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: P322399

Luminaire Tested: **GLEON-SA5B-830-U-T3-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:	P322399
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5B-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16540 lumens
Efficiency:	N/A
Efficacy:	78.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	210
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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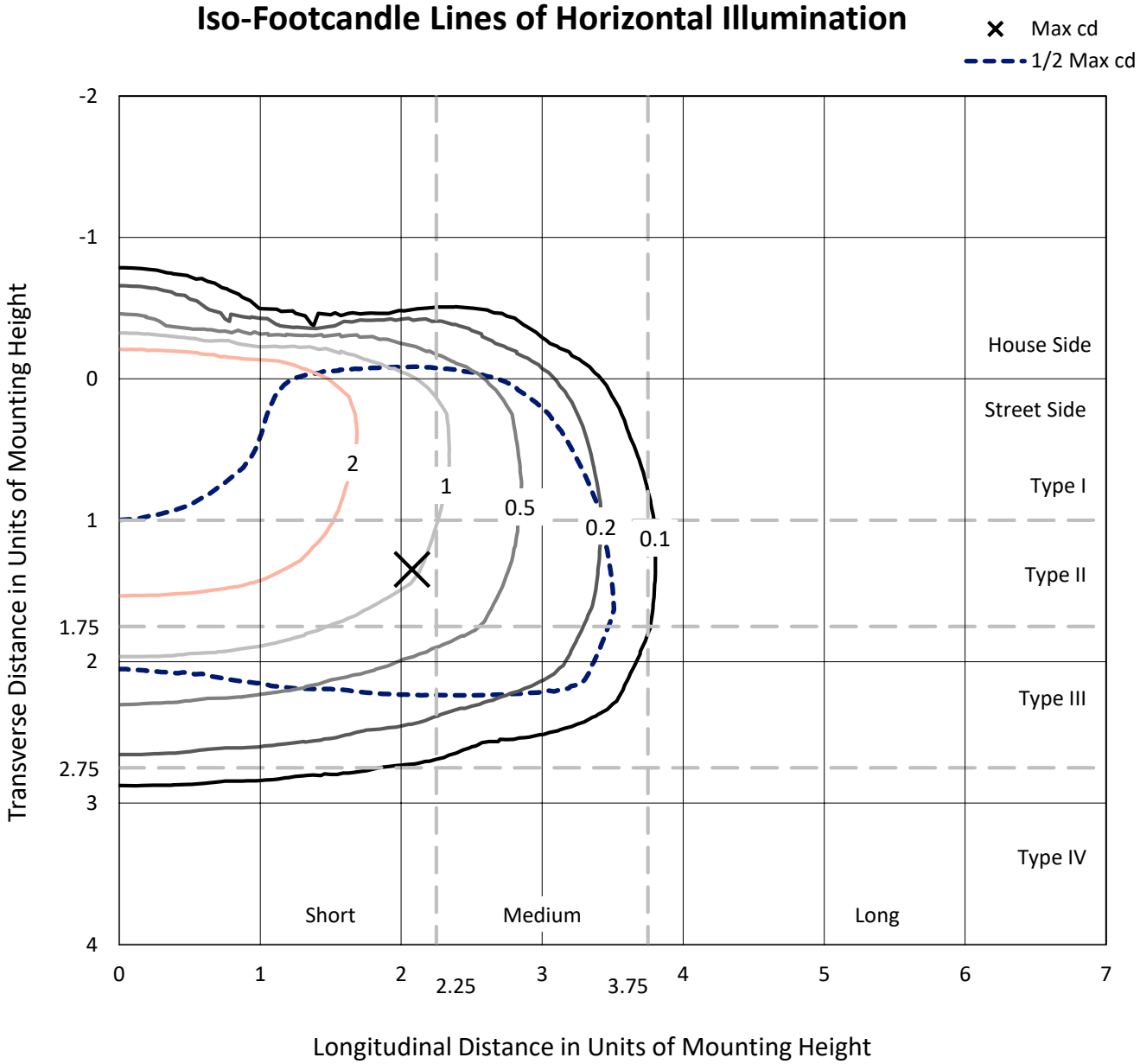
Scaled Data Report

REPORT NUMBER: P322399
CATALOG NUMBER: GLEON-SA5B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - N/A

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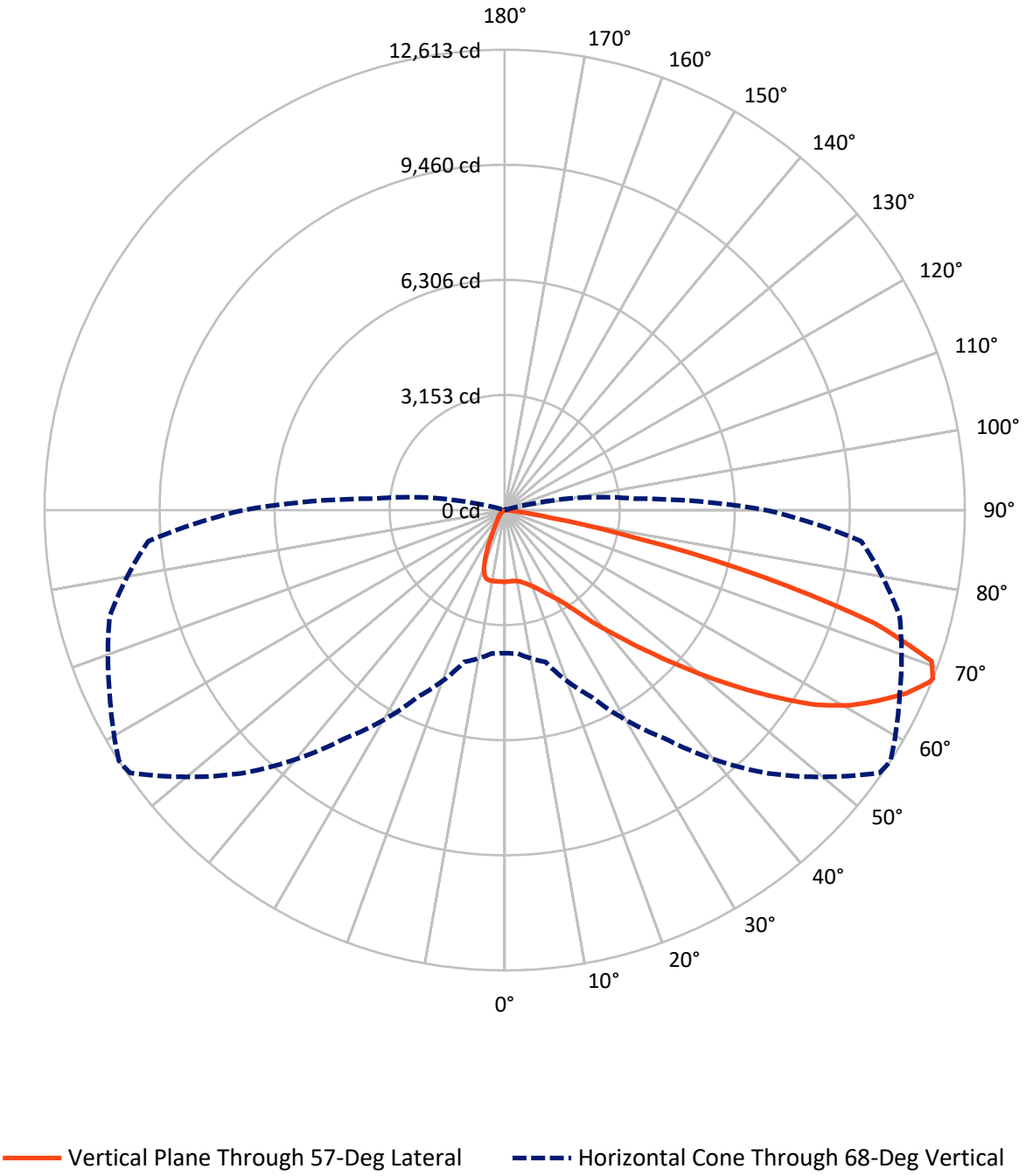
Luminous Intensity Polar Plot



