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: P324007

Luminaire Tested: **GLEON-SA3C-830-U-SL4-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:	P324007
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3C-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13927 lumens
Efficiency:	N/A
Efficacy:	83.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	166
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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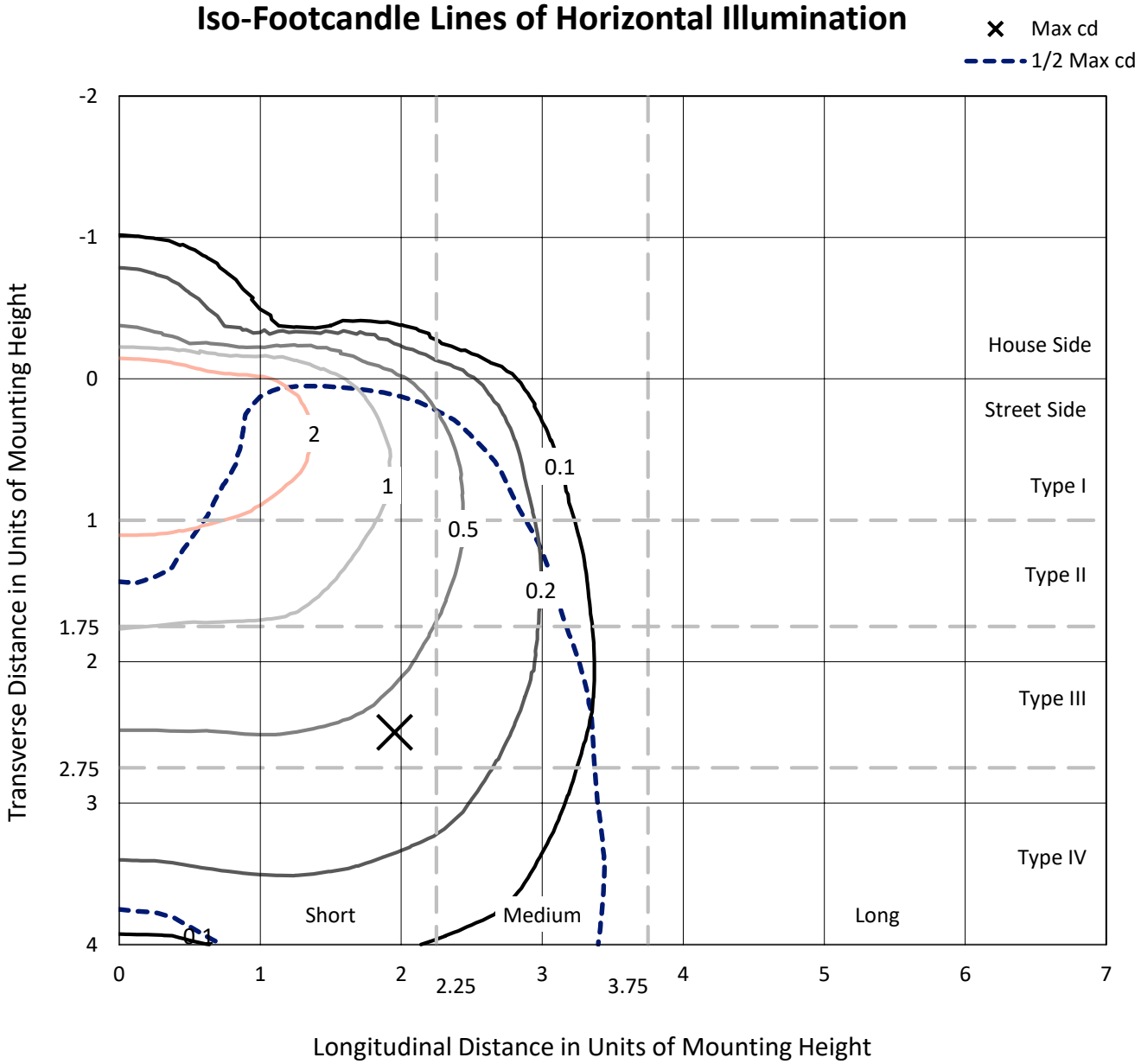
Scaled Data Report

REPORT NUMBER: P324007
CATALOG NUMBER: GLEON-SA3C-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Short - N/A

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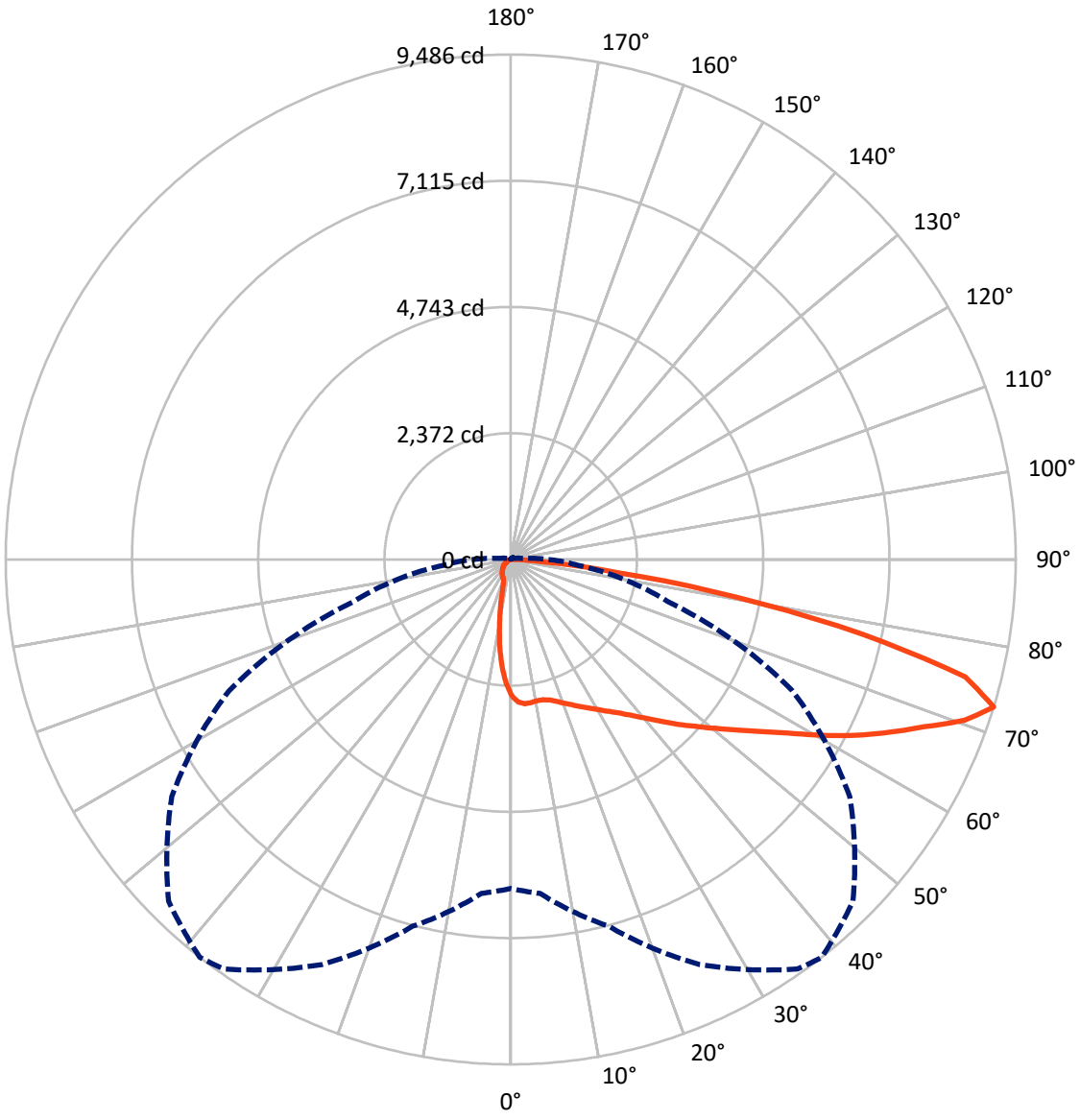
Luminous Intensity Polar Plot



