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: P632064

Luminaire Tested: GWS-SA2B-830-U-T3-W

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:	P632064
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5486 lumens
Efficiency:	N/A
Efficacy:	118.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

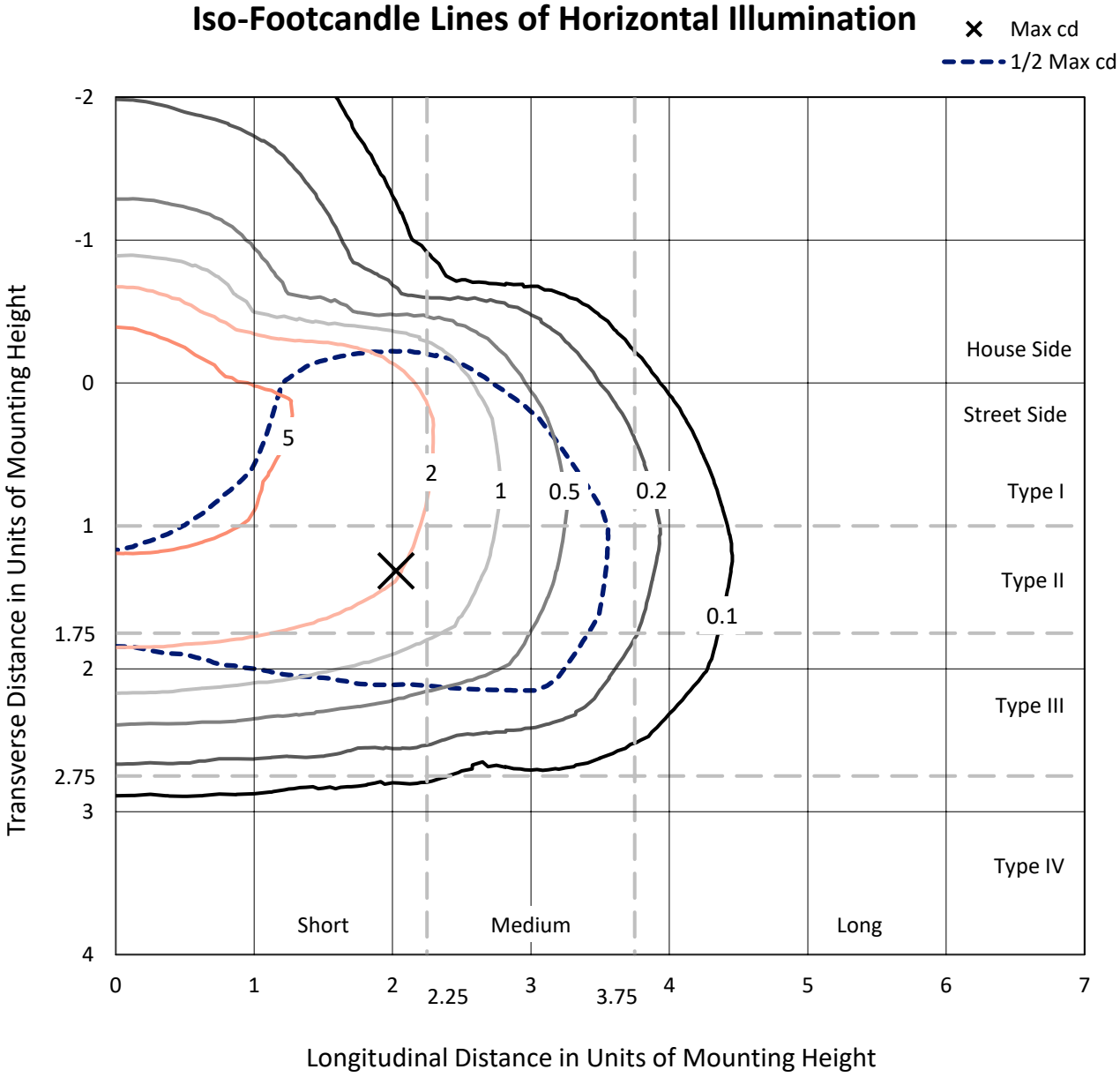
Input Watts (W):	46.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P632064
CATALOG NUMBER: GWS-SA2B-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination



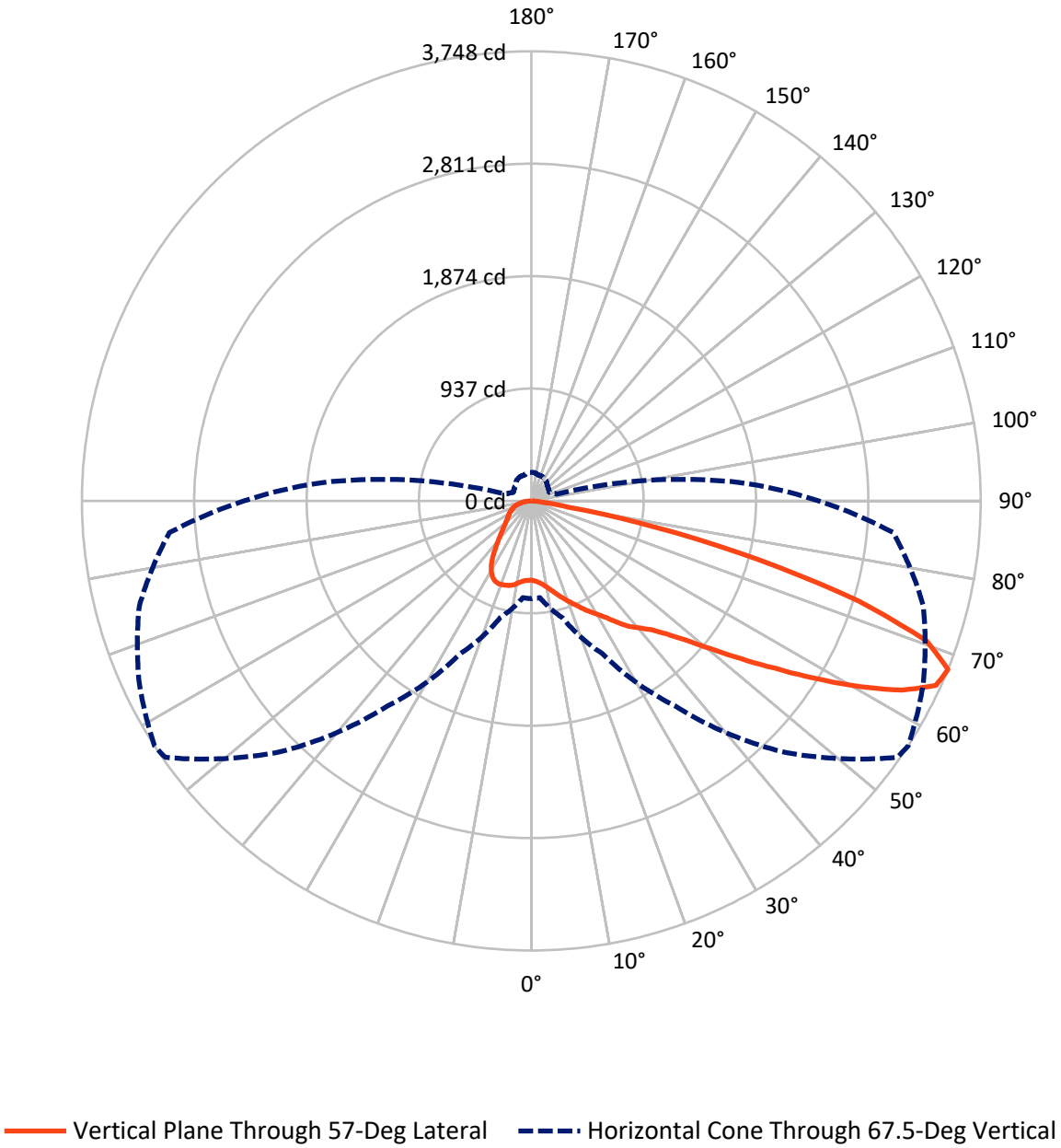
Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P632064
CATALOG NUMBER: GWS-SA2B-830-U-T3-W

