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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P323997

Luminaire Tested: **GLEON-SA3B-830-U-SL4-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P323997
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3B-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11253 lumens
Efficiency:	N/A
Efficacy:	90.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	124
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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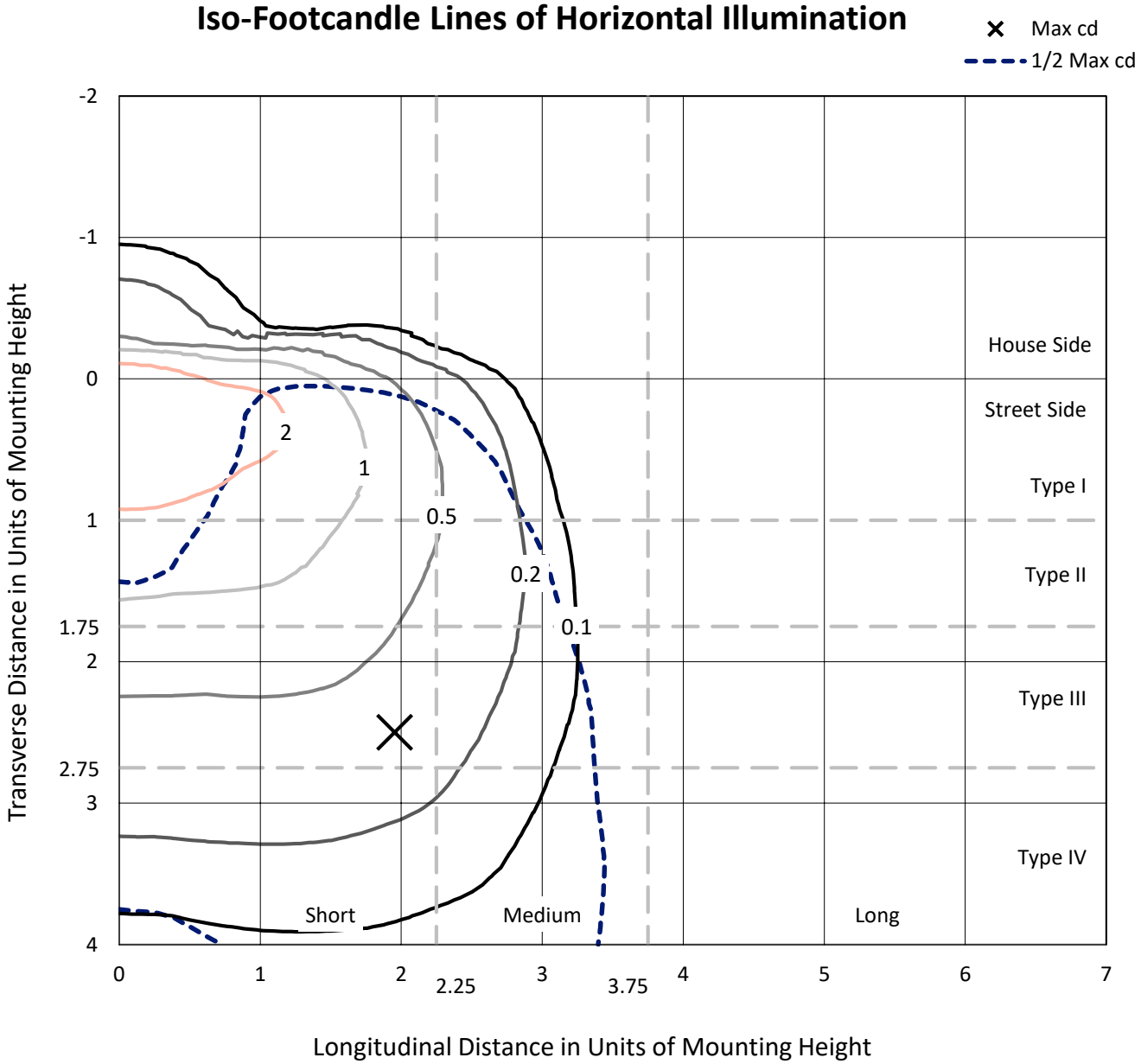
REPORT NUMBER: P323997
CATALOG NUMBER: GLEON-SA3B-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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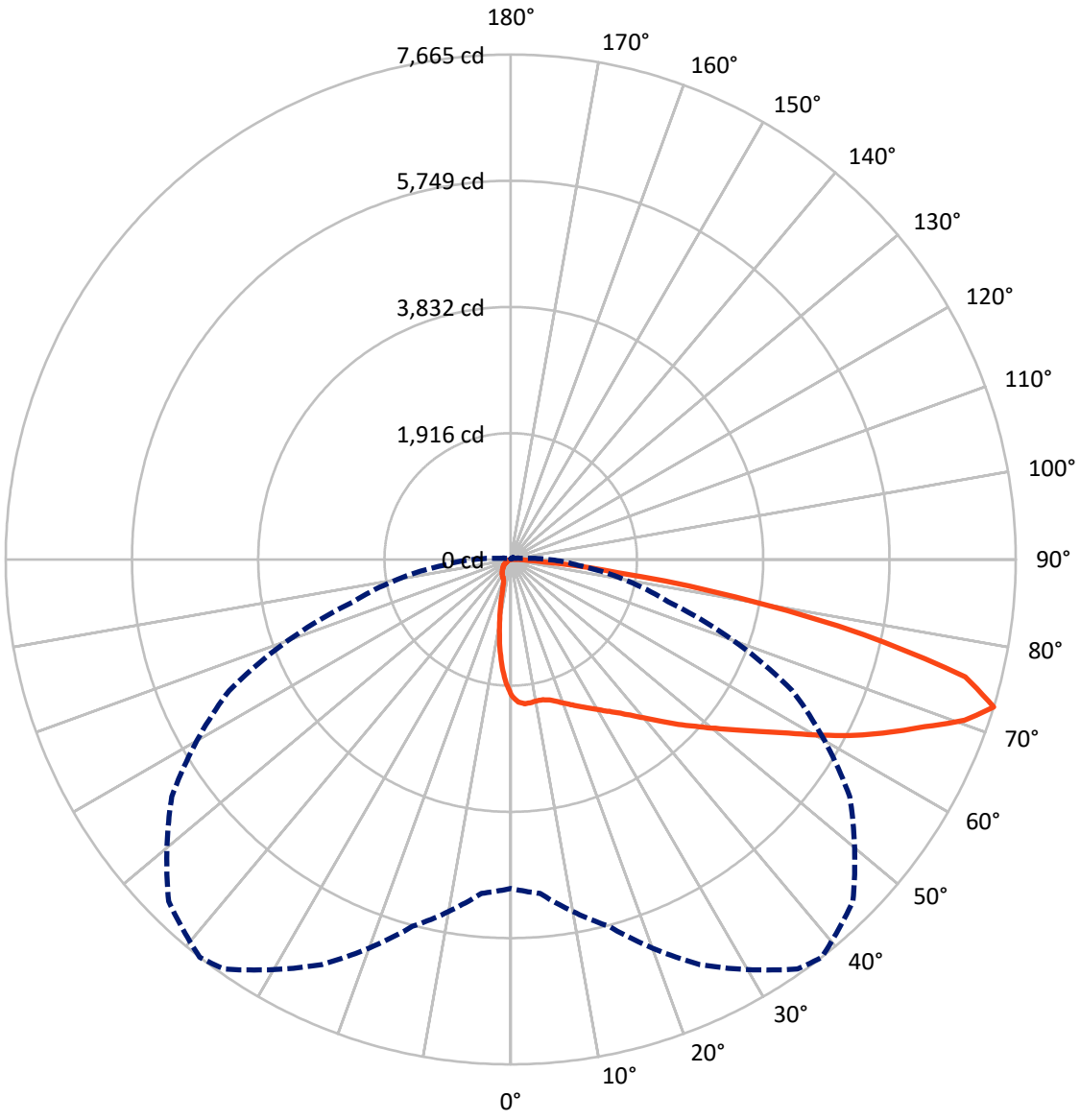
Luminous Intensity Polar Plot



