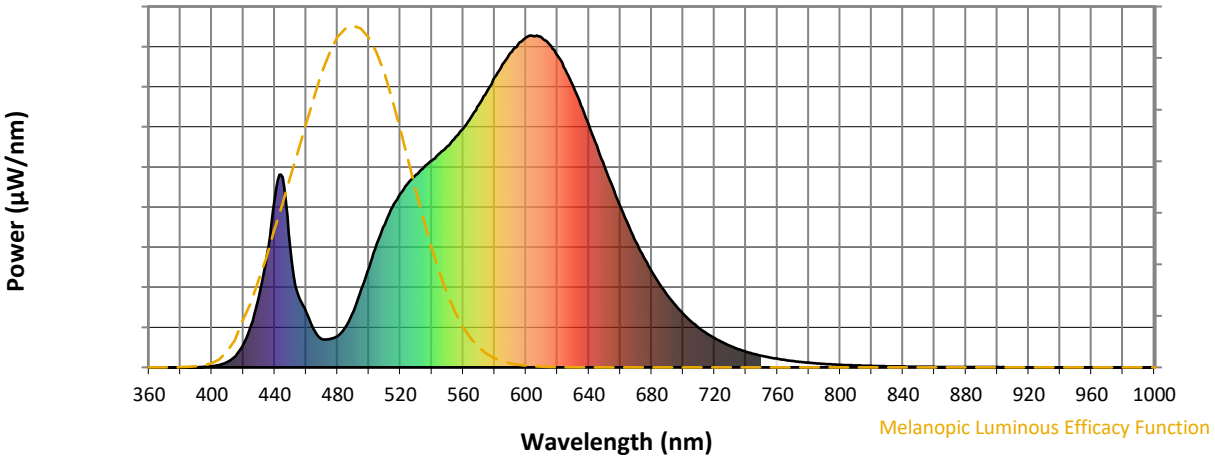
Melanopic Flux vs. Wavelength



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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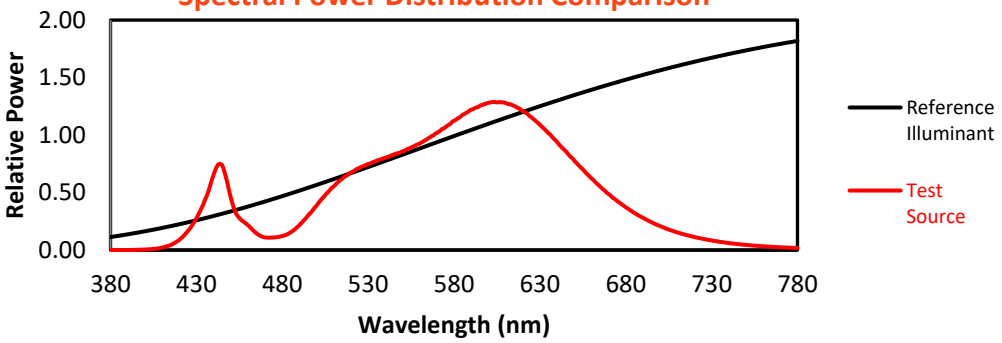
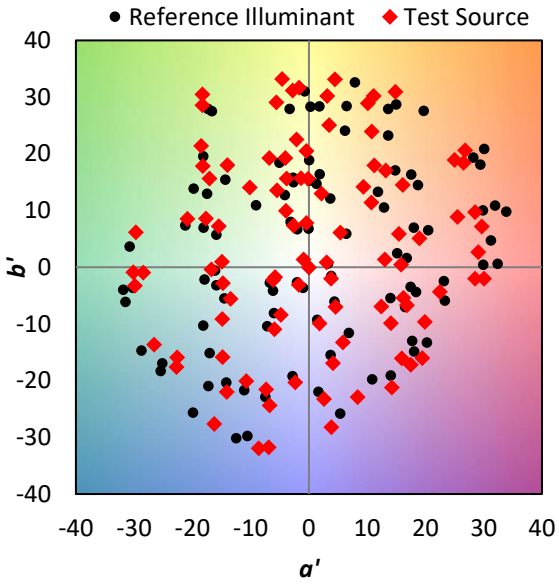
Summary

