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: P641959

Luminaire Tested: GWS-SA6B-830-U-T2R-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:	P641959
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6B-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13564.4 lumens
Efficiency:	N/A
Efficacy:	97.7 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	138.9
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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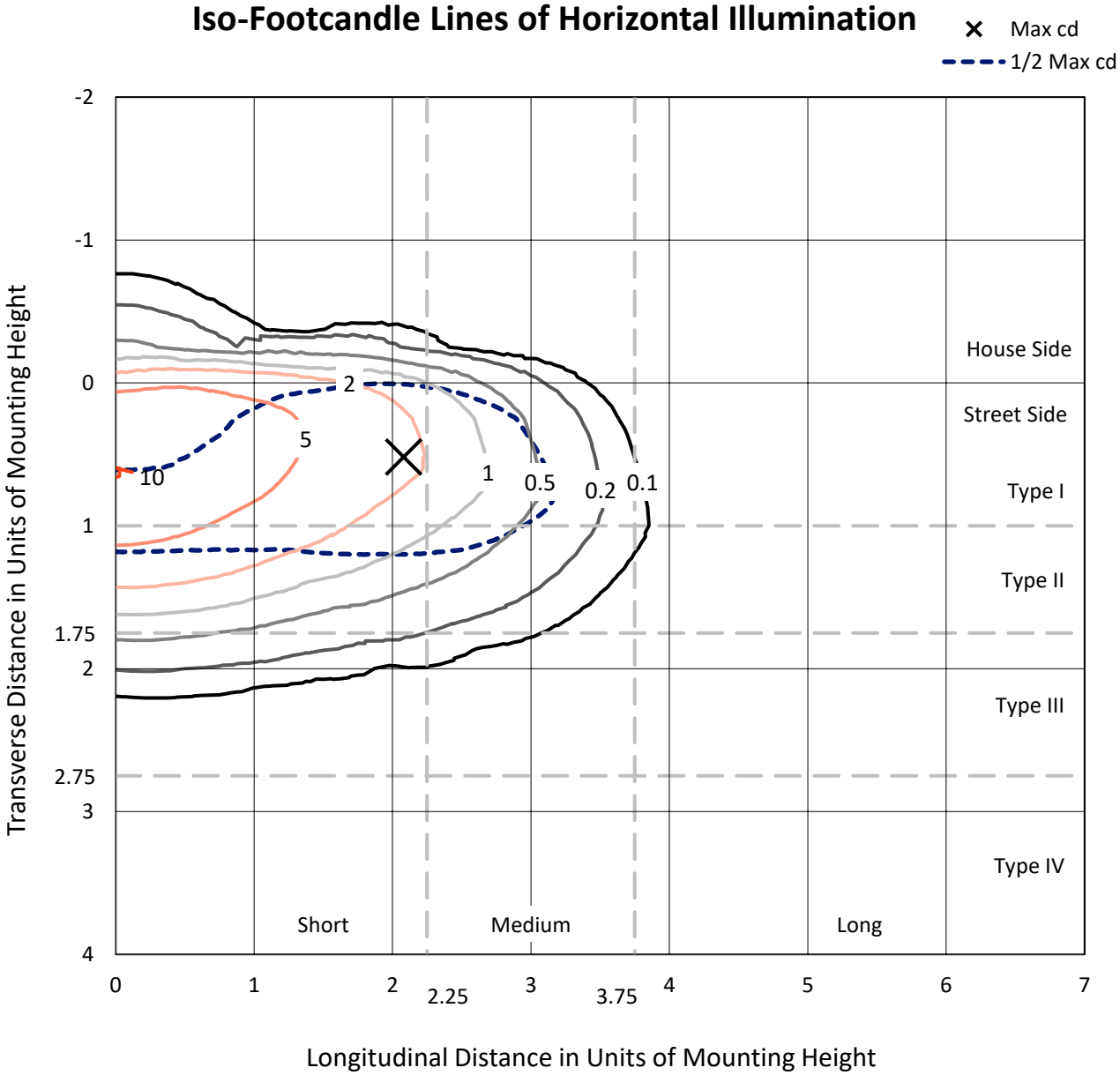
REPORT NUMBER: P641959
CATALOG NUMBER: GWS-SA6B-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - N/A

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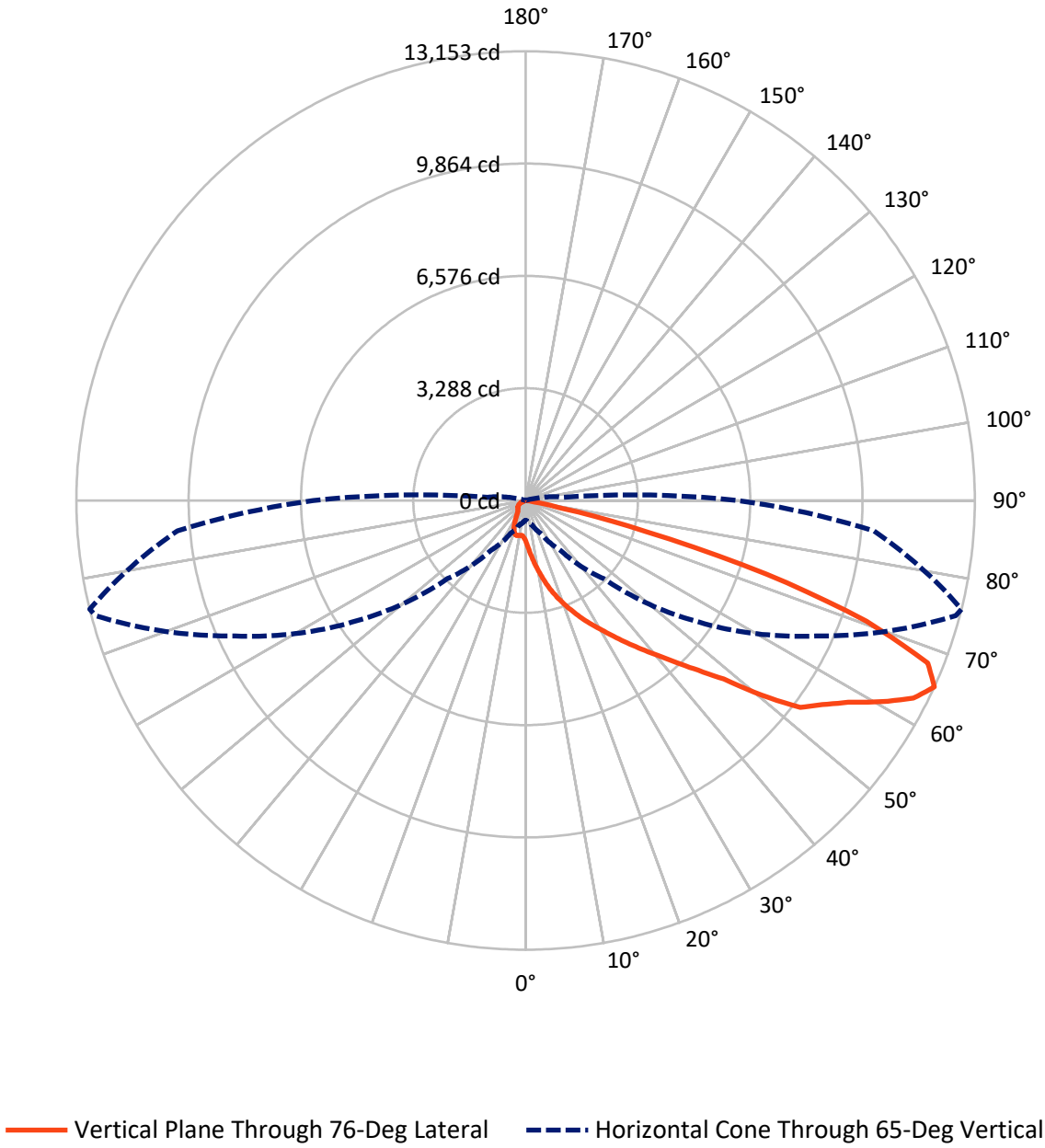
Luminous Intensity Polar Plot



