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: P641967

Luminaire Tested: GWS-SA6B-830-U-T3R-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:	P641967
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6B-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13166.5 lumens
Efficiency:	N/A
Efficacy:	94.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G3

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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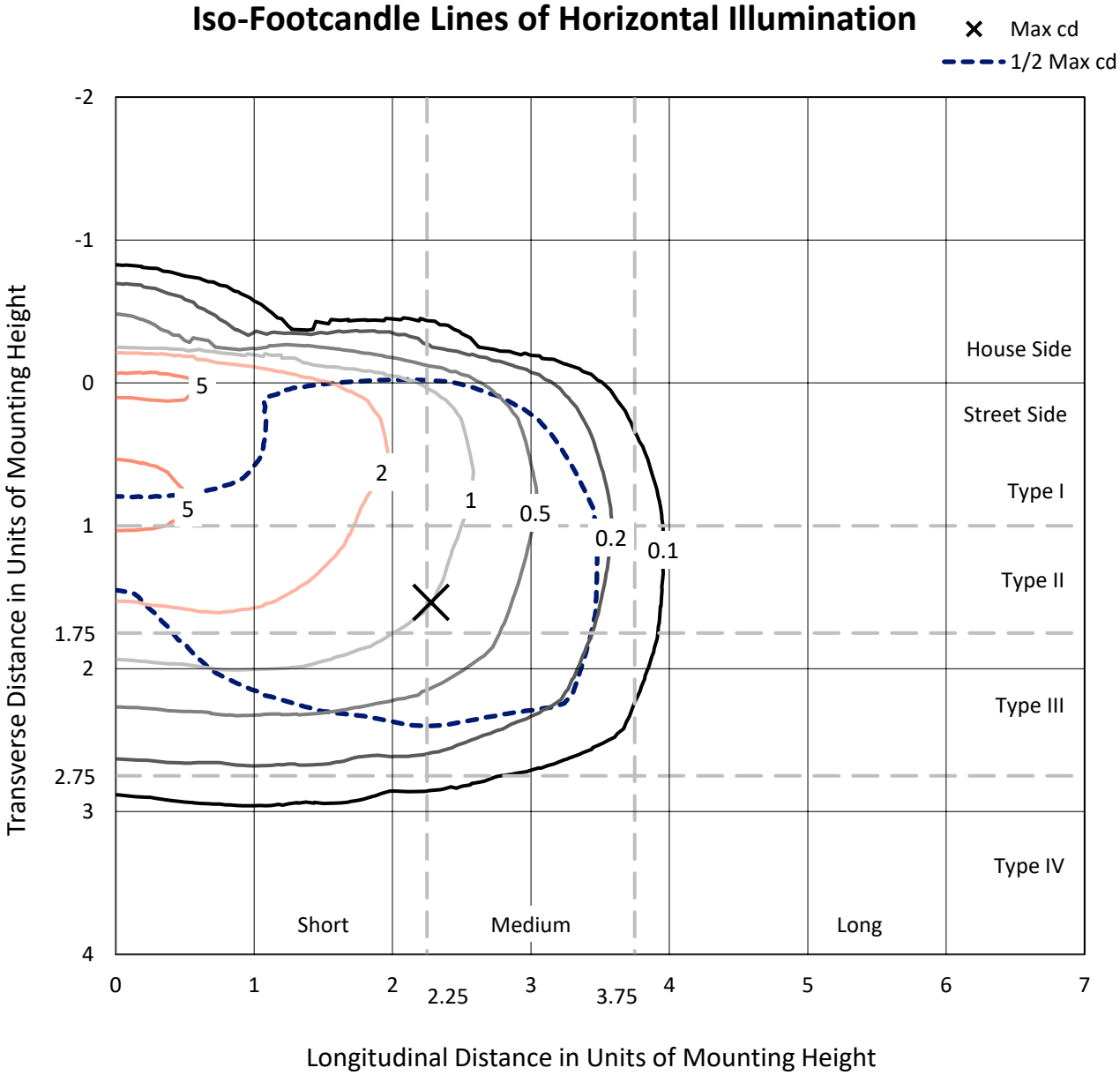
REPORT NUMBER: P641967
CATALOG NUMBER: GWS-SA6B-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Medium - N/A

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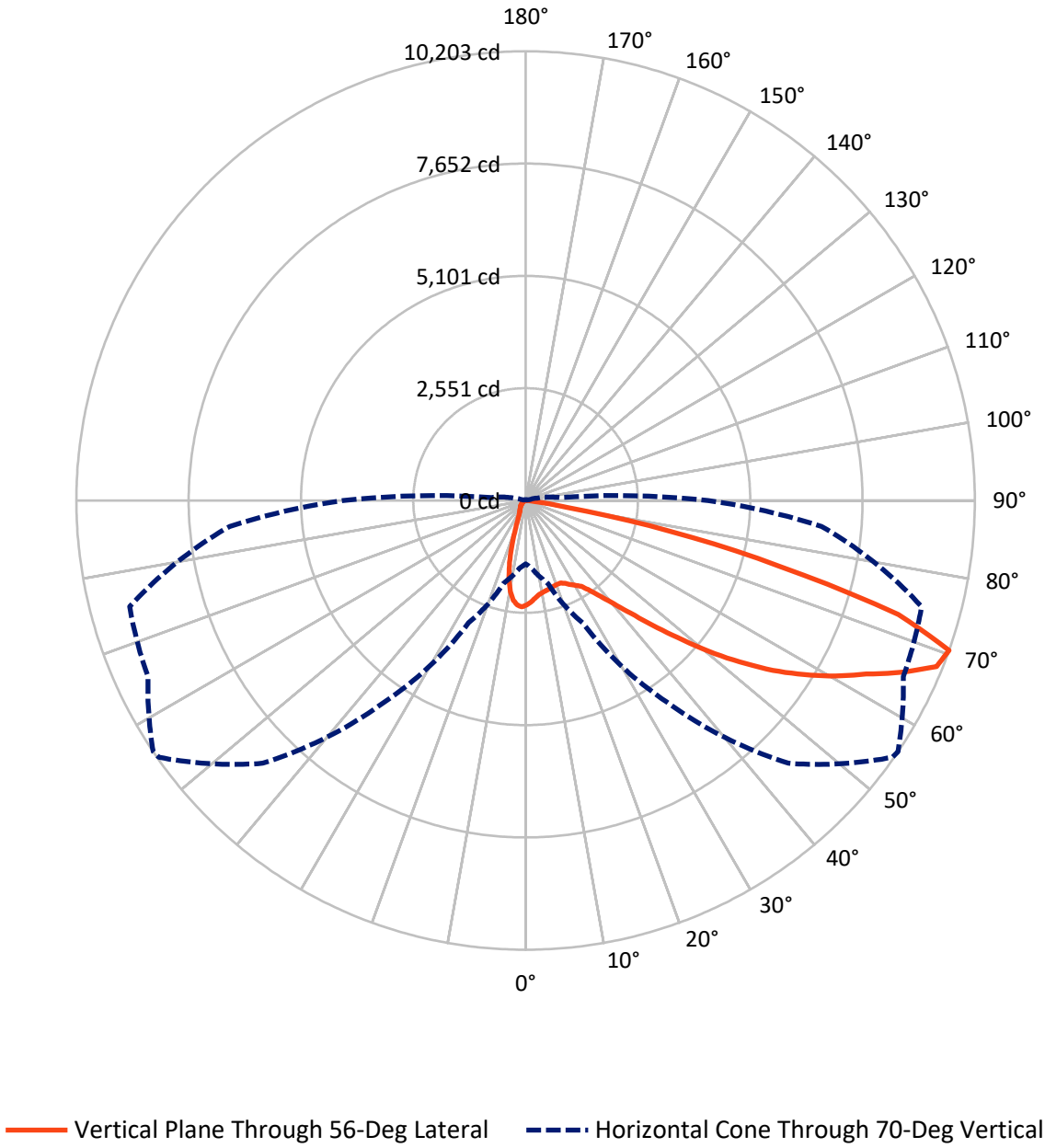
Luminous Intensity Polar Plot