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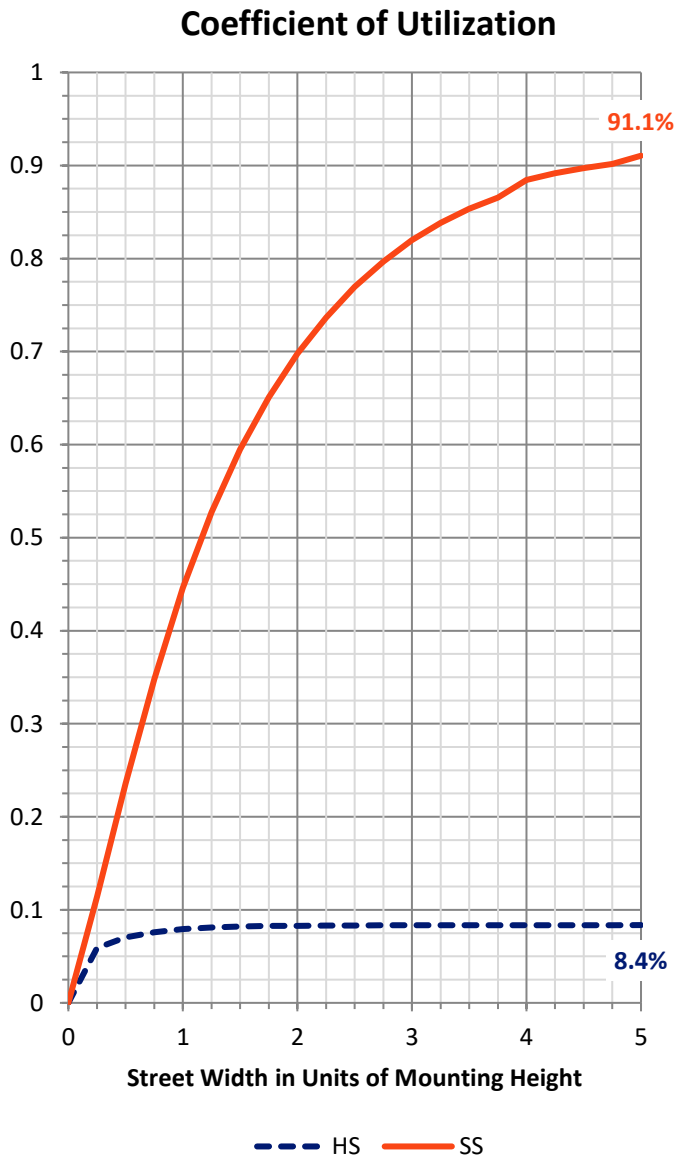
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	947.0	0.0	947.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10306.0	0.0	10306.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	11253.0	0.0	11253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.6
10°-20°	431.2	3.8
20°-30°	685.8	6.1
30°-40°	1031.1	9.2
40°-50°	1573.0	14.0
50°-60°	2223.2	19.8
60°-70°	2788.6	24.8
70°-80°	2085.1	18.5
80°-90°	258.5	2.3
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°	11253.0	100.0
0°-180°	11253.0	100.0