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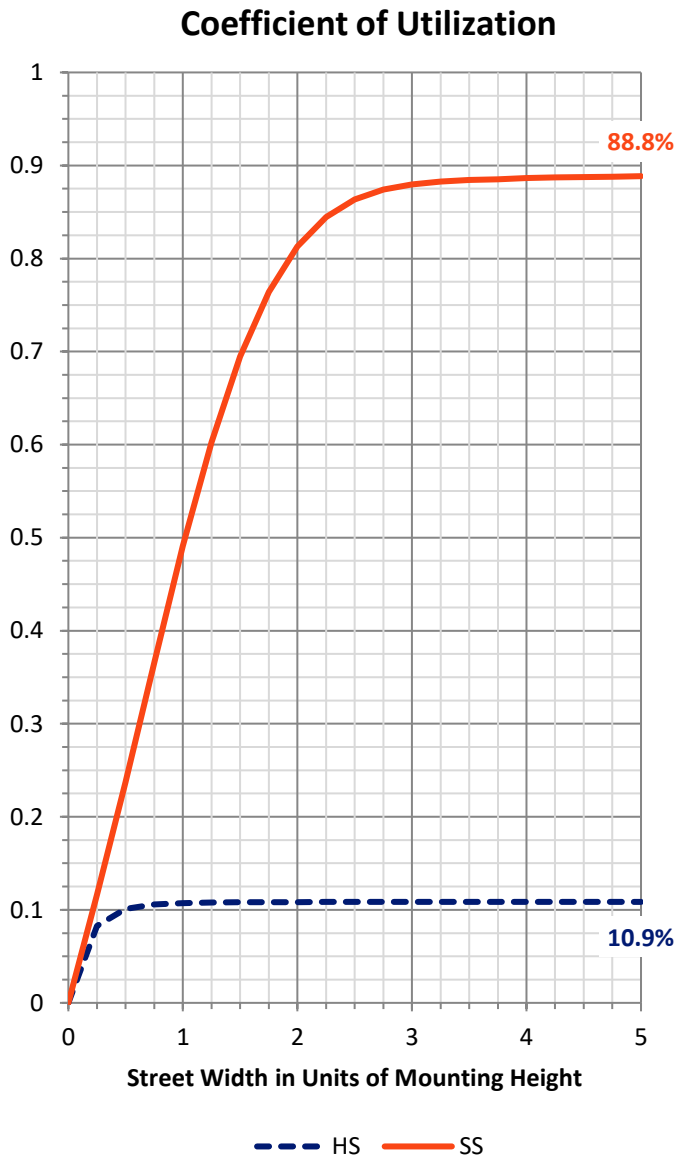
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1813.7	0.0	1813.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	14726.3	0.0	14726.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	16540.0	0.0	16540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.1
10°-20°	509.7	3.1
20°-30°	879.3	5.3
30°-40°	1517.6	9.2
40°-50°	2595.8	15.7
50°-60°	4153.1	25.1
60°-70°	4798.4	29.0
70°-80°	1833.5	11.1
80°-90°	68.7	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°	16540.0	100.0
0°-180°	16540.0	100.0



