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: P321768

Luminaire Tested: **GLEON-SA4C-830-U-T3R-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:	P321768
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
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-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17438 lumens
Efficiency:	N/A
Efficacy:	77.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

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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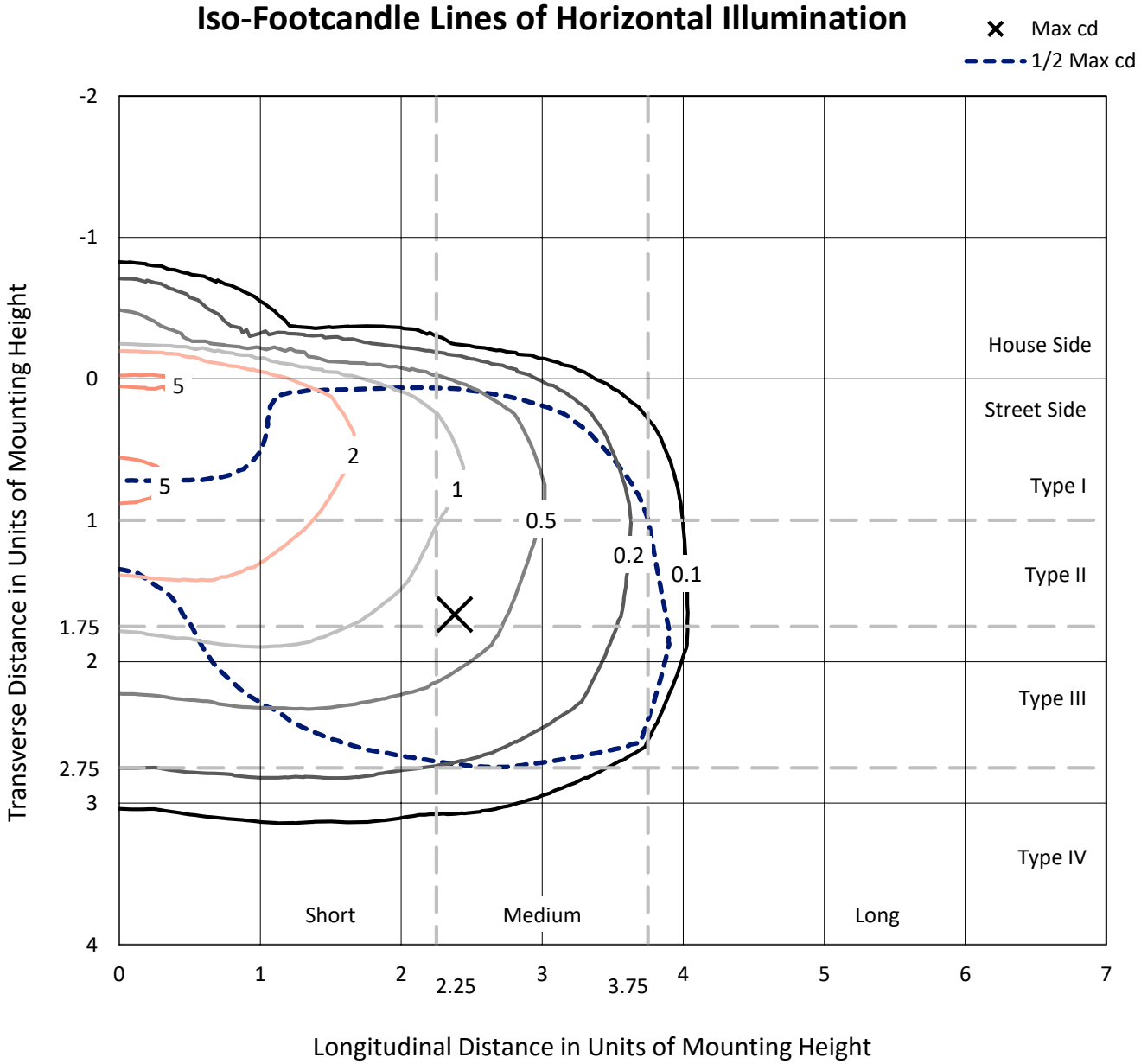
Scaled Data Report

REPORT NUMBER: P321768
CATALOG NUMBER: GLEON-SA4C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Medium - N/A

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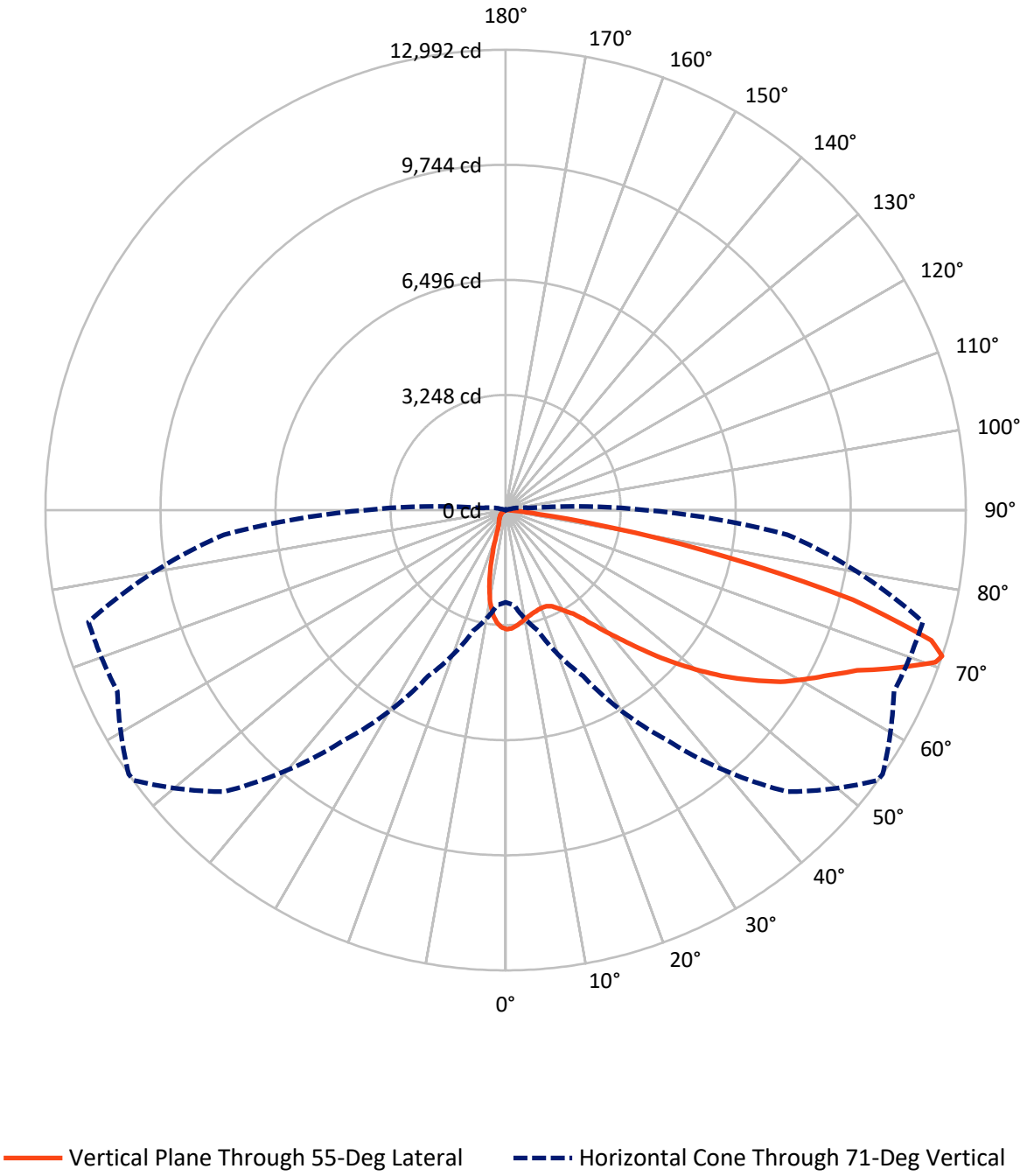
Luminous Intensity Polar Plot