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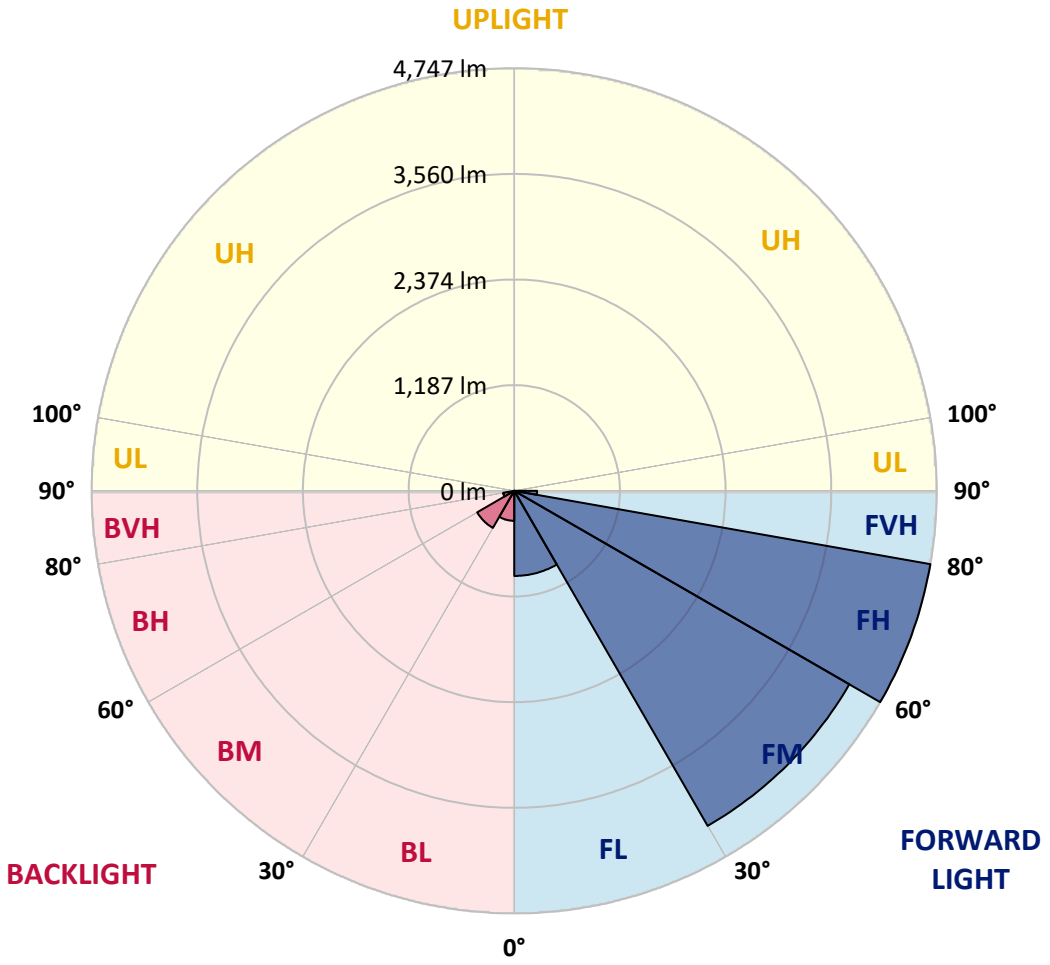
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	956.2	8.5			
FM	(30°-60°)	4346.4	38.6			
FH	(60°-80°)	4747.2	42.2			G2/5000
FVH	(80°-90°)	256.1	2.3			G3/500
BL	(0°-30°)	337.2	3.0	B1/500		
BM	(30°-60°)	480.9	4.3	B1/1000		
BH	(60°-80°)	126.5	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	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 IV Short