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REPORT NUMBER: P641967
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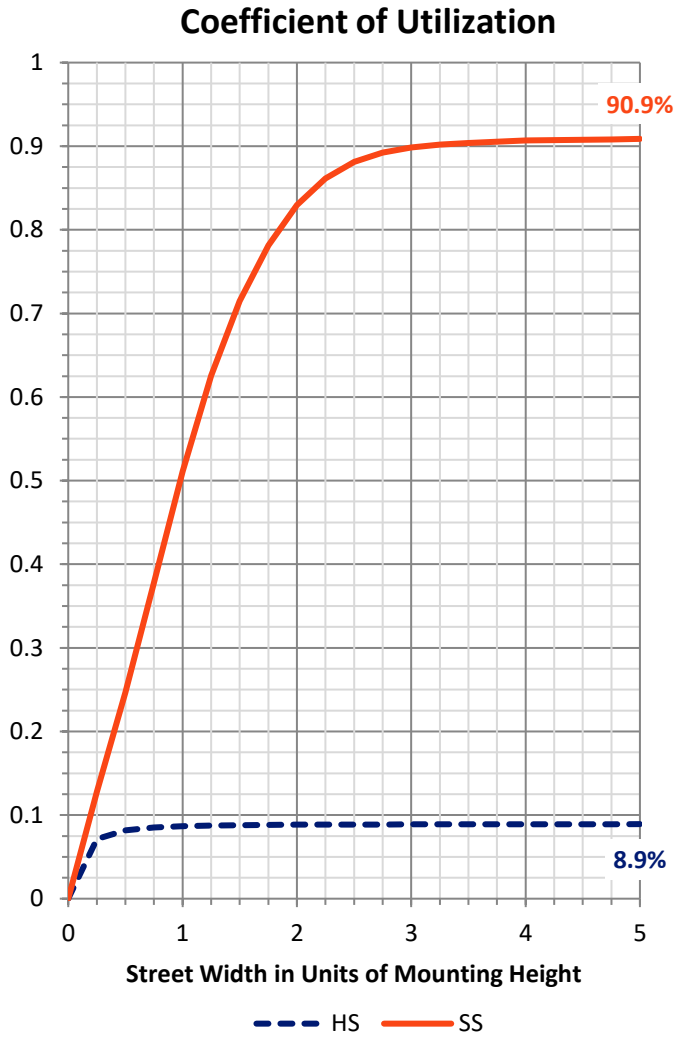
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.6	0.0	1182.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	11983.9	0.0	11983.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	13166.5	0.0	13166.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.5
10°-20°	458.4	3.5
20°-30°	726.2	5.5
30°-40°	1252.3	9.5
40°-50°	2114.7	16.1
50°-60°	3107.2	23.6
60°-70°	3683.7	28.0
70°-80°	1570.9	11.9
80°-90°	49.3	0.4
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°	13166.5	100.0
0°-180°	13166.5	100.0



