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: P322393

Luminaire Tested: **GLEON-SA9A-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:	P322393
	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-SA9A-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 615mA 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:	24125 lumens
Efficiency:	N/A
Efficacy:	83.2 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	290
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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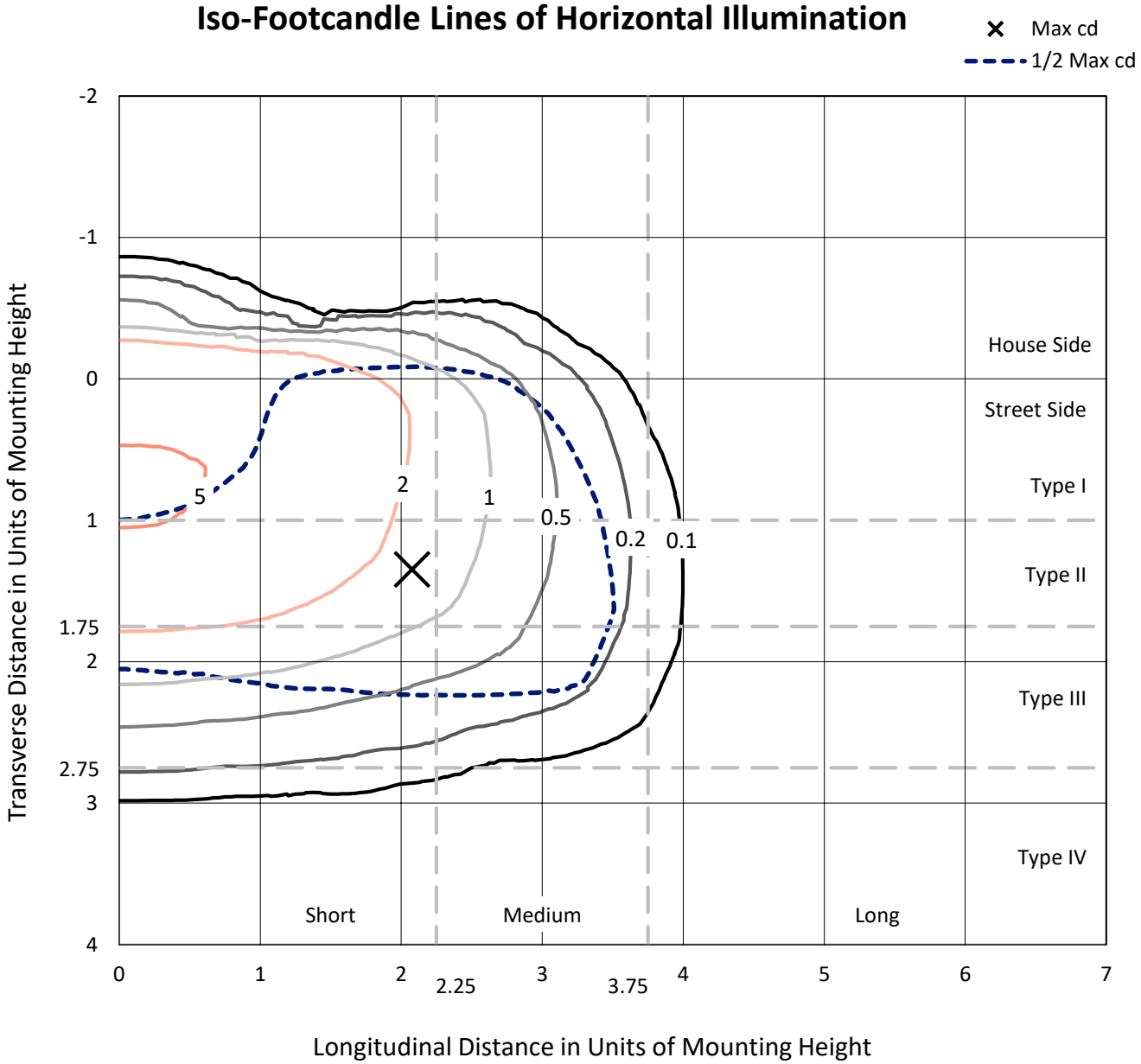
Scaled Data Report

REPORT NUMBER: P322393
CATALOG NUMBER: GLEON-SA9A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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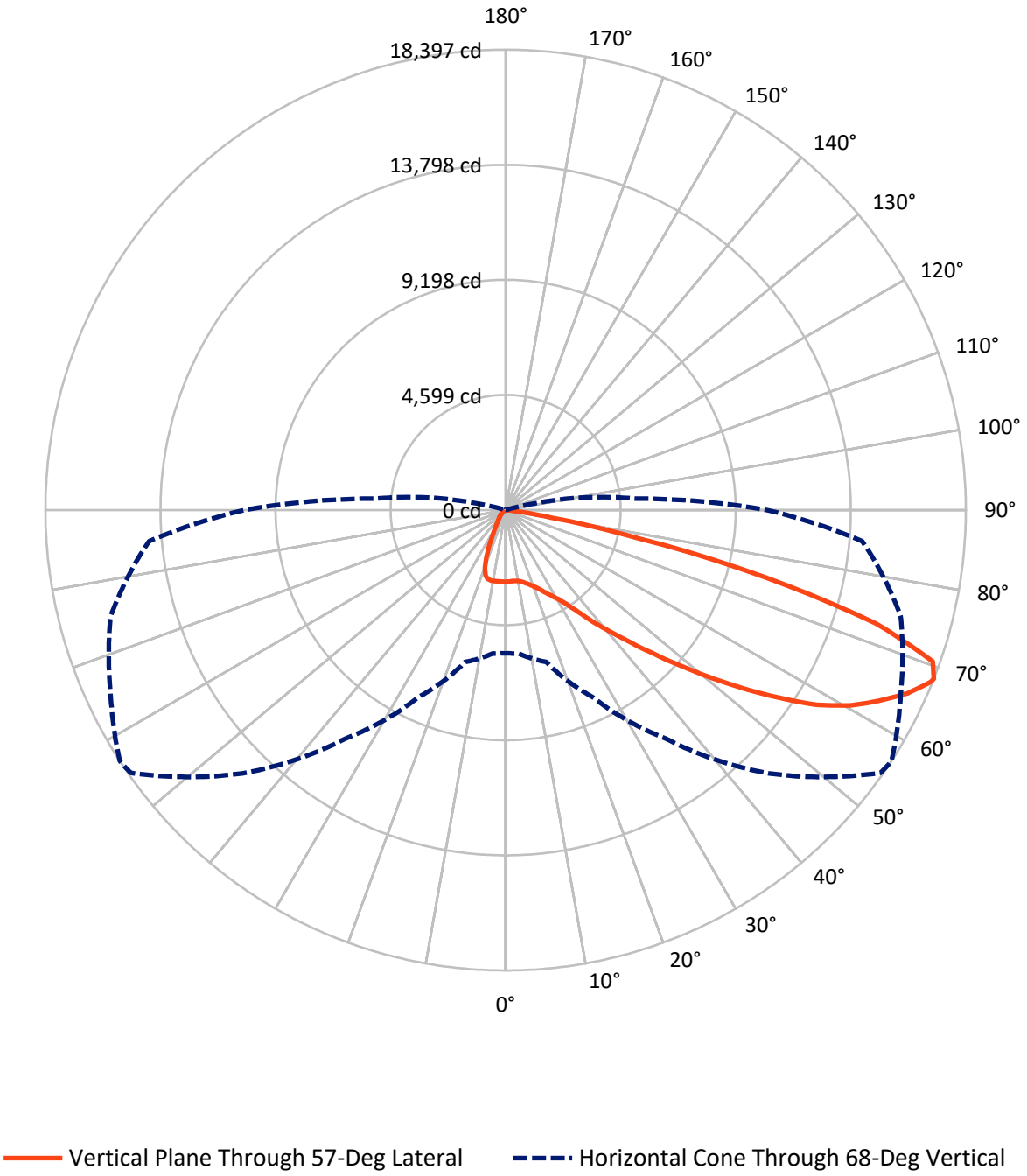
Luminous Intensity Polar Plot