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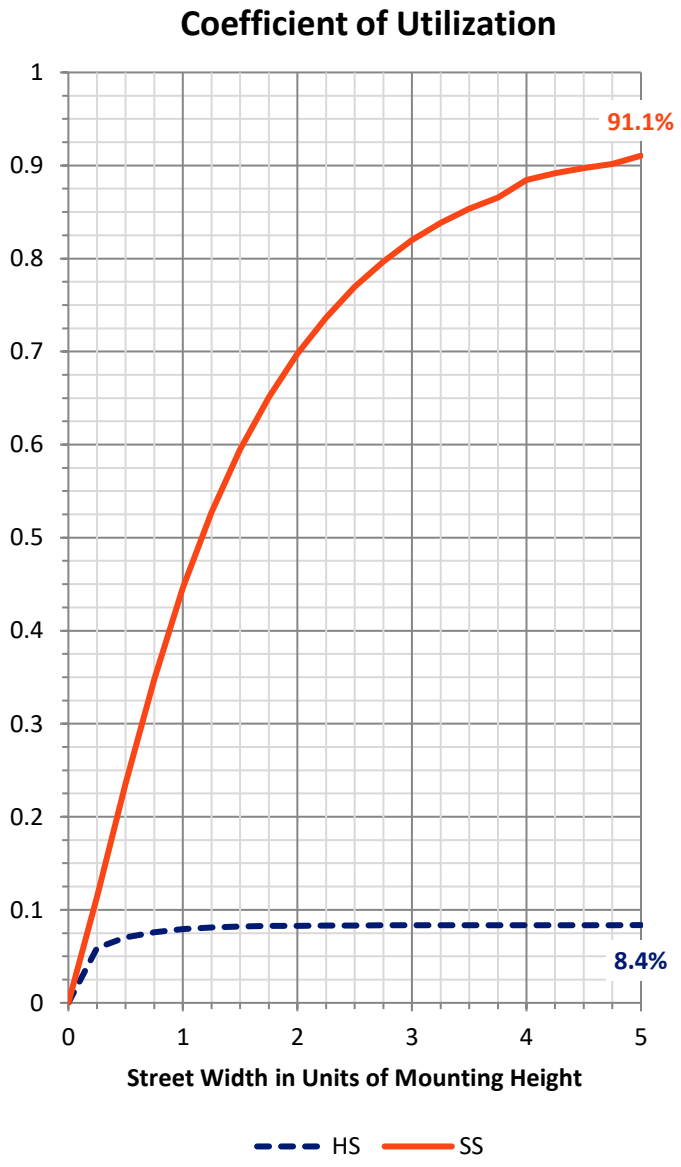
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1172.0	0.0	1172.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12755.0	0.0	12755.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	13927.0	0.0	13927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.6
10°-20°	533.7	3.8
20°-30°	848.8	6.1
30°-40°	1276.1	9.2
40°-50°	1946.8	14.0
50°-60°	2751.5	19.8
60°-70°	3451.3	24.8
70°-80°	2580.6	18.5
80°-90°	320.0	2.3
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°	13927.0	100.0
0°-180°	13927.0	100.0



