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: P318557

Luminaire Tested: **GLEON-SA3B-830-U-T3**

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:	P318557
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
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-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13867 lumens
Efficiency:	N/A
Efficacy:	111.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2

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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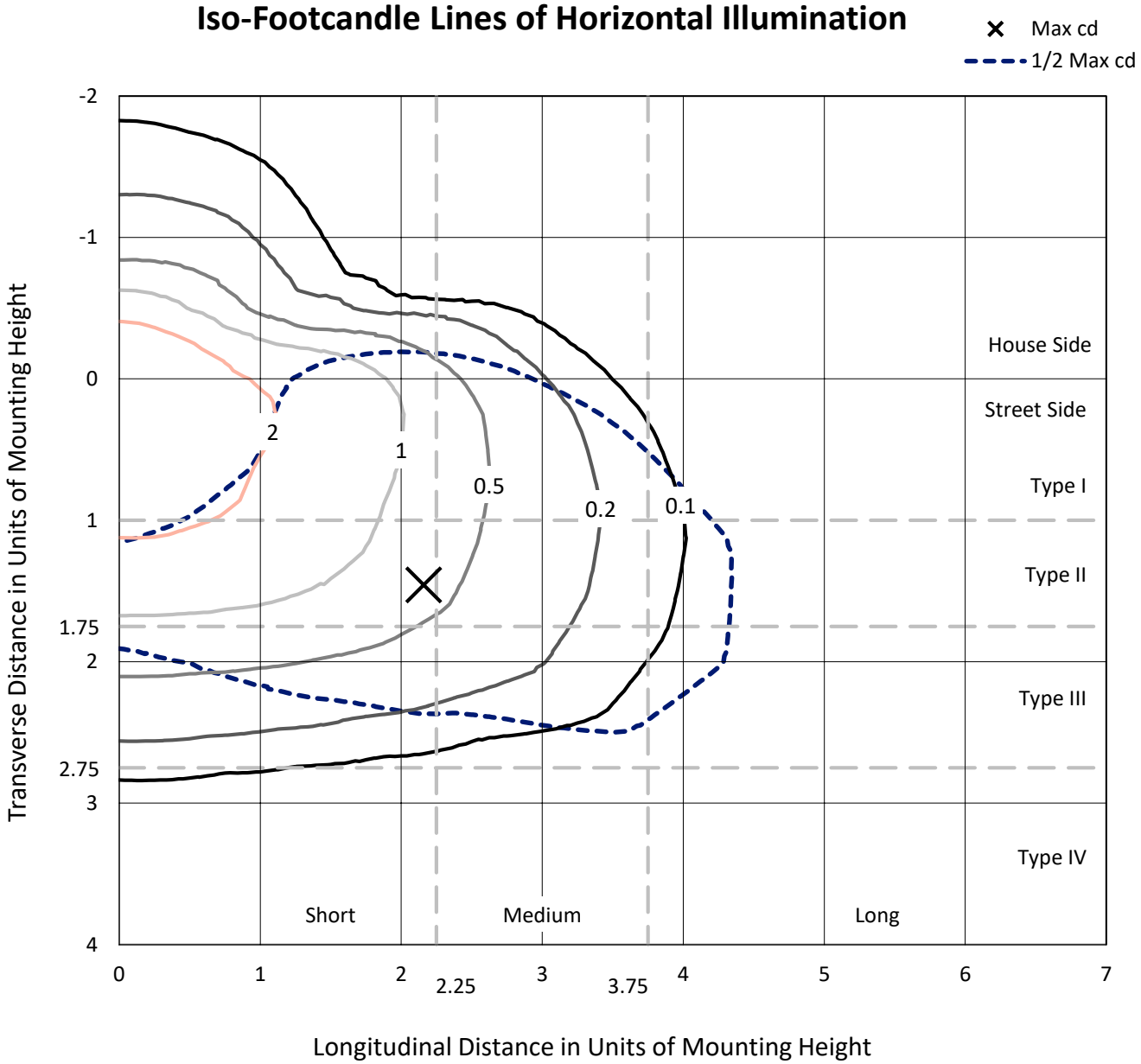
Scaled Data Report

REPORT NUMBER: P318557
CATALOG NUMBER: GLEON-SA3B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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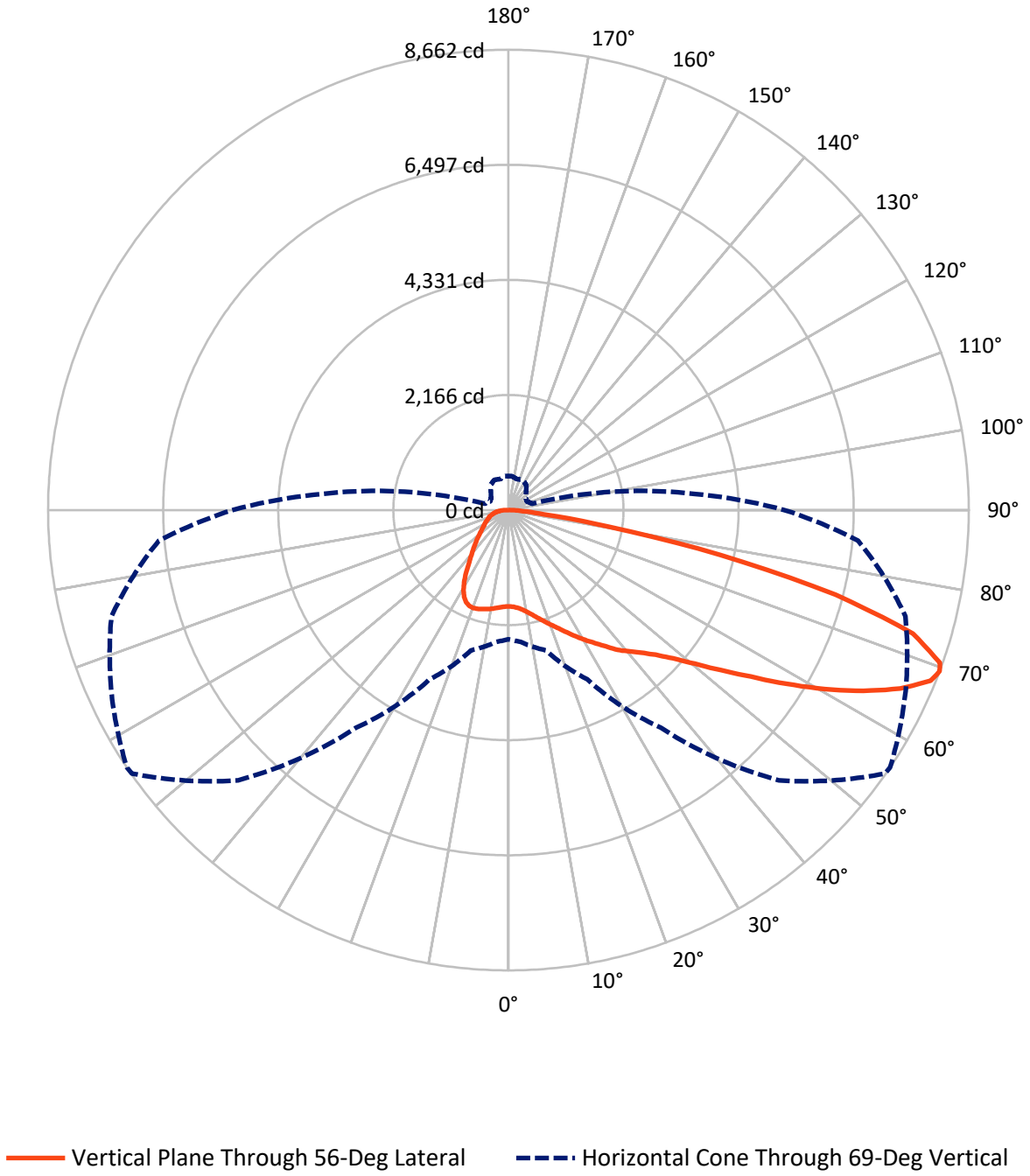
Luminous Intensity Polar Plot