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Scaled Data Report

REPORT NUMBER: P323997
CATALOG NUMBER: GLEON-SA3B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4
2.5°	2196.5	2197.0	2191.8	2183.4	2172.7	2167.1	2157.7	2142.8	2126.9	2098.4	2067.5
5°	2241.4	2241.4	2234.8	2223.6	2206.3	2201.2	2183.4	2159.6	2126.9	2080.6	2028.7
7.5°	2236.7	2237.6	2228.8	2217.1	2199.8	2195.1	2173.6	2147.0	2106.3	2050.2	1983.9
10°	2212.4	2214.7	2207.7	2202.1	2186.2	2181.1	2161.0	2134.4	2093.7	2033.9	1957.7
12.5°	2187.6	2190.0	2192.3	2197.4	2187.6	2185.8	2169.9	2147.4	2108.6	2046.5	1960.5
15°	2171.7	2176.4	2193.2	2213.3	2215.7	2213.8	2203.5	2182.5	2143.2	2078.7	1980.6
17.5°	2171.7	2179.2	2214.3	2252.6	2266.1	2267.5	2258.7	2229.2	2182.5	2113.3	1999.3
20°	2190.0	2200.2	2254.9	2309.1	2331.6	2331.6	2314.3	2273.2	2218.5	2144.6	2011.9
22.5°	2236.7	2250.3	2319.0	2381.6	2405.4	2400.3	2376.9	2317.1	2255.9	2180.1	2027.8
25°	2328.8	2339.0	2410.5	2473.6	2488.1	2476.4	2447.0	2370.4	2303.5	2228.3	2056.8
27.5°	2447.5	2448.9	2522.7	2576.0	2567.1	2559.2	2522.2	2437.2	2372.2	2297.0	2106.8
30°	2577.9	2577.9	2642.8	2683.5	2656.4	2649.8	2612.9	2518.0	2460.1	2390.5	2177.8
32.5°	2704.0	2709.6	2762.5	2788.2	2757.8	2751.2	2715.3	2620.4	2576.9	2533.0	2288.6
35°	2826.0	2830.2	2880.2	2894.2	2865.3	2867.1	2841.4	2761.1	2744.7	2739.1	2455.4
37.5°	2944.3	2945.2	2996.1	3005.0	2990.5	3006.4	3008.7	2937.7	2968.1	3013.4	2690.5
40°	3052.2	3053.1	3103.6	3126.5	3151.3	3171.8	3190.1	3152.2	3252.7	3357.9	2970.4
42.5°	3138.7	3148.5	3212.5	3256.0	3321.4	3360.7	3410.2	3408.3	3591.5	3749.5	3308.8
45°	3214.8	3231.7	3320.9	3397.1	3509.3	3571.9	3649.5	3710.2	3972.9	4185.5	3651.3
47.5°	3315.3	3331.2	3433.1	3557.9	3707.4	3789.7	3918.2	4049.5	4392.1	4613.6	3986.0
50°	3456.9	3449.9	3550.4	3729.4	3921.5	4029.4	4212.6	4409.4	4808.0	4986.5	4182.7
52.5°	3607.9	3605.1	3679.4	3915.9	4173.8	4300.0	4542.1	4781.4	5205.7	5243.6	4272.9
55°	3794.8	3774.7	3837.3	4128.5	4473.4	4608.9	4894.0	5149.6	5522.6	5388.5	4318.2
57.5°	3990.6	3957.5	4017.3	4365.4	4811.3	4971.6	5283.8	5508.6	5733.3	5487.5	4317.8
60°	4193.0	4153.7	4224.8	4661.7	5231.0	5416.5	5706.2	5751.1	5930.1	5537.5	4286.0
62.5°	4362.2	4338.8	4444.4	4978.6	5699.7	5882.0	6025.4	5971.7	6096.0	5576.3	4211.7
65°	4541.2	4542.6	4713.1	5348.3	6197.9	6320.8	6332.9	6257.7	6234.8	5568.4	3960.3
67.5°	4783.2	4805.7	5090.3	5850.2	6682.5	6777.4	6776.5	6567.6	6336.2	5252.5	3402.7
70°	5039.3	5092.2	5524.9	6424.5	7211.6	7307.8	7258.3	6764.8	5966.1	4247.2	2408.2
72.5°	4996.4	5088.0	5766.5	6786.7	7591.5	7664.9	7342.9	6280.1	4715.5	2468.5	1025.3
75°	3854.6	3960.7	5287.5	6427.8	7192.9	7127.0	6309.1	4887.0	2576.9	688.9	230.9
77.5°	2036.2	2092.8	3492.9	4896.8	5608.6	5470.7	4444.4	2711.0	785.6	170.6	103.7
80°	1066.5	1079.6	1522.1	2778.3	3461.6	3462.5	2633.9	1190.8	323.9	87.4	69.6
82.5°	571.1	582.3	804.3	1283.8	1813.8	1644.1	1008.5	655.2	188.3	49.5	66.8
85°	137.4	139.7	456.1	586.5	713.2	509.4	299.6	550.1	50.9	29.0	54.2
87.5°	52.8	53.7	169.2	253.8	181.8	117.8	140.2	205.2	6.5	11.2	8.4
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: P323997
CATALOG NUMBER: GLEON-SA3B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4
2.5°	2048.8	2036.7	2006.8	1968.9	1935.3	1911.0	1874.5	1850.7	1834.8	1834.3	1828.2
5°	1997.0	1972.2	1907.7	1831.0	1761.4	1698.8	1624.9	1566.5	1523.1	1516.1	1501.1
7.5°	1941.3	1900.7	1801.6	1682.0	1565.1	1446.4	1308.6	1223.0	1149.7	1114.6	1110.9
10°	1907.2	1850.2	1709.5	1536.6	1353.4	1160.4	980.0	855.2	765.0	739.3	720.2
12.5°	1900.2	1825.0	1638.5	1400.2	1138.4	883.3	683.7	551.0	479.0	456.1	450.1
15°	1907.2	1813.3	1578.7	1265.1	920.7	626.7	458.9	381.8	354.7	348.2	347.7
17.5°	1911.4	1799.3	1510.9	1115.1	709.4	447.7	351.4	329.0	324.8	324.3	325.3
20°	1911.0	1777.8	1430.1	947.8	527.6	351.9	317.8	313.1	312.2	312.7	312.2
22.5°	1907.7	1752.5	1341.3	775.3	398.6	314.5	303.3	300.5	300.0	300.0	300.0
25°	1913.8	1732.4	1243.6	610.3	328.5	297.2	290.2	287.9	287.4	287.4	286.5
27.5°	1935.7	1721.2	1136.6	469.7	296.8	281.8	276.2	275.7	274.3	273.9	274.8
30°	1971.2	1721.2	1019.3	365.5	277.6	265.9	261.7	260.8	260.3	259.8	260.3
32.5°	2033.9	1734.3	891.2	303.8	259.4	248.2	245.4	246.8	245.4	245.4	245.4
35°	2147.0	1773.6	757.1	265.0	240.2	230.9	228.1	229.9	229.0	229.0	228.5
37.5°	2311.9	1846.5	622.0	241.6	223.4	213.6	209.8	212.6	211.7	211.7	211.2
40°	2512.9	1952.6	493.5	223.9	207.0	196.8	193.5	194.9	192.5	192.5	193.5
42.5°	2761.1	2087.1	381.4	206.6	190.7	180.9	179.0	177.6	173.4	171.0	171.5
45°	3036.8	2227.4	297.2	189.7	175.3	167.3	164.5	160.8	153.8	149.1	149.5
47.5°	3283.1	2335.3	241.6	173.4	161.2	155.2	151.0	143.9	133.7	128.1	128.5
50°	3412.5	2351.7	205.6	157.0	148.1	142.1	136.0	125.2	113.1	107.0	106.6
52.5°	3445.7	2275.0	179.0	142.1	135.1	128.1	120.1	105.6	92.1	85.5	84.6
55°	3457.9	2158.2	155.2	128.1	121.0	113.1	102.8	86.5	73.8	67.3	66.8
57.5°	3417.7	1983.9	136.5	115.4	107.0	97.2	84.6	69.2	57.0	51.9	51.9
60°	3328.4	1747.9	122.0	101.9	92.5	81.3	68.2	53.7	42.5	38.3	38.3
62.5°	3150.4	1442.2	108.4	87.9	79.0	67.3	55.1	40.7	29.9	27.6	28.0
65°	2814.3	1094.0	94.9	75.2	67.3	55.6	43.0	29.0	20.1	20.1	21.0
67.5°	2295.1	759.9	80.9	64.0	58.0	45.3	32.7	20.1	14.0	15.9	17.8
70°	1519.3	426.2	69.2	52.8	49.5	36.0	24.3	13.6	11.2	15.0	18.2
72.5°	*573.4*	*165.9*	*58.0*	*42.5*	*43.0*	*27.6*	*17.3*	*10.3*	*10.3*	*16.4*	*21.5*
75°	159.8	81.3	41.6	31.3	33.6	20.1	12.6	8.9	9.8	18.7	25.2
77.5°	93.9	59.8	27.1	18.2	22.9	14.0	8.4	7.0	8.4	15.9	24.3
80°	75.7	31.8	15.9	9.3	12.6	7.9	5.6	4.2	2.3	6.1	12.6
82.5°	75.7	19.2	7.5	6.5	6.5	4.2	2.8	1.9	0.5	0.0	3.3
85°	50.9	7.9	4.7	4.2	3.3	1.4	0.9	0.5	0.0	0.0	0.0
87.5°	8.4	3.3	1.9	0.9	0.5	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