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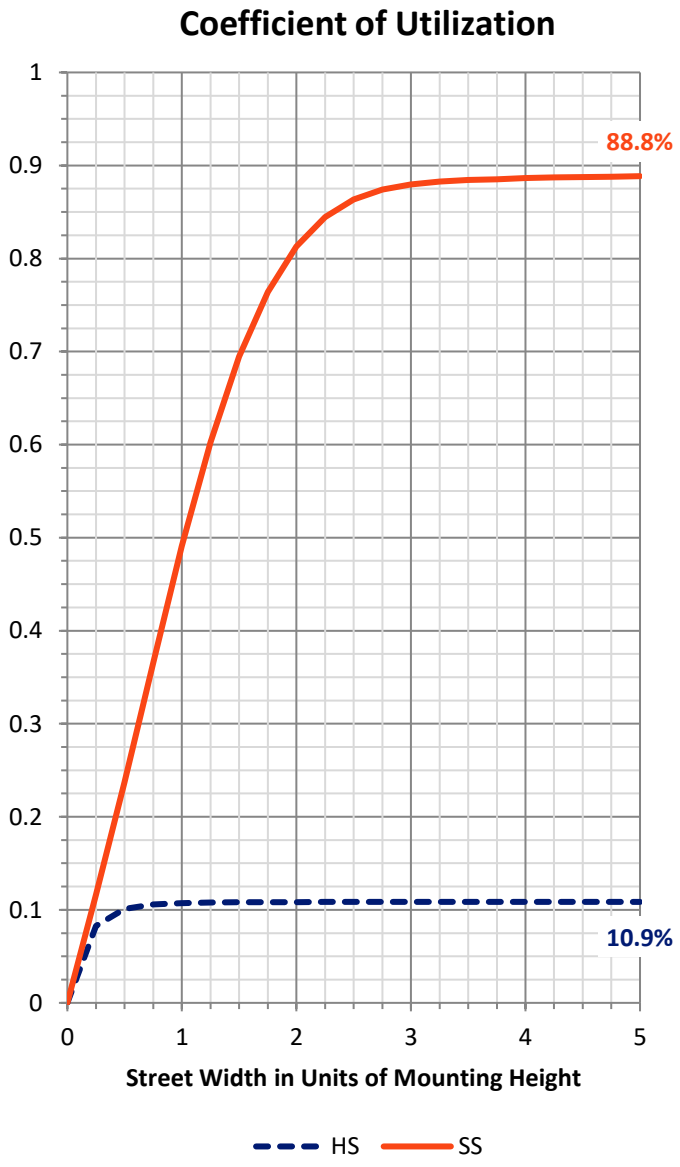
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2645.4	0.0	2645.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21479.5	0.0	21479.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	24125.0	0.0	24125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.1
10°-20°	743.4	3.1
20°-30°	1282.5	5.3
30°-40°	2213.5	9.2
40°-50°	3786.2	15.7
50°-60°	6057.6	25.1
60°-70°	6998.9	29.0
70°-80°	2674.4	11.1
80°-90°	100.3	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°	24125.0	100.0
0°-180°	24125.0	100.0