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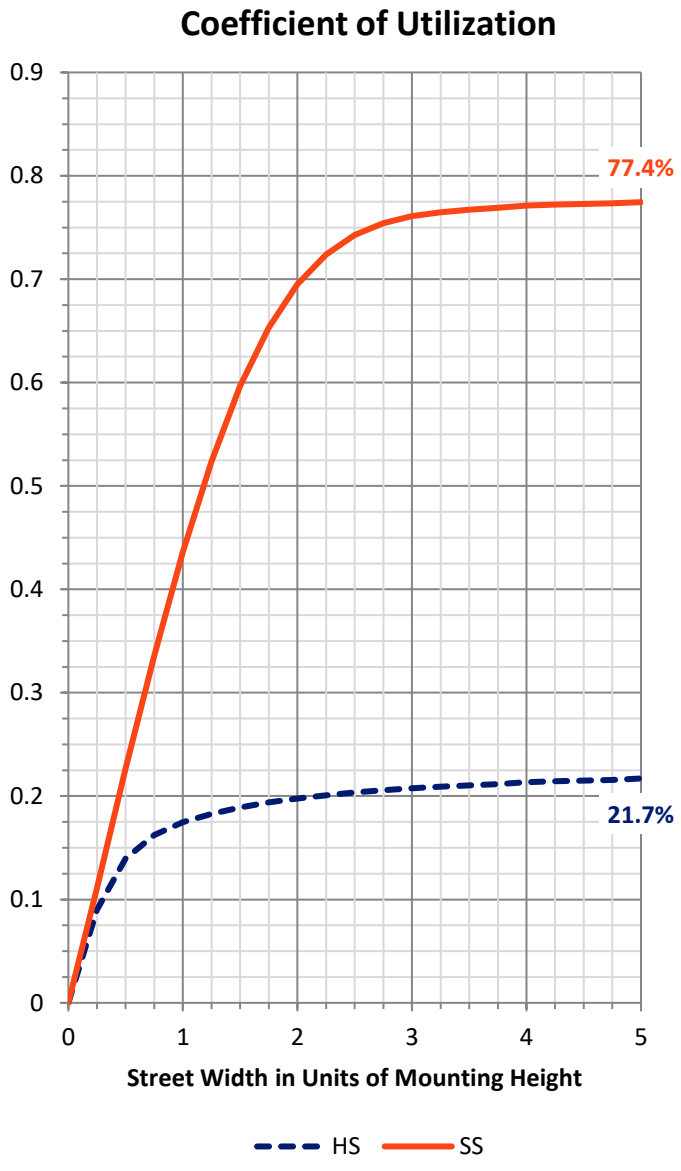
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.2	0.0	3088.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10778.9	0.0	10778.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	13867.0	0.0	13867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.3
10°-20°	572.6	4.1
20°-30°	999.5	7.2
30°-40°	1435.7	10.4
40°-50°	1986.9	14.3
50°-60°	2911.1	21.0
60°-70°	3549.2	25.6
70°-80°	1962.2	14.2
80°-90°	271.8	2.0
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°	13867.0	100.0
0°-180°	13867.0	100.0



