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: P318868

Luminaire Tested: **GLEON-SA4A-830-U-T4FT**

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:	P318868
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4A-830-U-T4FT
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15027 lumens
Efficiency:	N/A
Efficacy:	116.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	129
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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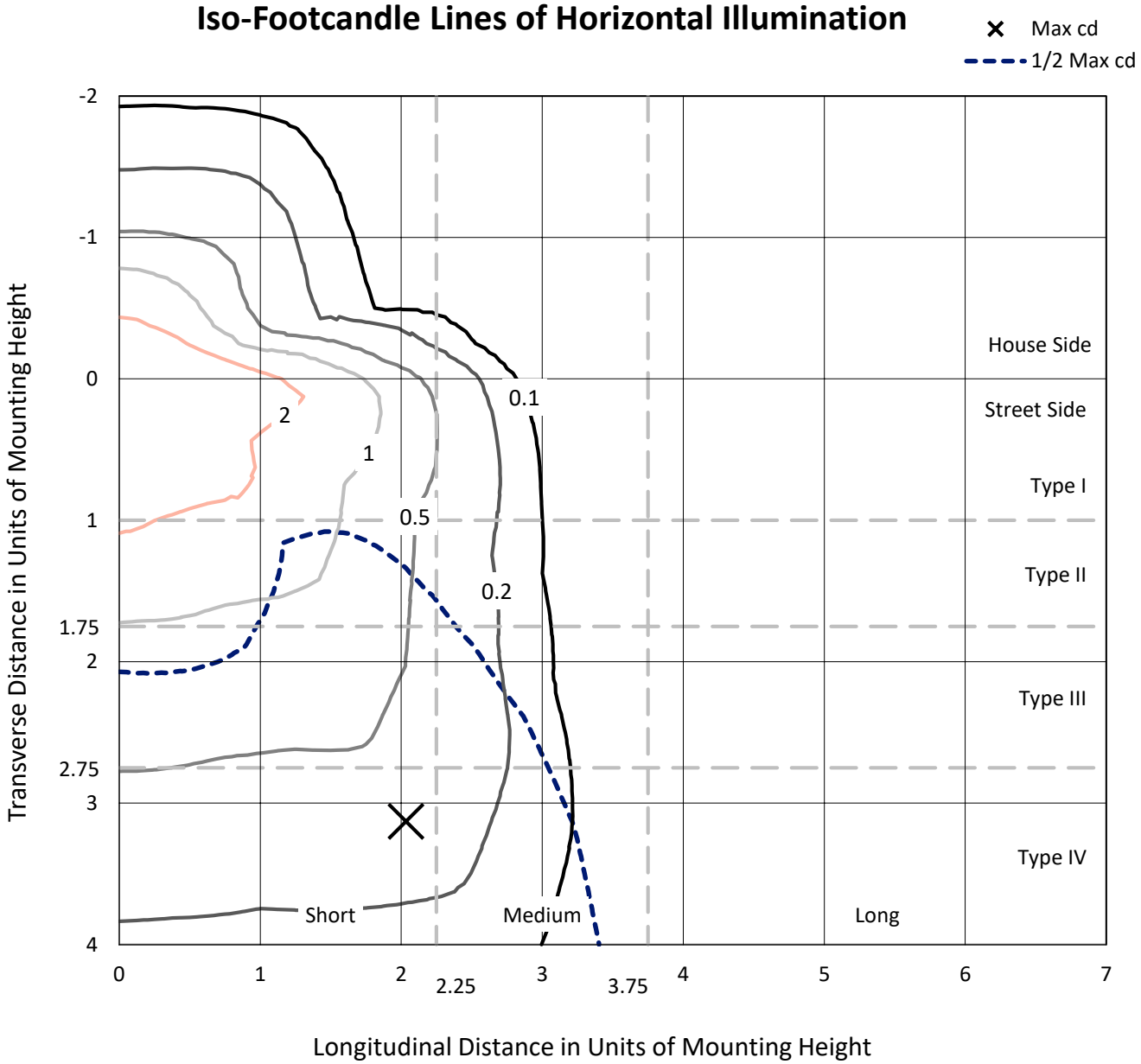
Scaled Data Report

REPORT NUMBER: P318868
CATALOG NUMBER: GLEON-SA4A-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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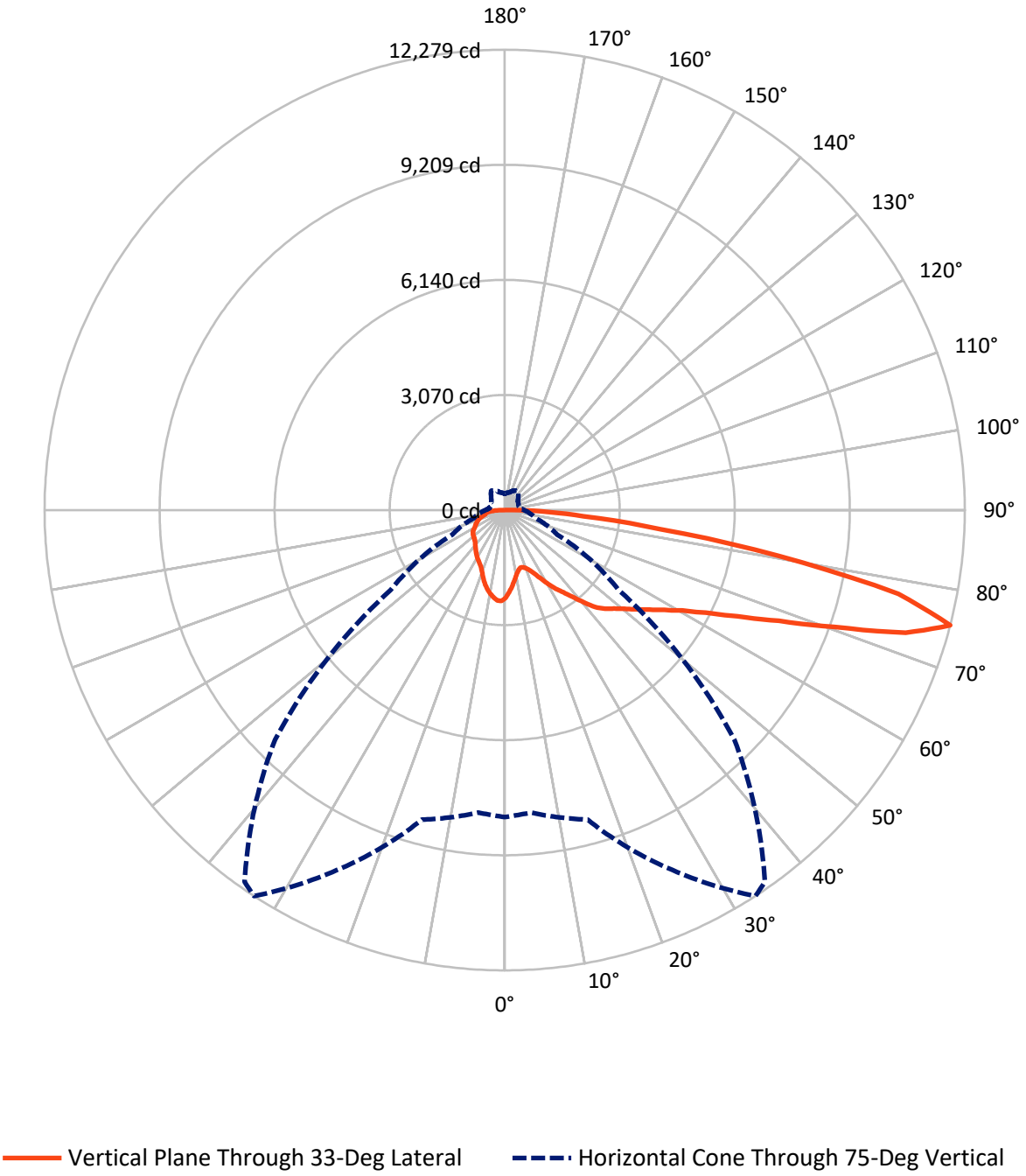
Luminous Intensity Polar Plot