Luminous Intensity Polar Plot



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

Scaled Data Report

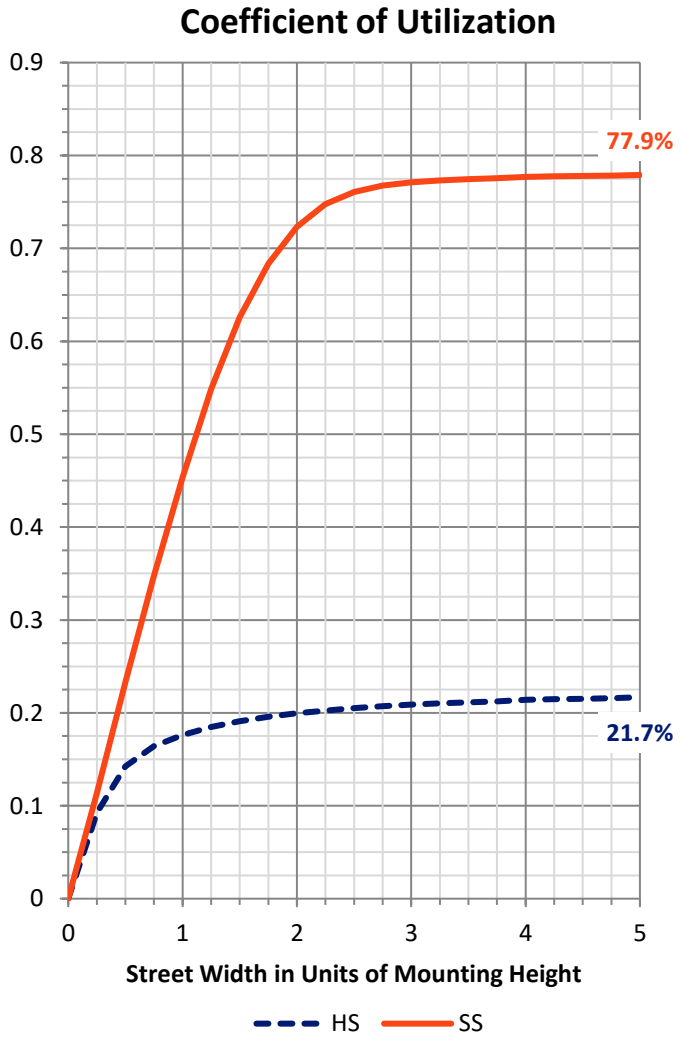
REPORT NUMBER: P632064
CATALOG NUMBER: GWS-SA2B-830-U-T3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.2	0.0	1206.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4279.8	0.0	4279.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	5486.0	0.0	5486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.2
10°-20°	217.0	4.0
20°-30°	386.9	7.1
30°-40°	562.6	10.3
40°-50°	814.2	14.8
50°-60°	1274.2	23.2
60°-70°	1486.4	27.1
70°-80°	620.5	11.3
80°-90°	58.6	1.1
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°	5486.0	100.0
0°-180°	5486.0	100.0