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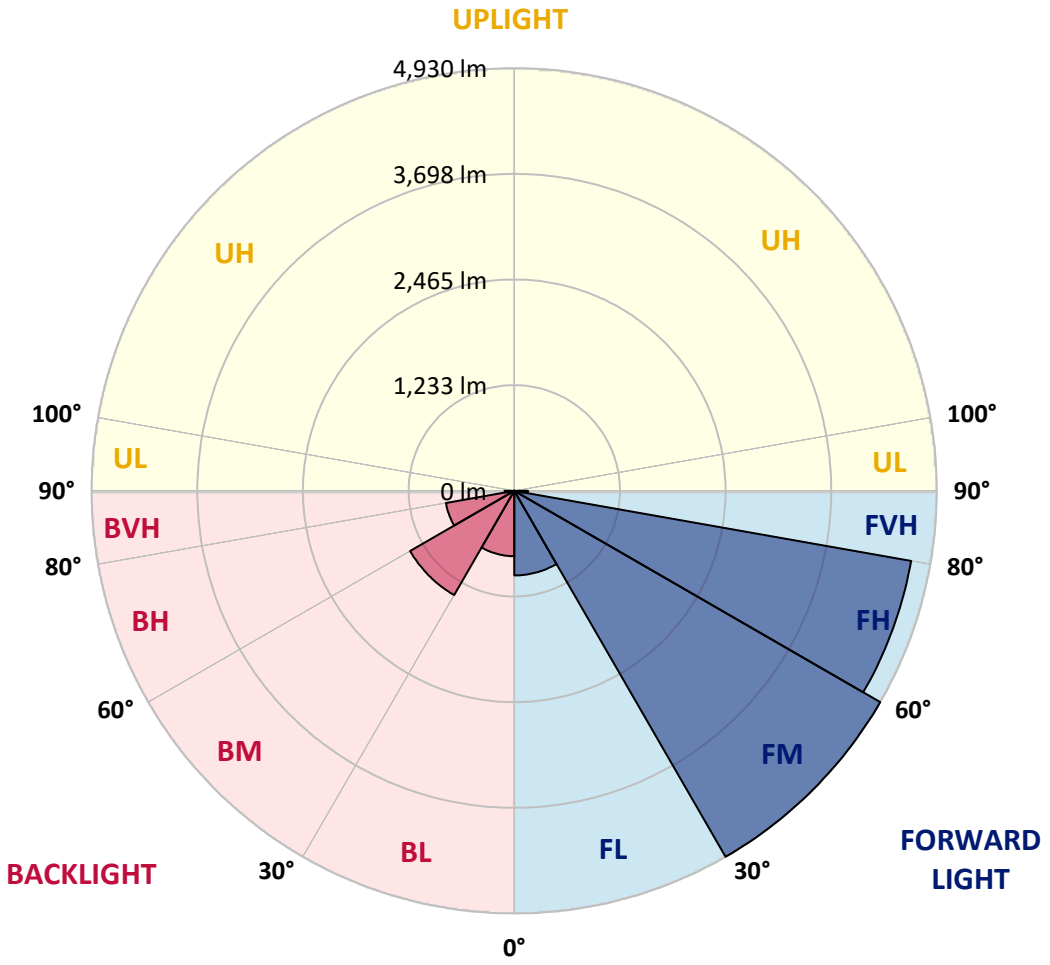
REPORT NUMBER: P318557
CATALOG NUMBER: GLEON-SA3B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	986.9	7.1			
FM	(30°-60°)	4930.2	35.6			
FH	(60°-80°)	4701.6	33.9			G2/5000
FVH	(80°-90°)	160.1	1.2			G2/225
BL	(0°-30°)	763.2	5.5	B2/1000		
BM	(30°-60°)	1403.5	10.1	B2/2500		
BH	(60°-80°)	809.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	111.7	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-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P318557
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	*1812.9*	1812.9	1812.9	1812.9
2.5°	1824.4	1826.3	1824.8	1828.7	1824.4	1827.2	1824.8	*1824.8*	1823.4	1819.1	1814.3
5°	1853.0	1856.9	1854.5	1858.3	1853.0	1854.0	1849.7	*1849.7*	1845.4	1836.3	1826.8
7.5°	1897.9	1902.2	1900.3	1904.1	1897.0	1897.0	1891.2	*1890.8*	1882.2	1867.4	1856.4
10°	1951.4	1957.2	1955.3	1961.0	1955.3	1957.2	1951.4	*1951.4*	1940.0	1919.0	1905.1
12.5°	2029.3	2036.5	2031.2	2030.7	2028.3	2032.2	2027.4	*2026.4*	2015.9	1987.3	1968.2
15°	2133.4	2141.1	2130.1	2129.1	2115.8	2114.3	2114.3	*2112.9*	2106.2	2071.8	2040.3
17.5°	2253.3	2255.7	2246.2	2230.9	2213.7	2202.7	2201.3	*2205.1*	2205.1	2165.0	2114.8
20°	2370.9	2375.2	2367.5	2350.3	2328.3	2312.1	2300.6	*2308.3*	2307.8	2260.0	2188.9
22.5°	2498.9	2508.9	2497.5	2475.5	2449.7	2431.5	2411.5	*2418.2*	2418.6	2359.9	2261.5
25°	2664.7	2655.6	2648.4	2617.4	2580.6	2561.9	2543.3	*2550.0*	2548.1	2467.4	2336.5
27.5°	2811.3	2813.2	2803.7	2770.7	2728.2	2687.1	2686.2	*2690.5*	2683.3	2579.1	2407.2
30°	2981.9	2982.8	2969.4	2939.8	2893.5	2840.5	2828.0	*2835.2*	2819.9	2685.2	2481.7
32.5°	3151.4	3156.2	3141.4	3105.6	3068.3	3003.8	2979.0	*2983.8*	2945.5	2793.6	2558.6
35°	3300.0	3306.7	3301.9	3278.0	3237.4	3182.0	3152.4	*3149.5*	3102.2	2926.4	2660.4
37.5°	3451.4	3457.6	3452.4	3432.3	3416.1	3357.3	3341.6	*3341.6*	3259.4	3062.1	2789.8
40°	3607.2	3616.7	3610.5	3582.8	3569.0	3542.2	3504.5	*3495.4*	3406.5	3225.0	3001.0
42.5°	3751.9	3764.3	3789.2	3772.9	3744.8	3748.6	3672.6	*3667.8*	3602.9	3465.8	3266.1
45°	3957.3	3975.5	4017.5	4005.1	3999.4	3978.4	3888.1	*3883.8*	3858.9	3789.7	3595.2
47.5°	4181.4	4206.2	4282.2	4284.6	4346.2	4306.5	4183.8	*4169.0*	4174.7	4177.6	3997.0
50°	4387.7	4415.0	4539.7	4598.4	4743.6	4752.2	4555.9	*4542.5*	4565.0	4630.9	4465.1
52.5°	4552.6	4587.0	4742.7	4924.2	5173.1	5243.8	5014.0	*5004.0*	5020.7	5134.4	4994.4
55°	4673.4	4710.7	4880.3	5210.8	5608.3	5733.0	5541.4	*5531.9*	5542.4	5687.1	5570.1
57.5°	4701.6	4710.7	4956.7	5403.8	5975.6	6275.2	6186.8	*6167.7*	6116.1	6242.2	6205.4
60°	4569.3	4605.6	4893.6	5471.7	6259.9	6809.7	6861.3	*6837.4*	6692.7	6795.9	6766.3
62.5°	4300.8	4365.8	4658.1	5368.5	6371.2	7246.4	7522.9	*7494.3*	7244.9	7311.8	7169.4
65°	3862.3	3890.0	4197.1	5012.6	6229.8	7525.8	8112.9	*8098.6*	7784.7	7680.1	7244.0
67.5°	3077.9	3129.9	3390.8	4268.8	5651.3	7492.8	8569.1	*8567.7*	8137.3	7816.7	6979.8
69°	*2431.5*	*2485.5*	*2733.9*	*3516.4*	*5000.6*	*7191.4*	*8645.6*	*8662.3*	*8236.6*	*7733.6*	*6602.4*
70°	1938.5	2001.1	2171.7	2961.8	4423.1	6794.0	8582.0	*8612.1*	8217.5	7596.5	6254.2
72.5°	825.0	875.6	997.0	1526.8	2695.7	5073.3	7846.8	*7960.5*	7774.7	6952.6	5168.8
75°	360.2	376.0	430.9	622.5	1196.7	2761.2	6147.1	*6357.3*	6647.8	5876.8	3850.3
77.5°	263.7	270.4	300.5	365.4	536.9	1042.8	3953.0	*4075.3*	4794.3	4276.4	2361.8
