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: P635035

Luminaire Tested: GWS-SA3C-830-U-T3R-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:	P635035
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
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-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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:	6950.1 lumens
Efficiency:	N/A
Efficacy:	74.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G0

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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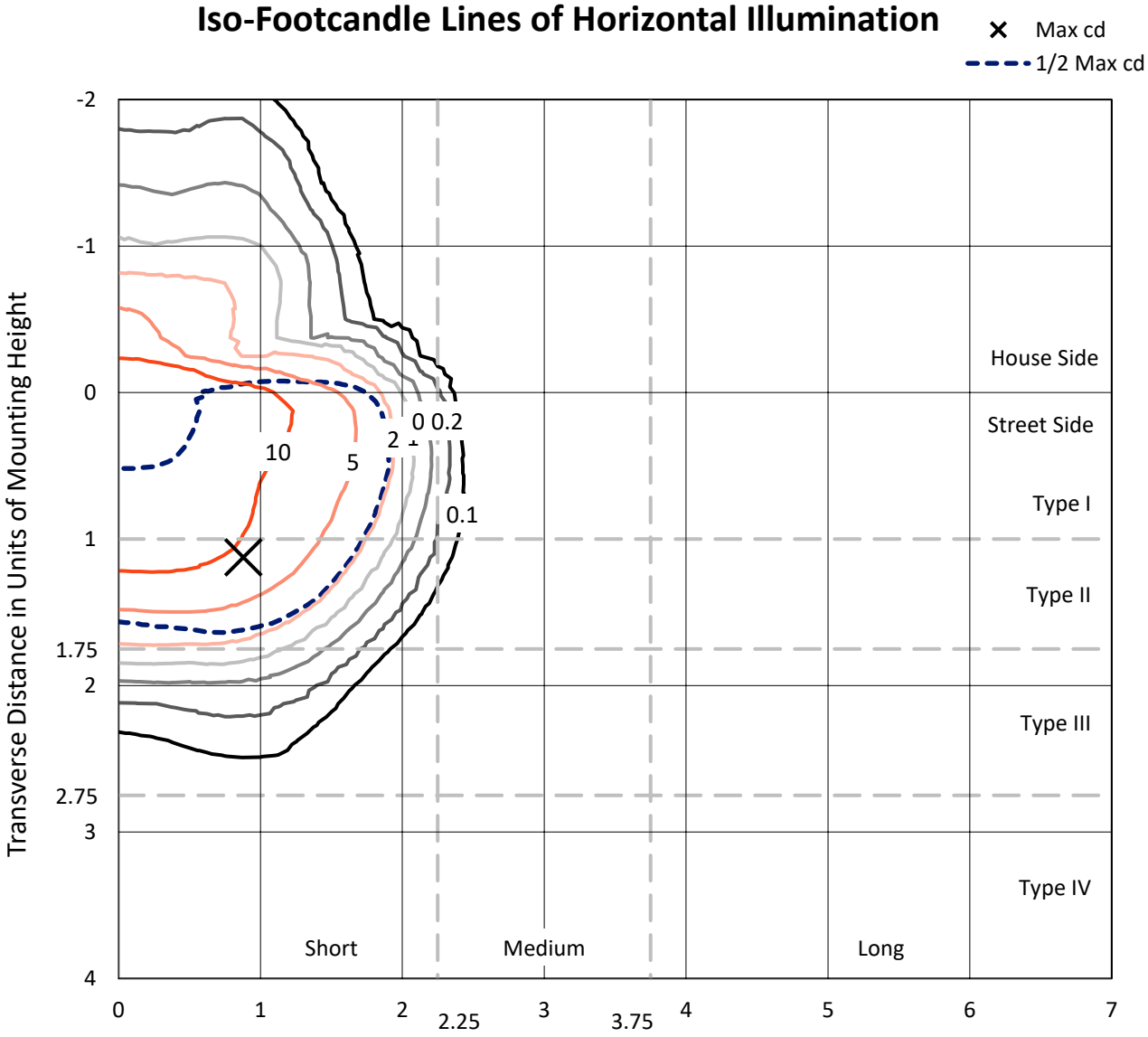
Scaled Data Report

REPORT NUMBER: P635035
CATALOG NUMBER: GWS-SA3C-830-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Short - N/A

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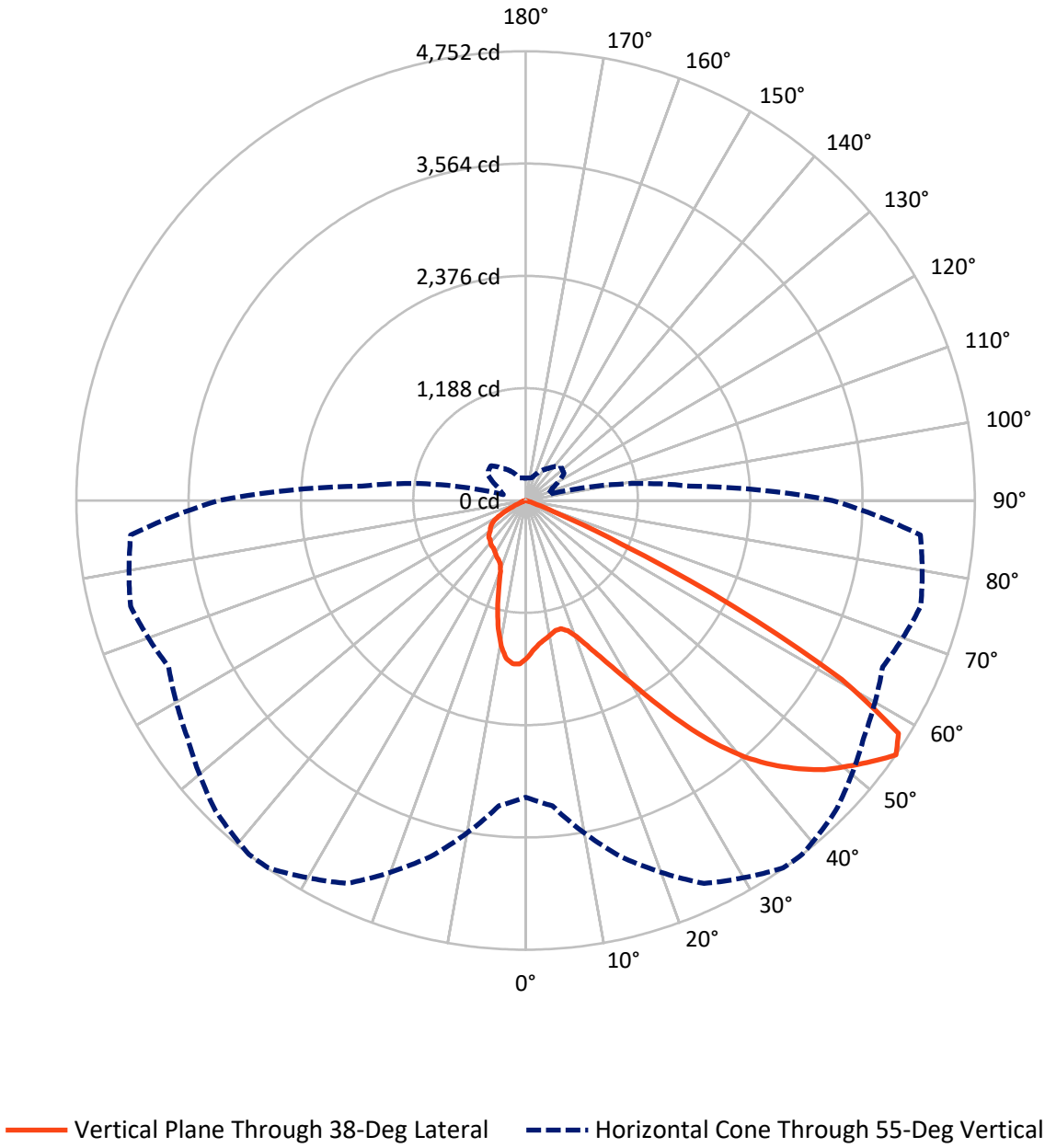
Luminous Intensity Polar Plot



