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: P323048

Luminaire Tested: **GLEON-SA4C-830-U-T4W-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:	P323048
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4C-830-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16432 lumens
Efficiency:	N/A
Efficacy:	73.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G4

Input Watts (W):	225
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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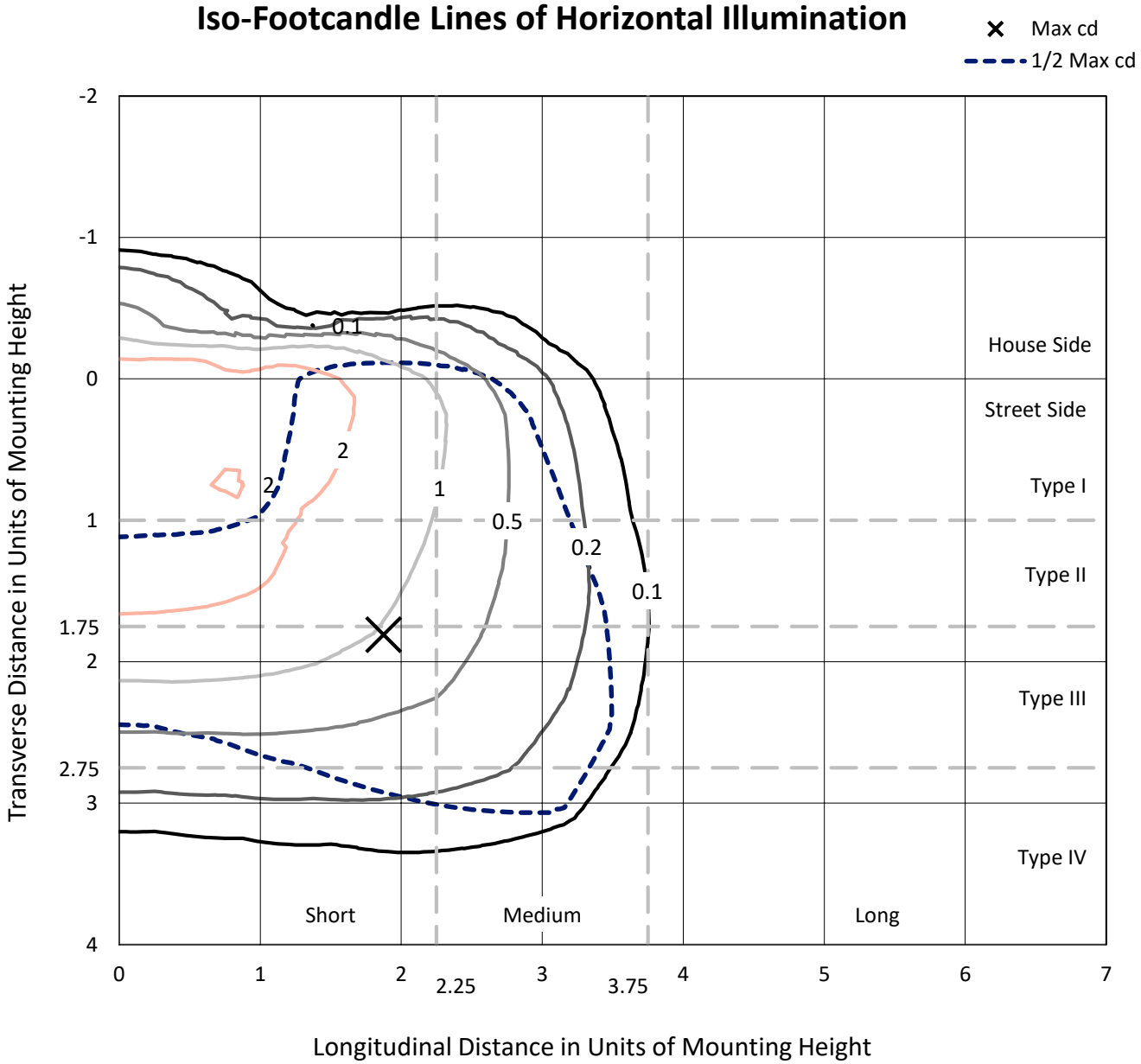
Scaled Data Report

REPORT NUMBER: P323048
CATALOG NUMBER: GLEON-SA4C-830-U-T4W-HSS

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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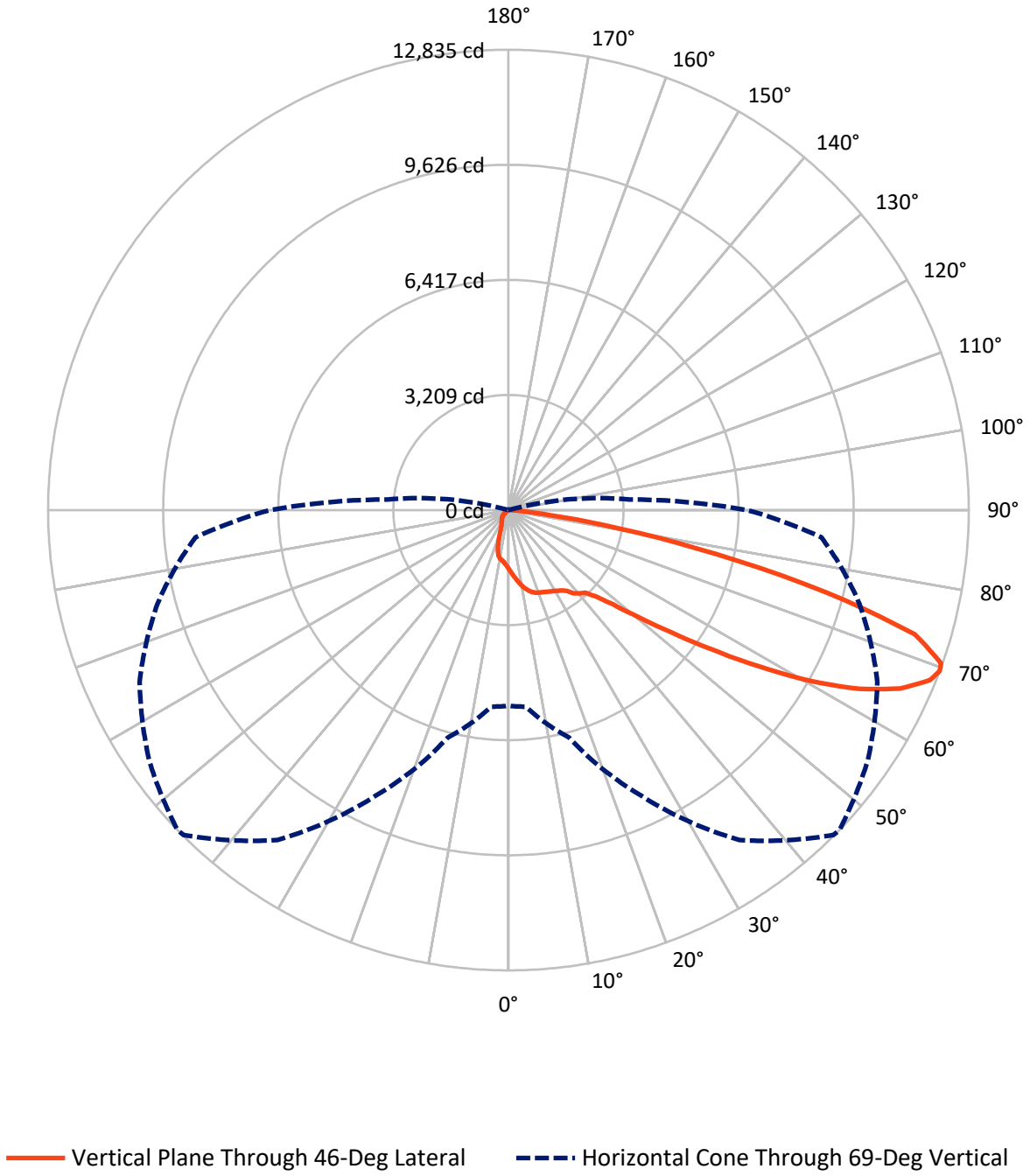
Luminous Intensity Polar Plot