80°	204.0	208.8	232.2	268.5	350.6	421.8	1802.9	*1908.0*	2695.7	2196.5	983.6
82.5°	162.4	165.8	182.0	197.8	242.2	255.6	598.6	*664.0*	995.1	606.7	260.4
85°	151.0	154.8	160.5	144.3	155.3	150.0	258.9	*270.9*	300.5	238.4	108.9
87.5°	68.3	80.7	159.1	112.3	82.6	65.9	106.1	*110.8*	124.7	125.2	48.2
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: GLEON-SA3B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9
2.5°	1817.2	1815.8	1818.2	1812.4	1819.6	1819.1	1816.7	1817.7	1822.5	1822.0	1822.5
5°	1828.2	1827.2	1830.1	1825.8	1834.4	1837.3	1837.7	1842.0	1847.3	1848.7	1848.7
7.5°	1855.9	1855.9	1857.3	1851.6	1857.3	1856.9	1854.5	1858.8	1864.0	1864.5	1864.0
10°	1903.7	1904.1	1901.8	1886.9	1882.2	1869.3	1857.3	1857.8	1864.5	1869.7	1871.2
12.5°	1963.9	1961.9	1951.4	1924.2	1904.1	1877.9	1865.4	1865.0	1871.7	1876.0	1877.4
15°	2032.6	2027.4	2000.2	1955.7	1920.4	1894.6	1874.5	1869.7	1865.9	1861.2	1861.6
17.5°	2097.6	2085.7	2040.3	1978.7	1941.4	1907.0	1868.3	1837.3	1815.8	1803.3	1799.5
20°	2163.5	2140.1	2074.7	2000.2	1952.9	1890.3	1815.8	1752.7	1713.5	1695.4	1692.0
22.5°	2223.7	2186.0	2106.7	2022.6	1943.8	1833.9	1716.9	1625.2	1570.7	1546.3	1548.3
25°	2282.5	2229.9	2140.1	2038.4	1897.9	1734.6	1579.3	1466.6	1403.5	1376.3	1375.3
27.5°	2334.1	2274.4	2176.4	2025.5	1812.4	1593.2	1416.4	1306.5	1254.0	1230.6	1226.8
30°	2393.3	2330.3	2224.7	1976.3	1687.3	1429.8	1257.3	1179.9	1142.7	1119.3	1115.0
32.5°	2465.5	2406.2	2264.3	1886.9	1527.2	1259.2	1133.1	1079.1	1045.2	1019.0	1014.2
35°	2570.5	2506.5	2274.4	1758.9	1351.4	1124.5	1041.9	986.5	940.6	906.7	903.3
37.5°	2702.4	2632.2	2251.4	1593.2	1180.9	1037.1	965.9	897.6	837.9	790.1	782.5
40°	2892.5	2786.5	2187.9	1402.1	1055.3	969.7	891.9	814.0	740.0	684.1	673.1
42.5°	3120.9	2967.5	2090.4	1211.9	963.1	901.4	818.3	721.8	651.1	611.5	605.7
45°	3411.3	3155.7	1955.3	1045.7	872.3	833.1	739.0	650.2	606.2	577.1	572.3
47.5°	3742.8	3366.9	1813.4	910.5	795.4	769.1	675.5	618.2	583.3	560.4	556.1
50°	4150.3	3605.3	1662.9	799.7	718.0	692.2	645.4	600.5	572.8	555.1	550.8
52.5°	4609.9	3874.2	1554.5	712.3	654.0	635.4	629.6	590.9	568.5	555.1	550.8
55°	5104.8	4147.9	1437.4	638.7	598.6	603.8	619.1	591.9	576.6	560.4	554.1
57.5°	5600.2	4430.7	1307.0	576.6	554.6	580.4	611.9	593.8	580.9	565.1	559.4
60°	5991.9	4609.9	1104.9	524.5	519.7	554.6	594.7	579.5	562.7	563.2	562.3
62.5°	6174.9	4600.3	881.8	478.2	484.9	519.7	567.0	557.0	543.2	561.8	563.2
65°	6072.1	4371.0	686.5	436.1	447.6	483.4	538.4	546.0	550.8	586.6	591.4
67.5°	5641.3	3924.8	531.7	399.4	413.7	458.6	541.2	594.7	601.0	638.7	638.2
69°	*5195.6*	*3506.4*	*461.9*	*380.3*	*397.0*	*464.8*	*578.5*	*625.8*	*602.4*	*642.5*	*636.8*
70°	4822.0	3175.3	424.7	367.4	389.3	475.8	603.3	625.3	595.2	629.6	620.1
72.5°	3713.7	2284.4	360.2	343.5	363.5	455.3	610.5	611.5	578.5	585.2	569.0
75°	2547.1	1443.6	314.3	311.0	324.4	410.4	587.6	584.2	535.0	525.5	512.1
77.5°	1404.5	733.3	267.0	279.9	289.0	363.5	534.1	529.3	488.7	468.6	463.9
80°	541.7	321.0	225.5	248.9	254.6	314.8	468.2	463.9	429.9	404.1	397.0
82.5°	204.5	168.2	186.3	215.4	213.5	259.9	396.5	394.1	361.1	323.4	311.9
85°	94.6	100.8	147.6	177.7	163.9	192.5	317.2	321.5	281.4	236.5	236.5
87.5°	40.1	56.4	104.6	134.2	110.4	129.9	232.6	222.1	204.0	141.4	132.8
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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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

