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: P322419

Luminaire Tested: **GLEON-SA5D-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:	P322419
	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-SA5D-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 1200mA 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:	22457 lumens
Efficiency:	N/A
Efficacy:	70.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	320
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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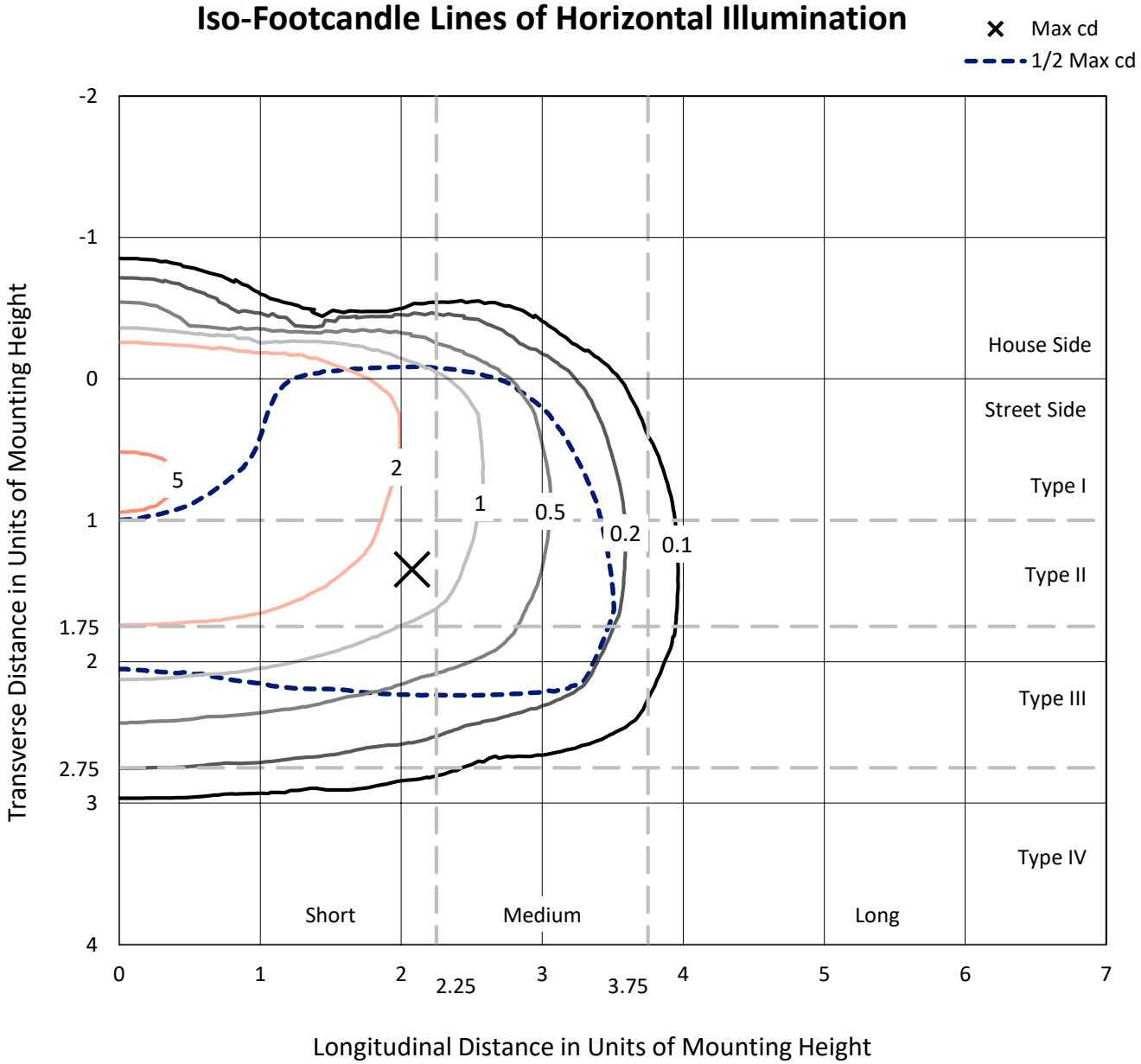
Scaled Data Report

REPORT NUMBER: P322419
CATALOG NUMBER: GLEON-SA5D-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



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

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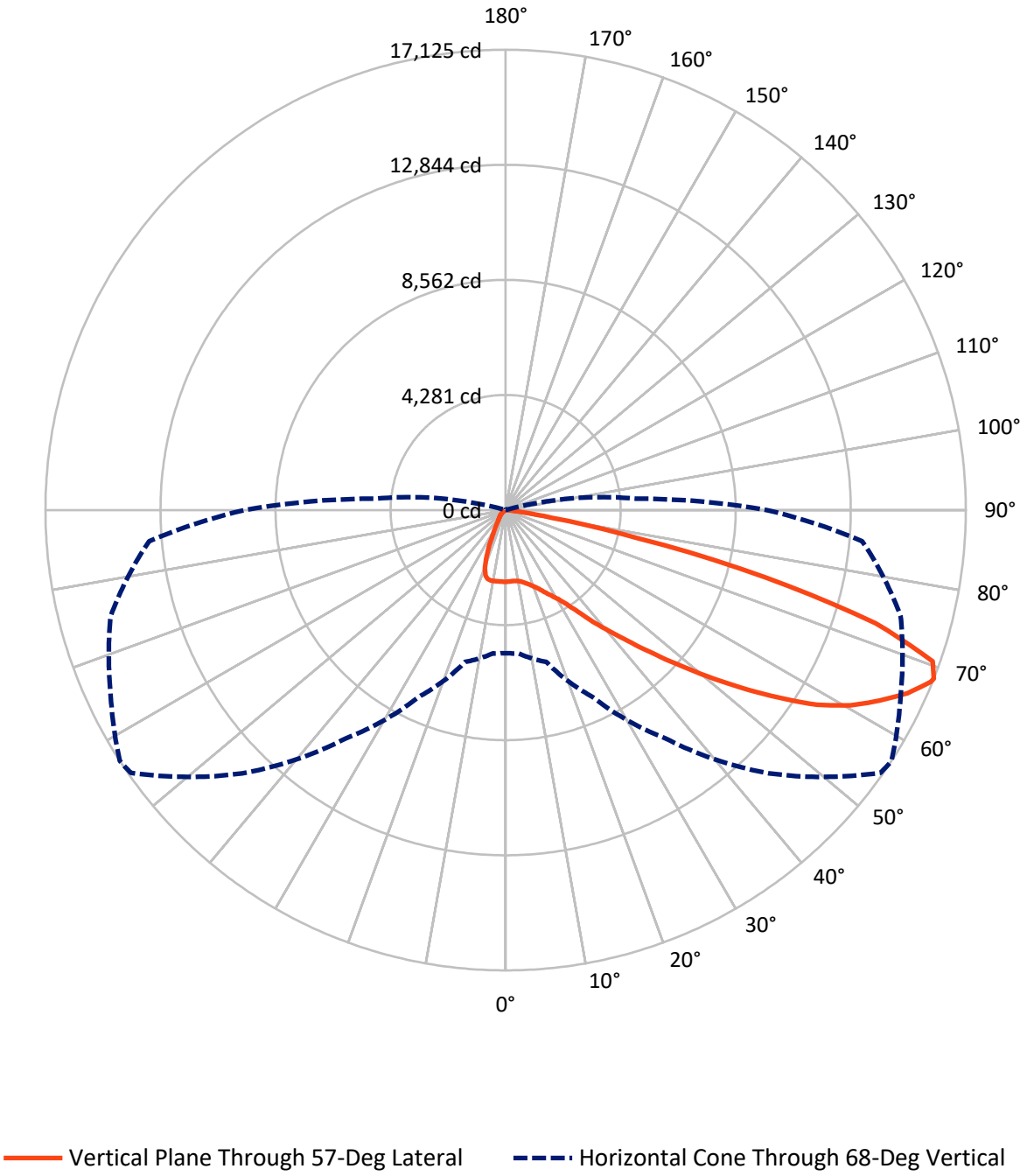
Luminous Intensity Polar Plot