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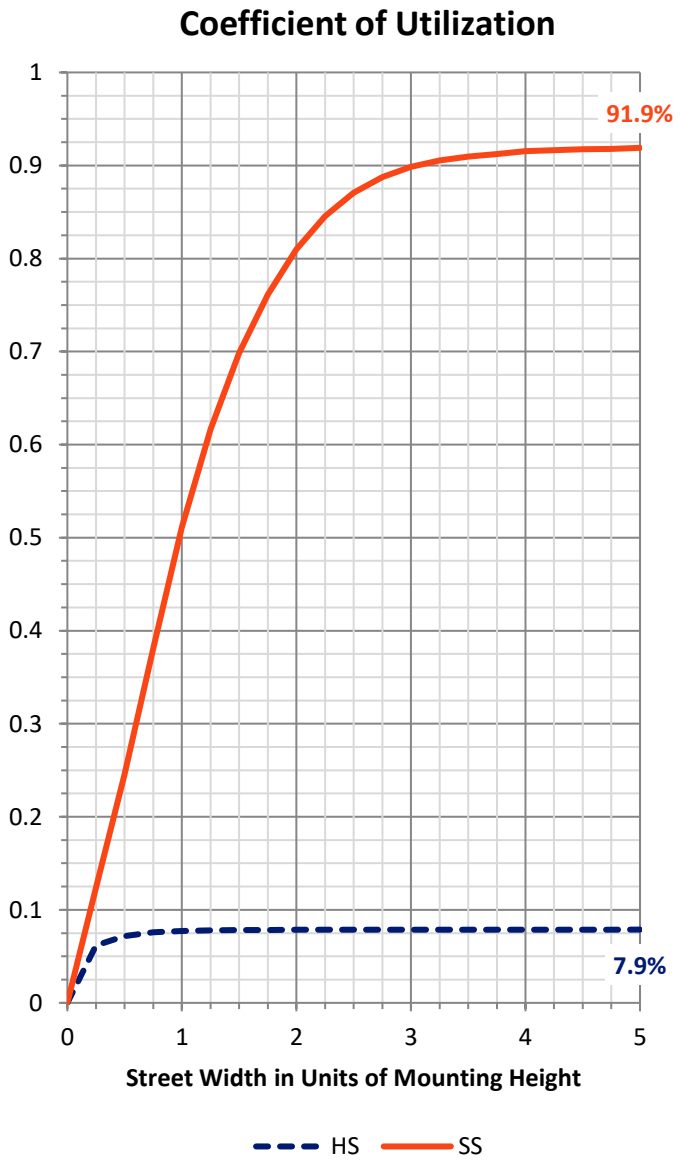
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.6	0.0	1380.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16057.4	0.0	16057.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	17438.0	0.0	17438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.6
10°-20°	647.3	3.7
20°-30°	1040.3	6.0
30°-40°	1767.5	10.1
40°-50°	2743.4	15.7
50°-60°	3688.4	21.2
60°-70°	4512.2	25.9
70°-80°	2638.1	15.1
80°-90°	114.0	0.7
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°	17438.0	100.0
0°-180°	17438.0	100.0



