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: P635037

Luminaire Tested: GWS-SA3C-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:	P635037
	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-SA3C-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8674.7 lumens
Efficiency:	N/A
Efficacy:	93.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	93
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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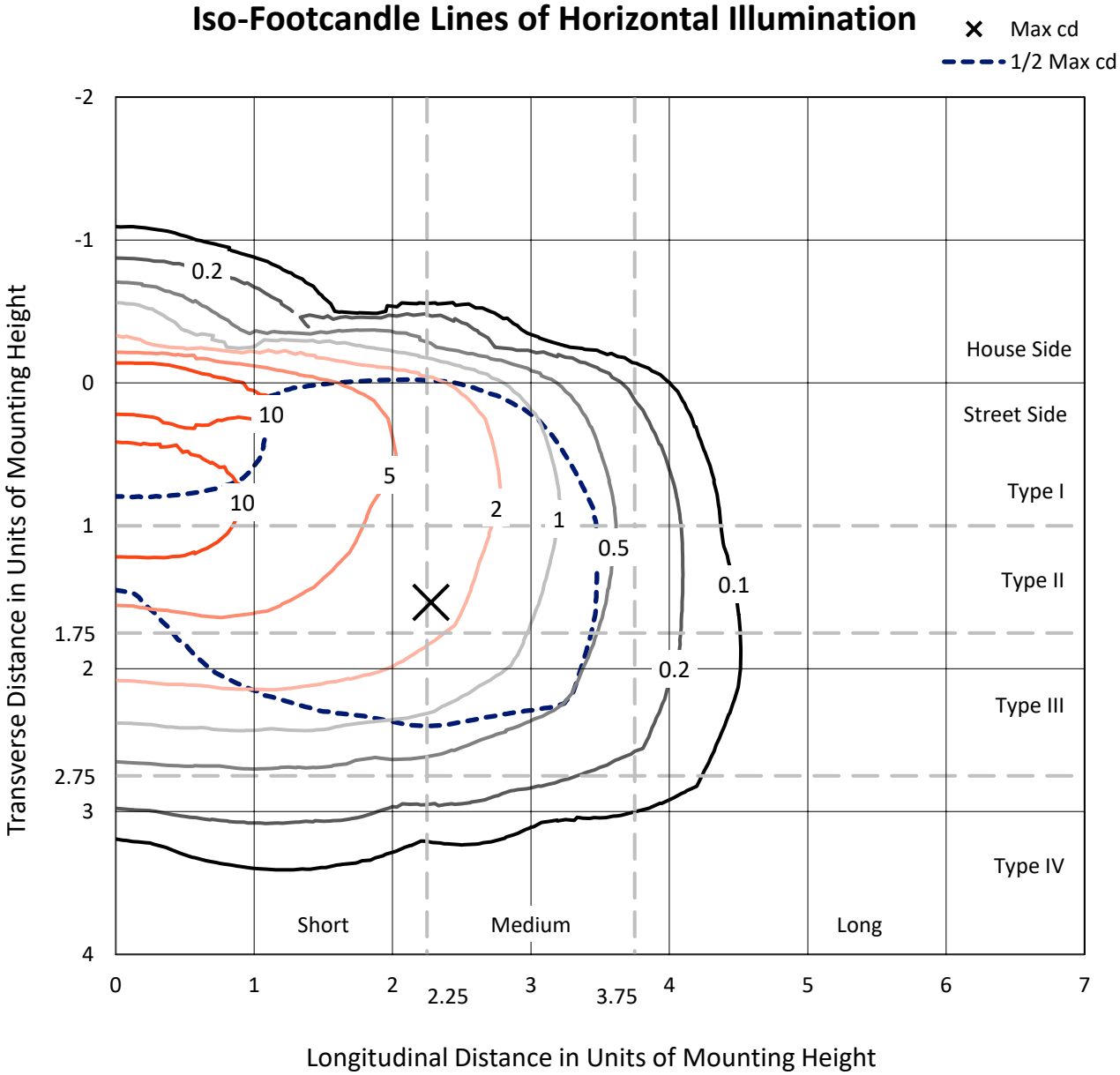
REPORT NUMBER: P635037
CATALOG NUMBER: GWS-SA3C-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
Type III - Medium - N/A

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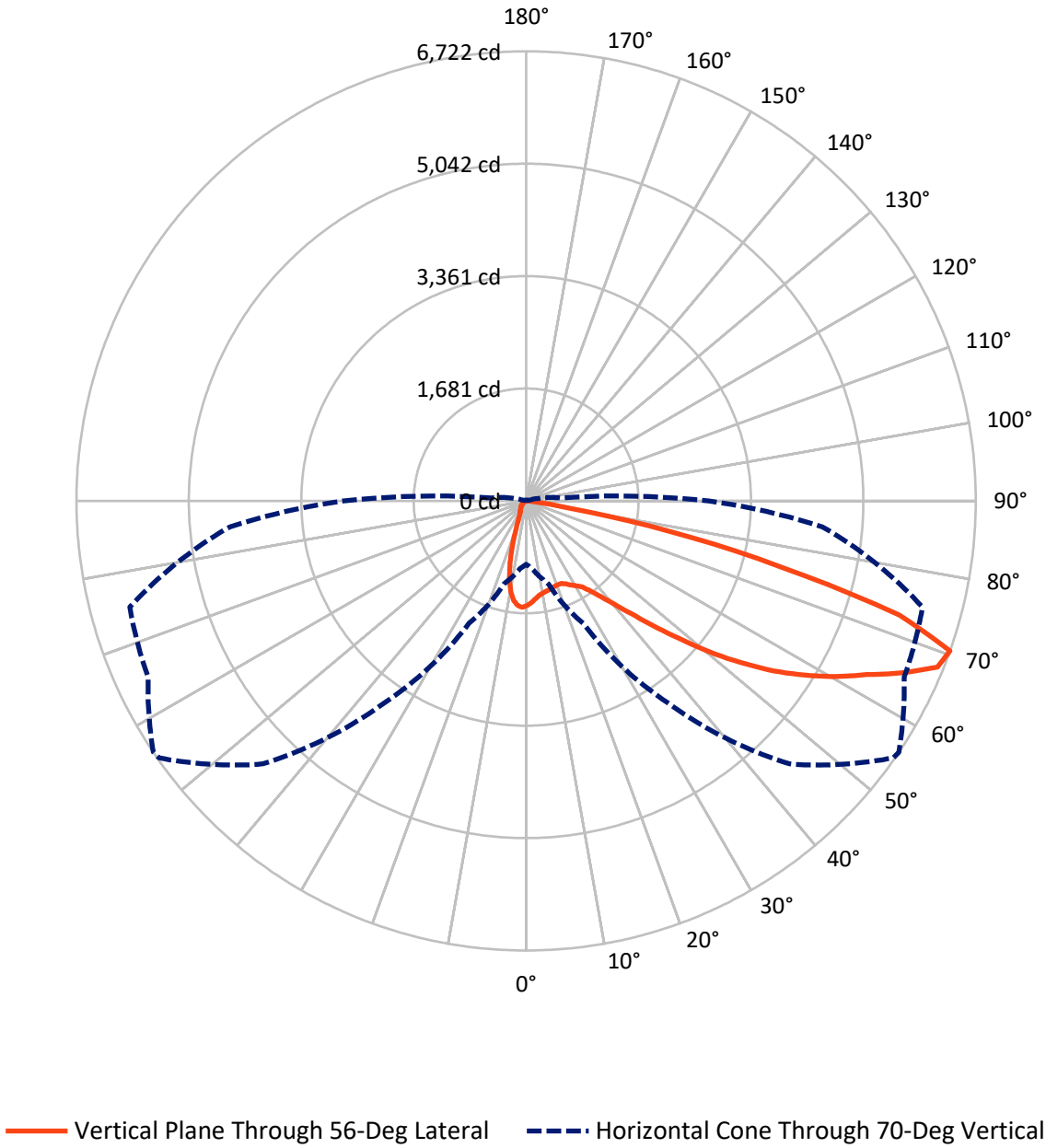
Luminous Intensity Polar Plot