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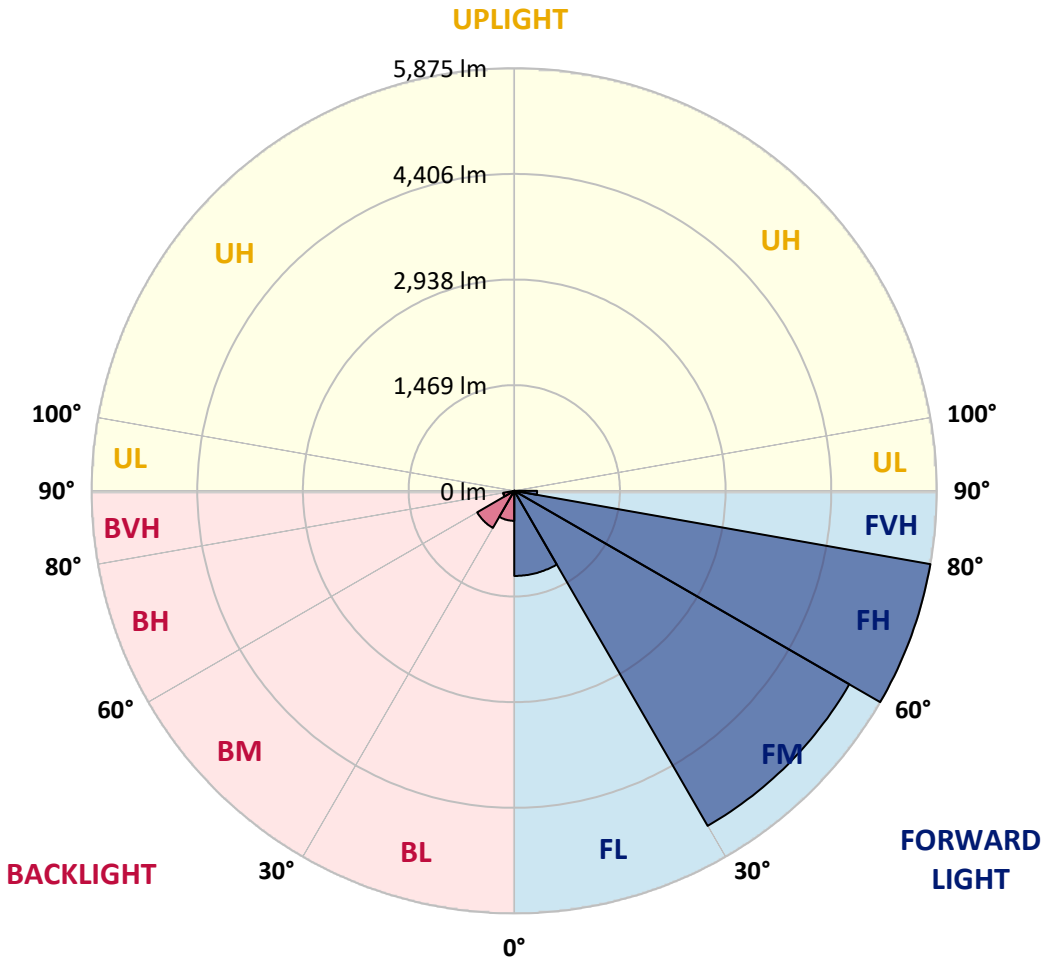
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1183.5	8.5			
FM	(30°-60°)	5379.2	38.6			
FH	(60°-80°)	5875.3	42.2			G3/7500
FVH	(80°-90°)	317.0	2.3			G3/500
BL	(0°-30°)	417.3	3.0	B1/500		
BM	(30°-60°)	595.2	4.3	B1/1000		
BH	(60°-80°)	156.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G3
Type IV Short