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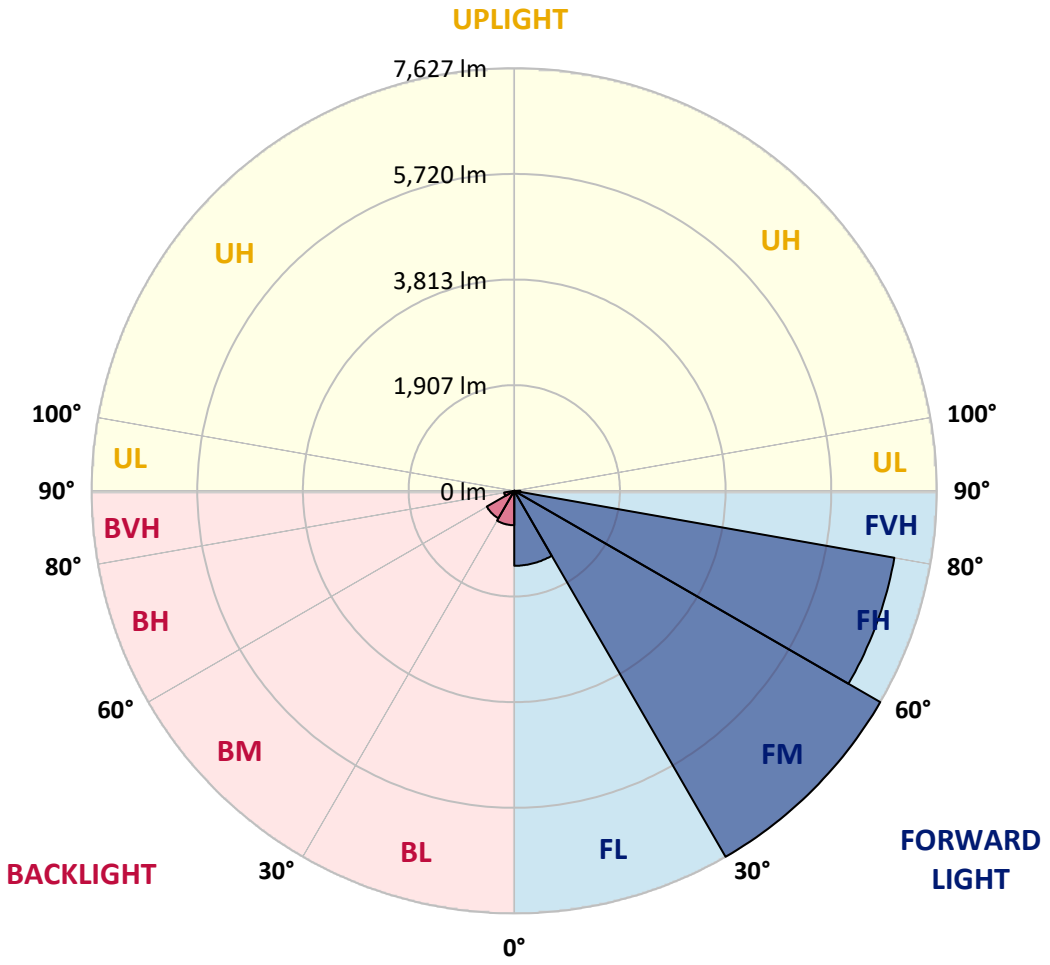
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1352.9	7.8			
FM	(30°-60°)	7626.9	43.7			
FH	(60°-80°)	6965.3	39.9			G3/7500
FVH	(80°-90°)	112.2	0.6			G2/225
BL	(0°-30°)	621.4	3.6	B2/1000		
BM	(30°-60°)	572.4	3.3	B1/1000		
BH	(60°-80°)	185.0	1.1	B1/500		G1/500
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-G3
Type III Medium