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REPORT NUMBER: P635037
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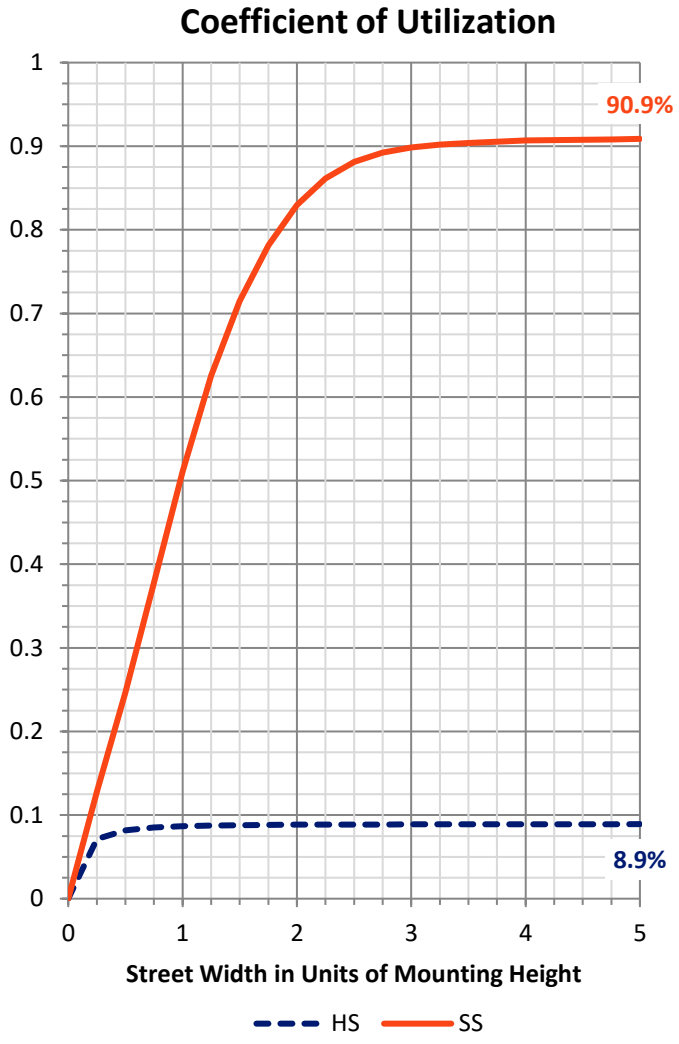
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.2	0.0	779.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	7895.5	0.0	7895.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	8674.7	0.0	8674.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.5
10°-20°	302.0	3.5
20°-30°	478.4	5.5
30°-40°	825.1	9.5
40°-50°	1393.3	16.1
50°-60°	2047.1	23.6
60°-70°	2427.0	28.0
70°-80°	1035.0	11.9
80°-90°	32.5	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°	8674.7	100.0
0°-180°	8674.7	100.0