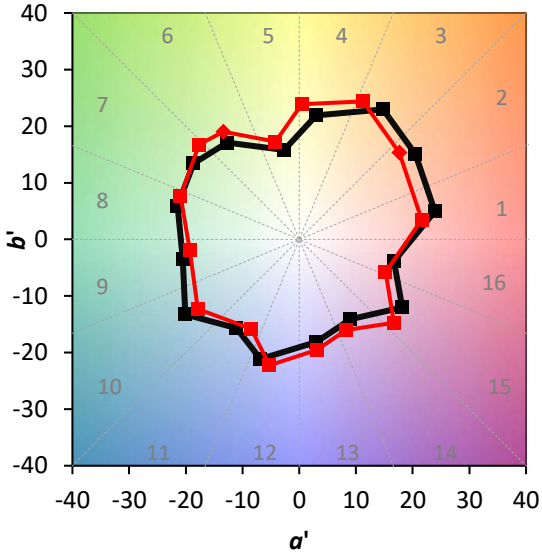
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

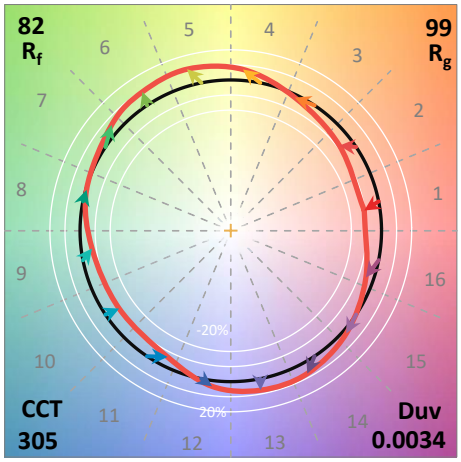
Spectral Power Distribution Comparison

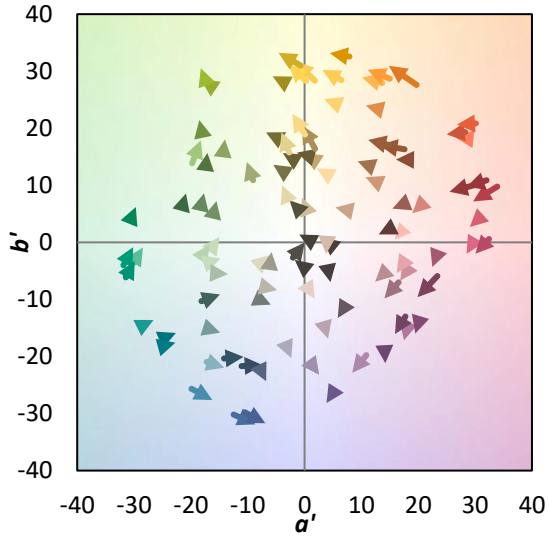


Color Vector Graphics









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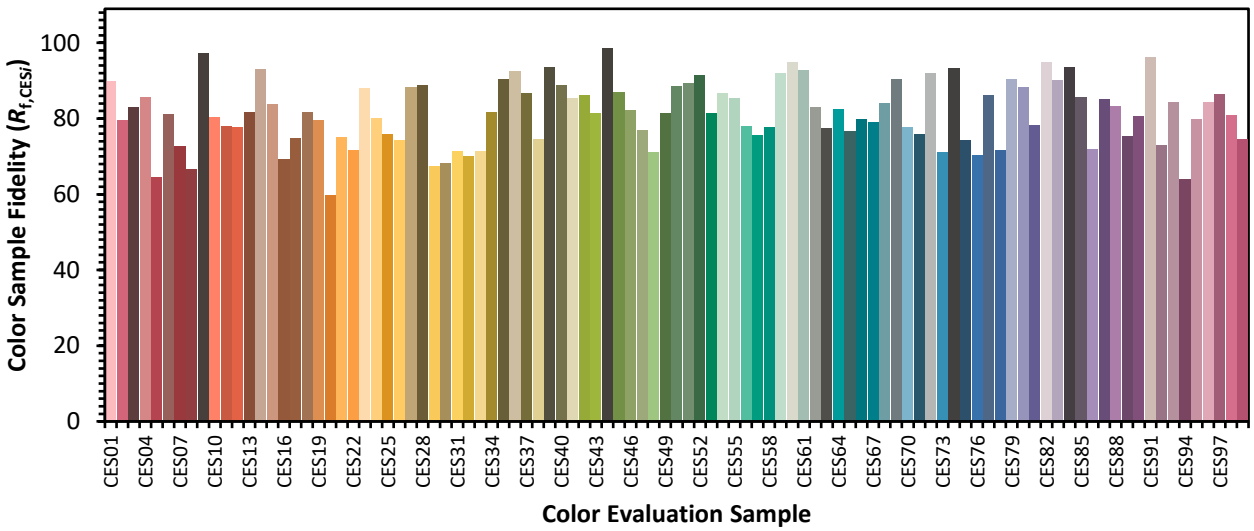
Individual Sample Fidelity Index ($R_{f,i}$)

