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: P635522

Luminaire Tested: GWS-SA3D-830-U-T2R-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:	P635522
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9371.3 lumens
Efficiency:	N/A
Efficacy:	77.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	120.8
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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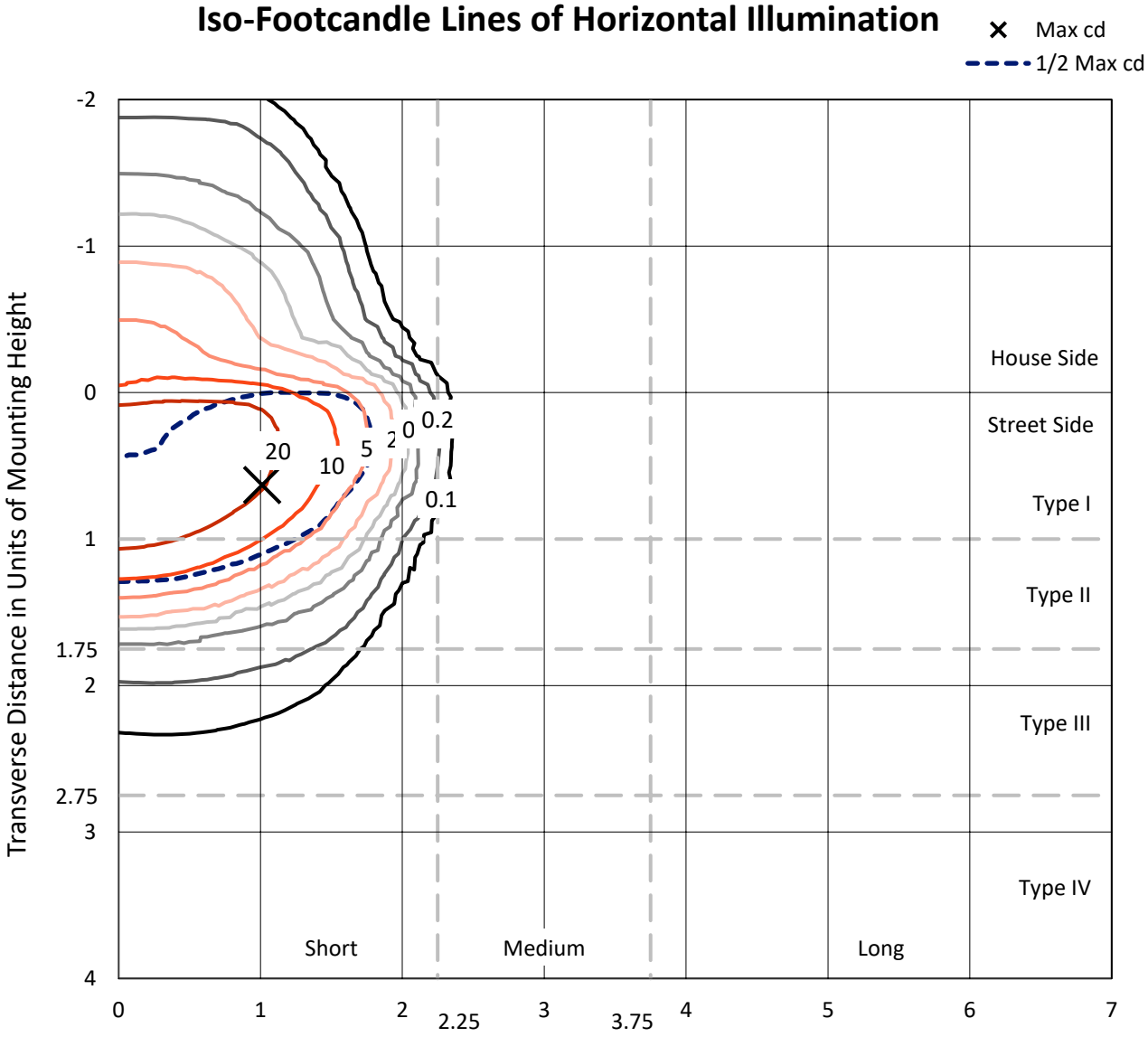
REPORT NUMBER: P635522
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 34.4 fc
Type II - Short - N/A

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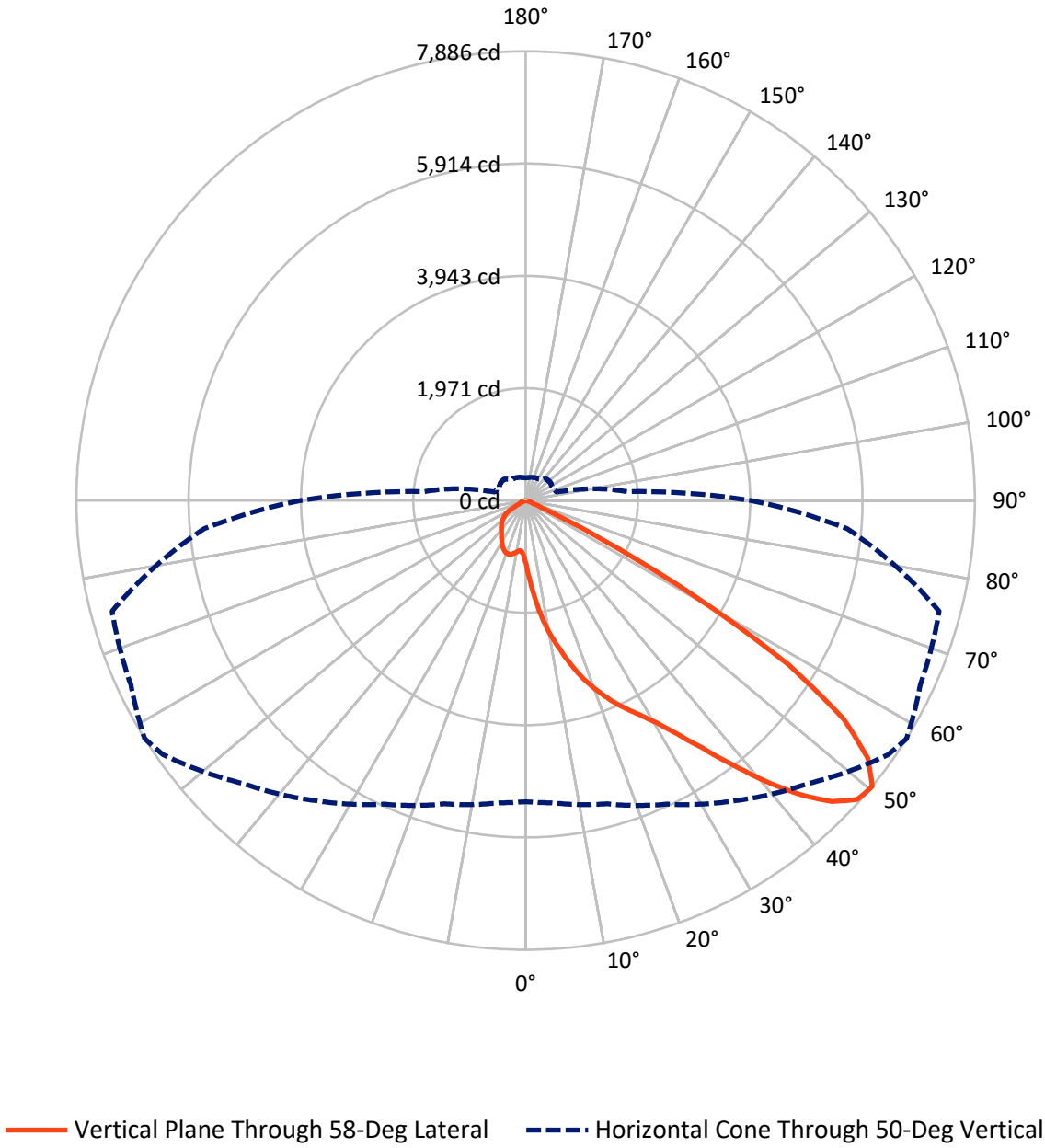
Luminous Intensity Polar Plot