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

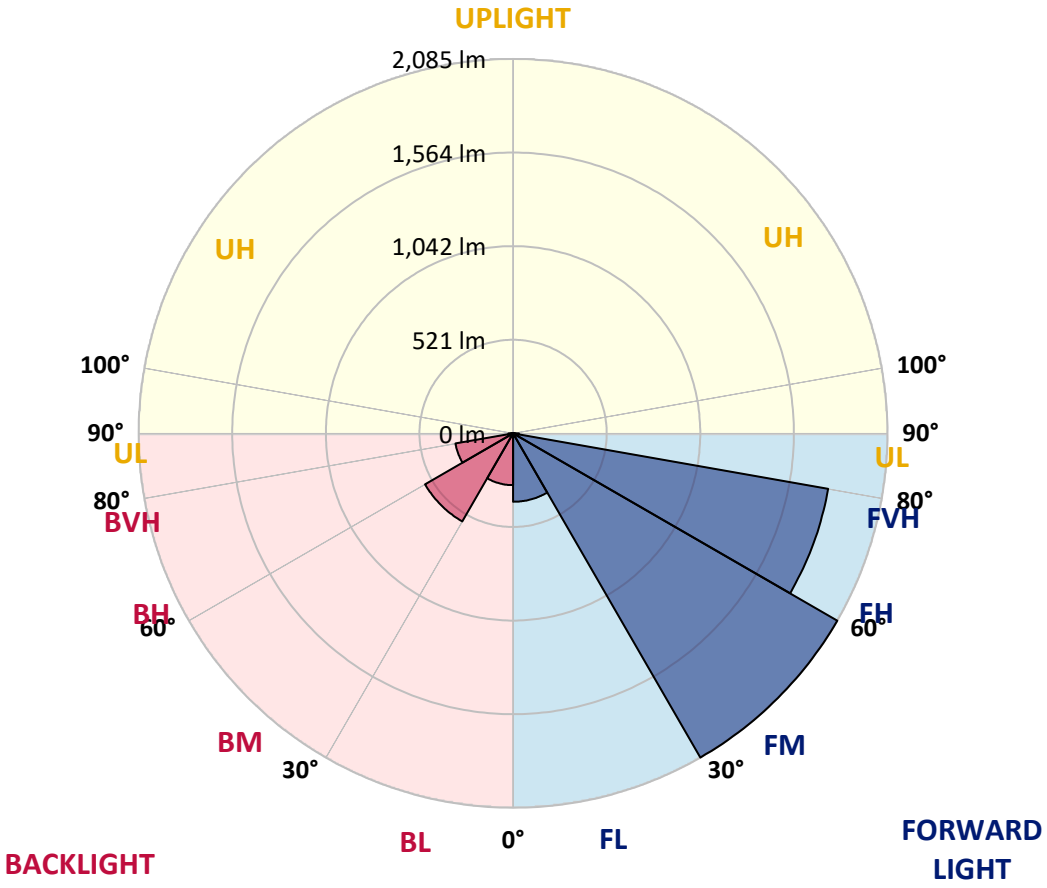
Scaled Data Report

REPORT NUMBER: P632064
CATALOG NUMBER: GWS-SA2B-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	381.1	6.9			
FM	(30°-60°)	2084.8	38.0			
FH	(60°-80°)	1781.4	32.5			G1/1800
FVH	(80°-90°)	32.6	0.6			G1/100
BL	(0°-30°)	288.5	5.3	B1/500		
BM	(30°-60°)	566.2	10.3	B1/1000		
BH	(60°-80°)	325.5	5.9	B1/500		G1/500
BVH	(80°-90°)	25.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Short