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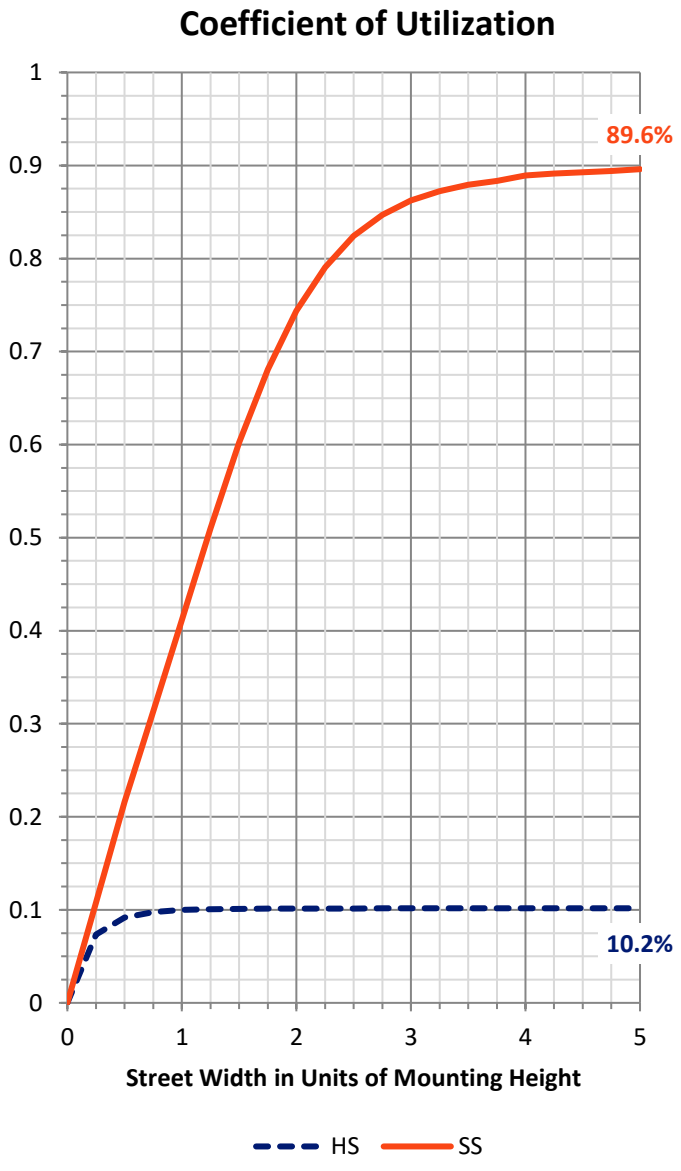
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.4	0.0	1686.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14745.6	0.0	14745.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	16432.0	0.0	16432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	1.0
10°-20°	497.2	3.0
20°-30°	781.9	4.8
30°-40°	1121.2	6.8
40°-50°	1937.9	11.8
50°-60°	3828.4	23.3
60°-70°	5350.6	32.6
70°-80°	2584.9	15.7
80°-90°	166.1	1.0
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°	16432.0	100.0
0°-180°	16432.0	100.0