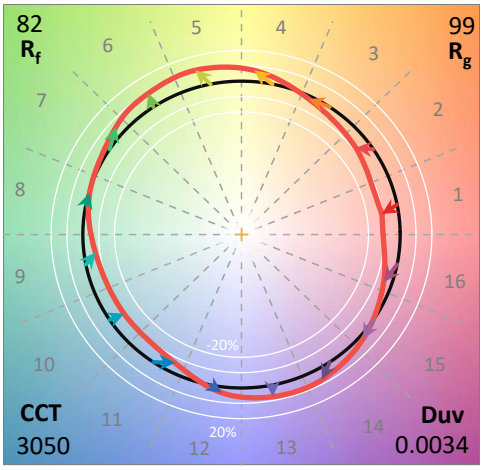
Test Information

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

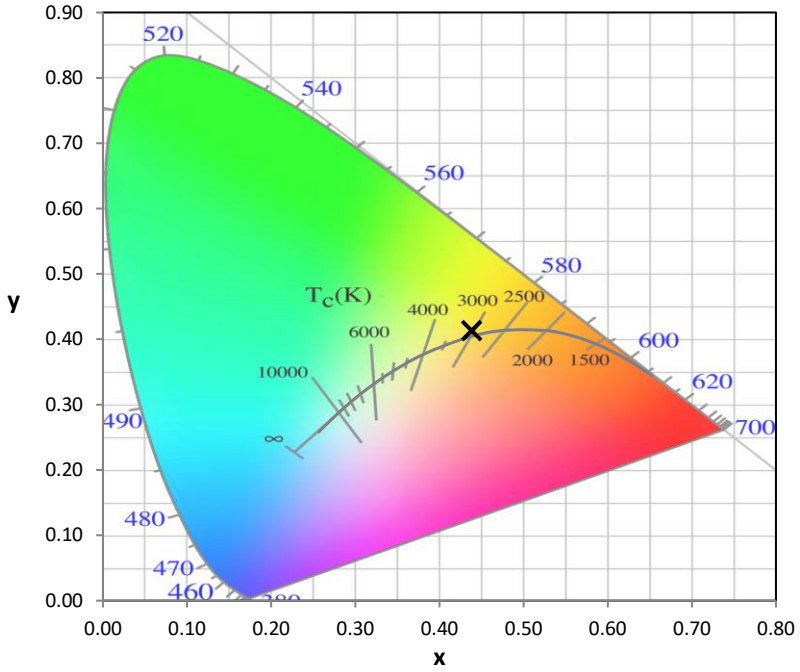
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

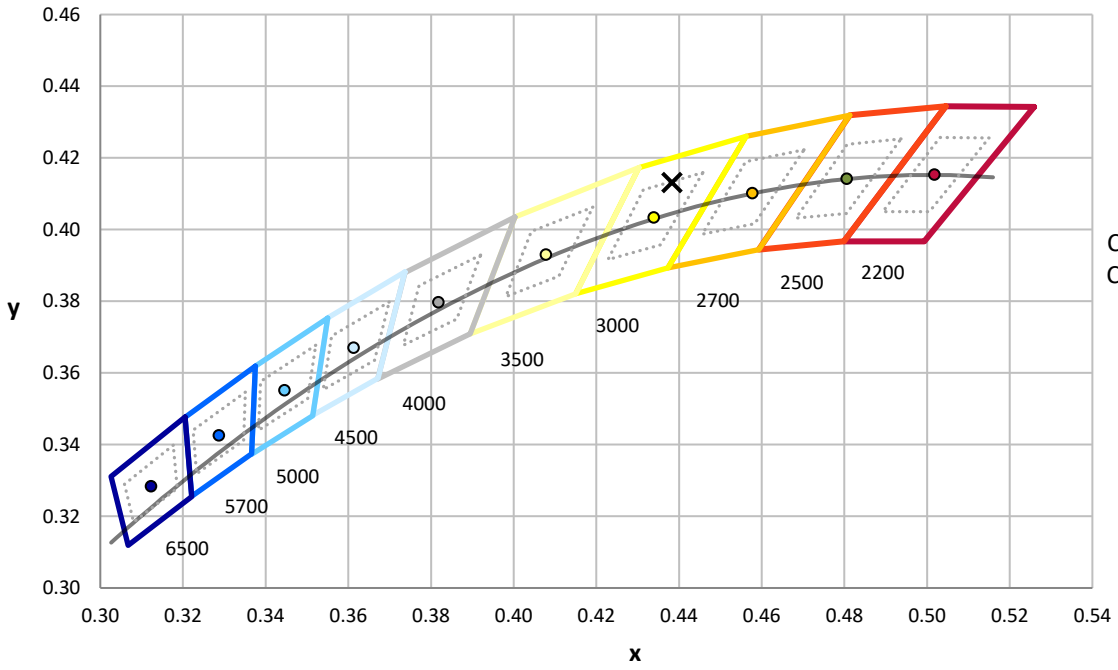
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

