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: P633046

Luminaire Tested: GWS-SA2D-830-U-T2-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:	P633046
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9202.6 lumens
Efficiency:	N/A
Efficacy:	112.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	82.1
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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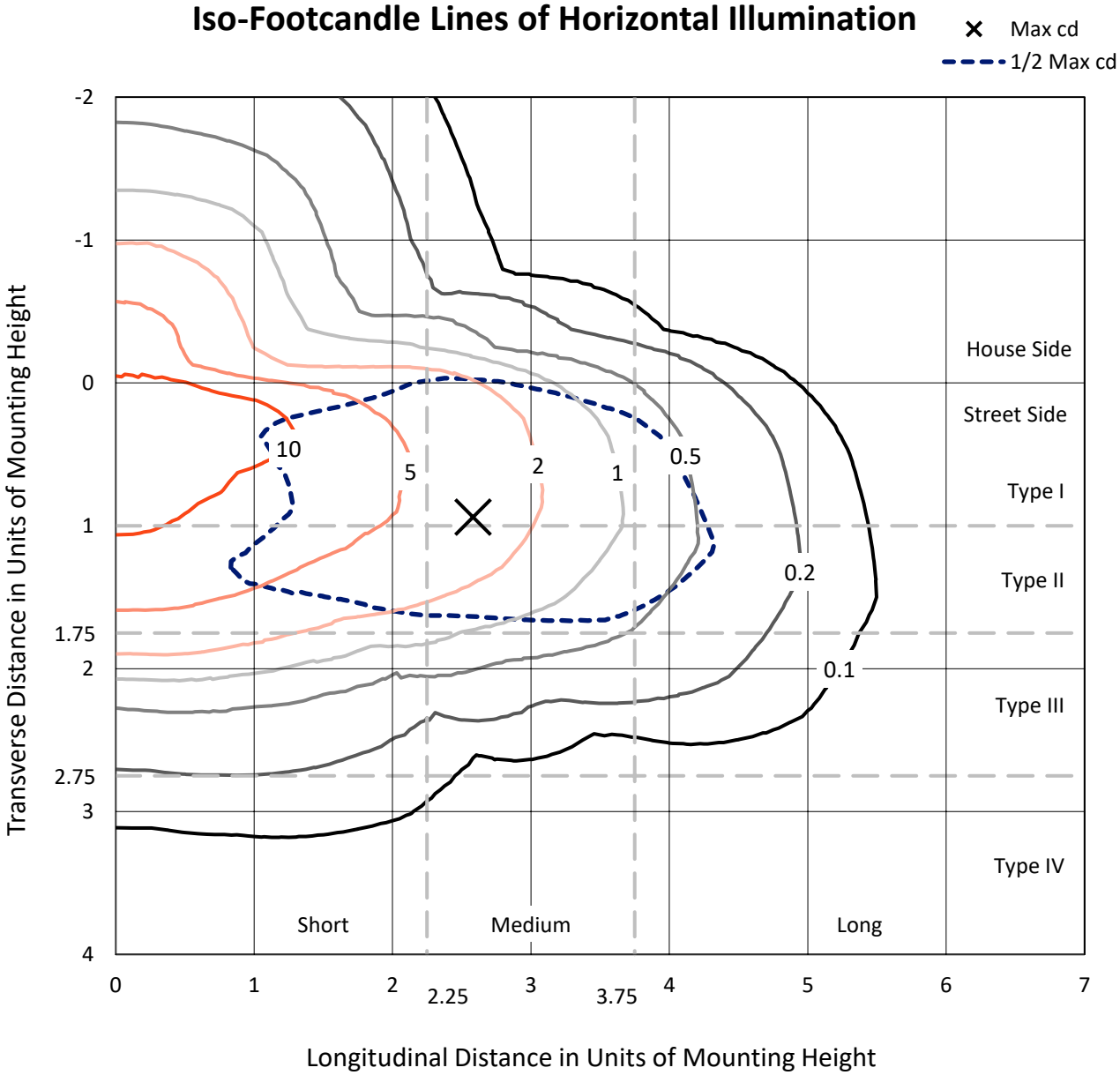
Scaled Data Report

REPORT NUMBER: P633046
CATALOG NUMBER: GWS-SA2D-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
Type II - Medium - N/A

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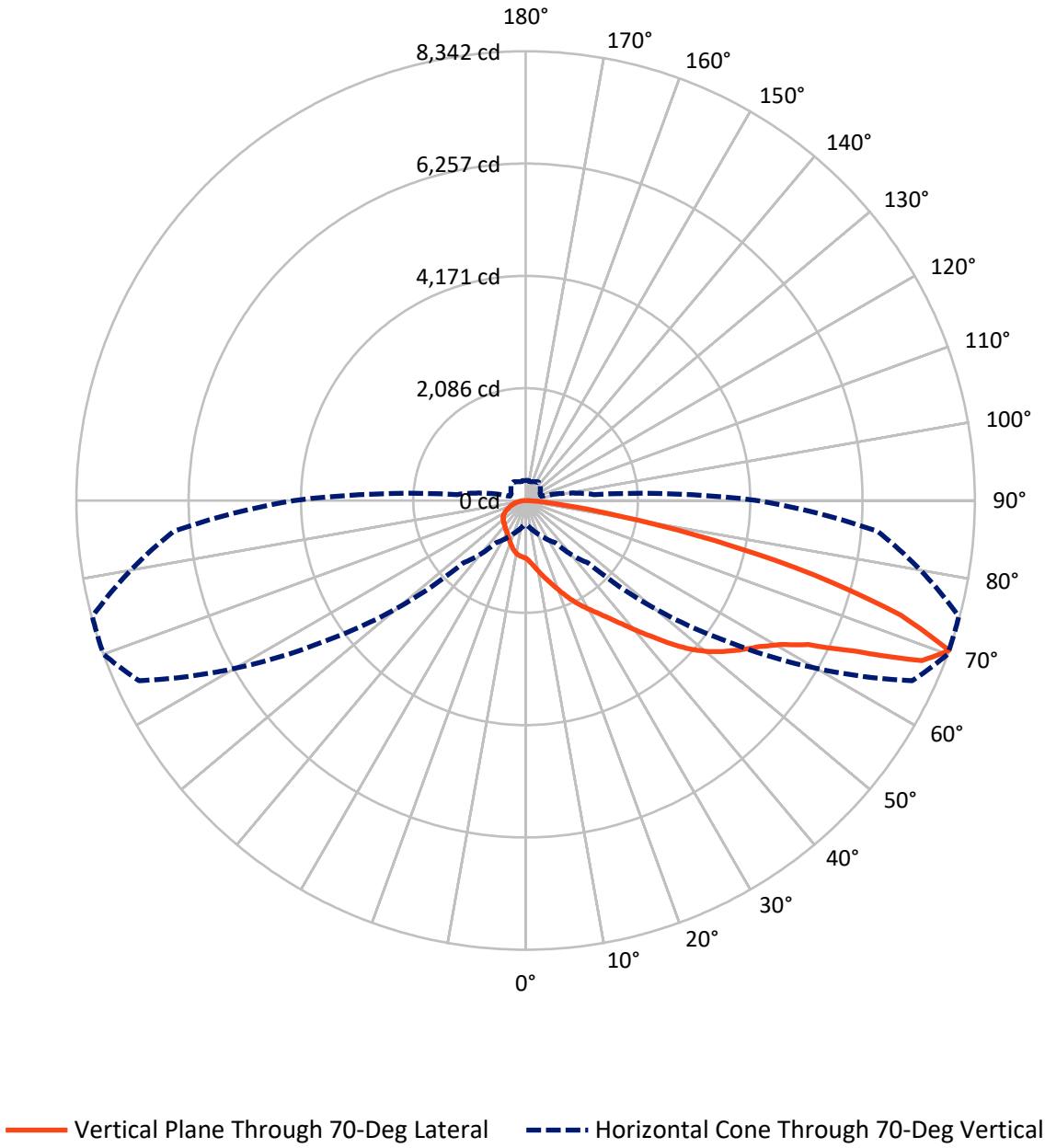
Luminous Intensity Polar Plot