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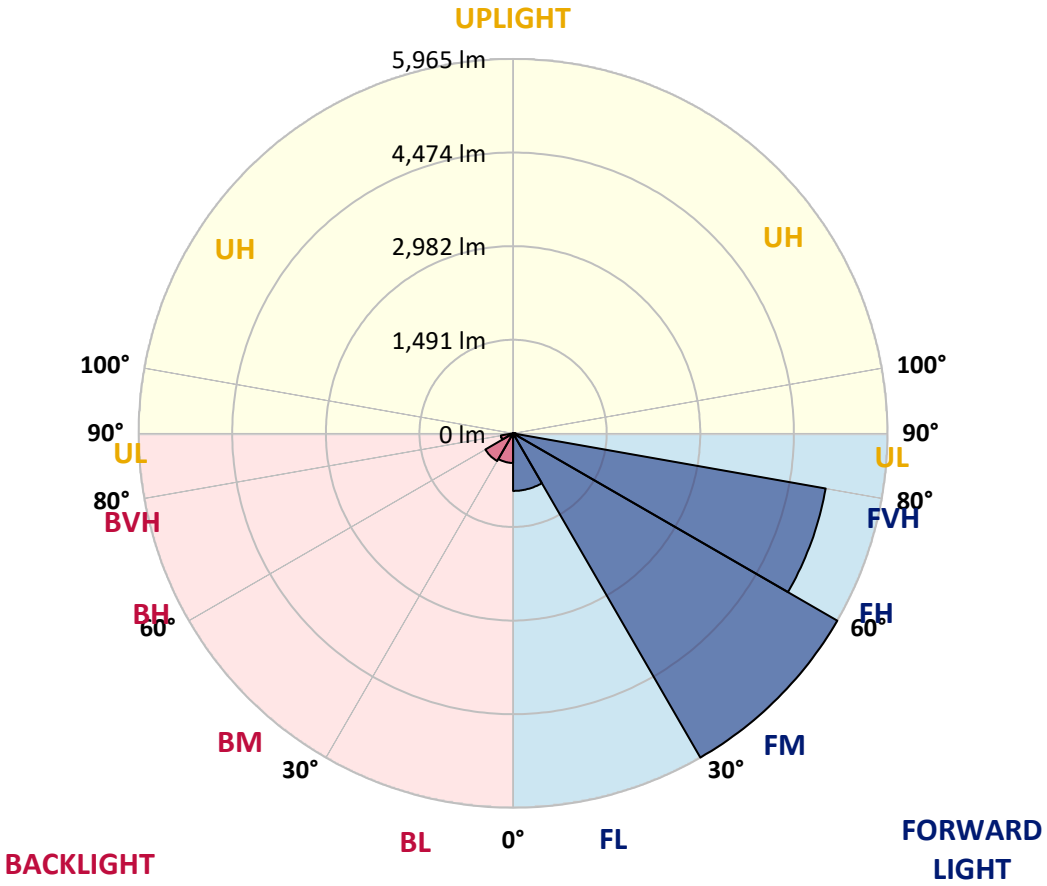
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	917.5	7.0			
FM	(30°-60°)	5964.8	45.3			
FH	(60°-80°)	5057.3	38.4			G3/7500
FVH	(80°-90°)	44.3	0.3			G1/100
BL	(0°-30°)	471.0	3.6	B1/500		
BM	(30°-60°)	509.4	3.9	B1/1000		
BH	(60°-80°)	197.2	1.5	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G3
Type III Medium