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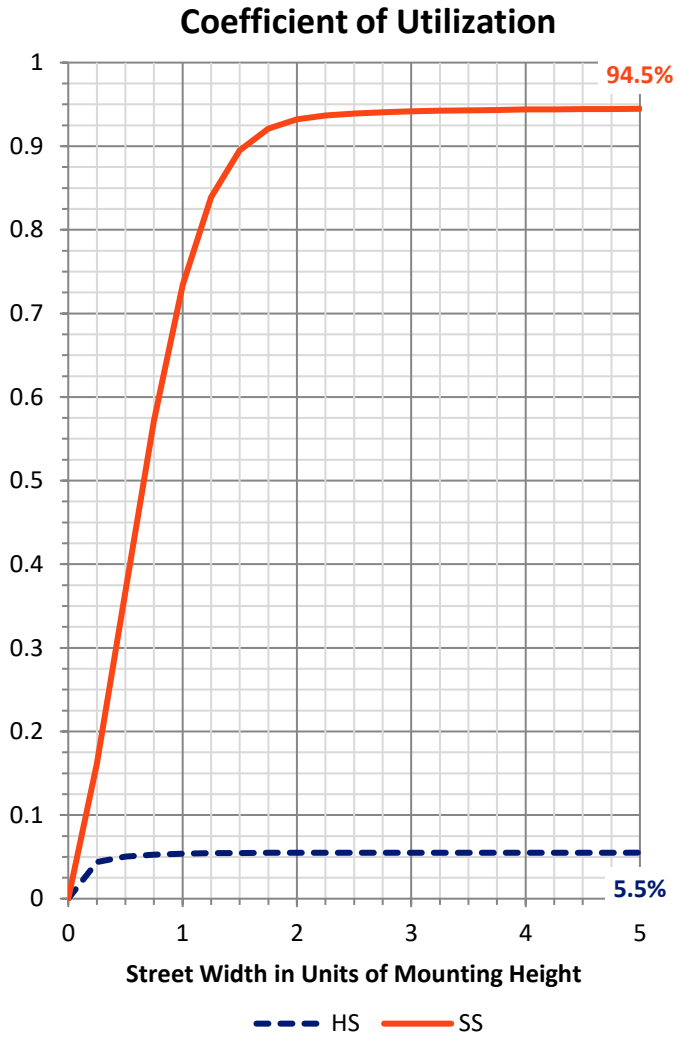
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.0	0.0	750.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	12814.4	0.0	12814.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	13564.4	0.0	13564.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	1.1
10°-20°	554.4	4.1
20°-30°	1131.0	8.3
30°-40°	2011.5	14.8
40°-50°	2973.5	21.9
50°-60°	3404.5	25.1
60°-70°	2597.5	19.1
70°-80°	727.6	5.4
80°-90°	18.3	0.1
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°	13564.4	100.0
0°-180°	13564.4	100.0