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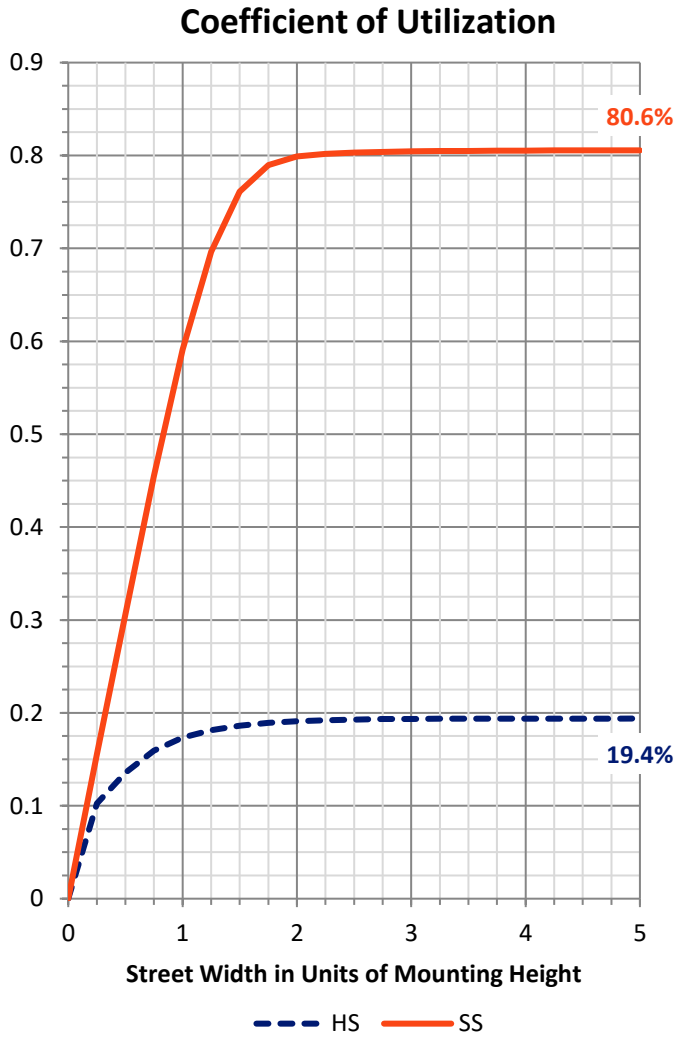
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1354.1	0.0	1354.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5596.0	0.0	5596.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	6950.1	0.0	6950.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	2.2
10°-20°	414.9	6.0
20°-30°	712.0	10.2
30°-40°	1180.8	17.0
40°-50°	1735.9	25.0
50°-60°	2028.4	29.2
60°-70°	687.6	9.9
70°-80°	35.2	0.5
80°-90°	1.4	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°	6950.1	100.0
0°-180°	6950.1	100.0



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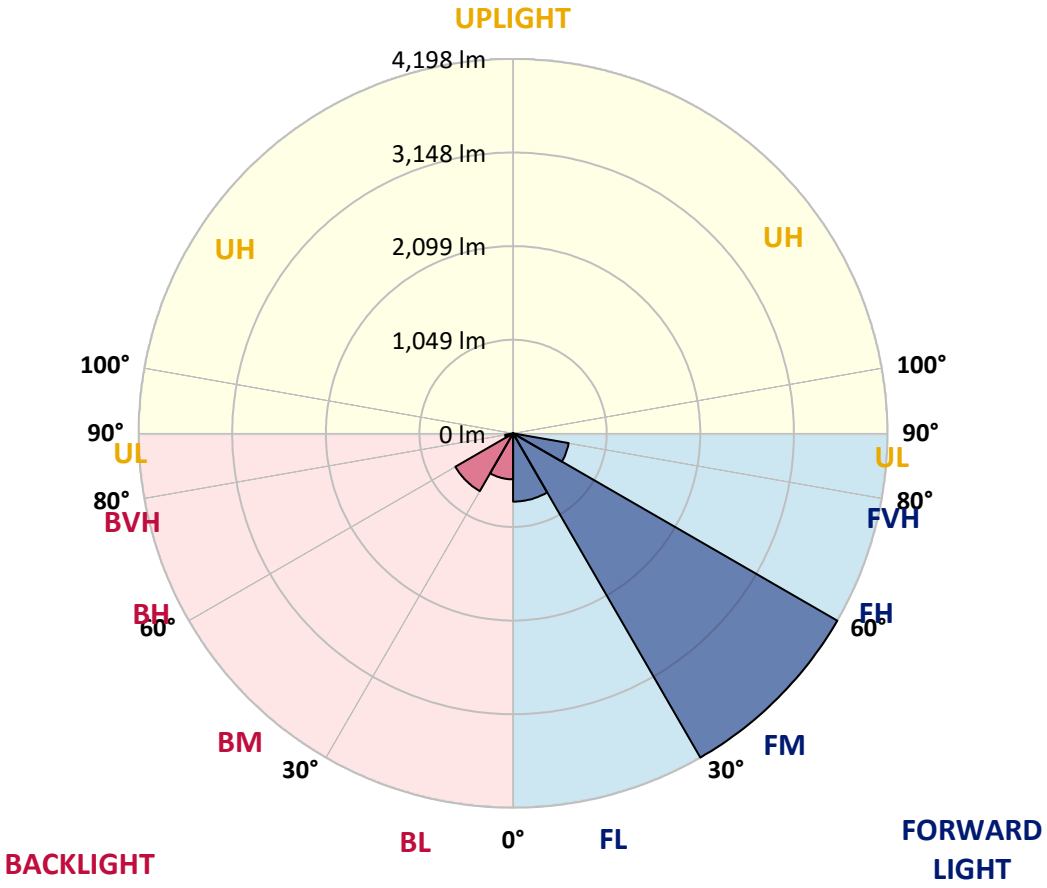
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	765.0	11.0			
FM	(30°-60°)	4197.7	60.4			
FH	(60°-80°)	632.6	9.1			G0/660
FVH	(80°-90°)	0.7	0.0			G0/10
BL	(0°-30°)	515.9	7.4	B2/1000		
BM	(30°-60°)	747.4	10.8	B1/1000		
BH	(60°-80°)	90.2	1.3	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: B2-U0-G0
Type II Short