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REPORT NUMBER: P641967
CATALOG NUMBER: GWS-SA6B-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1
2.5°	2210.1	2206.5	2208.9	2227.0	2260.7	2276.4	2302.9	2307.7	2329.4	2357.2	2368.0
5°	2066.6	2054.5	2060.6	2085.9	2124.5	2167.9	2217.3	2230.6	2284.8	2346.3	2392.1
7.5°	1935.2	1921.9	1936.4	1976.2	2030.4	2077.4	2151.0	2159.4	2246.2	2354.8	2438.0
10°	1729.0	1732.6	1761.5	1831.5	1914.7	2012.3	2111.2	2123.3	2230.6	2382.5	2511.5
12.5°	1571.0	1562.6	1594.0	1673.5	1790.5	1932.8	2081.1	2096.7	2231.8	2424.7	2605.5
15°	1497.5	1495.1	1508.3	1566.2	1679.6	1847.2	2053.3	2073.8	2247.5	2463.3	2694.8
17.5°	1499.9	1496.3	1495.1	1528.8	1613.2	1783.3	2023.2	2049.7	2260.7	2505.5	2788.8
20°	1604.8	1587.9	1557.8	1542.1	1592.7	1742.3	2002.7	2032.8	2280.0	2550.1	2888.9
22.5°	1824.2	1830.3	1749.5	1665.1	1641.0	1747.1	2000.3	2035.2	2322.2	2620.0	3011.9
25°	2263.1	2253.5	2104.0	1914.7	1783.3	1802.5	2042.5	2084.7	2405.4	2720.1	3127.6
27.5°	2812.9	2821.4	2616.4	2315.0	2040.1	1917.1	2119.6	2161.8	2501.9	2782.8	3204.8
30°	3412.2	3403.7	3184.3	2850.3	2404.2	2107.6	2196.8	2234.2	2550.1	2816.5	3284.4
32.5°	3978.9	3959.6	3742.5	3392.9	2868.4	2407.8	2302.9	2324.6	2614.0	2890.1	3391.7
35°	4462.4	4461.1	4271.8	3899.3	3345.9	2784.0	2485.0	2503.1	2733.4	3007.1	3549.6
37.5°	4961.5	4944.6	4732.4	4392.4	3836.6	3196.3	2763.5	2756.3	2921.4	3179.5	3743.7
40°	5371.5	5360.6	5197.8	4871.1	4346.6	3652.1	3101.1	3079.4	3144.5	3418.2	4013.8
42.5°	5675.3	5676.5	5625.9	5426.9	4886.8	4179.0	3525.5	3491.8	3490.5	3778.7	4370.7
45°	5905.6	5921.3	5997.2	5967.1	5524.6	4792.7	4069.3	4034.3	3975.2	4246.5	4779.5
47.5°	6012.9	6033.4	6262.5	6383.1	6082.8	5401.6	4716.8	4643.2	4527.5	4868.7	5236.4
50°	6002.0	6038.2	6357.7	6724.3	6589.2	6018.9	5422.1	5387.1	5197.8	5527.0	5688.6
52.5°	5756.1	5833.2	6363.8	6931.7	6978.7	6588.0	6151.6	6086.4	5994.8	6214.3	6113.0
55°	5088.1	5182.2	6109.4	6998.0	7282.5	7084.8	6865.3	6812.3	6660.4	6862.9	6483.1
57.5°	4725.2	4806.0	5574.0	6965.4	7540.5	7544.2	7500.8	7457.3	7332.0	7504.4	6917.2
60°	4507.0	4587.7	5288.3	6846.0	7774.4	8028.9	8097.6	8092.8	7911.9	8233.8	7426.0
62.5°	4187.4	4298.4	4990.5	6536.2	7940.8	8506.3	8713.7	8681.1	8479.8	8993.4	7930.0
65°	3542.4	3638.8	4380.4	6025.0	7843.2	8901.8	9381.7	9398.5	9165.8	9708.4	8327.9
67.5°	2483.8	2554.9	3291.6	4951.9	7180.0	9032.0	10065.3	10064.1	9667.4	10075.0	8151.8
70°	1439.6	1537.3	1944.8	3061.3	5586.1	8440.0	10167.8	10202.8	9463.7	9309.3	6746.0
72.5°	557.0	637.8	1102.0	1626.5	2913.0	6465.0	8746.3	8848.7	7920.3	7181.2	4695.1
75°	166.4	185.7	518.5	865.7	1169.5	3122.8	5921.3	5950.2	5433.0	4479.2	2406.6
77.5°	124.2	137.5	226.7	437.7	409.9	946.5	3063.7	3345.9	2884.1	1600.0	663.1
80°	84.4	100.1	161.6	213.4	151.9	252.0	860.9	945.3	880.2	359.3	166.4
82.5°	37.4	48.2	114.5	107.3	55.5	72.3	265.3	282.1	182.1	108.5	57.9
85°	3.6	4.8	43.4	47.0	20.5	16.9	55.5	55.5	39.8	37.4	24.1
87.5°	0.0	0.0	1.2	2.4	2.4	3.6	4.8	6.0	7.2	9.6	12.1
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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REPORT NUMBER: P641967
CATALOG NUMBER: GWS-SA6B-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1	2374.1
2.5°	2395.8	2381.3	2399.4	2413.8	2417.5	2390.9	2375.3	2352.3	2347.5	2348.7	2342.7
5°	2428.3	2421.1	2434.3	2418.7	2377.7	2300.5	2234.2	2160.6	2120.9	2097.9	2095.5
7.5°	2488.6	2485.0	2470.5	2399.4	2271.6	2100.4	1935.2	1773.6	1673.5	1637.4	1631.3
10°	2577.8	2570.6	2511.5	2342.7	2070.2	1741.1	1463.7	1232.2	1091.2	1050.2	999.5
12.5°	2680.3	2665.8	2536.8	2220.9	1766.4	1310.6	964.6	705.3	583.6	547.4	547.4
15°	2779.2	2747.8	2522.4	2019.6	1392.6	852.4	539.0	407.5	370.2	360.5	360.5
17.5°	2880.5	2820.2	2465.7	1744.7	962.2	504.0	359.3	334.0	329.2	330.4	331.6
20°	2975.7	2881.7	2365.6	1414.3	613.7	352.1	321.9	315.9	313.5	315.9	314.7
22.5°	3079.4	2938.3	2213.7	1053.8	399.1	317.1	306.3	301.4	299.0	302.6	302.6
25°	3181.9	2979.3	2012.3	709.0	317.1	295.4	289.4	284.5	282.1	283.3	283.3
27.5°	3234.9	2963.6	1748.3	452.1	284.5	273.7	267.7	261.6	258.0	256.8	258.0
30°	3271.1	2915.4	1425.2	321.9	258.0	244.8	238.7	233.9	224.3	218.2	220.6
32.5°	3327.8	2867.2	1074.3	270.1	236.3	215.8	206.2	194.1	180.9	174.8	174.8
35°	3395.3	2800.9	753.6	243.6	213.4	191.7	173.6	153.1	137.5	132.6	132.6
37.5°	3484.5	2738.2	501.6	225.5	194.1	171.2	145.9	121.8	104.9	102.5	101.3
40°	3618.4	2685.1	353.3	212.2	177.2	149.5	119.4	94.0	82.0	78.4	78.4
42.5°	3792.0	2630.9	279.7	198.9	162.8	129.0	95.3	74.8	65.1	62.7	61.5
45°	4006.6	2567.0	243.6	186.9	148.3	107.3	76.0	62.7	55.5	53.1	53.1
47.5°	4239.3	2480.2	226.7	171.2	131.4	86.8	63.9	54.3	50.6	49.4	48.2
50°	4468.4	2363.2	212.2	156.7	112.1	71.1	55.5	49.4	47.0	45.8	45.8
52.5°	4668.5	2227.0	194.1	139.9	91.6	61.5	49.4	45.8	43.4	41.0	39.8
55°	4839.7	2078.7	171.2	120.6	74.8	54.3	45.8	42.2	39.8	37.4	36.2
57.5°	5060.4	1994.3	137.5	97.7	61.5	48.2	42.2	38.6	36.2	32.6	32.6
60°	5305.1	1932.8	102.5	77.2	53.1	44.6	38.6	35.0	32.6	28.9	28.9
62.5°	5501.7	1841.1	80.8	62.7	45.8	39.8	35.0	31.3	28.9	25.3	25.3
65°	5576.4	1651.8	66.3	49.4	37.4	35.0	31.3	28.9	25.3	21.7	21.7
67.5°	5238.8	1273.2	55.5	39.8	31.3	30.1	27.7	26.5	21.7	19.3	18.1
70°	*4148.9*	*776.5*	*45.8*	*32.6*	*26.5*	*25.3*	*25.3*	*22.9*	*19.3*	*18.1*	*16.9*
72.5°	2843.1	400.3	37.4	26.5	22.9	22.9	21.7	20.5	18.1	16.9	16.9
75°	1477.0	133.8	28.9	20.5	18.1	19.3	19.3	18.1	16.9	16.9	15.7
77.5°	423.2	60.3	21.7	15.7	14.5	14.5	15.7	15.7	15.7	14.5	14.5
80°	109.7	35.0	15.7	12.1	12.1	12.1	12.1	13.3	14.5	13.3	13.3
82.5°	44.6	19.3	10.9	9.6	9.6	9.6	9.6	10.9	12.1	12.1	12.1
85°	27.7	9.6	8.4	8.4	8.4	7.2	7.2	8.4	8.4	9.6	9.6
87.5°	16.9	7.2	7.2	7.2	7.2	6.0	6.0	6.0	6.0	6.0	6.0
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