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

Scaled Data Report

REPORT NUMBER: P632064
CATALOG NUMBER: GWS-SA2B-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
2.5°	670.5	669.7	669.3	671.6	670.9	670.5	670.5	670.1	669.3	666.1	661.8
5°	688.9	687.4	685.8	687.7	686.2	684.6	684.2	683.4	680.7	676.0	669.3
7.5°	708.2	706.6	707.0	708.2	707.0	706.2	705.0	704.3	699.9	692.5	683.4
10°	735.3	735.3	736.1	737.3	737.7	736.5	734.1	732.9	727.8	718.4	705.8
12.5°	774.6	773.8	773.8	773.0	774.2	773.0	770.7	768.7	762.4	750.2	732.2
15°	826.5	823.3	820.6	815.5	813.9	809.6	810.4	809.2	803.3	786.8	764.0
17.5°	881.9	881.5	877.2	867.0	856.7	849.7	851.2	850.8	847.7	825.3	796.2
20°	930.6	932.6	928.7	920.8	907.0	893.7	892.9	894.9	890.9	868.5	828.1
22.5°	985.3	983.7	979.7	969.5	959.3	945.2	940.4	938.9	937.3	911.8	860.7
25°	1037.1	1041.8	1036.7	1027.3	1011.6	996.3	992.3	993.9	989.6	955.8	895.6
27.5°	1102.8	1104.7	1101.6	1088.6	1075.2	1053.6	1046.2	1046.2	1044.6	997.0	923.2
30°	1172.7	1178.2	1172.7	1162.1	1148.3	1117.3	1101.2	1099.6	1094.9	1039.5	955.4
32.5°	1243.1	1247.0	1243.1	1232.8	1217.1	1190.0	1166.8	1163.3	1157.0	1085.9	988.4
35°	1305.5	1309.1	1308.3	1310.7	1297.7	1263.5	1249.3	1247.8	1231.3	1146.4	1033.2
37.5°	1373.9	1378.3	1372.4	1377.1	1372.0	1339.7	1335.4	1327.6	1304.0	1203.4	1080.4
40°	1451.7	1455.7	1446.2	1448.2	1442.3	1424.2	1402.2	1391.6	1356.6	1265.1	1154.6
42.5°	1535.1	1544.1	1548.4	1544.9	1531.1	1520.9	1482.4	1469.0	1440.0	1376.3	1276.9
45°	1655.7	1669.1	1675.4	1666.3	1660.4	1645.9	1598.7	1582.6	1567.3	1533.1	1447.4
47.5°	1785.8	1798.0	1818.0	1821.9	1826.7	1815.7	1749.2	1733.5	1736.3	1732.3	1657.3
50°	1889.5	1899.8	1945.0	1993.3	2033.4	2036.5	1951.6	1934.7	1949.7	1962.2	1910.0
52.5°	1965.0	1974.0	2033.8	2133.6	2224.4	2291.6	2200.0	2180.8	2192.9	2221.2	2197.3
55°	2026.3	2038.9	2101.4	2254.6	2438.2	2544.3	2485.7	2461.4	2456.2	2491.2	2505.0
57.5°	2058.5	2062.5	2150.1	2349.4	2595.0	2792.3	2817.8	2790.3	2741.6	2760.8	2832.3
60°	1985.0	1991.7	2111.6	2373.7	2718.8	3038.3	3166.4	3143.6	3039.9	3050.5	3129.5
62.5°	1781.9	1791.3	1935.5	2257.8	2729.0	3202.6	3488.3	3473.7	3334.6	3277.2	3300.8
65°	1429.3	1432.5	1581.8	1970.9	2525.8	3223.0	3712.7	3709.1	3540.5	3406.1	3305.1
67.5°	815.1	809.6	1009.2	1405.8	2084.5	2957.3	3727.2	3748.0	3607.3	3384.9	3030.0
70°	353.3	354.1	446.1	693.6	1349.2	2390.2	3461.9	3497.7	3414.0	3031.6	2410.7
72.5°	163.5	165.8	205.5	300.3	576.1	1482.8	2822.9	2855.1	2783.2	2426.4	1754.0
75°	115.5	117.5	137.2	172.1	264.9	577.7	1888.4	1956.0	1990.9	1814.9	1155.8
77.5°	87.6	90.4	100.2	119.5	163.5	204.8	903.5	1064.6	1268.2	1129.1	595.4
80°	55.8	55.8	66.4	79.8	99.8	106.5	261.0	309.3	620.5	465.3	233.8
82.5°	37.7	38.9	45.2	50.7	57.4	60.5	112.0	119.5	179.2	158.4	96.3
85°	20.0	20.8	23.6	23.2	27.5	24.0	47.2	46.8	65.6	71.9	36.5
87.5°	0.0	0.0	0.4	0.4	0.8	1.2	5.1	5.5	13.8	22.0	12.2
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: P632064
CATALOG NUMBER: GWS-SA2B-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
2.5°	664.2	659.5	661.8	661.0	663.4	663.4	659.1	657.9	658.3	653.6	652.0
5°	670.1	664.6	665.7	664.2	666.5	668.5	666.5	666.5	668.9	665.3	663.4
7.5°	683.4	677.1	677.1	675.2	677.9	679.5	677.9	680.3	684.6	681.1	679.1
10°	704.6	697.2	697.6	695.2	696.4	695.6	689.3	687.4	688.5	685.4	683.8
12.5°	732.2	721.9	721.9	717.2	714.5	706.2	693.3	688.5	689.3	686.6	685.4
15°	758.5	749.1	747.1	737.7	725.1	709.8	698.0	694.8	695.6	692.9	690.9
17.5°	789.5	777.4	770.3	753.0	729.8	714.1	702.3	694.8	688.5	682.2	680.7
20°	818.2	802.9	789.9	763.2	734.9	713.3	691.3	672.8	657.5	649.2	647.3
22.5°	847.7	828.1	805.3	770.3	734.5	699.1	658.7	630.8	608.0	595.8	598.1
25°	875.6	850.8	819.8	777.0	721.9	667.7	612.7	571.0	545.1	535.7	532.9
27.5°	898.8	868.1	833.2	773.8	696.0	622.5	549.8	503.4	478.3	467.7	464.9
30°	924.7	890.1	852.4	759.3	655.1	559.2	478.7	440.9	422.9	412.6	413.0
32.5°	954.6	918.4	879.5	731.4	602.9	490.9	420.1	394.2	379.6	369.4	367.8
35°	994.7	958.9	897.6	689.3	536.4	428.0	380.0	358.8	340.7	327.4	324.6
37.5°	1044.2	1019.8	899.6	633.1	465.3	384.7	351.3	328.5	306.5	288.9	286.9
40°	1129.1	1101.2	883.5	562.8	404.8	356.8	327.4	301.0	275.5	255.8	253.1
42.5°	1250.1	1192.8	848.9	483.4	359.2	334.8	304.6	271.2	245.2	231.5	229.5
45°	1404.2	1294.9	797.0	408.7	325.4	313.2	280.6	245.6	231.9	222.0	220.1
47.5°	1592.8	1414.0	737.3	350.6	299.1	293.6	256.2	237.0	224.8	216.5	214.6
50°	1818.4	1565.7	688.1	305.0	275.5	270.8	248.4	231.9	222.0	215.4	213.8
52.5°	2075.8	1734.3	664.2	272.3	255.1	250.3	245.6	230.7	222.4	217.3	215.4
55°	2343.1	1911.9	641.8	247.2	237.8	240.5	246.0	234.6	228.3	221.7	219.7
57.5°	2601.3	2078.6	586.7	227.5	225.2	235.8	248.0	238.6	231.1	224.4	222.0
60°	2779.3	2169.8	493.6	211.8	215.8	229.9	242.9	232.7	223.2	220.5	219.3
62.5°	2827.2	2158.7	383.2	195.7	204.4	216.9	229.5	222.8	213.0	217.3	217.7
65°	2715.2	2040.8	287.7	180.0	189.4	200.0	215.8	213.0	209.5	221.3	221.7
67.5°	*2398.1*	*1751.2*	*219.3*	*166.2*	*174.1*	*187.1*	*211.4*	*222.8*	*223.6*	*238.6*	*237.0*
70°	1814.5	1308.3	171.7	153.3	162.3	187.1	225.2	230.3	220.9	234.6	231.5
72.5°	1254.5	863.4	146.2	141.9	147.8	178.4	224.8	224.8	214.6	214.6	208.7
75°	779.3	507.8	127.3	127.3	127.3	156.0	218.5	207.1	189.0	180.8	176.1
77.5°	384.7	246.8	106.9	110.8	106.5	130.5	178.4	169.4	158.4	149.7	146.6
80°	164.3	123.4	86.5	90.8	85.7	98.2	141.5	139.5	128.9	117.5	114.0
82.5°	75.5	63.7	69.2	71.1	62.5	73.9	103.4	103.4	97.5	81.7	75.8
85°	32.2	33.8	47.9	47.9	39.3	41.7	55.4	52.7	47.2	38.5	35.4
87.5°	11.0	16.5	24.4	21.2	8.3	3.5	2.0	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