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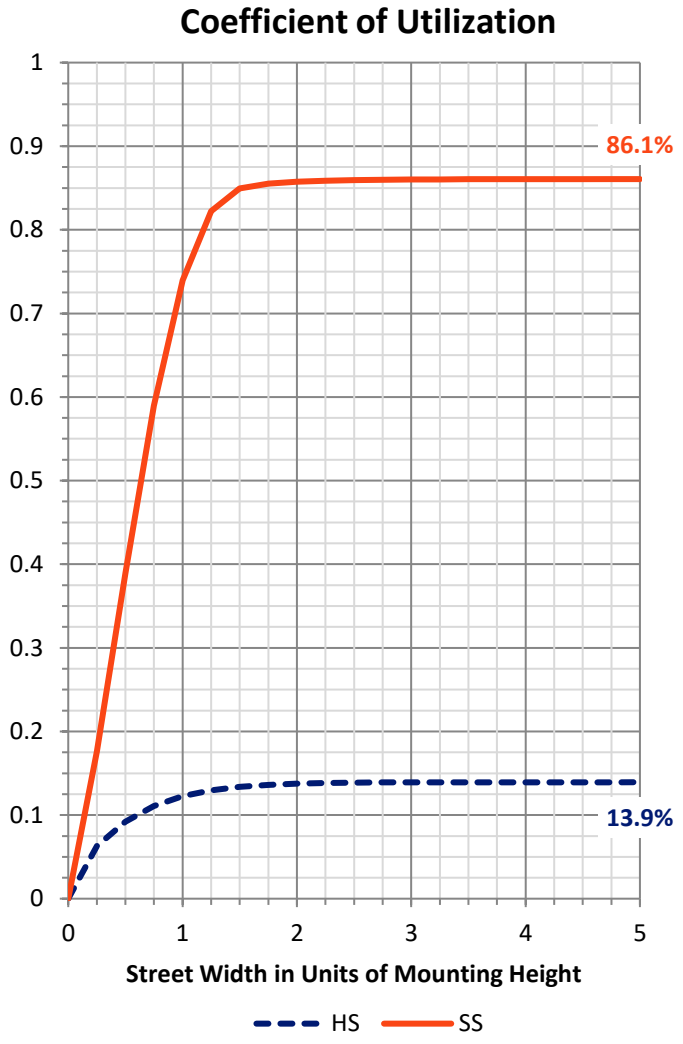
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.6	0.0	1312.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8058.7	0.0	8058.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	9371.3	0.0	9371.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	1.5
10°-20°	549.0	5.9
20°-30°	1110.9	11.9
30°-40°	1965.2	21.0
40°-50°	2864.9	30.6
50°-60°	2296.3	24.5
60°-70°	413.7	4.4
70°-80°	32.6	0.3
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°	9371.3	100.0
0°-180°	9371.3	100.0