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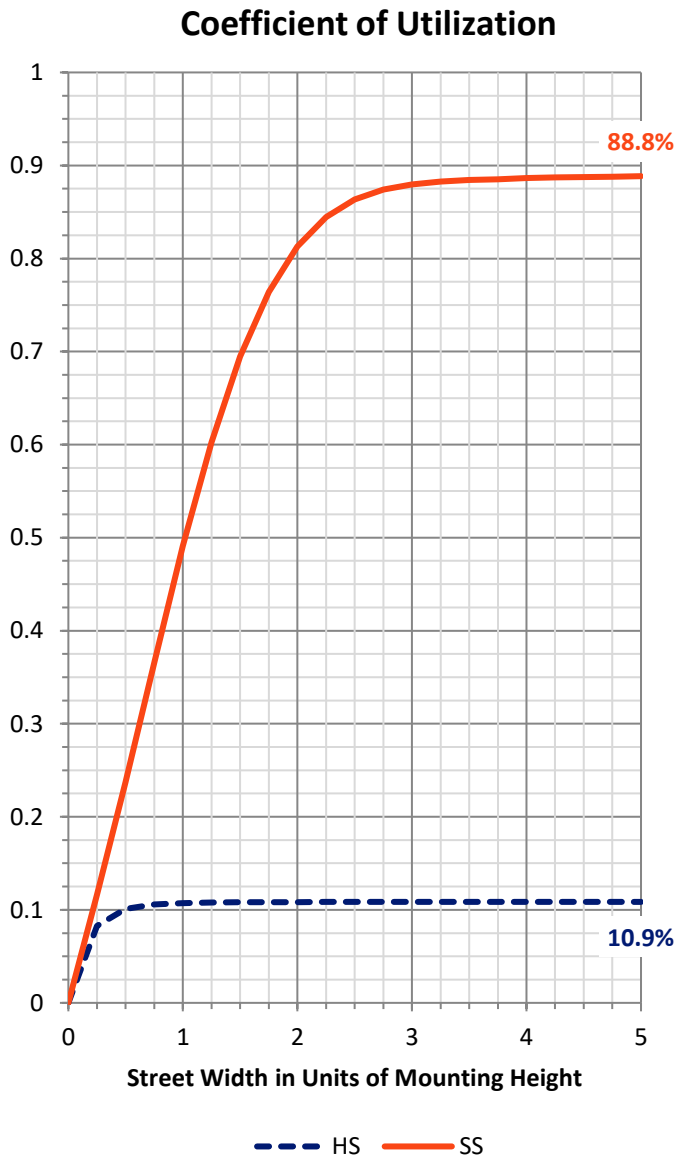
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2462.6	0.0	2462.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	19994.5	0.0	19994.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	22457.0	0.0	22457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	1.1
10°-20°	692.0	3.1
20°-30°	1193.8	5.3
30°-40°	2060.5	9.2
40°-50°	3524.4	15.7
50°-60°	5638.8	25.1
60°-70°	6515.0	29.0
70°-80°	2489.5	11.1
80°-90°	93.3	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°	22457.0	100.0
0°-180°	22457.0	100.0