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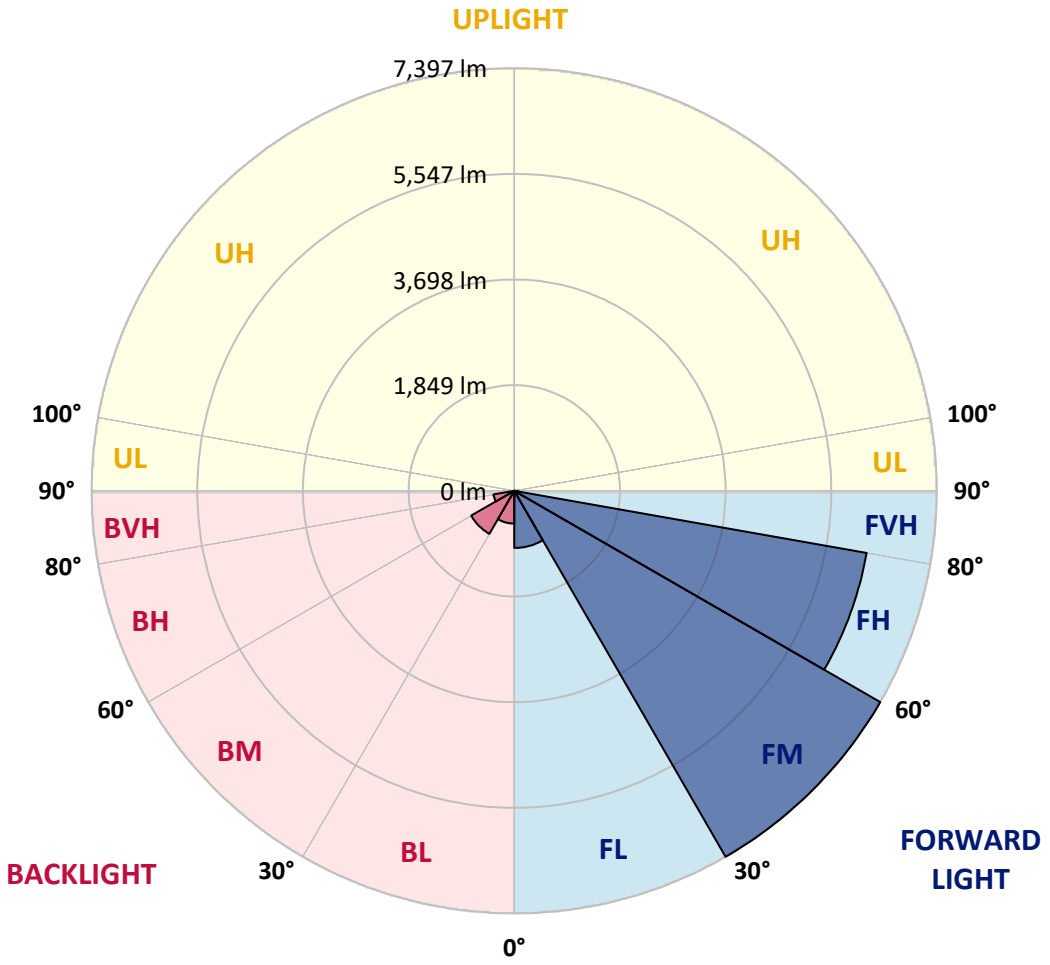
REPORT NUMBER: P322399
CATALOG NUMBER: GLEON-SA5B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	999.7	6.0			
FM	(30°-60°)	7396.6	44.7			
FH	(60°-80°)	6262.6	37.9			G3/7500
FVH	(80°-90°)	67.5	0.4			G1/100
BL	(0°-30°)	573.2	3.5	B2/1000		
BM	(30°-60°)	869.9	5.3	B1/1000		
BH	(60°-80°)	369.4	2.2	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Short