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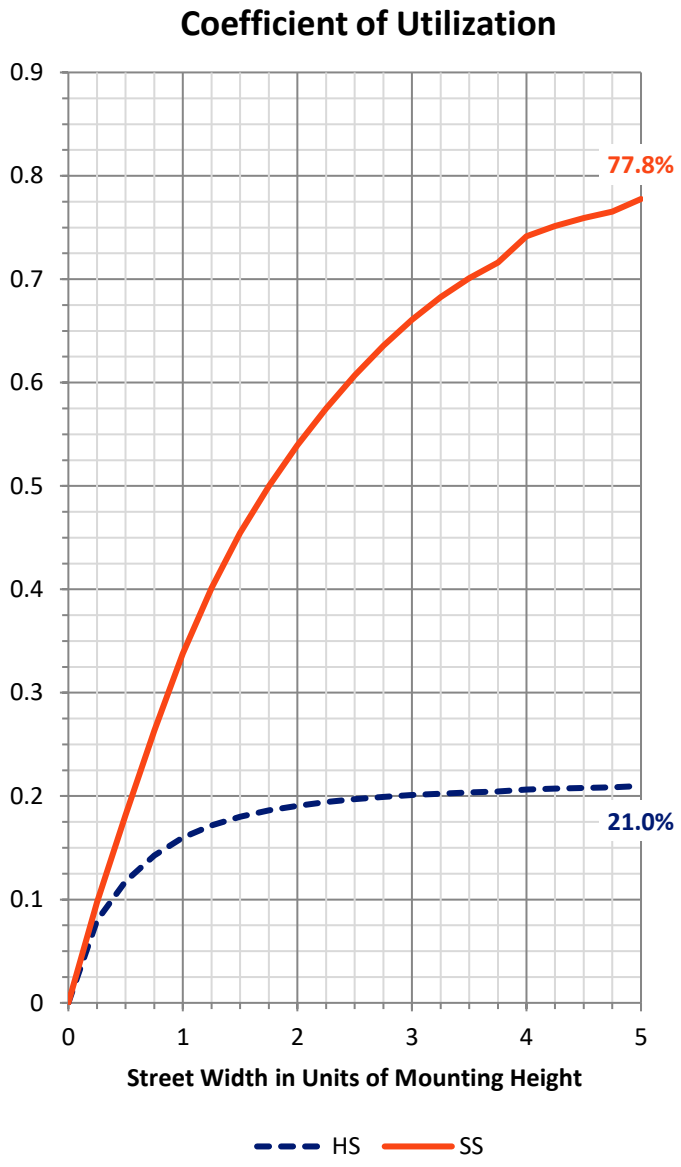
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3226.7	0.0	3226.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11800.3	0.0	11800.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	15027.0	0.0	15027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	1.4
10°-20°	575.3	3.8
20°-30°	939.6	6.3
30°-40°	1399.3	9.3
40°-50°	2006.9	13.4
50°-60°	2755.2	18.3
60°-70°	3449.4	23.0
70°-80°	3120.5	20.8
80°-90°	568.4	3.8
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°	15027.0	100.0
0°-180°	15027.0	100.0