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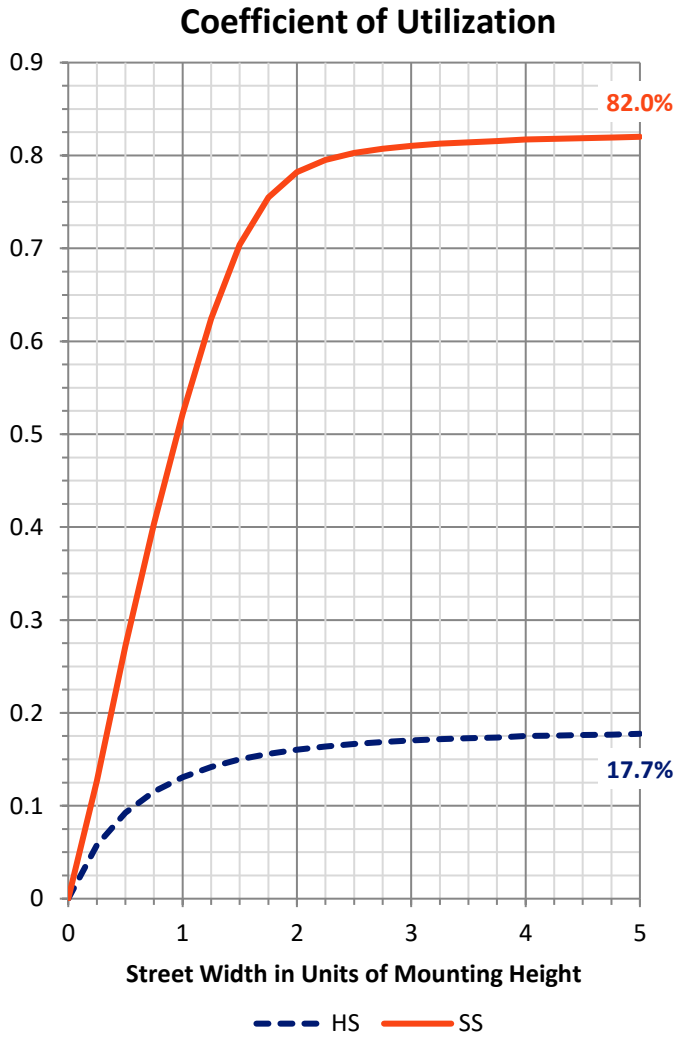
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1649.1	0.0	1649.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	7553.5	0.0	7553.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	9202.6	0.0	9202.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.2
10°-20°	354.8	3.9
20°-30°	628.6	6.8
30°-40°	946.1	10.3
40°-50°	1431.3	15.6
50°-60°	2050.4	22.3
60°-70°	2266.5	24.6
70°-80°	1279.0	13.9
80°-90°	136.8	1.5
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°	9202.6	100.0
0°-180°	9202.6	100.0



