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: P632553

Luminaire Tested: GWS-SA2C-830-U-T2R-W-GRSWH

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:	P632553
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6470.8 lumens
Efficiency:	N/A
Efficacy:	102.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

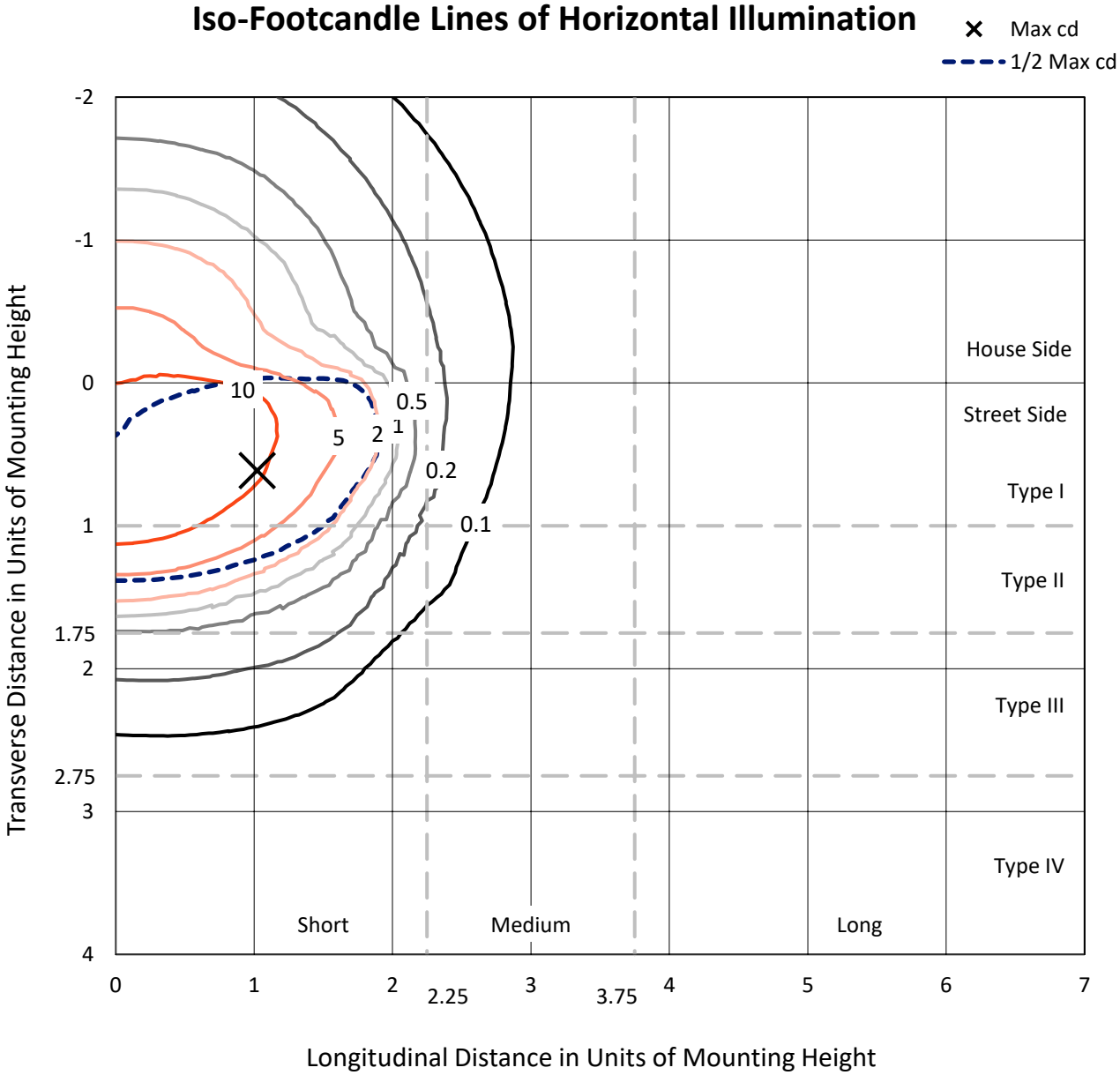
Input Watts (W):	63.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P632553
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



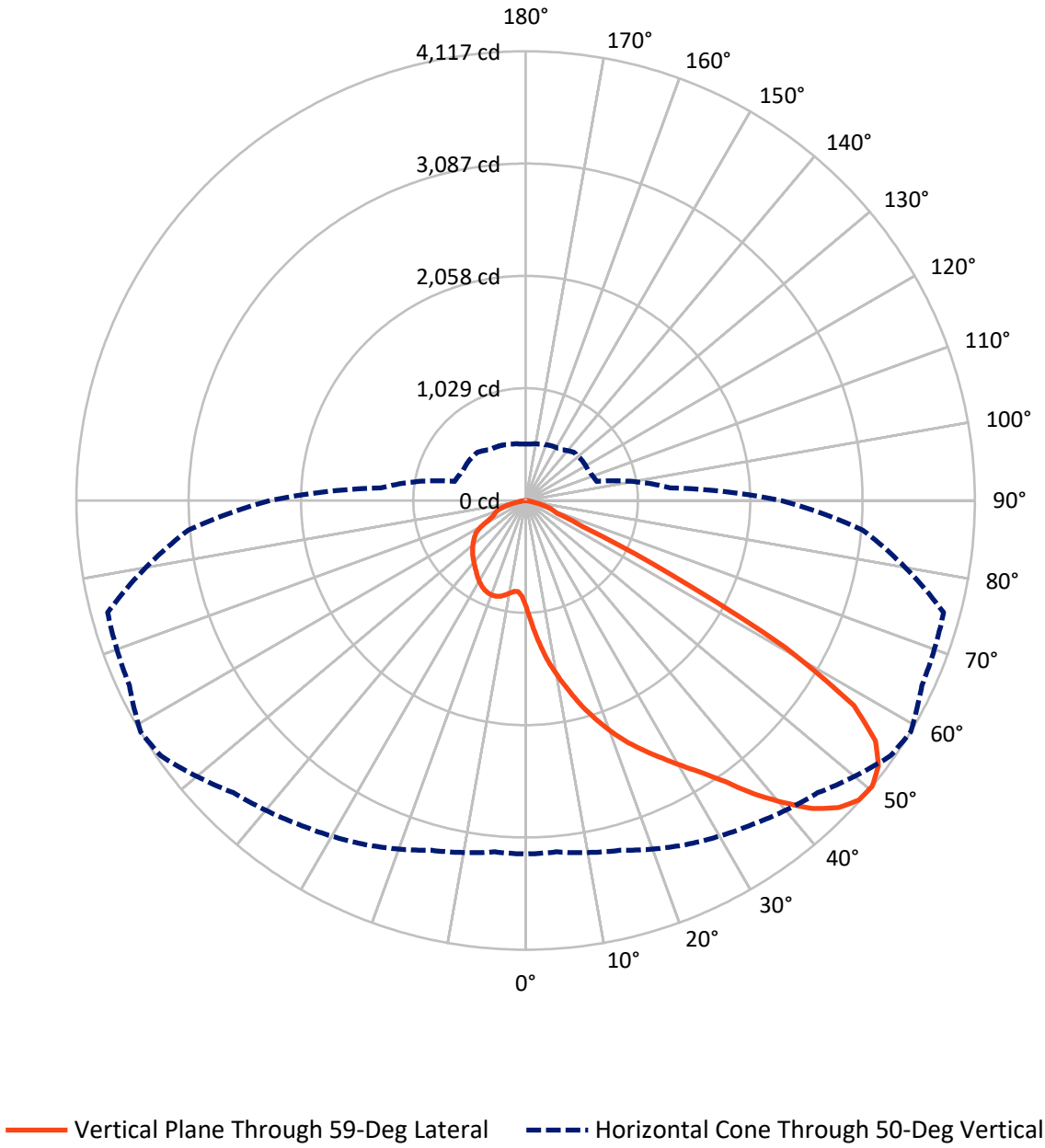
Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
Type II - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P632553
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