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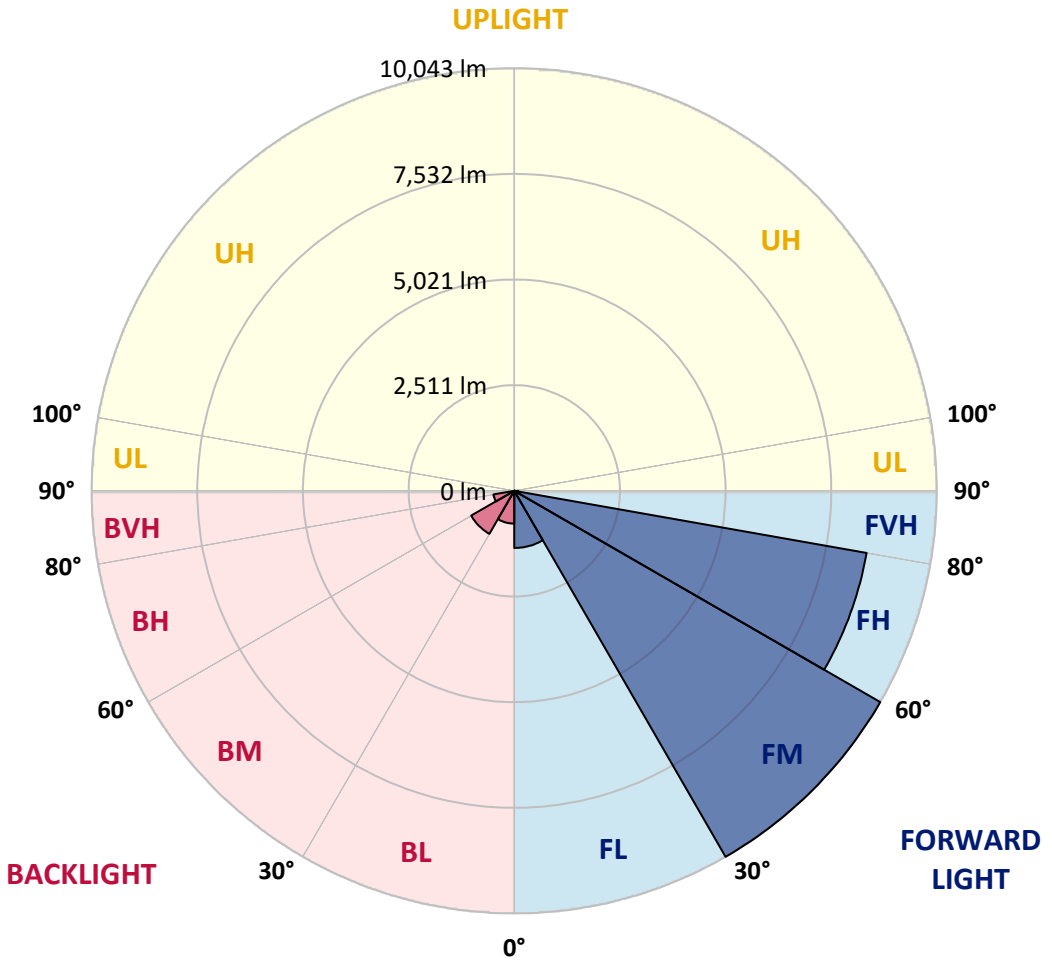
REPORT NUMBER: P322419
CATALOG NUMBER: GLEON-SA5D-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1357.3	6.0			
FM	(30°-60°)	10042.6	44.7			
FH	(60°-80°)	8502.9	37.9			G4/12000
FVH	(80°-90°)	91.6	0.4			G1/100
BL	(0°-30°)	778.2	3.5	B2/1000		
BM	(30°-60°)	1181.1	5.3	B2/2500		
BH	(60°-80°)	501.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.7	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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Scaled Data Report