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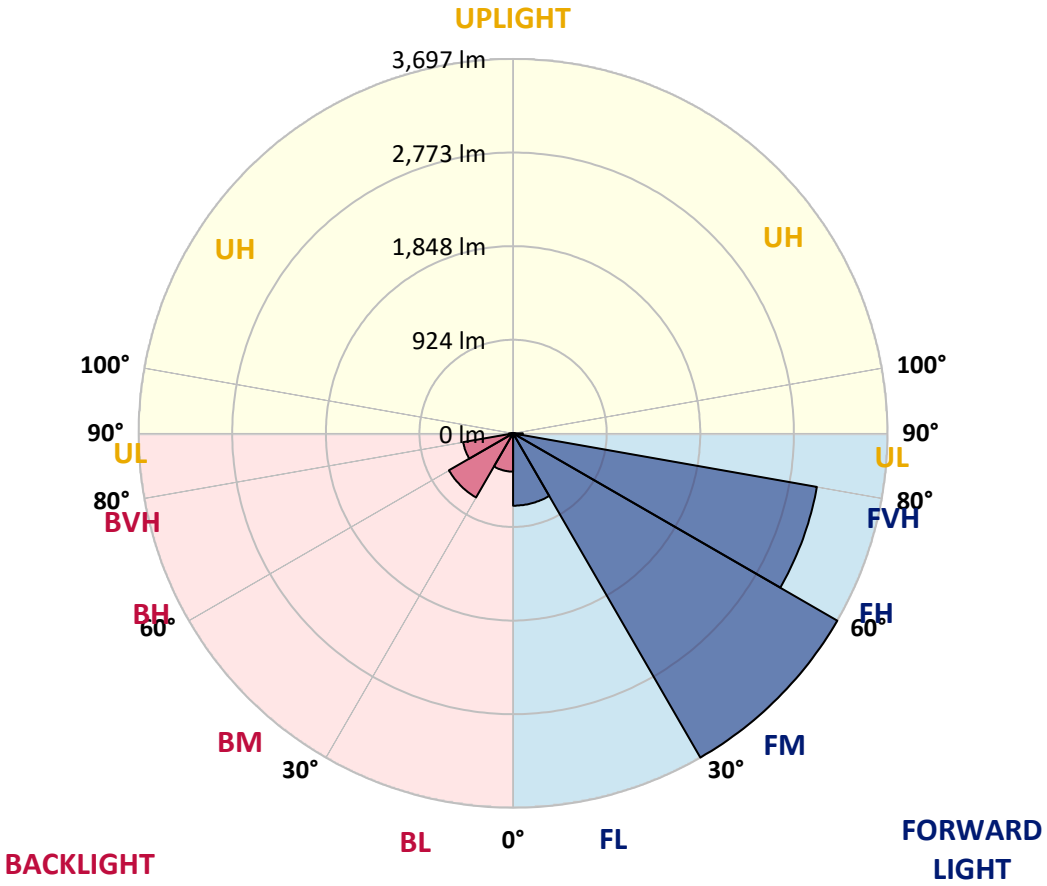
REPORT NUMBER: P633046
CATALOG NUMBER: GWS-SA2D-830-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	714.4	7.8			
FM	(30°-60°)	3696.7	40.2			
FH	(60°-80°)	3045.7	33.1			G2/5000
FVH	(80°-90°)	96.7	1.1			G1/100
BL	(0°-30°)	378.1	4.1	B1/500		
BM	(30°-60°)	731.1	7.9	B1/1000		
BH	(60°-80°)	499.8	5.4	B1/500		G1/500
BVH	(80°-90°)	40.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Medium



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Scaled Data Report

REPORT NUMBER: P633046
CATALOG NUMBER: GWS-SA2D-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	*1073.2*	1073.2	1073.2
2.5°	1188.9	1186.9	1188.2	1186.9	1179.6	1161.7	1147.0	1128.4	*1115.8*	1108.5	1091.2
5°	1328.6	1326.6	1321.9	1315.3	1302.0	1277.4	1240.8	1200.2	*1175.6*	1157.0	1120.4
7.5°	1429.0	1429.0	1428.3	1420.3	1411.0	1385.1	1341.8	1288.7	*1252.7*	1220.8	1161.0
10°	1480.2	1483.5	1488.1	1499.4	1497.4	1483.5	1442.9	1385.7	*1340.5*	1303.3	1214.2
12.5°	1508.1	1510.1	1518.1	1541.3	1565.3	1568.6	1544.7	1484.8	*1435.6*	1385.7	1273.4
15°	1544.0	1544.7	1555.3	1583.2	1618.5	1653.7	1647.7	1587.9	*1537.3*	1482.2	1339.2
17.5°	1571.9	1576.6	1595.9	1628.4	1672.3	1720.9	1750.1	1712.9	*1650.4*	1587.2	1411.0
20°	1581.9	1585.2	1610.5	1660.4	1720.2	1788.7	1853.9	1843.9	*1780.7*	1706.2	1492.1
22.5°	1617.8	1617.8	1636.4	1678.3	1748.8	1848.5	1954.3	1980.2	*1924.3*	1837.2	1579.2
25°	1696.9	1694.3	1702.9	1720.2	1773.4	1896.4	2053.3	2131.1	*2068.6*	1970.9	1666.3
27.5°	1805.3	1804.0	1803.3	1806.0	1823.9	1938.3	2137.1	2272.1	*2209.6*	2099.2	1744.1
30°	1923.0	1919.0	1927.7	1919.7	1915.7	1988.2	2208.3	2398.4	*2349.9*	2226.2	1808.6
32.5°	2083.3	2075.9	2073.9	2048.0	2032.1	2066.0	2265.5	2542.1	*2503.5*	2363.2	1881.1
35°	2294.7	2288.1	2254.1	2212.9	2165.7	2181.7	2336.6	2682.4	*2685.0*	2534.8	1976.2
37.5°	2508.2	2509.5	2482.9	2385.8	2337.3	2328.0	2445.0	2853.3	*2910.4*	2739.6	2099.2
40°	2685.7	2693.7	2693.7	2591.3	2518.8	2510.1	2597.3	3056.1	*3169.8*	2990.9	2254.8
42.5°	2820.7	2828.0	2851.3	2777.5	2701.0	2730.9	2782.1	3259.5	*3463.7*	3301.4	2451.6
45°	2969.0	2974.9	2987.6	2945.0	2900.5	2980.3	2991.6	3502.9	*3800.1*	3649.9	2680.4
47.5°	3165.8	3160.5	3161.8	3130.5	3096.0	3225.0	3222.3	3707.7	*4125.3*	4031.5	2928.4
50°	3410.5	3420.5	3411.1	3349.3	3308.7	3426.4	3441.7	3934.5	*4411.2*	4409.2	3178.4
52.5°	3645.9	3649.9	3699.1	3701.7	3618.6	3594.0	3633.9	4163.2	*4652.6*	4755.0	3418.5
55°	3657.8	3673.1	3820.7	3927.1	4061.5	3864.0	3828.1	4381.3	*4886.0*	5093.4	3667.8
57.5°	3403.2	3427.8	3678.5	3907.9	4281.6	4327.4	4160.5	4663.2	*5119.4*	5426.6	3956.4
60°	2859.2	2910.4	3250.9	3602.0	4182.5	4660.6	4840.8	5046.2	*5425.9*	5767.0	4306.8
62.5°	1825.9	1845.9	2323.3	2911.1	3736.3	4628.0	5581.5	5721.1	*5892.7*	6210.5	4846.8
65°	914.3	978.1	1258.1	1737.5	2694.3	4078.1	5955.9	6957.3	*6747.1*	6969.9	5721.8
67.5°	620.4	641.0	782.6	1044.0	1579.9	2889.2	5723.8	7998.6	*7936.7*	7973.3	6654.7
70°	*457.5*	*470.8*	*582.5*	*739.4*	*955.5*	*1640.4*	*4556.8*	*7920.1*	*8342.3*	*8329.0*	*6557.0*
72.5°	333.8	340.4	424.9	564.5	708.2	848.5	2782.8	6398.1	*7282.4*	7666.1	5734.4
75°	242.7	250.7	295.2	422.2	550.6	529.3	1373.8	4621.3	*5553.6*	6291.7	4671.9
77.5°	180.9	190.8	211.5	264.6	385.7	379.0	593.8	3000.9	*3592.0*	4109.3	2838.0
80°	130.3	132.3	144.3	169.6	244.7	222.1	282.6	1564.6	*1794.0*	1965.6	1112.4
82.5°	79.1	81.1	96.4	104.4	151.6	139.6	147.0	506.7	*726.1*	770.7	415.6
85°	23.3	24.6	43.9	47.9	63.2	59.8	59.2	206.1	*246.0*	314.5	163.6
87.5°	0.0	0.0	0.0	0.0	0.7	4.0	7.3	36.6	*55.2*	76.5	39.9
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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Scaled Data Report