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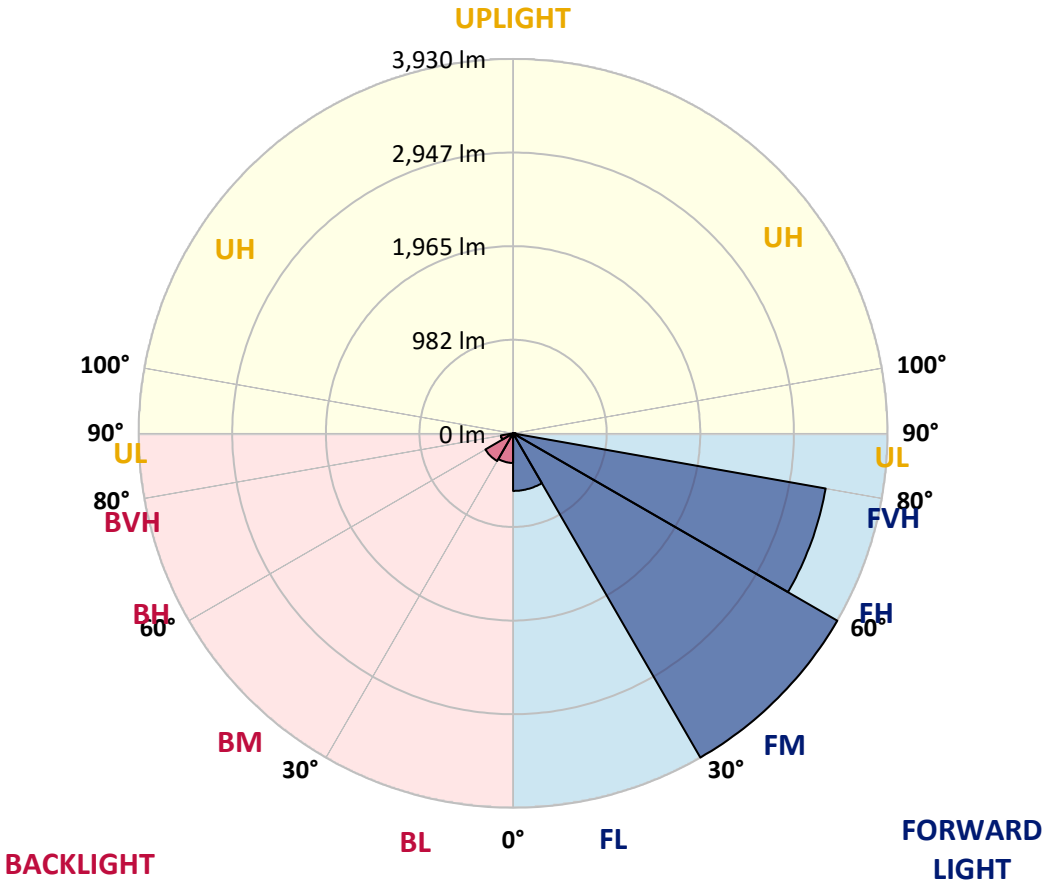
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	604.5	7.0			
FM	(30°-60°)	3929.9	45.3			
FH	(60°-80°)	3332.0	38.4			G2/5000
FVH	(80°-90°)	29.2	0.3			G1/100
BL	(0°-30°)	310.3	3.6	B1/500		
BM	(30°-60°)	335.6	3.9	B1/1000		
BH	(60°-80°)	129.9	1.5	B1/500		G1/500
BVH	(80°-90°)	3.3	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-G2
Type III Medium