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REPORT NUMBER: P635035
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1666.7	1666.7	1666.7	1666.7	1666.7	*1666.7*	1666.7	1666.7	1666.7	1666.7	1666.7
2.5°	1552.3	1549.1	1555.5	1568.2	1580.1	*1584.1*	1596.0	1612.7	1623.0	1647.6	1667.5
5°	1482.4	1480.8	1487.1	1498.3	1514.2	*1519.7*	1538.0	1565.8	1593.6	1636.5	1678.6
7.5°	1418.8	1418.0	1427.6	1452.2	1475.2	*1482.4*	1504.6	1538.8	1576.1	1642.1	1704.0
10°	1335.4	1336.2	1354.5	1389.4	1431.5	*1445.8*	1481.6	1530.8	1579.3	1664.3	1750.1
12.5°	1308.4	1310.0	1319.5	1346.5	1392.6	*1410.9*	1460.9	1535.6	1597.6	1696.1	1809.7
15°	1374.3	1374.3	1366.4	1369.6	1390.2	*1406.9*	1459.3	1551.5	1628.6	1734.2	1868.5
17.5°	1502.2	1497.5	1477.6	1450.6	1443.5	*1449.0*	1491.1	1585.7	1672.2	1778.7	1935.2
20°	1675.4	1677.0	1638.1	1581.7	1536.4	*1535.6*	1561.0	1646.0	1735.0	1831.9	2007.5
22.5°	1885.2	1878.8	1827.2	1750.1	1671.5	*1665.1*	1675.4	1738.2	1825.6	1916.1	2096.5
25°	2128.2	2125.1	2052.0	1948.7	1844.6	*1829.5*	1829.5	1891.5	1955.1	2036.1	2202.9
27.5°	2382.5	2382.5	2311.8	2192.6	2054.4	*2027.4*	2023.4	2096.5	2138.6	2154.5	2292.7
30°	2643.8	2640.6	2570.7	2448.4	2300.6	*2272.8*	2261.7	2315.7	2345.9	2298.2	2404.7
32.5°	2909.2	2914.7	2844.0	2730.4	2598.5	*2580.3*	2546.1	2546.1	2570.7	2504.0	2581.1
35°	3194.4	3192.8	3137.2	3060.1	2947.3	*2926.6*	2870.2	2782.0	2819.4	2790.0	2824.9
37.5°	3446.2	3458.1	3431.1	3373.9	3282.5	*3261.9*	3168.9	3009.3	3037.9	3083.9	3114.9
40°	3702.0	3711.5	3738.5	3720.3	3605.1	*3566.9*	3401.7	3139.5	3171.3	3329.4	3418.4
42.5°	3953.0	3957.8	4012.6	4042.8	3888.7	*3821.9*	3578.1	3219.0	3252.3	3521.7	3677.4
45°	4112.7	4123.0	4213.6	4305.7	4138.9	*4047.6*	3731.4	3320.7	3335.0	3655.1	3868.8
47.5°	4106.3	4130.2	4300.2	4467.8	4354.2	*4255.7*	3915.7	3483.5	3459.7	3780.6	3995.1
50°	3978.4	4007.0	4250.9	4517.1	4509.1	*4417.8*	4120.6	3719.5	3644.8	3891.8	4011.0
52.5°	3713.1	3795.7	4164.3	4523.4	4633.8	*4587.8*	4374.1	4037.2	3895.0	4051.5	4036.4
55°	*3139.5*	*3241.2*	*3901.4*	*4469.4*	*4746.6*	*4752.2*	*4640.2*	*4368.5*	*4166.7*	*4326.4*	*4192.9*
57.5°	2383.3	2464.3	3002.9	3978.4	4560.0	*4651.3*	4743.5	4543.3	4334.3	4513.9	4229.5
60°	1436.3	1530.0	1880.4	2919.5	3682.9	*3838.6*	4200.1	4161.2	3909.3	3986.4	3468.4
62.5°	582.3	631.6	868.3	1608.7	2318.1	*2463.5*	2809.9	2868.6	2806.7	2728.0	2103.6
65°	212.9	232.8	348.0	664.9	1066.1	*1119.3*	1302.0	1406.1	1491.9	1270.3	782.5
67.5°	131.9	144.6	226.4	341.6	387.7	*360.7*	367.0	437.7	417.9	258.2	139.8
70°	97.7	108.0	177.2	236.7	156.5	*120.8*	81.8	87.4	78.6	69.1	68.3
72.5°	67.5	77.1	132.7	139.8	60.4	*42.9*	30.2	42.1	47.7	46.9	48.5
75°	44.5	51.6	83.4	54.8	15.1	*11.9*	10.3	22.2	28.6	28.6	29.4
77.5°	26.2	30.2	29.4	11.1	3.2	*3.2*	2.4	4.0	6.4	7.1	8.7
80°	3.2	2.4	1.6	1.6	1.6	*1.6*	1.6	1.6	2.4	2.4	2.4
82.5°	0.8	0.8	0.8	1.6	1.6	*1.6*	1.6	1.6	1.6	2.4	2.4
85°	0.0	0.0	0.8	0.8	1.6	*1.6*	1.6	1.6	1.6	2.4	2.4
87.5°	0.0	0.0	0.8	0.8	1.6	*1.6*	1.6	1.6	1.6	2.4	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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Scaled Data Report