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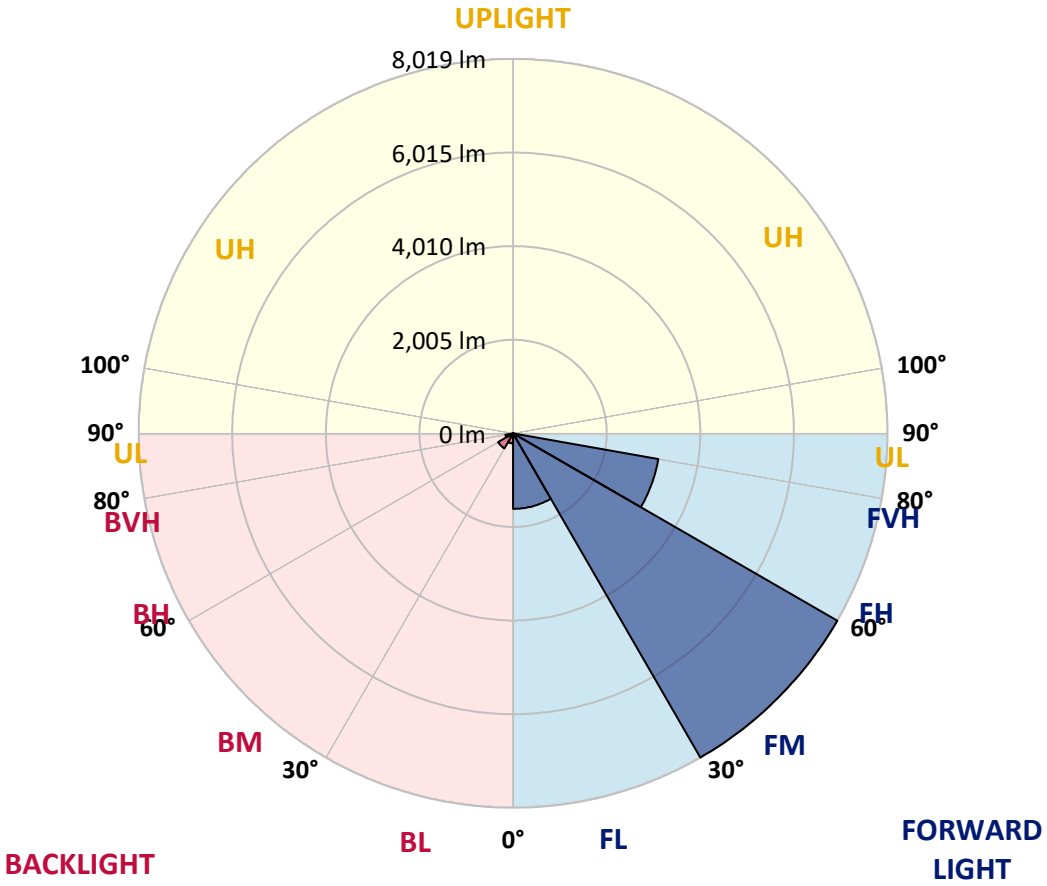
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1617.5	11.9			
FM	(30°-60°)	8019.5	59.1			
FH	(60°-80°)	3160.2	23.3			G2/5000
FVH	(80°-90°)	17.2	0.1			G1/100
BL	(0°-30°)	214.0	1.6	B1/500		
BM	(30°-60°)	370.1	2.7	B1/1000		
BH	(60°-80°)	164.9	1.2	B1/500		G1/500
BVH	(80°-90°)	1.1	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 II Short