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REPORT NUMBER: P324007
CATALOG NUMBER: GLEON-SA3C-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1
2.5°	2718.5	2719.0	2712.7	2702.3	2689.0	2682.0	2670.4	2651.9	2632.3	2597.0	2558.8
5°	2774.0	2774.0	2765.9	2752.0	2730.6	2724.2	2702.3	2672.8	2632.3	2575.0	2510.8
7.5°	2768.2	2769.4	2758.4	2743.9	2722.5	2716.7	2690.1	2657.1	2606.8	2537.4	2455.3
10°	2738.1	2741.0	2732.3	2725.4	2705.7	2699.4	2674.5	2641.5	2591.2	2517.2	2422.9
12.5°	2707.5	2710.4	2713.2	2719.6	2707.5	2705.1	2685.5	2657.7	2609.7	2532.8	2426.4
15°	2687.8	2693.6	2714.4	2739.3	2742.2	2739.9	2727.1	2701.1	2652.5	2572.7	2451.2
17.5°	2687.8	2697.1	2740.4	2787.9	2804.6	2806.4	2795.4	2758.9	2701.1	2615.5	2474.4
20°	2710.4	2723.1	2790.8	2857.8	2885.6	2885.6	2864.2	2813.3	2745.6	2654.3	2490.0
22.5°	2768.2	2785.0	2870.0	2947.5	2977.0	2970.6	2941.7	2867.7	2791.9	2698.2	2509.7
25°	2882.1	2894.9	2983.4	3061.4	3079.4	3064.9	3028.5	2933.6	2850.9	2757.8	2545.5
27.5°	3029.1	3030.8	3122.2	3188.1	3177.1	3167.3	3121.6	3016.3	2935.9	2842.8	2607.4
30°	3190.4	3190.4	3270.8	3321.1	3287.6	3279.5	3233.8	3116.4	3044.7	2958.5	2695.3
32.5°	3346.6	3353.5	3418.9	3450.7	3413.1	3405.0	3360.5	3243.1	3189.3	3134.9	2832.4
35°	3497.5	3502.8	3564.6	3582.0	3546.1	3548.4	3516.6	3417.2	3396.9	3390.0	3038.9
37.5°	3643.9	3645.0	3708.1	3719.1	3701.1	3720.8	3723.7	3635.8	3673.4	3729.5	3329.8
40°	3777.5	3778.6	3841.1	3869.5	3900.1	3925.6	3948.1	3901.3	4025.6	4155.8	3676.3
42.5°	3884.5	3896.6	3975.9	4029.7	4110.6	4159.2	4220.5	4218.2	4445.0	4640.5	4095.0
45°	3978.8	3999.6	4110.1	4204.3	4343.2	4420.7	4516.7	4591.9	4916.9	5180.1	4519.0
47.5°	4103.1	4122.8	4248.9	4403.3	4588.4	4690.2	4849.3	5011.8	5435.7	5709.9	4933.1
50°	4278.4	4269.7	4394.1	4615.6	4853.3	4986.9	5213.6	5457.1	5950.5	6171.5	5176.6
52.5°	4465.2	4461.7	4553.7	4846.4	5165.6	5321.8	5621.4	5917.6	6442.7	6489.6	5288.3
55°	4696.6	4671.7	4749.2	5109.5	5536.4	5704.1	6056.9	6373.3	6834.9	6668.9	5344.4
57.5°	4938.9	4897.8	4971.9	5402.8	5954.6	6153.0	6539.3	6817.5	7095.7	6791.5	5343.8
60°	5189.4	5140.8	5228.7	5769.5	6474.0	6703.6	7062.2	7117.7	7339.2	6853.4	5304.5
62.5°	5398.7	5369.8	5500.5	6161.6	7054.1	7279.7	7457.2	7390.7	7544.6	6901.4	5212.5
65°	5620.3	5622.0	5833.1	6619.1	7670.7	7822.8	7837.8	7744.7	7716.4	6891.6	4901.3
67.5°	5919.9	5947.6	6299.9	7240.3	8270.5	8387.9	8386.7	8128.2	7841.9	6500.6	4211.3
70°	6236.8	6302.2	6837.8	7951.2	8925.2	9044.3	8983.0	8372.3	7383.8	5256.4	2980.5
72.5°	6183.6	6297.0	7136.8	8399.4	9395.4	9486.2	9087.7	7772.5	5836.0	3055.1	1269.0
75°	4770.6	4901.9	6544.0	7955.2	8902.1	8820.5	7808.3	6048.3	3189.3	852.6	285.7
77.5°	2520.1	2590.0	4322.9	6060.4	6941.3	6770.7	5500.5	3355.3	972.3	211.1	128.4
80°	1319.9	1336.1	1883.8	3438.6	4284.2	4285.3	3259.8	1473.7	400.8	108.2	86.2
82.5°	706.8	720.7	995.4	1588.8	2244.7	2034.8	1248.2	810.9	233.1	61.3	82.7
85°	170.0	172.9	564.5	725.9	882.6	630.4	370.8	680.8	63.0	35.9	67.1
87.5°	65.4	66.5	209.4	314.1	225.0	145.8	173.5	253.9	8.1	13.9	10.4
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-SA3C-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1
2.5°	2535.7	2520.6	2483.6	2436.8	2395.1	2365.1	2319.9	2290.4	2270.8	2270.2	2262.7
5°	2471.5	2440.8	2361.0	2266.1	2180.0	2102.5	2011.1	1938.8	1885.0	1876.3	1857.8
7.5°	2402.6	2352.3	2229.7	2081.6	1937.0	1790.1	1619.5	1513.7	1422.8	1379.5	1374.8
10°	2360.4	2289.9	2115.8	1901.8	1675.0	1436.2	1212.9	1058.5	946.8	915.0	891.3
12.5°	2351.8	2258.6	2027.8	1732.9	1409.0	1093.2	846.2	681.9	592.9	564.5	557.0
15°	2360.4	2244.2	1953.8	1565.7	1139.4	775.6	568.0	472.5	439.0	430.9	430.3
17.5°	2365.6	2226.8	1869.9	1380.0	878.0	554.1	435.0	407.2	402.0	401.4	402.6
20°	2365.1	2200.2	1769.9	1173.0	653.0	435.5	393.3	387.5	386.4	386.9	386.4
22.5°	2361.0	2169.0	1660.0	959.6	493.4	389.3	375.4	371.9	371.3	371.3	371.3
25°	2368.5	2144.1	1539.1	755.4	406.6	367.9	359.2	356.3	355.7	355.7	354.6
27.5°	2395.7	2130.2	1406.7	581.3	367.3	348.8	341.8	341.3	339.5	338.9	340.1
30°	2439.7	2130.2	1261.5	452.3	343.6	329.1	323.9	322.7	322.2	321.6	322.2
32.5°	2517.2	2146.4	1103.0	376.0	321.0	307.1	303.7	305.4	303.7	303.7	303.7
35°	2657.1	2195.0	937.0	327.9	297.3	285.7	282.3	284.6	283.4	283.4	282.8
37.5°	2861.3	2285.2	769.8	299.0	276.5	264.3	259.7	263.2	262.0	262.0	261.4
40°	3110.0	2416.5	610.8	277.1	256.2	243.5	239.5	241.2	238.3	238.3	239.5
42.5°	3417.2	2583.1	472.0	255.7	236.0	223.8	221.5	219.8	214.6	211.7	212.3
45°	3758.4	2756.6	367.9	234.8	216.9	207.1	203.6	199.0	190.3	184.5	185.1
47.5°	4063.2	2890.2	299.0	214.6	199.5	192.0	186.8	178.1	165.4	158.5	159.1
50°	4223.4	2910.5	254.5	194.3	183.4	175.8	168.3	155.0	140.0	132.5	131.9
52.5°	4264.5	2815.6	221.5	175.8	167.2	158.5	148.6	130.7	113.9	105.8	104.7
55°	4279.5	2671.0	192.0	158.5	149.8	140.0	127.2	107.0	91.4	83.3	82.7
57.5°	4229.8	2455.3	168.9	142.9	132.5	120.3	104.7	85.6	70.6	64.2	64.2
60°	4119.3	2163.2	151.0	126.1	114.5	100.6	84.4	66.5	52.6	47.4	47.4
62.5°	3899.0	1784.9	134.2	108.7	97.7	83.3	68.3	50.3	37.0	34.1	34.7
65°	3483.1	1354.0	117.4	93.1	83.3	68.8	53.2	35.9	24.9	24.9	26.0
67.5°	2840.5	940.5	100.1	79.2	71.7	56.1	40.5	24.9	17.4	19.7	22.0
70°	1880.4	527.5	85.6	65.4	61.3	44.5	30.1	16.8	13.9	18.5	22.6
72.5°	*709.7*	*205.3*	*71.7*	*52.6*	*53.2*	*34.1*	*21.4*	*12.7*	*12.7*	*20.2*	*26.6*
75°	197.8	100.6	51.5	38.8	41.6	24.9	15.6	11.0	12.1	23.1	31.2
77.5°	116.3	74.0	33.5	22.6	28.3	17.4	10.4	8.7	10.4	19.7	30.1
80°	93.7	39.3	19.7	11.6	15.6	9.8	6.9	5.2	2.9	7.5	15.6
82.5°	93.7	23.7	9.3	8.1	8.1	5.2	3.5	2.3	0.6	0.0	4.0
85°	63.0	9.8	5.8	5.2	4.0	1.7	1.2	0.6	0.0	0.0	0.0
87.5°	10.4	4.0	2.3	1.2	0.6	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