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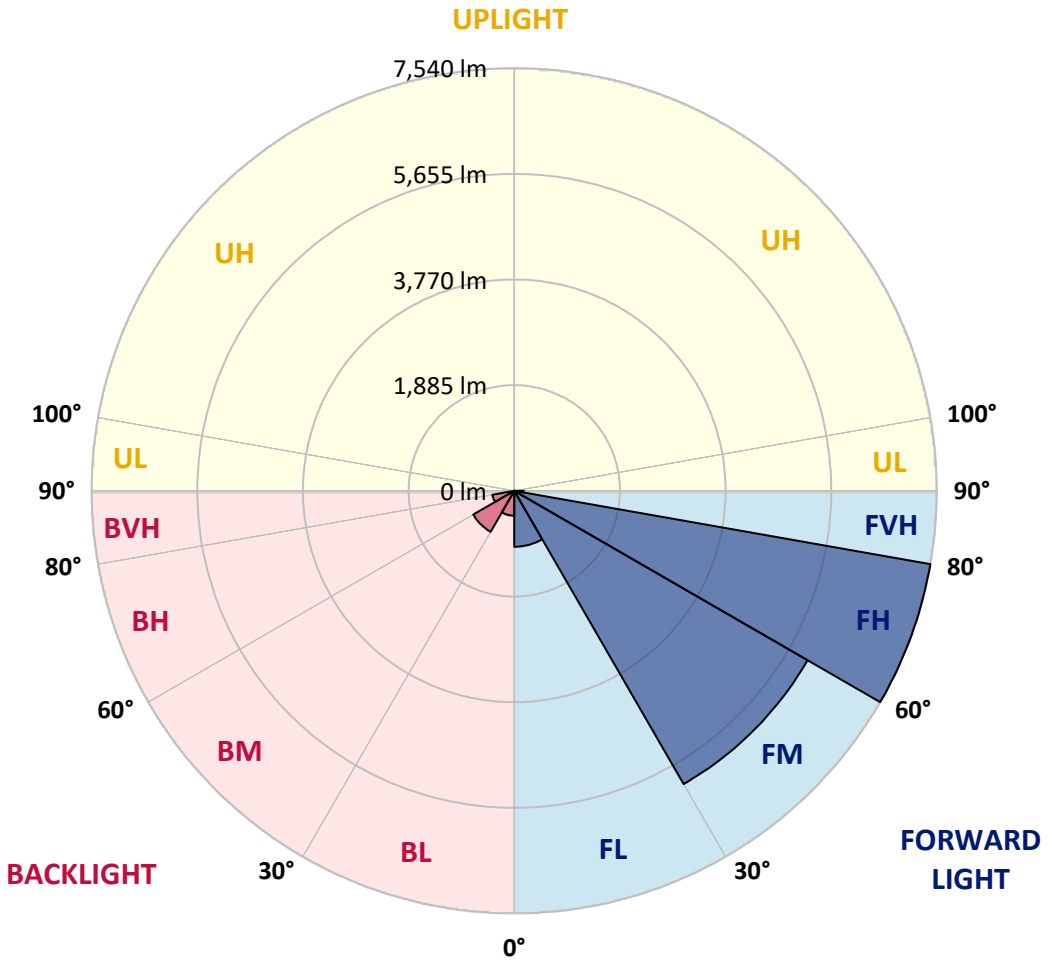
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	998.4	6.1			
FM	(30°-60°)	6042.4	36.8			
FH	(60°-80°)	7540.0	45.9			G4/12000
FVH	(80°-90°)	164.7	1.0			G2/225
BL	(0°-30°)	444.5	2.7	B1/500		
BM	(30°-60°)	845.1	5.1	B1/1000		
BH	(60°-80°)	395.4	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G4
Type IV Short



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REPORT NUMBER: P323048
CATALOG NUMBER: GLEON-SA4C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	*1646.4*	1646.4	1646.4	1646.4	1646.4
2.5°	1829.0	1826.7	1815.9	1811.3	1785.1	1769.7	*1763.5*	1744.3	1716.5	1688.8	1658.0
5°	2037.0	2036.3	2016.2	1997.0	1947.7	1901.4	*1893.0*	1848.3	1785.9	1727.3	1668.8
7.5°	2249.7	2239.7	2219.6	2182.6	2111.0	2037.0	*2030.1*	1966.9	1878.3	1793.6	1709.6
10°	2430.0	2423.8	2397.6	2341.4	2257.4	2173.4	*2164.9*	2087.1	1987.0	1882.9	1775.9
12.5°	2570.2	2565.6	2530.9	2460.8	2371.4	2284.3	*2272.8*	2203.5	2096.4	1980.0	1853.7
15°	2655.7	2653.4	2611.0	2536.3	2448.5	2372.9	*2362.9*	2302.1	2202.7	2081.0	1938.4
17.5°	2675.7	2676.5	2632.6	2557.1	2484.7	2430.7	*2423.0*	2376.8	2293.6	2172.6	2023.2
20°	2631.0	2640.3	2601.0	2535.5	2490.8	2462.3	*2456.2*	2428.4	2358.3	2244.3	2091.0
22.5°	2567.9	2572.5	2545.5	2501.6	2483.1	2488.5	*2485.4*	2470.0	2410.7	2305.9	2158.0
25°	2529.3	2529.3	2513.2	2476.2	2488.5	2521.6	*2522.4*	2519.3	2472.3	2381.4	2239.7
27.5°	2527.8	2523.2	2504.7	2477.0	2510.9	2561.7	*2564.8*	2585.6	2556.3	2473.1	2341.4
30°	2589.4	2584.0	2544.8	2508.5	2551.7	2606.4	*2614.1*	2659.6	2644.9	2572.5	2454.6
32.5°	2733.5	2714.3	2627.2	2567.9	2600.2	2665.7	*2675.7*	2748.2	2771.3	2695.0	2564.0
35°	2930.7	2869.9	2744.3	2680.4	2683.4	2752.0	*2761.2*	2867.6	2936.1	2807.5	2648.8
37.5°	3202.7	3172.7	2968.5	2797.5	2811.3	2915.3	*2942.3*	3057.9	3038.6	2869.1	2745.1
40°	3799.0	3752.0	3534.8	3125.7	2933.8	3047.9	*3056.3*	3118.0	3119.5	3008.6	2945.4
42.5°	4611.1	4591.8	4363.0	3721.2	3175.0	3136.5	*3151.9*	3255.9	3372.2	3302.9	3299.8
45°	5510.2	5500.2	5257.5	4511.7	3662.7	3426.9	*3446.2*	3585.6	3808.3	3823.7	3921.5
47.5°	6233.6	6229.0	6089.5	5393.8	4409.2	3919.2	*3925.4*	4073.3	4464.7	4658.1	4814.5
50°	6893.1	6915.4	6805.3	6348.4	5426.2	4690.4	*4675.8*	4774.4	5403.1	5719.7	5913.9
52.5°	7809.9	7841.5	7532.6	7239.0	6493.2	5647.3	*5635.8*	5739.0	6531.0	6768.3	6803.0
55°	8619.7	8565.7	8321.5	8236.7	7794.5	6829.2	*6826.1*	6917.0	7621.9	7722.9	7786.8
57.5°	8977.1	8956.3	9074.2	9268.4	9157.4	8226.0	*8219.0*	8149.7	8598.1	8608.9	8805.3
60°	9202.9	9228.3	9589.6	10188.3	10464.9	9729.1	*9684.4*	9261.4	9530.3	9506.4	9716.8
62.5°	9033.4	9083.5	9733.7	10731.4	11443.3	11041.1	*10978.0*	10279.9	10326.9	10244.5	10440.2
65°	8133.5	8211.3	9276.8	10629.0	11928.7	12066.6	*12002.6*	11179.0	10959.5	10823.9	10715.2
67.5°	6604.2	6650.4	7762.9	9737.6	11709.9	12678.3	*12665.2*	11967.2	11437.1	10726.0	9883.2
69°	*5457.8*	*5503.2*	*6574.1*	*8799.2*	*11228.4*	*12809.3*	*12834.7*	*12219.9*	*11346.2*	*10131.3*	*8756.8*
70°	4622.6	4671.2	5668.9	7994.8	10669.8	12748.4	*12793.9*	12196.0	11085.8	9442.5	7768.3
72.5°	2424.6	2466.2	3490.1	5507.9	8698.2	11706.0	*11843.9*	11165.2	9397.0	6857.7	4593.3
75°	762.0	785.8	1362.9	2879.1	5955.5	9101.9	*9133.5*	8758.3	6672.8	3772.1	1913.0
77.5°	290.5	283.5	453.8	1060.9	3010.9	5731.3	*5924.7*	5473.2	3501.6	1333.6	441.5
80°	156.4	157.2	235.8	439.1	1288.2	2945.4	*3108.7*	2652.6	1244.3	416.0	101.7
82.5°	67.8	70.9	132.5	232.7	591.7	1086.3	*1168.0*	972.3	475.4	279.7	37.8
85°	14.6	16.2	63.9	126.4	241.1	305.1	*319.7*	315.1	302.8	217.3	14.6
87.5°	0.0	0.0	28.5	45.5	60.9	69.3	*60.9*	79.4	167.2	146.4	7.7
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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Scaled Data Report