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Scaled Data Report

REPORT NUMBER: P322399
CATALOG NUMBER: GLEON-SA5B-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1919.2	1927.8	1934.1	1938.0	1942.7	1952.9	1956.0	1960.7	1963.0	1963.0	1968.5
5°	1843.4	1852.8	1866.1	1877.0	1898.9	1927.1	1947.4	1955.2	1969.3	1981.8	1988.9
7.5°	1773.0	1783.9	1799.6	1825.4	1862.9	1908.3	1950.5	1961.5	1988.9	2015.4	2028.7
10°	1727.6	1736.2	1756.6	1793.3	1842.6	1905.9	1965.4	1978.7	2025.6	2070.2	2095.2
12.5°	1712.0	1719.8	1740.9	1782.4	1843.4	1917.7	1999.8	2019.4	2088.2	2153.1	2188.3
15°	1734.7	1736.2	1758.9	1798.0	1858.2	1946.6	2056.9	2080.4	2167.2	2251.6	2295.4
17.5°	1822.3	1815.2	1827.0	1844.2	1891.9	1984.9	2117.1	2152.3	2268.1	2367.4	2408.8
20°	2041.3	2041.3	2014.7	1967.7	1968.5	2044.4	2198.5	2238.3	2379.9	2494.9	2532.4
22.5°	2415.9	2408.8	2355.7	2240.7	2135.1	2146.8	2297.8	2349.4	2514.4	2637.2	2649.7
25°	2866.4	2857.8	2775.6	2613.7	2430.7	2312.6	2432.3	2491.7	2674.7	2783.5	2757.6
27.5°	3343.4	3336.4	3255.1	3054.1	2793.6	2577.0	2592.6	2648.9	2838.2	2945.3	2863.2
30°	3805.6	3808.0	3727.4	3521.0	3226.1	2914.1	2796.0	2828.8	2997.0	3105.7	2988.4
32.5°	4245.2	4248.3	4178.7	3948.0	3672.7	3305.9	3077.5	3068.9	3181.5	3288.7	3154.2
35°	4637.0	4644.8	4597.1	4418.0	4126.3	3742.3	3442.8	3422.4	3443.5	3564.8	3408.3
37.5°	5014.8	5019.4	4983.5	4832.5	4588.5	4221.7	3904.2	3875.2	3829.9	3923.0	3743.9
40°	5428.5	5416.7	5375.3	5238.4	5028.8	4751.2	4400.0	4350.0	4271.0	4353.9	4185.0
42.5°	5813.3	5800.0	5807.0	5652.2	5475.4	5295.5	4978.0	4892.0	4845.8	4941.2	4726.2
45°	6294.2	6287.2	6310.7	6176.2	6033.0	5902.4	5640.4	5546.6	5526.2	5638.1	5380.8
47.5°	6769.0	6786.2	6858.9	6801.8	6743.9	6629.0	6342.0	6299.7	6312.2	6447.5	6071.4
50°	7164.7	7185.0	7384.5	7450.2	7533.9	7466.6	7178.8	7153.0	7202.3	7324.3	6814.3
52.5°	7451.0	7492.4	7740.3	8043.0	8348.0	8393.4	8106.3	8082.9	8149.4	8168.1	7388.4
55°	7649.6	7686.4	7967.1	8520.9	9141.8	9337.4	9159.0	9068.3	9055.8	8870.4	7992.2
57.5°	7684.8	7680.9	8084.4	8829.8	9764.4	10268.8	10156.2	10067.0	9810.5	9519.6	8684.3
60°	7486.1	7508.8	7977.3	8936.9	10155.4	10973.5	10982.1	10866.3	10466.7	10150.7	9355.3
62.5°	6874.6	6966.8	7440.0	8656.2	10150.7	11257.4	11587.4	11499.0	11021.2	10667.7	10035.8
65°	5882.9	5915.7	6367.0	7694.2	9464.8	11138.5	12132.5	12099.7	11520.9	11169.8	10385.4
67.5°	4296.0	4224.8	4698.8	6058.8	8013.3	10445.6	12523.6	12565.0	11906.5	11273.0	10013.1
68°	3920.6	3941.7	4310.9	5654.5	7633.2	10200.8	12549.4	12612.7	11944.8	11205.8	9809.7
70°	2336.9	2377.5	2706.8	3893.2	5807.0	8815.7	12271.0	12415.7	11716.5	10512.0	8484.9
72.5°	596.7	645.2	956.5	1742.5	3316.8	6211.3	10358.8	10603.6	10172.6	8527.9	5728.0
75°	245.6	258.1	341.8	574.1	1235.7	2798.3	6827.6	7351.6	7052.1	5105.5	2588.7
77.5°	169.7	178.3	219.8	318.3	534.9	948.7	3347.3	3725.9	3356.7	1742.5	564.7
80°	122.0	129.0	157.2	211.9	307.4	338.6	1091.0	1261.5	1001.9	382.4	140.0
82.5°	72.7	78.2	117.3	150.9	186.9	161.9	271.4	308.1	290.2	190.0	62.6
85°	36.0	42.2	79.0	107.9	100.9	68.0	82.9	92.3	114.2	115.7	33.6
87.5°	2.3	4.7	46.1	64.9	28.2	15.6	24.2	29.7	40.7	57.1	14.1
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: P322399
CATALOG NUMBER: GLEON-SA5B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1970.9	1971.6	1966.2	1963.8	1965.4	1956.0	1952.1	1953.7	1953.7	1956.0	1952.1
5°	1990.4	1990.4	1981.0	1968.5	1961.5	1943.5	1931.8	1928.6	1926.3	1924.7	1921.6
7.5°	2032.6	2028.0	2011.5	1984.2	1960.7	1921.6	1891.9	1876.2	1868.4	1865.3	1862.9
10°	2100.7	2092.1	2064.7	2013.9	1959.9	1890.3	1825.4	1779.3	1740.9	1725.3	1715.9
12.5°	2192.2	2179.7	2133.5	2049.1	1954.4	1826.2	1685.4	1550.1	1424.2	1372.6	1346.8
15°	2297.8	2279.8	2207.1	2078.8	1922.4	1681.5	1375.7	1138.7	964.3	898.6	870.5
17.5°	2404.9	2381.5	2271.2	2097.6	1826.2	1382.0	965.1	728.9	612.4	581.1	570.1
20°	2512.8	2478.4	2326.7	2083.5	1608.8	996.4	636.6	532.6	499.0	489.6	486.5
22.5°	2615.3	2562.1	2376.8	2028.7	1274.0	668.7	503.7	470.8	459.9	454.4	452.8
25°	2704.5	2630.2	2420.6	1859.8	901.7	505.2	453.6	442.7	428.6	418.4	419.2
27.5°	2788.1	2698.2	2447.2	1581.4	601.4	431.7	420.0	405.1	379.3	364.5	364.5
30°	2889.0	2788.9	2466.7	1216.9	442.7	381.7	372.3	349.6	314.4	294.8	294.8
32.5°	3040.8	2926.6	2454.2	854.0	366.8	335.5	313.6	282.3	244.0	225.2	224.5
35°	3273.0	3139.3	2365.0	560.0	323.8	291.7	256.5	218.2	184.6	168.9	168.1
37.5°	3585.9	3424.0	2164.8	400.4	290.2	251.1	208.8	166.6	141.6	131.4	130.6
40°	3991.8	3754.8	1878.6	324.6	258.9	211.9	161.1	129.0	111.8	104.0	104.8
42.5°	4479.0	4109.1	1535.2	280.0	228.4	174.4	125.9	101.7	90.7	85.2	83.7
45°	5020.2	4458.7	1175.5	249.5	197.9	140.8	98.5	80.6	72.0	68.8	68.8
47.5°	5615.4	4798.9	860.3	222.9	165.0	108.7	79.0	65.7	58.7	56.3	55.5
50°	6155.8	5035.1	620.2	194.7	135.3	86.0	64.1	54.7	50.1	46.9	46.9
52.5°	6606.3	5109.4	456.7	164.2	109.5	68.8	53.2	46.9	42.2	39.9	39.9
55°	7002.8	5078.9	339.4	135.3	88.4	56.3	45.4	39.9	36.0	33.6	33.6
57.5°	7382.9	4980.3	253.4	110.3	71.2	45.4	38.3	33.6	29.7	28.2	28.2
60°	7693.4	4816.1	188.5	89.2	57.1	36.8	32.1	27.4	24.2	21.9	21.9
62.5°	7945.2	4634.7	138.4	73.5	45.4	28.9	25.0	22.7	18.0	15.6	15.6
65°	7946.8	4333.6	104.0	61.0	35.2	22.7	18.8	18.0	11.7	9.4	8.6
67.5°	7372.0	3736.0	79.8	52.4	27.4	17.2	14.1	14.9	6.3	3.9	3.1
68°	*7163.1*	*3584.3*	*75.1*	*51.6*	*25.8*	*16.4*	*13.3*	*14.9*	*5.5*	*3.1*	*2.3*
70°	6039.3	2851.5	60.2	50.1	22.7	12.5	10.9	14.9	4.7	2.3	1.6
72.5°	3862.7	1654.9	44.6	39.9	17.2	9.4	7.0	13.3	4.7	1.6	0.8
75°	1643.9	513.0	30.5	28.2	10.2	7.0	4.7	8.6	3.1	0.8	0.0
77.5°	346.5	115.7	18.0	17.2	7.0	4.7	3.1	2.3	0.8	0.0	0.0
80°	89.2	33.6	9.4	8.6	3.9	2.3	1.6	0.0	0.0	0.0	0.0
82.5°	28.2	13.3	5.5	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	7.8	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.3	0.8	0.0	0.0	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