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REPORT NUMBER: P321768
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	3264.3	3268.2	3282.3	3288.6	3303.5	3328.5	3341.1	3341.8	3362.2	3370.0	3376.3
5°	3033.3	3056.8	3080.3	3105.4	3150.8	3211.1	3270.6	3276.1	3341.8	3390.4	3416.2
7.5°	2834.5	2855.6	2883.8	2923.7	2987.9	3082.7	3182.1	3193.9	3318.3	3428.8	3486.7
10°	2630.1	2647.3	2688.0	2746.8	2835.2	2962.1	3096.0	3115.6	3297.2	3480.4	3582.2
12.5°	2411.6	2421.8	2471.1	2555.7	2685.7	2847.0	3023.2	3049.0	3283.9	3539.9	3695.0
15°	2245.6	2250.3	2297.3	2385.0	2533.8	2743.6	2966.8	2998.1	3287.0	3611.2	3817.9
17.5°	2203.4	2205.7	2230.8	2291.1	2422.6	2651.2	2922.2	2960.5	3296.4	3680.9	3941.6
20°	2374.8	2358.4	2332.6	2323.2	2379.5	2595.6	2895.5	2938.6	3309.0	3742.7	4052.8
22.5°	2845.4	2796.9	2689.6	2546.3	2459.4	2599.6	2902.6	2945.6	3348.9	3818.7	4181.2
25°	3543.9	3476.5	3294.1	3012.2	2741.3	2712.3	2961.3	3005.2	3426.4	3909.5	4304.1
27.5°	4338.6	4272.0	4048.9	3646.4	3184.5	2935.5	3096.0	3136.7	3541.5	3990.2	4398.1
30°	5099.7	5080.9	4817.8	4360.5	3742.0	3297.2	3269.8	3304.3	3626.9	4038.7	4472.5
32.5°	5744.9	5715.1	5503.7	5059.0	4380.1	3731.8	3474.2	3484.3	3691.1	4101.3	4569.6
35°	6343.1	6306.3	6120.7	5700.2	5034.7	4262.6	3788.9	3774.1	3831.2	4227.4	4710.5
37.5°	6865.3	6899.0	6693.1	6293.0	5621.9	4814.7	4213.3	4168.7	4050.5	4432.6	4914.9
40°	7302.2	7302.2	7195.0	6861.4	6256.2	5385.5	4693.3	4634.6	4380.1	4748.9	5174.1
42.5°	7459.6	7493.3	7533.2	7344.5	6823.8	5979.0	5228.1	5167.0	4844.4	5197.5	5501.4
45°	7469.0	7522.3	7726.6	7725.9	7336.7	6568.6	5831.0	5802.0	5439.5	5773.8	5906.9
47.5°	7336.7	7403.3	7739.9	7931.0	7743.1	7117.5	6490.3	6454.3	6138.7	6480.1	6331.3
50°	7132.3	7205.9	7597.4	8011.6	8019.5	7595.1	7184.8	7130.8	6908.4	7287.4	6769.8
52.5°	6766.7	6909.2	7469.8	8030.4	8201.1	8007.7	7845.7	7822.2	7769.7	8064.9	7119.0
55°	5984.5	6142.6	7149.6	8036.7	8369.5	8373.4	8465.0	8471.3	8577.0	8791.5	7379.0
57.5°	5614.9	5704.1	6590.5	8066.5	8619.3	8788.4	9096.1	9144.6	9308.3	9481.3	7675.7
60°	5382.3	5488.0	6314.9	8025.7	9011.5	9332.6	9681.0	9697.4	9872.8	10193.1	8077.4
62.5°	5196.8	5300.9	6141.1	7869.1	9452.4	9987.2	10252.6	10254.2	10385.7	11041.1	8533.9
65°	4738.7	4826.4	5789.5	7693.0	9743.6	10634.7	10916.6	10906.4	11013.7	11935.3	9064.0
67.5°	4076.3	4143.6	5071.5	7025.1	9634.0	11223.5	11918.8	11885.1	11755.2	12708.1	9272.3
70°	3151.6	3175.8	3997.2	5854.5	8606.7	11449.8	12887.4	12870.2	12210.1	12569.5	8508.9
71°	2605.0	2684.9	3522.7	5167.0	7918.5	11240.7	12981.3	12991.5	12095.8	12192.1	7983.5
72.5°	1512.8	1580.9	2553.4	3968.2	6722.8	10368.5	12494.3	12567.9	11561.8	11089.6	6819.1
75°	324.2	346.9	946.6	1920.7	3698.1	7267.0	9861.9	10124.2	9423.4	7544.2	4110.0
77.5°	225.5	243.5	405.6	871.5	1222.3	3590.8	6126.2	6422.2	5629.8	2835.2	1315.4
80°	178.5	198.9	316.3	430.6	330.4	1158.1	2869.7	3050.6	1877.6	632.7	221.6
82.5°	99.4	118.2	246.6	232.6	126.8	220.0	803.4	908.3	375.8	127.6	52.5
85°	29.0	35.2	158.9	169.1	54.0	42.3	137.0	169.9	71.3	33.7	23.5
87.5°	0.0	0.0	76.7	65.0	15.7	6.3	12.5	14.1	14.1	14.1	15.7
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: P321768
CATALOG NUMBER: GLEON-SA4C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0	3363.0
2.5°	3376.3	3381.8	3362.2	3336.4	3309.0	3275.3	3240.1	3212.6	3211.9	3198.6	3185.2
5°	3417.8	3414.7	3360.6	3278.4	3181.3	3080.3	2984.0	2875.2	2839.2	2794.5	2779.6
7.5°	3494.5	3472.6	3358.3	3178.2	2965.2	2753.8	2535.4	2315.3	2221.4	2136.8	2121.9
10°	3590.8	3549.3	3343.4	3027.9	2637.1	2247.2	1917.6	1618.5	1486.9	1385.9	1381.2
12.5°	3691.1	3627.6	3301.9	2800.8	2207.3	1659.2	1279.4	985.0	875.4	804.9	811.2
15°	3796.0	3701.2	3212.6	2494.6	1717.9	1126.0	786.1	613.1	569.2	551.2	555.9
17.5°	3903.3	3752.1	3088.1	2125.8	1234.8	726.6	544.2	495.6	495.6	499.6	501.1
20°	3996.4	3779.5	2904.9	1712.4	837.0	529.3	476.1	469.0	472.9	479.2	480.0
22.5°	4088.8	3781.1	2666.1	1293.5	585.7	463.5	453.4	450.2	452.6	459.6	460.4
25°	4164.0	3762.3	2367.0	920.0	467.5	436.9	432.2	430.6	432.2	440.8	440.8
27.5°	4194.5	3694.2	2002.1	646.8	418.9	407.2	405.6	407.2	409.5	415.8	416.6
30°	4197.7	3575.2	1604.4	468.2	379.8	367.2	370.4	375.8	373.5	371.9	373.5
32.5°	4205.5	3437.4	1216.8	385.2	346.9	327.3	323.4	323.4	314.0	308.5	305.4
35°	4231.3	3275.3	882.4	346.1	313.2	290.5	275.6	258.4	240.4	231.0	228.6
37.5°	4272.0	3105.4	631.9	320.2	283.4	257.6	229.4	198.9	173.0	166.0	166.0
40°	4346.4	2930.0	467.5	299.9	260.0	227.9	185.6	145.6	122.1	118.2	118.2
42.5°	4463.9	2745.2	372.7	281.9	239.6	197.3	141.7	105.7	88.5	86.1	85.3
45°	4586.0	2541.6	325.7	264.7	217.7	162.1	104.9	78.3	68.1	65.8	65.8
47.5°	4708.2	2324.7	303.0	248.2	196.5	126.1	78.3	61.9	57.2	57.2	57.9
50°	4811.5	2098.4	286.6	230.2	169.1	95.5	61.9	52.5	50.9	54.0	54.8
52.5°	4837.4	1876.1	266.2	207.5	135.5	72.8	50.9	46.2	46.2	46.2	46.2
55°	4821.7	1703.8	239.6	179.3	100.2	57.9	43.8	40.7	39.9	39.9	39.9
57.5°	4875.0	1602.0	191.8	139.4	72.0	47.0	38.4	36.0	34.5	33.7	33.7
60°	4982.2	1535.5	137.0	100.2	54.0	39.1	32.9	30.5	28.2	26.6	26.6
62.5°	5124.7	1477.5	101.8	74.4	41.5	31.3	27.4	25.1	21.9	20.4	20.4
65°	5234.3	1374.2	77.5	55.6	31.3	25.1	21.1	20.4	15.7	14.1	13.3
67.5°	5066.8	1147.1	62.6	40.7	23.5	19.6	16.4	15.7	9.4	7.8	7.8
70°	4345.6	798.7	50.1	29.8	17.2	15.7	13.3	10.2	7.0	6.3	6.3
71°	*3940.8*	*667.1*	*45.4*	*25.1*	*14.9*	*14.9*	*12.5*	*8.6*	*6.3*	*5.5*	*5.5*
72.5°	3273.7	473.7	38.4	19.6	13.3	15.7	13.3	7.8	6.3	5.5	4.7
75°	1900.3	198.1	26.6	13.3	10.2	18.8	17.2	7.0	4.7	3.9	3.9
77.5°	571.6	72.8	14.9	8.6	7.8	16.4	19.6	6.3	2.3	0.8	0.8
80°	104.1	31.3	9.4	5.5	5.5	10.2	14.9	3.1	0.0	0.0	0.0
82.5°	36.8	15.7	5.5	3.1	2.3	4.7	7.0	0.0	0.0	0.0	0.0
85°	21.1	11.0	3.1	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.1	3.1	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