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Scaled Data Report

REPORT NUMBER: P635037
CATALOG NUMBER: GWS-SA3C-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1
2.5°	1456.1	1453.7	1455.3	1467.2	1489.5	1499.8	1517.3	1520.4	1534.7	1553.0	1560.2
5°	1361.6	1353.6	1357.6	1374.3	1399.7	1428.3	1460.9	1469.6	1505.4	1545.9	1576.1
7.5°	1275.0	1266.2	1275.8	1302.0	1337.7	1368.7	1417.2	1422.7	1479.9	1551.4	1606.2
10°	1139.1	1141.5	1160.6	1206.7	1261.5	1325.8	1391.0	1398.9	1469.6	1569.7	1654.7
12.5°	1035.1	1029.5	1050.2	1102.6	1179.7	1273.4	1371.1	1381.4	1470.4	1597.5	1716.7
15°	986.6	985.0	993.8	1031.9	1106.6	1217.0	1352.8	1366.3	1480.7	1622.9	1775.4
17.5°	988.2	985.8	985.0	1007.3	1062.9	1174.9	1333.0	1350.4	1489.5	1650.7	1837.4
20°	1057.3	1046.2	1026.3	1016.0	1049.4	1147.9	1319.5	1339.3	1502.2	1680.1	1903.3
22.5°	1201.9	1205.9	1152.6	1097.0	1081.2	1151.1	1317.9	1340.9	1530.0	1726.2	1984.4
25°	1491.1	1484.7	1386.2	1261.5	1174.9	1187.6	1345.7	1373.5	1584.8	1792.1	2060.6
27.5°	1853.3	1858.9	1723.8	1525.2	1344.1	1263.1	1396.5	1424.3	1648.3	1833.4	2111.5
30°	2248.1	2242.5	2098.0	1877.9	1584.0	1388.6	1447.4	1472.0	1680.1	1855.7	2163.9
32.5°	2621.5	2608.7	2465.8	2235.4	1889.8	1586.4	1517.3	1531.6	1722.2	1904.1	2234.6
35°	2940.0	2939.2	2814.5	2569.0	2204.4	1834.2	1637.2	1649.1	1800.9	1981.2	2338.7
37.5°	3268.9	3257.8	3117.9	2893.9	2527.7	2105.9	1820.7	1816.0	1924.8	2094.8	2466.6
40°	3539.0	3531.8	3424.6	3209.3	2863.7	2406.2	2043.1	2028.8	2071.7	2252.1	2644.5
42.5°	3739.2	3739.9	3706.6	3575.5	3219.6	2753.3	2322.8	2300.5	2299.7	2489.6	2879.6
45°	3890.9	3901.2	3951.2	3931.4	3639.9	3157.7	2681.0	2658.0	2619.1	2797.8	3148.9
47.5°	3961.6	3975.1	4126.0	4205.5	4007.7	3558.8	3107.6	3059.2	2982.9	3207.7	3450.0
50°	3954.4	3978.3	4188.8	4430.3	4341.3	3965.5	3572.3	3549.3	3424.6	3641.4	3747.9
52.5°	3792.4	3843.2	4192.7	4566.9	4597.9	4340.5	4052.9	4010.0	3949.7	4094.2	4027.5
55°	3352.3	3414.2	4025.1	4610.6	4798.1	4667.8	4523.2	4488.3	4388.2	4521.6	4271.4
57.5°	3113.2	3166.4	3672.4	4589.1	4968.1	4970.4	4941.8	4913.2	4830.6	4944.2	4557.4
60°	2969.4	3022.6	3484.2	4510.5	5122.2	5289.8	5335.1	5331.9	5212.7	5424.8	4892.6
62.5°	2758.9	2832.0	3287.9	4306.3	5231.8	5604.4	5741.0	5719.5	5586.9	5925.3	5224.6
65°	2333.9	2397.4	2886.0	3969.5	5167.4	5864.9	6181.1	6192.2	6038.9	6396.4	5486.8
67.5°	1636.4	1683.3	2168.7	3262.5	4730.5	5950.7	6631.5	6630.7	6369.3	6637.8	5370.8
70°	948.5	1012.8	1281.3	2016.9	3680.4	5560.7	6699.0	6722.0	6235.1	6133.4	4444.6
72.5°	367.0	420.2	726.1	1071.6	1919.2	4259.5	5762.4	5830.0	5218.3	4731.3	3093.3
75°	109.6	122.3	341.6	570.4	770.5	2057.4	3901.2	3920.3	3579.5	2951.1	1585.6
77.5°	81.8	90.6	149.3	288.4	270.1	623.6	2018.5	2204.4	1900.2	1054.1	436.9
80°	55.6	65.9	106.4	140.6	100.1	166.0	567.2	622.8	579.9	236.7	109.6
82.5°	24.6	31.8	75.5	70.7	36.5	47.7	174.8	185.9	120.0	71.5	38.1
85°	2.4	3.2	28.6	31.0	13.5	11.1	36.5	36.5	26.2	24.6	15.9
87.5°	0.0	0.0	0.8	1.6	1.6	2.4	3.2	4.0	4.8	6.4	7.9
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: P635037
CATALOG NUMBER: GWS-SA3C-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1	1564.1
2.5°	1578.4	1568.9	1580.8	1590.4	1592.7	1575.3	1564.9	1549.8	1546.7	1547.5	1543.5
5°	1599.9	1595.1	1603.9	1593.5	1566.5	1515.7	1472.0	1423.5	1397.3	1382.2	1380.6
7.5°	1639.6	1637.2	1627.7	1580.8	1496.6	1383.8	1275.0	1168.5	1102.6	1078.8	1074.8
10°	1698.4	1693.6	1654.7	1543.5	1364.0	1147.1	964.4	811.9	718.9	691.9	658.5
12.5°	1765.9	1756.4	1671.4	1463.2	1163.8	863.5	635.5	464.7	384.5	360.6	360.6
15°	1831.0	1810.4	1661.8	1330.6	917.5	561.6	355.1	268.5	243.9	237.5	237.5
17.5°	1897.8	1858.1	1624.5	1149.5	633.9	332.1	236.7	220.0	216.9	217.7	218.5
20°	1960.5	1898.6	1558.6	931.8	404.3	232.0	212.1	208.1	206.5	208.1	207.3
22.5°	2028.8	1935.9	1458.5	694.3	262.9	208.9	201.8	198.6	197.0	199.4	199.4
25°	2096.4	1962.9	1325.8	467.1	208.9	194.6	190.7	187.5	185.9	186.7	186.7
27.5°	2131.3	1952.6	1151.9	297.9	187.5	180.3	176.4	172.4	170.0	169.2	170.0
30°	2155.2	1920.8	939.0	212.1	170.0	161.3	157.3	154.1	147.8	143.8	145.4
32.5°	2192.5	1889.0	707.8	177.9	155.7	142.2	135.8	127.9	119.2	115.2	115.2
35°	2237.0	1845.3	496.5	160.5	140.6	126.3	114.4	100.9	90.6	87.4	87.4
37.5°	2295.8	1804.0	330.5	148.5	127.9	112.8	96.1	80.2	69.1	67.5	66.7
40°	2383.9	1769.1	232.8	139.8	116.8	98.5	78.6	62.0	54.0	51.6	51.6
42.5°	2498.3	1733.3	184.3	131.1	107.2	85.0	62.8	49.3	42.9	41.3	40.5
45°	2639.7	1691.2	160.5	123.1	97.7	70.7	50.0	41.3	36.5	35.0	35.0
47.5°	2793.0	1634.0	149.3	112.8	86.6	57.2	42.1	35.7	33.4	32.6	31.8
50°	2944.0	1557.0	139.8	103.3	73.9	46.9	36.5	32.6	31.0	30.2	30.2
52.5°	3075.8	1467.2	127.9	92.1	60.4	40.5	32.6	30.2	28.6	27.0	26.2
55°	3188.6	1369.5	112.8	79.4	49.3	35.7	30.2	27.8	26.2	24.6	23.8
57.5°	3334.0	1313.9	90.6	64.3	40.5	31.8	27.8	25.4	23.8	21.4	21.4
60°	3495.3	1273.4	67.5	50.8	35.0	29.4	25.4	23.0	21.4	19.1	19.1
62.5°	3624.8	1213.0	53.2	41.3	30.2	26.2	23.0	20.7	19.1	16.7	16.7
65°	3674.0	1088.3	43.7	32.6	24.6	23.0	20.7	19.1	16.7	14.3	14.3
67.5°	3451.6	838.9	36.5	26.2	20.7	19.9	18.3	17.5	14.3	12.7	11.9
70°	*2733.5*	*511.6*	*30.2*	*21.4*	*17.5*	*16.7*	*16.7*	*15.1*	*12.7*	*11.9*	*11.1*
72.5°	1873.1	263.7	24.6	17.5	15.1	15.1	14.3	13.5	11.9	11.1	11.1
75°	973.1	88.2	19.1	13.5	11.9	12.7	12.7	11.9	11.1	11.1	10.3
77.5°	278.8	39.7	14.3	10.3	9.5	9.5	10.3	10.3	10.3	9.5	9.5
80°	72.3	23.0	10.3	7.9	7.9	7.9	7.9	8.7	9.5	8.7	8.7
82.5°	29.4	12.7	7.1	6.4	6.4	6.4	6.4	7.1	7.9	7.9	7.9
85°	18.3	6.4	5.6	5.6	5.6	4.8	4.8	5.6	5.6	6.4	6.4
87.5°	11.1	4.8	4.8	4.8	4.8	4.0	4.0	4.0	4.0	4.0	4.0
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