REPORT NUMBER: P635035
CATALOG NUMBER: GWS-SA3C-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1666.7	1666.7	1666.7	1666.7	1666.7	1666.7	1666.7	1666.7	1666.7	1666.7	1666.7
2.5°	1682.6	1677.0	1700.1	1716.7	1730.2	1736.6	1727.9	1727.1	1727.1	1709.6	1704.8
5°	1702.4	1704.8	1737.4	1751.7	1754.1	1746.1	1726.3	1712.8	1704.8	1686.5	1676.2
7.5°	1740.6	1748.5	1779.5	1777.1	1755.7	1719.1	1666.7	1626.2	1600.0	1571.4	1553.9
10°	1795.4	1810.5	1829.5	1796.2	1727.9	1634.9	1526.9	1449.8	1403.7	1371.2	1351.3
12.5°	1862.1	1877.2	1870.9	1792.2	1650.0	1484.0	1344.9	1233.7	1180.5	1151.1	1130.5
15°	1929.6	1939.2	1897.9	1744.5	1512.6	1289.3	1134.4	1024.0	958.9	935.0	917.6
17.5°	1998.8	1996.4	1902.6	1650.8	1329.1	1070.1	917.6	842.1	823.8	819.8	818.2
20°	2071.0	2049.6	1883.6	1516.5	1108.2	853.2	766.6	771.4	804.7	820.6	823.8
22.5°	2153.7	2099.6	1835.9	1334.6	882.6	711.0	719.7	766.6	811.9	833.3	836.5
25°	2241.8	2145.7	1756.5	1101.1	695.9	653.8	705.4	759.5	807.9	834.1	837.3
27.5°	2299.8	2156.8	1626.2	865.9	597.4	631.6	686.4	738.0	788.1	816.7	820.6
30°	2362.6	2152.1	1449.0	667.3	564.0	612.5	660.2	707.0	753.1	784.9	788.1
32.5°	2454.7	2148.9	1232.9	541.8	550.5	597.4	632.4	671.3	703.1	721.3	718.9
35°	2575.5	2144.9	981.1	488.6	542.6	585.5	613.3	631.6	596.6	585.5	587.9
37.5°	2730.4	2154.5	769.0	466.3	540.2	582.3	606.1	553.7	499.7	479.0	475.9
40°	2902.0	2179.1	586.3	457.6	548.1	590.3	579.1	492.5	425.8	385.3	376.6
42.5°	3074.4	2206.1	463.9	454.4	561.7	612.5	534.6	448.1	348.0	324.9	321.7
45°	3202.3	2201.3	401.2	448.8	573.6	625.2	522.7	384.5	310.6	300.3	301.1
47.5°	3266.6	2148.9	367.0	436.1	578.3	612.5	493.3	358.3	285.2	296.3	305.9
50°	3232.5	2013.1	335.2	411.5	568.0	595.8	446.5	338.4	272.5	318.6	340.0
52.5°	3191.2	1846.2	300.3	373.4	543.4	572.8	428.2	332.9	264.5	307.4	323.3
55°	*3246.0*	*1740.6*	*243.1*	*314.6*	*494.9*	*518.8*	*413.9*	*332.1*	*246.3*	*239.1*	*236.7*
57.5°	3168.9	1530.0	174.0	226.4	379.7	410.7	403.6	326.5	218.5	217.7	220.8
60°	2449.2	933.4	119.2	143.8	232.8	262.2	366.2	312.2	188.3	173.2	174.0
62.5°	1391.8	397.2	81.8	89.0	119.2	141.4	279.6	283.6	174.0	165.2	174.0
65°	484.6	142.2	63.6	59.6	65.9	75.5	160.5	219.3	158.1	143.0	144.6
67.5°	100.1	70.7	56.4	49.3	49.3	49.3	81.8	136.6	130.3	113.6	115.2
70°	63.6	60.4	49.3	42.1	40.5	37.3	46.9	75.5	89.8	82.6	83.4
72.5°	46.9	46.1	38.9	34.2	30.2	27.0	29.4	37.3	46.1	47.7	48.5
75°	28.6	29.4	25.4	21.4	19.1	16.7	17.5	17.5	17.5	15.9	17.5
77.5°	8.7	9.5	7.9	6.4	5.6	5.6	5.6	4.8	4.0	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.0	0.0
82.5°	2.4	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.0	0.0	0.0
85°	2.4	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.0	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	1.6	1.6	0.8	0.8	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