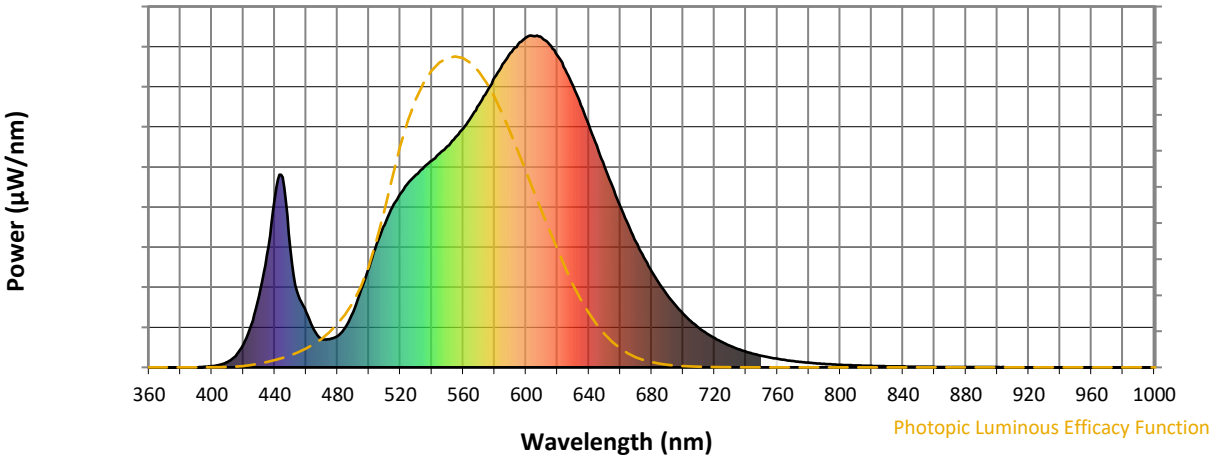


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

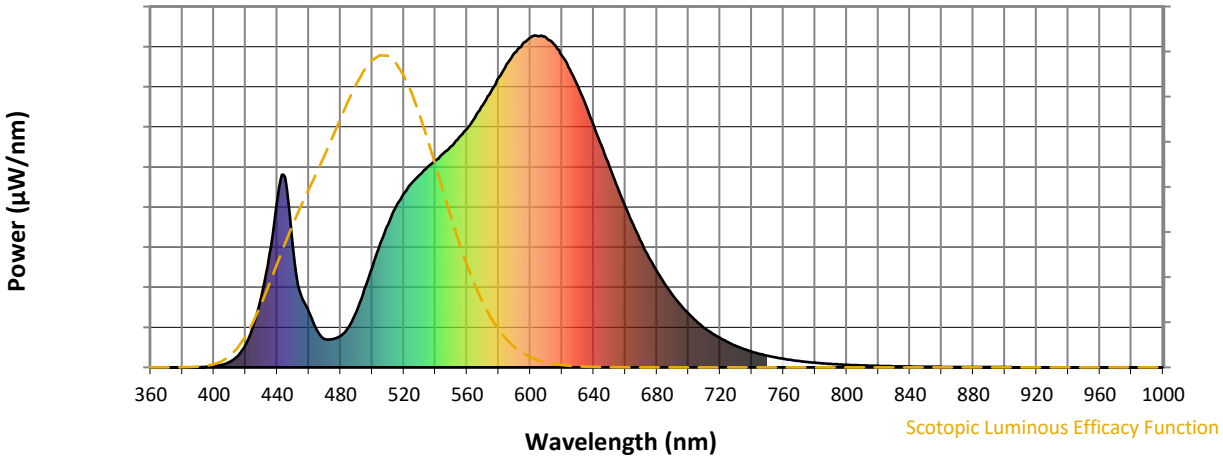


Photopic Lumens: NR

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

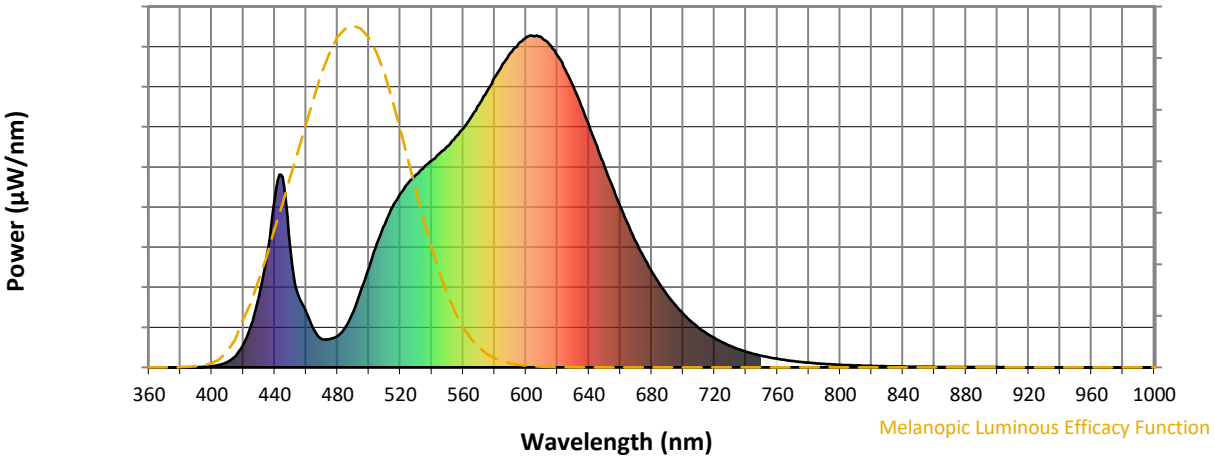


Scotopic Lumens: NR **S/P: 1.27**

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			

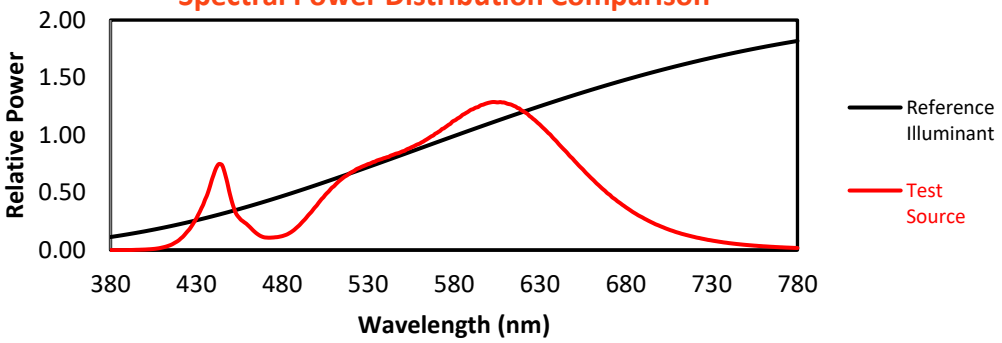
REPORT NUMBER: SP1-2408-195-9

TM-30-18

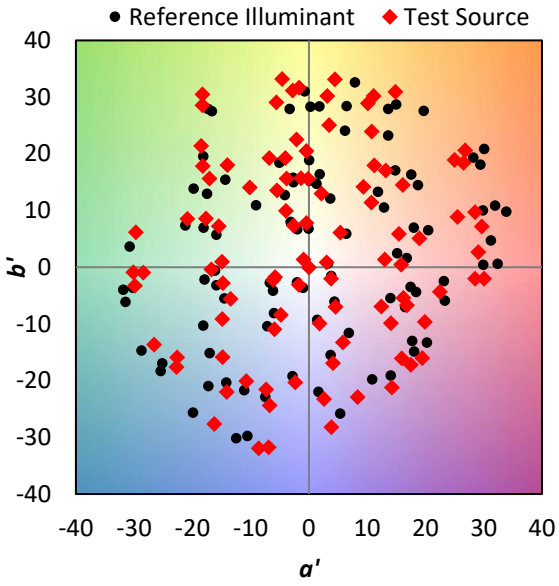
Summary

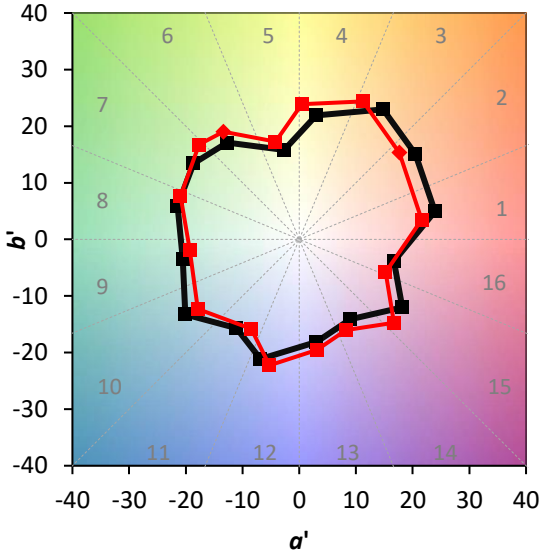
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