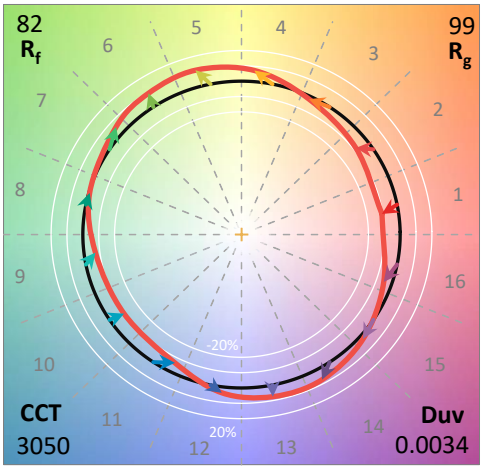
Test Information

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

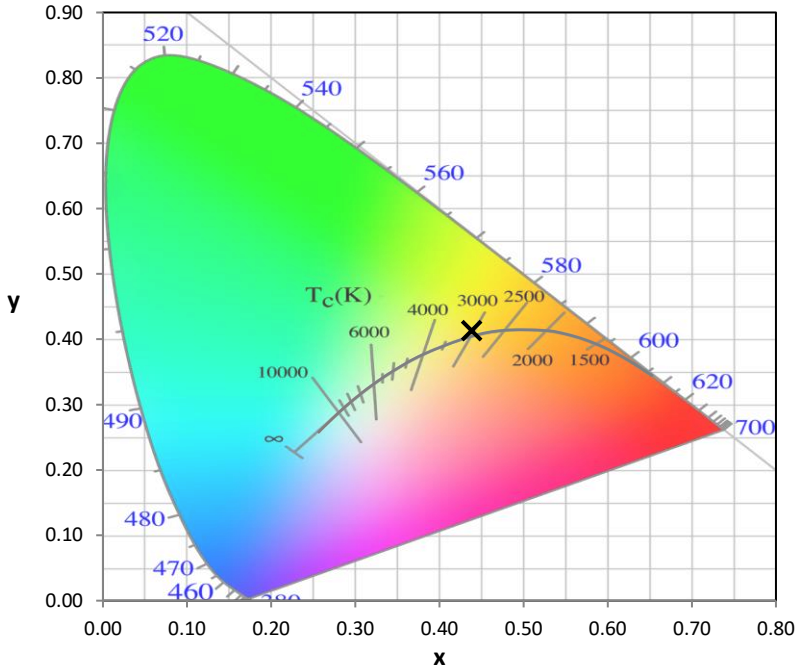
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

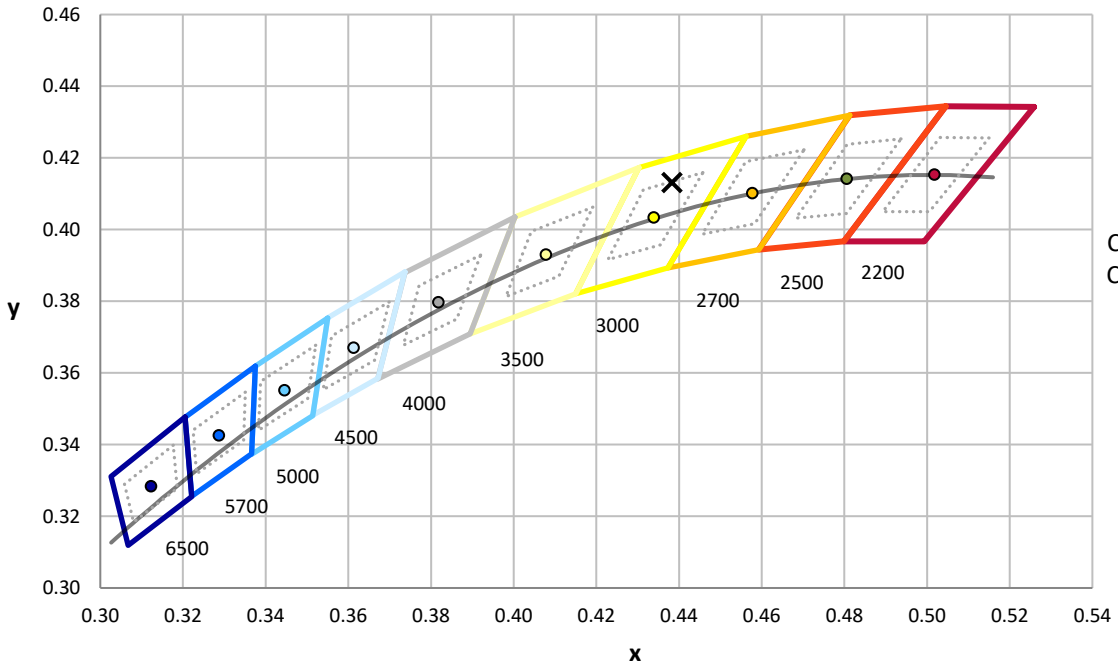
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