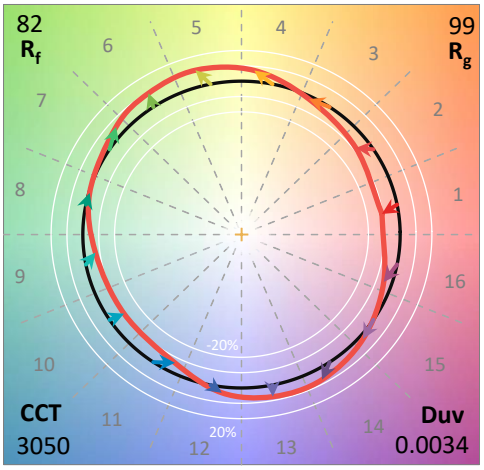
Test Information

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

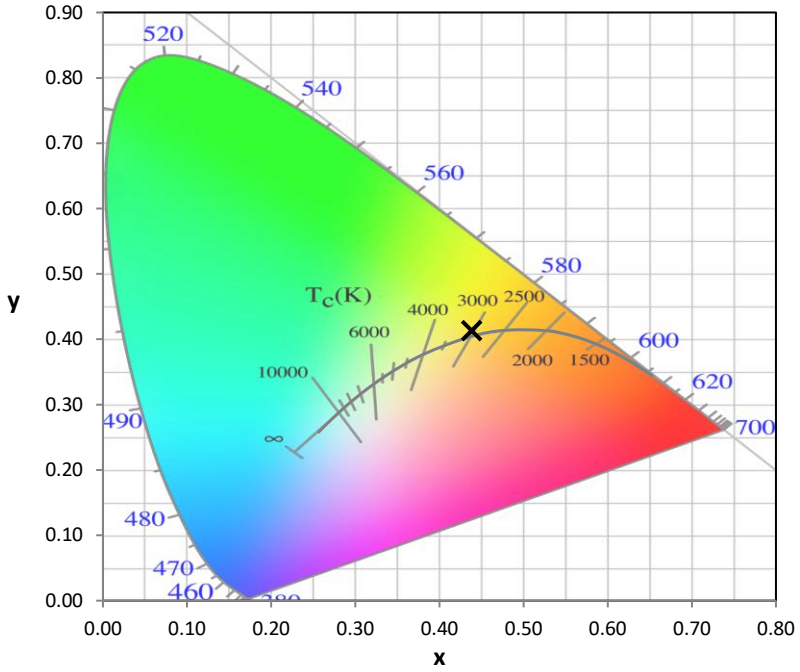
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

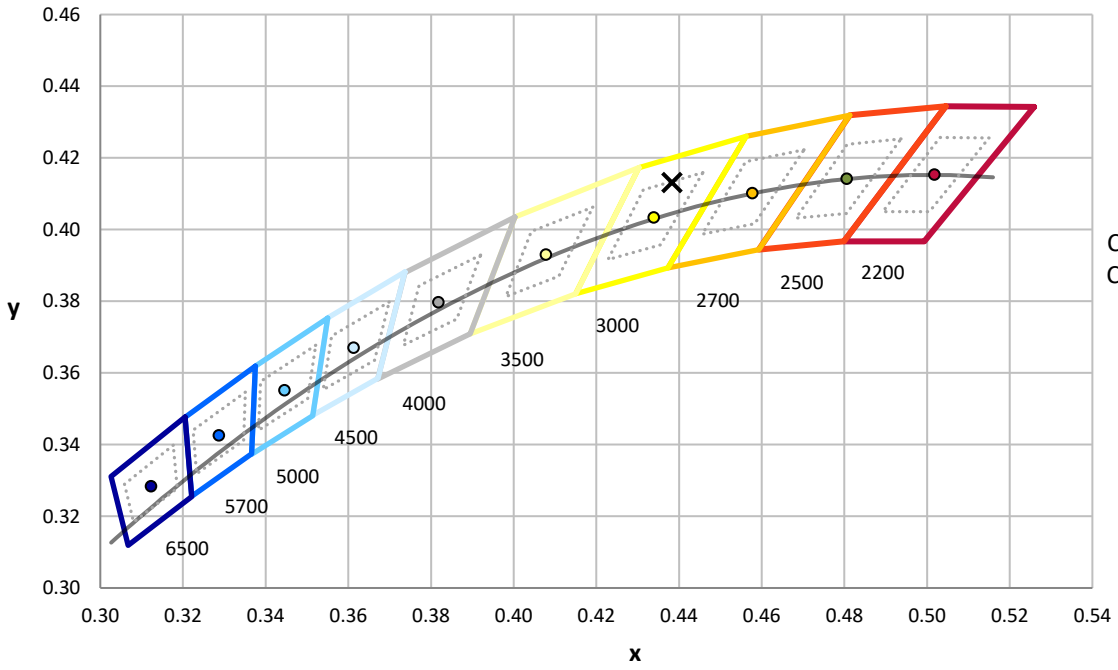
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