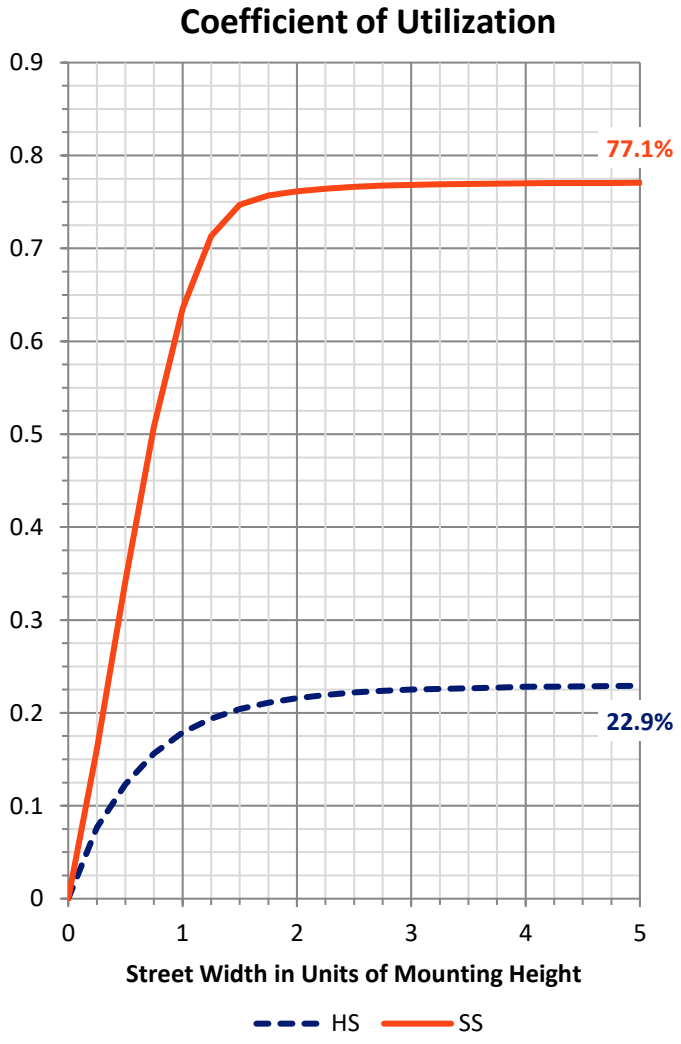
REPORT NUMBER: P632553
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.4	0.0	1488.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4982.4	0.0	4982.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	6470.8	0.0	6470.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	1.7
10°-20°	399.3	6.2
20°-30°	756.0	11.7
30°-40°	1253.7	19.4
40°-50°	1712.6	26.5
50°-60°	1554.6	24.0
60°-70°	517.7	8.0
70°-80°	151.0	2.3
80°-90°	15.9	0.2
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°	6470.8	100.0
0°-180°	6470.8	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