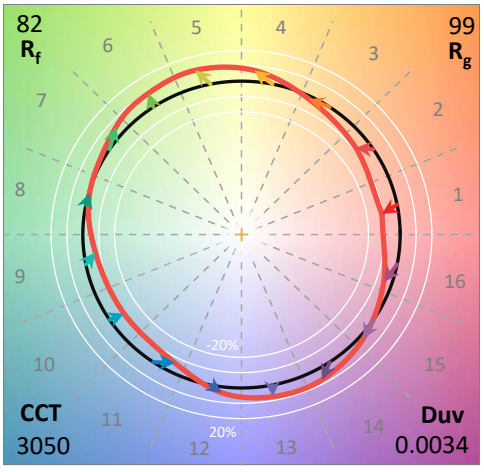
Test Information

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

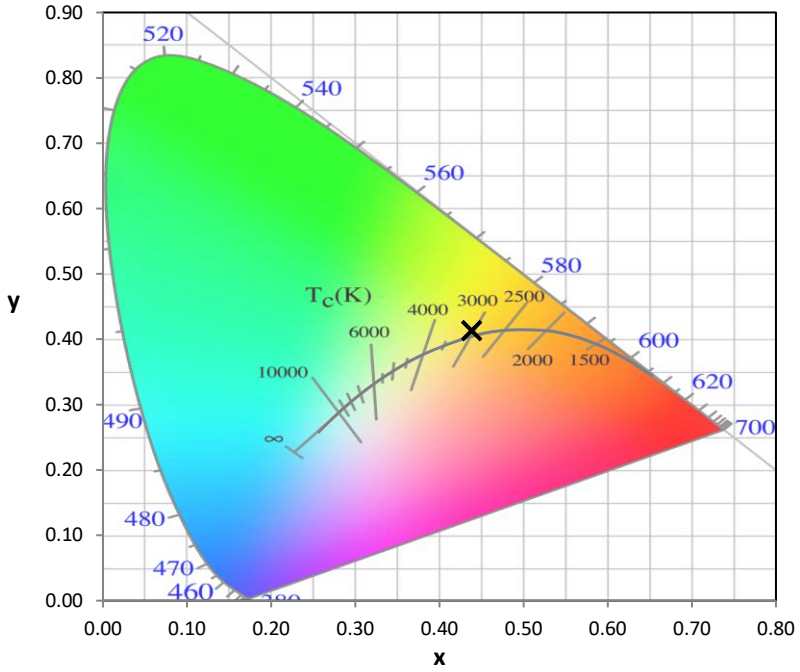
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

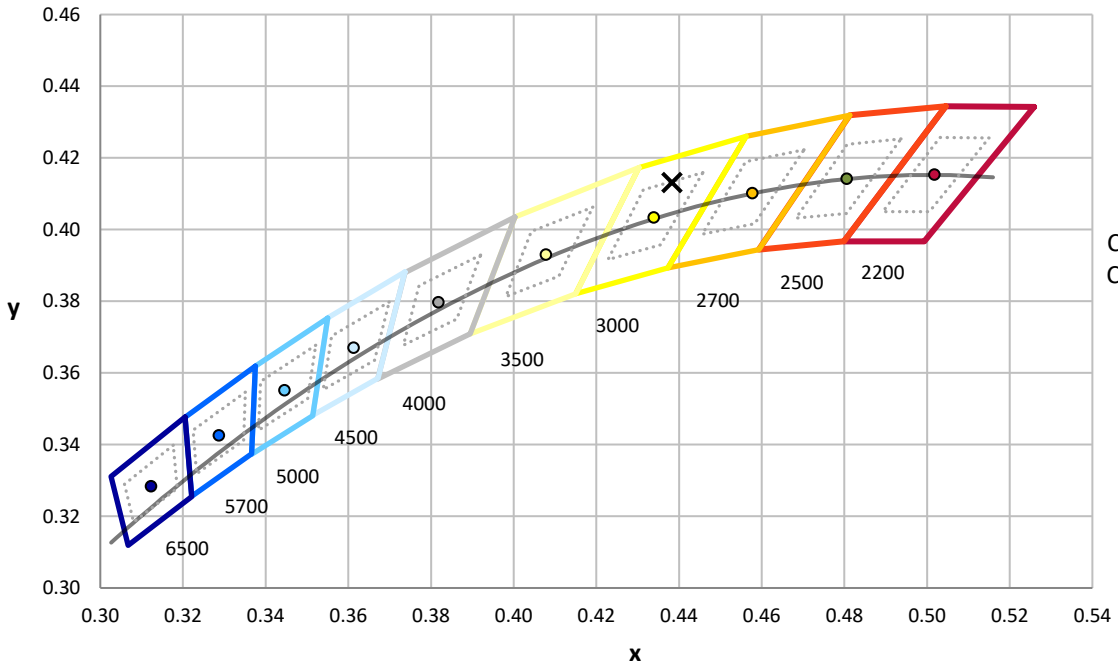
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