REPORT NUMBER: P323048
CATALOG NUMBER: GLEON-SA4C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4
2.5°	1648.0	1634.1	1610.2	1584.0	1565.5	1546.3	1530.9	1523.9	1516.2	1510.8	1517.8
5°	1644.9	1617.9	1571.7	1527.0	1494.6	1468.5	1446.9	1438.4	1429.9	1423.8	1423.0
7.5°	1671.8	1634.1	1563.2	1497.7	1447.7	1412.2	1382.9	1370.6	1360.6	1356.0	1352.1
10°	1723.5	1674.9	1580.2	1494.6	1429.9	1369.8	1306.7	1258.1	1226.5	1211.9	1206.5
12.5°	1790.5	1729.6	1612.5	1510.8	1416.8	1301.3	1167.2	1051.6	976.9	952.3	937.6
15°	1869.1	1793.6	1654.9	1531.6	1369.1	1158.0	930.7	779.7	710.3	696.5	681.1
17.5°	1944.6	1861.4	1705.7	1535.5	1264.3	925.3	681.8	579.4	552.4	561.6	564.0
20°	2010.8	1928.4	1755.8	1501.6	1074.0	694.2	527.7	502.3	512.3	530.1	533.1
22.5°	2077.9	1993.1	1802.1	1412.2	830.5	527.0	475.4	481.5	491.5	509.3	512.3
25°	2159.5	2071.7	1845.2	1248.1	623.3	448.4	451.5	460.7	470.7	486.9	488.5
27.5°	2253.5	2171.1	1873.7	1034.7	462.3	412.2	422.2	436.1	446.1	461.5	464.6
30°	2378.3	2302.1	1882.9	813.6	387.5	379.8	384.4	401.4	416.0	429.9	432.2
32.5°	2495.4	2431.5	1852.1	614.0	359.0	349.8	349.8	359.8	376.7	389.8	392.9
35°	2603.3	2561.7	1753.5	449.2	337.5	322.0	314.3	314.3	325.1	335.9	339.0
37.5°	2745.8	2744.3	1594.0	358.3	316.6	298.9	282.8	270.4	266.6	268.9	270.4
40°	2990.1	2992.4	1386.0	321.3	298.9	275.0	250.4	228.0	207.2	200.3	199.5
42.5°	3371.4	3336.8	1168.0	303.6	283.5	250.4	213.4	183.4	151.0	141.0	140.2
45°	3977.0	3771.3	936.9	287.4	267.3	222.7	176.4	135.6	109.4	101.7	101.7
47.5°	4859.1	4342.2	725.8	269.7	245.8	191.1	133.3	97.8	80.1	76.3	77.0
50°	5771.3	4901.5	556.3	247.3	219.6	157.9	98.6	70.9	60.9	60.9	61.6
52.5°	6580.3	5311.4	433.8	223.4	187.2	124.0	74.7	55.5	50.8	50.1	50.8
55°	7337.6	5575.7	332.1	195.7	148.7	92.5	57.0	45.5	42.4	40.8	40.1
57.5°	8068.0	5706.6	248.9	157.9	107.9	67.0	45.5	38.5	35.4	33.1	32.4
60°	8554.2	5600.3	171.0	116.3	74.7	48.5	37.8	33.1	29.3	27.0	26.2
62.5°	8828.4	5309.9	110.2	84.0	53.2	36.2	30.0	27.7	22.3	20.0	20.0
65°	8717.5	4830.6	77.0	60.1	38.5	27.0	22.3	22.3	16.2	13.1	12.3
67.5°	7725.2	4081.0	58.6	44.7	27.7	20.0	16.9	19.3	10.0	6.2	6.2
69°	*6646.6*	*3382.2*	*50.1*	*37.0*	*23.1*	*16.2*	*14.6*	*17.7*	*6.9*	*4.6*	*3.9*
70°	5776.7	2917.6	45.5	32.4	19.3	13.9	13.1	16.9	6.9	3.9	3.1
72.5°	3456.2	1627.2	34.7	23.1	12.3	10.8	10.8	19.3	6.9	3.9	3.1
75°	1396.8	573.2	25.4	16.2	9.2	9.2	13.1	24.7	6.2	3.1	2.3
77.5°	316.6	125.6	14.6	10.0	6.2	9.2	15.4	19.3	3.9	1.5	0.0
80°	77.0	30.8	9.2	6.2	3.9	6.9	11.6	10.8	0.8	0.0	0.0
82.5°	25.4	10.8	3.9	3.1	0.8	2.3	5.4	3.1	0.0	0.0	0.0
85°	10.8	6.2	1.5	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	6.9	2.3	0.0	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