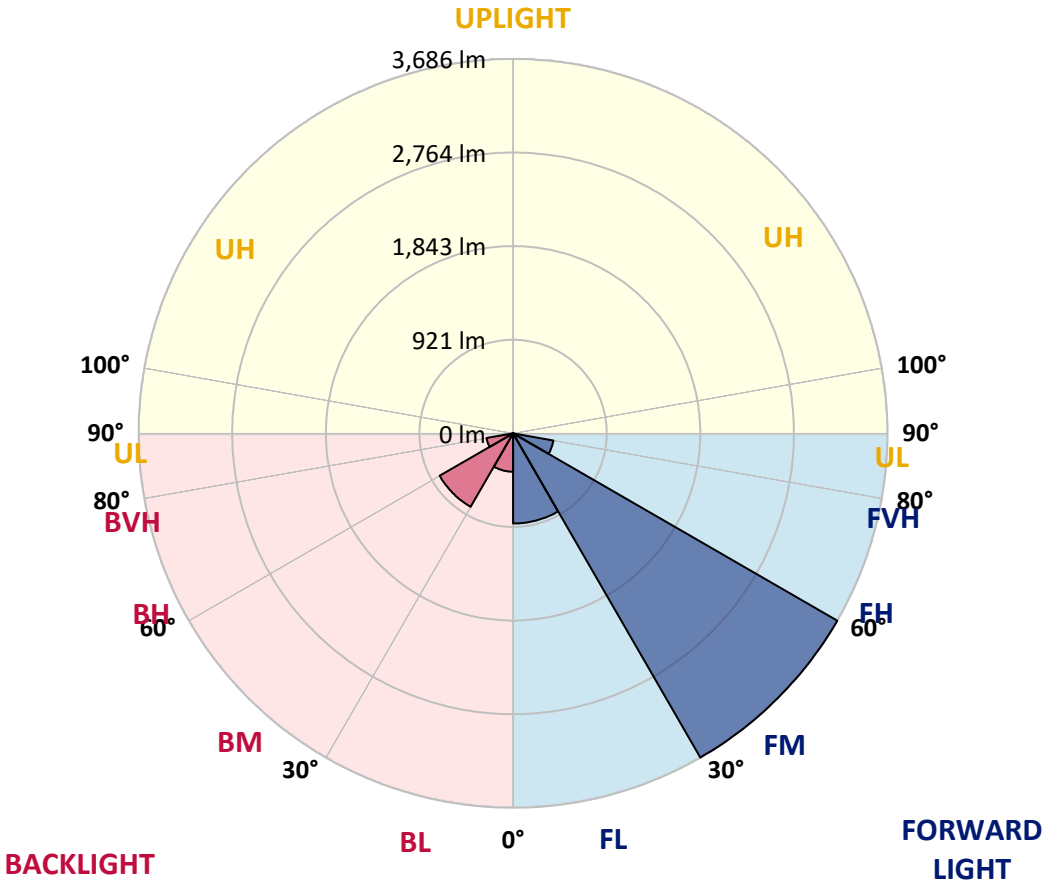
Scaled Data Report

REPORT NUMBER: P632553
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	887.3	13.7			
FM	(30°-60°)	3685.8	57.0			
FH	(60°-80°)	403.0	6.2			G0/660
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	377.9	5.8	B1/500		
BM	(30°-60°)	835.1	12.9	B1/1000		
BH	(60°-80°)	265.7	4.1	B1/500		G1/500
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P632553
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	980.4	980.4	980.4	980.4	980.4	980.4	980.4	*980.4*	980.4	980.4	980.4
2.5°	1270.3	1279.8	1265.0	1266.1	1229.2	1212.3	1164.9	*1136.9*	1118.5	1066.8	1019.9
5°	1526.4	1515.4	1503.8	1496.9	1464.8	1419.4	1360.4	*1313.5*	1270.3	1169.1	1071.6
7.5°	1683.5	1677.7	1669.8	1665.6	1634.0	1586.5	1527.5	*1487.4*	1424.7	1287.7	1134.3
10°	1816.9	1810.0	1805.3	1808.4	1782.6	1752.0	1687.7	*1641.9*	1571.2	1413.1	1210.2
12.5°	1920.2	1923.8	1925.4	1942.3	1931.2	1912.8	1846.4	*1797.9*	1719.3	1545.4	1299.3
15°	2001.9	2000.8	2019.2	2051.4	2069.3	2057.7	2004.5	*1963.9*	1868.0	1675.6	1395.2
17.5°	2020.8	2021.9	2050.9	2107.3	2165.8	2194.2	2164.2	*2115.7*	2020.8	1804.2	1494.8
20°	2036.1	2038.2	2068.3	2132.6	2218.0	2297.5	2302.3	*2267.5*	2185.8	1943.4	1596.0
22.5°	2132.6	2137.3	2145.2	2185.8	2262.8	2363.4	2418.8	*2411.4*	2342.9	2089.4	1705.1
25°	2386.1	2371.9	2333.4	2321.8	2351.3	2433.0	2527.4	*2541.6*	2507.9	2250.1	1822.6
27.5°	2699.2	2683.9	2627.0	2566.9	2503.1	2531.6	2632.2	*2674.9*	2675.5	2427.2	1940.7
30°	2983.3	2971.2	2924.8	2838.9	2728.7	2687.6	2761.9	*2819.4*	2853.6	2631.7	2075.1
32.5°	3226.3	3215.2	3152.5	3082.4	2974.8	2892.1	2919.0	*2974.3*	3054.4	2896.3	2242.2
35°	3430.8	3419.7	3359.6	3289.0	3189.4	3139.8	3130.3	*3168.3*	3272.1	3172.5	2434.1
37.5°	3596.8	3585.7	3523.0	3456.6	3380.7	3383.9	3398.1	*3416.5*	3476.1	3468.2	2639.1
40°	3704.3	3692.7	3647.9	3600.5	3552.5	3590.5	3661.1	*3639.0*	3670.6	3707.0	2827.8
42.5°	3752.3	3737.5	3711.7	3701.2	3686.4	3745.4	3881.4	*3859.3*	3821.3	3866.1	2968.0
45°	3704.3	3691.7	3691.2	3723.3	3757.6	3833.5	4033.8	*4015.8*	3919.9	3943.1	3051.8
47.5°	3557.3	3546.2	3576.2	3660.6	3744.9	3855.6	4101.7	*4104.9*	3990.0	3975.3	3106.1
50°	*3239.4*	*3232.1*	*3319.0*	*3478.7*	*3624.2*	*3786.6*	*4080.1*	*4116.5*	*4006.9*	*3965.2*	*3099.2*
52.5°	2593.2	2627.5	2816.7	3083.4	3365.9	3665.3	4000.0	*4047.5*	3925.7	3899.4	3062.3
55°	1775.2	1791.0	1980.2	2369.8	2817.8	3402.8	3816.1	*3889.3*	3829.8	3888.3	3100.8
57.5°	919.2	931.9	1081.0	1426.8	1911.2	2689.2	3305.3	*3545.7*	3636.3	3944.2	3220.5
60°	377.4	387.9	449.6	616.7	964.0	1566.0	2378.7	*2735.0*	2948.0	3602.1	2859.9
62.5°	274.1	279.4	308.9	367.9	504.9	767.4	1346.2	*1477.4*	1627.1	2257.5	1815.8
65°	230.9	236.7	260.4	296.2	368.4	470.7	575.0	*578.2*	637.2	919.8	673.1
67.5°	193.4	198.7	219.8	250.4	297.8	334.2	308.9	*309.4*	308.3	333.6	322.6
70°	150.7	155.0	176.0	208.7	233.5	214.5	241.4	*267.2*	256.2	266.2	281.5
72.5°	110.2	114.9	133.4	158.1	151.8	152.9	195.5	*221.9*	215.6	226.6	240.9
75°	79.6	82.8	92.2	79.1	83.3	100.7	137.6	*151.8*	158.1	167.6	180.3