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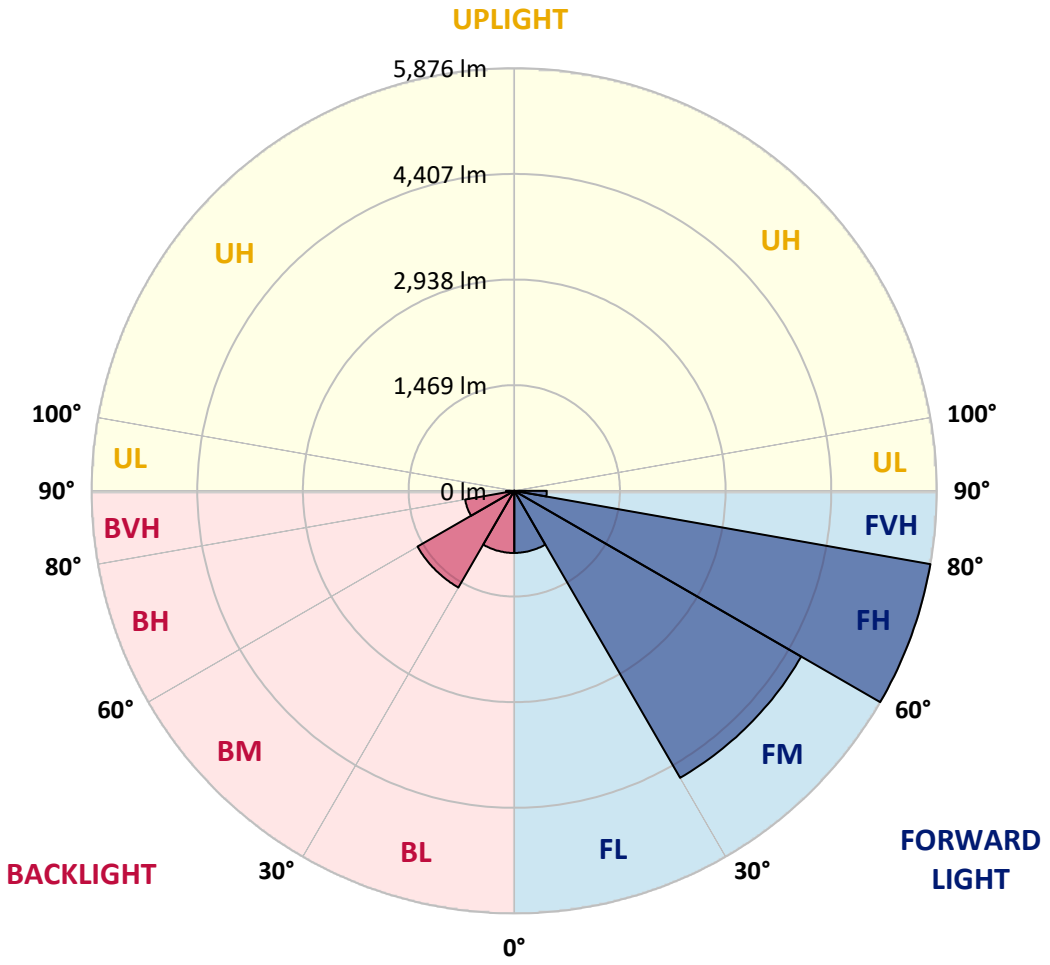
REPORT NUMBER: P318868
CATALOG NUMBER: GLEON-SA4A-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	863.1	5.7			
FM	(30°-60°)	4608.5	30.7			
FH	(60°-80°)	5876.1	39.1			G3/7500
FVH	(80°-90°)	452.7	3.0			G3/500
BL	(0°-30°)	864.3	5.8	B2/1000		
BM	(30°-60°)	1552.9	10.3	B2/2500		
BH	(60°-80°)	693.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	115.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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Scaled Data Report