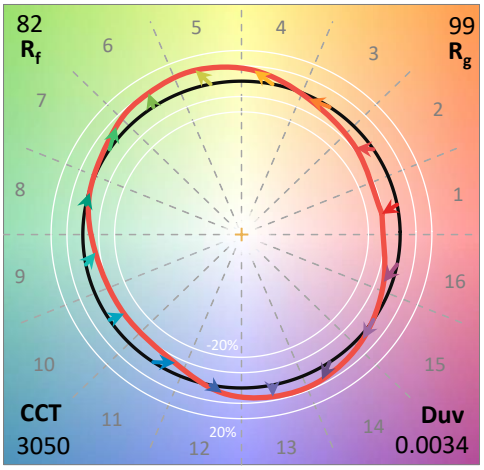
Test Information

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

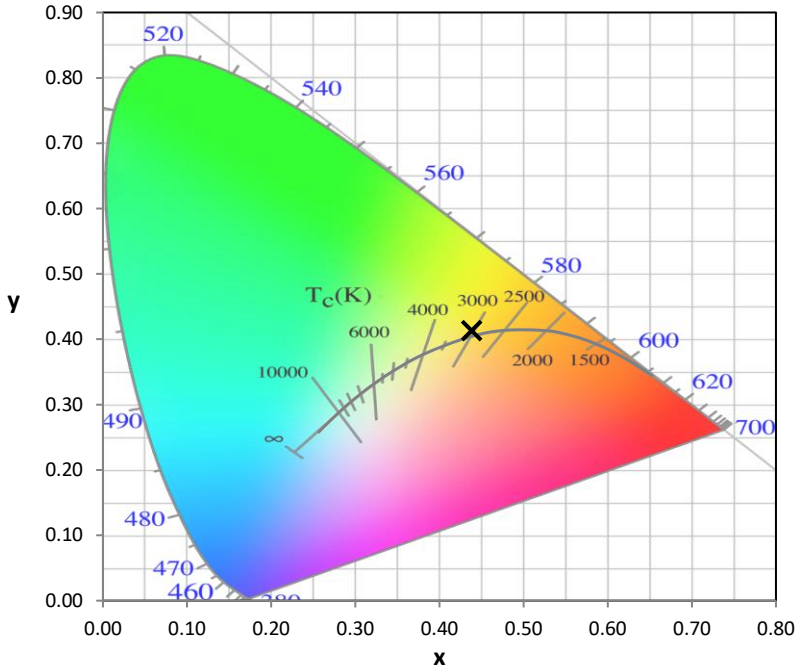
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

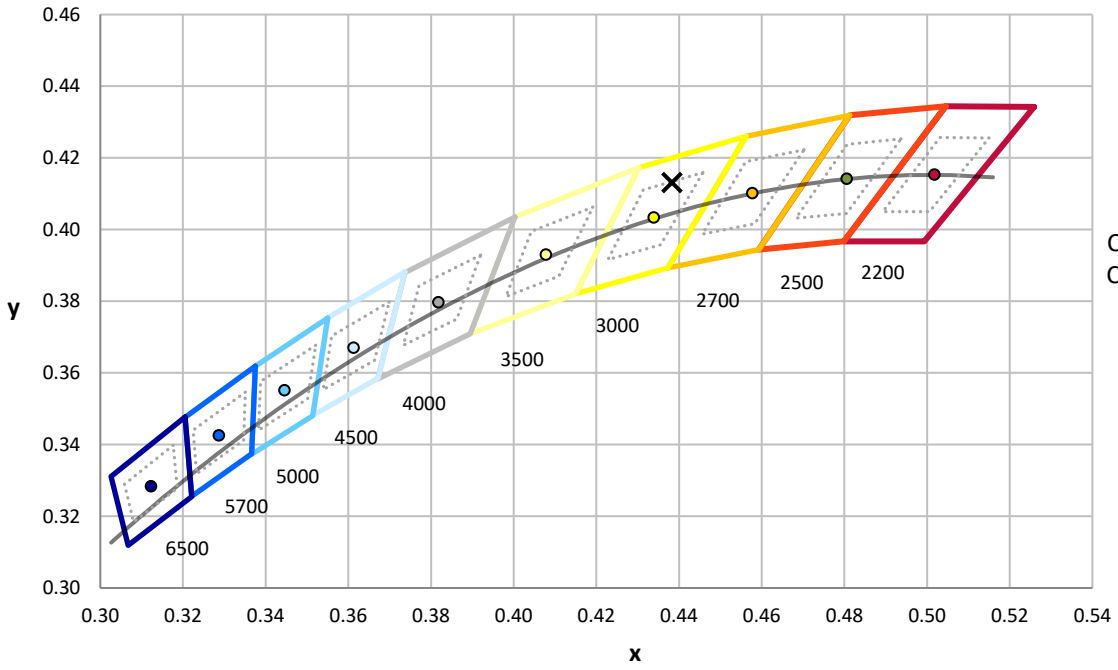
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