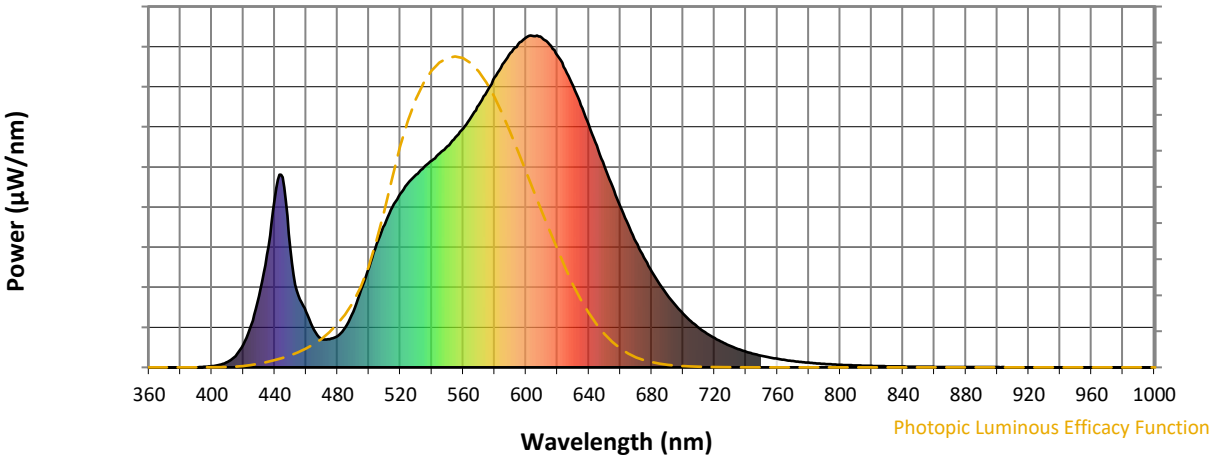


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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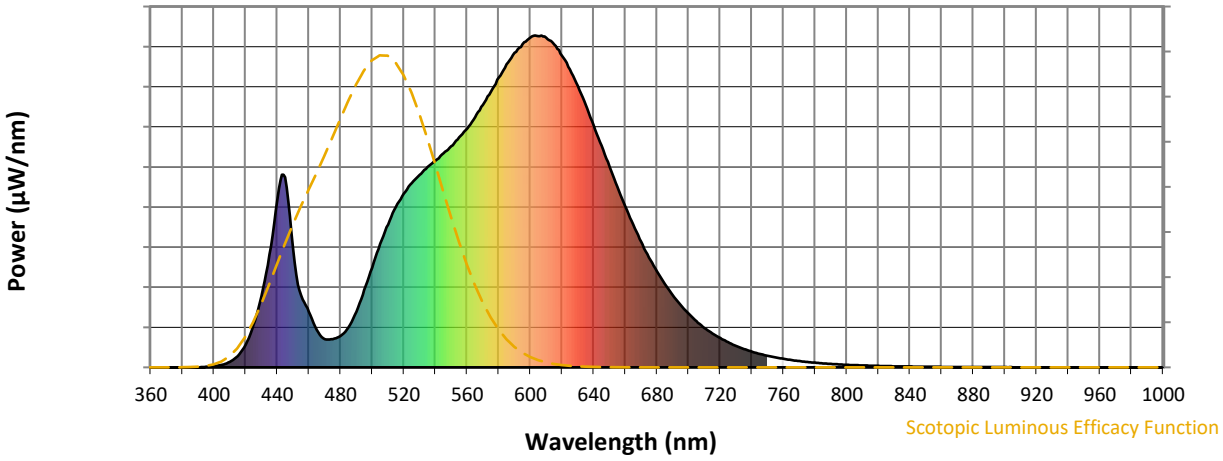
Scotopic Flux vs. Wavelength



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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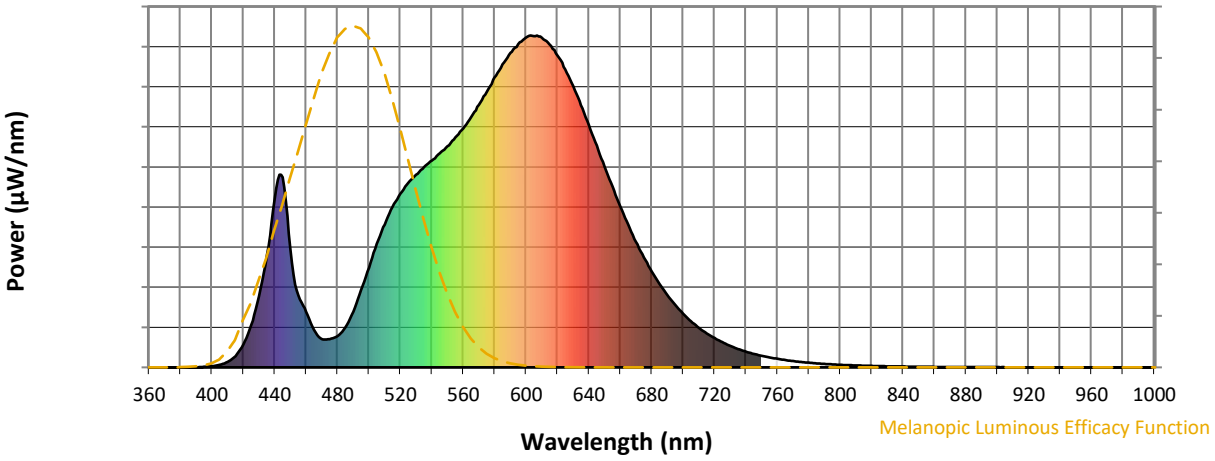
Melanopic Flux vs. Wavelength



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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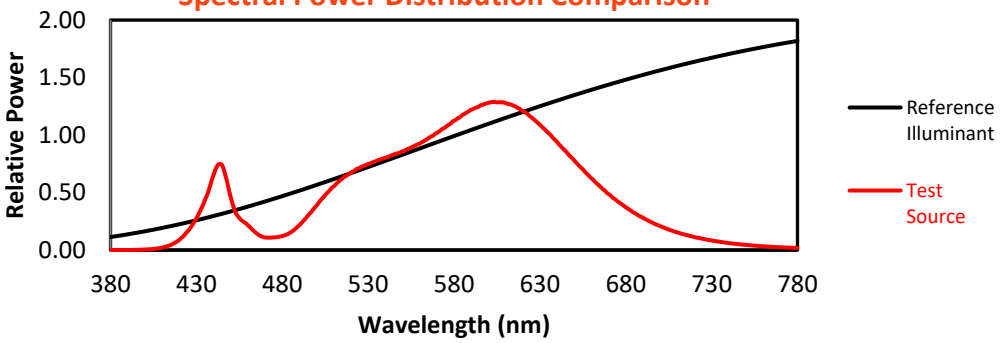
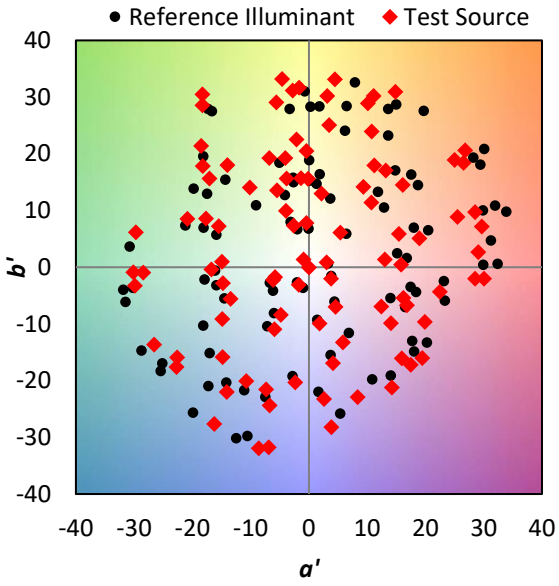
Summary

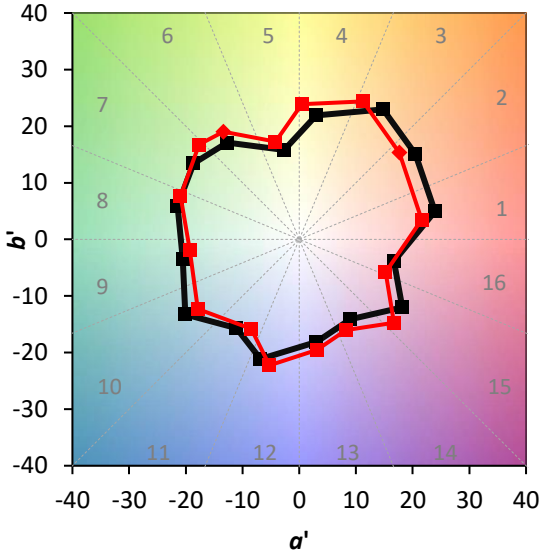
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