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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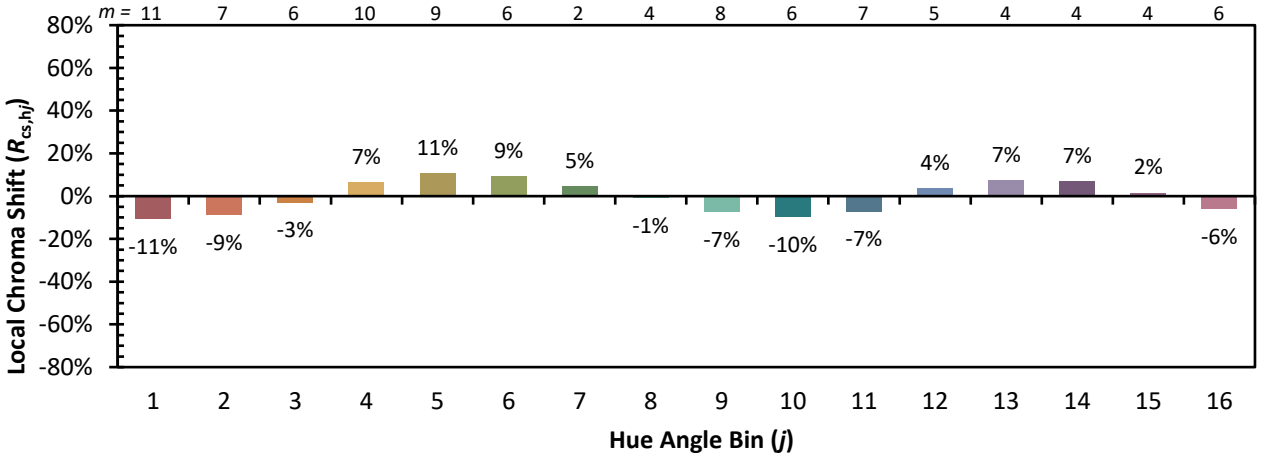
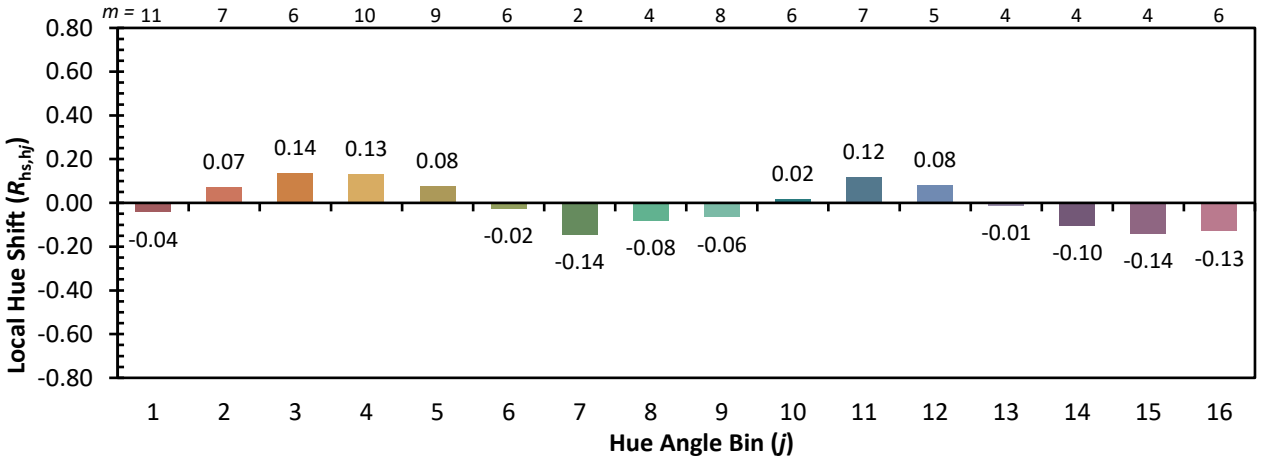
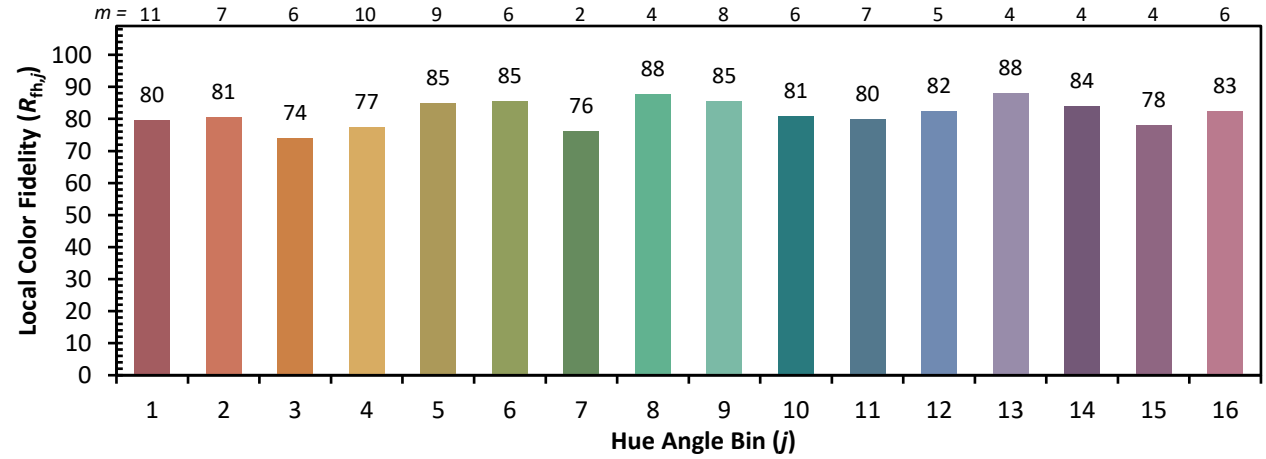
Color Rendition by Hue-Angle Bin