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REPORT NUMBER: P635522
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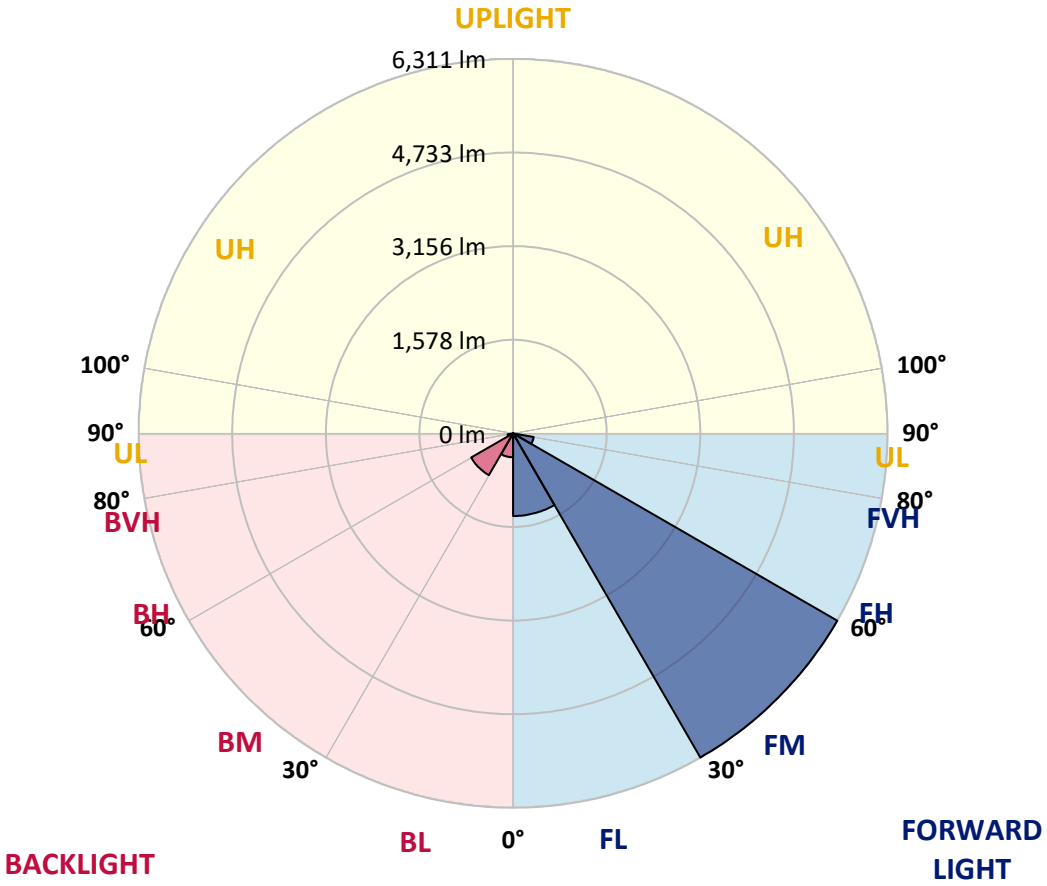
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1394.4	14.9			
FM	(30°-60°)	6311.3	67.3			
FH	(60°-80°)	353.0	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	404.1	4.3	B1/500		
BM	(30°-60°)	815.2	8.7	B1/1000		
BH	(60°-80°)	93.3	1.0	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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Scaled Data Report

REPORT NUMBER: P635522
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	*1119.4*	1119.4	1119.4	1119.4
2.5°	1656.5	1630.5	1615.4	1603.4	1550.3	1466.1	1411.0	*1381.9*	1333.8	1252.7	1182.5
5°	2161.6	2142.6	2107.5	2083.4	2015.3	1896.0	1772.8	*1723.7*	1614.4	1431.0	1266.7
7.5°	2496.3	2482.3	2469.3	2437.2	2373.1	2264.8	2128.5	*2077.4*	1909.1	1648.5	1378.9
10°	2753.9	2742.8	2727.8	2726.8	2676.7	2579.5	2446.2	*2393.1*	2210.7	1885.0	1511.2
12.5°	2980.4	2971.3	2968.3	2996.4	2964.3	2892.2	2747.9	*2681.7*	2488.3	2126.5	1657.5
15°	3135.7	3133.7	3146.7	3201.8	3219.9	3186.8	3065.5	*2994.4*	2771.9	2369.0	1818.9
17.5°	3206.8	3212.8	3237.9	3333.1	3413.3	3441.3	3348.1	*3288.0*	3053.5	2614.6	1991.2
20°	3328.1	3326.1	3341.1	3431.3	3529.5	3629.7	3601.7	*3550.6*	3338.1	2874.1	2182.7
22.5°	3669.8	3640.8	3608.7	3622.7	3657.8	3775.0	3827.2	*3801.1*	3631.7	3140.7	2380.1
25°	4194.9	4164.9	4061.7	3961.4	3895.3	3948.4	4019.6	*4032.6*	3923.4	3414.3	2586.5
27.5°	4752.1	4725.1	4608.8	4458.5	4269.1	4176.9	4230.0	*4256.1*	4210.0	3740.0	2806.0
30°	5274.2	5238.2	5110.9	4924.5	4705.0	4563.7	4503.6	*4521.6*	4548.7	4125.8	3063.5
32.5°	5727.2	5700.1	5547.8	5351.4	5140.0	4992.6	4852.3	*4882.4*	4948.5	4597.8	3393.2
35°	6111.0	6097.0	5935.7	5740.2	5516.8	5441.6	5321.3	*5327.4*	5393.5	5168.0	3795.1
37.5°	6444.7	6420.7	6274.4	6093.0	5915.6	5903.6	5870.5	*5873.5*	5907.6	5832.4	4257.1
40°	6655.2	6633.1	6528.9	6416.7	6290.4	6292.4	6463.8	*6476.8*	6437.7	6484.8	4745.1
42.5°	6734.4	6718.3	6662.2	6663.2	6650.2	6709.3	7031.0	*7055.0*	6914.7	6996.9	5162.0
45°	6597.1	6590.0	6594.1	6738.4	6894.7	7077.1	7495.0	*7537.1*	7338.6	7336.6	5487.7
47.5°	6154.1	6140.1	6257.3	6502.9	6864.6	7219.4	7775.6	*7840.7*	7635.3	7531.1	5692.1
50°	*5286.3*	*5326.4*	*5511.7*	*5880.5*	*6430.7*	*7024.0*	*7772.6*	*7885.8*	*7646.3*	*7514.0*	*5658.1*
52.5°	3829.2	3821.1	4227.0	4734.1	5403.5	6398.6	7359.7	*7525.0*	7378.7	7346.7	5581.9
55°	2083.4	2156.6	2430.2	3101.6	3937.4	5215.1	6416.7	*6777.4*	6946.8	7285.5	5719.2
57.5°	765.6	797.7	969.1	1444.1	2084.4	3242.9	4901.4	*5445.6*	5968.7	7115.2	5696.1
60°	308.7	314.7	382.8	531.1	875.9	1650.5	2940.3	*3423.3*	3916.3	5446.6	4371.3
62.5°	224.5	232.5	259.6	310.7	442.9	721.5	1267.7	*1474.1*	1611.4	2697.7	2153.6
65°	181.4	187.4	209.4	232.5	292.6	387.8	408.9	*393.8*	391.8	697.5	494.1
67.5°	150.3	156.3	172.4	188.4	210.4	193.4	140.3	*147.3*	120.3	119.3	97.2
70°	110.2	117.2	133.3	150.3	126.3	52.1	81.2	*120.3*	91.2	76.2	74.2
72.5°	83.2	88.2	103.2	98.2	37.1	20.0	54.1	*87.2*	70.1	56.1	55.1
75°	62.1	65.1	52.1	16.0	4.0	5.0	20.0	*36.1*	39.1	32.1	32.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	*3.0*	4.0	5.0	6.0
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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REPORT NUMBER: P635522
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4	1119.4
2.5°	1142.4	1100.3	1040.2	990.1	952.0	914.9	886.9	858.8	857.8	843.8	840.8
5°	1190.5	1114.4	1004.1	925.0	876.9	847.8	827.8	817.7	812.7	807.7	805.7
7.5°	1259.7	1150.5	998.1	913.9	873.9	854.8	840.8	834.8	831.8	827.8	826.8
10°	1344.9	1202.6	1020.2	935.0	899.9	881.9	866.8	857.8	852.8	845.8	843.8
12.5°	1447.1	1266.7	1055.2	970.1	933.0	908.9	888.9	875.9	868.9	859.8	857.8
15°	1557.3	1335.8	1094.3	1002.1	958.0	927.0	901.9	881.9	868.9	857.8	854.8
17.5°	1671.6	1406.0	1129.4	1024.2	970.1	933.0	896.9	869.9	853.8	839.8	835.8
20°	1799.8	1478.2	1152.5	1028.2	966.1	917.0	874.9	840.8	824.8	805.7	801.7
22.5°	1934.1	1545.3	1162.5	1019.2	944.0	886.9	841.8	806.7	783.7	763.6	757.6
25°	2064.4	1605.4	1157.5	994.1	910.9	844.8	798.7	762.6	737.6	717.5	712.5
27.5°	2202.7	1655.5	1139.4	957.0	865.8	798.7	754.6	723.5	700.5	678.4	673.4
30°	2358.0	1701.6	1110.4	911.9	812.7	751.6	717.5	696.5	671.4	648.4	641.4
32.5°	2545.4	1742.7	1068.3	857.8	765.6	710.5	691.5	675.4	646.4	622.3	617.3
35°	2759.9	1776.8	1015.2	801.7	719.5	684.5	680.5	659.4	621.3	593.3	587.3
37.5°	3008.4	1809.9	952.0	746.6	685.5	672.4	673.4	637.4	591.3	557.2	553.2
40°	3276.0	1842.9	881.9	698.5	654.4	665.4	656.4	605.3	530.1	497.1	493.1
42.5°	3554.6	1879.0	810.7	653.4	628.3	638.4	625.3	541.2	487.0	470.0	468.0
45°	3806.1	1922.1	733.6	608.3	602.3	599.3	577.2	490.0	467.0	455.0	454.0
47.5°	3987.5	1915.1	651.4	565.2	574.2	564.2	497.1	466.0	447.0	430.9	426.9
50°	*3954.4*	*1792.8*	*566.2*	*517.1*	*538.1*	*529.1*	*447.0*	*437.9*	*420.9*	*403.9*	*397.8*
52.5°	3870.2	1626.5	492.0	466.0	499.1	478.0	412.9	403.9	388.8	366.8	359.8
55°	3915.3	1470.1	433.9	424.9	459.0	395.8	374.8	360.8	344.7	320.7	317.7
57.5°	3770.0	1199.6	348.7	354.8	405.9	337.7	328.7	306.7	279.6	263.6	261.6
60°	2609.6	644.4	218.5	225.5	293.6	283.6	294.6	274.6	241.5	226.5	223.5
62.5°	1198.6	258.6	119.3	114.2	154.3	192.4	252.5	250.5	209.4	185.4	183.4
65°	290.6	118.3	85.2	80.2	87.2	115.2	164.4	197.4	169.4	141.3	138.3
67.5°	94.2	96.2	78.2	73.2	77.2	86.2	98.2	109.2	108.2	99.2	97.2
70°	75.2	87.2	72.2	66.1	66.1	69.1	66.1	53.1	46.1	50.1	52.1
72.5°	56.1	66.1	57.1	51.1	49.1	48.1	41.1	30.1	21.0	19.0	18.0
75°	33.1	37.1	35.1	30.1	28.1	25.1	20.0	13.0	7.0	5.0	3.0
77.5°	6.0	7.0	8.0	6.0	5.0	4.0	3.0	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	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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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