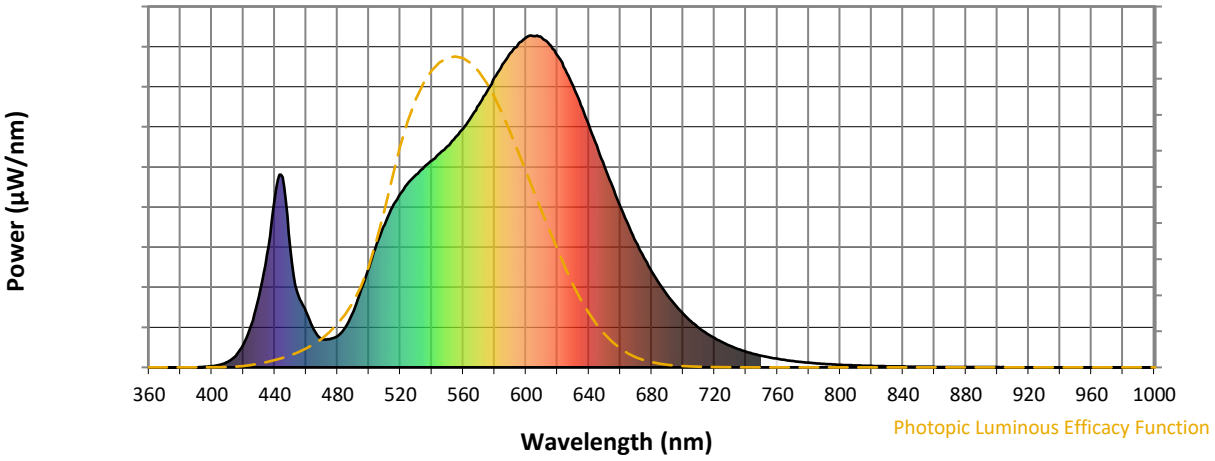


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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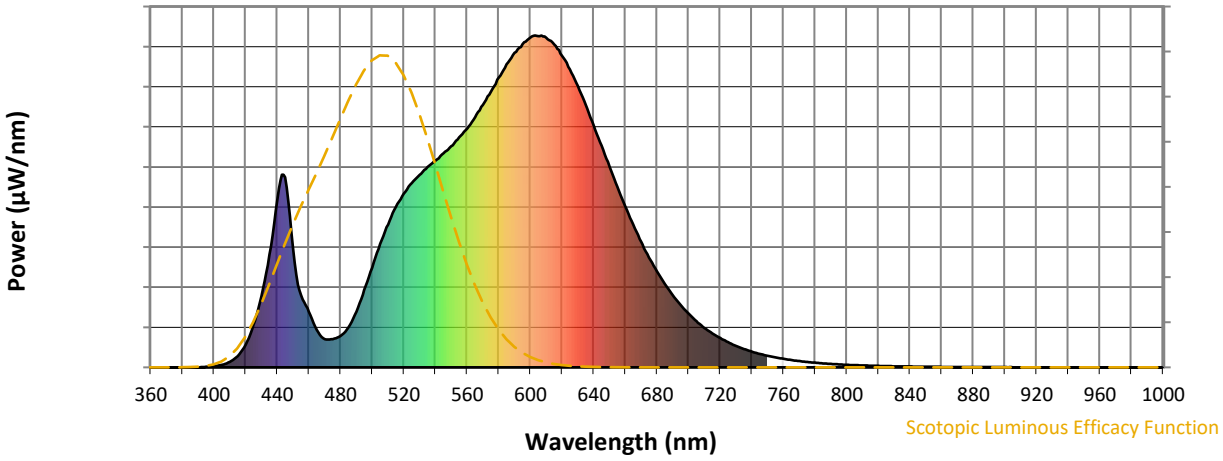
Scotopic Flux vs. Wavelength



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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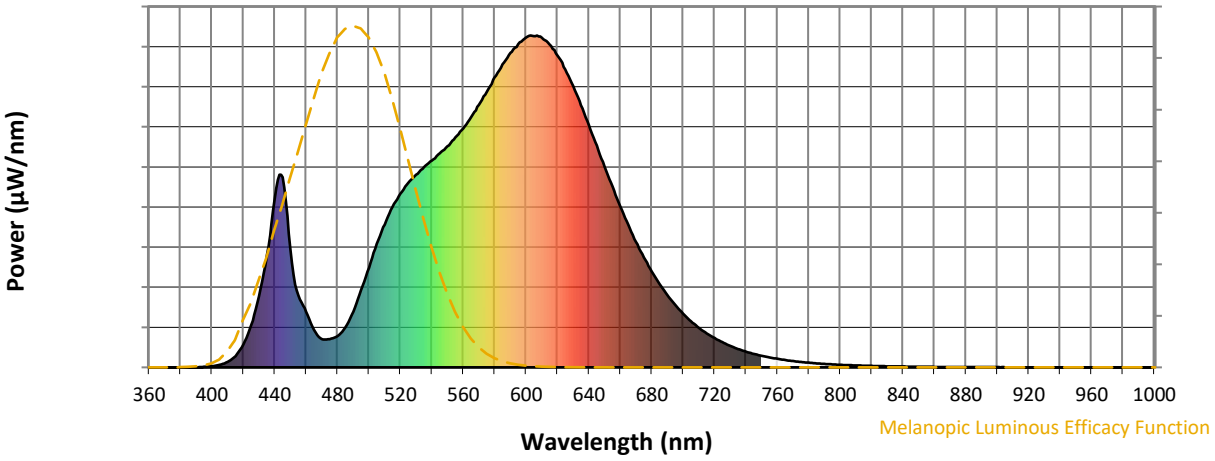
Melanopic Flux vs. Wavelength



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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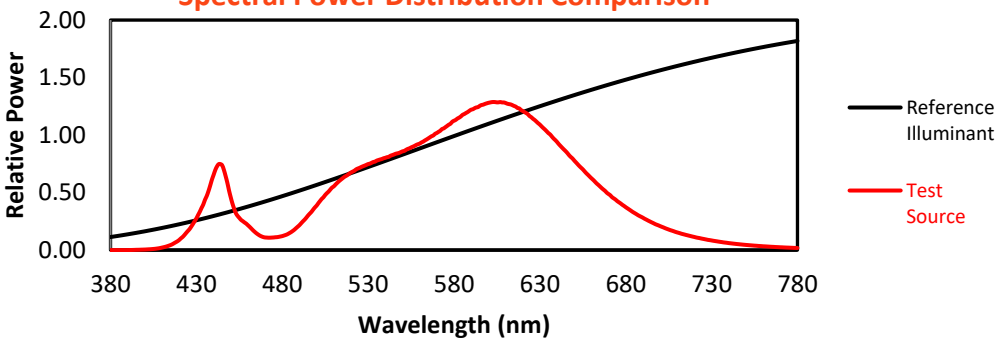
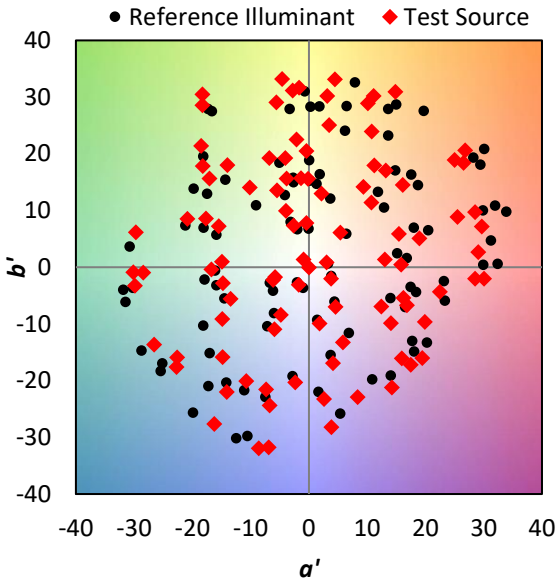
Summary

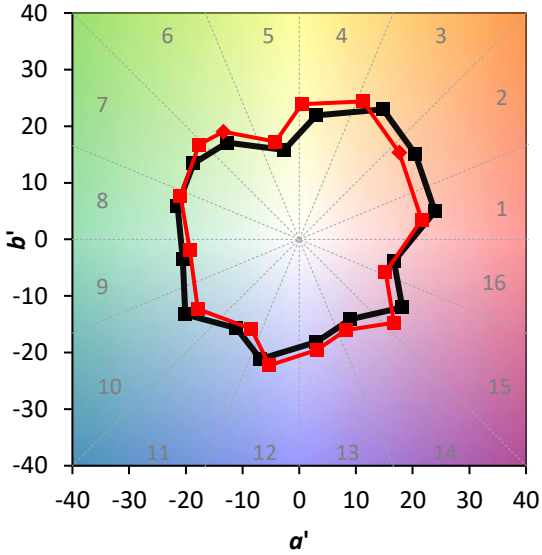
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