REPORT NUMBER: P318868
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8
2.5°	2181.1	2172.8	2188.4	2190.5	2204.0	2209.2	2227.9	2256.9	2280.8	2308.3	2333.2
5°	1983.4	1977.7	1999.5	2015.0	2044.6	2057.1	2101.2	2163.0	2218.0	2280.3	2336.9
7.5°	1795.5	1792.4	1816.8	1852.1	1886.3	1903.4	1979.7	2069.5	2161.4	2262.1	2348.8
10°	1637.2	1636.1	1659.5	1694.3	1744.6	1763.8	1862.4	1980.8	2109.5	2248.1	2369.0
12.5°	1548.4	1552.0	1562.9	1592.0	1638.7	1657.9	1767.4	1906.6	2065.9	2243.4	2398.6
15°	1570.2	1575.9	1557.2	1556.2	1589.4	1604.5	1707.2	1853.6	2034.8	2251.2	2441.7
17.5°	1663.1	1664.1	1614.8	1583.7	1603.9	1611.7	1688.5	1823.5	2016.6	2268.9	2495.7
20°	1793.9	1791.3	1704.1	1652.2	1663.1	1665.2	1715.0	1824.0	2015.0	2299.5	2565.8
22.5°	1967.3	1948.1	1830.8	1760.2	1757.6	1754.5	1783.0	1862.4	2037.9	2349.3	2649.3
25°	2193.6	2175.4	2014.0	1917.5	1896.7	1888.9	1893.1	1944.4	2083.0	2402.8	2742.8
27.5°	2445.4	2413.7	2258.0	2121.5	2078.4	2067.5	2042.6	2060.2	2132.4	2454.2	2853.9
30°	2656.1	2639.0	2503.0	2341.0	2290.1	2274.6	2209.2	2190.0	2203.5	2524.3	2994.0
32.5°	2773.9	2762.5	2680.0	2549.2	2501.9	2480.1	2387.7	2349.3	2317.7	2634.8	3184.0
35°	2916.7	2909.4	2859.6	2764.6	2694.5	2671.7	2600.0	2560.1	2478.6	2786.9	3429.5
37.5°	3098.3	3090.6	3091.6	3014.8	2931.2	2909.9	2862.7	2820.6	2687.2	2986.7	3696.3
40°	3303.9	3288.8	3283.1	3279.5	3226.6	3214.6	3189.7	3132.6	2948.9	3225.5	3959.5
42.5°	3613.3	3559.8	3445.6	3488.7	3541.1	3534.9	3555.1	3473.1	3239.5	3507.9	4216.4
45°	3911.7	3824.0	3626.8	3636.1	3750.8	3785.6	3937.2	3879.0	3554.6	3817.3	4482.2
47.5°	4047.7	3981.3	3813.6	3814.1	3927.8	4000.0	4332.2	4290.7	3885.8	4168.7	4806.6
50°	4199.8	4133.4	3982.8	4039.4	4138.6	4215.4	4713.7	4692.4	4200.9	4553.3	5195.4
52.5°	4365.9	4253.3	4157.8	4259.0	4398.1	4487.4	5095.7	5037.6	4490.0	4940.5	5642.3
55°	4368.0	4337.4	4410.0	4484.3	4692.4	4801.9	5495.9	5342.3	4725.6	5321.0	6006.2
57.5°	4616.6	4566.8	4721.0	4755.2	5027.2	5150.8	5894.1	5607.5	4965.5	5612.7	6202.4
60°	4945.7	4903.2	5029.3	5119.6	5441.4	5606.5	6319.2	5880.1	5153.9	5832.8	6193.1
62.5°	5514.1	5465.8	5464.3	5590.9	6024.4	6216.4	6796.2	6147.4	5228.6	5876.4	5928.8
65°	6346.2	6269.4	6124.5	6184.8	6829.4	7021.0	7329.3	6341.0	5130.0	5642.8	5248.3
67.5°	7155.9	7153.3	6975.3	7098.8	7892.5	8046.1	7936.6	6360.2	4822.2	4829.5	4041.0
70°	7963.1	7973.5	7943.4	8373.2	9328.8	9488.7	8583.4	6102.2	4130.3	3487.7	2421.0
72.5°	8602.6	8600.0	8751.6	9859.8	11192.8	11157.0	9128.4	5320.5	2965.5	1882.7	1157.0
75°	8188.4	8098.1	8549.6	10595.8	12279.2	12104.3	8664.9	3711.4	1539.1	857.0	622.9
77.5°	5340.7	5426.4	6089.2	8753.1	10740.7	10527.8	6357.1	1731.6	725.1	562.2	451.6
80°	1934.1	2024.4	2851.3	4958.2	7399.9	7365.1	3130.5	711.6	490.5	424.6	329.1
82.5°	665.5	698.7	1124.8	2201.9	4178.0	4333.7	1177.8	404.4	356.6	301.1	225.3
85°	261.1	299.0	514.4	1059.4	2107.4	2123.0	477.0	241.9	248.1	197.2	123.5
87.5°	99.1	120.4	246.0	492.1	962.4	884.0	170.8	115.2	141.2	117.3	58.7
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: P318868
CATALOG NUMBER: GLEON-SA4A-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8	2348.8
2.5°	2352.4	2363.3	2386.2	2401.7	2418.4	2423.0	2425.1	2429.3	2433.4	2431.9	2432.4
5°	2367.0	2388.3	2425.1	2440.7	2447.9	2439.6	2423.6	2410.6	2401.2	2396.0	2394.5
7.5°	2390.8	2421.0	2460.4	2457.8	2441.2	2404.3	2362.8	2331.7	2305.7	2296.4	2291.2
10°	2422.5	2457.8	2485.3	2455.7	2407.5	2343.6	2281.3	2233.1	2194.1	2179.1	2176.5
12.5°	2463.0	2498.8	2504.0	2441.2	2361.3	2274.1	2189.4	2125.6	2067.5	2048.8	2044.6
15°	2515.4	2549.2	2517.0	2415.8	2304.2	2186.9	2077.3	1990.6	1929.4	1906.6	1898.2
17.5°	2570.4	2602.6	2519.6	2373.7	2229.4	2083.6	1946.0	1857.2	1787.2	1760.7	1757.6
20°	2636.4	2650.9	2508.7	2313.5	2126.6	1949.6	1804.8	1721.2	1683.9	1665.2	1663.1
22.5°	2717.9	2702.3	2483.8	2232.0	1996.4	1795.0	1677.1	1638.2	1628.9	1624.7	1626.3
25°	2804.0	2756.3	2446.9	2125.6	1831.8	1640.3	1583.7	1594.6	1607.0	1605.5	1605.5
27.5°	2899.0	2811.3	2390.3	1984.4	1649.6	1513.6	1520.4	1560.3	1579.0	1578.5	1578.0
30°	3021.0	2873.6	2318.2	1814.7	1479.4	1424.3	1465.3	1514.1	1539.6	1538.5	1539.1
32.5°	3171.0	2942.1	2220.1	1625.2	1356.3	1358.4	1405.6	1453.9	1483.5	1480.9	1481.4
35°	3346.5	3018.9	2087.2	1438.4	1274.8	1306.0	1343.4	1377.1	1405.1	1401.5	1397.9
37.5°	3537.5	3094.2	1910.7	1271.2	1208.4	1257.2	1288.3	1294.0	1307.0	1297.7	1290.9
40°	3719.2	3151.8	1683.4	1134.2	1141.4	1215.7	1235.9	1213.1	1189.7	1186.6	1177.3
42.5°	3877.5	3171.0	1453.4	1024.6	1070.8	1172.1	1184.5	1136.8	1094.7	1075.0	1066.7
45°	4044.6	3177.8	1239.0	932.8	1002.8	1133.1	1146.6	1082.8	1023.6	981.0	967.0
47.5°	4263.1	3226.6	1072.4	864.8	950.9	1107.2	1126.4	1039.7	962.9	902.1	889.2
50°	4549.2	3323.1	936.9	812.9	917.2	1090.1	1111.9	997.7	913.0	839.9	826.9
52.5°	4866.8	3411.9	827.4	770.8	884.5	1059.9	1093.2	967.6	866.3	782.2	768.2
55°	5089.0	3343.9	739.2	727.2	841.9	1016.9	1067.2	942.1	799.4	726.2	713.7
57.5°	5131.6	3111.3	672.2	682.1	790.5	962.9	1027.2	885.5	763.0	701.8	688.8
60°	5015.3	2787.4	622.4	640.5	735.5	894.9	952.5	845.6	728.3	675.8	664.9
62.5°	4723.0	2455.7	585.5	603.2	684.1	825.8	905.8	803.5	693.0	646.2	635.3
65°	4132.9	2061.8	550.2	569.9	636.4	766.2	863.7	764.6	658.2	622.4	612.0
67.5°	3119.6	1544.2	517.0	534.6	593.8	714.2	818.1	726.2	624.4	601.6	589.1
70°	1837.0	967.0	479.1	497.8	549.2	660.3	769.3	684.1	582.4	572.0	555.9
72.5°	854.9	581.9	436.0	454.2	493.1	588.1	706.5	629.1	532.6	509.7	487.9
75°	*510.2*	*425.6*	*385.2*	*401.2*	*428.8*	*511.3*	*627.6*	*573.1*	*485.3*	*455.2*	*432.4*
77.5°	381.5	325.5	329.1	346.2	368.5	447.4	555.9	528.9	449.0	425.6	410.1
80°	274.6	247.1	268.4	287.0	310.4	407.0	532.6	489.0	405.9	374.8	360.2
82.5°	183.2	177.5	201.9	221.1	244.0	356.1	500.4	428.2	346.7	307.3	275.1
85°	101.2	106.9	136.0	144.3	164.0	250.7	410.1	344.1	261.1	210.2	200.9
87.5°	42.0	49.3	73.2	70.6	87.2	149.5	269.9	207.6	166.1	124.1	96.5
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