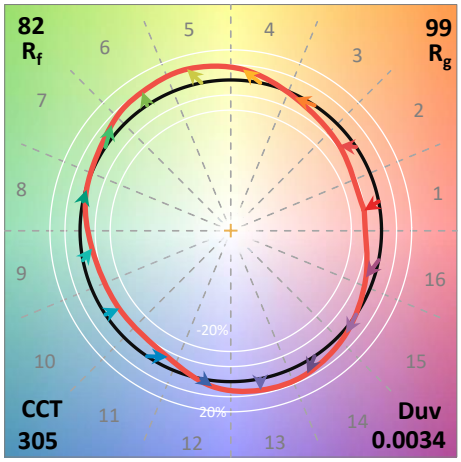
Spectral Power Distribution Comparison

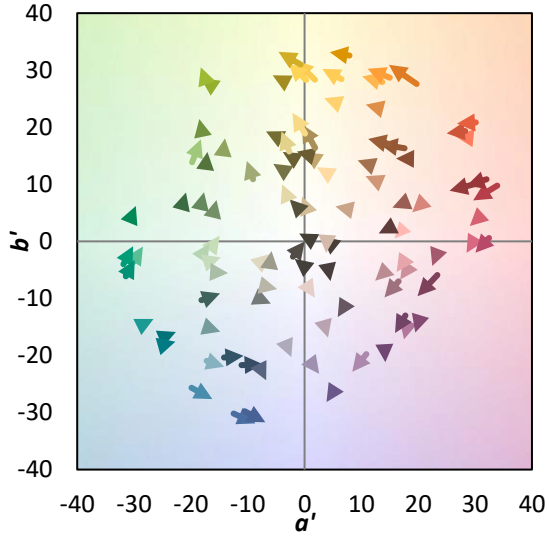


Color Vector Graphics









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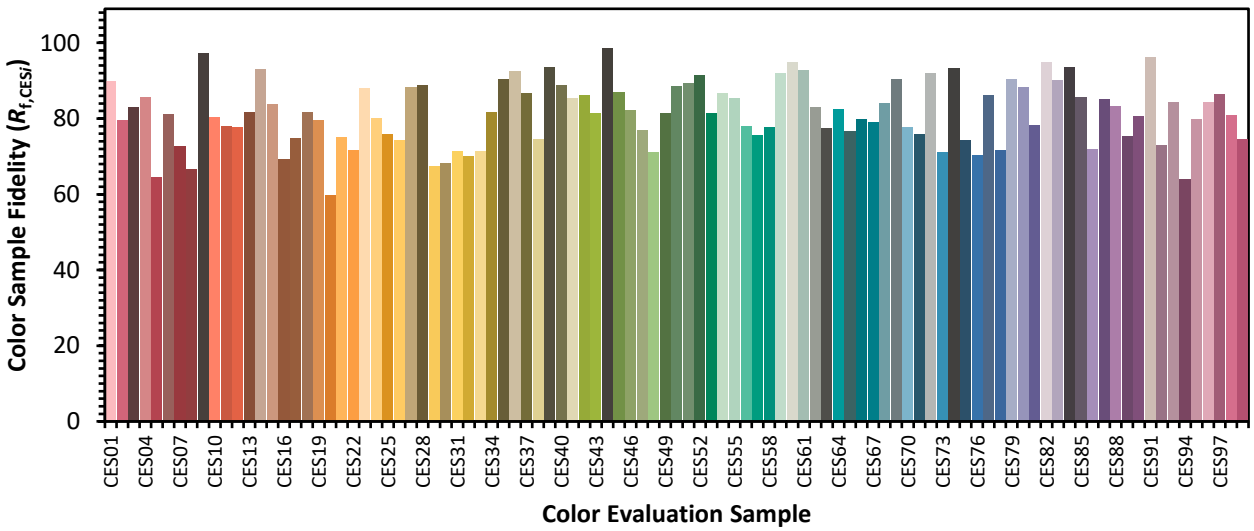
Individual Sample Fidelity Index ($R_{f,i}$)