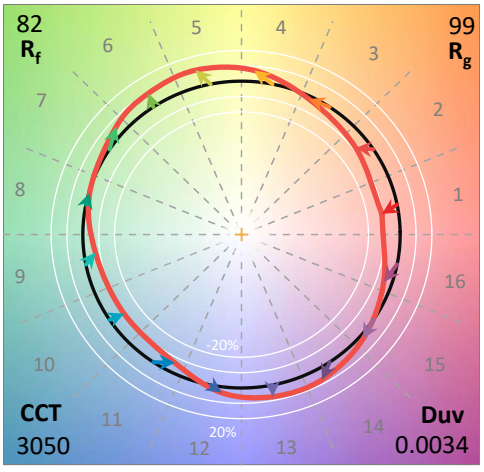
Test Information

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

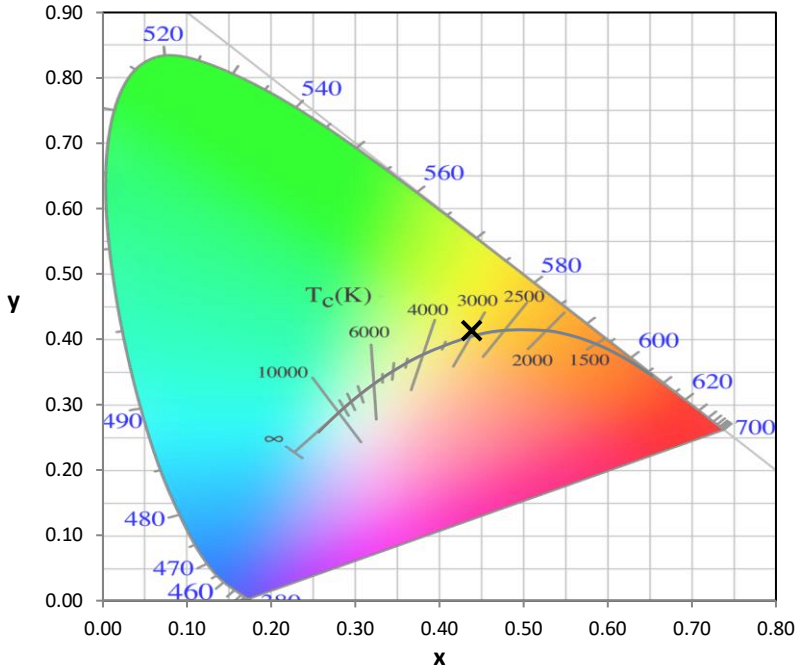
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

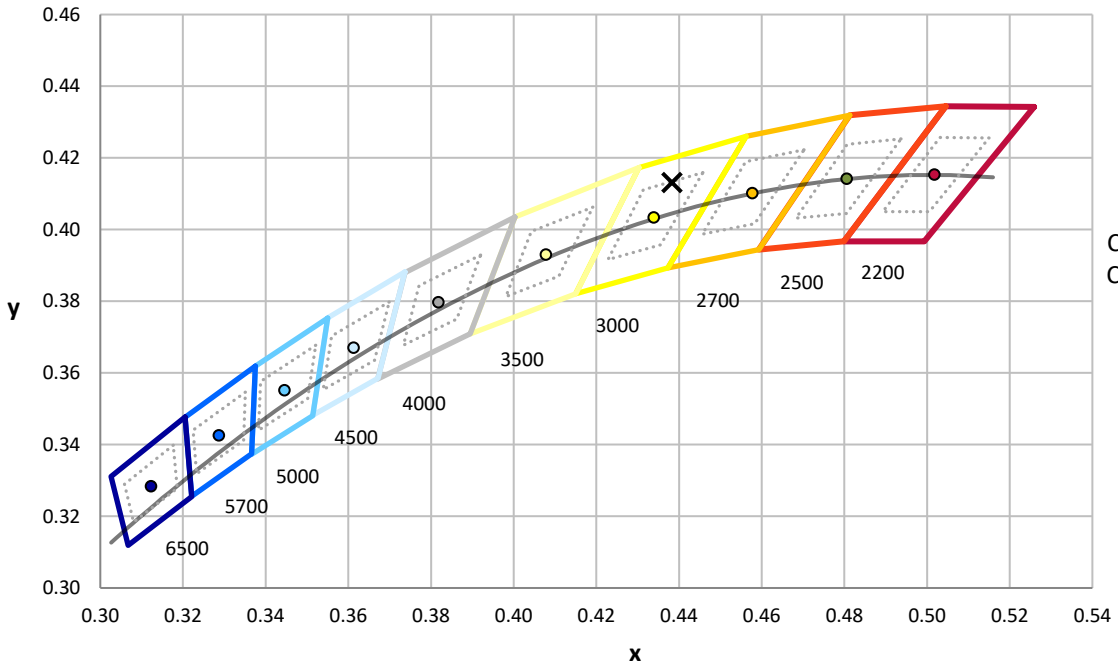
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