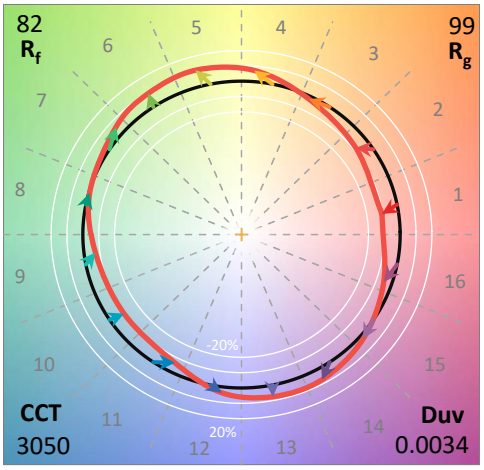
Test Information

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

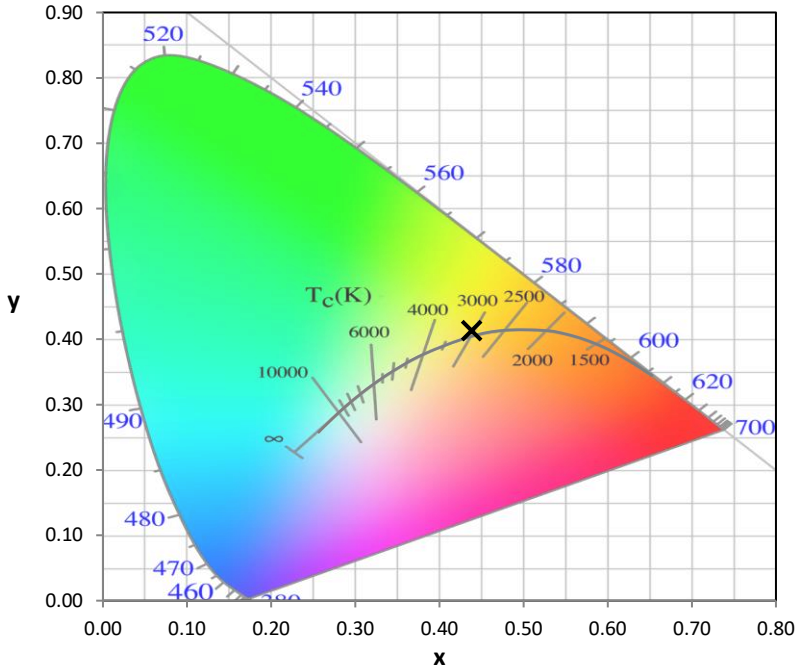
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