REPORT NUMBER: P322419
CATALOG NUMBER: GLEON-SA5D-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5
2.5°	2605.8	2617.5	2626.0	2631.3	2637.7	2651.5	2655.7	2662.1	2665.3	2665.3	2672.7
5°	2502.8	2515.6	2533.6	2548.5	2578.2	2616.5	2644.1	2654.7	2673.8	2690.8	2700.3
7.5°	2407.3	2422.1	2443.4	2478.4	2529.4	2591.0	2648.3	2663.2	2700.3	2736.4	2754.5
10°	2345.7	2357.4	2385.0	2434.9	2501.8	2587.8	2668.5	2686.5	2750.2	2810.8	2844.8
12.5°	2324.4	2335.1	2363.7	2420.0	2502.8	2603.7	2715.2	2741.8	2835.2	2923.3	2971.1
15°	2355.2	2357.4	2388.1	2441.2	2523.0	2643.0	2792.7	2824.6	2942.4	3057.1	3116.6
17.5°	2474.2	2464.6	2480.5	2503.9	2568.7	2695.0	2874.5	2922.3	3079.4	3214.3	3270.6
20°	2771.5	2771.5	2735.4	2671.7	2672.7	2775.7	2984.9	3039.1	3231.3	3387.4	3438.3
22.5°	3280.1	3270.6	3198.4	3042.3	2898.9	2914.8	3119.8	3189.9	3413.9	3580.6	3597.6
25°	3891.8	3880.1	3768.6	3548.8	3300.3	3140.0	3302.4	3383.1	3631.6	3779.2	3744.2
27.5°	4539.5	4529.9	4419.5	4146.6	3793.0	3498.9	3520.1	3596.6	3853.5	3999.0	3887.5
30°	5167.1	5170.3	5060.9	4780.5	4380.2	3956.5	3796.2	3840.8	4069.1	4216.7	4057.4
32.5°	5763.8	5768.1	5673.6	5360.3	4986.5	4488.5	4178.5	4166.8	4319.7	4465.2	4282.5
35°	6295.8	6306.5	6241.7	5998.5	5602.4	5081.1	4674.4	4646.8	4675.4	4840.0	4627.6
37.5°	6808.7	6815.1	6766.2	6561.3	6230.0	5732.0	5300.9	5261.6	5200.0	5326.3	5083.2
40°	7370.5	7354.5	7298.2	7112.4	6827.8	6450.9	5974.1	5906.1	5798.9	5911.4	5682.1
42.5°	7892.9	7874.8	7884.4	7674.1	7434.2	7189.9	6758.8	6642.0	6579.4	6708.9	6416.9
45°	8545.9	8536.4	8568.2	8385.6	8191.3	8013.9	7658.2	7530.8	7503.2	7655.0	7305.7
47.5°	9190.5	9213.9	9312.6	9235.1	9156.5	9000.4	8610.7	8553.4	8570.4	8754.1	8243.3
50°	9727.8	9755.4	10026.2	10115.4	10229.0	10137.7	9746.9	9711.9	9778.8	9944.4	9252.1
52.5°	10116.5	10172.7	10509.3	10920.3	11334.4	11396.0	11006.3	10974.4	11064.7	11090.2	10031.5
55°	10386.2	10436.1	10817.3	11569.1	12412.2	12677.7	12435.6	12312.4	12295.4	12043.7	10851.3
57.5°	10434.0	10428.6	10976.6	11988.5	13257.5	13942.4	13789.5	13668.4	13320.1	12925.1	11791.0
60°	10164.2	10195.0	10831.1	12134.0	13788.4	14899.1	14910.8	14753.6	14211.0	13782.0	12702.1
62.5°	9333.9	9459.2	10101.6	11752.8	13782.0	15284.6	15732.7	15612.7	14963.9	14483.9	13625.9
65°	7987.4	8032.0	8644.7	10446.7	12850.8	15123.2	16472.8	16428.2	15642.4	15165.7	14100.6
67.5°	5832.9	5736.2	6379.7	8226.3	10879.9	14182.4	17003.8	17060.0	16165.9	15305.8	13595.1
68°	5323.2	5351.8	5853.0	7677.3	10363.9	13850.0	17038.8	17124.8	16218.0	15214.5	13319.1
70°	3172.9	3228.1	3675.1	5286.0	7884.4	11969.4	16660.8	16857.2	15907.9	14272.6	11520.2
72.5°	810.2	876.0	1298.7	2365.9	4503.4	8433.4	14064.5	14396.9	13811.8	11578.6	7777.1
75°	333.4	350.4	464.0	779.4	1677.8	3799.4	9270.1	9981.6	9574.9	6931.9	3514.8
77.5°	230.4	242.1	298.4	432.2	726.3	1288.1	4544.8	5058.8	4557.6	2365.9	766.7
80°	165.7	175.2	213.4	287.8	417.3	459.8	1481.3	1712.8	1360.3	519.3	190.1
82.5°	98.8	106.2	159.3	204.9	253.8	219.8	368.5	418.4	394.0	258.0	84.9
85°	48.8	57.3	107.2	146.5	137.0	92.4	112.6	125.3	155.0	157.2	45.7
87.5°	3.2	6.4	62.7	88.1	38.2	21.2	32.9	40.4	55.2	77.5	19.1
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: P322419
CATALOG NUMBER: GLEON-SA5D-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5	2668.5
2.5°	2675.9	2677.0	2669.5	2666.4	2668.5	2655.7	2650.4	2652.6	2652.6	2655.7	2650.4
5°	2702.5	2702.5	2689.7	2672.7	2663.2	2638.8	2622.8	2618.6	2615.4	2613.3	2609.0
7.5°	2759.8	2753.4	2731.1	2694.0	2662.1	2609.0	2568.7	2547.4	2536.8	2532.6	2529.4
10°	2852.2	2840.5	2803.3	2734.3	2661.1	2566.5	2478.4	2415.8	2363.7	2342.5	2329.7
12.5°	2976.4	2959.4	2896.8	2782.1	2653.6	2479.5	2288.3	2104.6	1933.7	1863.6	1828.5
15°	3119.8	3095.4	2996.6	2822.5	2610.1	2283.0	1867.8	1546.1	1309.3	1220.1	1181.9
17.5°	3265.3	3233.4	3083.7	2847.9	2479.5	1876.3	1310.3	989.7	831.4	789.0	774.1
20°	3411.8	3365.1	3159.1	2828.8	2184.3	1352.8	864.4	723.1	677.5	664.7	660.5
22.5°	3550.9	3478.7	3227.0	2754.5	1729.8	907.9	683.8	639.2	624.4	616.9	614.8
25°	3672.0	3571.1	3286.5	2525.1	1224.3	686.0	615.9	601.0	581.9	568.1	569.2
27.5°	3785.6	3663.5	3322.6	2147.1	816.6	586.2	570.2	550.0	515.0	494.8	494.8
30°	3922.6	3786.6	3349.1	1652.3	601.0	518.2	505.5	474.7	426.9	400.3	400.3
32.5°	4128.6	3973.5	3332.2	1159.6	498.0	455.5	425.8	383.3	331.3	305.8	304.8
35°	4443.9	4262.4	3211.1	760.3	439.6	396.1	348.3	296.3	250.6	229.4	228.3
37.5°	4868.7	4648.9	2939.3	543.7	394.0	340.9	283.5	226.2	192.2	178.4	177.3
40°	5419.8	5098.0	2550.6	440.7	351.5	287.8	218.7	175.2	151.8	141.2	142.3
42.5°	6081.3	5579.1	2084.5	380.2	310.1	236.8	171.0	138.0	123.2	115.7	113.6
45°	6816.2	6053.7	1596.0	338.7	268.7	191.1	133.8	109.4	97.7	93.4	93.4
47.5°	7624.2	6515.6	1168.1	302.6	224.1	147.6	107.2	89.2	79.6	76.5	75.4
50°	8358.0	6836.3	842.1	264.4	183.7	116.8	87.1	74.3	68.0	63.7	63.7
52.5°	8969.6	6937.2	620.1	223.0	148.7	93.4	72.2	63.7	57.3	54.2	54.2
55°	9508.0	6895.8	460.9	183.7	120.0	76.5	61.6	54.2	48.8	45.7	45.7
57.5°	10024.1	6762.0	344.0	149.7	96.6	61.6	52.0	45.7	40.4	38.2	38.2
60°	10445.6	6539.0	255.9	121.1	77.5	49.9	43.5	37.2	32.9	29.7	29.7
62.5°	10787.6	6292.7	188.0	99.8	61.6	39.3	34.0	30.8	24.4	21.2	21.2
65°	10789.7	5883.8	141.2	82.8	47.8	30.8	25.5	24.4	15.9	12.7	11.7
67.5°	10009.2	5072.6	108.3	71.1	37.2	23.4	19.1	20.2	8.5	5.3	4.2
68°	*9725.7*	*4866.6*	*101.9*	*70.1*	*35.0*	*22.3*	*18.1*	*20.2*	*7.4*	*4.2*	*3.2*
70°	8199.8	3871.6	81.8	68.0	30.8	17.0	14.9	20.2	6.4	3.2	2.1
72.5°	5244.6	2246.9	60.5	54.2	23.4	12.7	9.6	18.1	6.4	2.1	1.1
75°	2232.1	696.6	41.4	38.2	13.8	9.6	6.4	11.7	4.2	1.1	0.0
77.5°	470.4	157.2	24.4	23.4	9.6	6.4	4.2	3.2	1.1	0.0	0.0
80°	121.1	45.7	12.7	11.7	5.3	3.2	2.1	0.0	0.0	0.0	0.0
82.5°	38.2	18.1	7.4	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.2	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