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CATALOG NUMBER: GWS-SA2D-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2	1073.2
2.5°	1084.5	1069.2	1061.2	1047.3	1037.3	1027.3	1017.4	1008.0	1004.1	998.1	999.4
5°	1103.8	1079.9	1055.9	1028.7	1005.4	986.1	968.8	953.5	946.9	940.9	943.6
7.5°	1133.1	1097.2	1051.3	1001.4	964.8	938.2	920.3	909.6	906.3	901.7	901.7
10°	1170.3	1116.4	1036.0	964.8	920.9	899.7	891.7	891.0	894.3	895.0	893.7
12.5°	1211.5	1135.1	1013.4	921.6	884.4	877.7	883.7	895.0	906.3	912.3	911.0
15°	1254.1	1147.0	974.8	880.4	857.8	866.4	885.7	908.3	930.3	941.6	940.9
17.5°	1294.0	1149.7	924.9	840.5	834.5	856.4	889.7	924.9	954.9	970.8	971.5
20°	1338.5	1145.0	873.7	804.6	811.2	847.1	891.0	933.6	968.8	984.8	988.8
22.5°	1379.1	1129.1	823.9	770.7	791.3	835.8	880.4	920.3	951.5	966.8	972.1
25°	1415.7	1098.5	769.3	742.1	776.0	819.9	853.8	881.7	903.7	913.0	920.3
27.5°	1435.6	1052.6	728.1	719.5	761.4	797.3	815.9	824.5	831.8	829.2	834.5
30°	1439.6	995.4	692.2	701.5	739.4	766.0	770.0	761.4	748.7	728.1	732.8
32.5°	1435.6	929.6	662.3	682.2	714.8	730.8	725.4	702.8	672.3	640.3	642.3
35°	1436.9	863.1	637.7	661.0	686.2	694.9	681.6	650.3	617.7	588.5	587.1
37.5°	1451.6	807.2	617.1	640.3	658.3	659.6	645.0	612.4	595.8	573.8	571.2
40°	1492.1	766.0	598.4	619.7	631.0	630.4	613.7	590.5	601.8	594.5	592.5
42.5°	1558.6	740.7	583.2	597.8	605.8	607.1	593.8	579.2	603.8	594.5	591.1
45°	1665.7	739.4	572.5	575.8	588.5	597.8	588.5	571.8	581.2	535.9	527.3
47.5°	1792.7	762.0	564.5	556.6	578.5	595.1	580.5	553.9	534.6	493.4	487.4
50°	1945.6	807.9	557.2	535.9	563.9	585.1	570.5	533.9	504.7	482.7	479.4
52.5°	2127.1	868.4	547.9	512.7	541.9	579.8	570.5	532.0	493.4	473.4	470.1
55°	2317.3	938.2	537.3	484.7	517.3	581.2	575.2	518.0	484.7	474.1	471.4
57.5°	2553.4	1022.0	518.0	452.2	495.4	569.2	556.6	510.0	478.8	470.1	467.5
60°	2859.9	1146.4	481.4	418.9	470.1	547.9	539.9	496.7	462.8	455.5	453.5
62.5°	3345.3	1357.1	436.9	387.0	440.2	503.4	515.3	471.4	442.9	442.2	441.5
65°	4136.6	1610.5	384.3	358.4	408.9	466.8	482.7	445.5	422.2	429.6	428.9
67.5°	4691.2	1632.4	341.1	328.5	372.4	426.9	450.2	418.9	393.6	407.6	406.9
70°	*4296.8*	*1273.4*	*303.9*	*297.2*	*333.1*	*383.7*	*414.9*	*385.7*	*360.4*	*373.7*	*371.0*
72.5°	3623.9	976.1	268.6	264.6	293.2	338.5	369.7	352.4	325.8	325.8	319.8
75°	2912.4	805.2	231.4	229.4	248.7	292.6	327.8	298.6	274.0	272.6	268.6
77.5°	1670.3	528.0	194.2	192.8	198.8	244.7	254.7	248.7	230.1	221.4	218.8
80°	665.6	274.6	152.9	144.3	150.3	179.5	200.8	190.8	174.9	164.2	158.3
82.5°	258.0	137.6	107.7	94.4	103.1	129.7	145.6	142.3	131.7	107.7	101.1
85°	105.1	67.2	64.5	54.5	59.8	69.8	83.8	72.5	59.8	42.6	40.6
87.5°	27.9	24.6	23.9	14.6	11.3	3.3	0.7	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