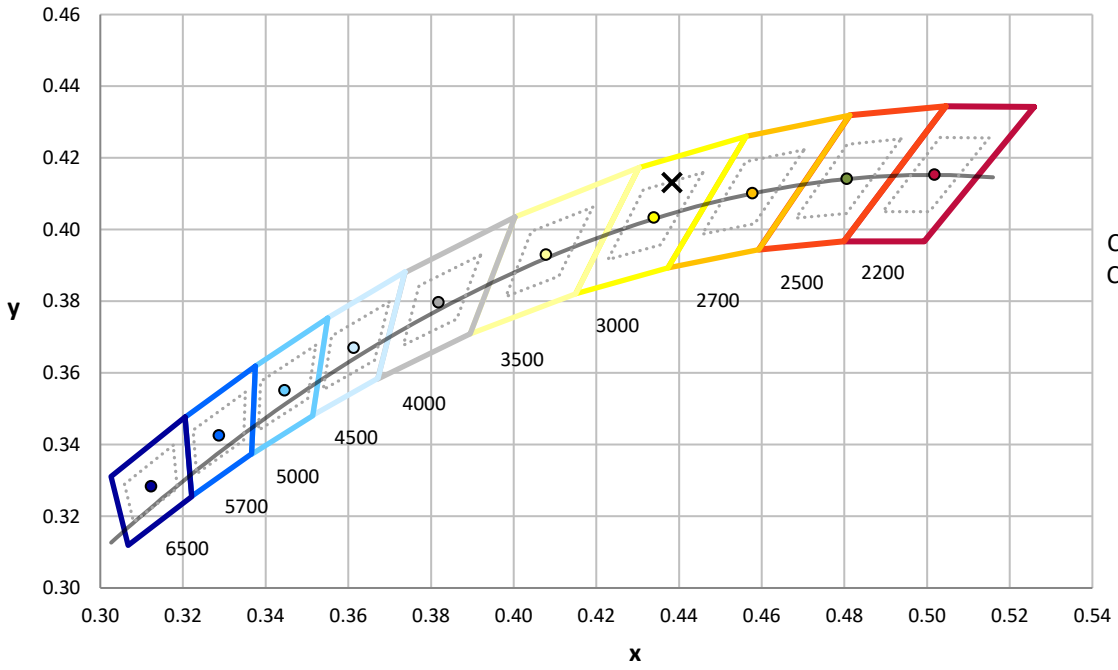
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

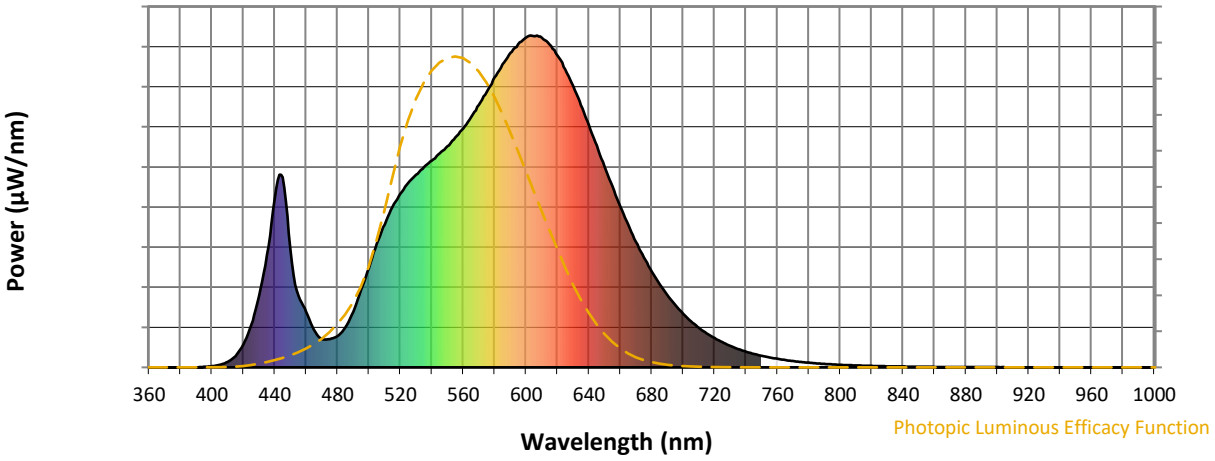


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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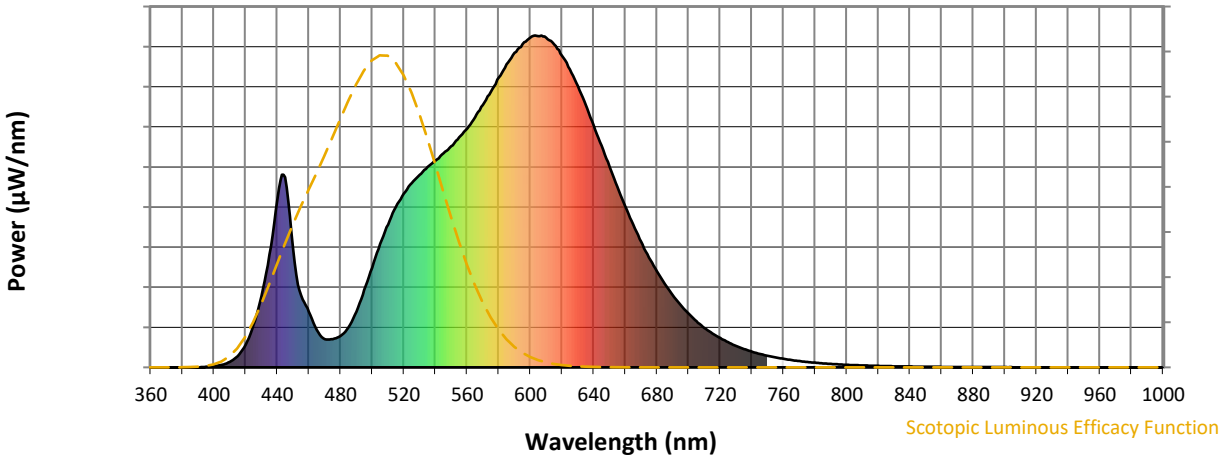
Scotopic Flux vs. Wavelength