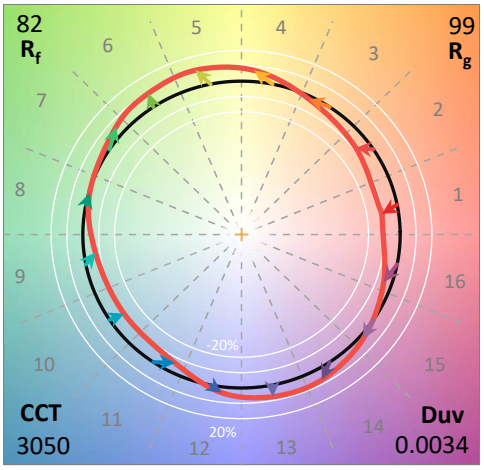
Test Information

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

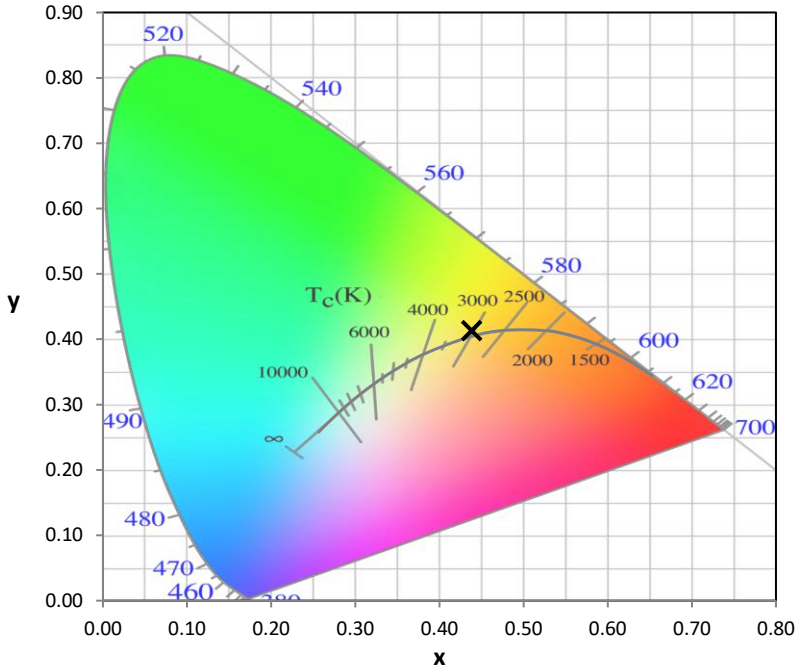
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

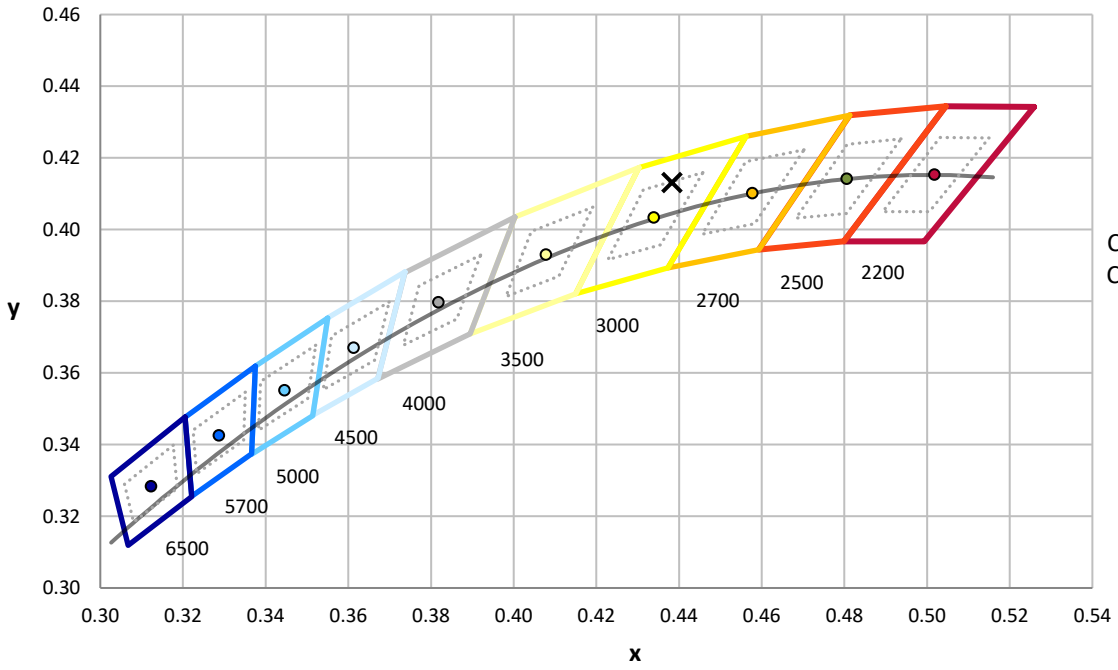
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