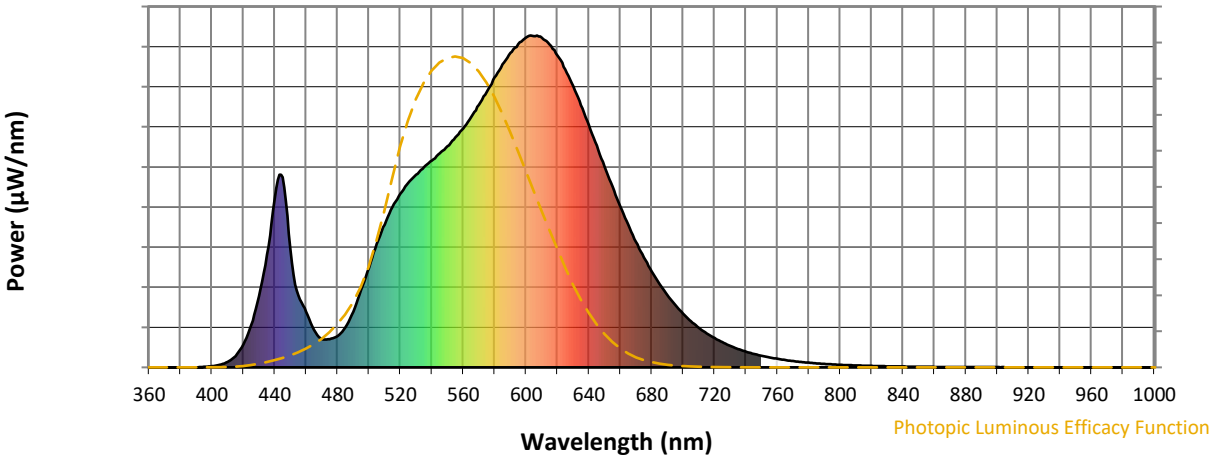


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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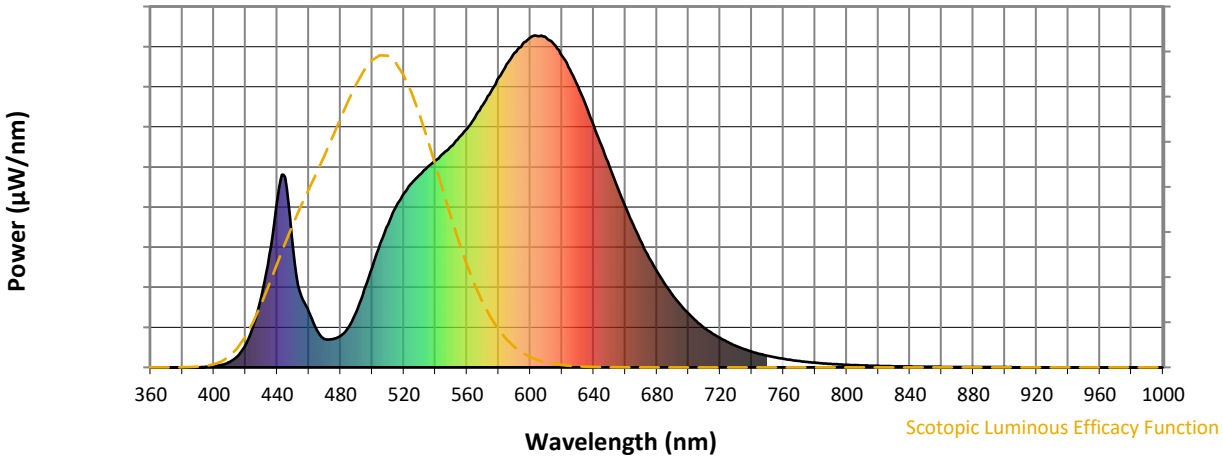
Scotopic Flux vs. Wavelength



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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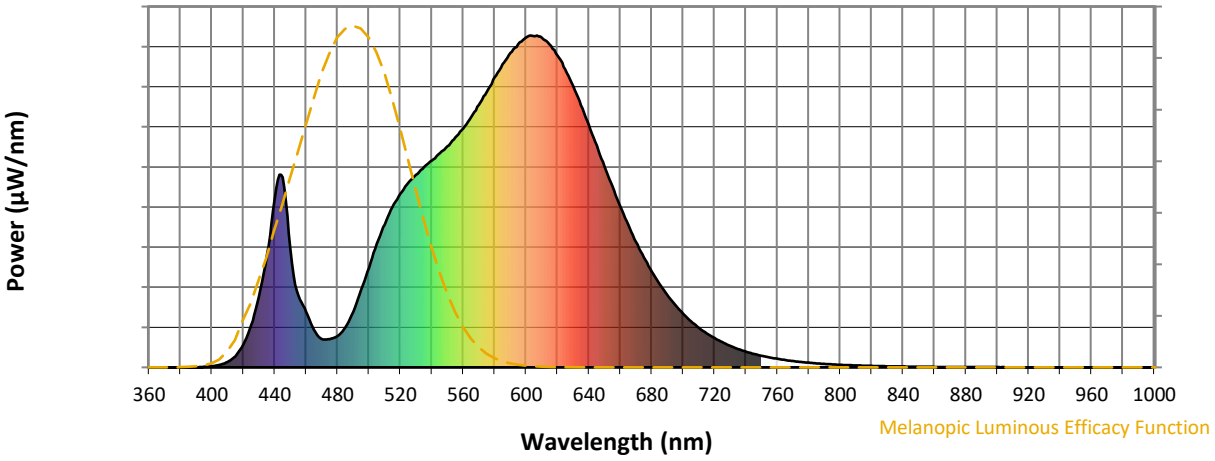
Melanopic Flux vs. Wavelength



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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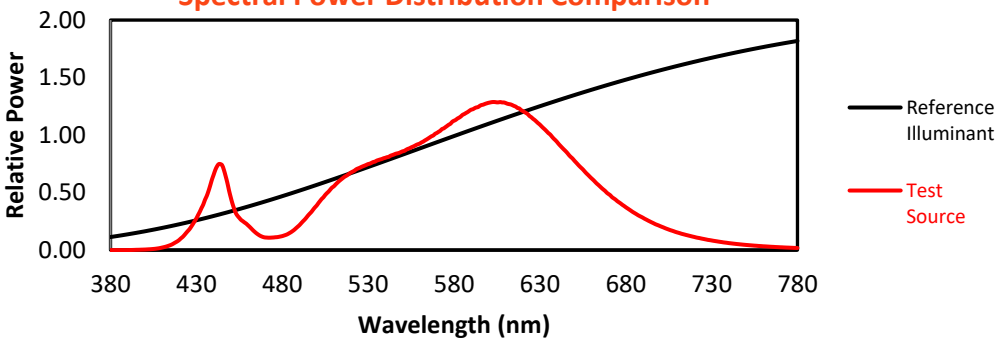
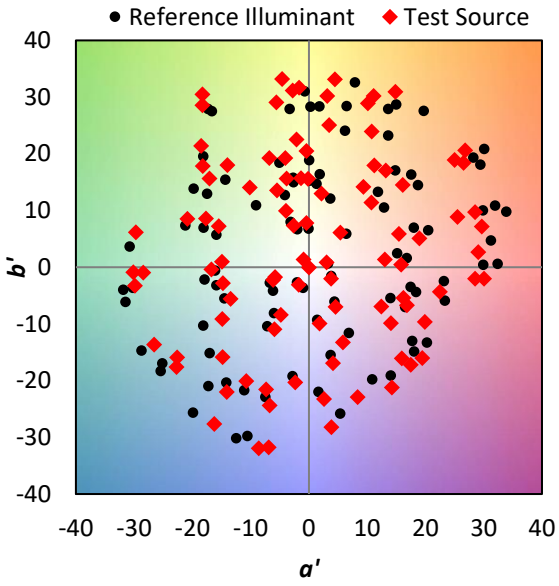
Summary

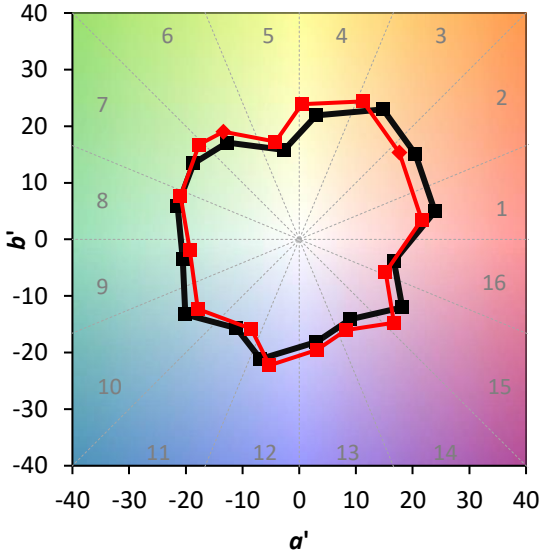
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