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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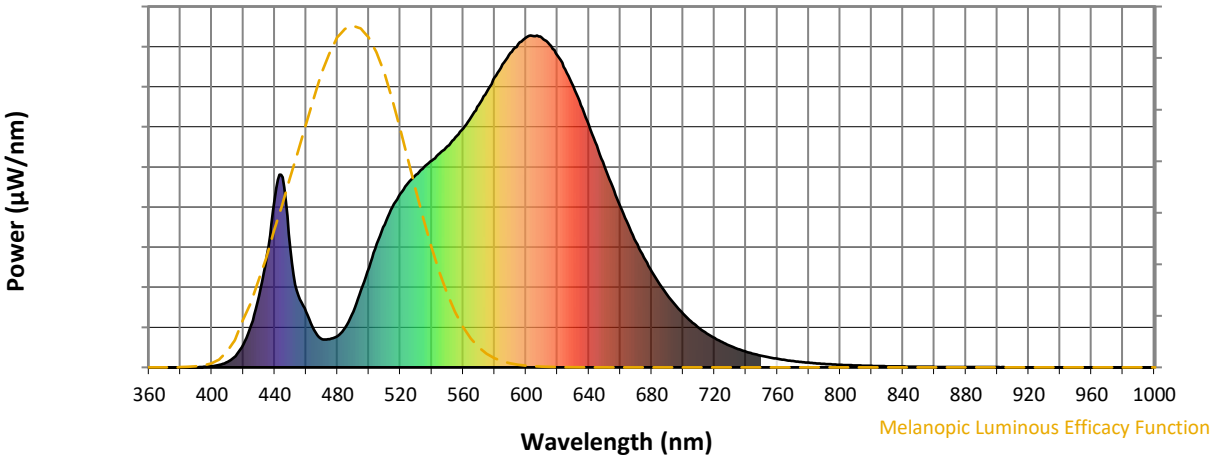
Melanopic Flux vs. Wavelength



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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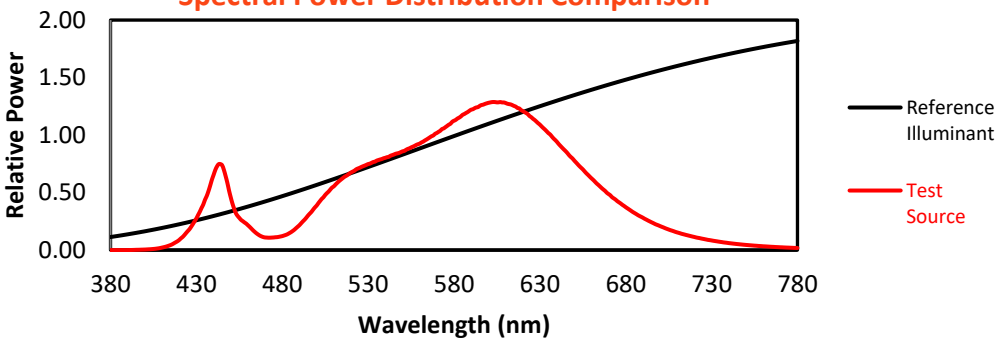
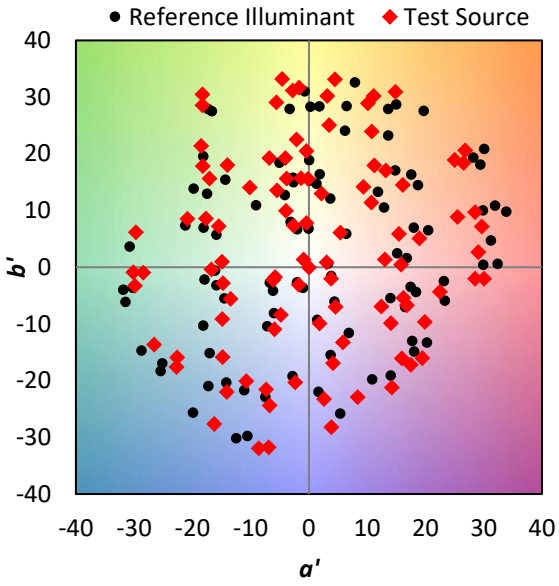
Summary

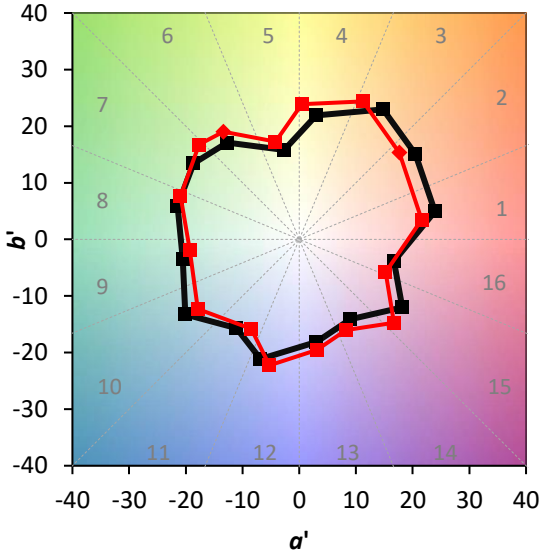
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