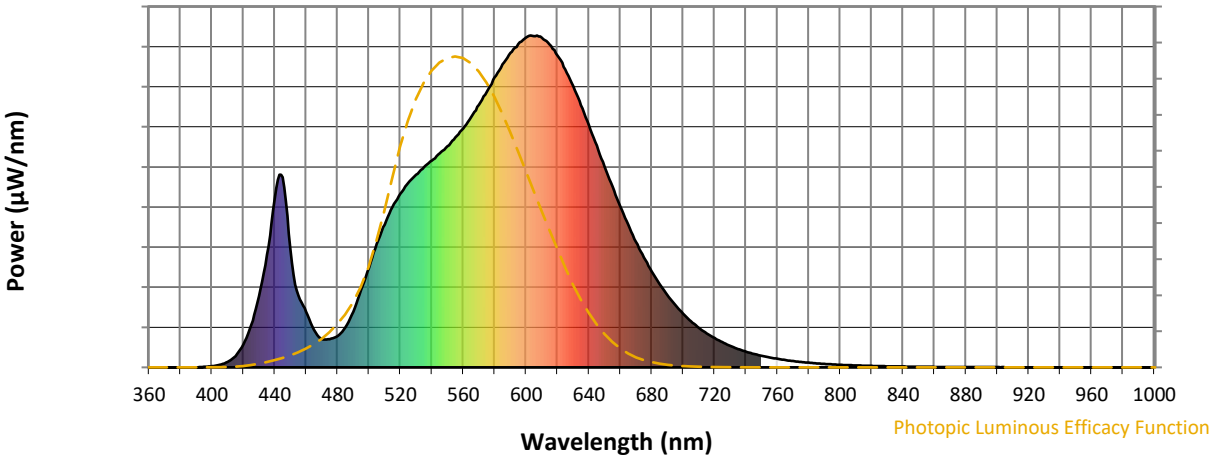


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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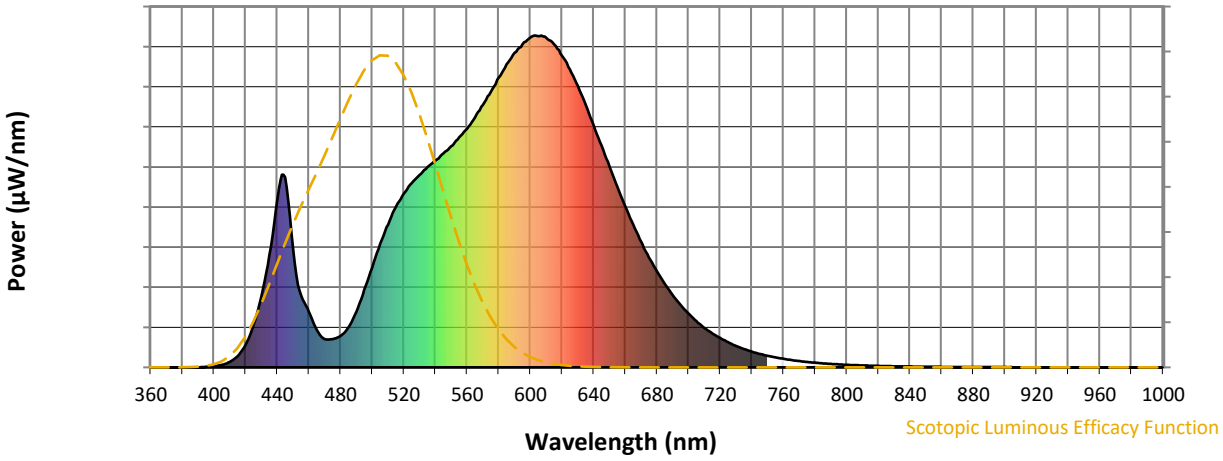
Scotopic Flux vs. Wavelength



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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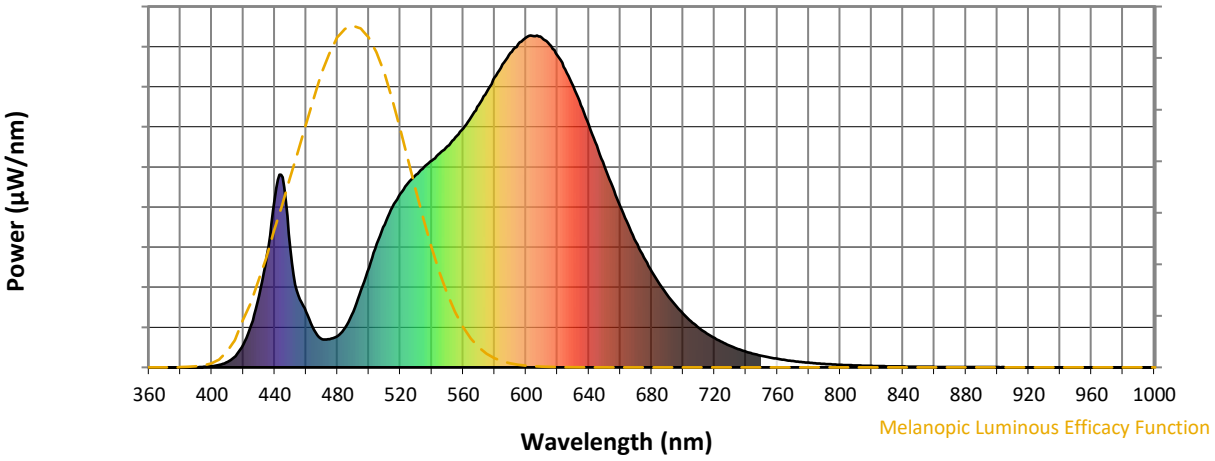
Melanopic Flux vs. Wavelength



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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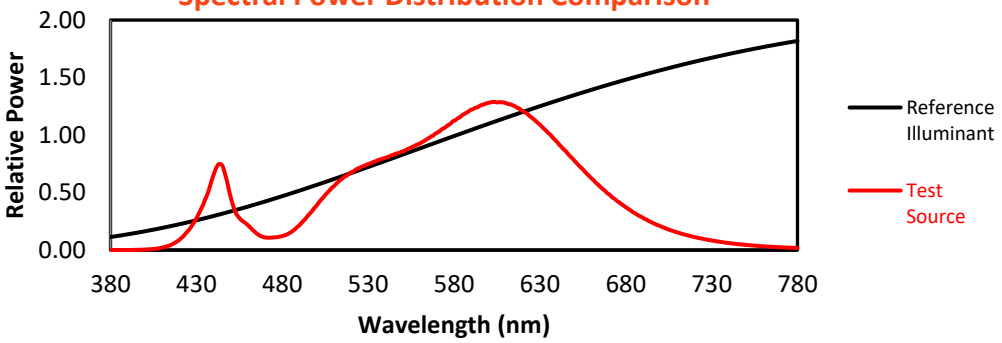
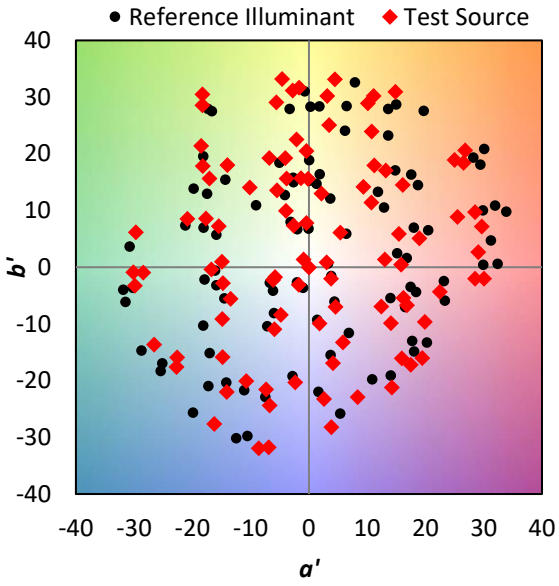
Summary

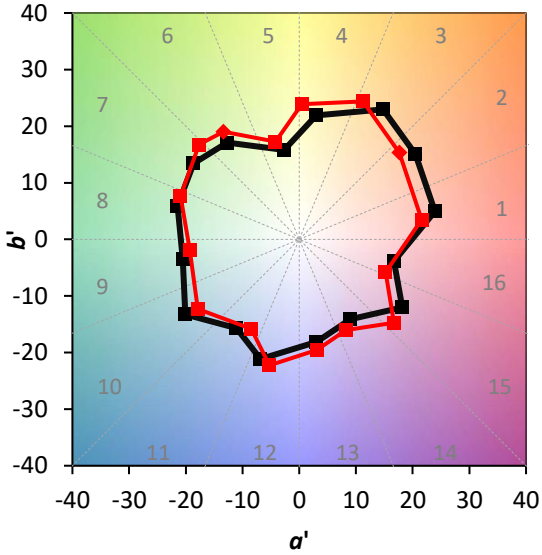
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