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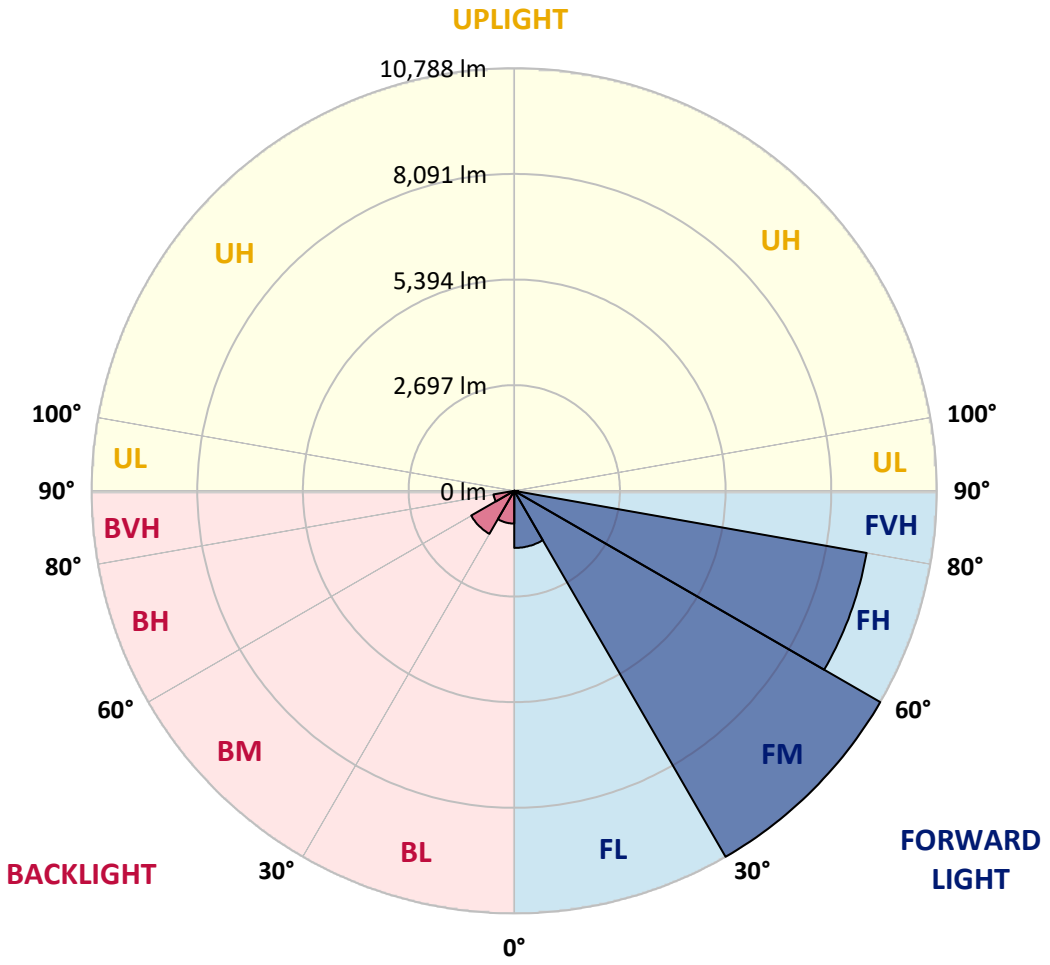
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1458.1	6.0			
FM	(30°-60°)	10788.5	44.7			
FH	(60°-80°)	9134.5	37.9			G4/12000
FVH	(80°-90°)	98.4	0.4			G1/100
BL	(0°-30°)	836.0	3.5	B2/1000		
BM	(30°-60°)	1268.8	5.3	B2/2500		
BH	(60°-80°)	538.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.8	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-G4
Type III Short