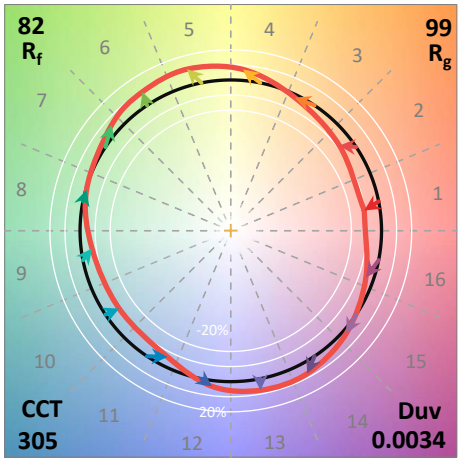
Spectral Power Distribution Comparison

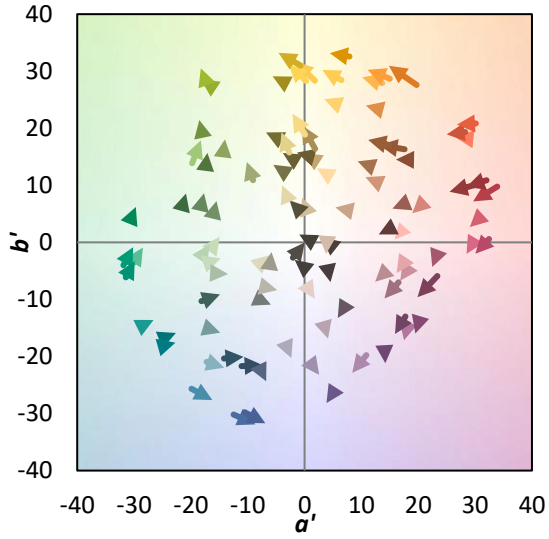


Color Vector Graphics









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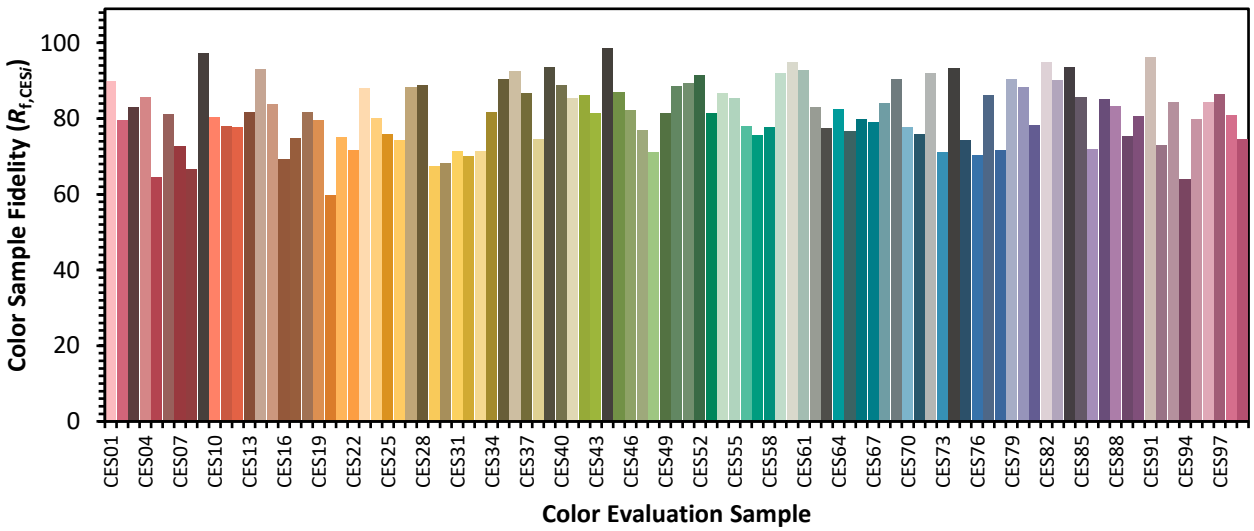
Individual Sample Fidelity Index ($R_{f,i}$)