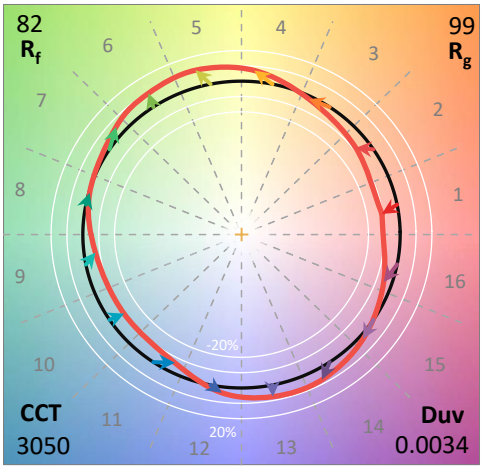
Test Information

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

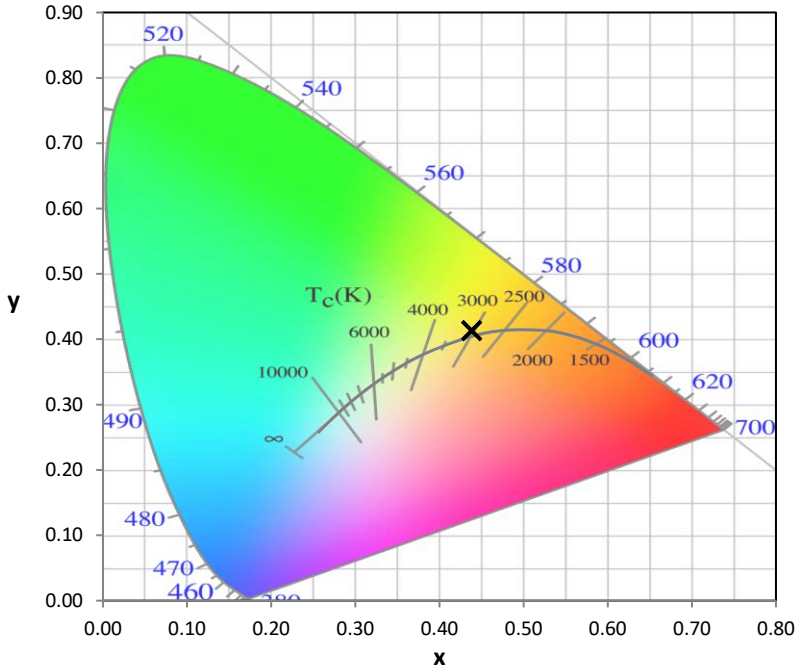
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

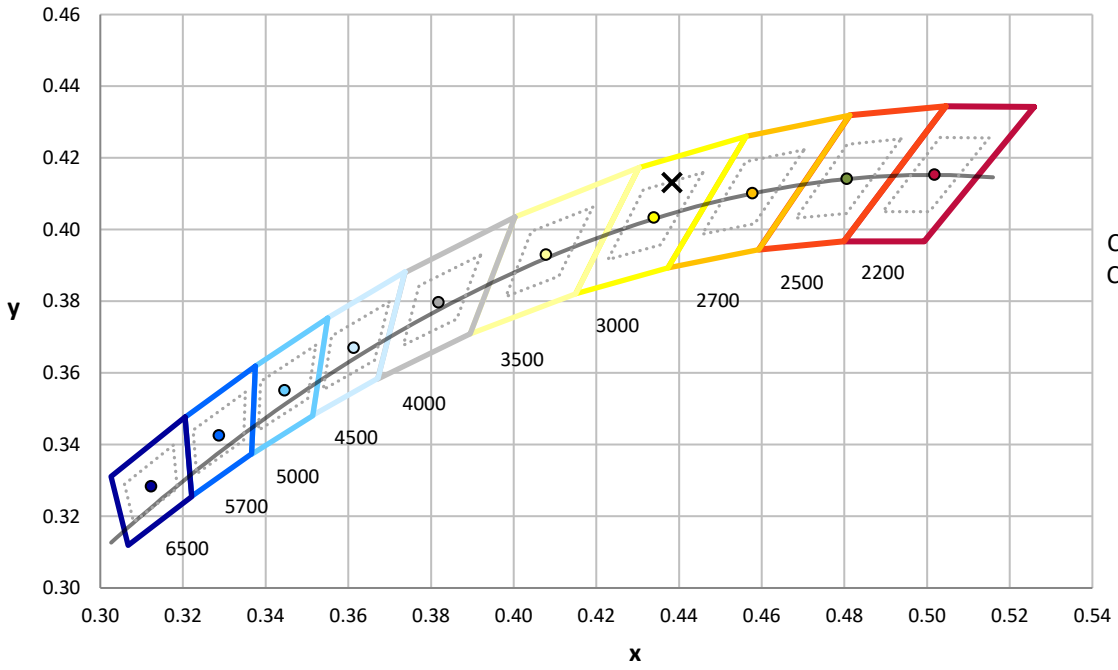
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