77.5°	25.8	25.8	29.0	36.4	45.3	55.9	70.1	*75.9*	85.4	95.9	104.9
80°	13.2	13.7	16.3	20.0	25.3	32.2	41.1	*43.7*	48.5	54.3	58.0
82.5°	6.3	6.9	7.9	10.0	13.2	16.9	22.7	*25.3*	28.5	32.2	34.8
85°	1.6	1.6	2.1	3.2	4.2	6.3	8.4	*10.0*	12.6	15.3	16.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	*2.1*	2.6	3.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P632553
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4
2.5°	998.8	969.3	931.4	899.2	869.7	847.0	827.5	818.0	809.1	802.7	804.9
5°	1026.2	975.6	905.0	856.0	825.9	810.7	800.1	794.8	793.8	789.6	788.0
7.5°	1066.3	994.1	899.7	850.2	830.2	822.2	816.4	813.3	814.9	810.7	809.1
10°	1115.8	1024.6	912.9	869.2	851.8	846.0	839.6	835.4	833.3	827.0	825.9
12.5°	1177.5	1062.6	936.6	893.4	876.0	866.0	857.6	850.2	845.4	837.5	835.4
15°	1243.9	1104.8	964.6	917.1	896.6	881.8	868.1	857.0	848.6	838.1	836.5
17.5°	1316.1	1149.0	987.8	933.5	907.1	887.6	867.6	851.2	839.6	825.9	824.4
20°	1391.5	1193.8	1005.1	941.4	907.6	881.3	854.4	832.8	818.0	804.3	803.3
22.5°	1469.5	1235.0	1015.7	939.3	899.2	866.5	834.4	810.1	792.7	776.4	775.3
25°	1548.0	1274.5	1018.3	930.8	882.3	844.4	812.2	783.8	764.3	745.8	743.7
27.5°	1627.6	1307.7	1012.0	914.0	859.7	818.6	786.4	758.5	738.4	720.0	716.8
30°	1712.5	1336.2	998.3	891.8	833.3	791.1	759.5	738.4	719.5	701.0	697.9
32.5°	1803.1	1360.9	978.8	864.9	802.7	763.7	740.5	721.6	702.6	686.3	683.1
35°	1911.2	1377.3	949.8	830.2	774.3	743.7	727.9	705.8	682.6	664.7	663.1
37.5°	2022.9	1389.9	915.0	796.9	749.5	732.1	718.9	688.9	659.9	638.3	635.7
40°	2131.0	1400.5	871.8	765.8	726.8	723.7	705.8	668.3	618.3	594.0	591.9
42.5°	2231.7	1403.6	826.5	732.6	706.3	704.7	684.7	626.7	588.2	572.9	570.8
45°	2300.7	1401.0	779.6	701.5	685.7	677.3	656.2	596.7	572.9	559.2	556.6
47.5°	2351.8	1387.3	726.8	668.9	662.5	650.9	605.6	577.7	555.5	541.8	539.2
50°	*2342.9*	*1330.4*	*673.6*	*637.2*	*634.6*	*624.6*	*568.7*	*554.0*	*534.5*	*519.7*	*517.6*
52.5°	2296.5	1222.3	619.3	602.5	607.7	588.2	542.4	525.5	508.6	491.8	488.1
55°	2308.1	1144.3	578.2	568.7	578.2	533.9	512.9	494.9	479.1	462.8	459.6
57.5°	2358.7	1067.3	534.5	532.4	542.4	492.3	474.9	452.2	429.6	416.4	416.4
60°	1980.8	778.0	457.5	462.8	485.4	458.6	443.3	420.1	395.3	383.7	383.7
62.5°	1171.2	488.1	379.5	373.7	387.9	404.8	413.2	394.3	364.7	349.5	350.0
65°	516.0	355.3	334.7	330.0	325.7	337.3	360.5	362.1	331.0	313.1	313.6
67.5°	317.8	321.5	313.1	309.4	305.7	303.6	301.5	302.5	294.1	277.8	277.2
70°	286.7	296.7	290.9	287.8	283.0	279.4	266.7	246.1	231.9	227.7	232.4
72.5°	246.7	260.4	257.2	255.6	249.8	240.9	224.0	204.0	187.1	176.6	178.7
75°	186.1	197.1	198.7	199.2	192.9	184.5	167.1	150.2	135.5	124.4	127.0
77.5°	107.0	113.3	114.9	116.5	111.7	108.6	97.0	84.9	77.0	65.4	68.5
80°	59.6	62.2	62.2	62.7	60.1	56.4	48.5	41.6	37.9	32.7	33.2
82.5°	35.8	36.9	37.4	37.9	36.4	32.7	26.9	22.1	20.0	17.4	16.9
85°	17.4	18.4	18.4	19.0	16.3	14.2	11.1	8.4	7.4	5.3	5.8
87.5°	4.2	4.7	4.7	4.2	3.7	2.6	1.6	0.5	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