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

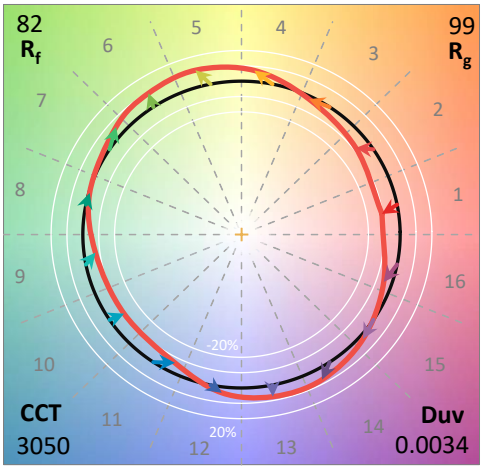
Test Information

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

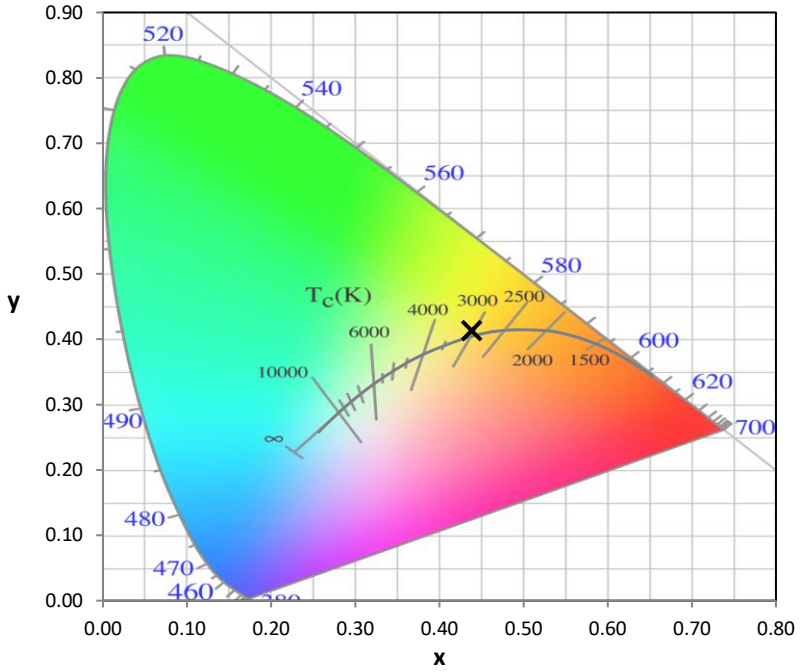
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

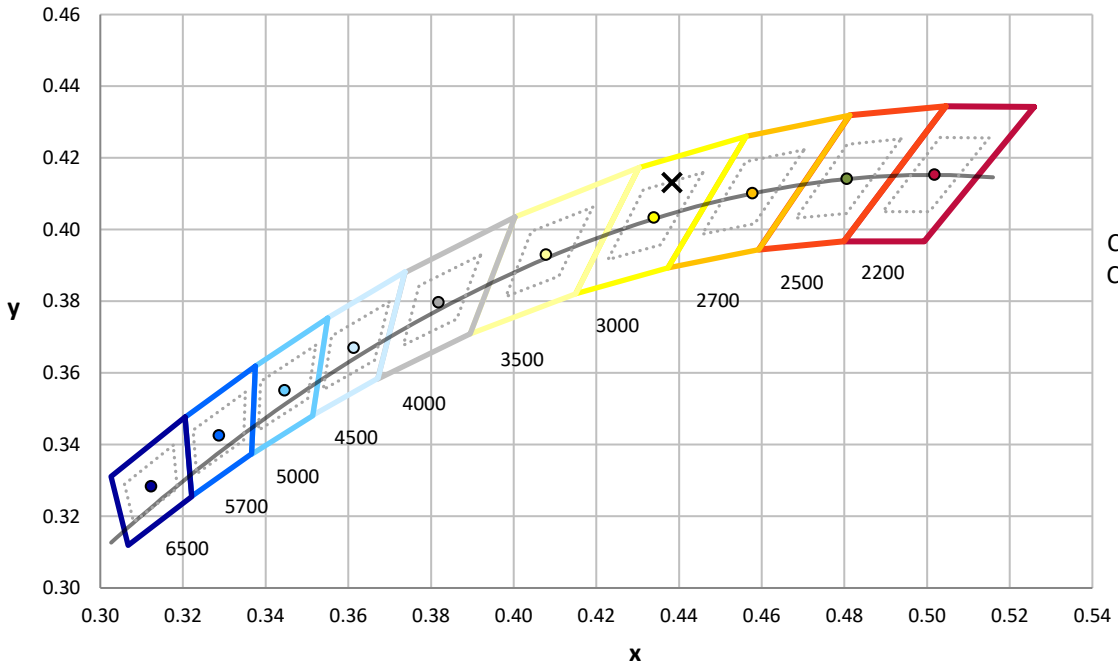
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