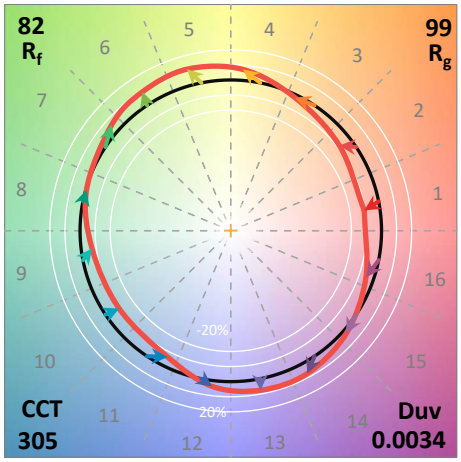
Spectral Power Distribution Comparison

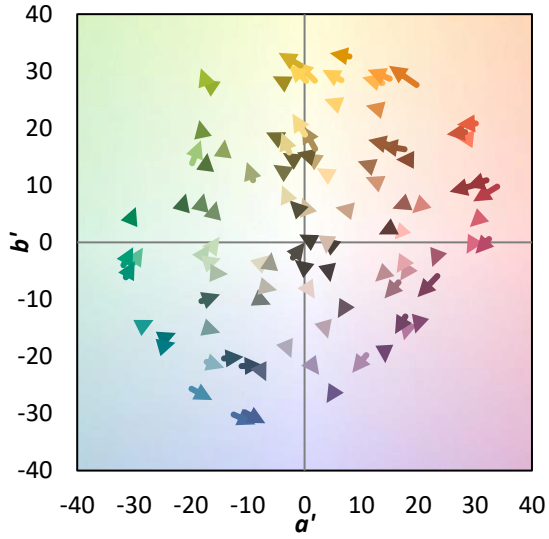


Color Vector Graphics









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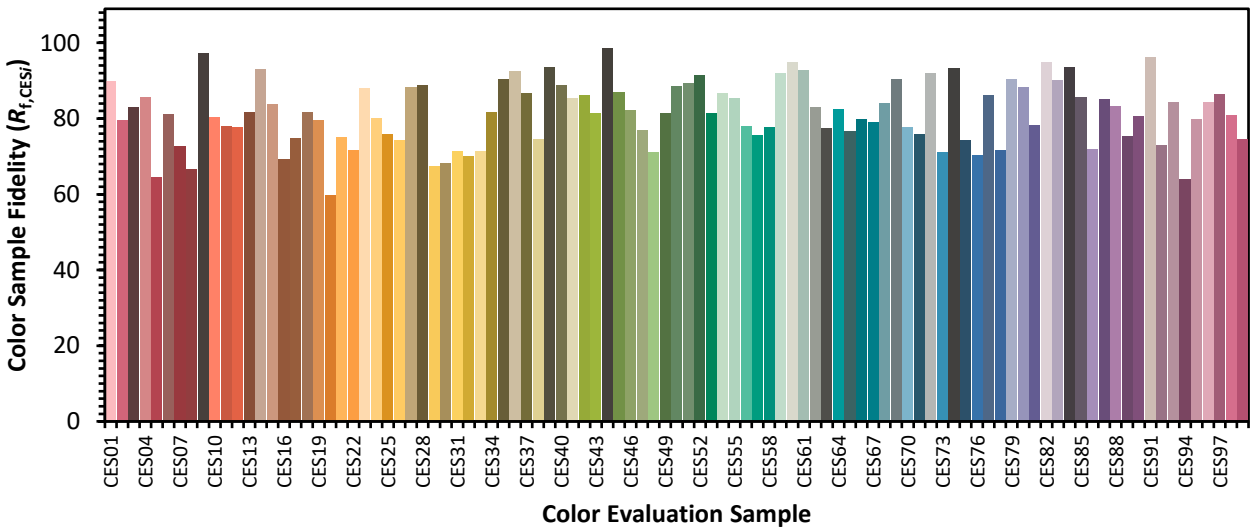
Individual Sample Fidelity Index ($R_{f,i}$)