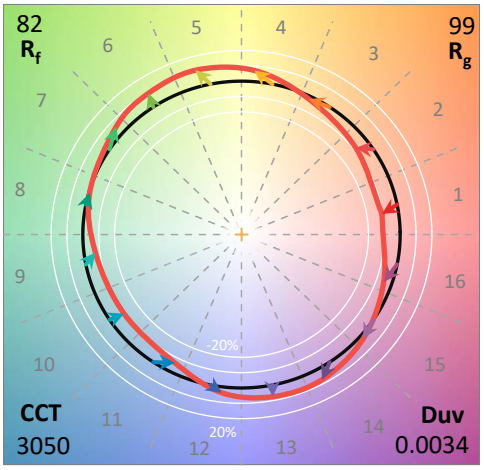
Test Information

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

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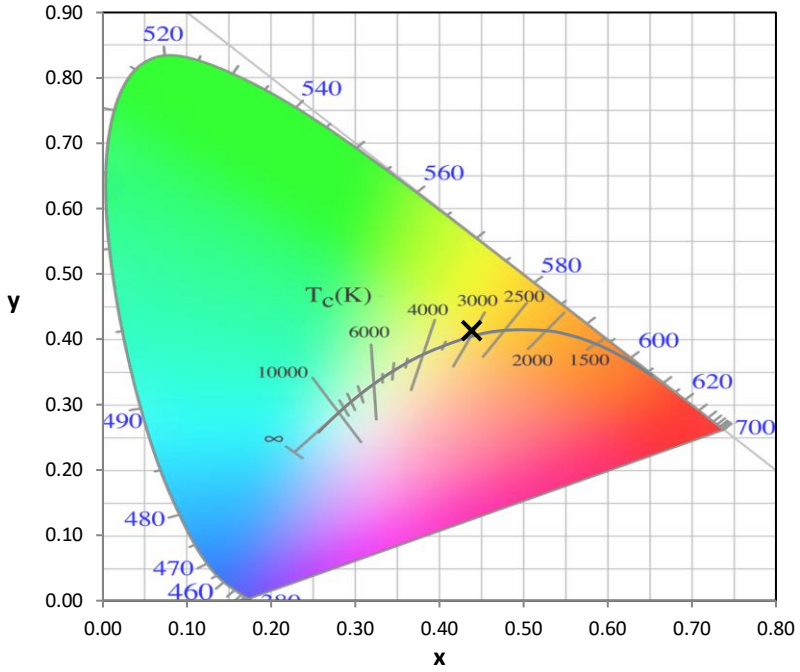
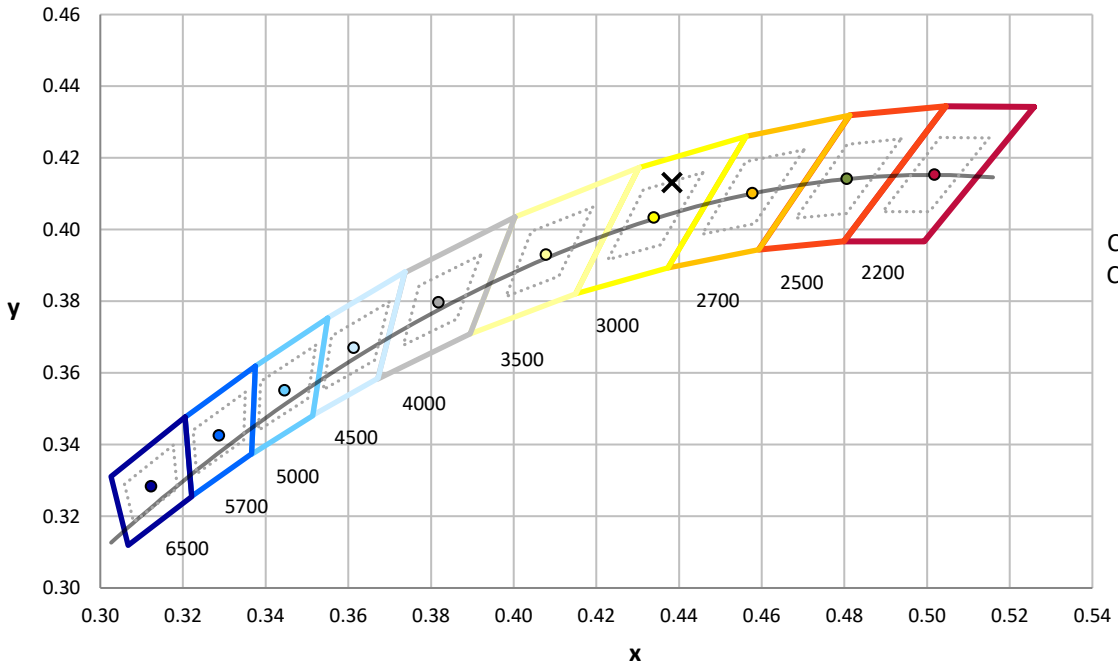
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