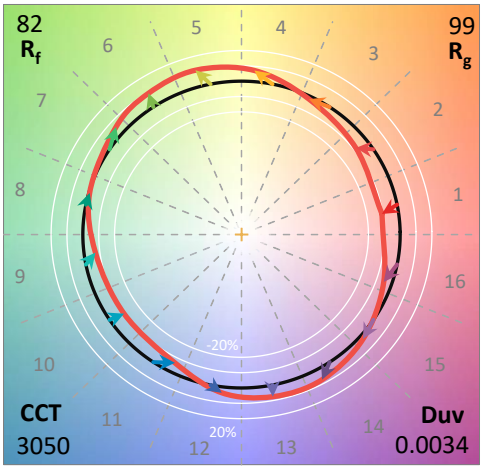
Test Information

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

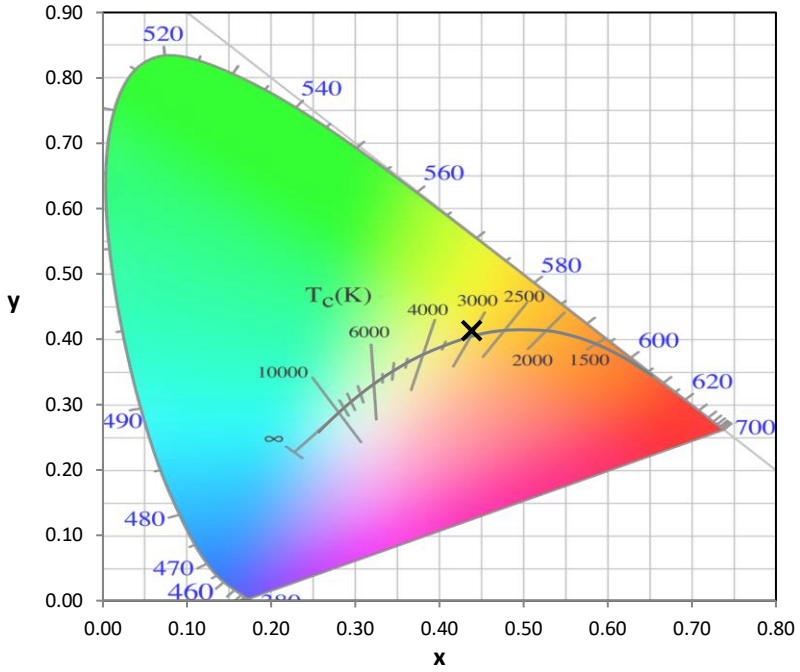
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

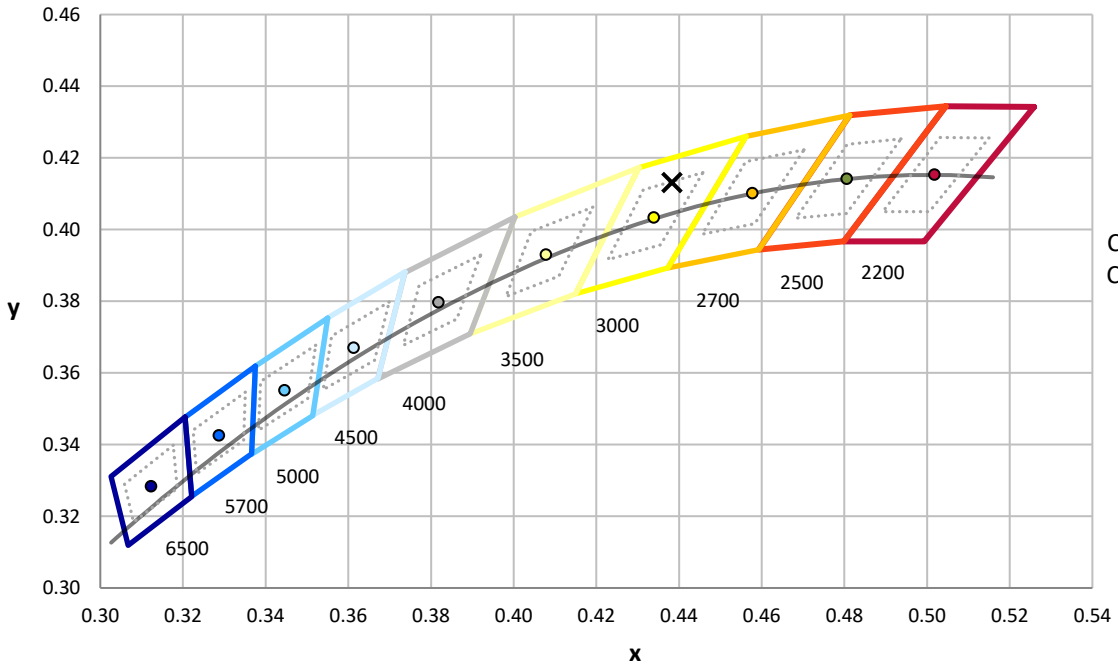
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