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REPORT NUMBER: P641959
CATALOG NUMBER: GWS-SA6B-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	*1200.9*	1200.9
2.5°	1850.9	1878.6	1856.9	1820.7	1750.8	1683.3	1596.4	1477.1	1381.8	*1369.8*	1280.5
5°	2499.6	2497.1	2450.1	2403.1	2329.5	2213.8	2039.0	1817.1	1603.7	*1585.6*	1385.4
7.5°	2885.4	2889.0	2862.5	2826.3	2754.0	2634.6	2452.5	2184.9	1872.6	*1836.4*	1528.9
10°	3209.8	3208.5	3189.3	3172.4	3107.3	3027.7	2832.3	2538.1	2161.9	*2105.3*	1689.3
12.5°	3453.3	3461.8	3471.4	3488.3	3460.6	3382.2	3197.7	2877.0	2454.9	*2392.2*	1872.6
15°	3646.2	3648.7	3684.8	3749.9	3772.8	3731.8	3564.2	3204.9	2744.3	*2690.1*	2083.6
17.5°	3704.1	3708.9	3770.4	3889.8	4010.4	4033.3	3906.7	3535.3	3028.9	*2971.0*	2288.5
20°	3825.9	3836.8	3882.6	3987.5	4139.4	4262.4	4213.0	3869.3	3313.4	*3237.5*	2498.3
22.5°	4209.3	4215.4	4199.7	4213.0	4291.3	4433.6	4463.8	4192.5	3605.2	*3524.5*	2725.0
25°	4868.9	4871.3	4761.6	4657.9	4598.8	4625.3	4691.6	4490.3	3894.6	*3815.0*	2936.0
27.5°	5553.8	5562.2	5430.8	5254.7	5043.7	4923.1	4903.9	4762.8	4186.4	*4098.4*	3144.6
30°	6198.8	6198.8	6060.2	5845.6	5563.4	5328.3	5189.6	5037.7	4498.7	*4402.3*	3358.1
32.5°	6778.8	6774.0	6596.8	6364.0	6085.5	5827.5	5535.7	5324.7	4846.0	*4738.7*	3604.0
35°	7257.5	7245.5	7044.1	6821.0	6523.2	6331.5	6005.9	5633.3	5222.2	*5114.9*	3857.2
37.5°	7619.2	7606.0	7421.5	7185.2	6909.0	6784.9	6512.3	6003.5	5618.9	*5521.2*	4138.2
40°	7815.8	7789.3	7661.4	7485.4	7253.9	7145.4	7032.0	6462.9	6085.5	*5963.7*	4469.8
42.5°	7873.7	7842.3	7757.9	7675.9	7536.0	7450.4	7572.2	6981.4	6598.0	*6493.1*	4848.4
45°	7702.4	7684.4	7677.1	7736.2	7761.5	7785.6	8085.9	7555.3	7163.5	*7083.9*	5324.7
47.5°	7290.1	7285.2	7349.2	7595.1	7862.8	8117.2	8644.1	8263.1	7896.6	*7811.0*	5990.3
50°	6528.0	6577.5	6755.9	7187.6	7722.9	8305.3	9166.2	9244.6	9083.0	*8957.6*	6858.4
52.5°	5336.7	5432.0	5832.3	6488.2	7257.5	8252.3	9407.4	10030.8	10196.0	*10065.7*	7480.6
55°	4187.6	4276.9	4633.8	5465.7	6491.9	7848.3	9418.2	10302.1	10662.6	*10542.0*	7901.4
57.5°	3119.3	3201.3	3525.7	4321.5	5450.1	7053.7	9160.2	10452.8	11216.0	*11138.9*	8565.8
60°	2039.0	2119.7	2412.7	3108.5	4227.4	5896.2	8524.8	10421.4	11969.7	*11962.4*	9382.1
62.5°	1131.0	1194.9	1407.1	1949.7	2950.5	4566.2	7526.4	10106.7	12699.1	*12745.0*	10054.9
65°	*578.8*	*619.8*	*748.8*	*1071.9*	*1785.7*	*3237.5*	*6213.3*	*9385.7*	*13036.8*	*13152.5*	*10232.1*
67.5°	378.6	391.9	423.2	557.1	956.2	2036.5	4676.0	8229.4	12561.7	*12696.7*	9637.7
70°	307.5	318.3	336.4	371.4	493.2	1081.6	3071.1	6572.6	10496.2	*10587.8*	7674.7
72.5°	225.5	239.9	274.9	297.8	355.7	593.2	1597.6	4314.2	7208.1	*7369.6*	4823.1
75°	166.4	174.8	203.8	235.1	290.6	375.0	611.3	2268.0	3722.2	*3628.2*	2025.7
77.5°	100.1	106.1	130.2	150.7	207.4	233.9	213.4	838.0	1132.2	*1064.7*	489.5
80°	49.4	55.5	85.6	113.3	132.6	94.0	89.2	233.9	252.0	*252.0*	123.0
82.5°	16.9	21.7	45.8	74.8	65.1	36.2	42.2	60.3	67.5	*71.1*	36.2
85°	0.0	0.0	10.9	21.7	9.6	4.8	10.9	13.3	16.9	*18.1*	12.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	*4.8*	4.8
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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CATALOG NUMBER: GWS-SA6B-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1232.3	1175.6	1090.0	1012.8	953.8	898.3	856.1	822.3	816.3	797.0	799.4
5°	1287.8	1185.3	1027.3	905.5	819.9	762.0	713.8	677.6	662.0	646.3	634.2
7.5°	1373.4	1225.1	1003.2	854.9	754.8	665.6	590.8	530.5	501.6	483.5	471.5
10°	1478.3	1280.5	1004.4	824.7	676.4	540.2	437.7	371.4	340.0	330.4	329.2
12.5°	1603.7	1350.5	1014.1	775.3	563.1	401.5	324.4	294.2	284.6	276.1	276.1
15°	1736.3	1428.8	1014.1	684.9	429.3	313.5	280.9	261.7	249.6	244.8	242.4
17.5°	1876.2	1502.4	989.9	560.7	329.2	276.1	249.6	231.5	221.9	214.6	212.2
20°	2025.7	1572.3	929.6	429.3	282.1	247.2	221.9	203.8	194.1	186.9	186.9
22.5°	2177.6	1637.4	832.0	330.4	249.6	219.4	195.3	178.5	168.8	161.6	161.6
25°	2318.7	1680.8	706.6	272.5	225.5	195.3	173.6	156.7	145.9	141.1	138.7
27.5°	2450.1	1708.6	567.9	239.9	202.6	174.8	151.9	136.3	127.8	124.2	121.8
30°	2586.4	1715.8	434.1	218.2	183.3	154.3	132.6	120.6	113.3	108.5	108.5
32.5°	2719.0	1707.4	331.6	200.2	166.4	136.3	118.2	107.3	101.3	97.7	96.5
35°	2854.1	1668.8	268.9	184.5	149.5	119.4	104.9	96.5	92.8	88.0	88.0
37.5°	3001.2	1616.9	233.9	168.8	132.6	107.3	94.0	88.0	83.2	79.6	78.4
40°	3184.4	1556.6	214.6	155.5	117.0	96.5	84.4	78.4	74.8	71.1	69.9
42.5°	3401.5	1497.6	205.0	141.1	104.9	85.6	76.0	68.7	65.1	60.3	59.1
45°	3708.9	1484.3	194.1	125.4	94.0	77.2	66.3	59.1	54.3	50.6	49.4
47.5°	4203.3	1521.7	176.0	108.5	83.2	67.5	56.7	50.6	44.6	41.0	38.6
50°	4694.1	1512.0	158.0	94.0	73.6	57.9	48.2	42.2	36.2	32.6	31.3
52.5°	4961.7	1466.2	141.1	83.2	63.9	49.4	41.0	33.8	30.1	26.5	25.3
55°	5204.1	1448.1	124.2	72.3	54.3	43.4	33.8	27.7	25.3	21.7	20.5
57.5°	5679.2	1490.3	109.7	62.7	47.0	37.4	28.9	22.9	20.5	16.9	15.7
60°	6175.9	1495.2	94.0	54.3	41.0	31.3	22.9	18.1	15.7	12.1	10.9
62.5°	6435.2	1373.4	77.2	45.8	33.8	26.5	19.3	14.5	12.1	7.2	7.2
65°	*6218.1*	*1110.5*	*65.1*	*37.4*	*26.5*	*20.5*	*14.5*	*10.9*	*7.2*	*3.6*	*1.2*
67.5°	5503.1	789.8	54.3	30.1	19.3	14.5	10.9	7.2	1.2	0.0	0.0
70°	4029.7	451.0	42.2	21.7	14.5	9.6	7.2	3.6	0.0	0.0	0.0
72.5°	2476.6	241.2	31.3	14.5	10.9	7.2	6.0	2.4	0.0	0.0	0.0
75°	939.3	115.8	19.3	9.6	8.4	6.0	3.6	1.2	0.0	0.0	0.0
77.5°	254.4	56.7	10.9	7.2	6.0	3.6	2.4	0.0	0.0	0.0	0.0
80°	66.3	26.5	7.2	4.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	12.1	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	9.6	4.8	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	1.2	1.2	1.2	0.0	0.0	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