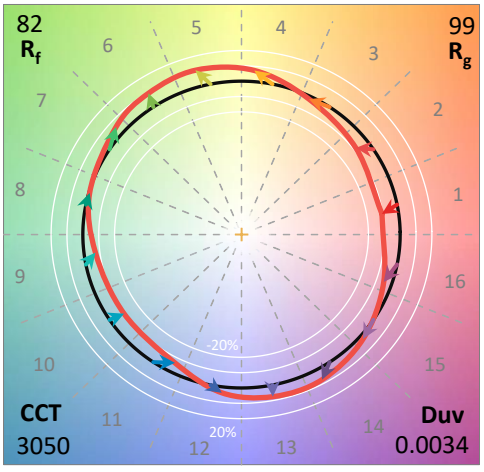
Test Information

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

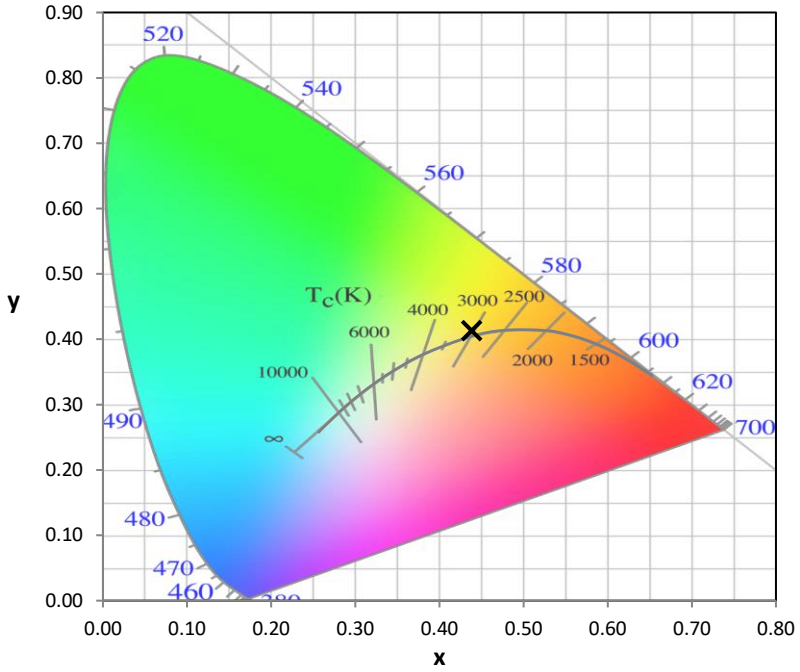
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

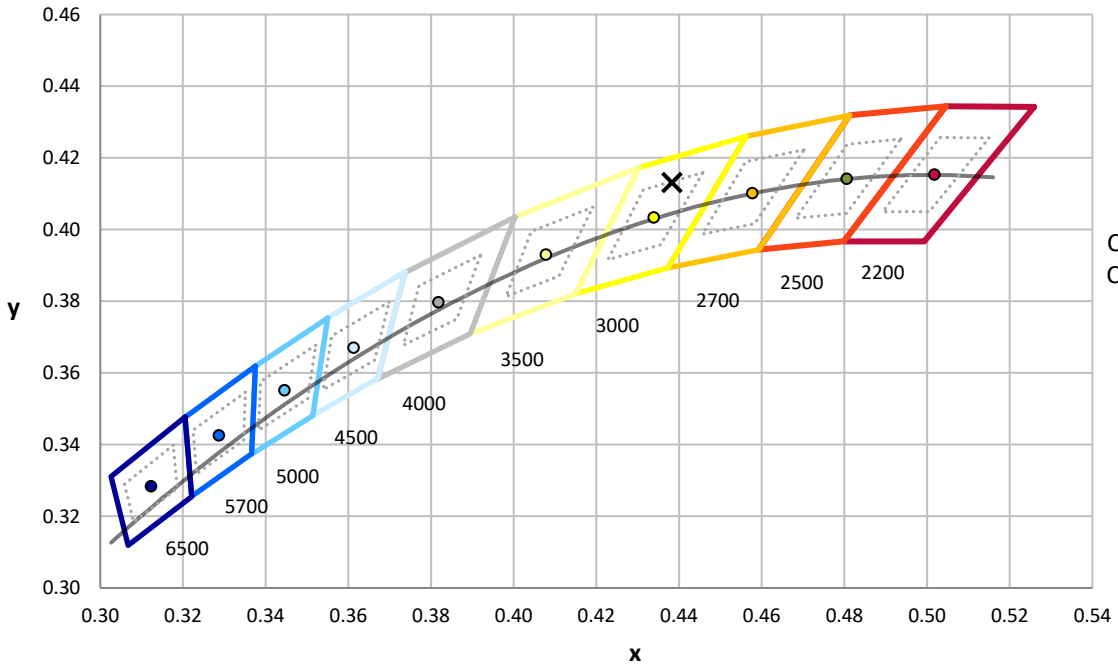
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