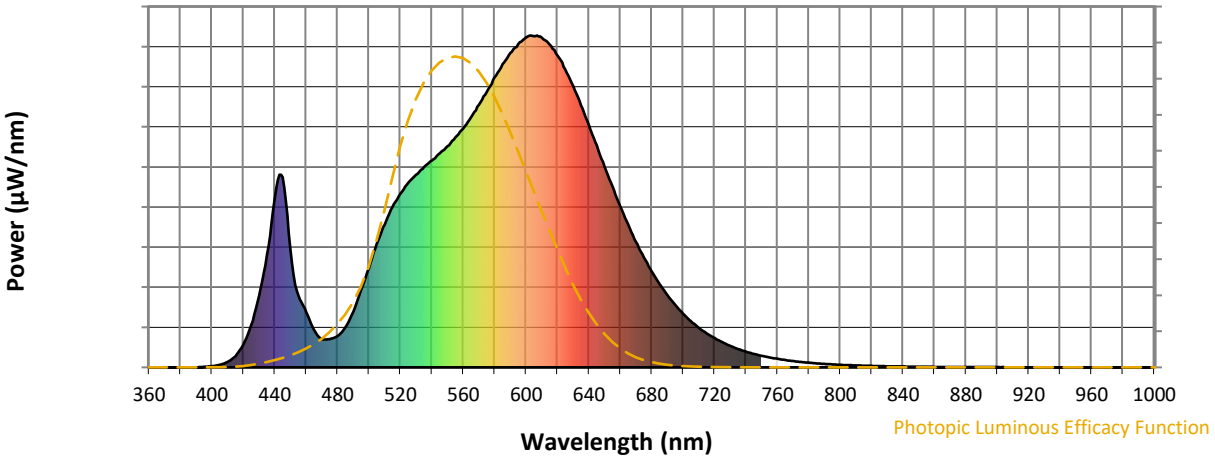


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

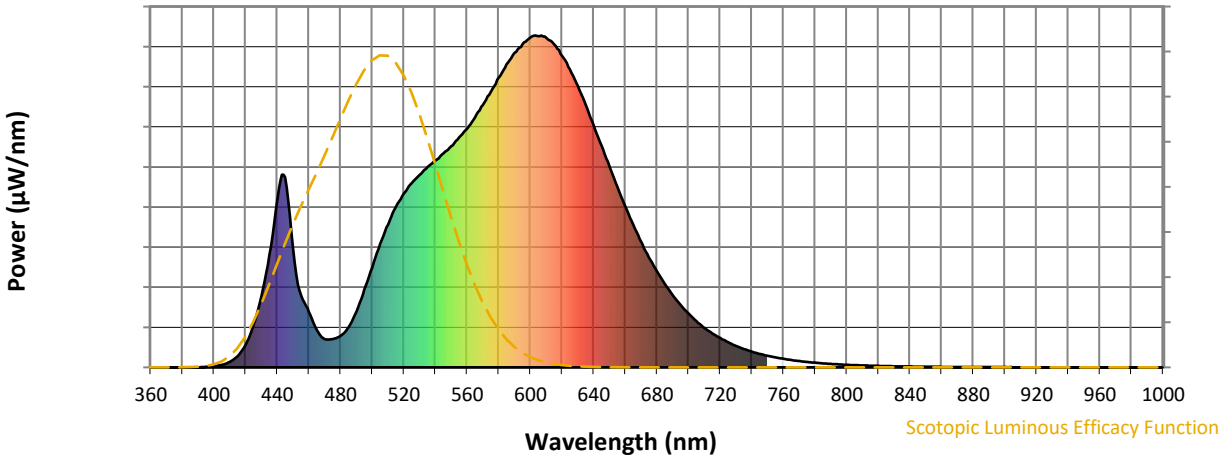


Photopic Lumens: NR

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

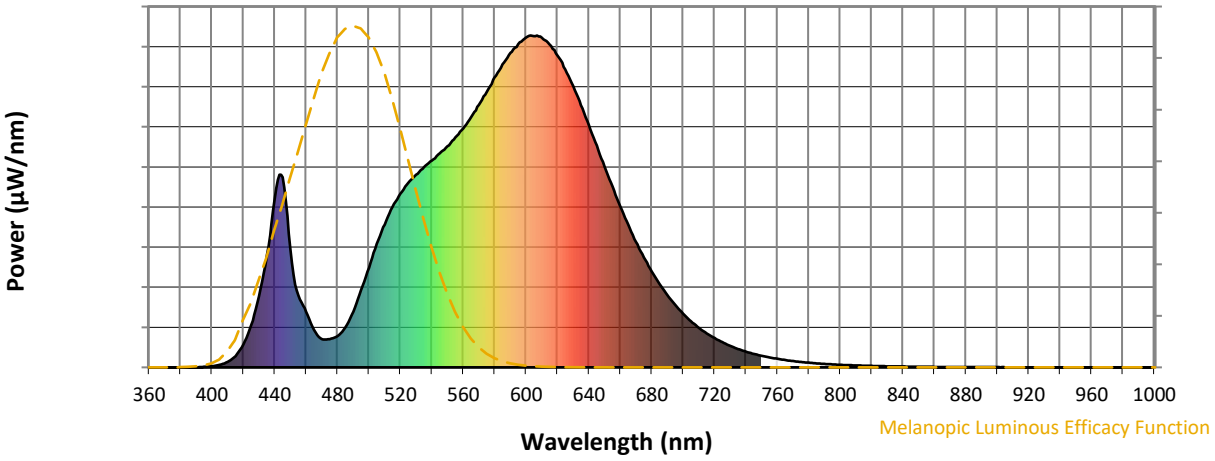


Scotopic Lumens: NR **S/P: 1.27**

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			

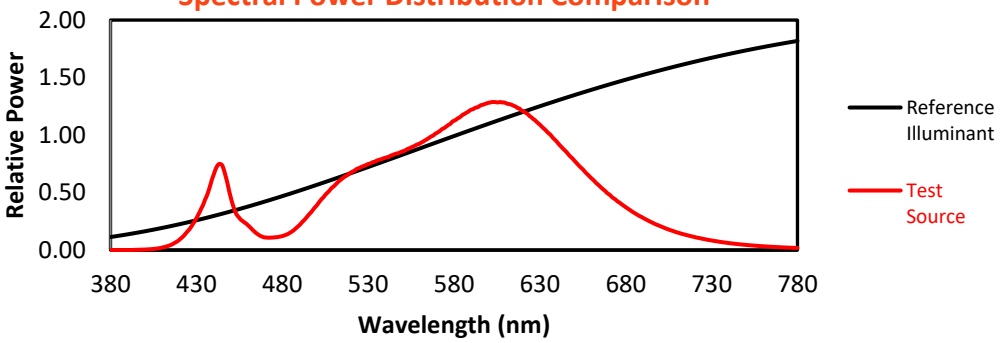
REPORT NUMBER: SP1-2408-195-9

TM-30-18

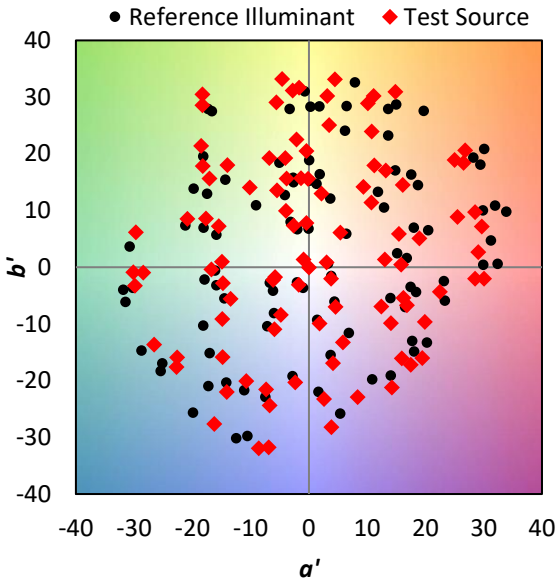
Summary

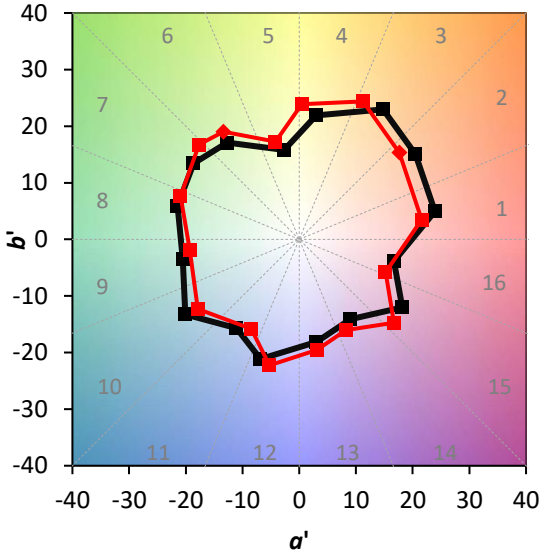
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