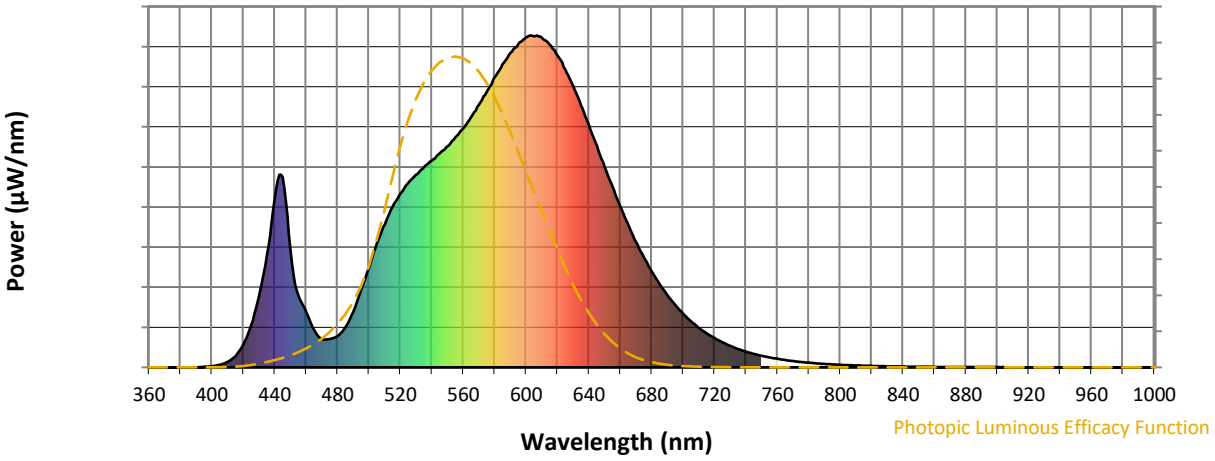


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

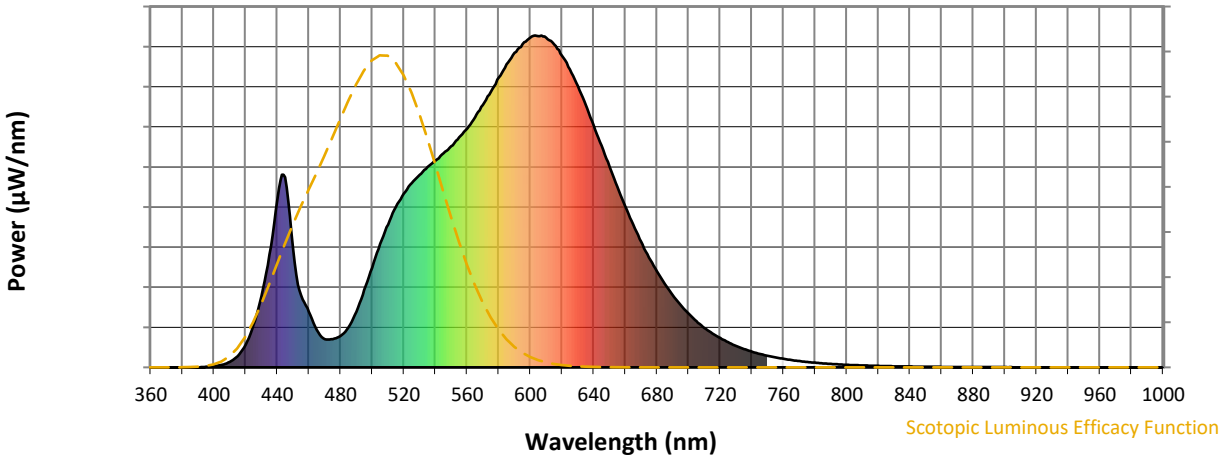


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

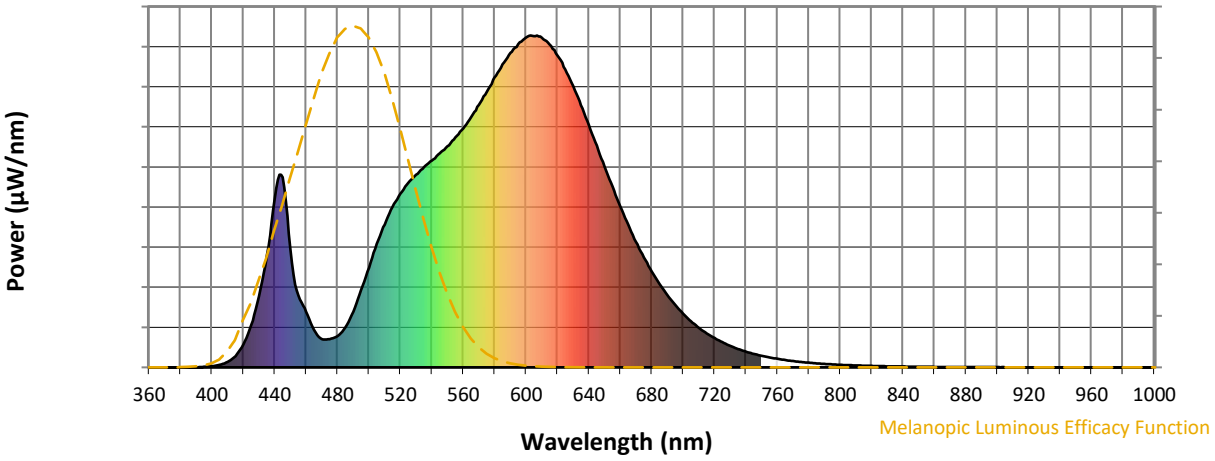


Scotopic Lumens: NR **S/P: 1.27**

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			

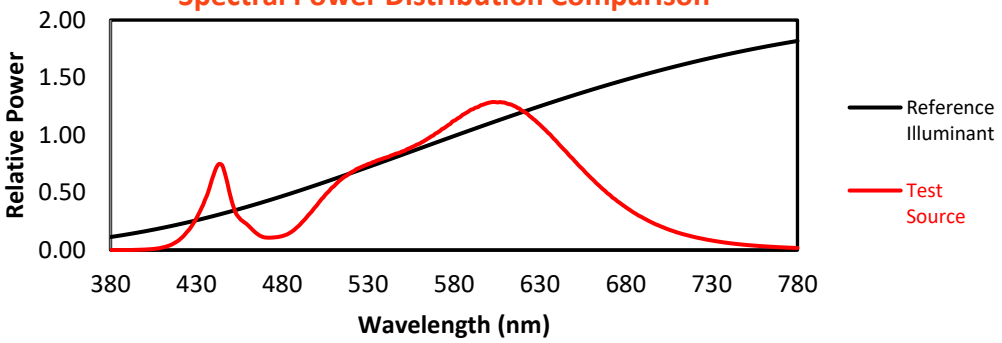
REPORT NUMBER: SP1-2408-195-9

TM-30-18

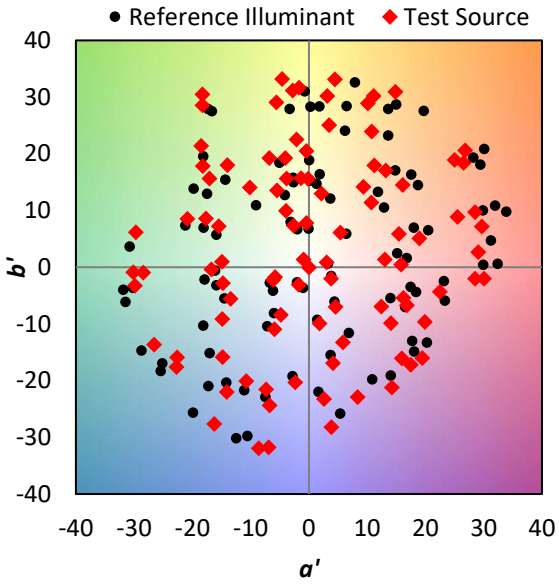
Summary

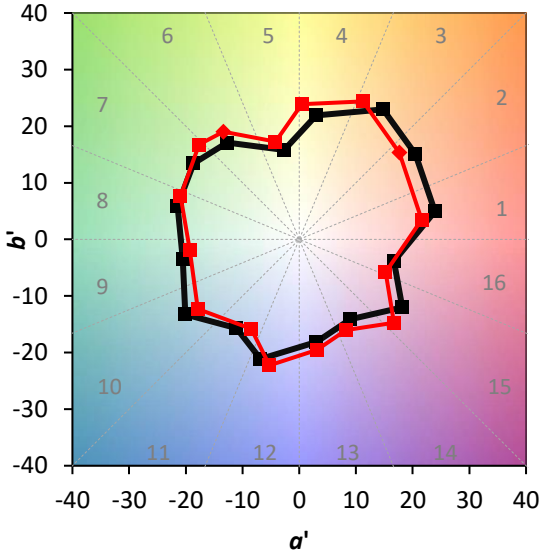
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