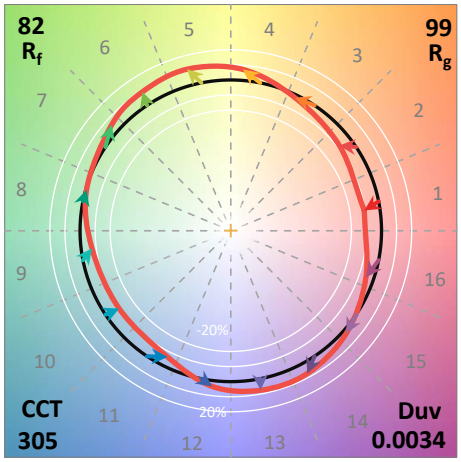
Spectral Power Distribution Comparison

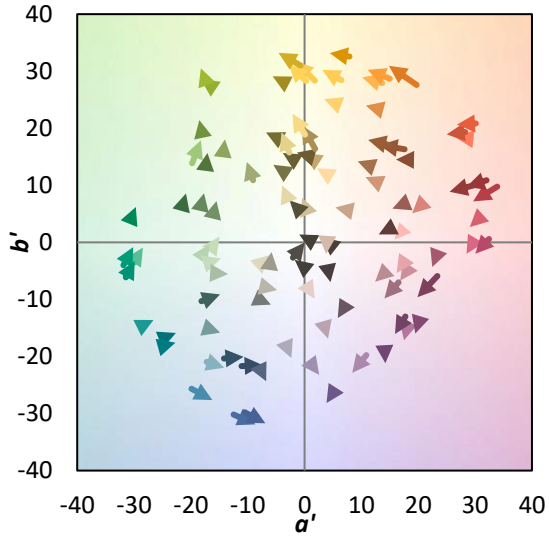


Color Vector Graphics









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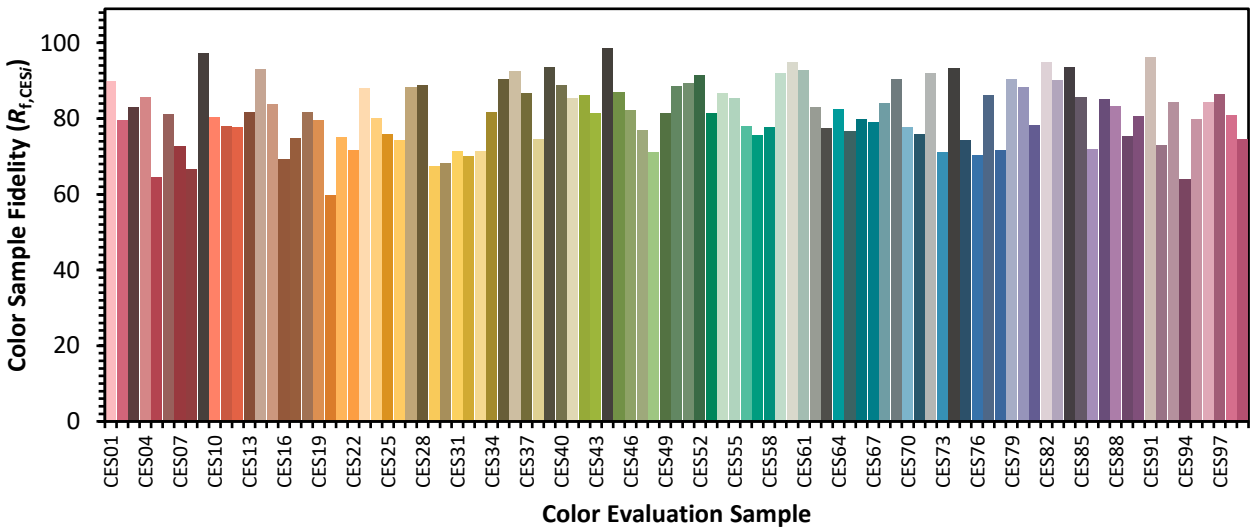
Individual Sample Fidelity Index ($R_{f,i}$)