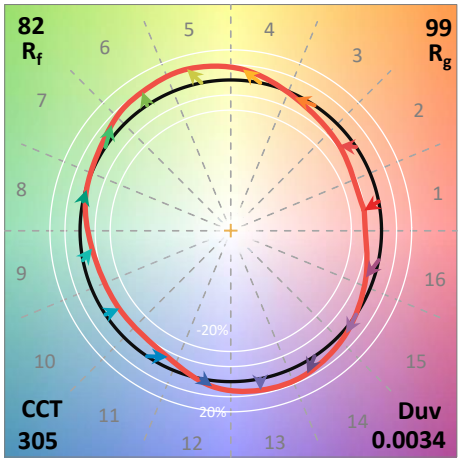
Spectral Power Distribution Comparison

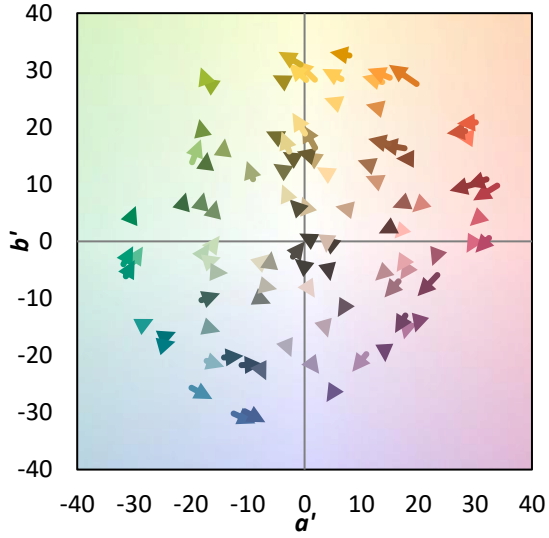


Color Vector Graphics







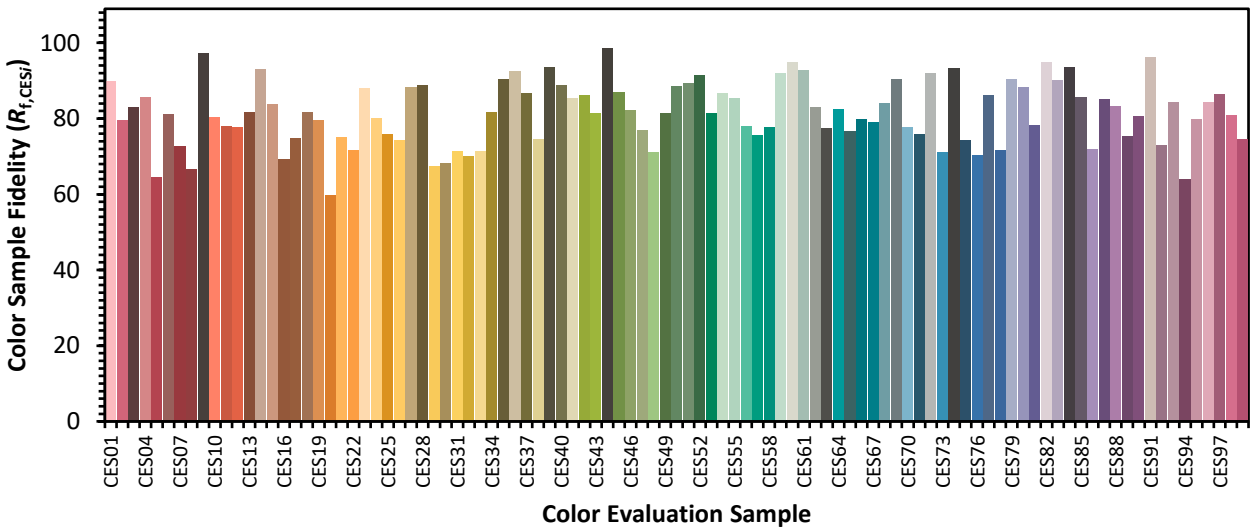


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

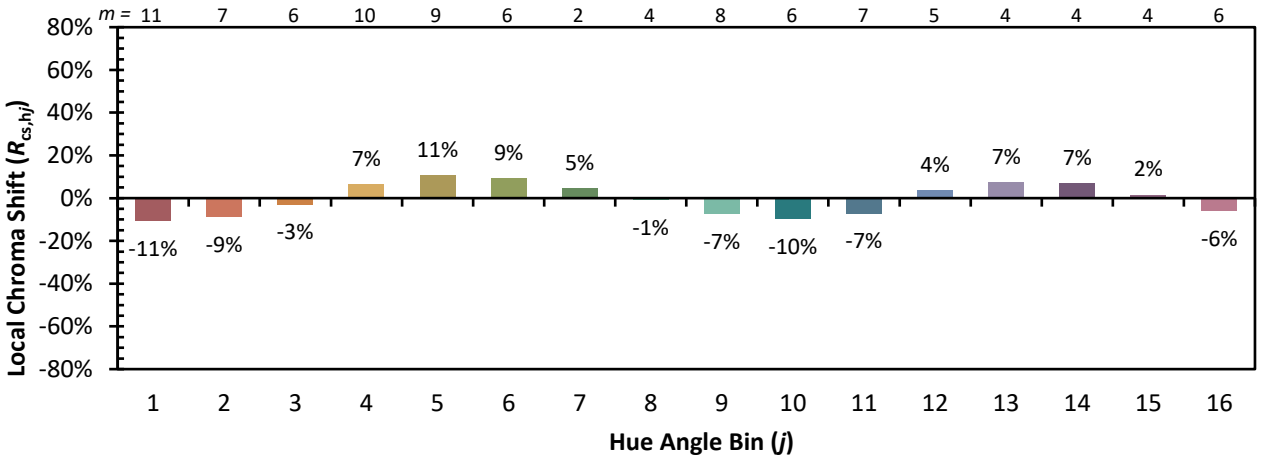
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