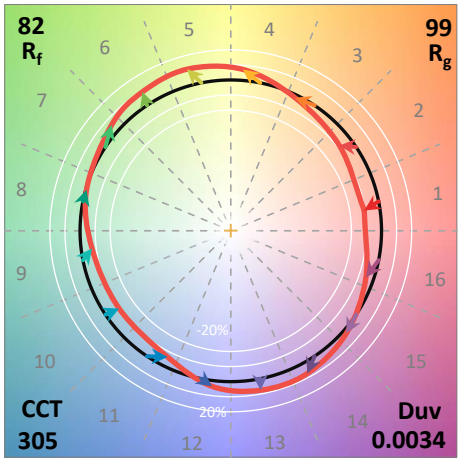
Spectral Power Distribution Comparison

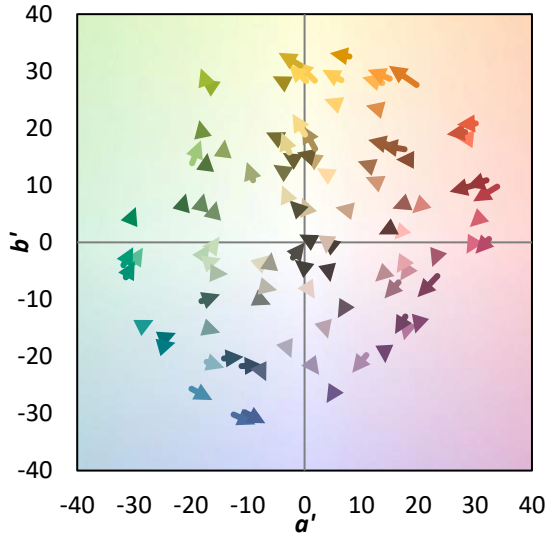


Color Vector Graphics









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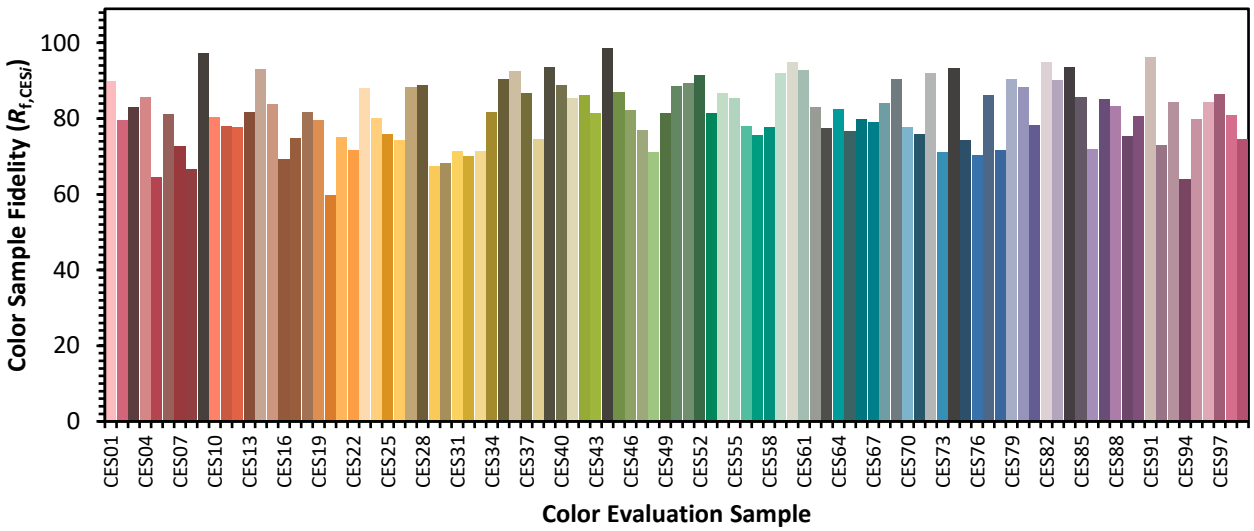
Individual Sample Fidelity Index ($R_{f,i}$)