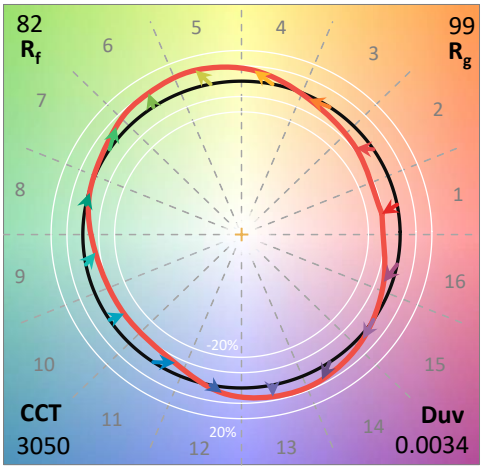
Test Information

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

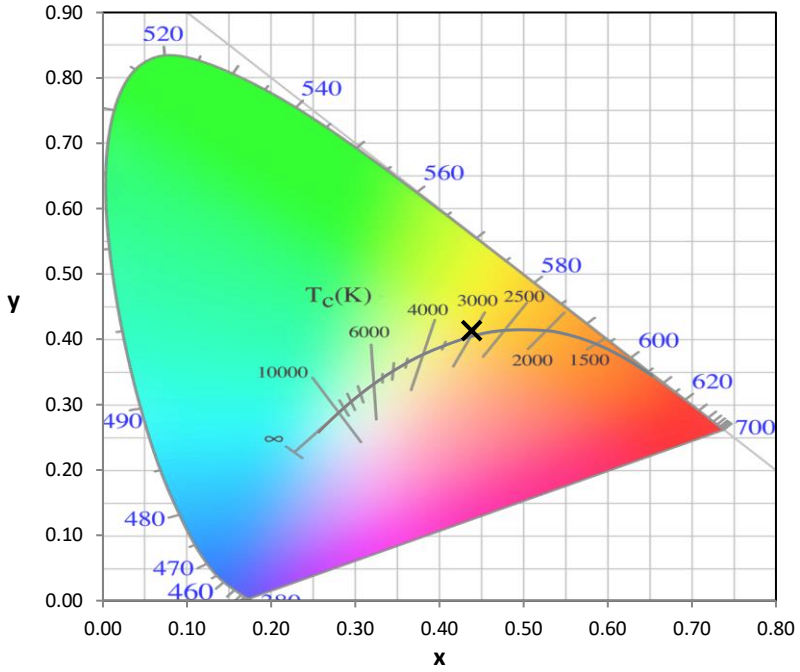
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

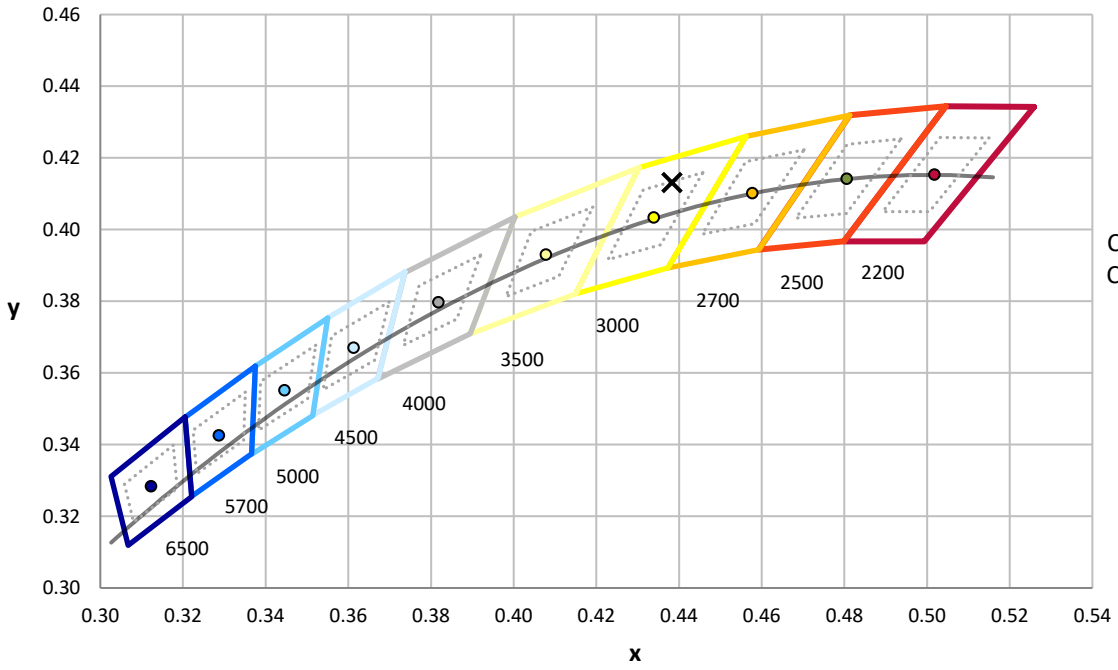
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