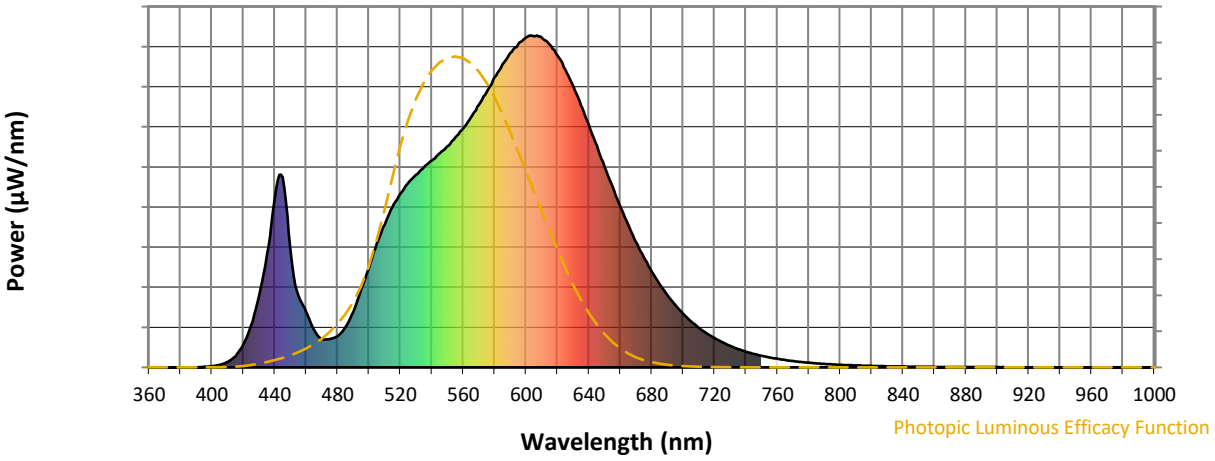


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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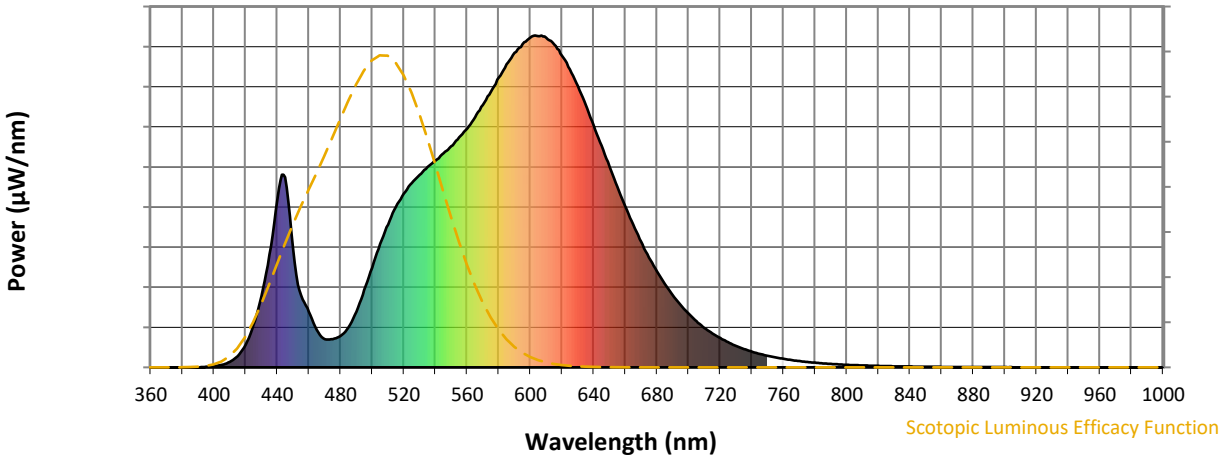
Scotopic Flux vs. Wavelength



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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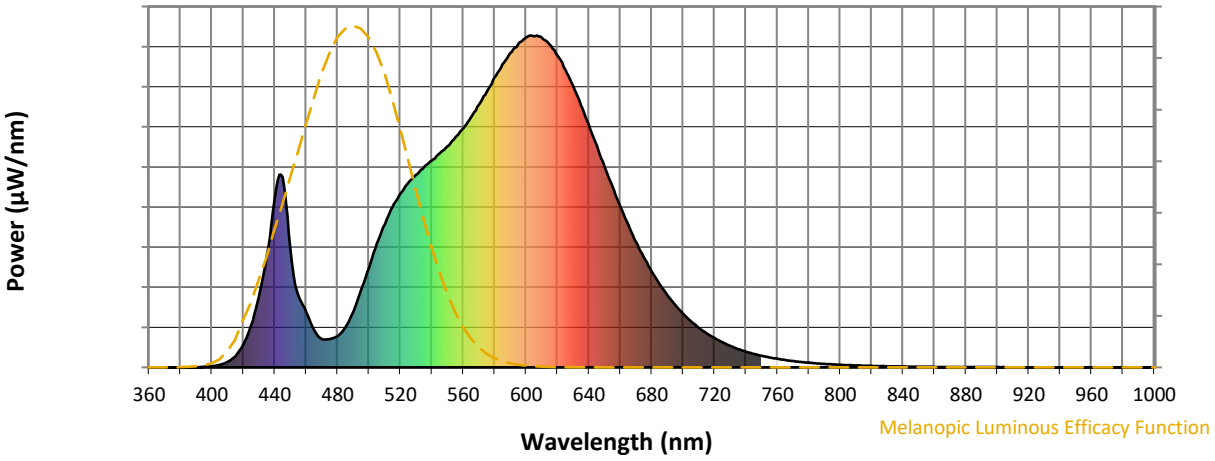
Melanopic Flux vs. Wavelength



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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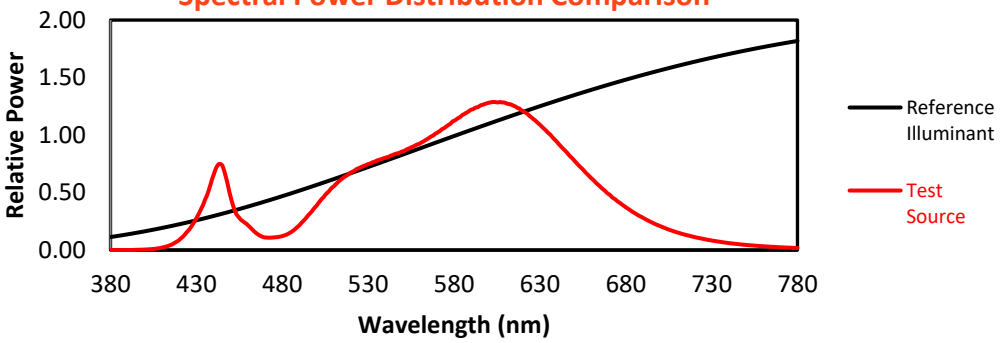
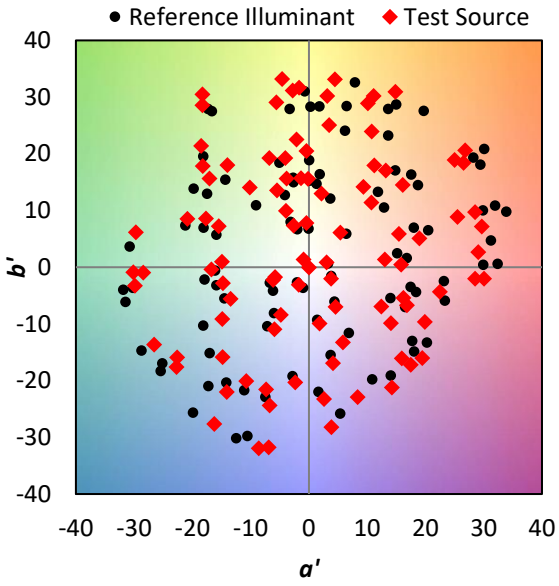
Summary

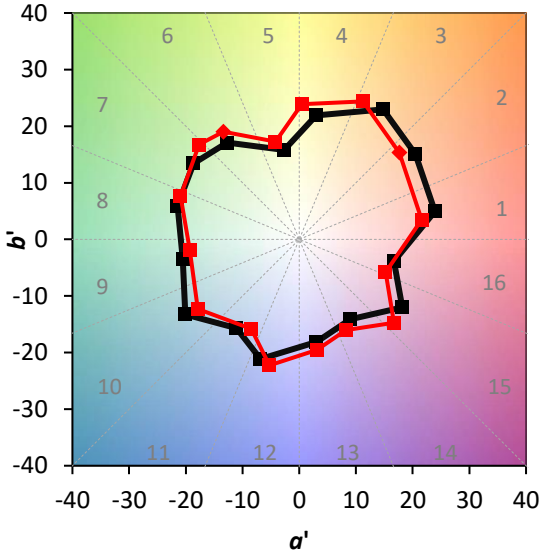
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