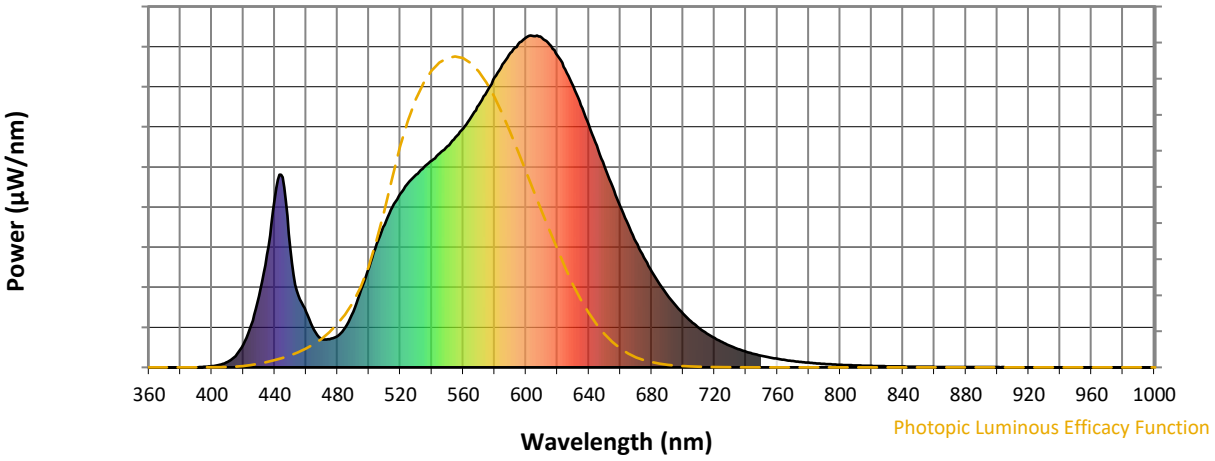


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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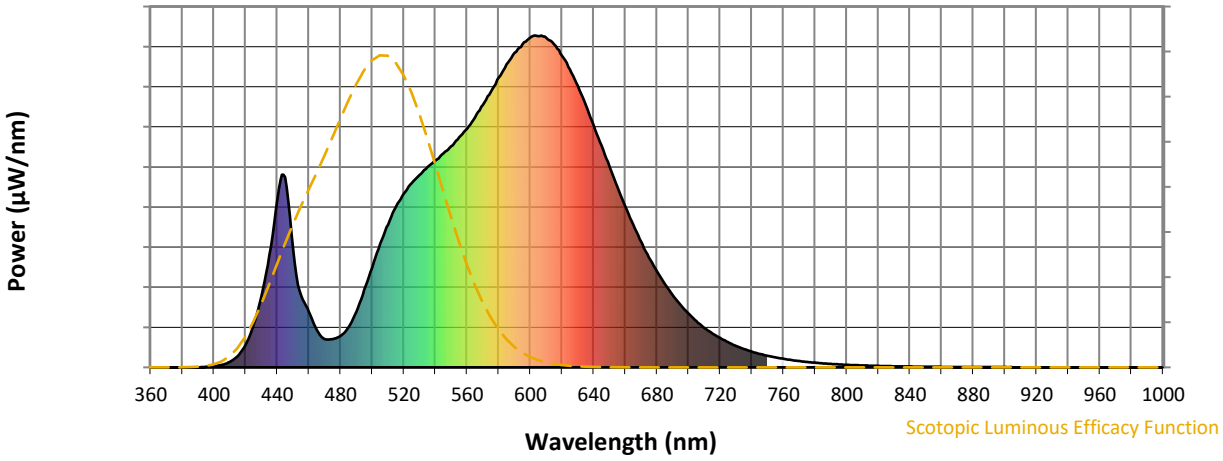
Scotopic Flux vs. Wavelength



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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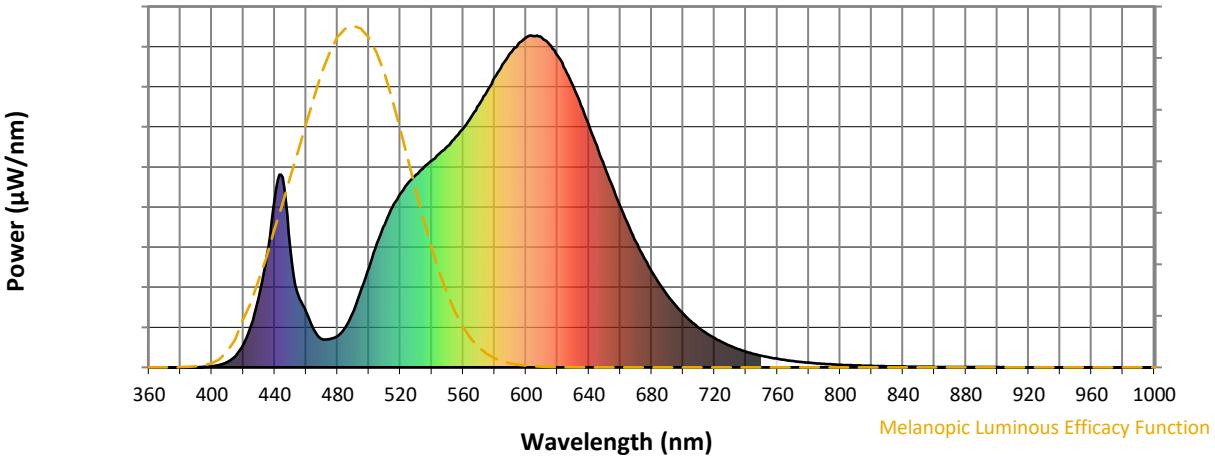
Melanopic Flux vs. Wavelength



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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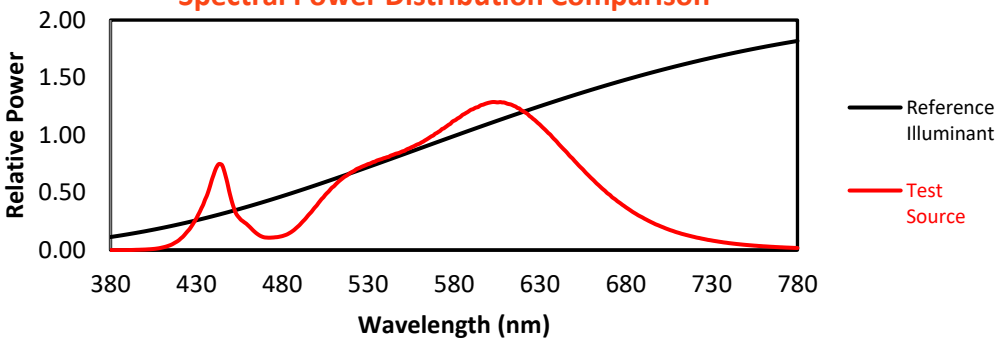
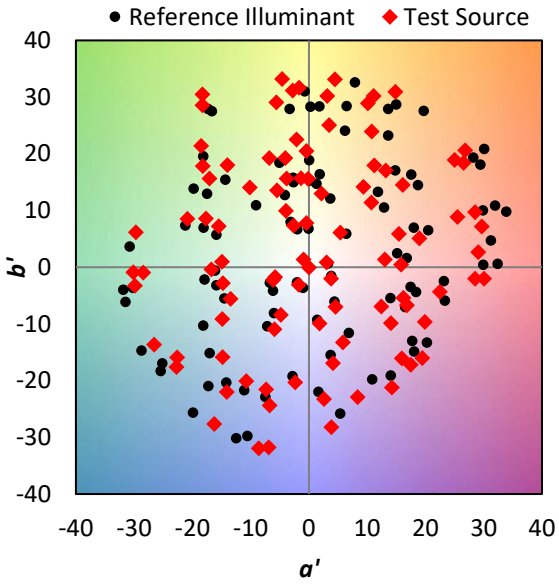
Summary

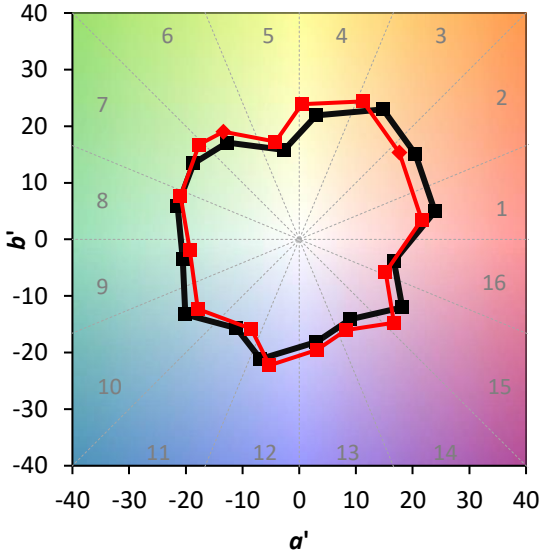
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