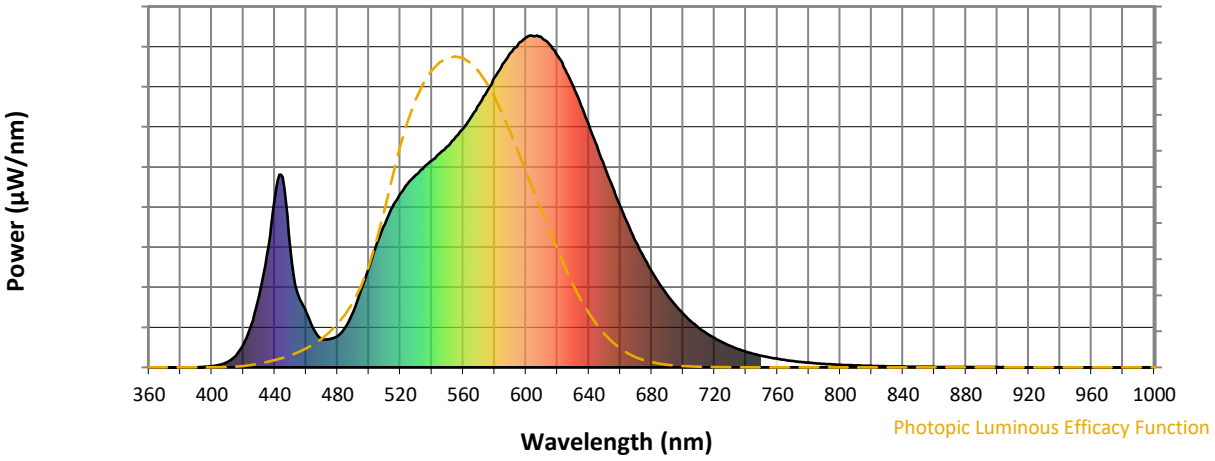


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

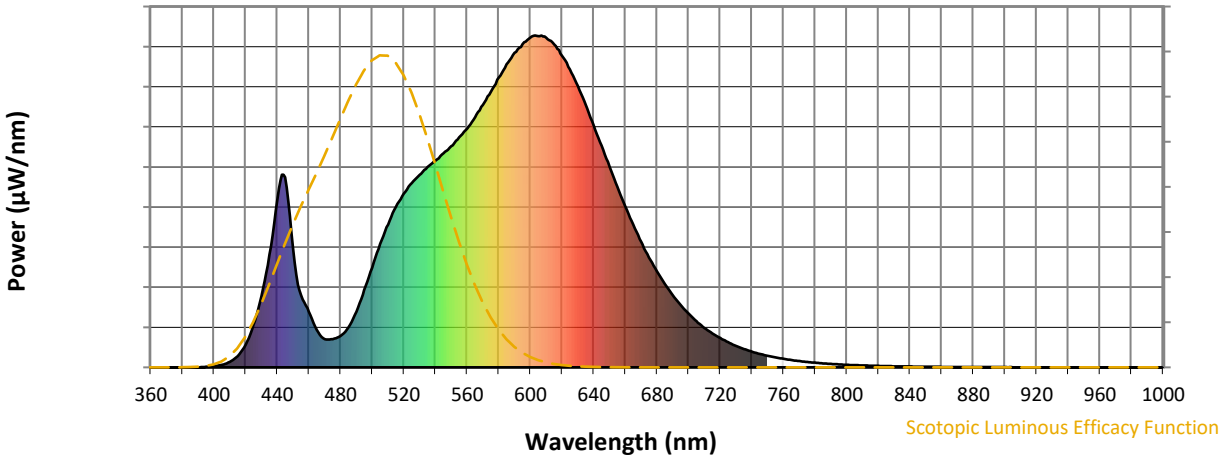


Photopic Lumens: NR

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

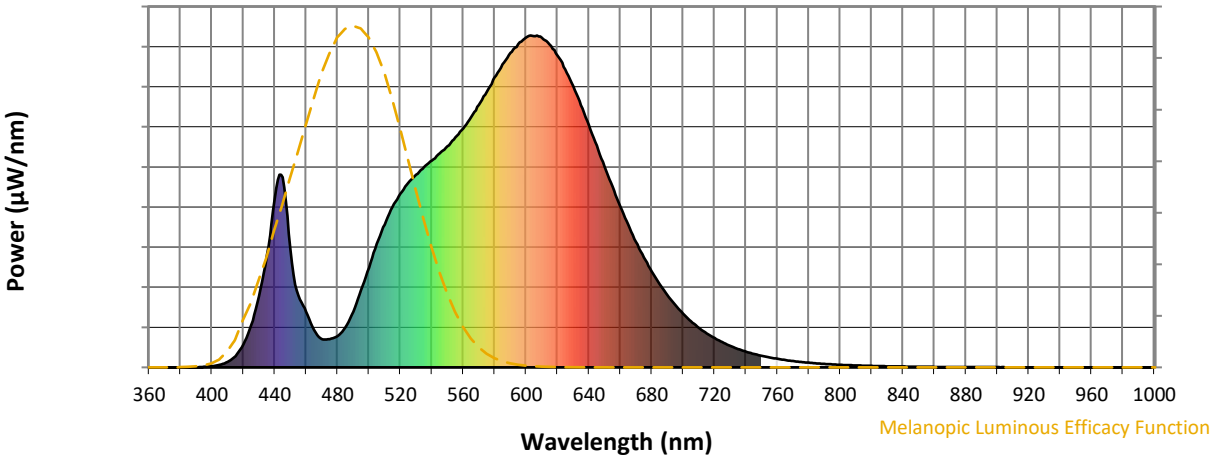


Scotopic Lumens: NR **S/P: 1.27**

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			

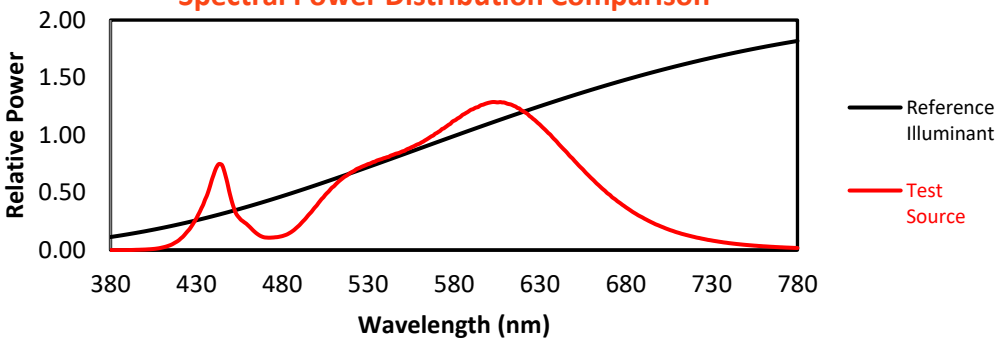
REPORT NUMBER: SP1-2408-195-9

TM-30-18

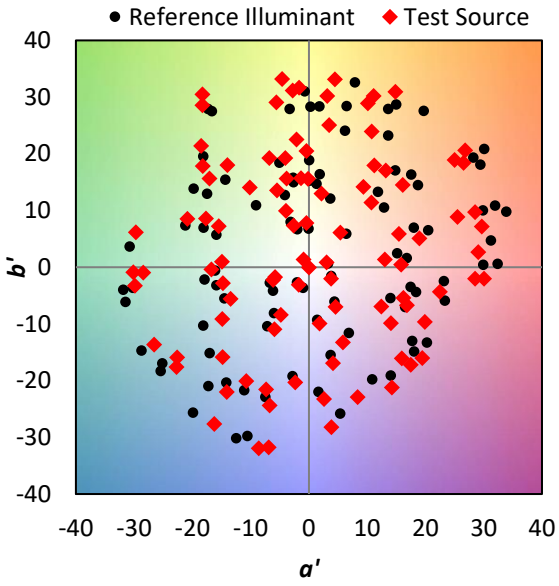
Summary

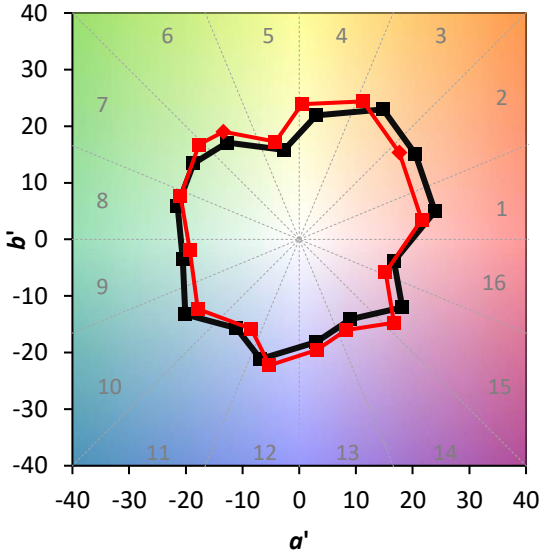
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