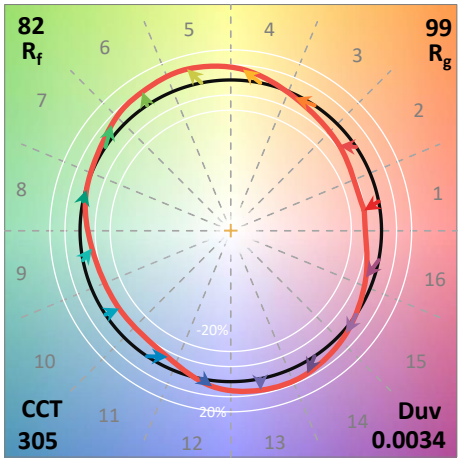
Spectral Power Distribution Comparison

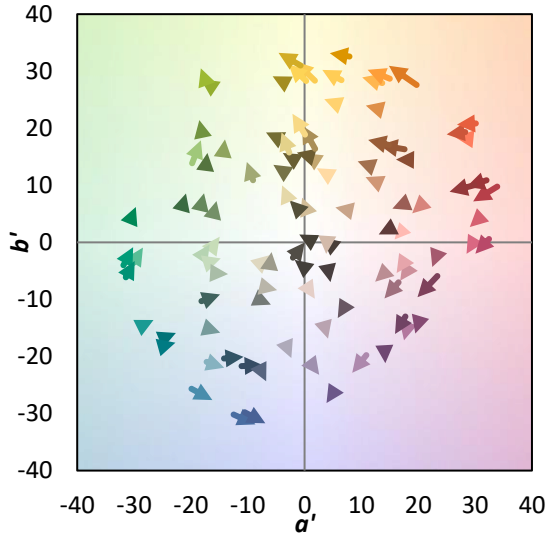


Color Vector Graphics







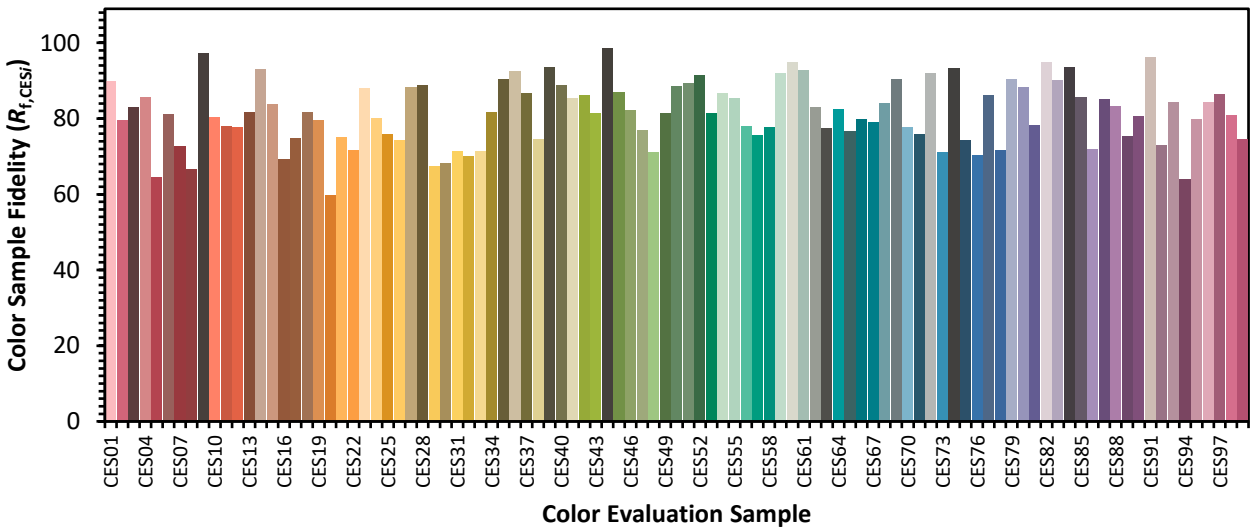


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

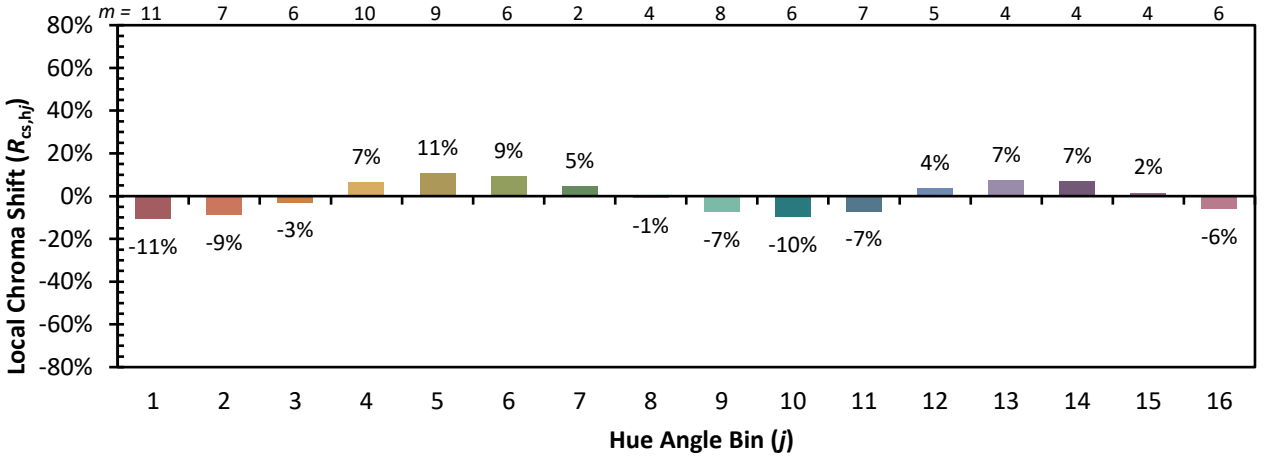
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