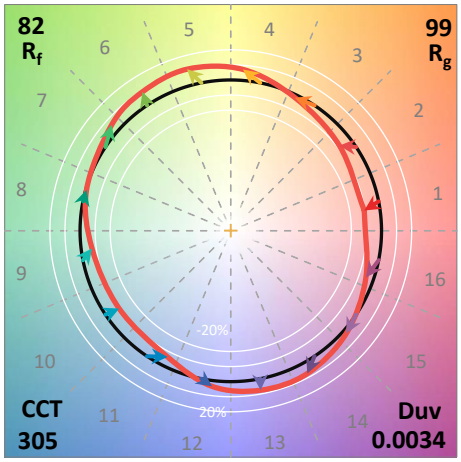
Spectral Power Distribution Comparison

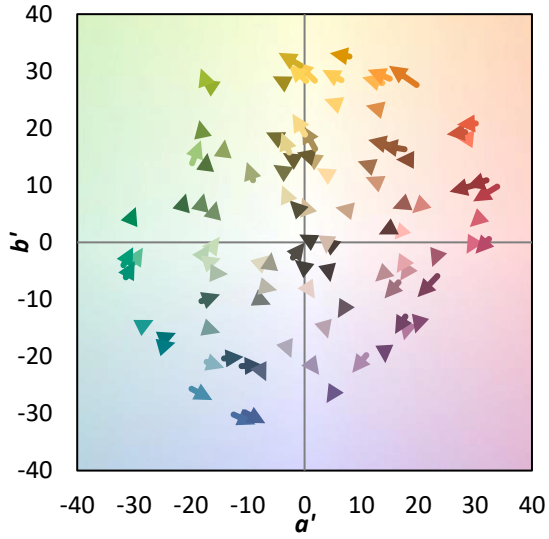


Color Vector Graphics









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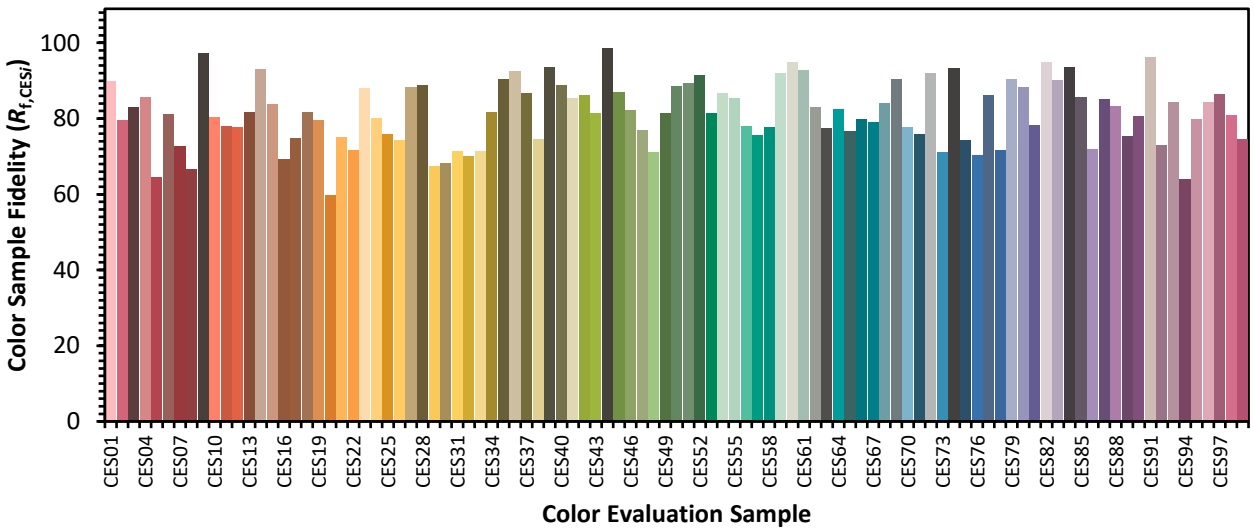
Individual Sample Fidelity Index ($R_{f,i}$)