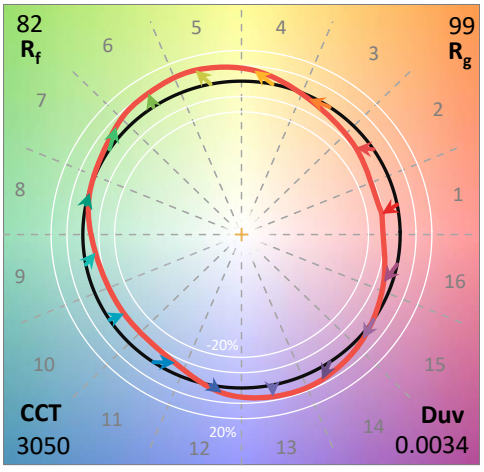
Test Information

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

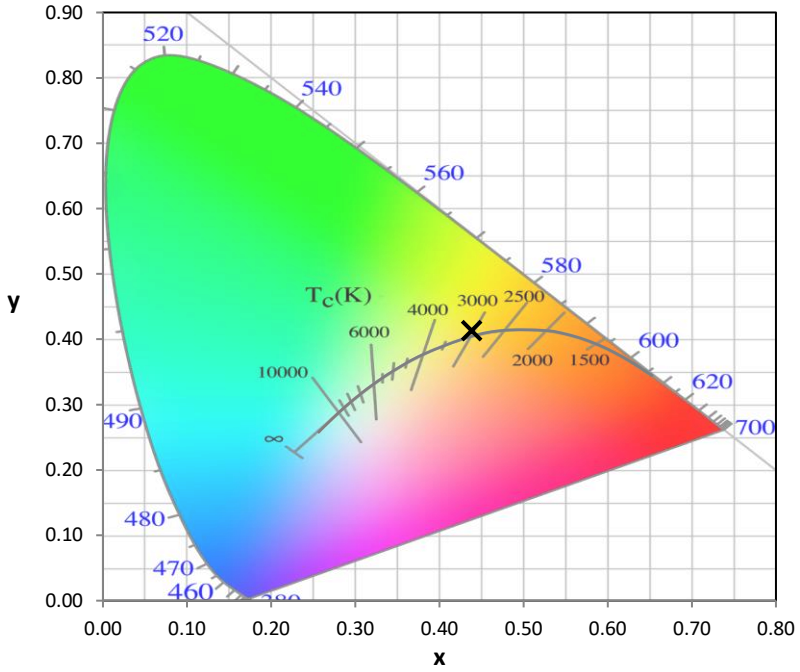
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

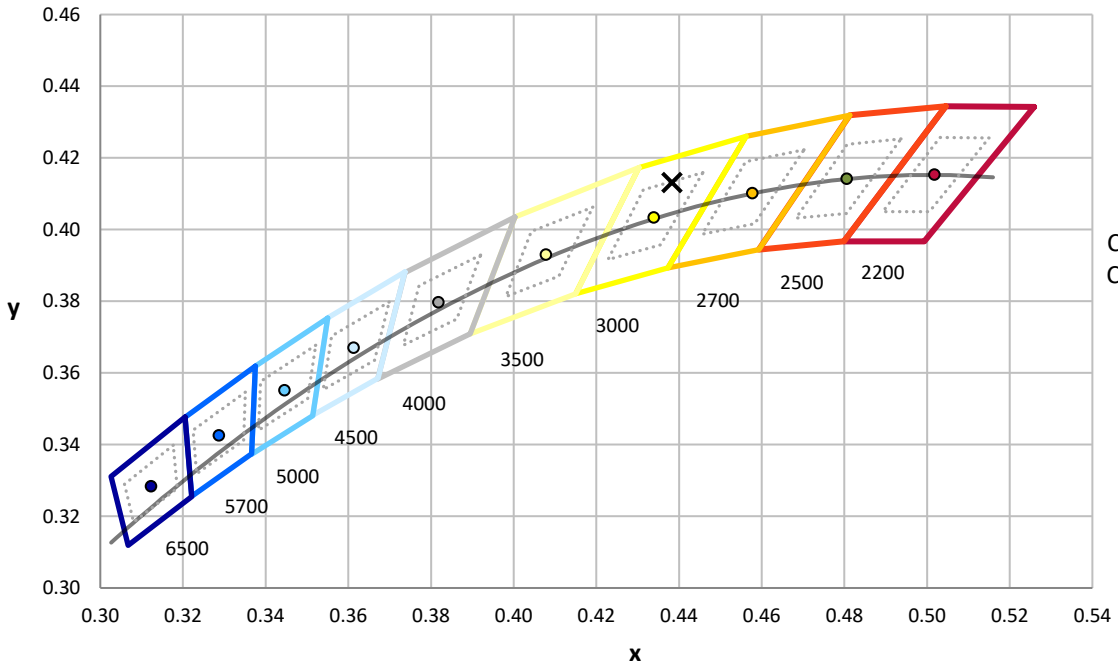
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