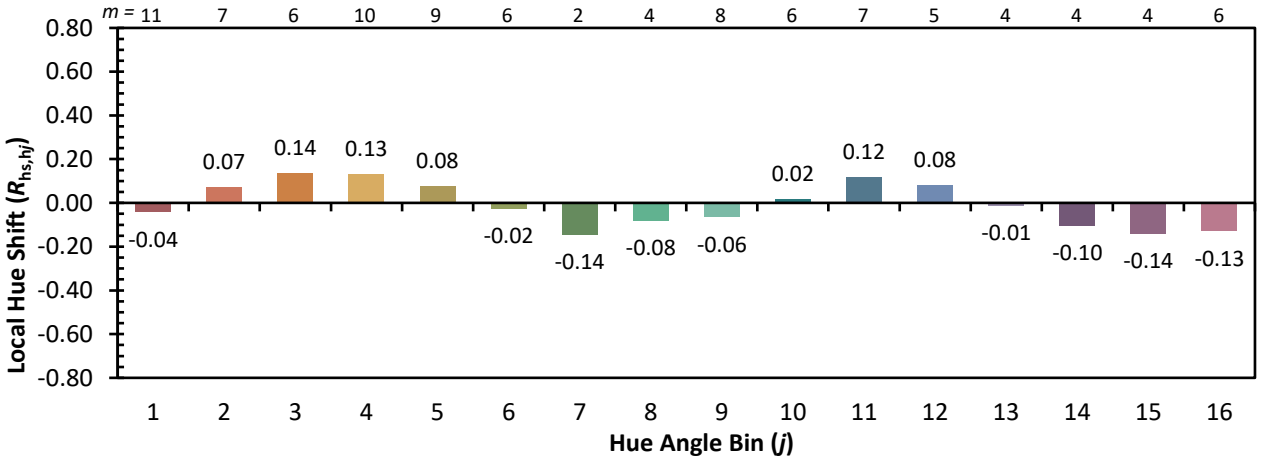


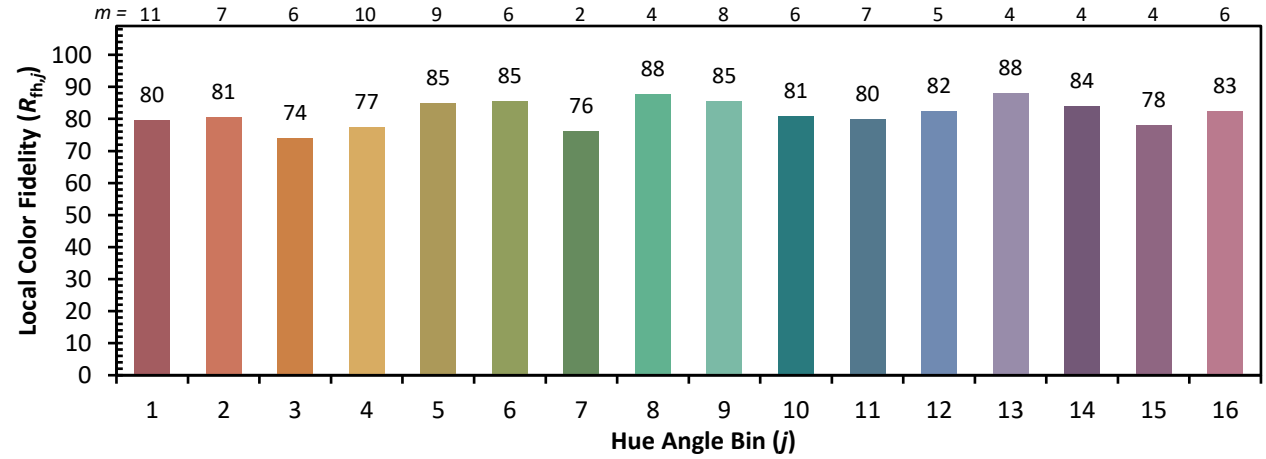
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



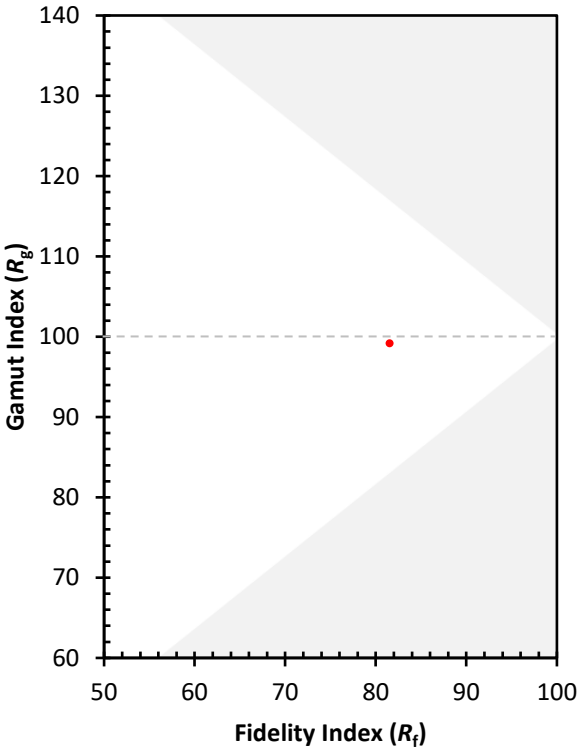


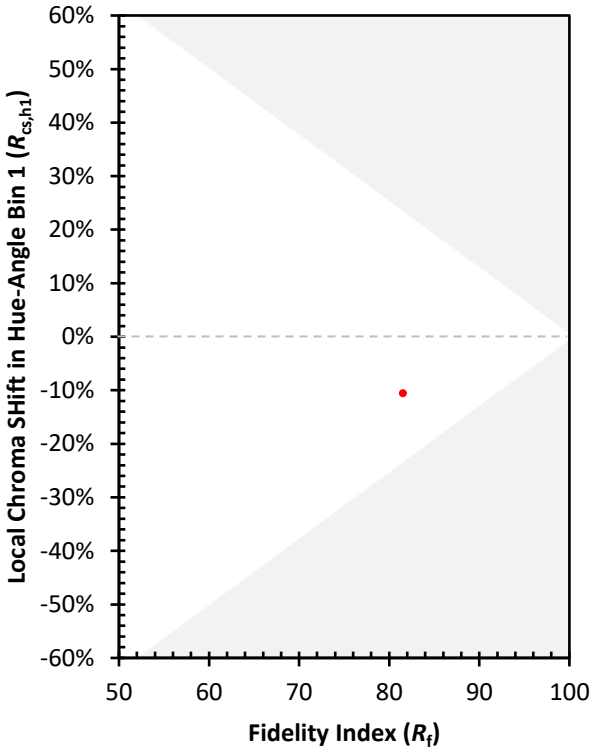


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)