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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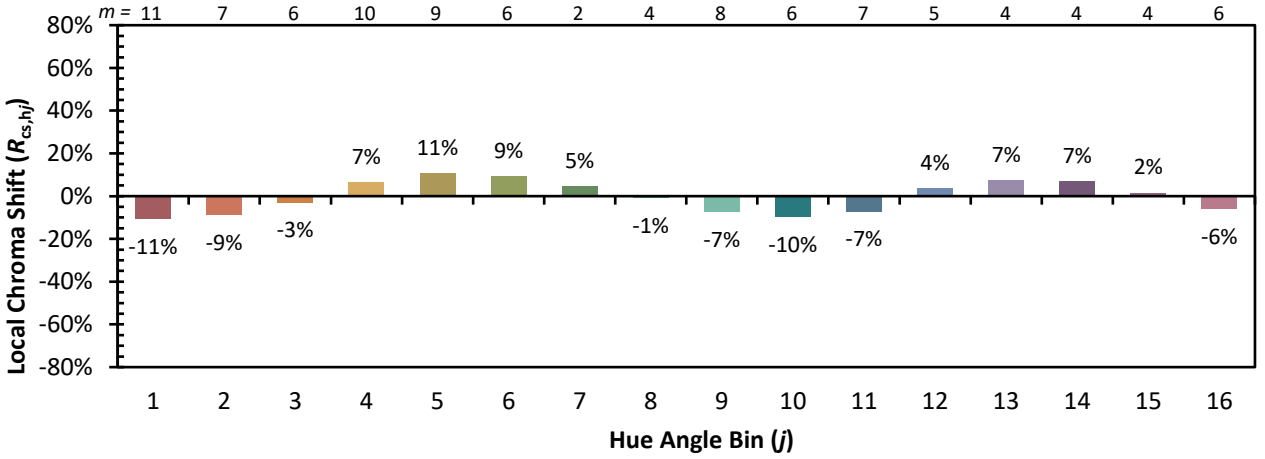
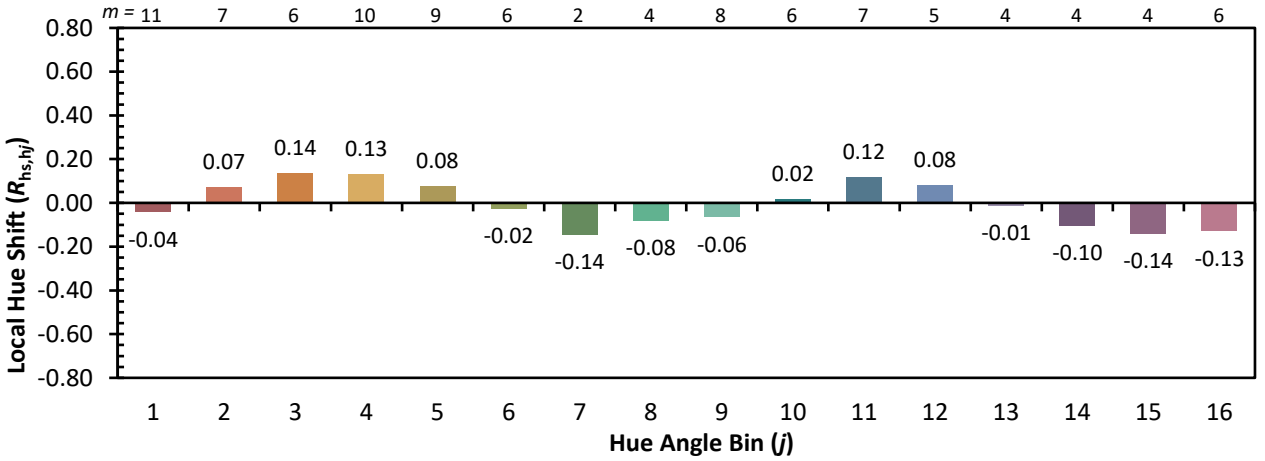
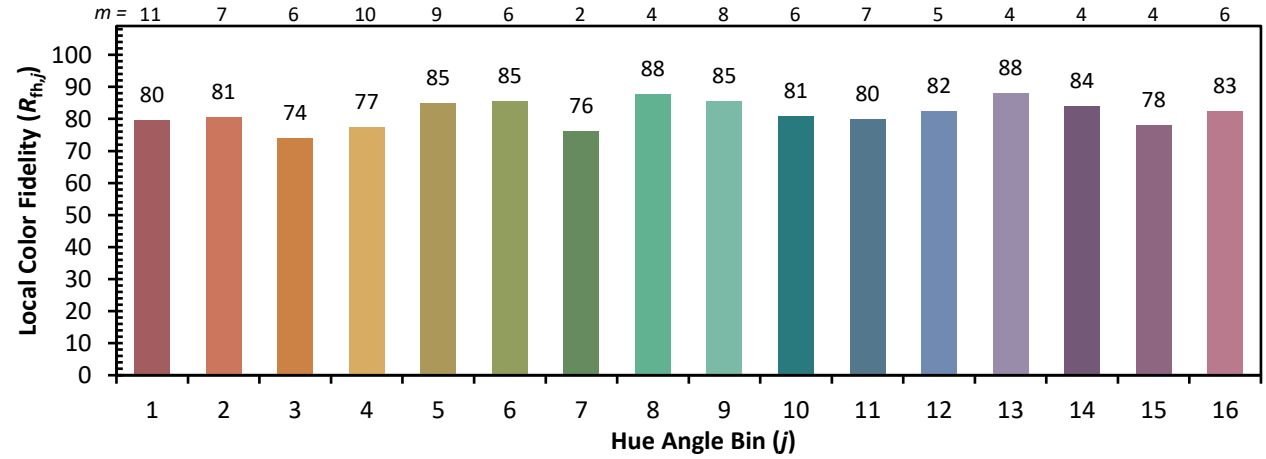
Color Rendition by Hue-Angle Bin







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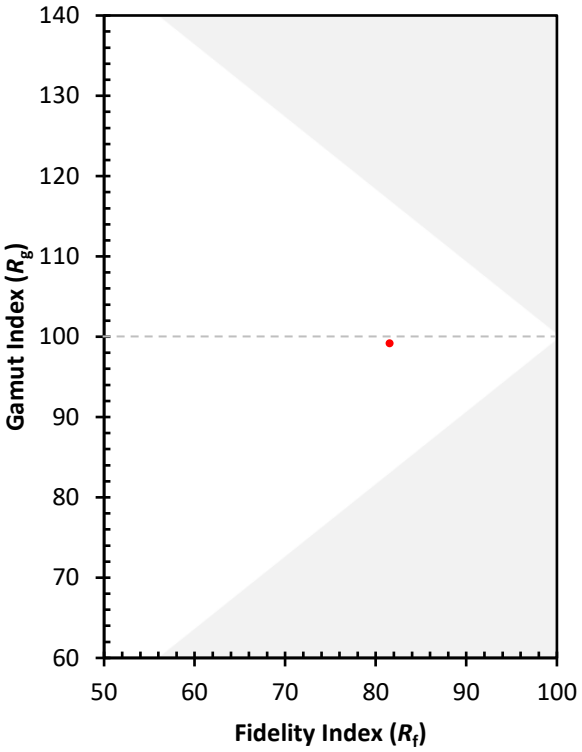
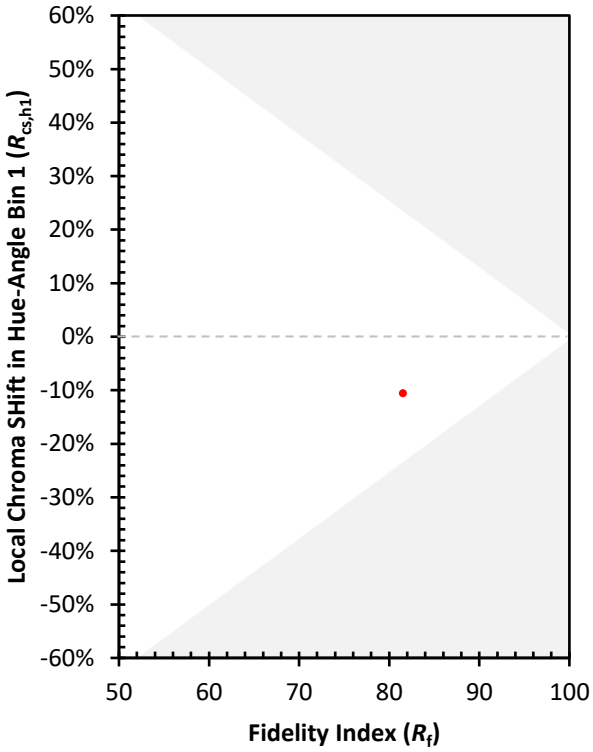
Measure Comparisons





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