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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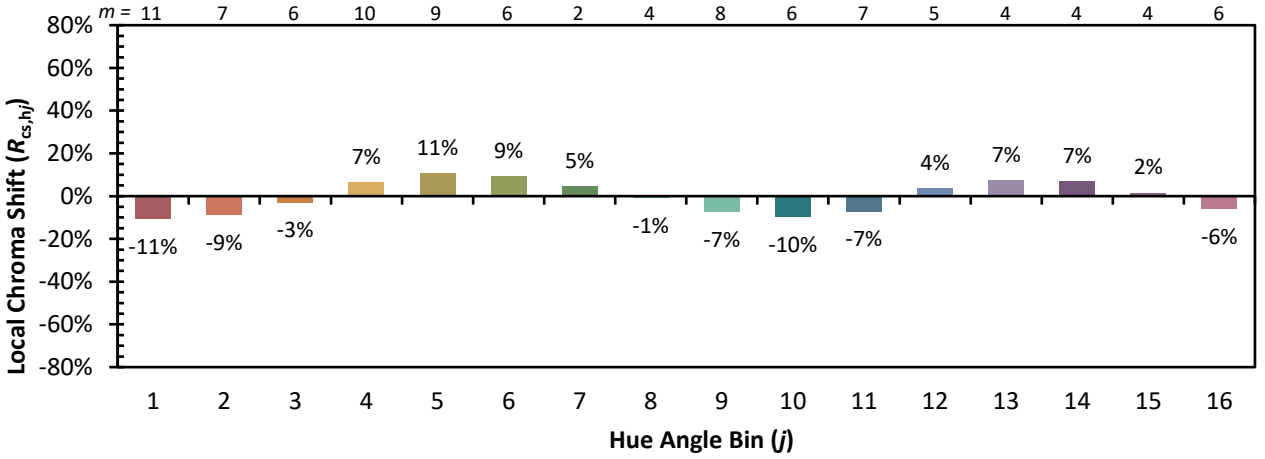
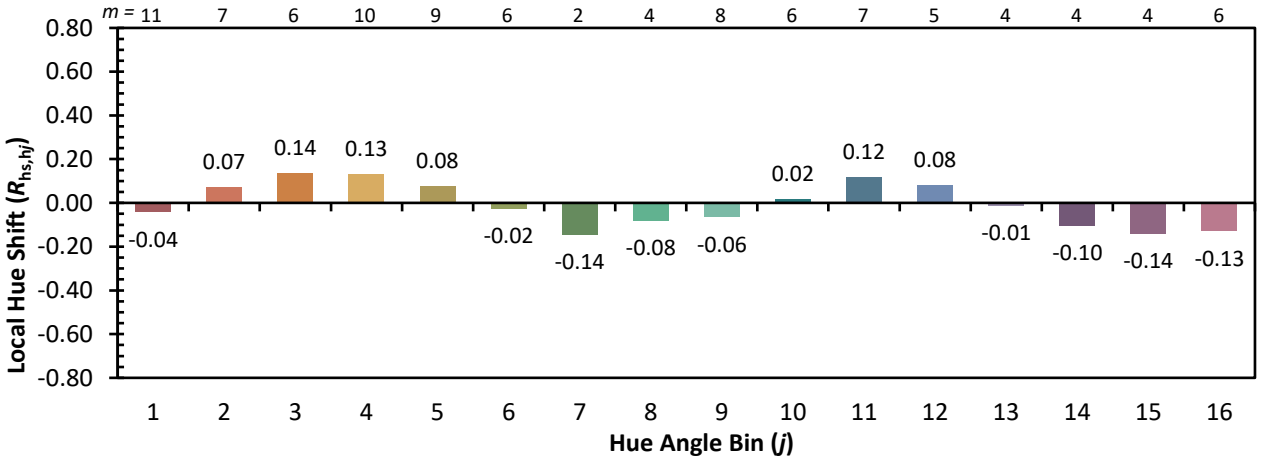
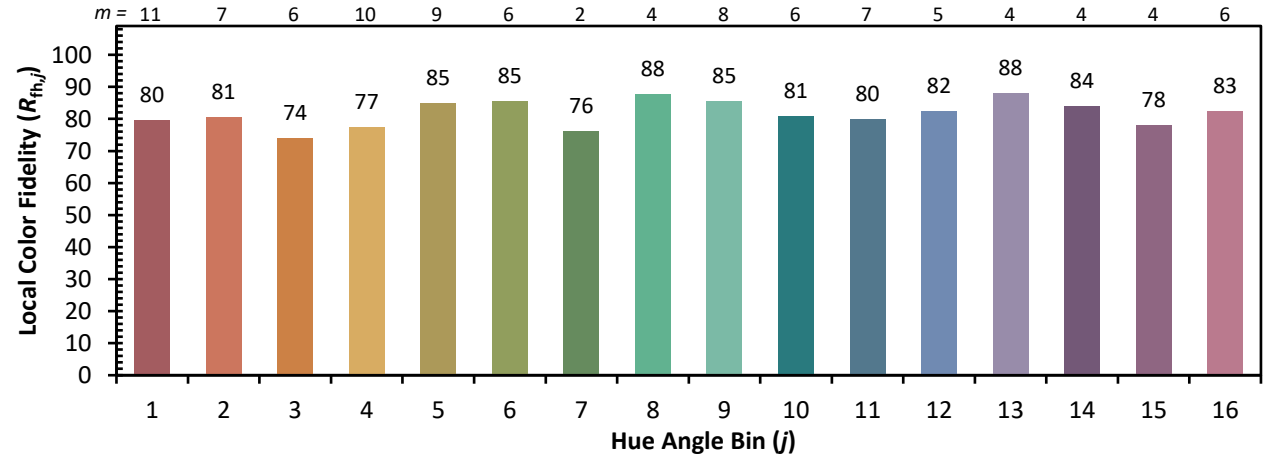
Color Rendition by Hue-Angle Bin







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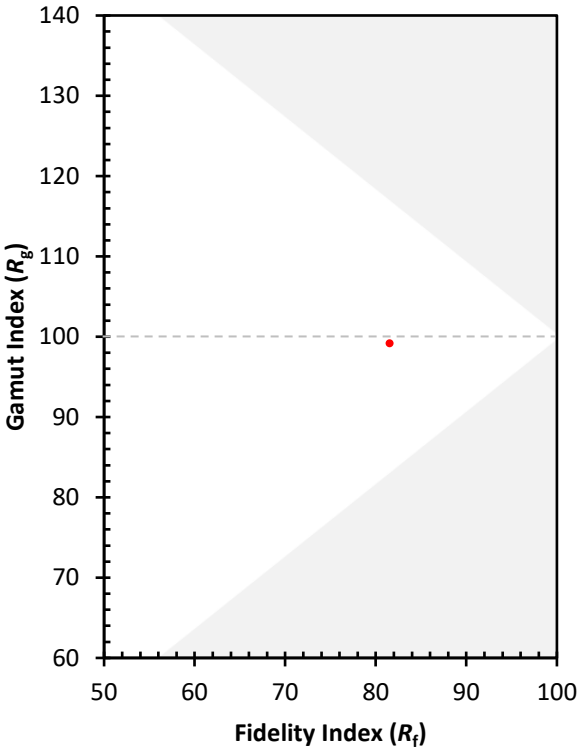
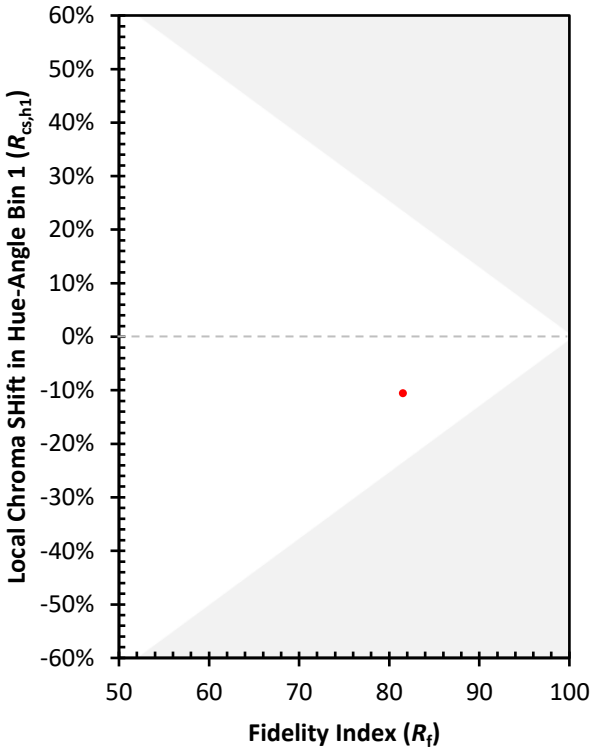
Measure Comparisons





(END OF REPORT)