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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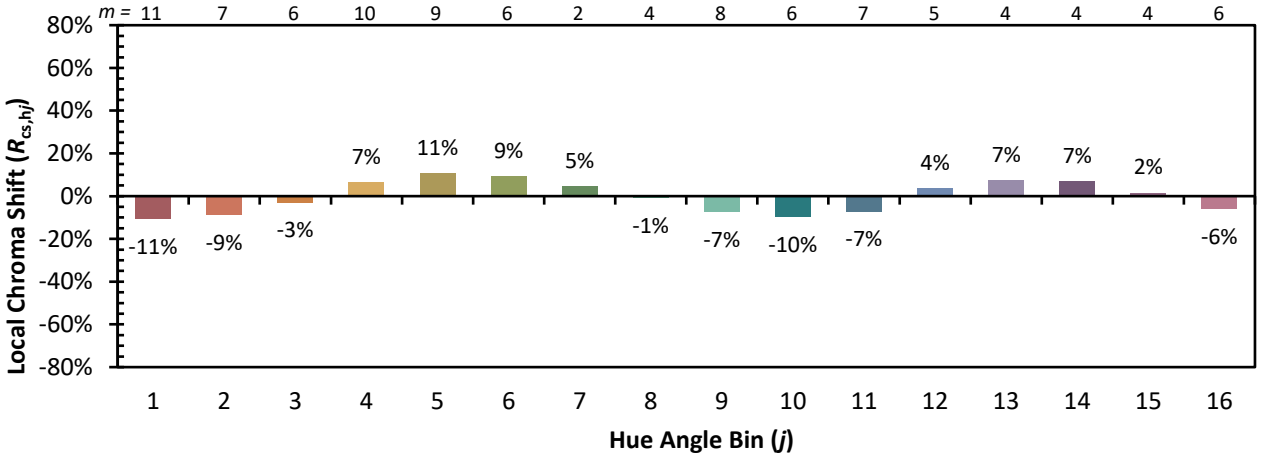
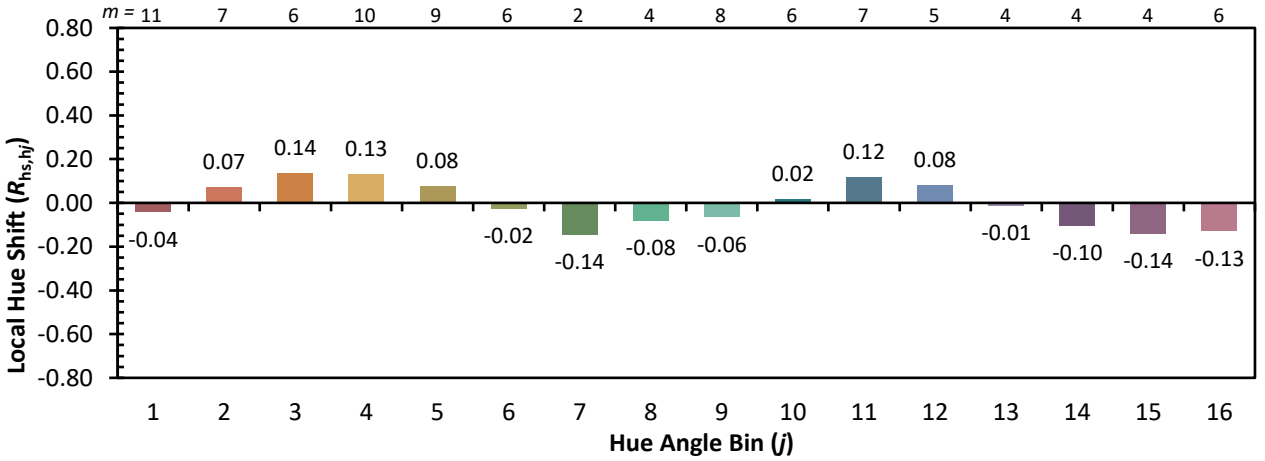
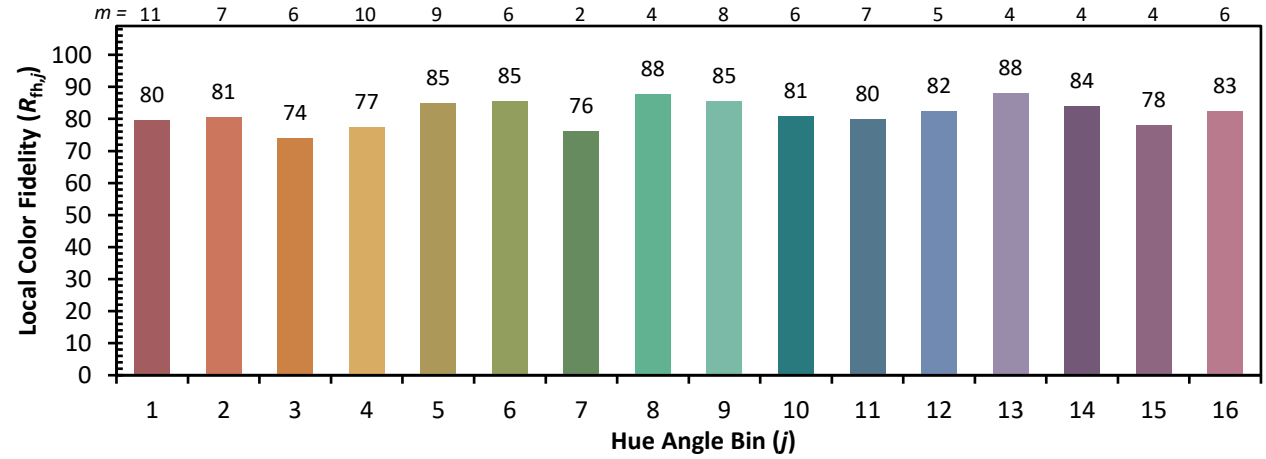
Color Rendition by Hue-Angle Bin







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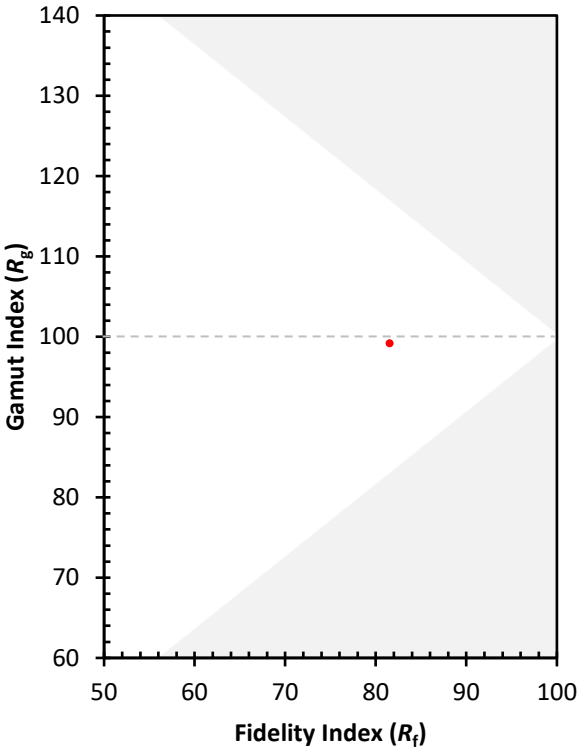
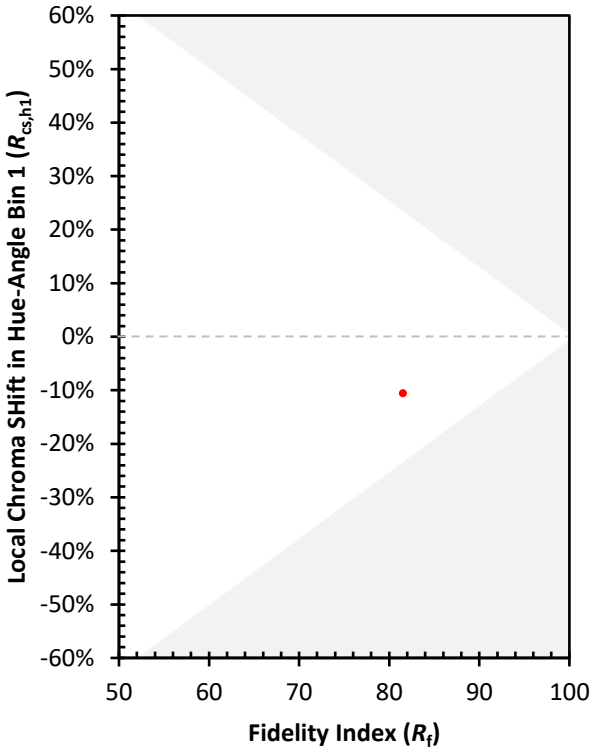
Measure Comparisons





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