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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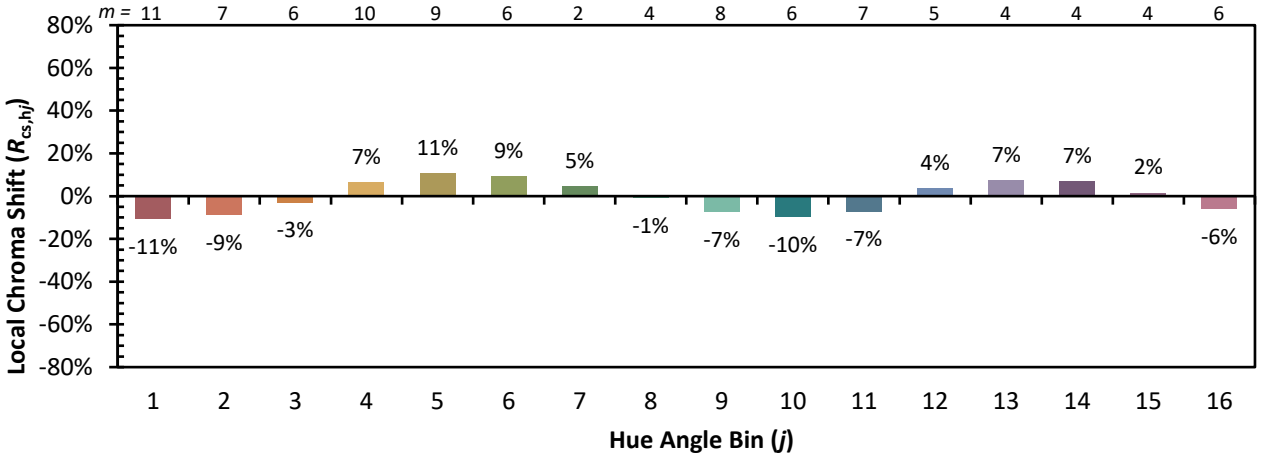
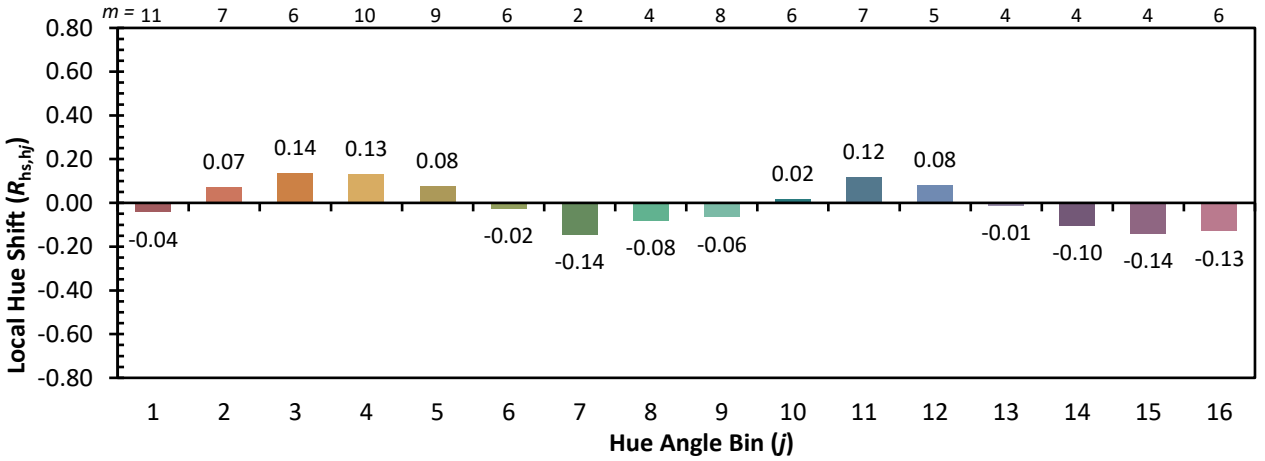
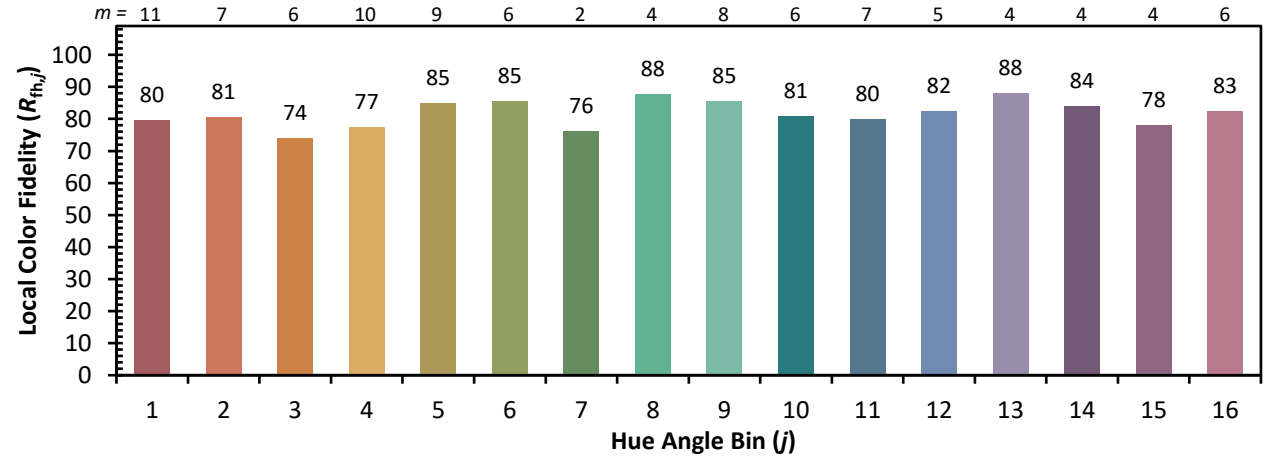
Color Rendition by Hue-Angle Bin







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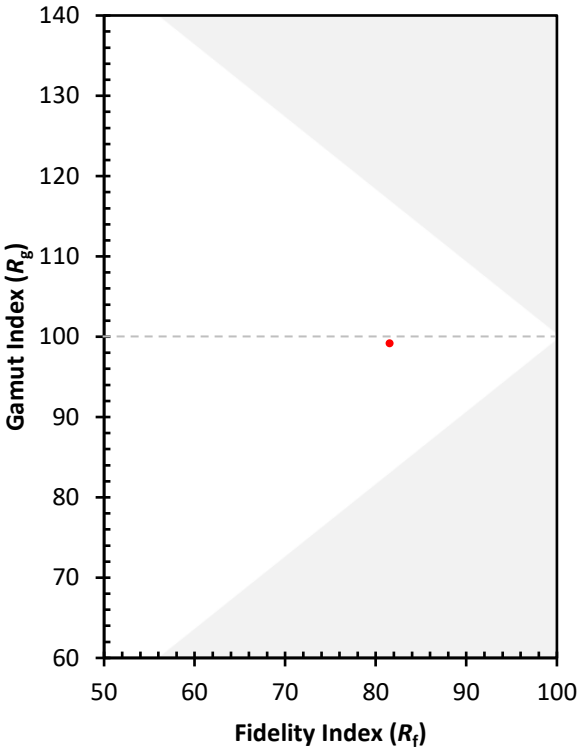
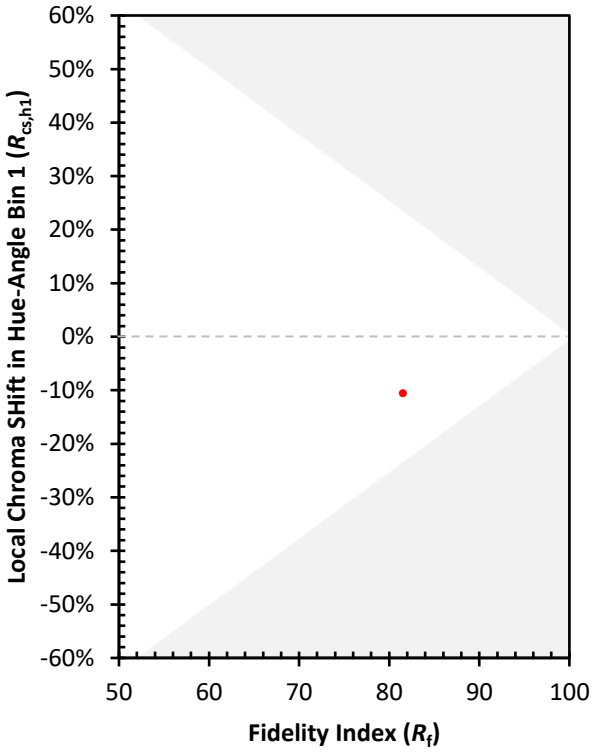
Measure Comparisons





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