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: P323683

Luminaire Tested: **GLEON-SA9B-830-U-SL3-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:	P323683
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA9B-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34682 lumens
Efficiency:	N/A
Efficacy:	92.7 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	374
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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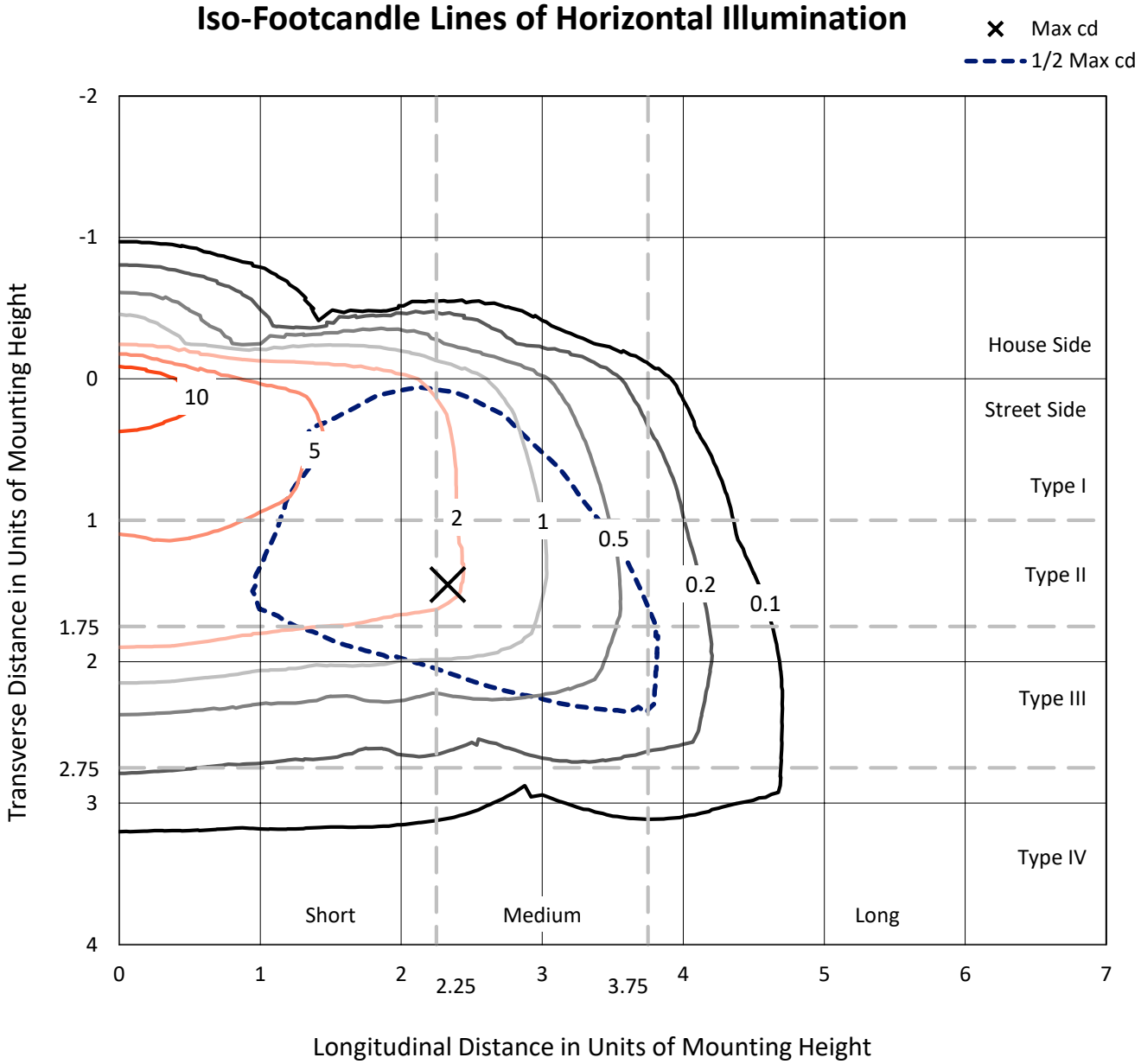
Scaled Data Report

REPORT NUMBER: P323683
CATALOG NUMBER: GLEON-SA9B-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type III - Medium - N/A