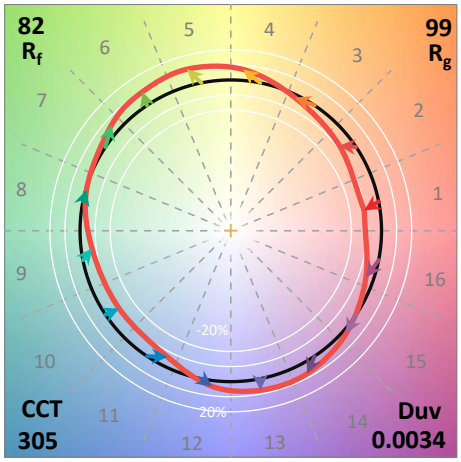
Spectral Power Distribution Comparison

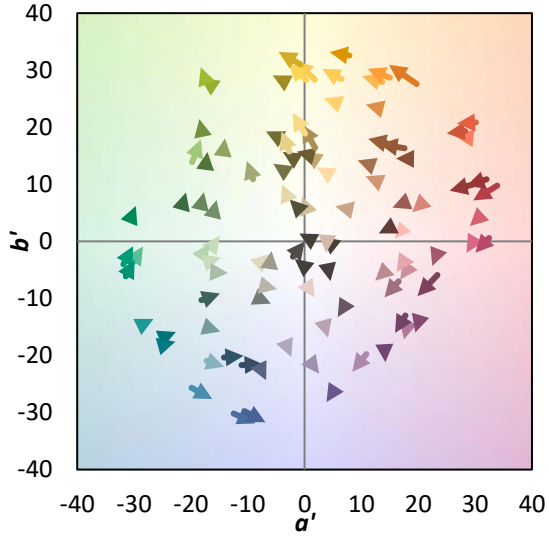


Color Vector Graphics









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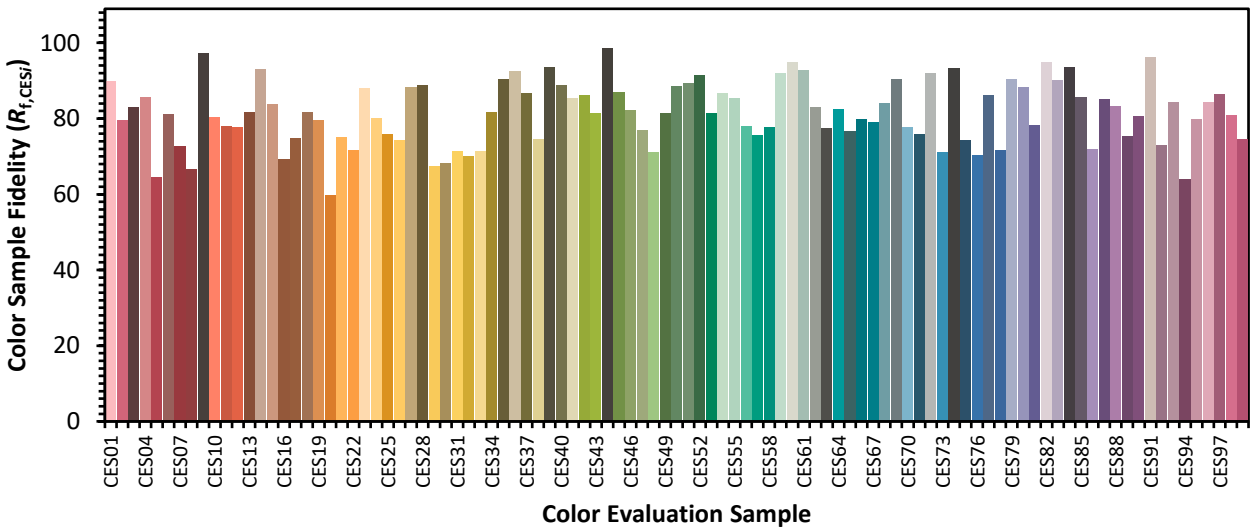
Individual Sample Fidelity Index ($R_{f,i}$)