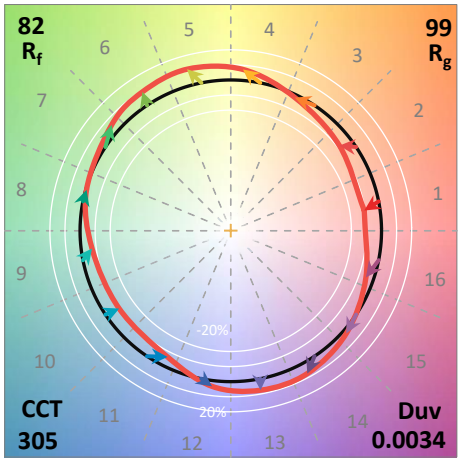
Spectral Power Distribution Comparison

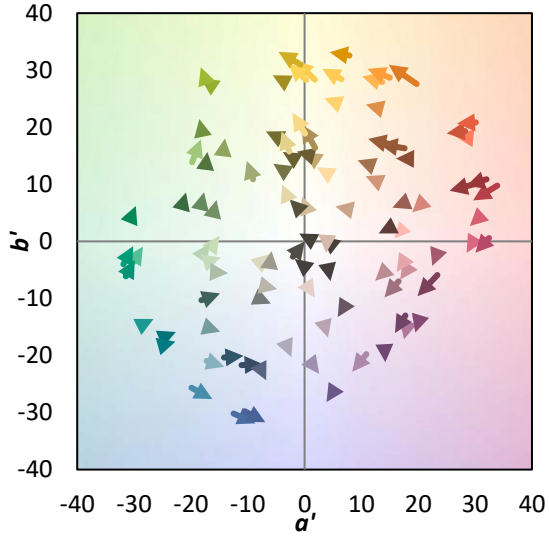


Color Vector Graphics







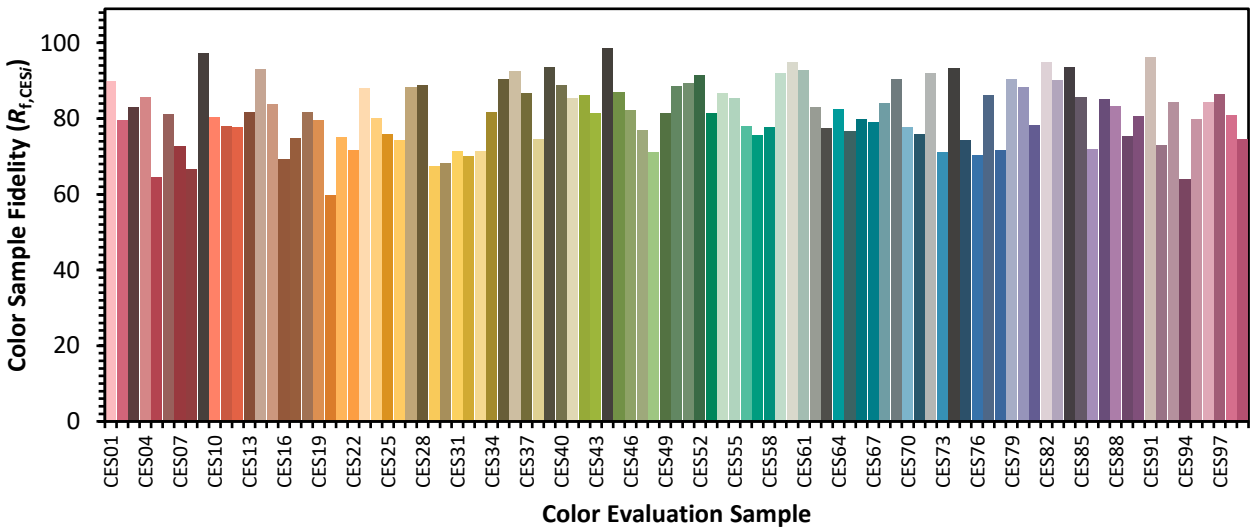


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

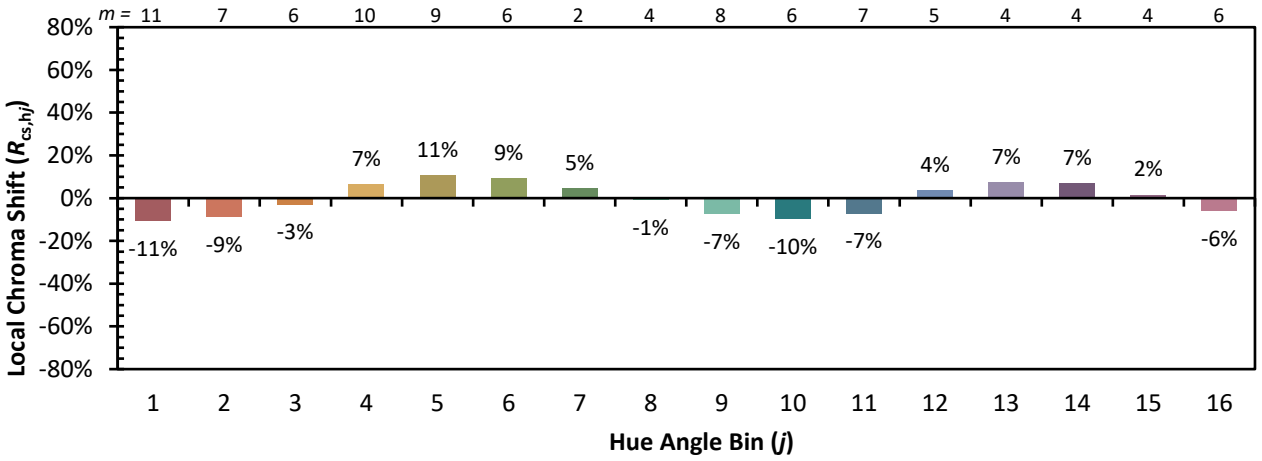
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