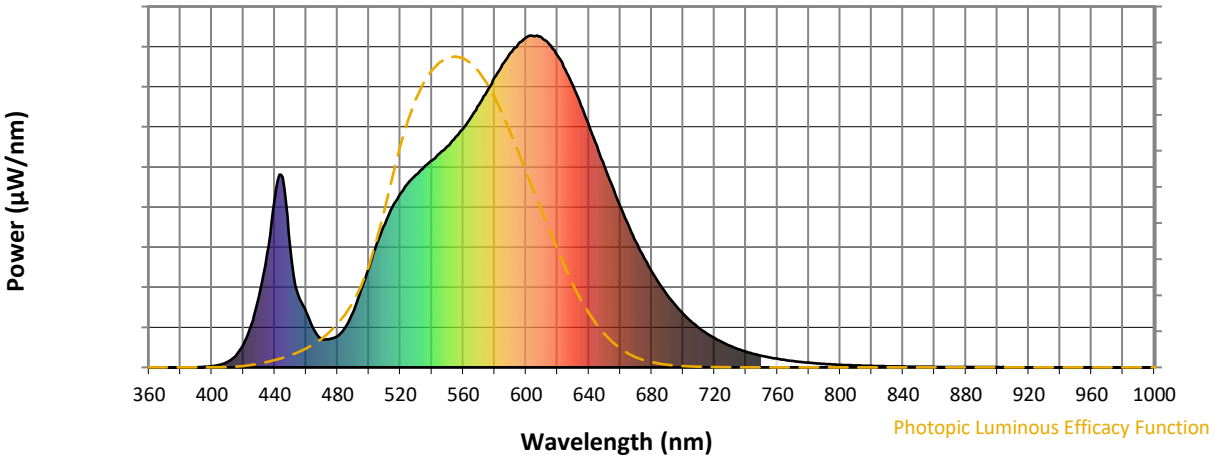


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

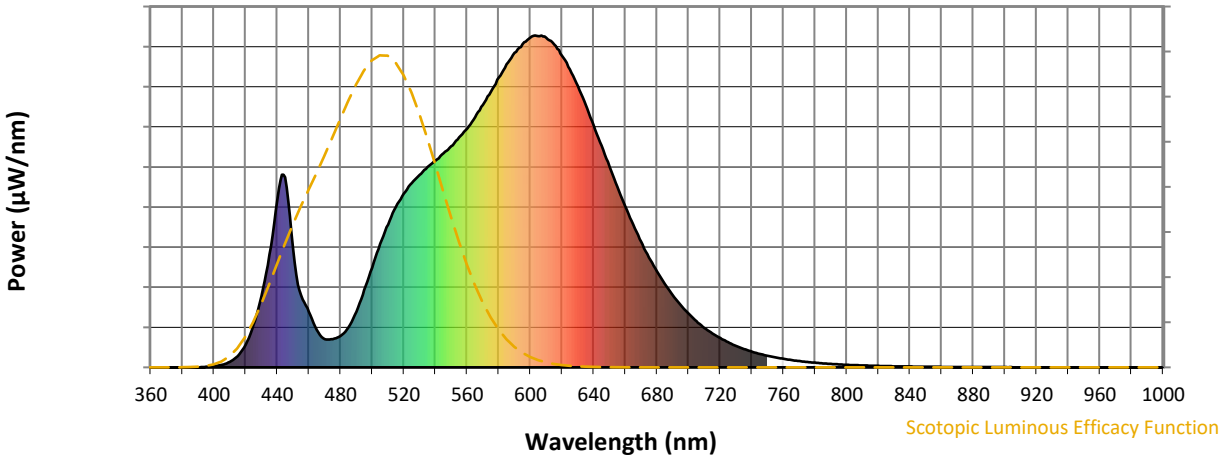


Photopic Lumens: NR

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

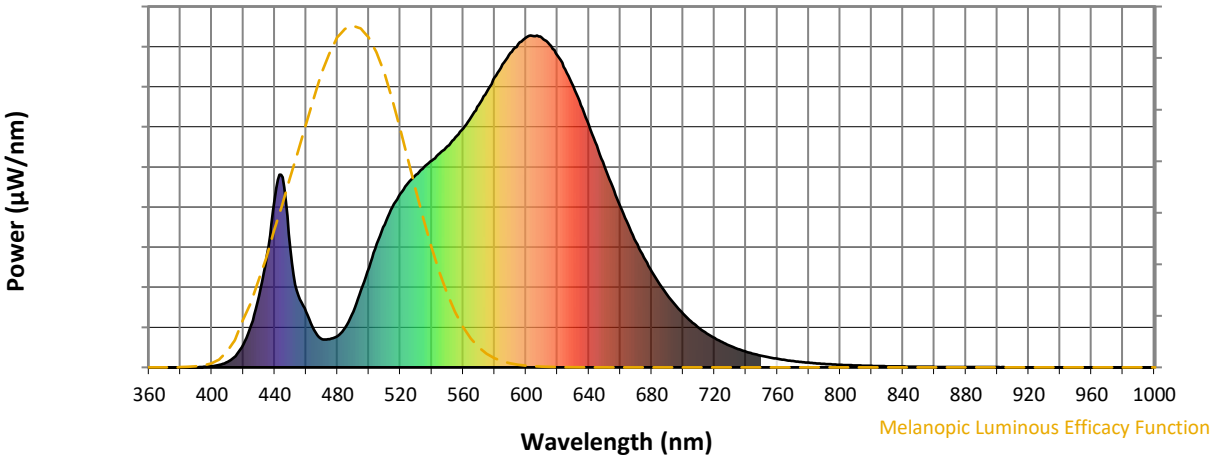


Scotopic Lumens: NR **S/P: 1.27**

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			

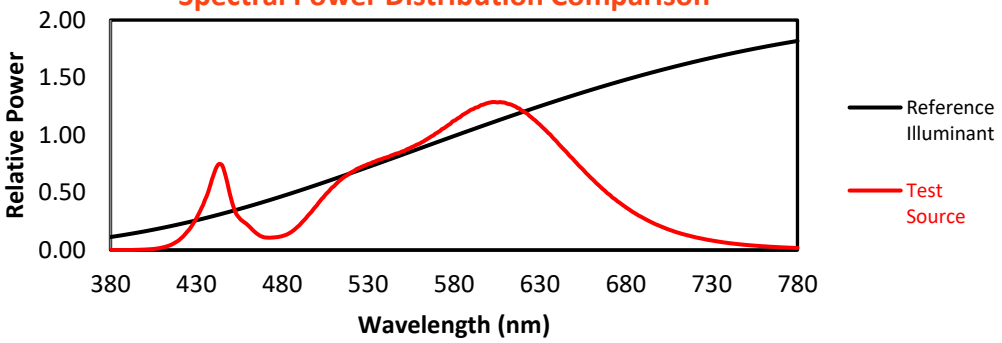
REPORT NUMBER: SP1-2408-195-9

TM-30-18

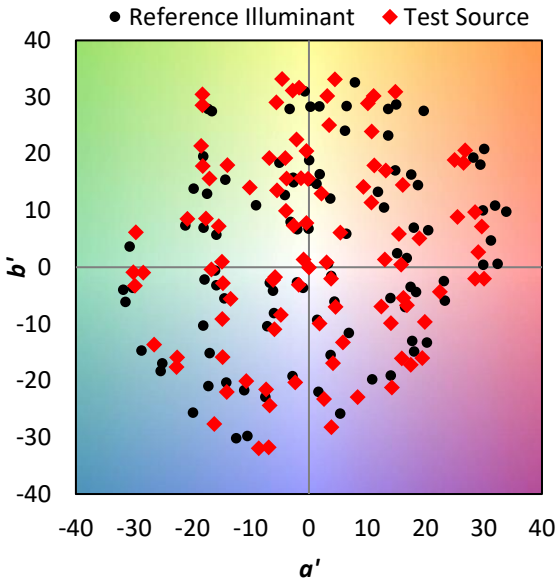
Summary

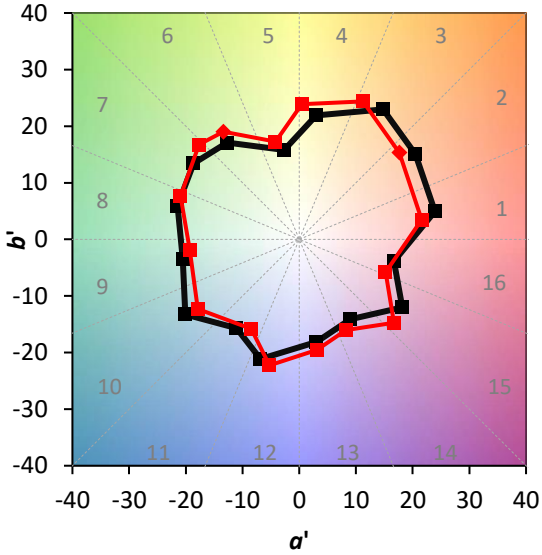
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