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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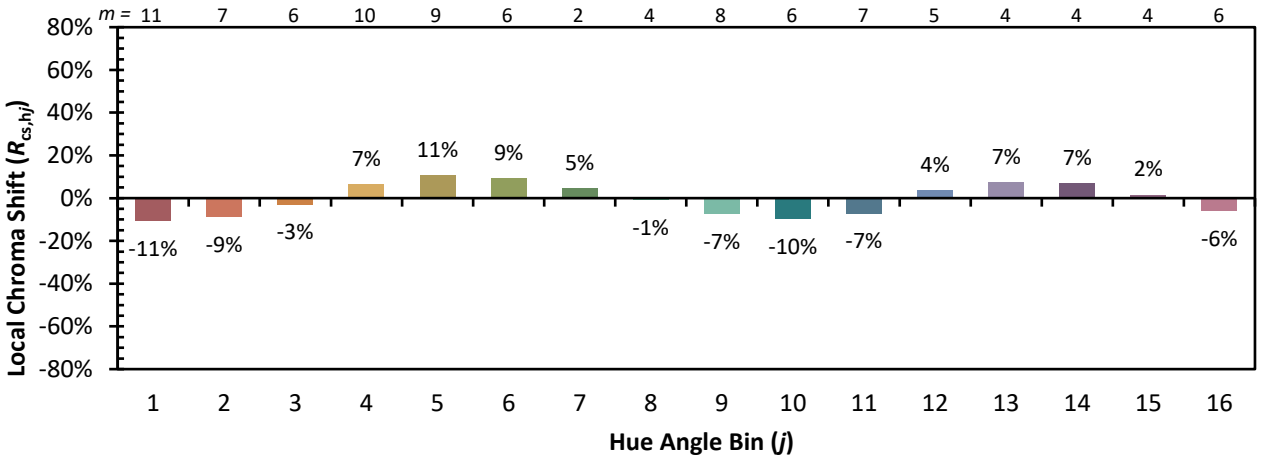
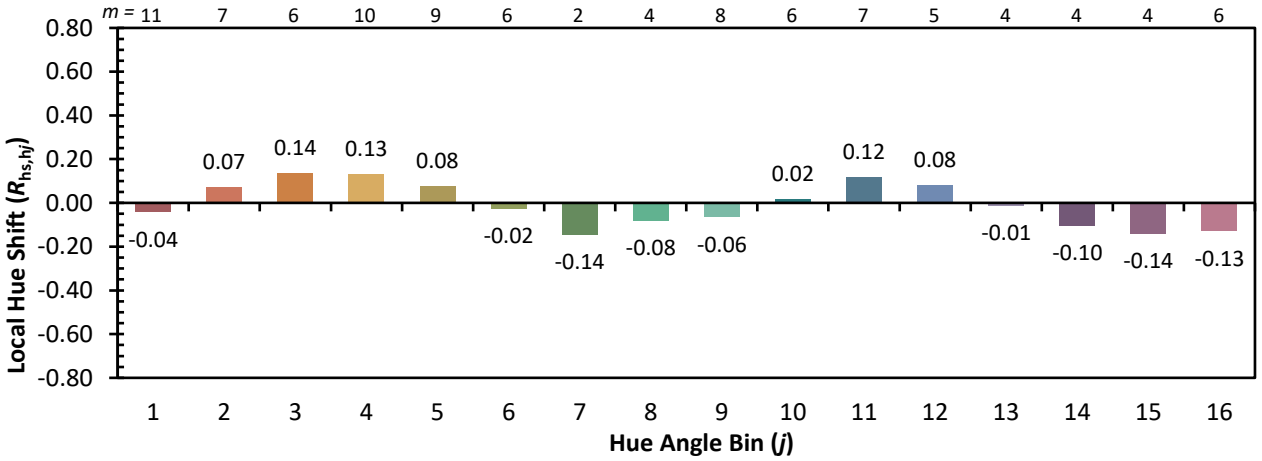
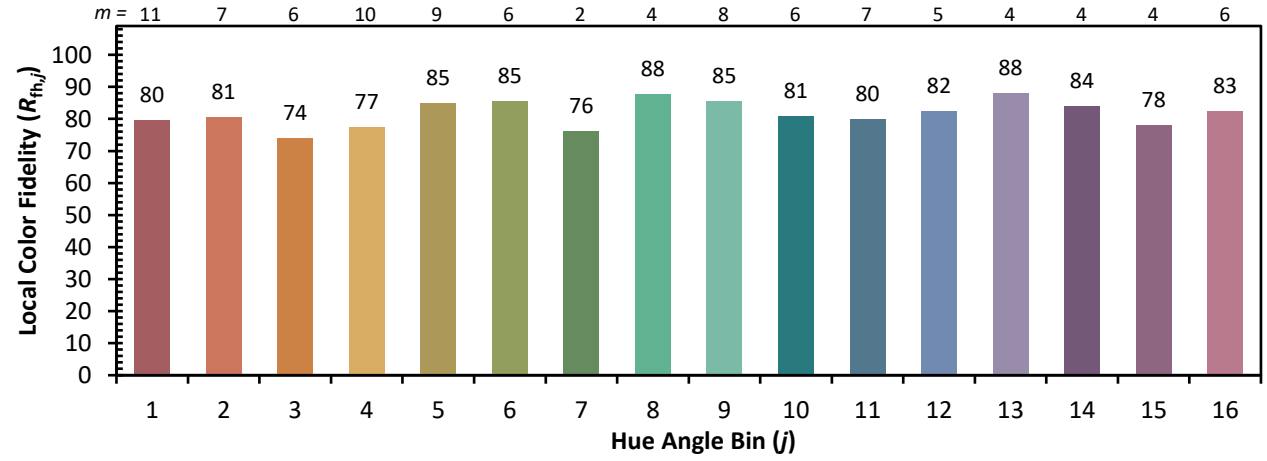
Color Rendition by Hue-Angle Bin







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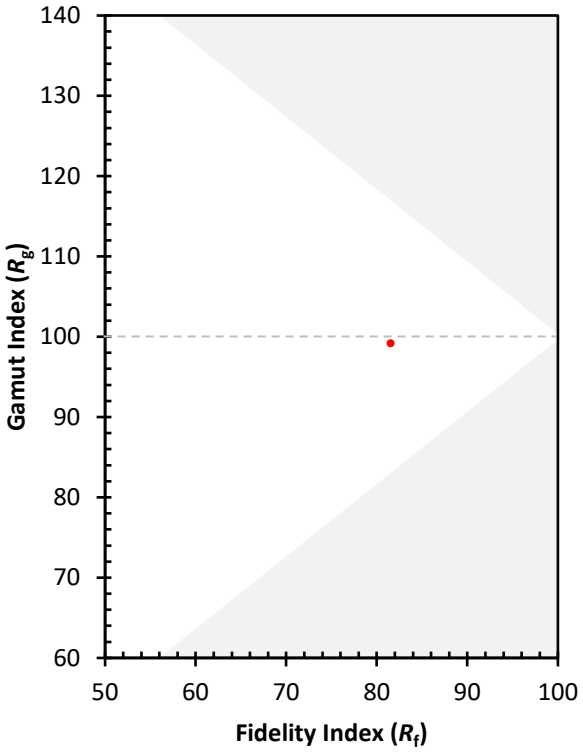
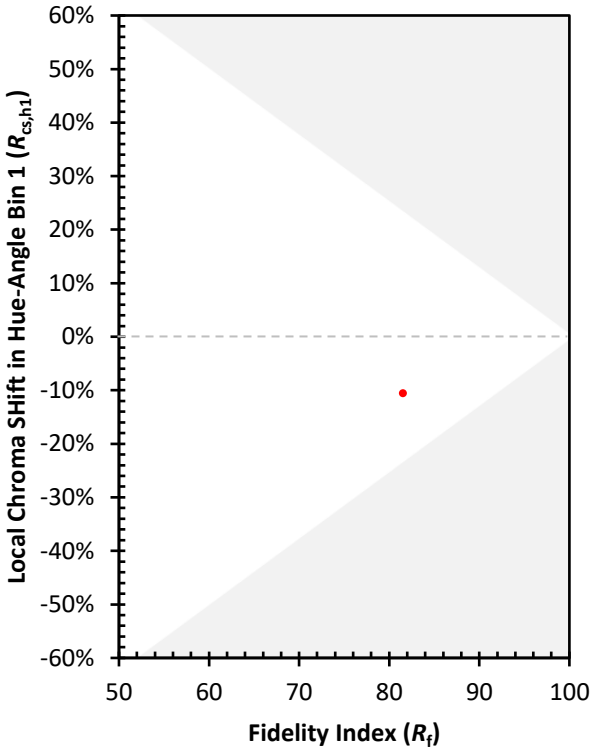
Measure Comparisons





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