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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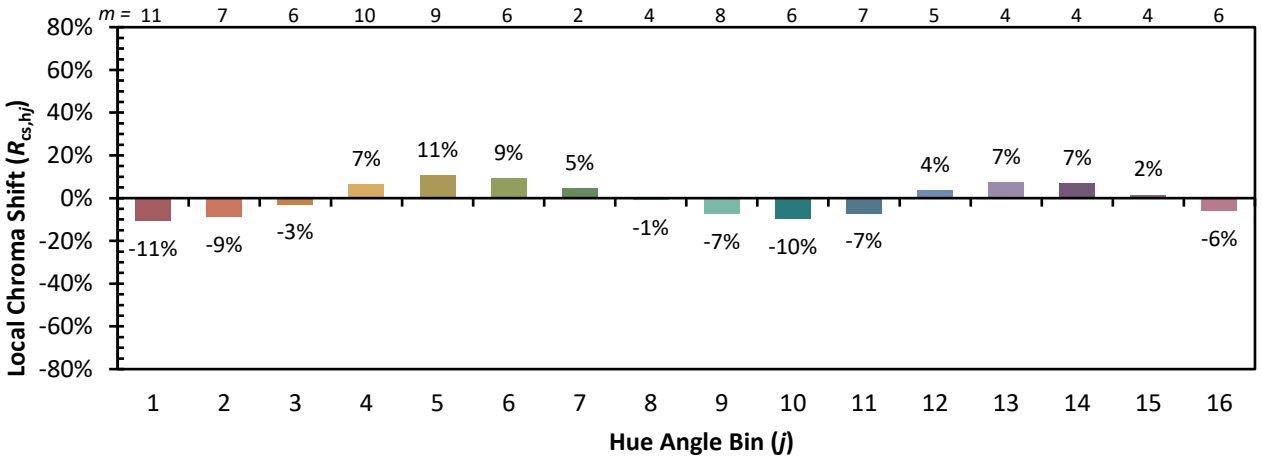
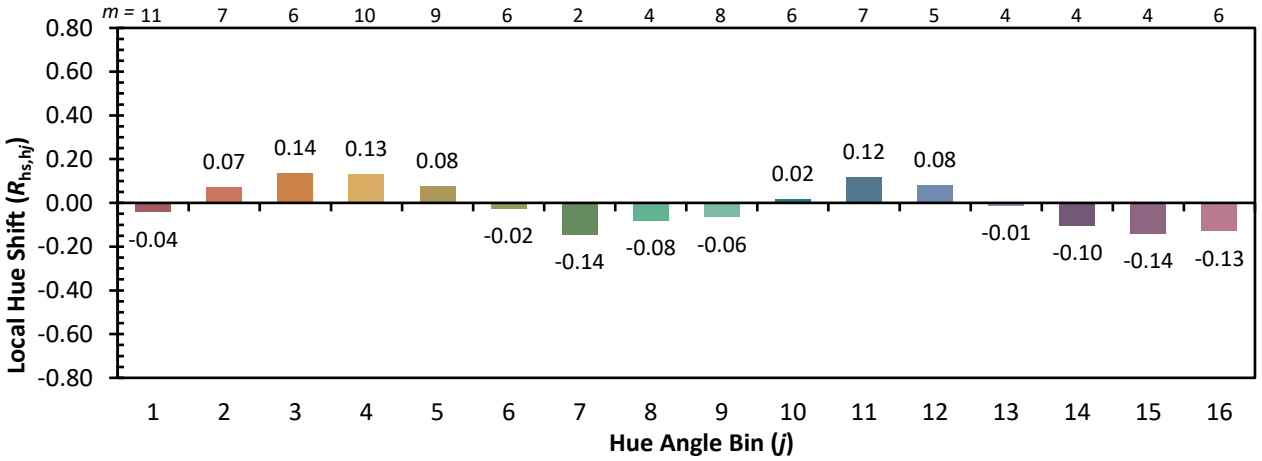
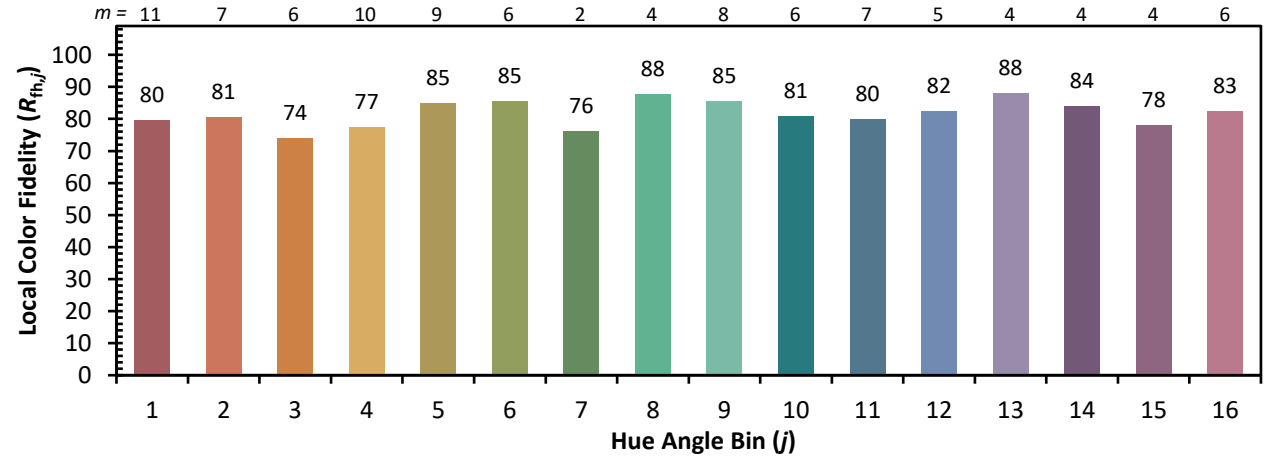
Color Rendition by Hue-Angle Bin







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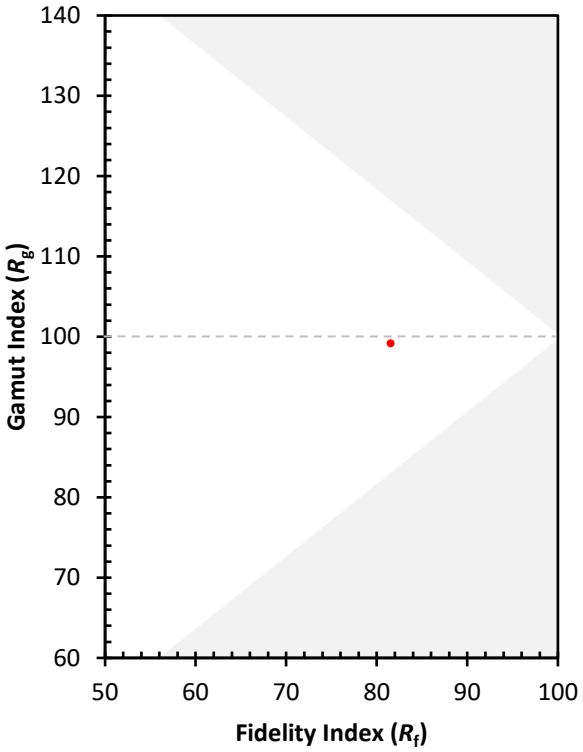
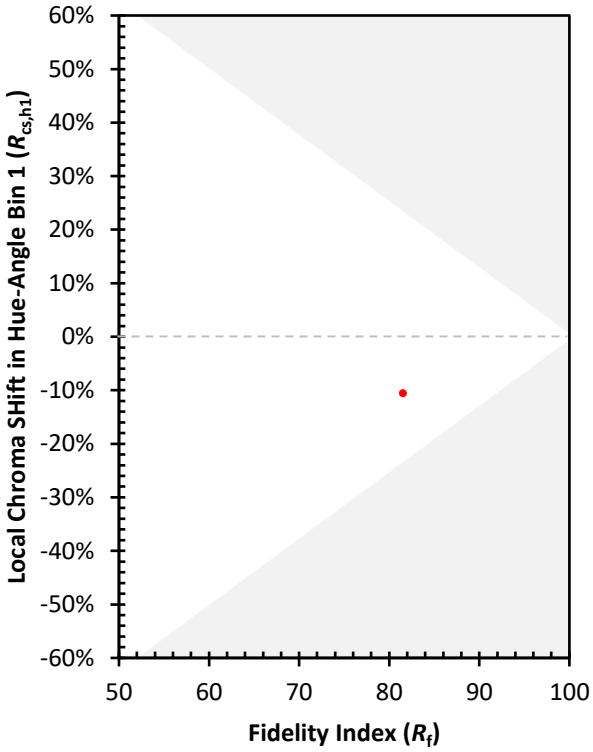
Measure Comparisons





(END OF REPORT)