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REPORT NUMBER: P322393
CATALOG NUMBER: GLEON-SA9A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	*2866.7*	2866.7	2866.7	2866.7
2.5°	2799.4	2811.9	2821.1	2826.8	2833.6	2848.4	2853.0	*2859.8*	2863.3	2863.3	2871.2
5°	2688.7	2702.4	2721.8	2737.8	2769.7	2810.8	2840.4	*2851.9*	2872.4	2890.6	2900.9
7.5°	2586.1	2602.0	2624.8	2662.5	2717.2	2783.4	2845.0	*2861.0*	2900.9	2939.7	2959.1
10°	2519.9	2532.4	2562.1	2615.7	2687.6	2780.0	2866.7	*2886.1*	2954.5	3019.5	3056.0
12.5°	2497.1	2508.5	2539.3	2599.8	2688.7	2797.1	2916.9	*2945.4*	3045.8	3140.5	3191.8
15°	2530.2	2532.4	2565.5	2622.6	2710.4	2839.3	3000.2	*3034.4*	3161.0	3284.2	3348.1
17.5°	2657.9	2647.7	2664.8	2689.9	2759.5	2895.2	3088.0	*3139.3*	3308.2	3453.0	3513.5
20°	2977.3	2977.3	2938.6	2870.1	2871.2	2981.9	3206.6	*3264.8*	3471.3	3639.0	3693.7
22.5°	3523.8	3513.5	3435.9	3268.2	3114.2	3131.3	3351.5	*3426.8*	3667.5	3846.6	3864.8
25°	4180.8	4168.3	4048.5	3812.4	3545.4	3373.2	3547.7	*3634.4*	3901.3	4059.9	4022.3
27.5°	4876.7	4866.4	4747.8	4454.6	4074.7	3758.7	3781.6	*3863.7*	4139.8	4296.0	4176.3
30°	5550.9	5554.3	5436.8	5135.6	4705.6	4250.4	4078.2	*4126.1*	4371.3	4529.9	4358.8
32.5°	6192.0	6196.5	6095.0	5758.5	5356.9	4821.9	4488.8	*4476.3*	4640.5	4796.8	4600.6
35°	6763.5	6774.9	6705.3	6444.1	6018.6	5458.5	5021.5	*4991.9*	5022.7	5199.5	4971.4
37.5°	7314.4	7321.3	7268.8	7048.6	6692.7	6157.7	5694.6	*5652.4*	5586.2	5722.0	5460.7
40°	7917.9	7900.8	7840.3	7640.7	7335.0	6930.0	6417.8	*6344.8*	6229.6	6350.5	6104.1
42.5°	8479.1	8459.7	8470.0	8244.1	7986.3	7724.0	7260.8	*7135.3*	7068.0	7207.2	6893.5
45°	9180.7	9170.4	9204.7	9008.4	8799.7	8609.2	8227.0	*8090.1*	8060.5	8223.6	7848.3
47.5°	9873.1	9898.2	10004.3	9921.0	9836.6	9668.9	9250.3	*9188.7*	9206.9	9404.3	8855.6
50°	10450.3	10480.0	10770.9	10866.7	10988.8	10890.7	10470.9	*10433.2*	10505.1	10683.1	9939.3
52.5°	10867.9	10928.3	11289.9	11731.4	12176.3	12242.4	11823.8	*11789.6*	11886.5	11913.9	10776.6
55°	11157.6	11211.2	11620.7	12428.4	13334.1	13619.3	13359.2	*13226.9*	13208.7	12938.3	11657.2
57.5°	11208.9	11203.2	11791.9	12879.0	14242.2	14977.9	14813.7	*14683.6*	14309.5	13885.1	12666.8
60°	10919.2	10952.3	11635.6	13035.3	14812.5	16005.8	16018.3	*15849.5*	15266.6	14805.7	13645.6
62.5°	10027.1	10161.7	10851.9	12625.7	14805.7	16419.8	16901.2	*16772.3*	16075.3	15559.7	14638.0
65°	8580.7	8628.6	9286.8	11222.6	13805.3	16246.5	17696.3	*17648.4*	16804.3	16292.1	15147.9
67.5°	6266.1	6162.3	6853.6	8837.3	11688.0	15235.8	18266.7	*18327.2*	17366.7	16442.7	14604.9
68°	*5718.5*	*5749.3*	*6287.8*	*8247.6*	*11133.6*	*14878.7*	*18304.4*	*18396.8*	*17422.6*	*16344.6*	*14308.3*
70°	3408.5	3467.9	3948.1	5678.6	8470.0	12858.5	17898.3	*18109.3*	17089.5	15332.7	12375.9
72.5°	870.4	941.1	1395.1	2541.6	4837.9	9059.8	15109.1	*15466.2*	14837.6	12438.7	8354.8
75°	358.2	376.4	498.5	837.3	1802.4	4081.6	9958.7	*10723.0*	10286.1	7446.8	3775.9
77.5°	247.5	260.1	320.5	464.3	780.3	1383.7	4882.4	*5434.5*	4896.1	2541.6	823.6
80°	178.0	188.2	229.3	309.1	448.3	493.9	1591.3	*1840.0*	1461.3	557.8	204.2
82.5°	106.1	114.1	171.1	220.2	272.6	236.1	395.8	*449.5*	423.2	277.2	91.3
85°	52.5	61.6	115.2	157.4	147.2	99.2	120.9	*134.6*	166.5	168.8	49.1
87.5°	3.4	6.8	67.3	94.7	41.1	22.8	35.4	*43.3*	59.3	83.3	20.5
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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REPORT NUMBER: P322393
CATALOG NUMBER: GLEON-SA9A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7	2866.7
2.5°	2874.7	2875.8	2867.8	2864.4	2866.7	2853.0	2847.3	2849.6	2849.6	2853.0	2847.3
5°	2903.2	2903.2	2889.5	2871.2	2861.0	2834.7	2817.6	2813.1	2809.6	2807.4	2802.8
7.5°	2964.8	2957.9	2934.0	2894.1	2859.8	2802.8	2759.5	2736.6	2725.2	2720.7	2717.2
10°	3064.0	3051.5	3011.6	2937.4	2858.7	2757.2	2662.5	2595.2	2539.3	2516.5	2502.8
12.5°	3197.5	3179.2	3111.9	2988.7	2850.7	2663.6	2458.3	2261.0	2077.3	2002.0	1964.4
15°	3351.5	3325.3	3219.2	3032.1	2803.9	2452.6	2006.6	1660.9	1406.5	1310.7	1269.6
17.5°	3507.8	3473.6	3312.7	3059.5	2663.6	2015.7	1407.7	1063.2	893.2	847.6	831.6
20°	3665.2	3615.0	3393.7	3038.9	2346.5	1453.3	928.6	776.8	727.8	714.1	709.5
22.5°	3814.6	3737.1	3466.7	2959.1	1858.3	975.3	734.6	686.7	670.8	662.8	660.5
25°	3944.7	3836.3	3530.6	2712.7	1315.3	736.9	661.6	645.7	625.1	610.3	611.4
27.5°	4066.7	3935.6	3569.4	2306.6	877.2	629.7	612.6	590.9	553.3	531.6	531.6
30°	4213.9	4067.9	3597.9	1775.0	645.7	556.7	543.0	509.9	458.6	430.1	430.1
32.5°	4435.2	4268.7	3579.7	1245.7	535.0	489.4	457.4	411.8	355.9	328.5	327.4
35°	4774.0	4578.9	3449.6	816.8	472.3	425.5	374.2	318.3	269.2	246.4	245.3
37.5°	5230.3	4994.2	3157.6	584.1	423.2	366.2	304.6	243.0	206.5	191.6	190.5
40°	5822.4	5476.7	2740.1	473.4	377.6	309.1	235.0	188.2	163.1	151.7	152.9
42.5°	6533.0	5993.5	2239.3	408.4	333.1	254.4	183.7	148.3	132.3	124.3	122.1
45°	7322.4	6503.4	1714.5	363.9	288.6	205.3	143.7	117.5	104.9	100.4	100.4
47.5°	8190.5	6999.6	1254.8	325.1	240.7	158.6	115.2	95.8	85.6	82.1	81.0
50°	8978.8	7344.1	904.6	284.0	197.3	125.5	93.5	79.9	73.0	68.4	68.4
52.5°	9635.9	7452.5	666.2	239.6	159.7	100.4	77.6	68.4	61.6	58.2	58.2
55°	10214.2	7408.0	495.1	197.3	128.9	82.1	66.2	58.2	52.5	49.1	49.1
57.5°	10768.6	7264.2	369.6	160.8	103.8	66.2	55.9	49.1	43.3	41.1	41.1
60°	11221.5	7024.7	274.9	130.0	83.3	53.6	46.8	39.9	35.4	31.9	31.9
62.5°	11588.8	6760.0	201.9	107.2	66.2	42.2	36.5	33.1	26.2	22.8	22.8
65°	11591.1	6320.9	151.7	89.0	51.3	33.1	27.4	26.2	17.1	13.7	12.5
67.5°	10752.6	5449.3	116.4	76.4	39.9	25.1	20.5	21.7	9.1	5.7	4.6
68°	*10448.1*	*5228.0*	*109.5*	*75.3*	*37.6*	*24.0*	*19.4*	*21.7*	*8.0*	*4.6*	*3.4*
70°	8808.8	4159.1	87.8	73.0	33.1	18.3	16.0	21.7	6.8	3.4	2.3
72.5°	5634.1	2413.8	65.0	58.2	25.1	13.7	10.3	19.4	6.8	2.3	1.1
75°	2397.8	748.3	44.5	41.1	14.8	10.3	6.8	12.5	4.6	1.1	0.0
77.5°	505.3	168.8	26.2	25.1	10.3	6.8	4.6	3.4	1.1	0.0	0.0
80°	130.0	49.1	13.7	12.5	5.7	3.4	2.3	0.0	0.0	0.0	0.0
82.5°	41.1	19.4	8.0	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.5	11.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	3.4	1.1	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