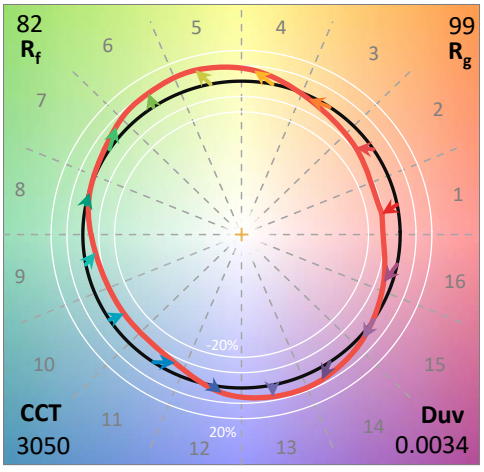
Test Information

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

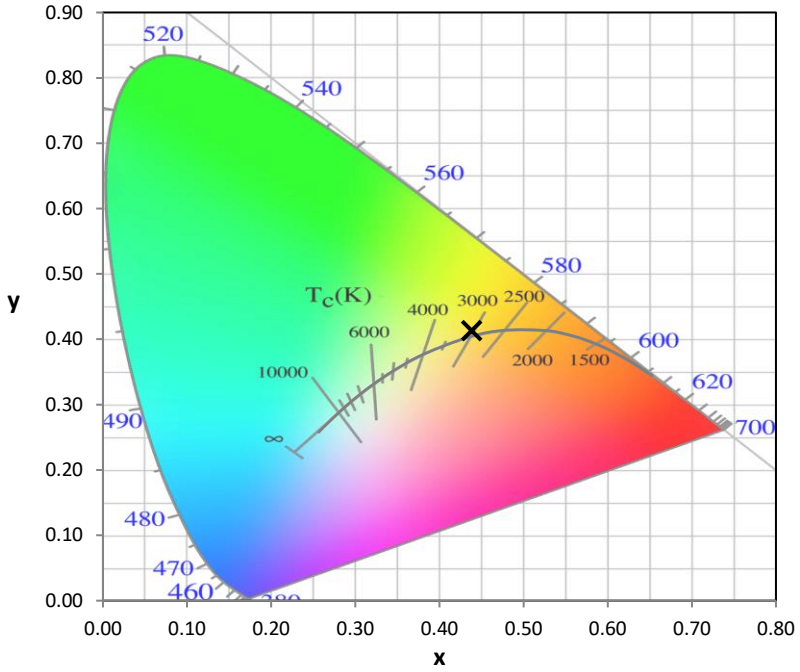
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

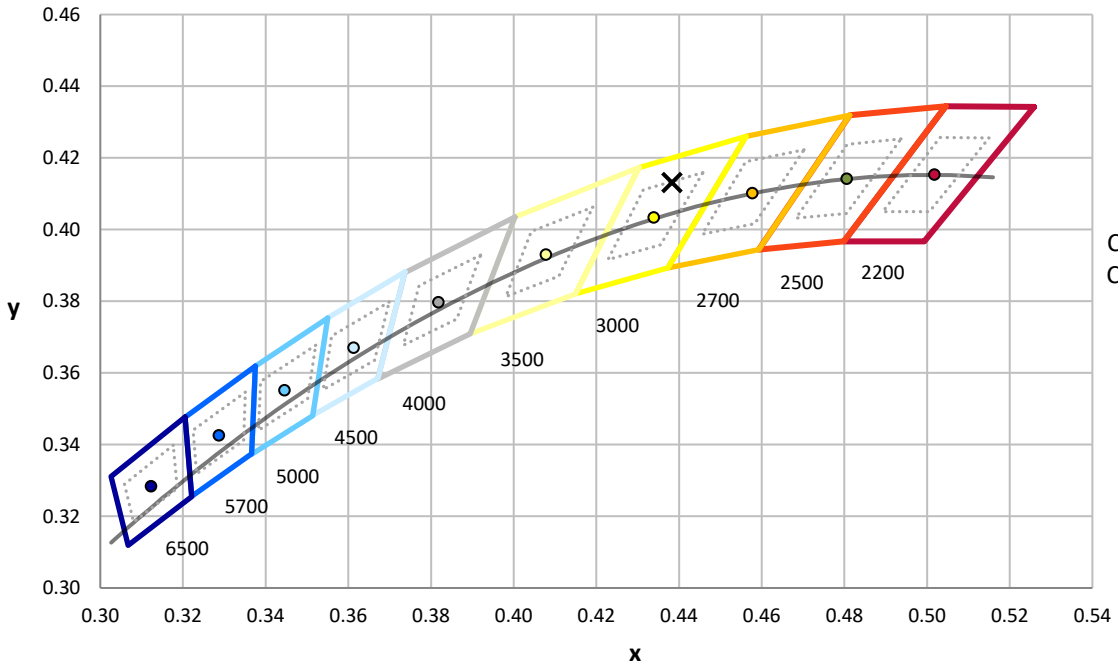
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