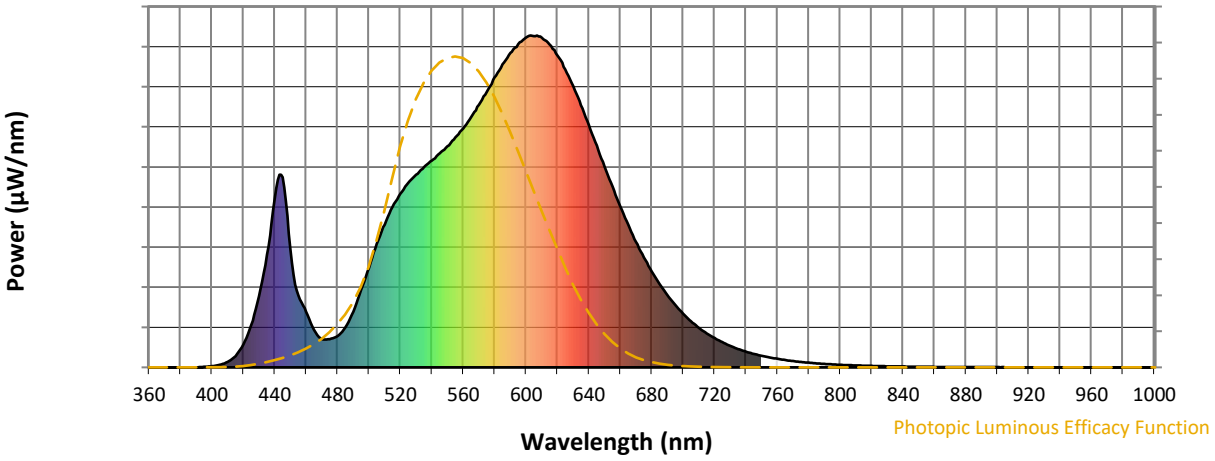


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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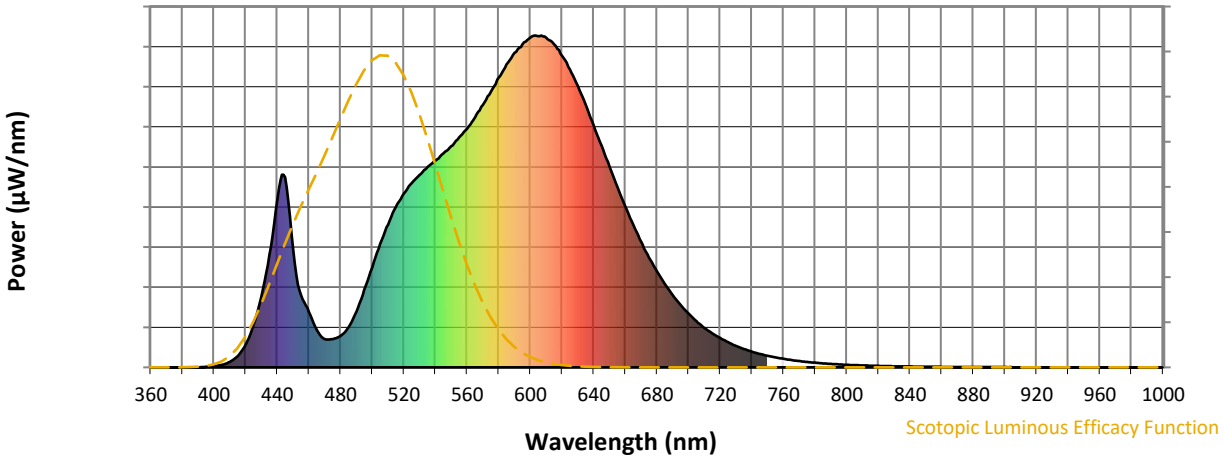
Scotopic Flux vs. Wavelength



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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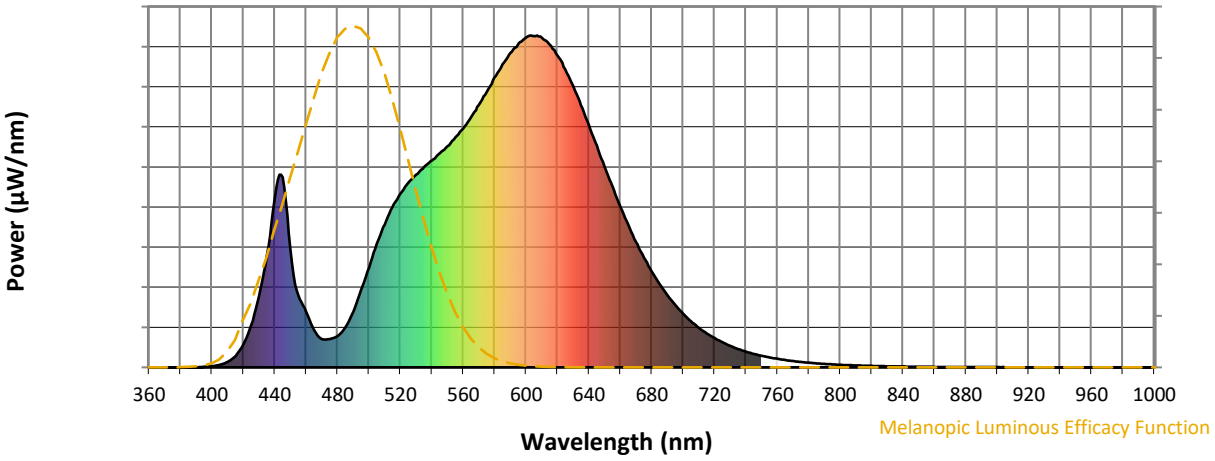
Melanopic Flux vs. Wavelength



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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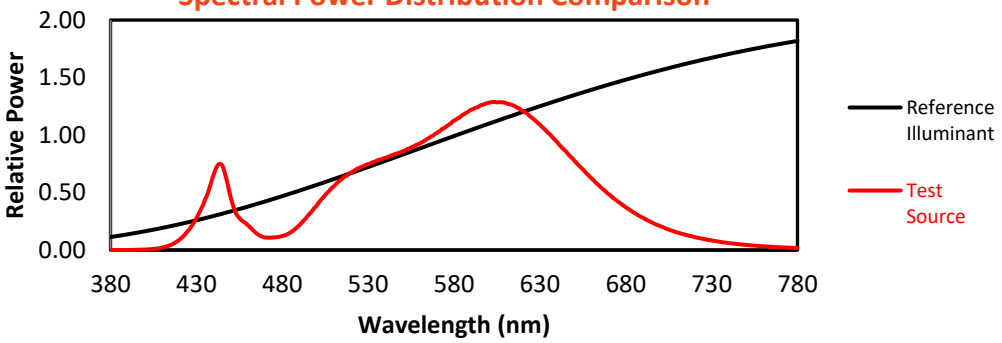
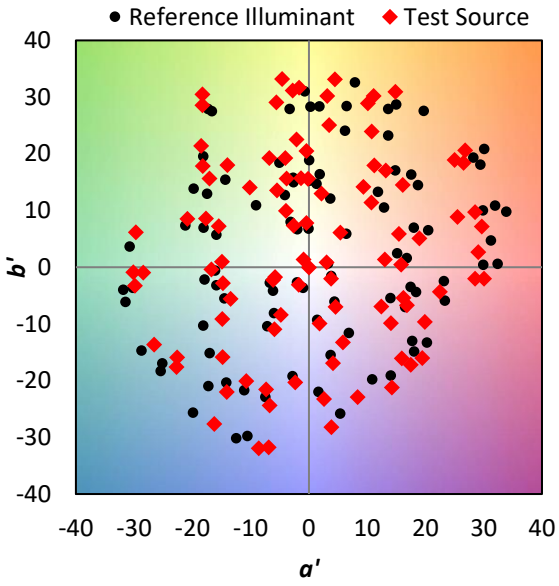
Summary

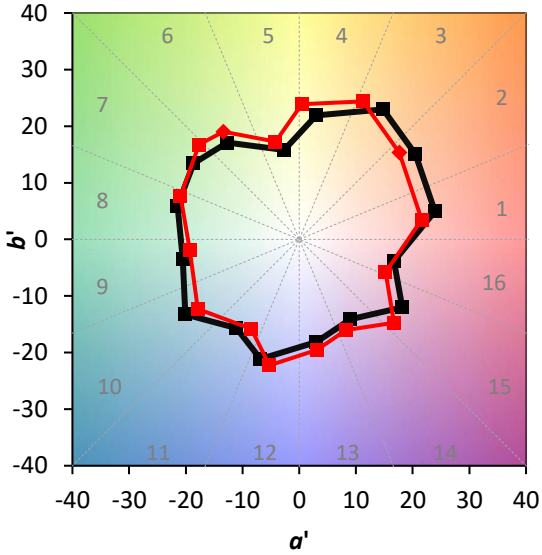
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