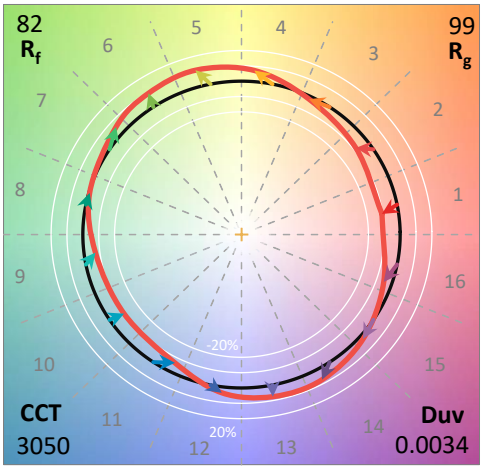
Test Information

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

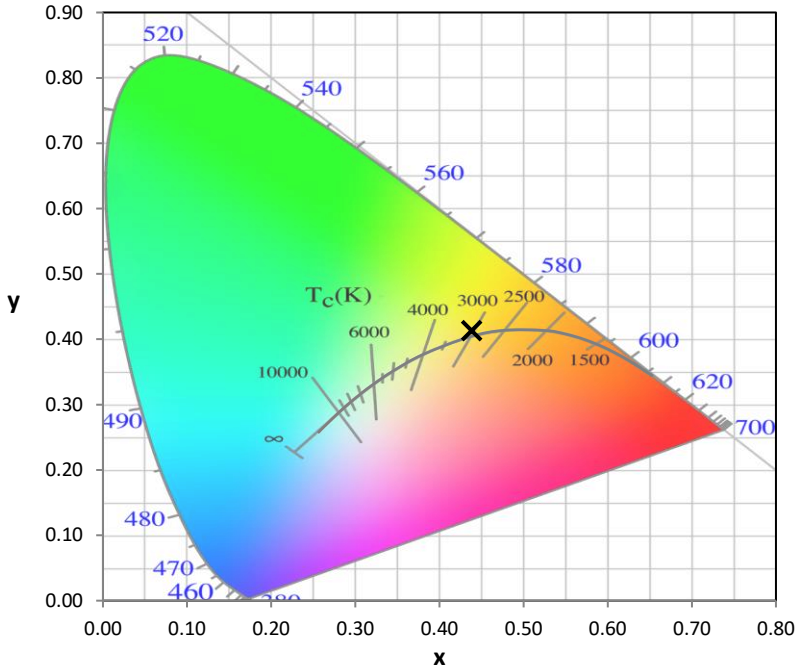
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

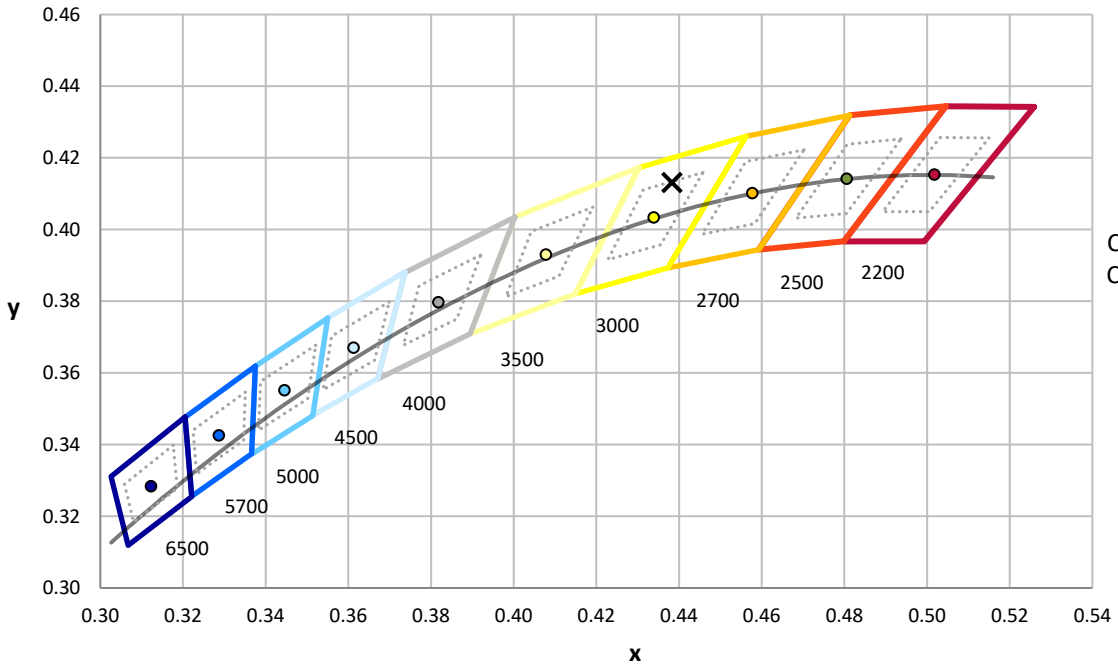
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