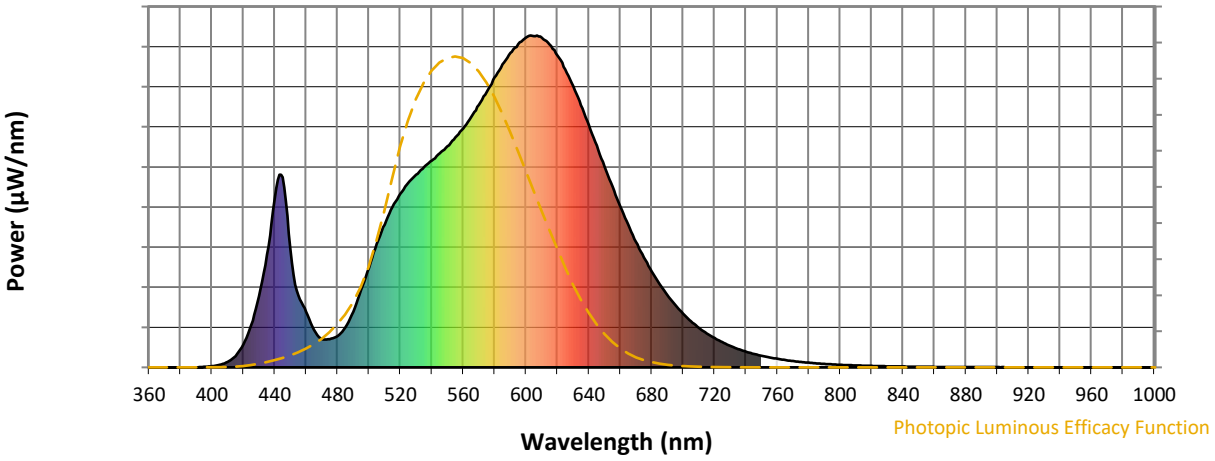


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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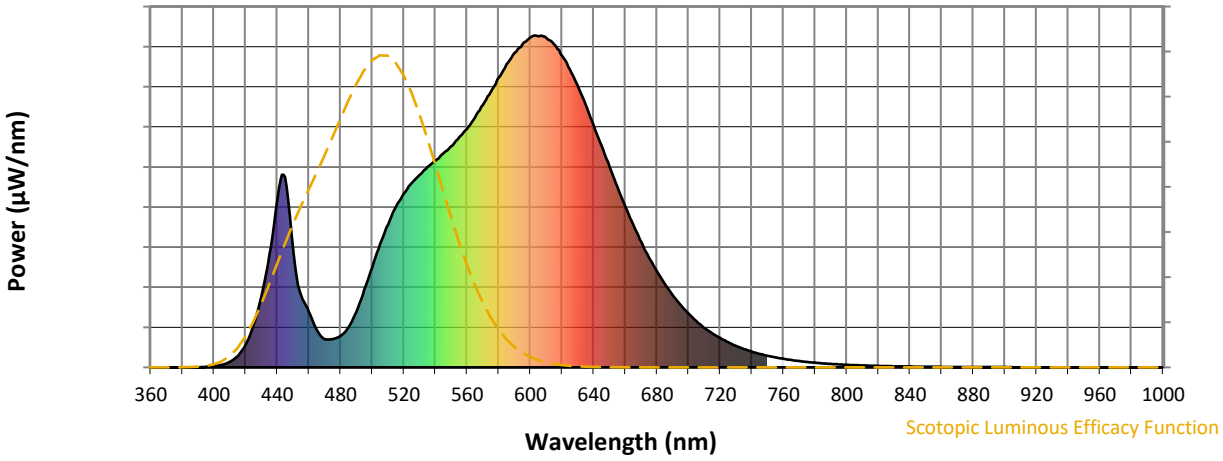
Scotopic Flux vs. Wavelength



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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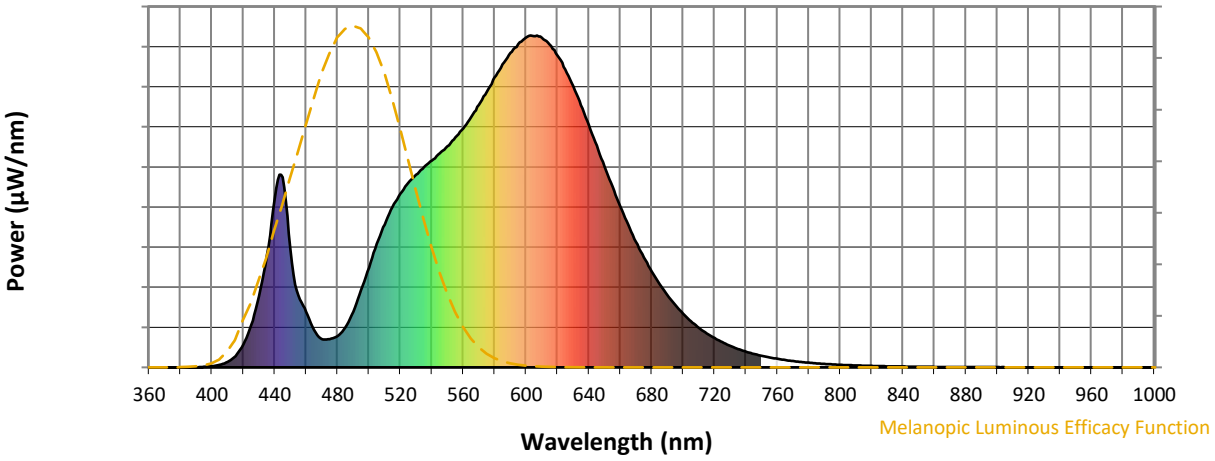
Melanopic Flux vs. Wavelength



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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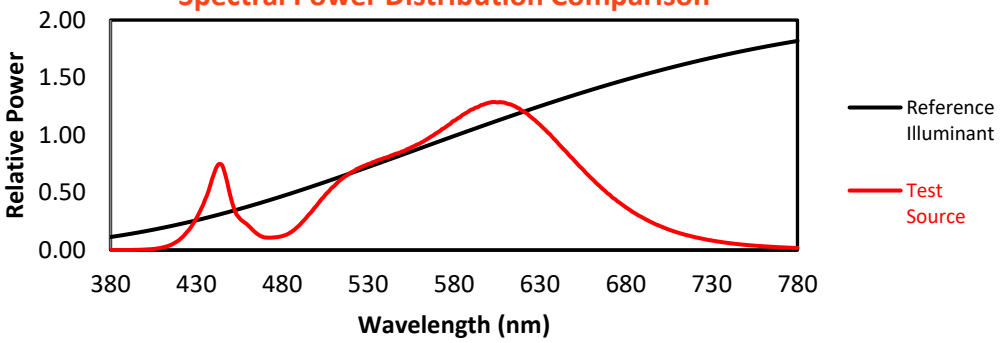
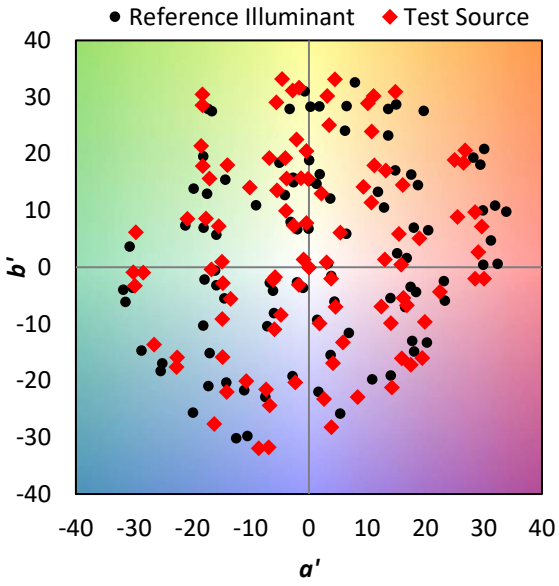
Summary

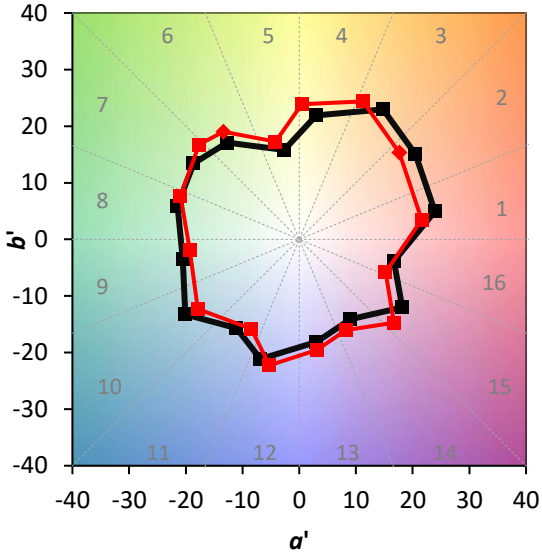
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