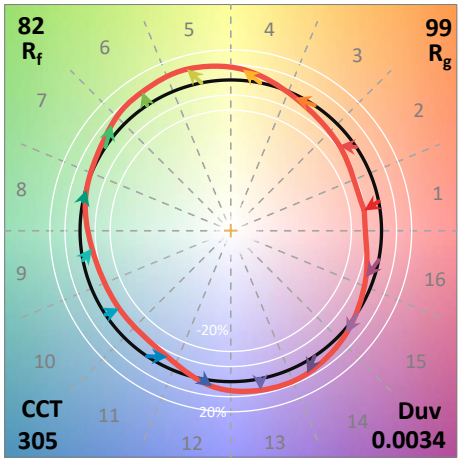
Spectral Power Distribution Comparison

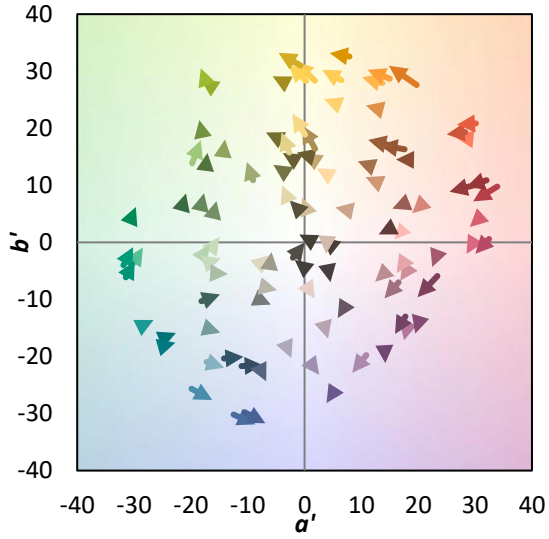


Color Vector Graphics







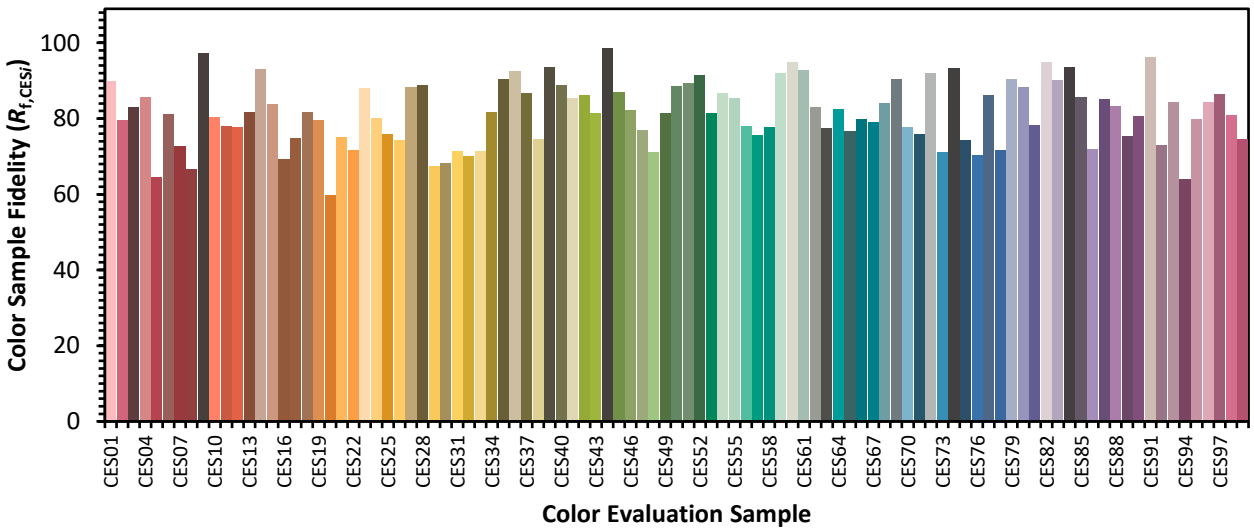


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

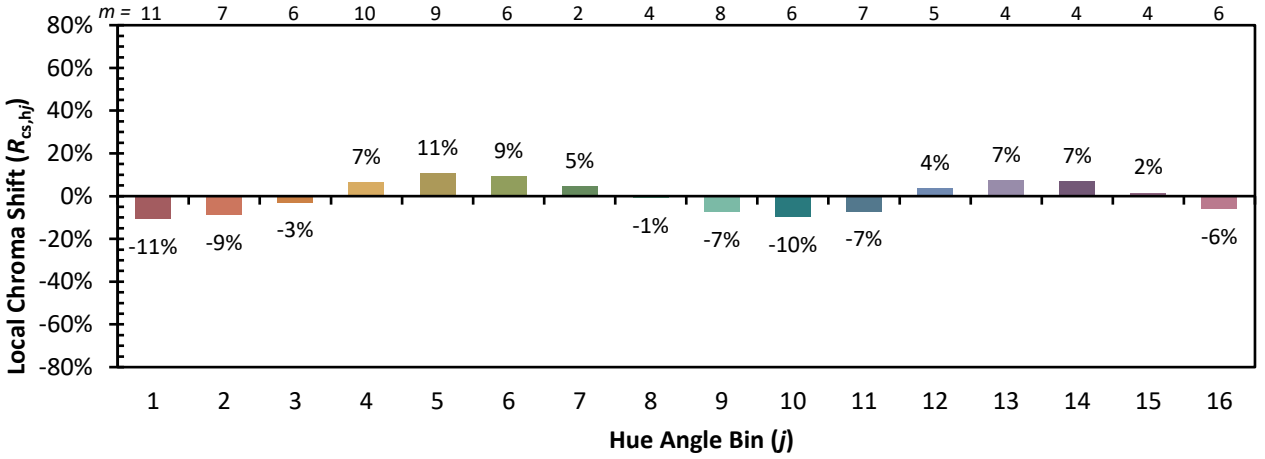
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