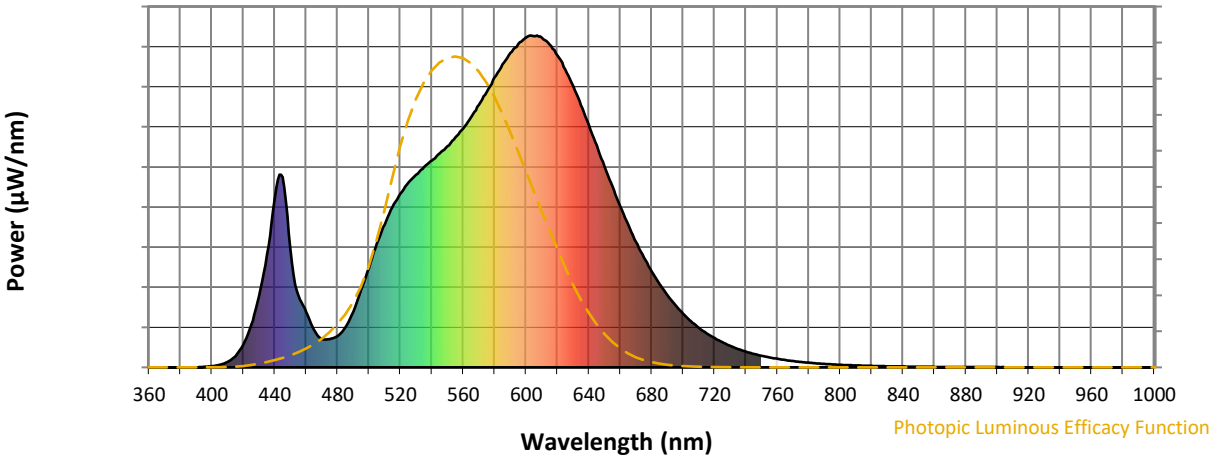


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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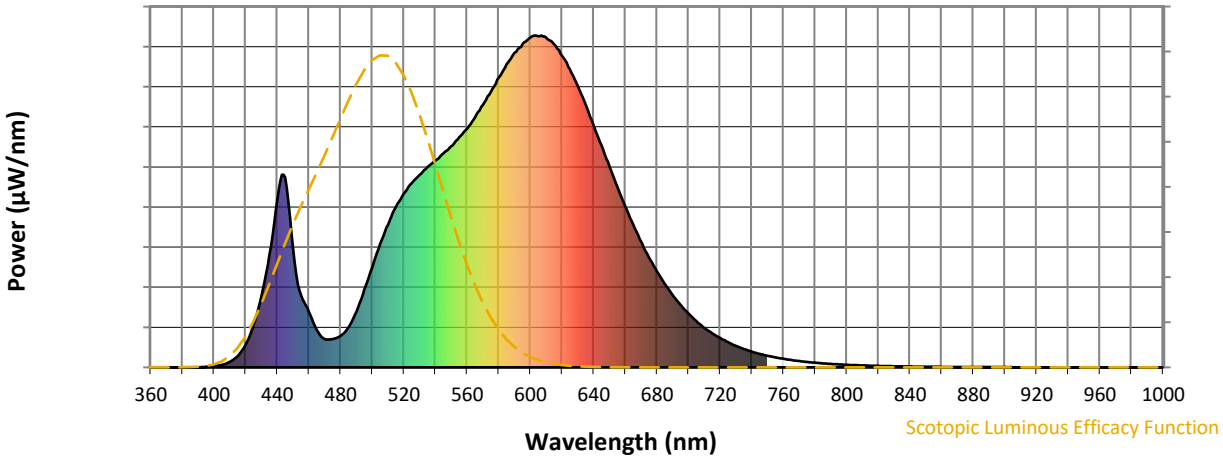
Scotopic Flux vs. Wavelength



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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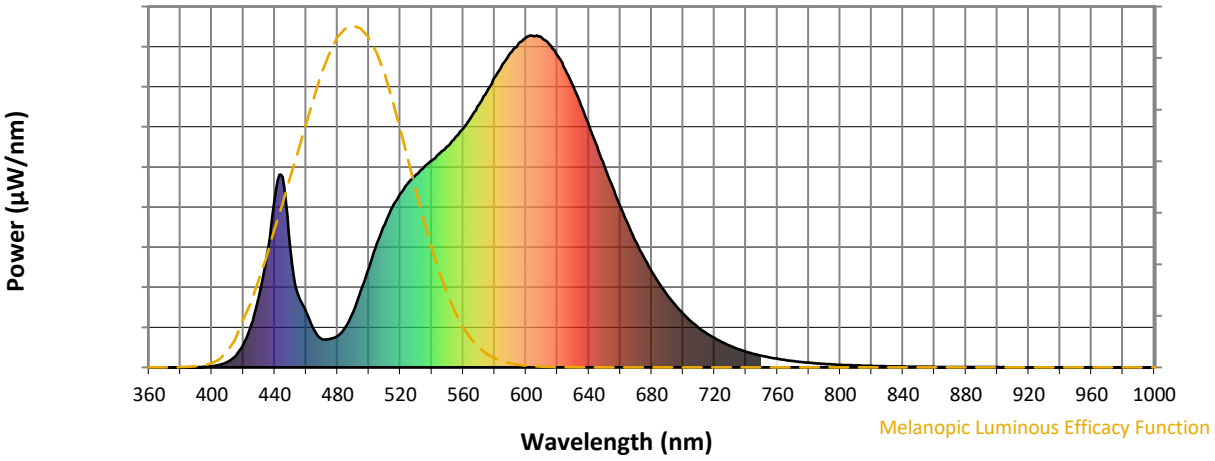
Melanopic Flux vs. Wavelength



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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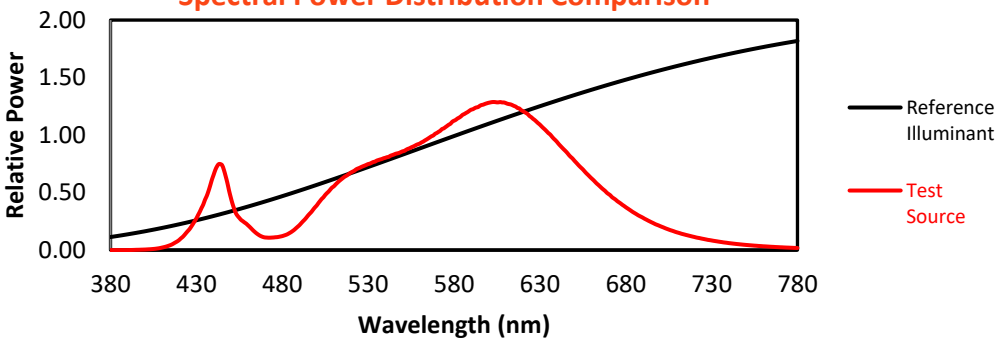
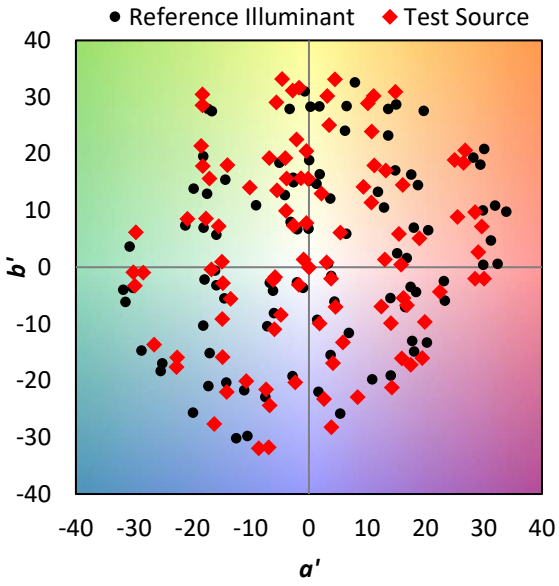
Summary

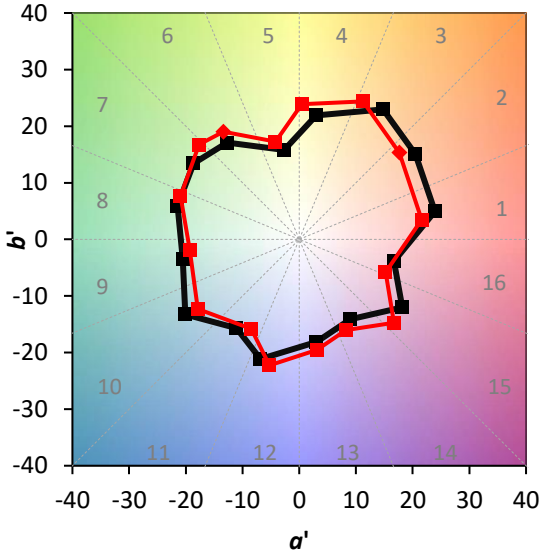
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