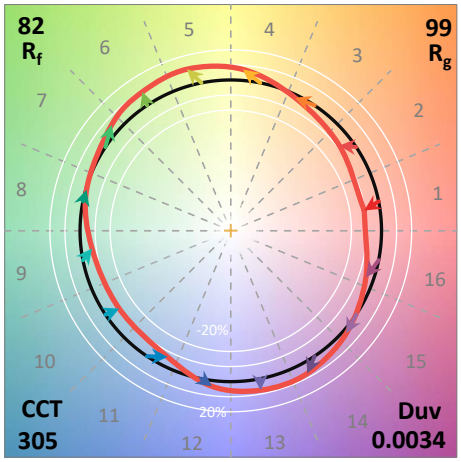
Spectral Power Distribution Comparison

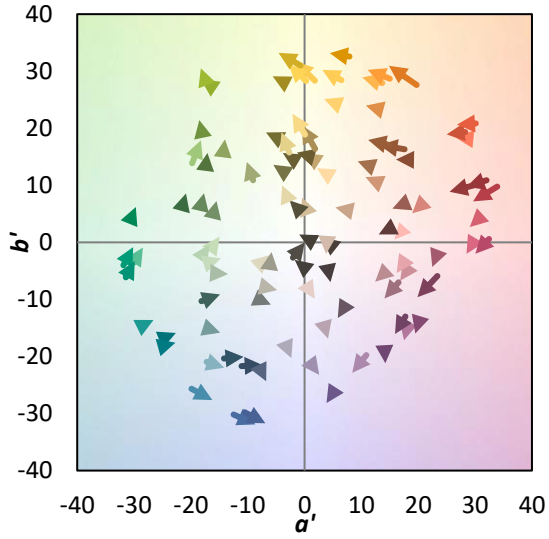


Color Vector Graphics









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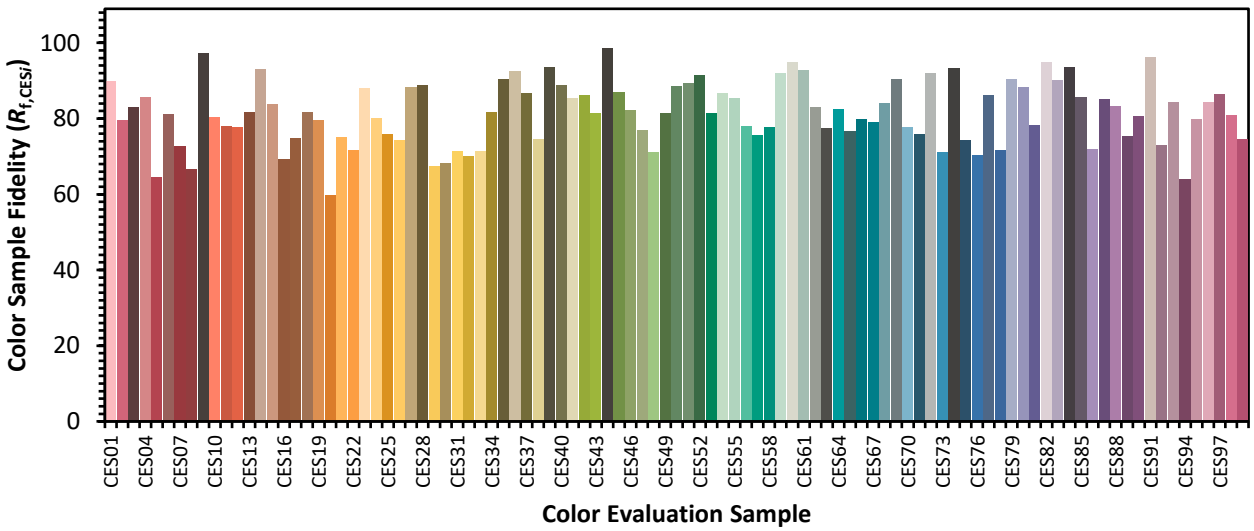
Individual Sample Fidelity Index ($R_{f,i}$)