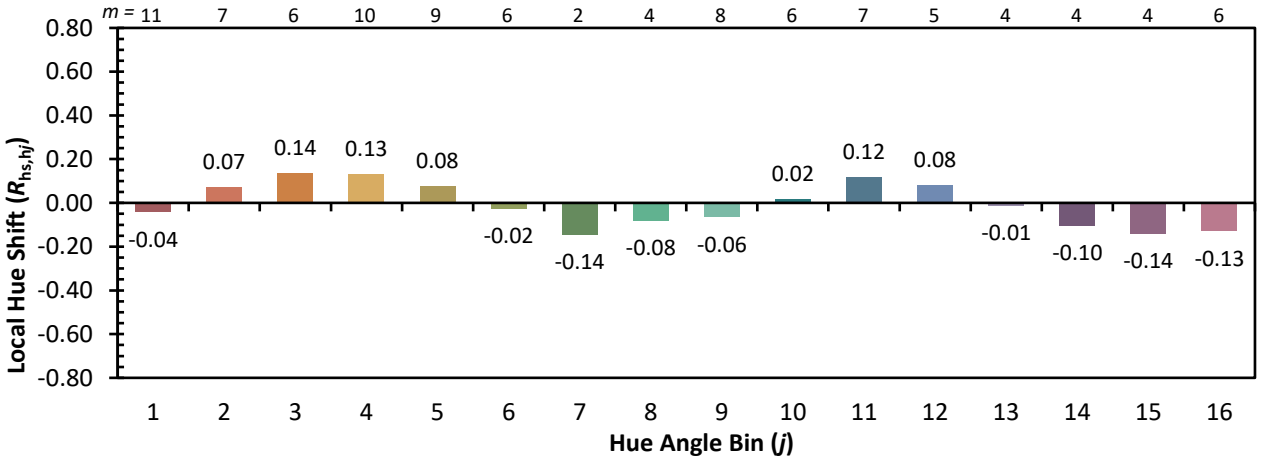


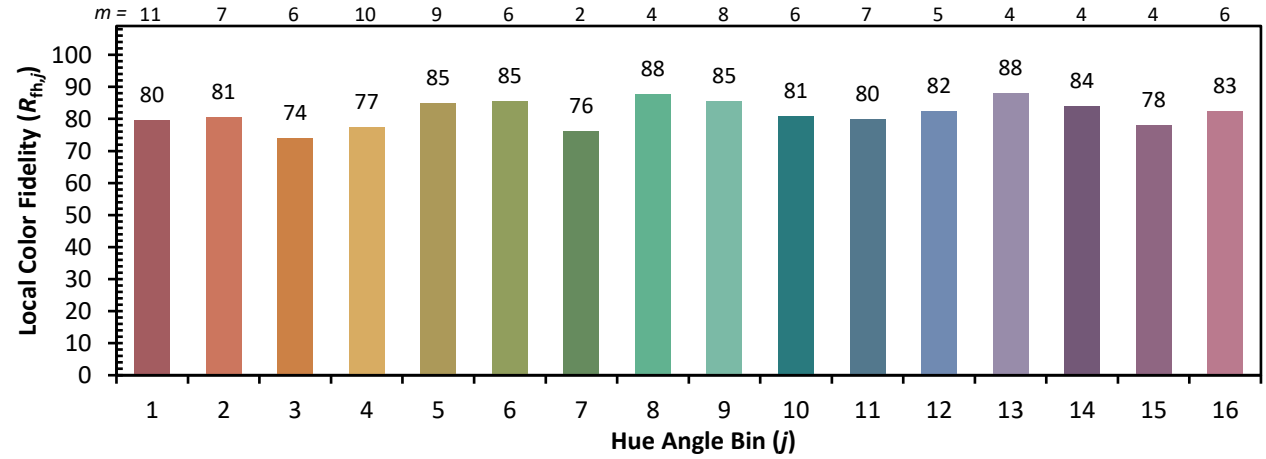
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



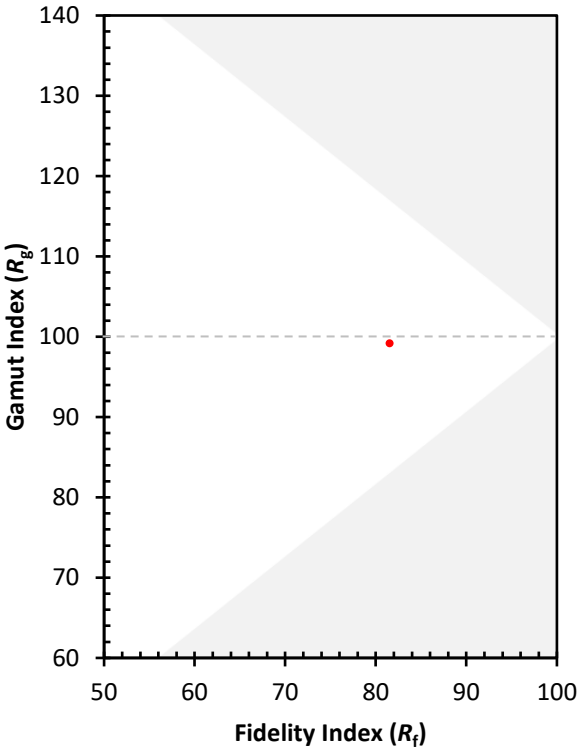


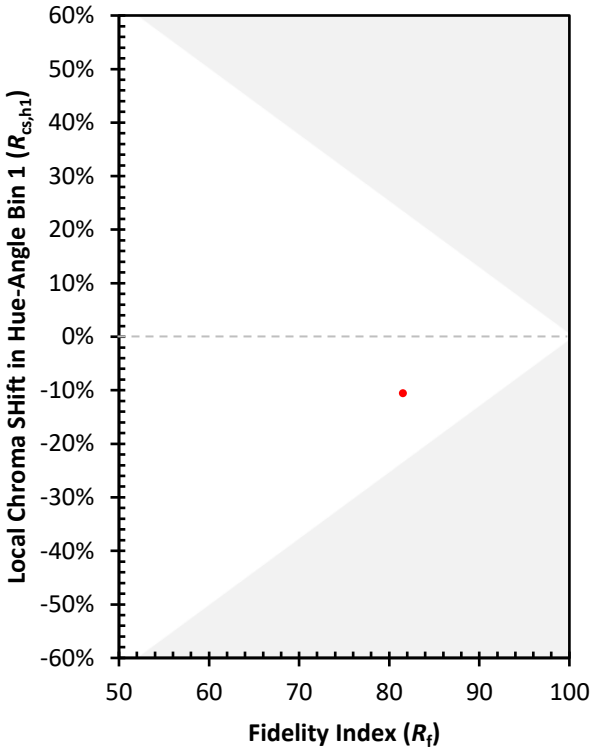


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)