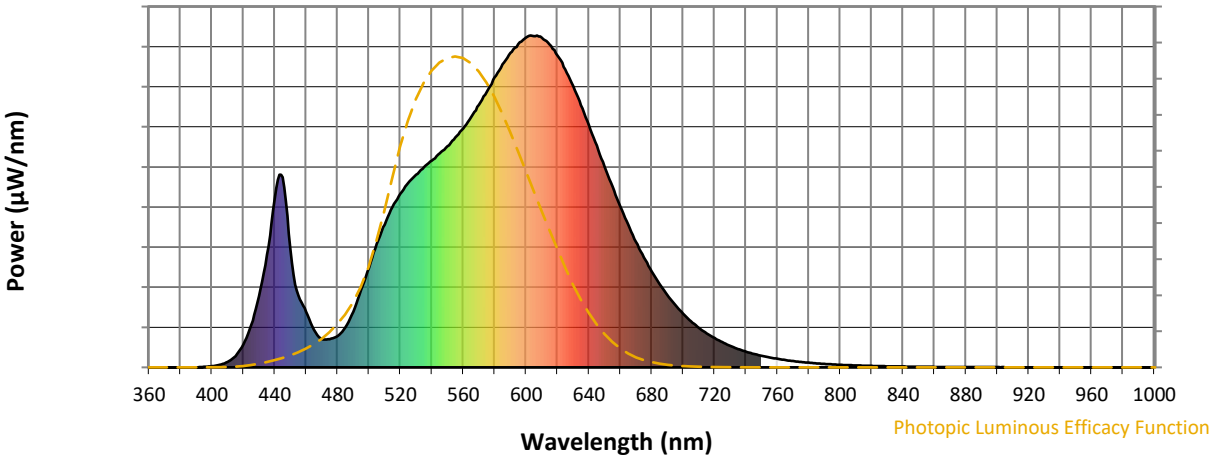


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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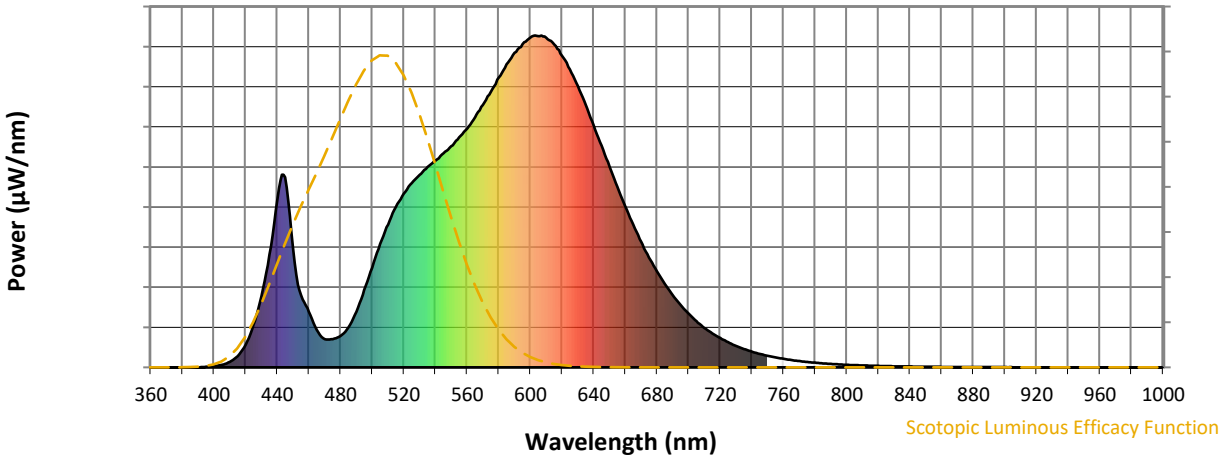
Scotopic Flux vs. Wavelength



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			

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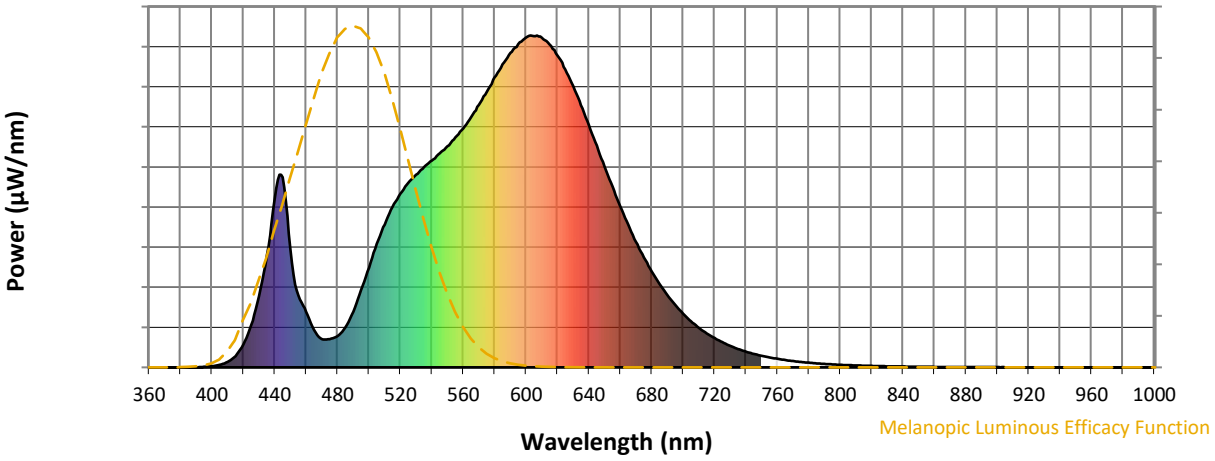
Melanopic Flux vs. Wavelength



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			

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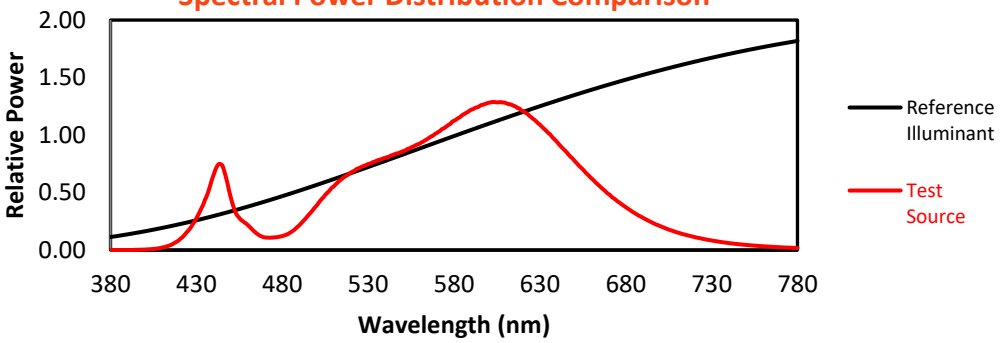
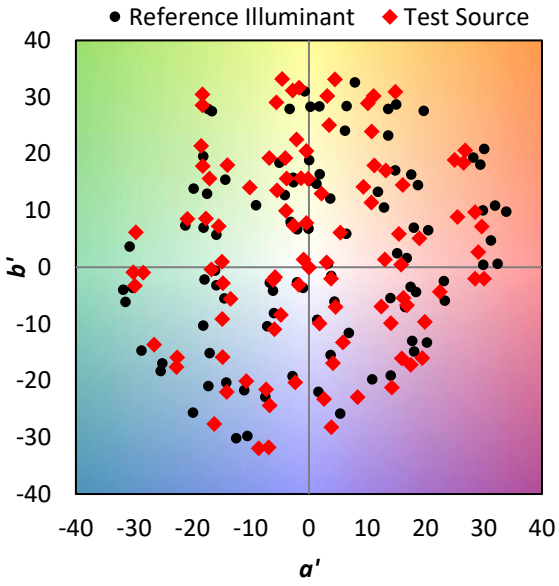
Summary

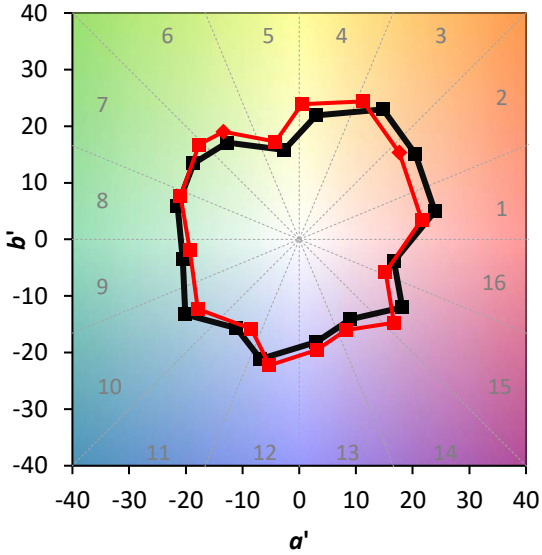
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