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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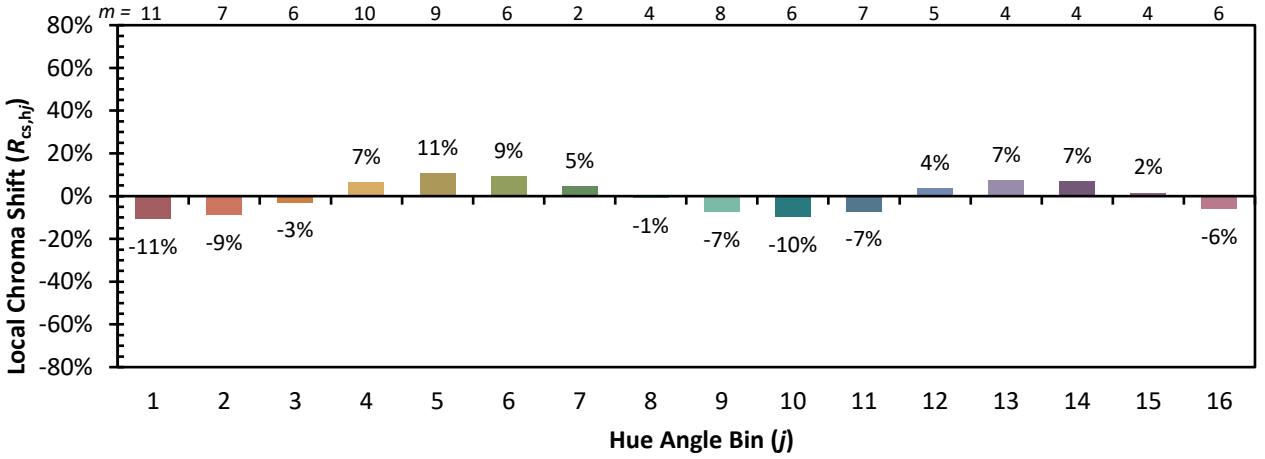
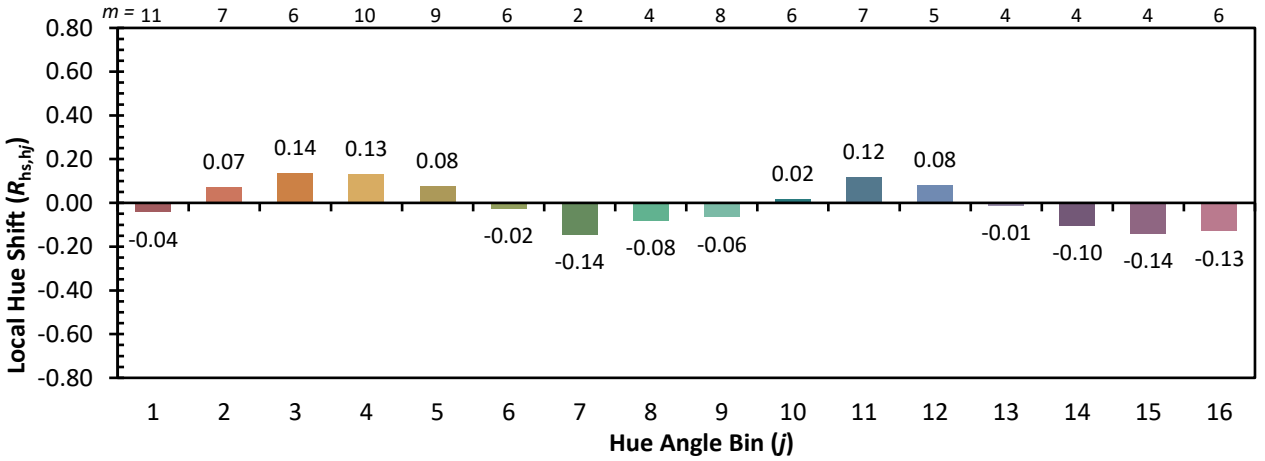
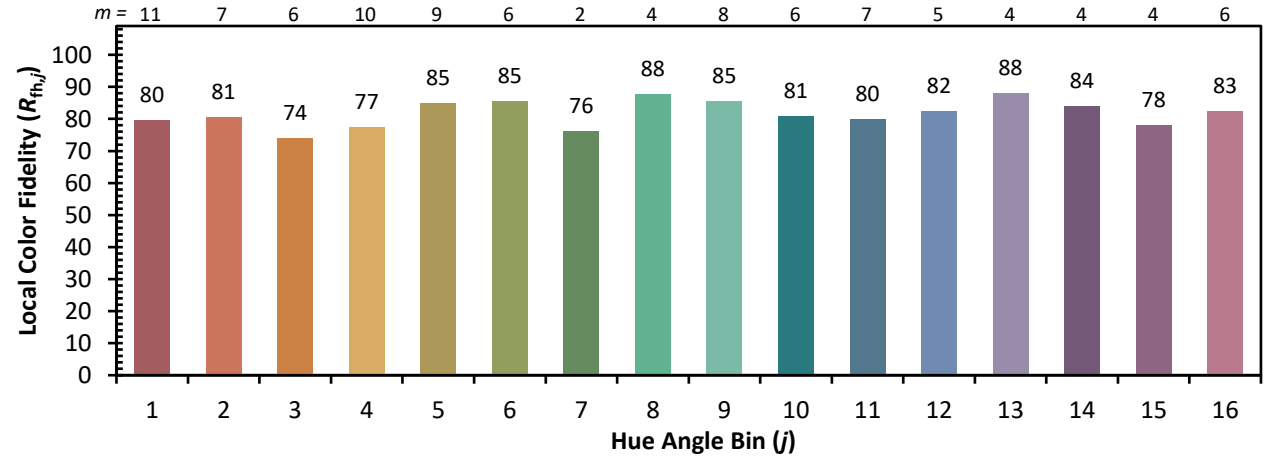
Color Rendition by Hue-Angle Bin







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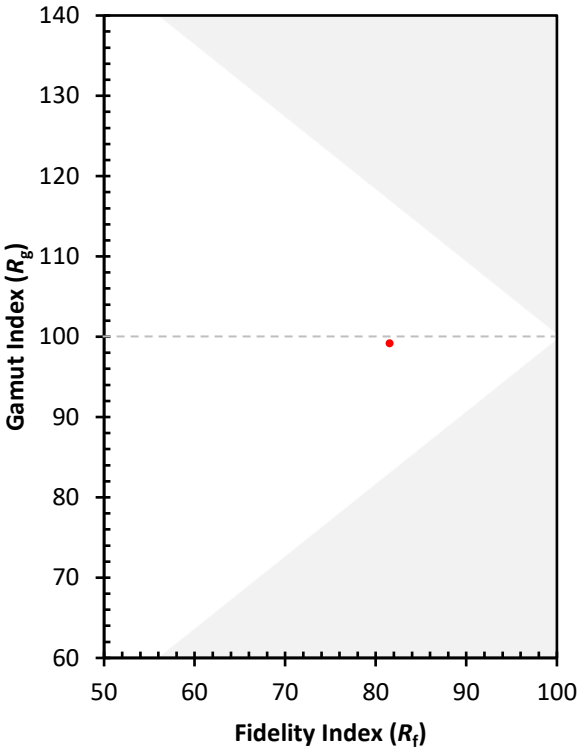
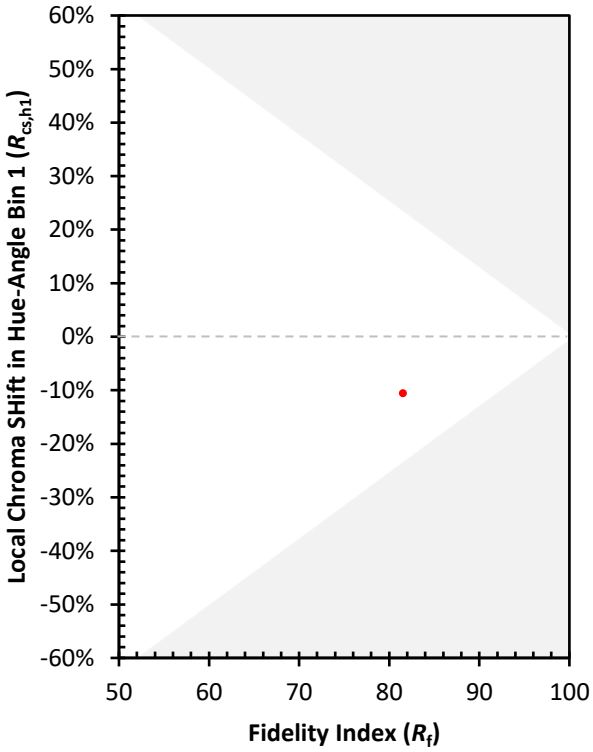
Measure Comparisons





(END OF REPORT)