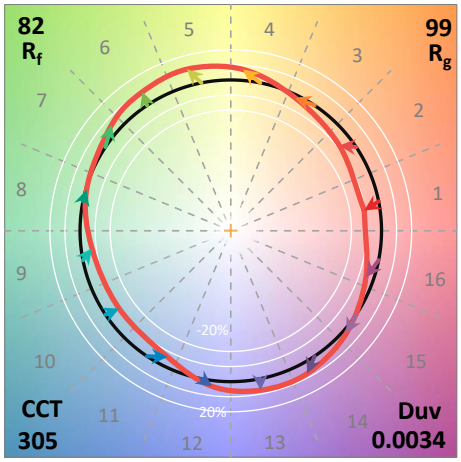
Spectral Power Distribution Comparison

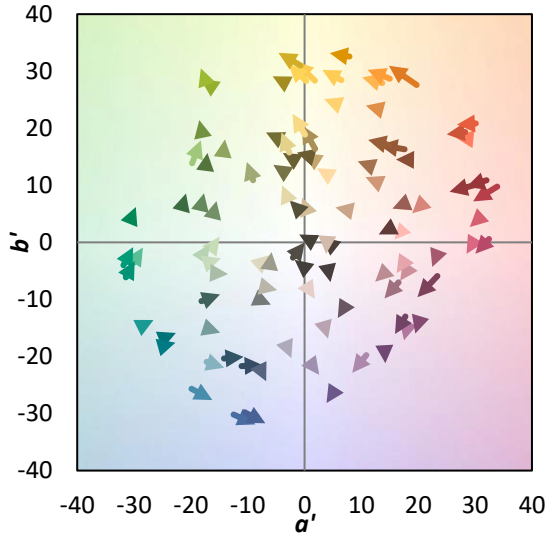


Color Vector Graphics







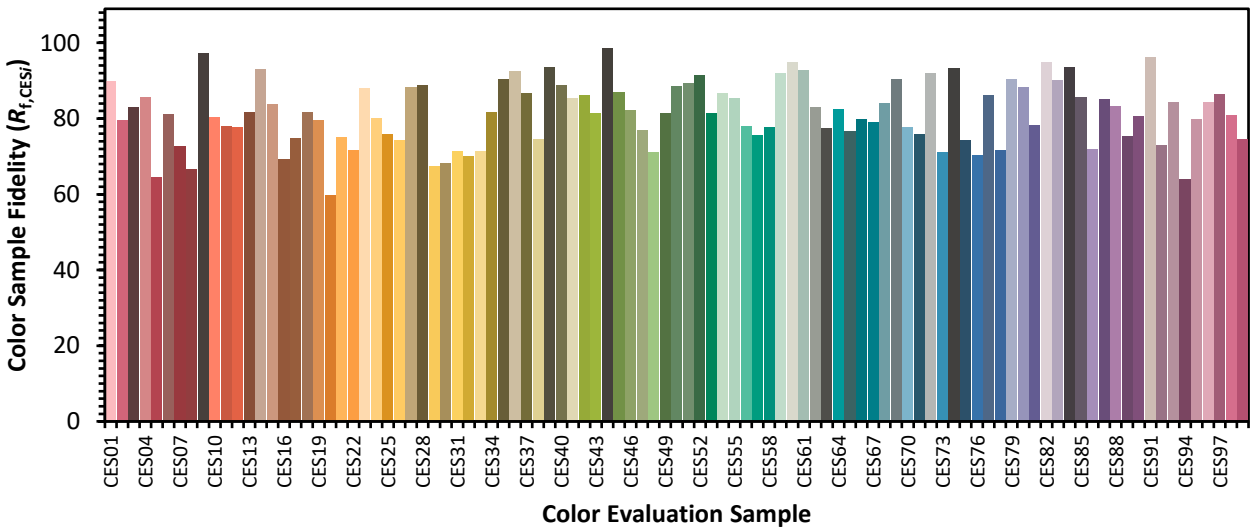


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

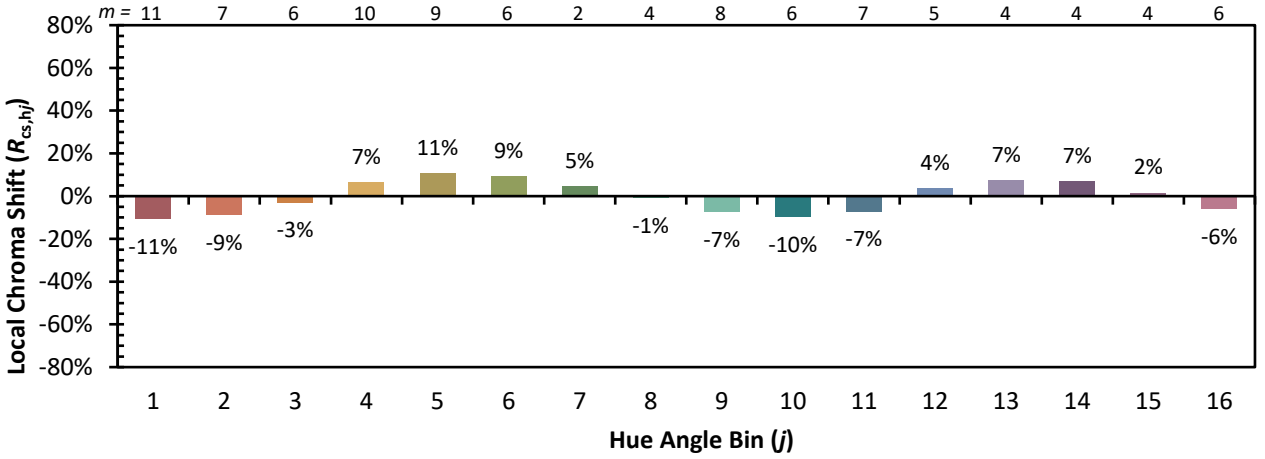
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