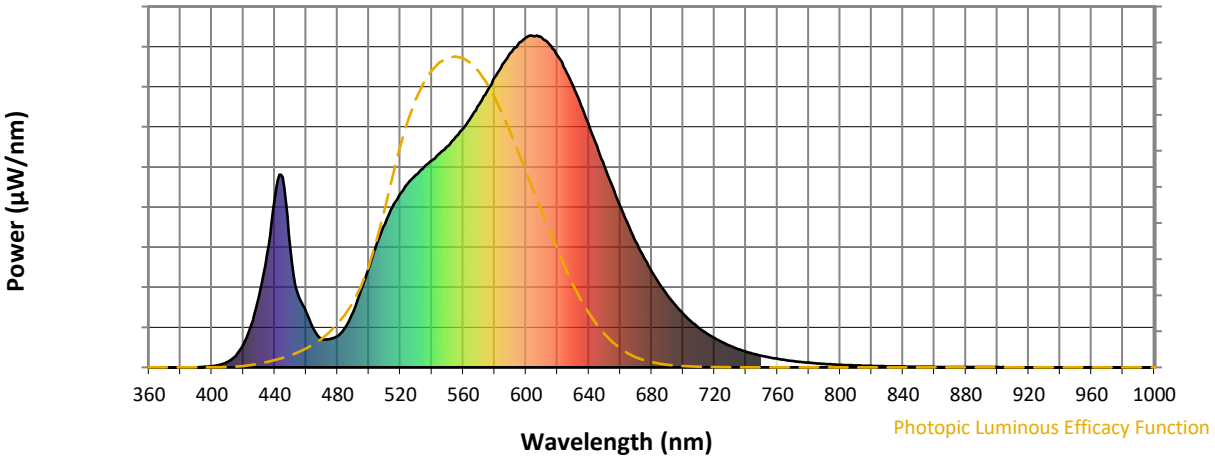


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

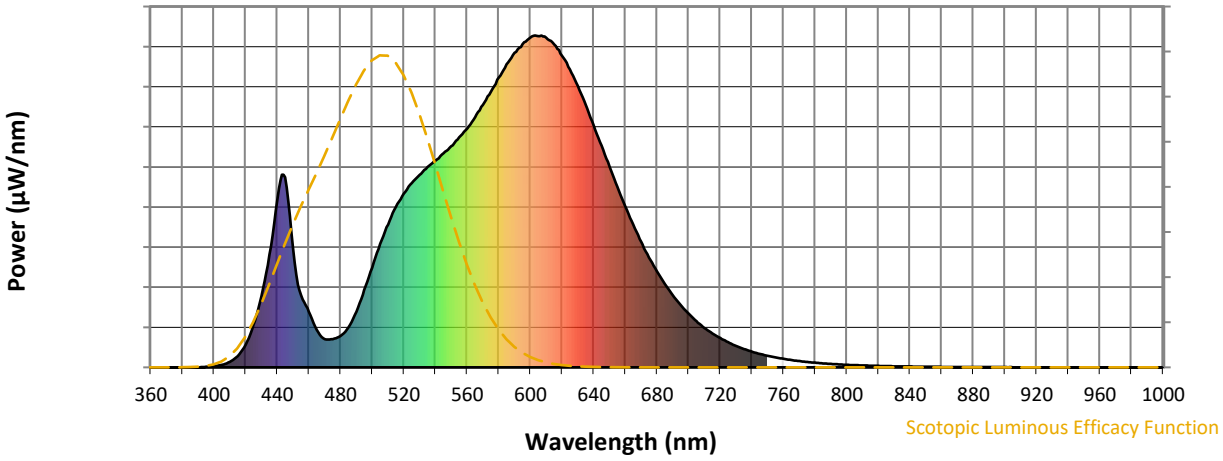


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

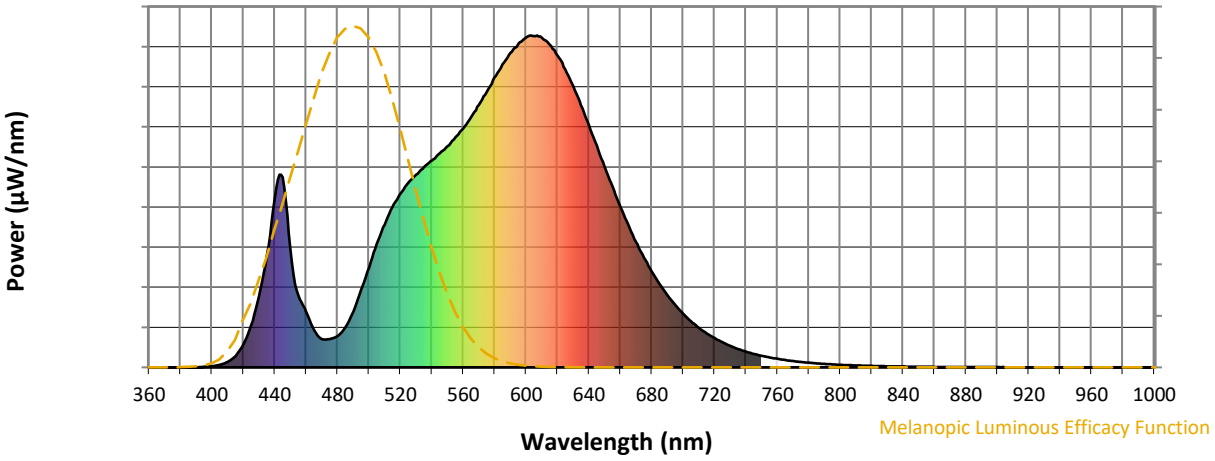


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

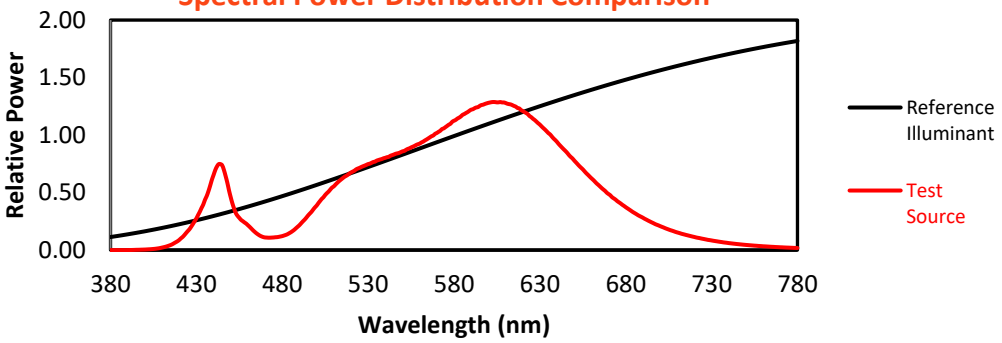
REPORT NUMBER: SP1-2408-195-9

TM-30-18

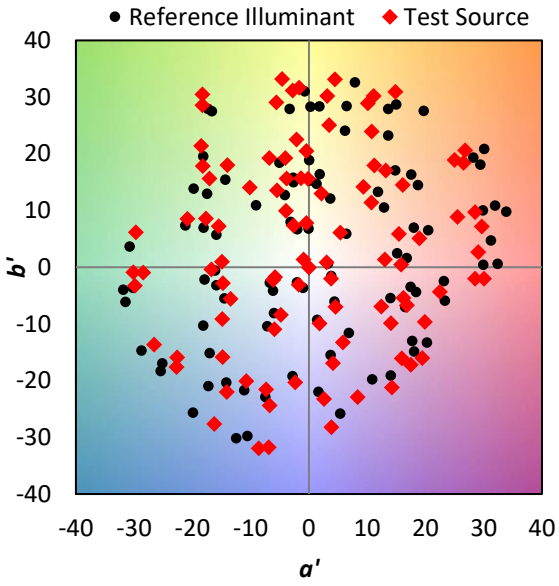
Summary

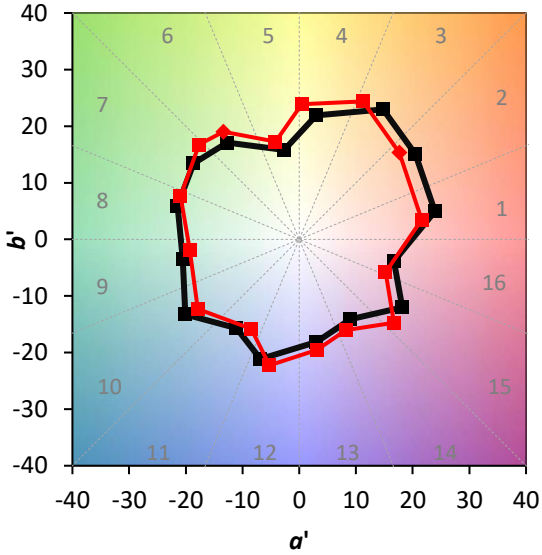
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