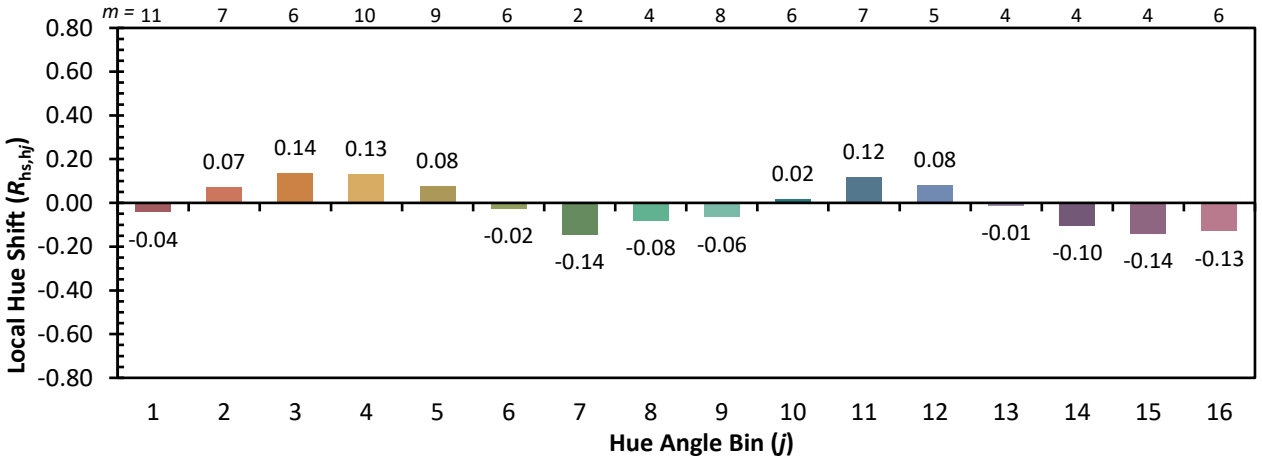


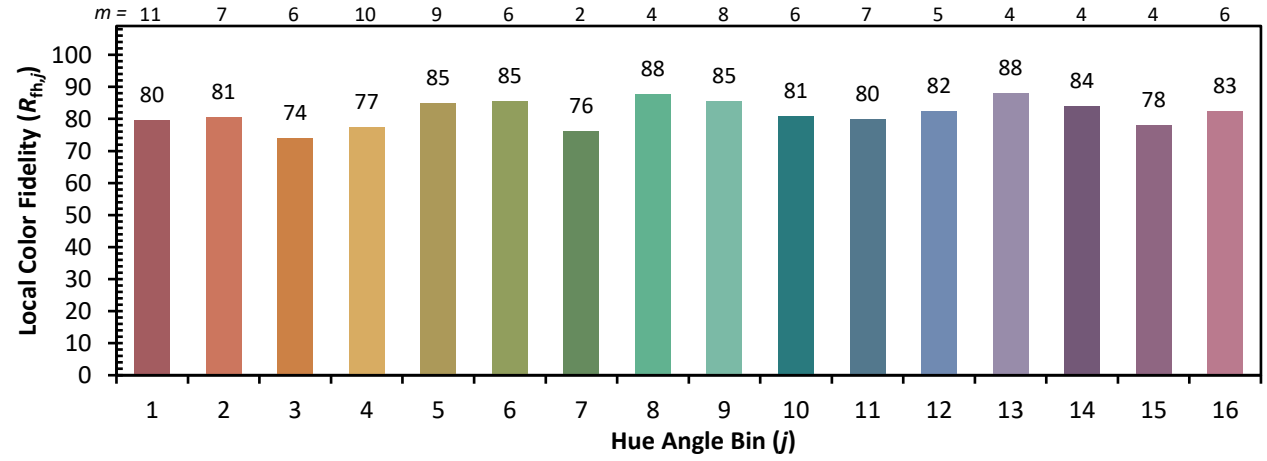
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



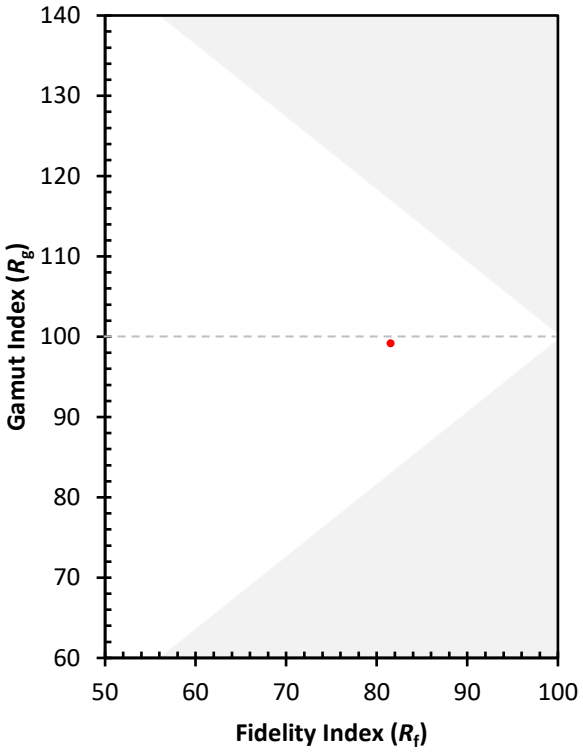


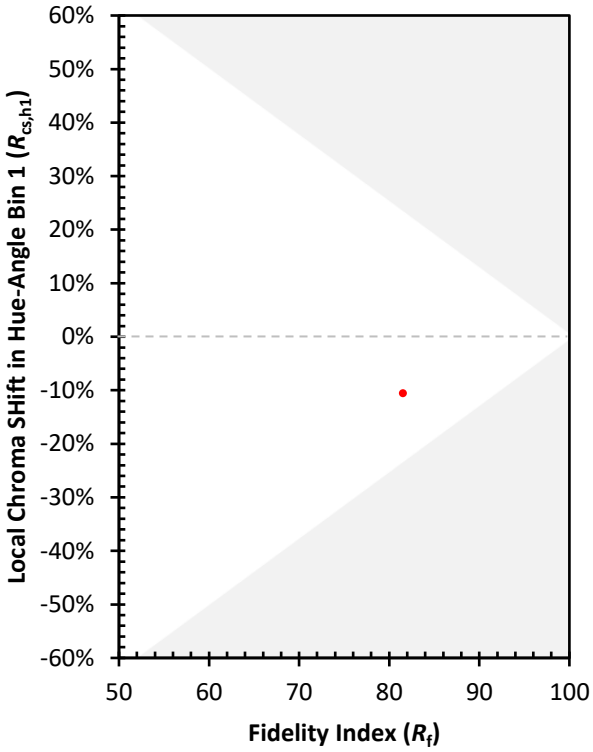


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)