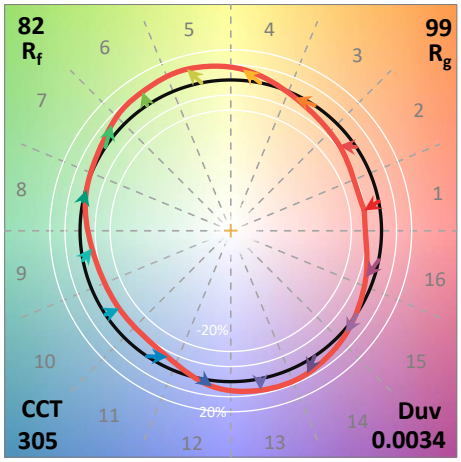
Spectral Power Distribution Comparison

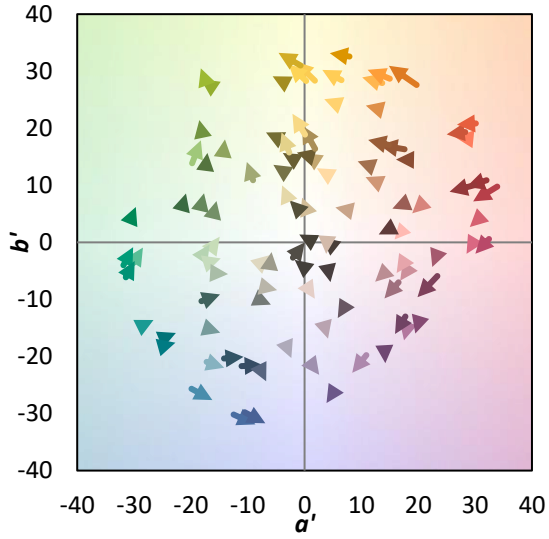


Color Vector Graphics









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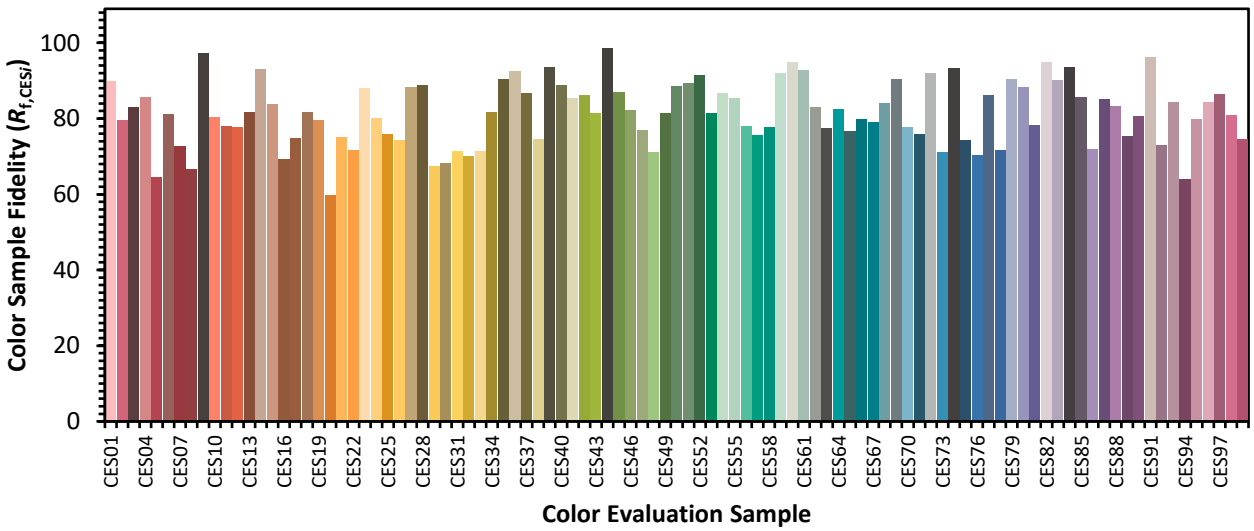
Individual Sample Fidelity Index ($R_{f,i}$)