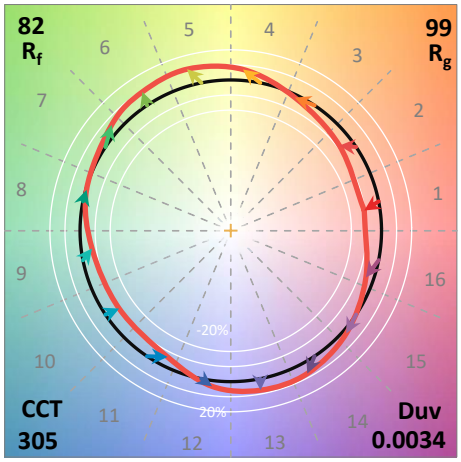
Spectral Power Distribution Comparison

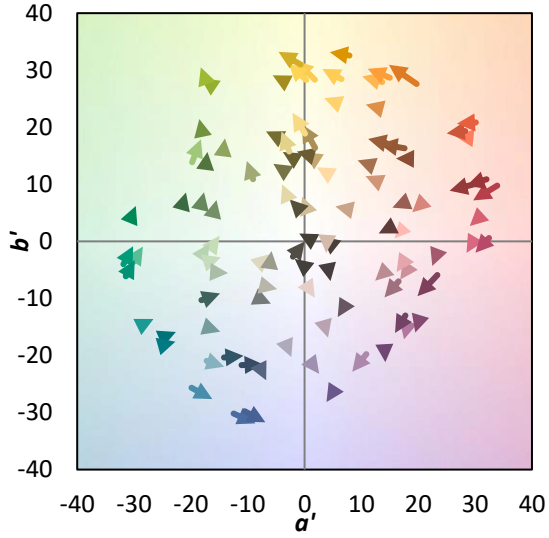


Color Vector Graphics







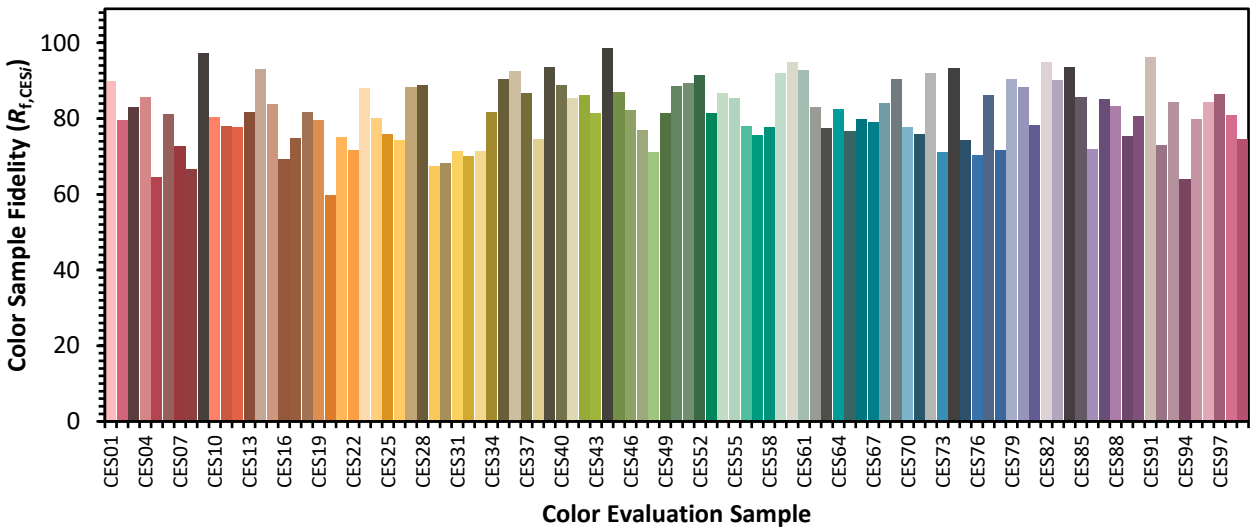


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

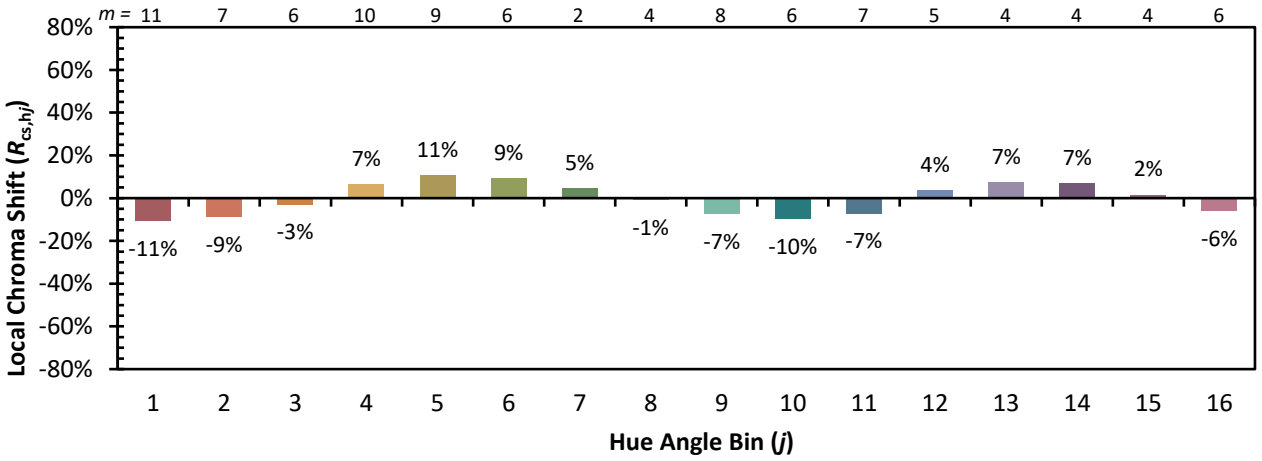
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