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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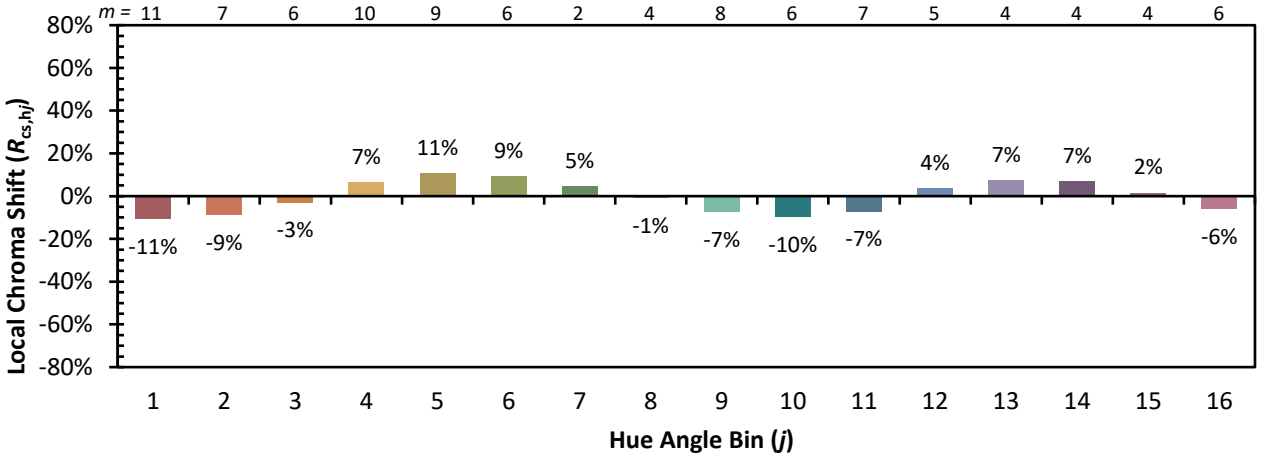
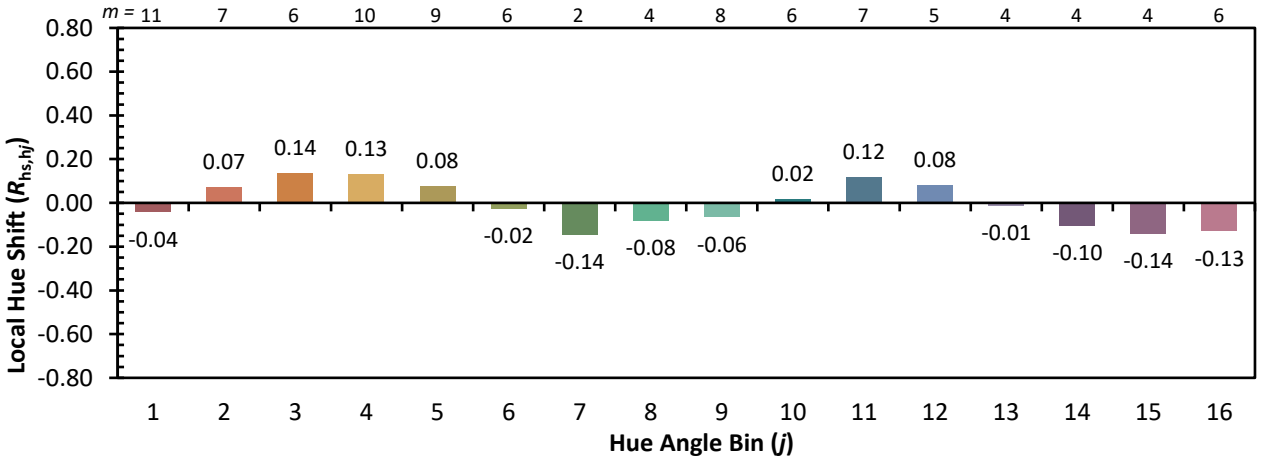
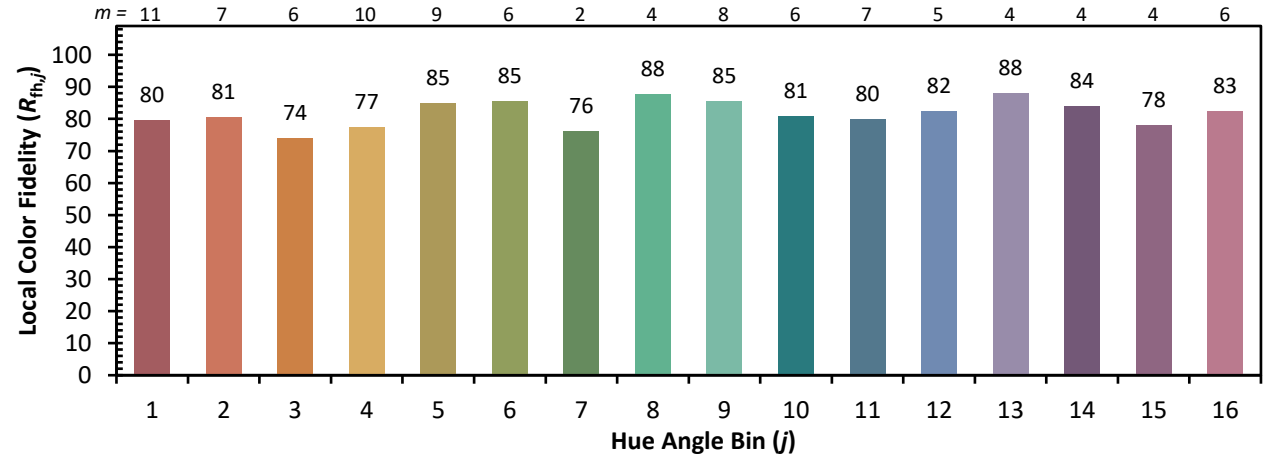
Color Rendition by Hue-Angle Bin







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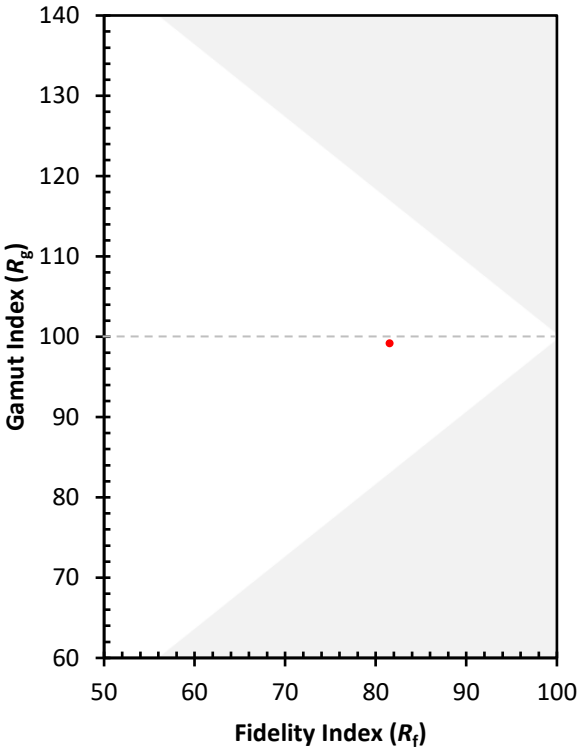
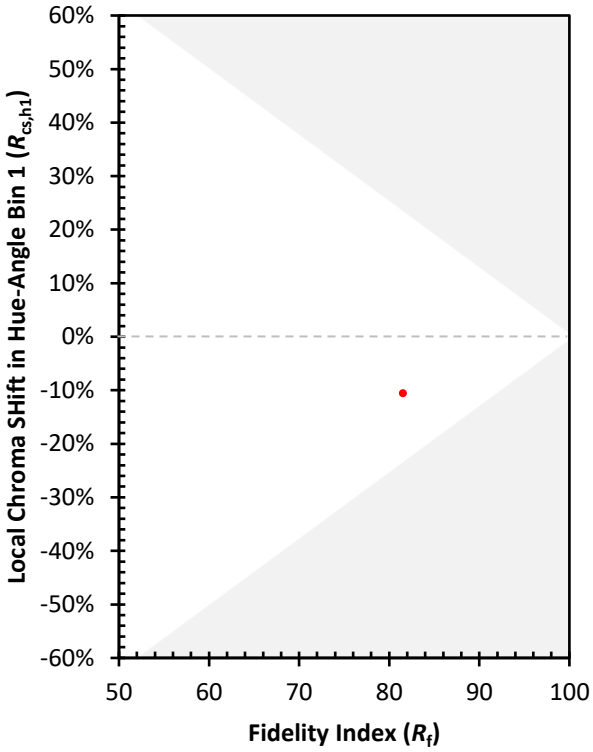
Measure Comparisons





(END OF REPORT)