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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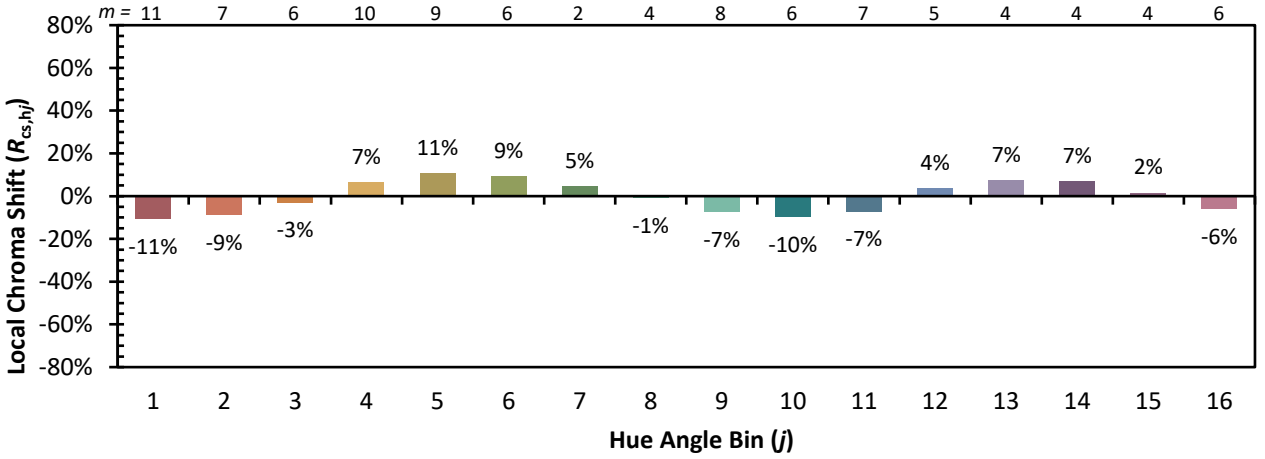
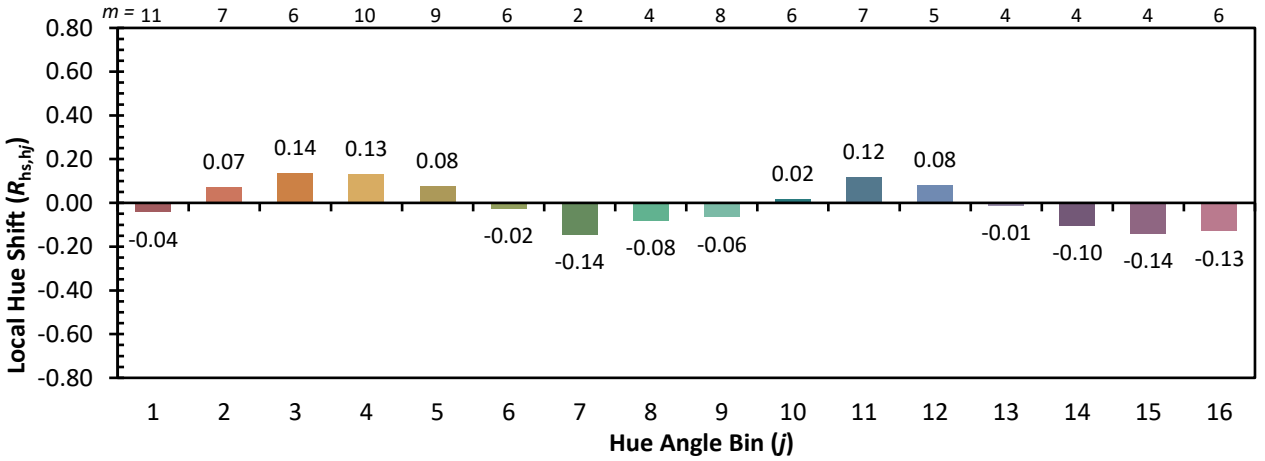
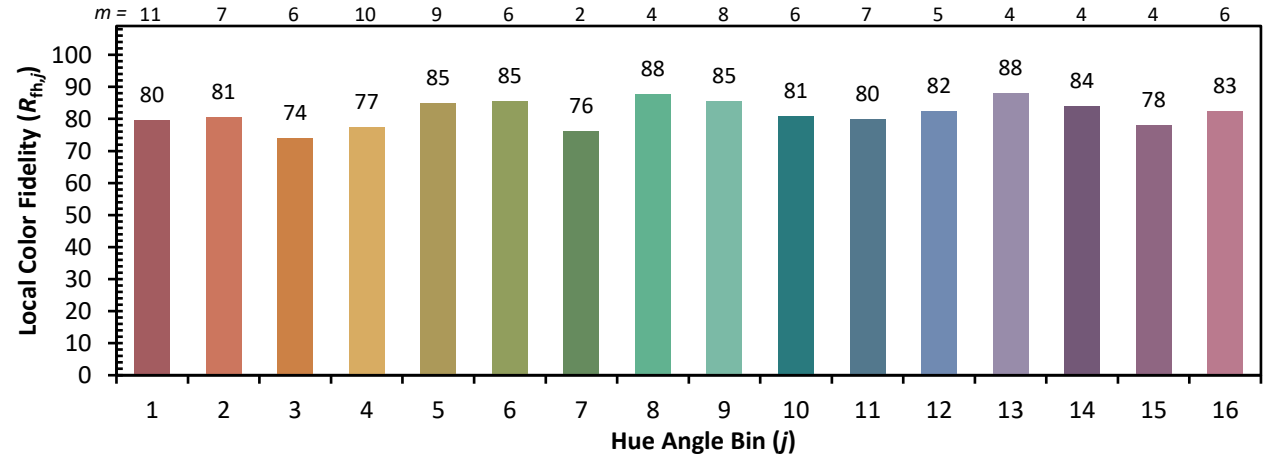
Color Rendition by Hue-Angle Bin







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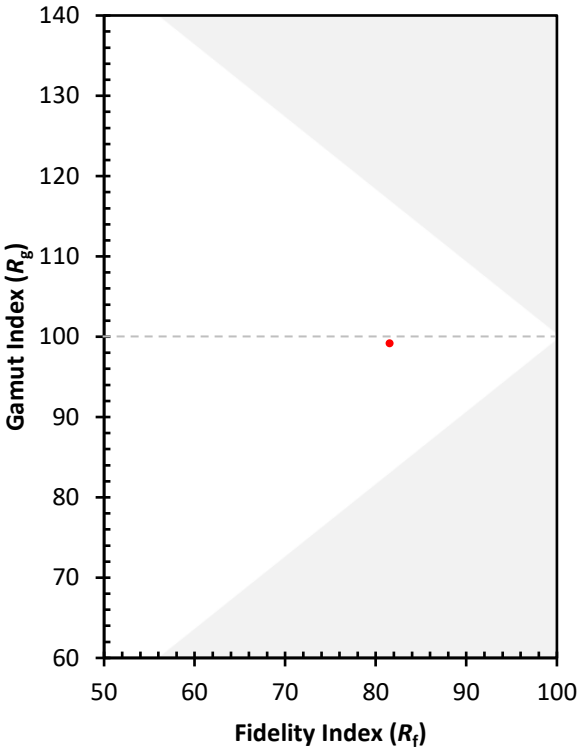
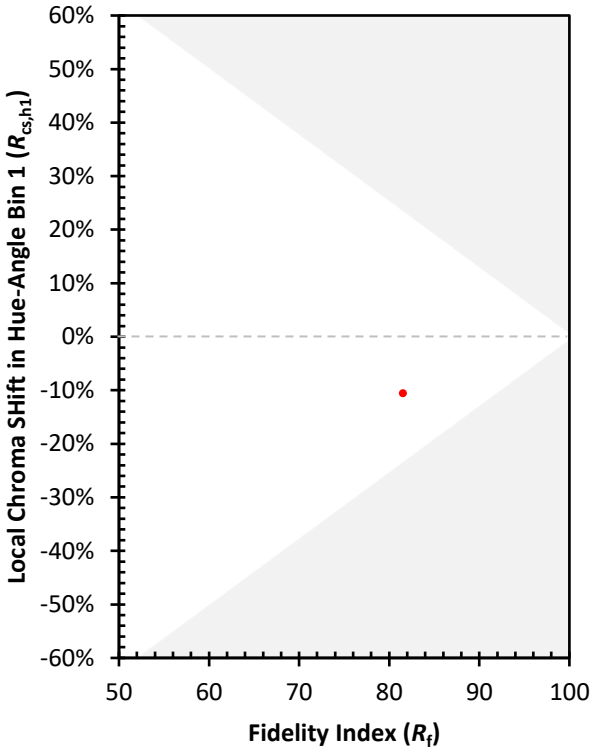
Measure Comparisons





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