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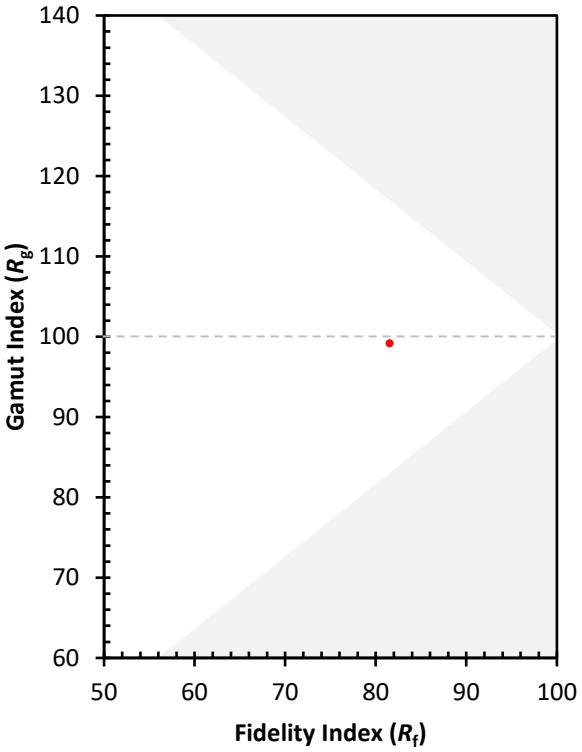
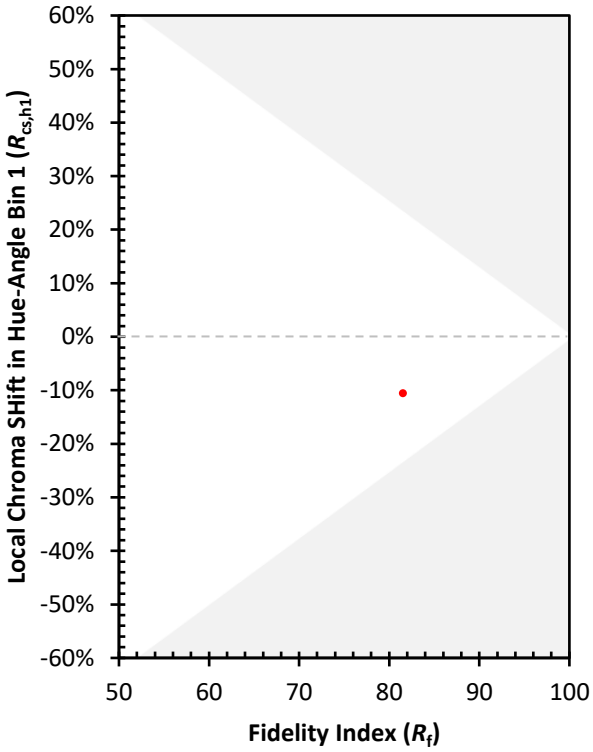
Measure Comparisons





(END OF REPORT)