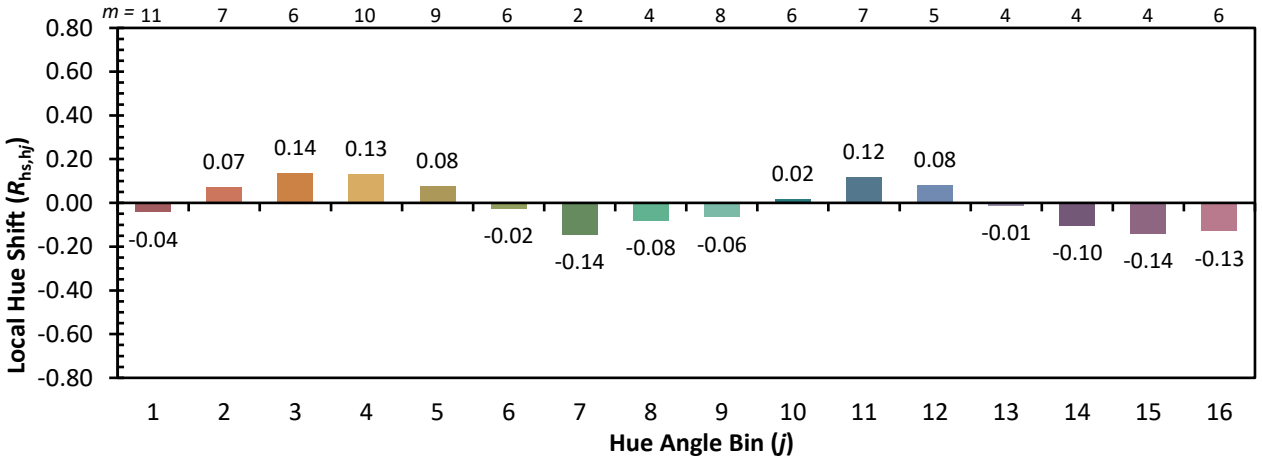


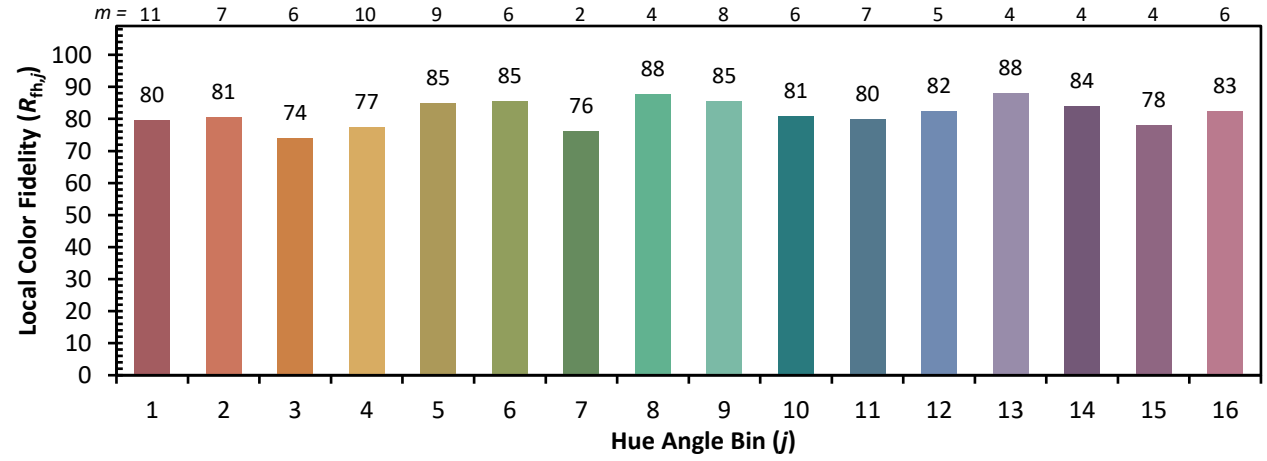
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



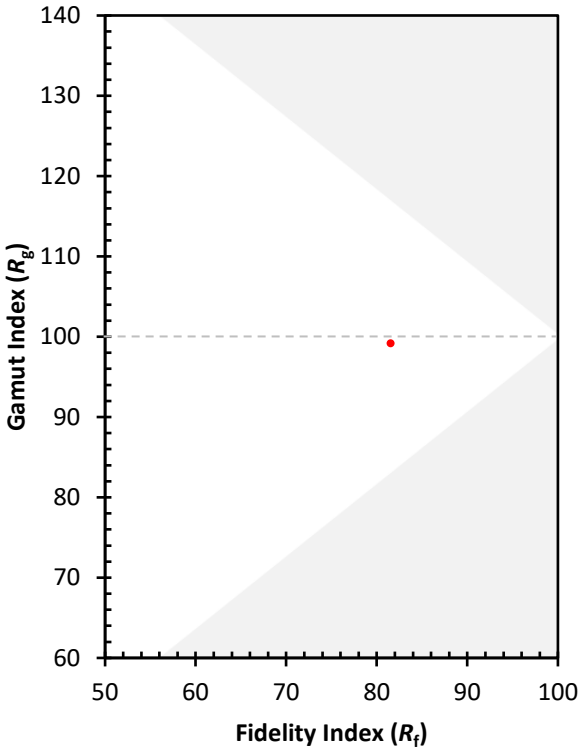


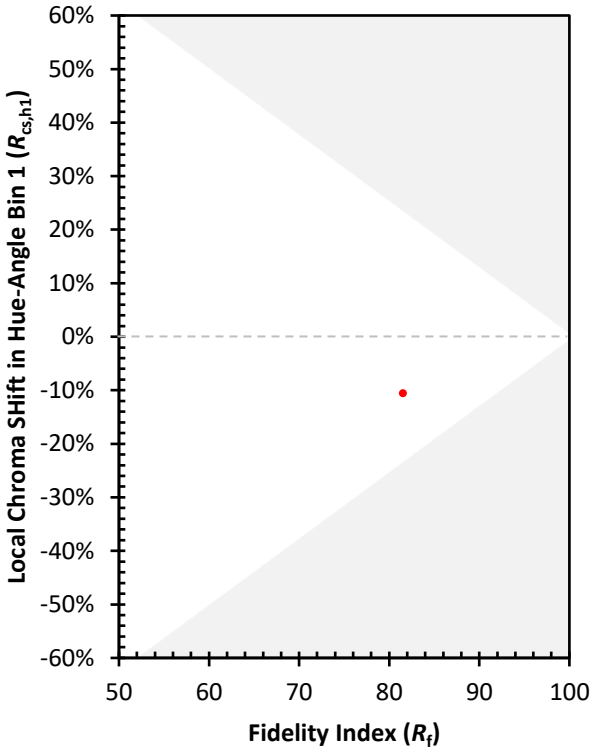


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)