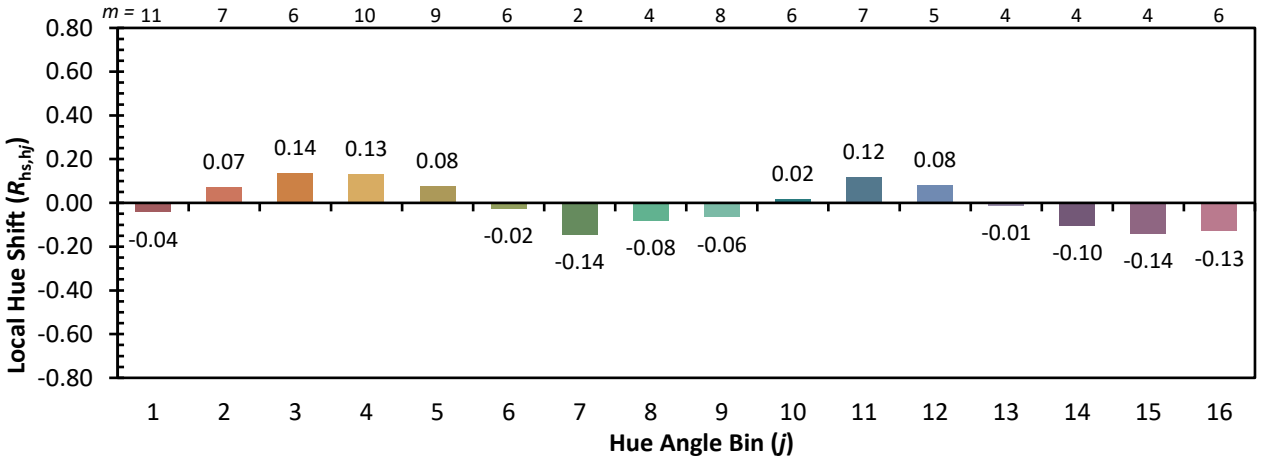


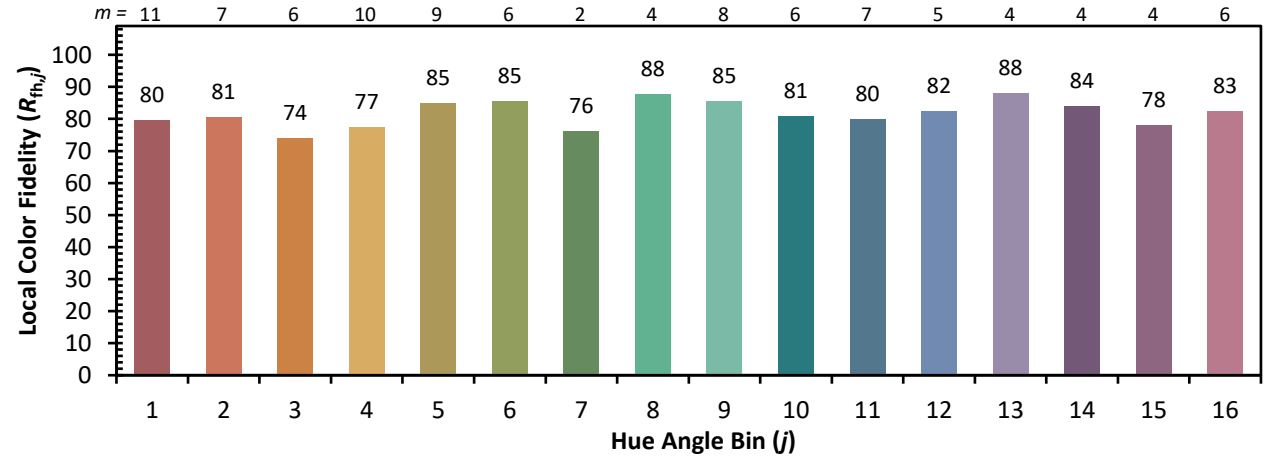
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



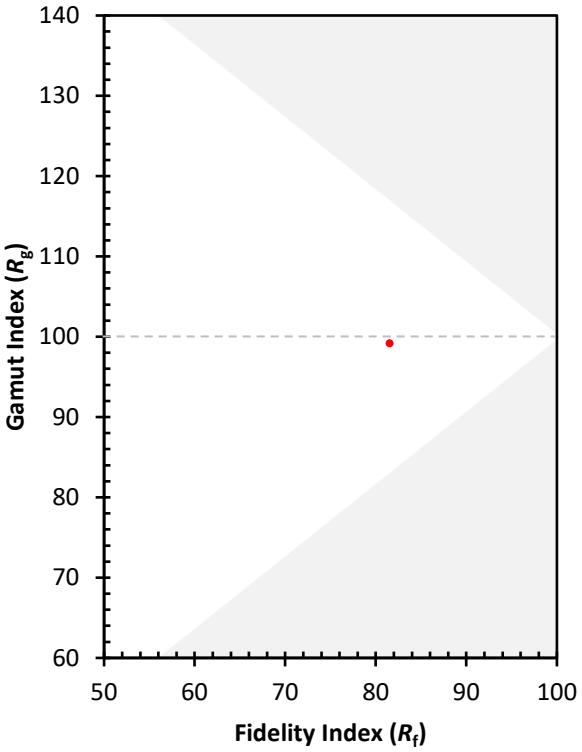


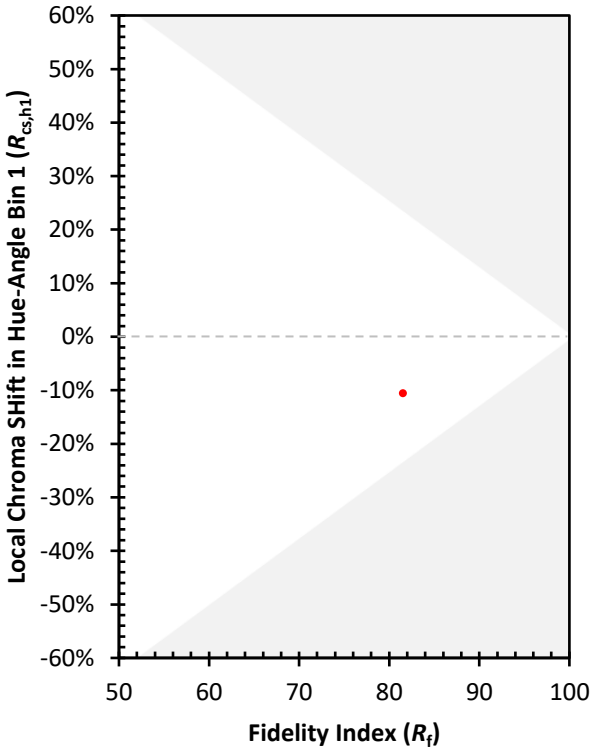


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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