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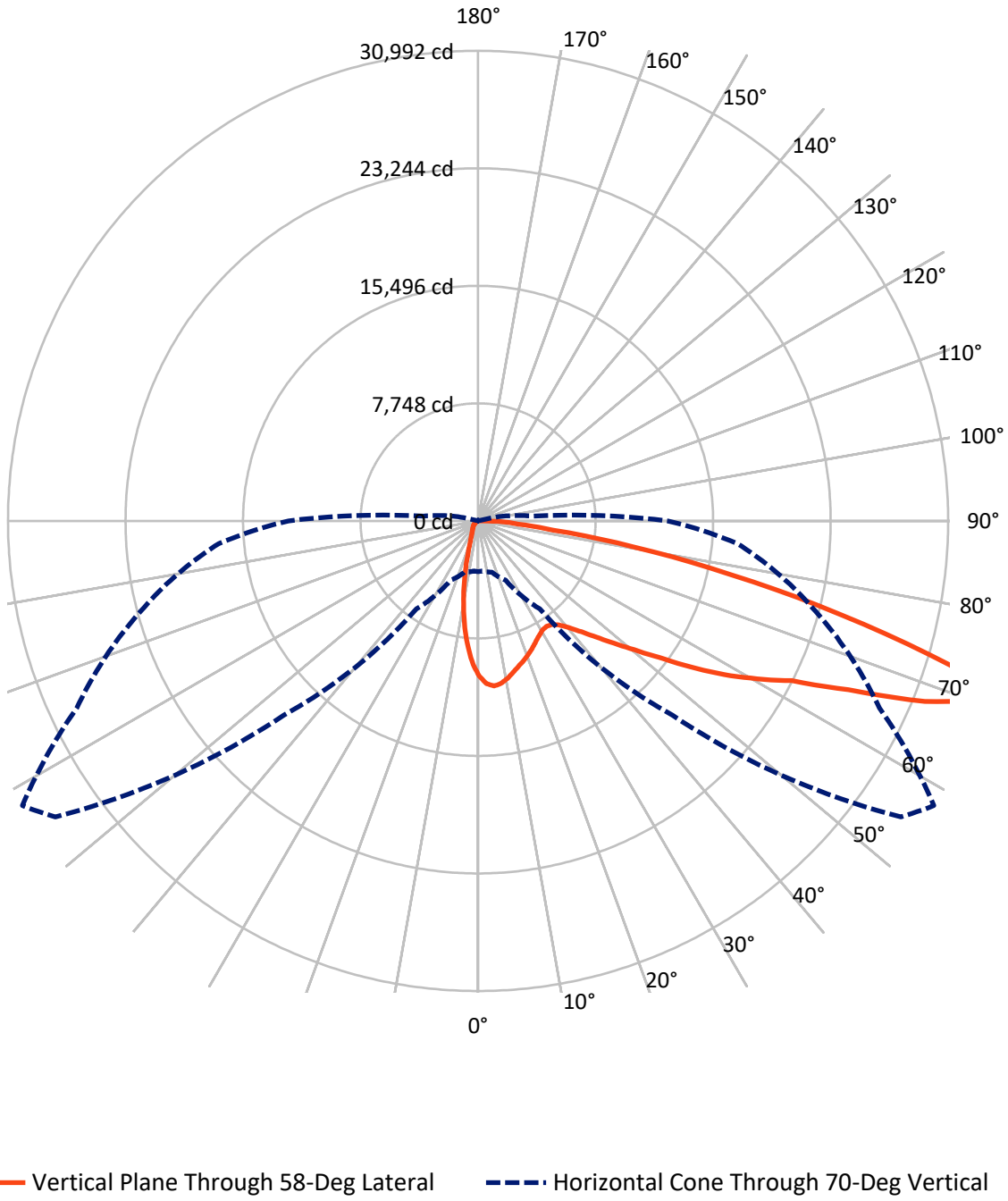
Luminous Intensity Polar Plot



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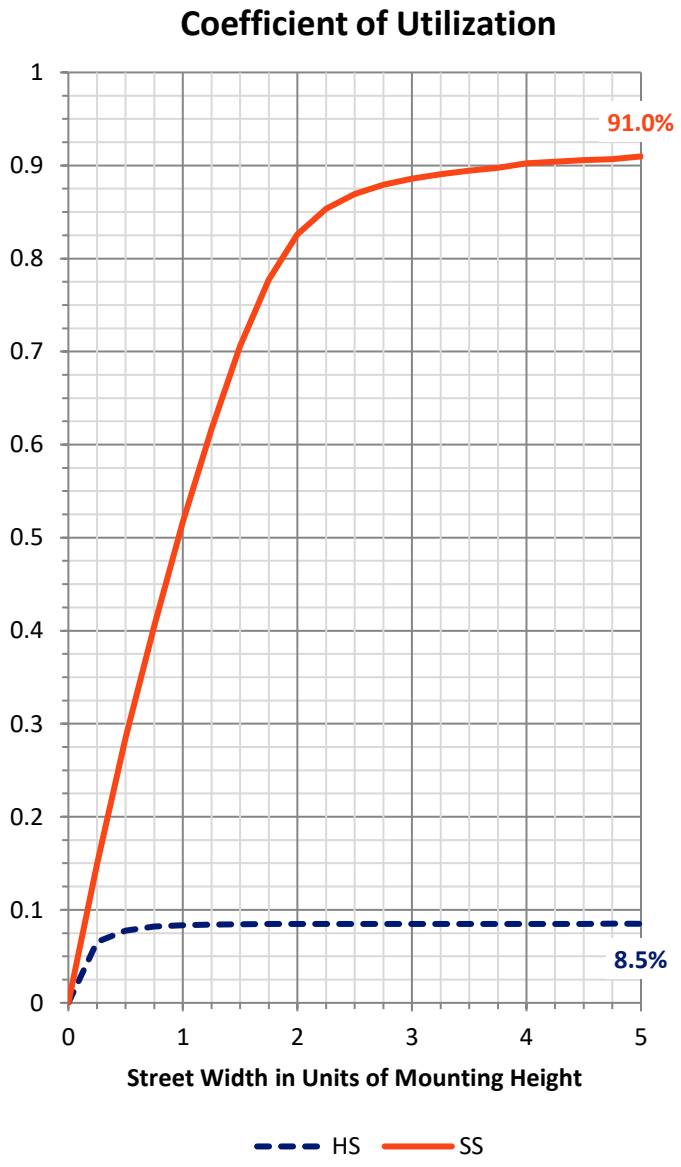
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2968.0	0.0	2968.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	31714.0	0.0	31714.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	34682.0	0.0	34682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.8	2.4
10°-20°	1758.3	5.1
20°-30°	2311.5	6.7
30°-40°	3061.4	8.8
40°-50°	4575.8	13.2
50°-60°	7330.3	21.1
60°-70°	9239.7	26.6