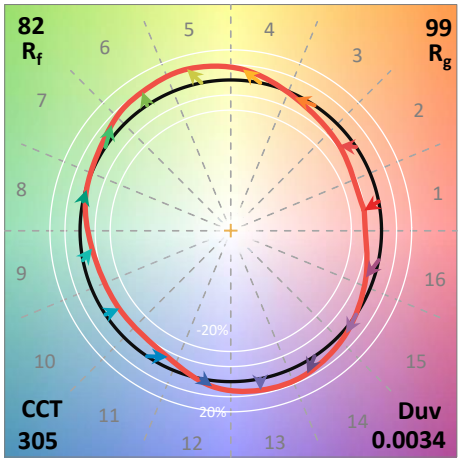
Spectral Power Distribution Comparison

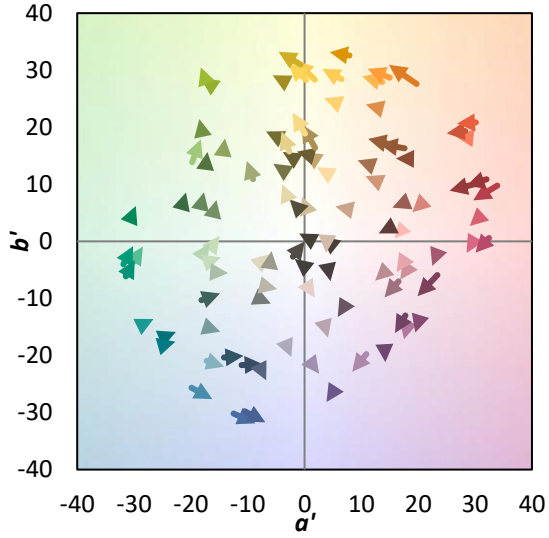


Color Vector Graphics









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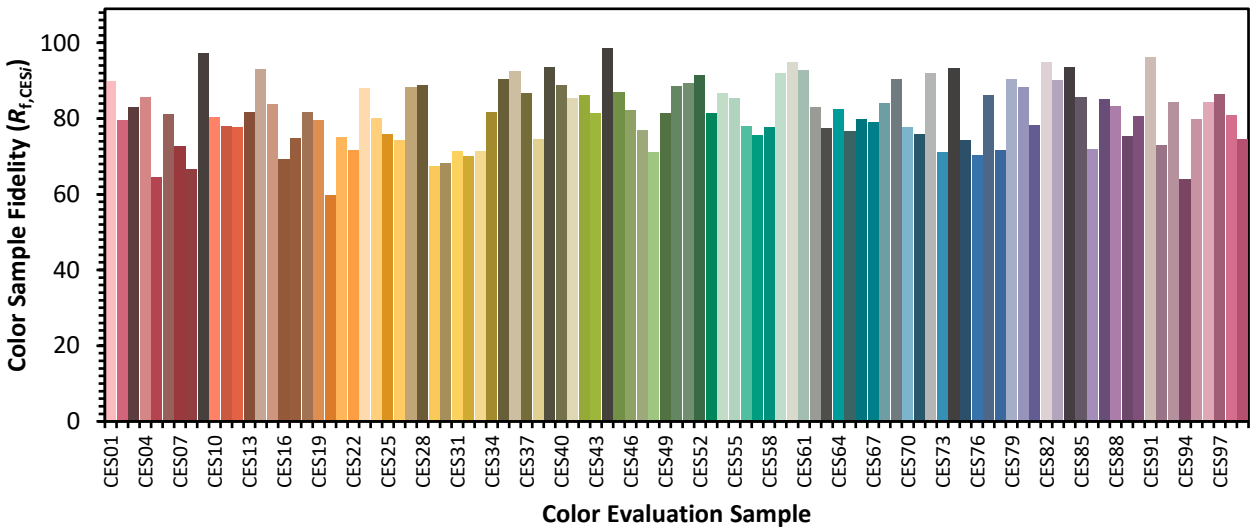
Individual Sample Fidelity Index ($R_{f,i}$)