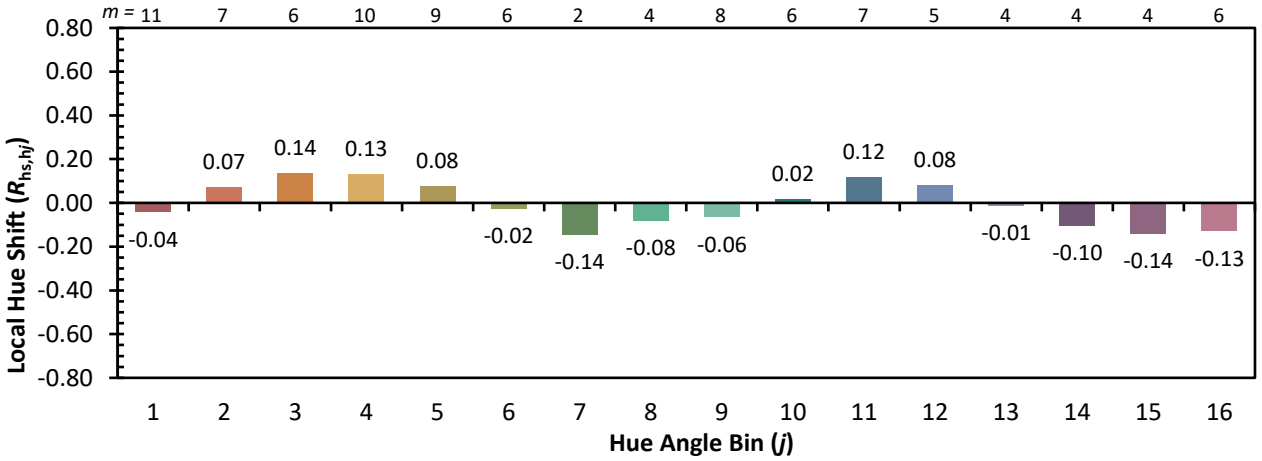


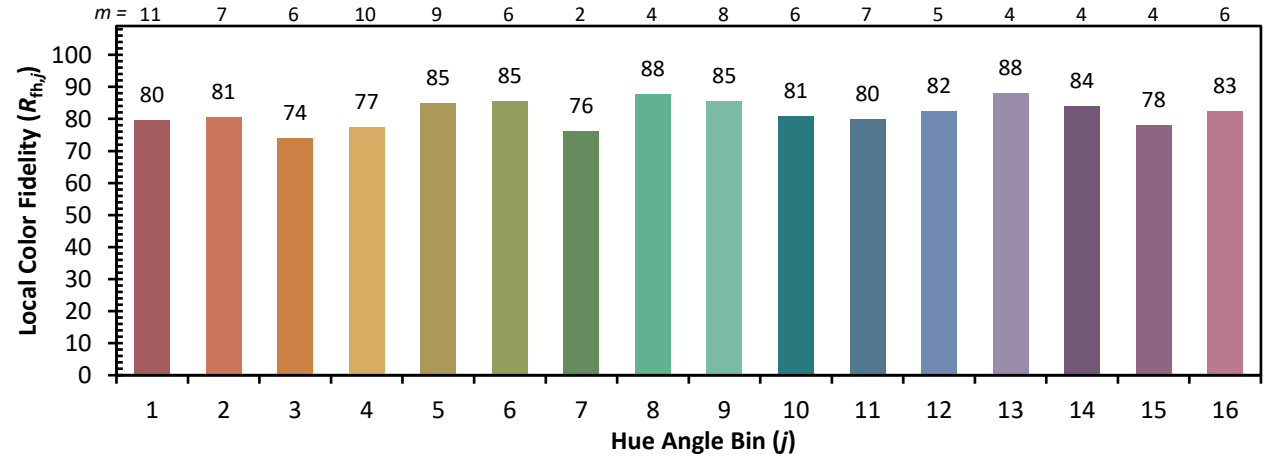
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



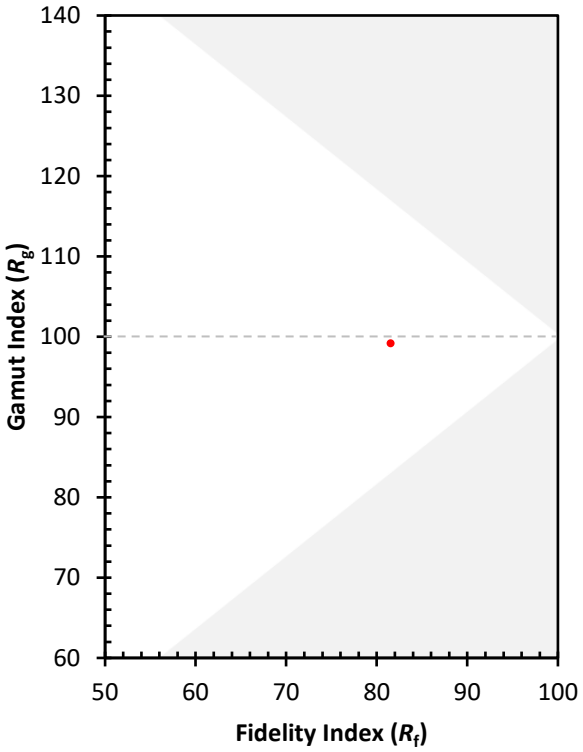


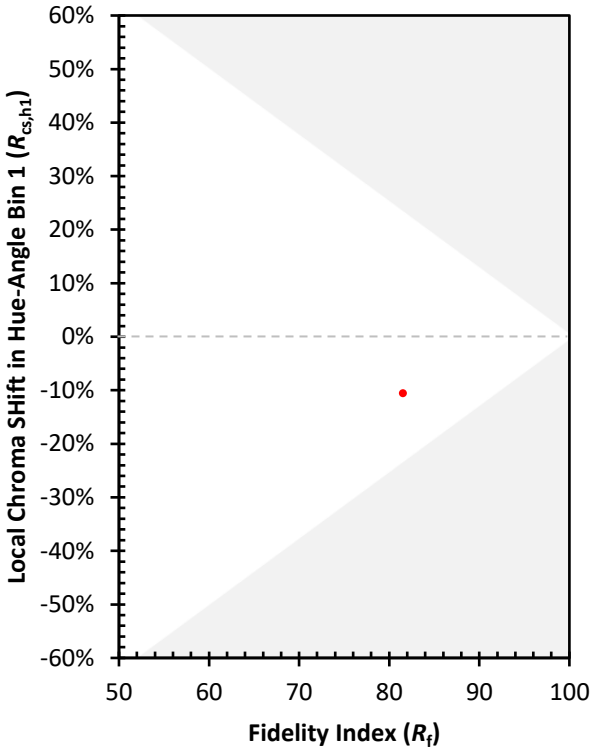


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)