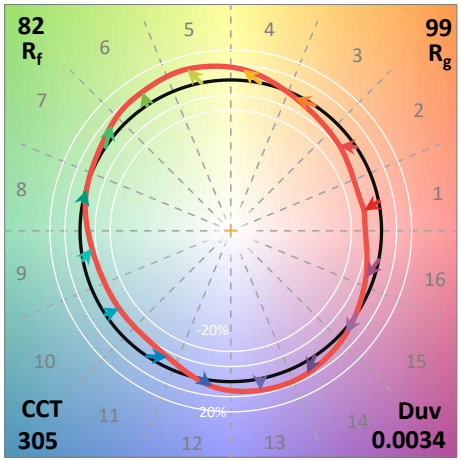
Spectral Power Distribution Comparison

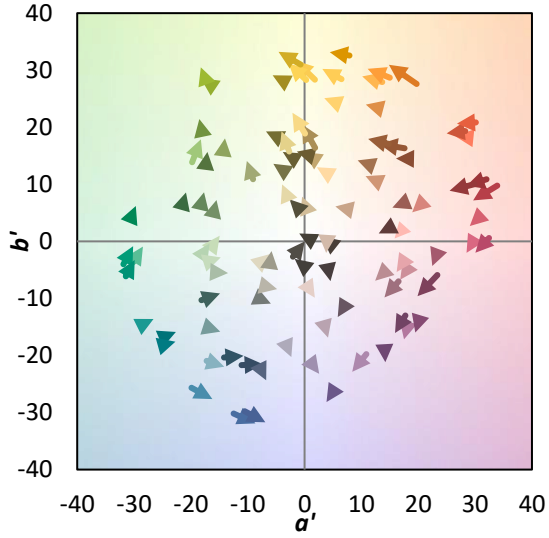


Color Vector Graphics









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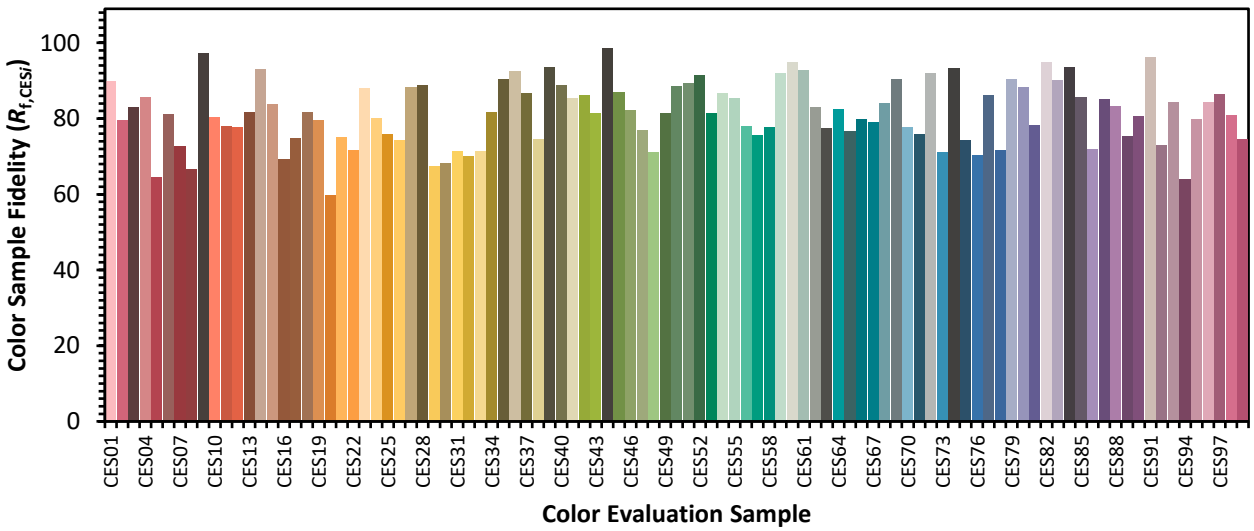
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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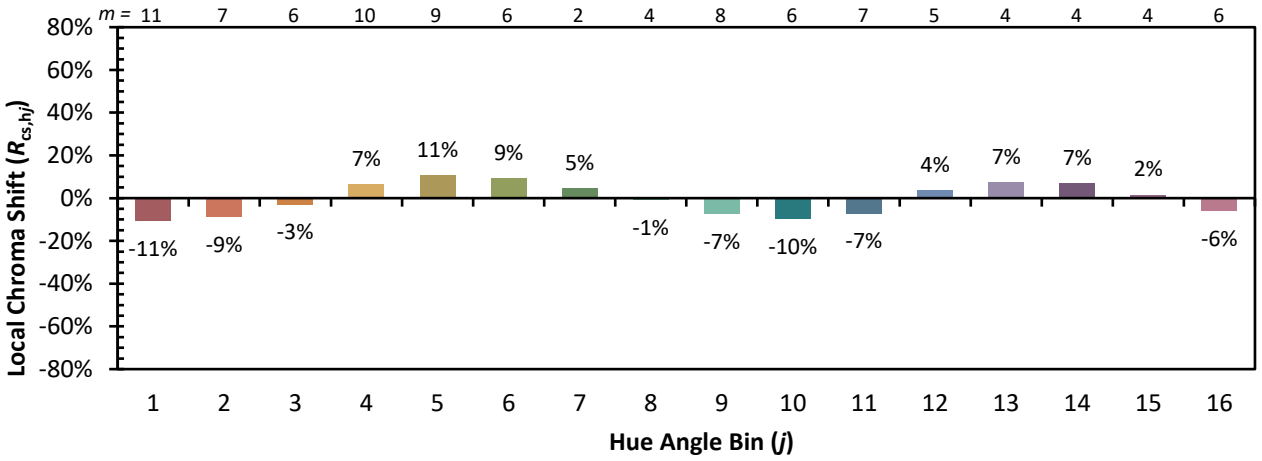
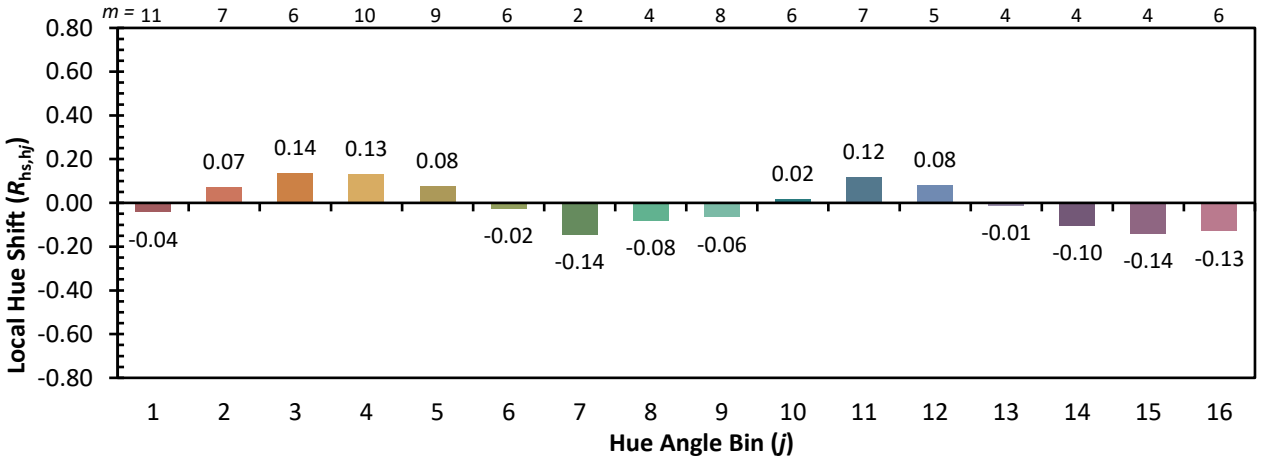
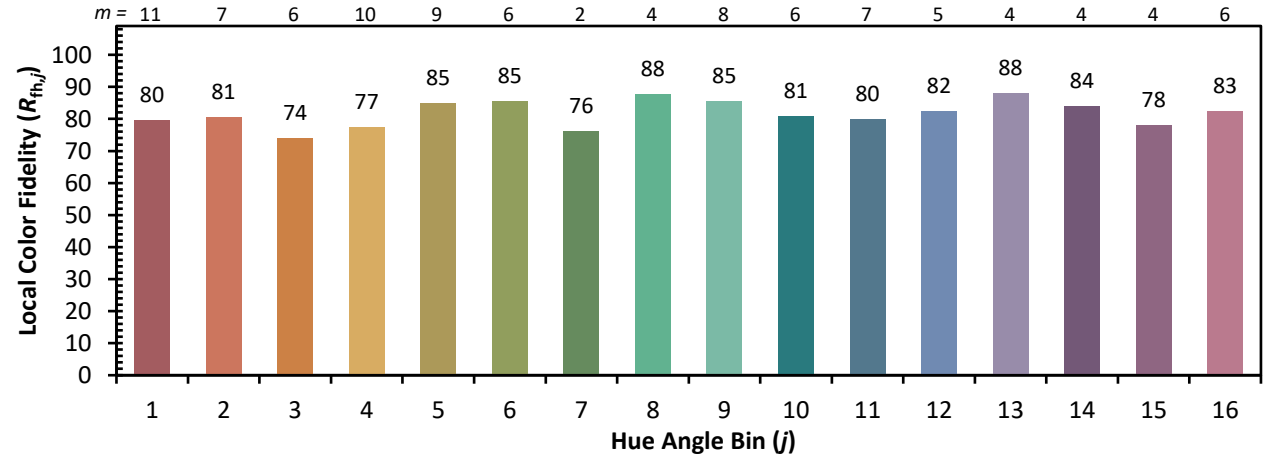
Color Rendition by Hue-Angle Bin