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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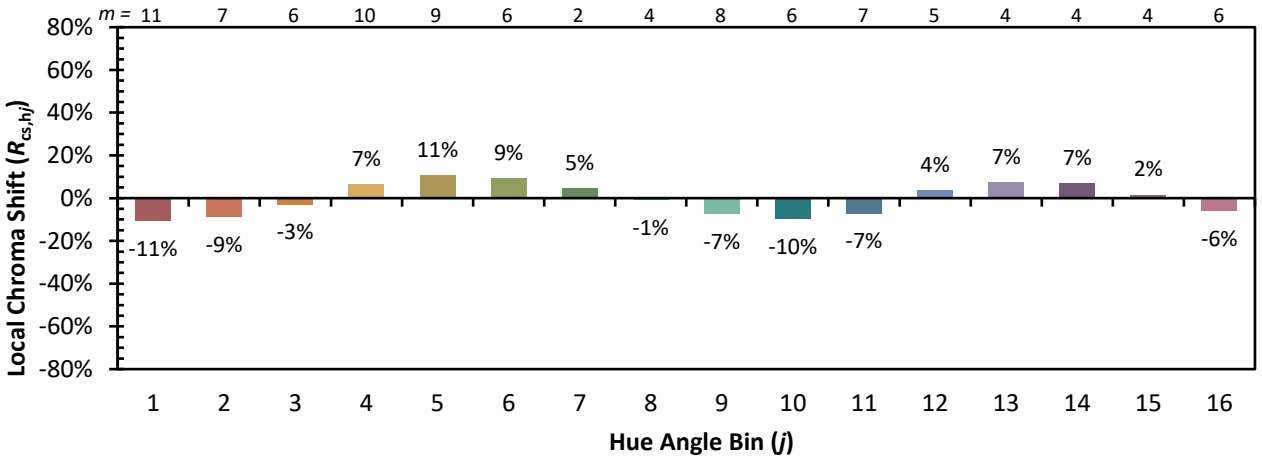
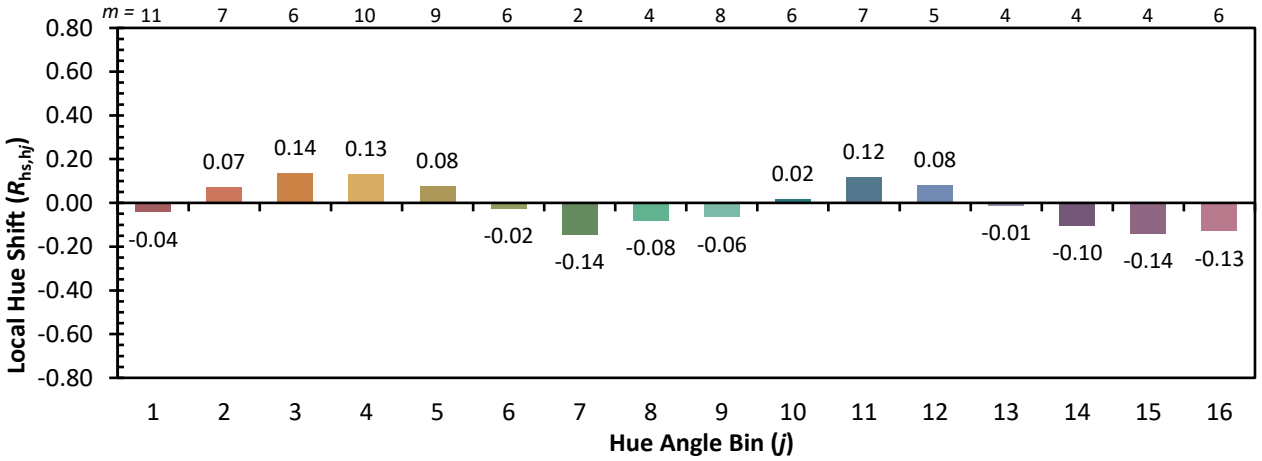
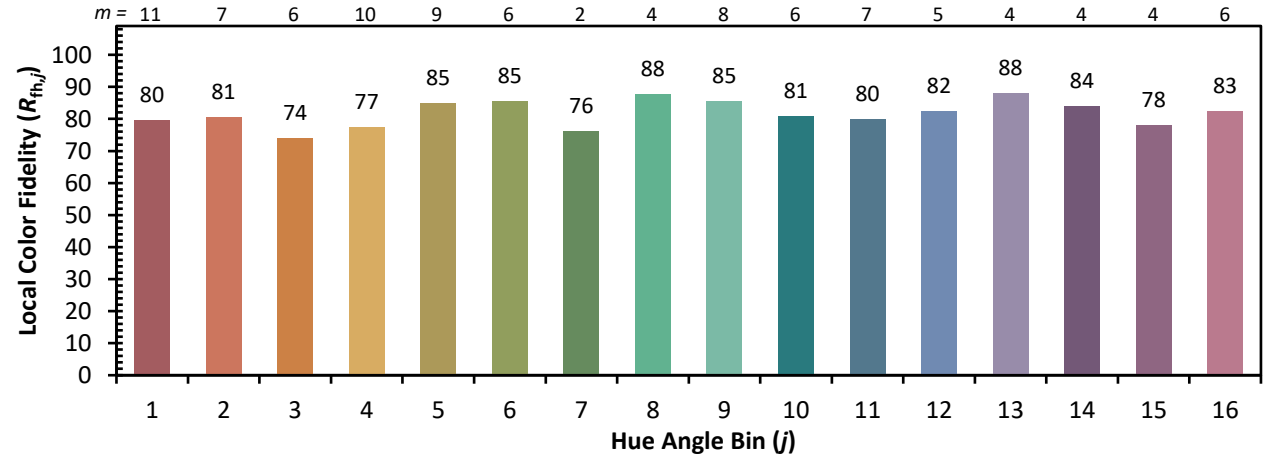
Color Rendition by Hue-Angle Bin







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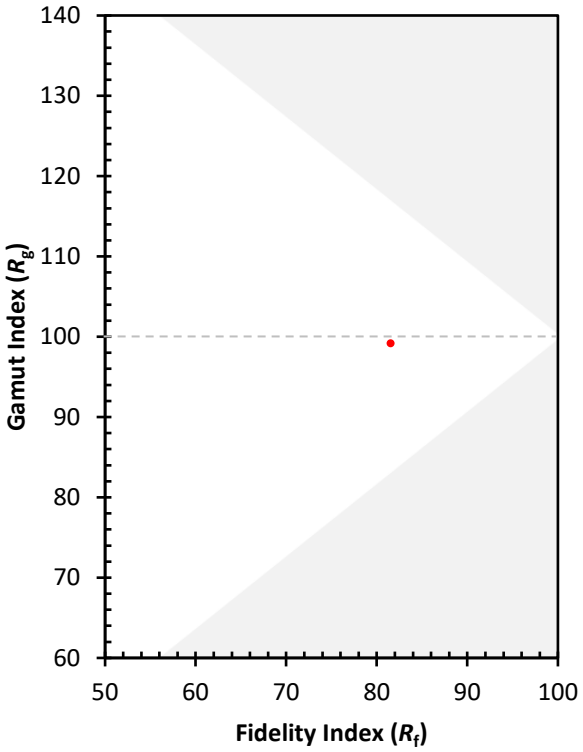
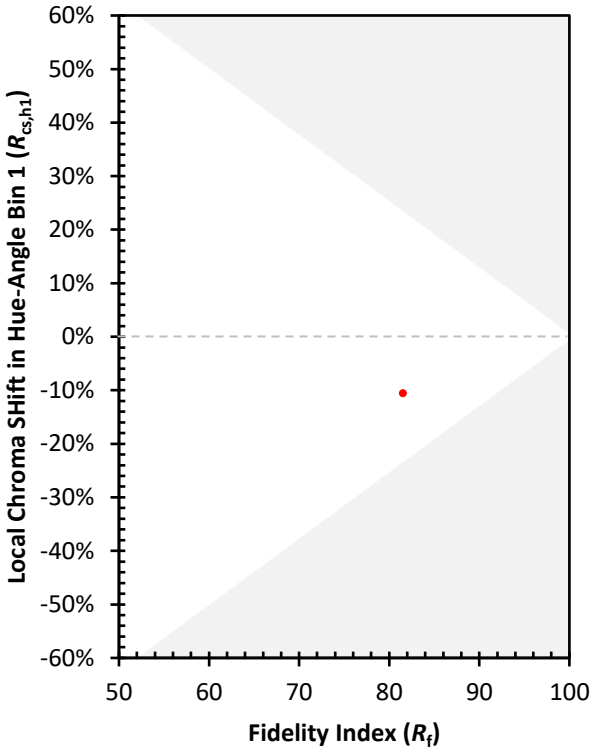
Measure Comparisons





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