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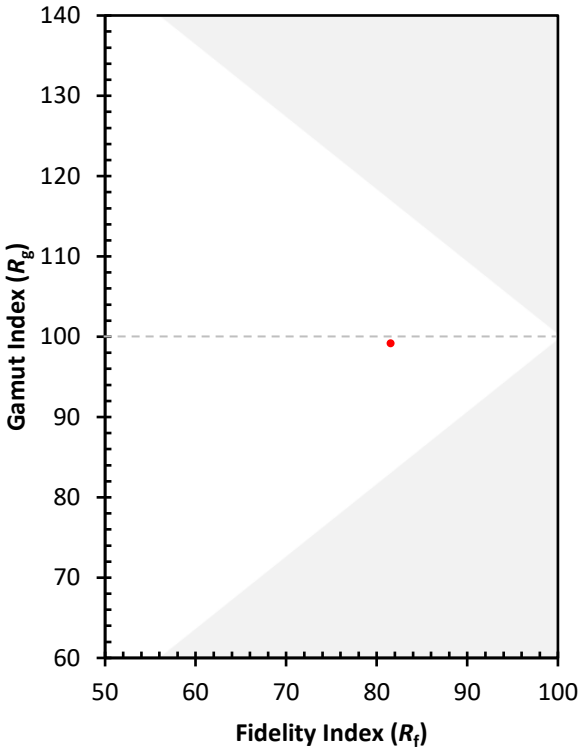
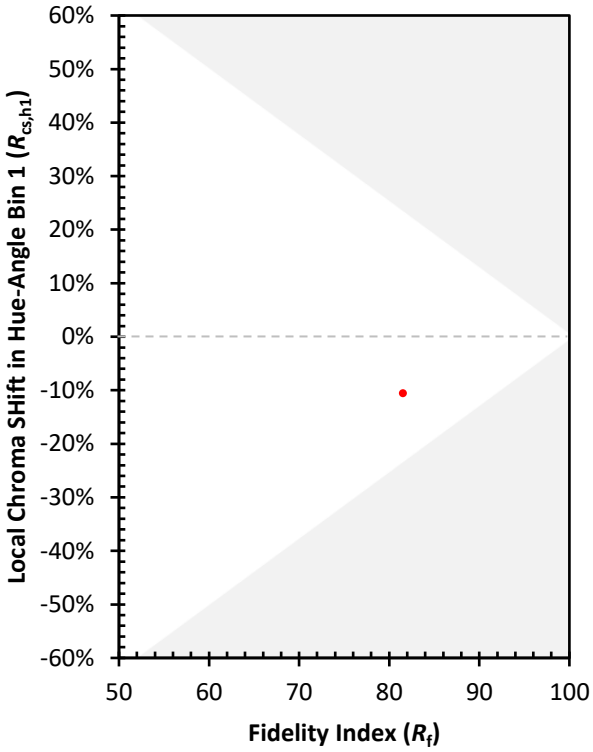
Measure Comparisons





(END OF REPORT)