70°-80°	4983.9	14.4
80°-90°	583.4	1.7
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°	34682.0	100.0
0°-180°	34682.0	100.0



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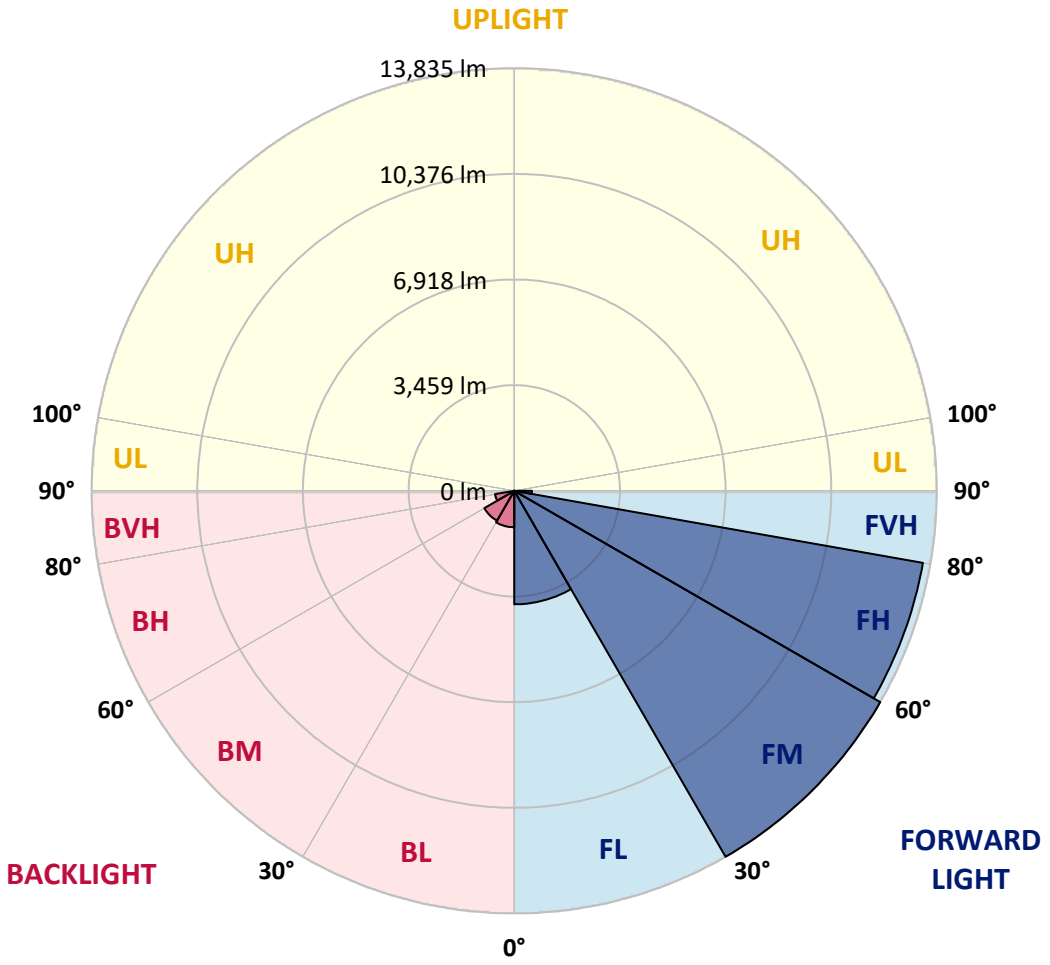
Scaled Data Report

REPORT NUMBER: P323683
CATALOG NUMBER: GLEON-SA9B-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3715.2	10.7			
FM	(30°-60°)	13835.2	39.9			
FH	(60°-80°)	13585.3	39.2			G5
FVH	(80°-90°)	578.3	1.7			G4/750
BL	(0°-30°)	1192.4	3.4	B3/2500		
BM	(30°-60°)	1132.3	3.3	B2/2500		
BH	(60°-80°)	638.3	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323683
CATALOG NUMBER: GLEON-SA9B-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	*10244.9*	10244.9	10244.9	10244.9
2.5°	11094.3	11066.9	11056.8	11039.5	10973.2	10908.3	10779.9	*10743.9*	10663.1	10471.3	10268.0
5°	11103.0	11101.5	11131.8	11124.6	11101.5	11071.2	10978.9	*10931.4*	10794.4	10520.3	10148.3
7.5°	10567.9	10595.3	10663.1	10717.9	10781.4	10863.6	10875.1	*10829.0*	10716.5	10420.8	9927.6
10°	9849.8	9893.0	9988.2	10096.4	10262.2	10426.6	10573.7	*10567.9*	10529.0	10237.7	9662.3
12.5°	9130.1	9180.6	9290.2	9450.3	9685.4	9953.6	10216.1	*10252.1*	10317.0	10073.3	9417.1
15°	8499.9	8543.2	8651.3	8847.5	9138.8	9499.3	9884.4	*9950.7*	10118.0	9944.9	9212.3
17.5°	7964.9	7992.3	8071.6	8289.4	8626.8	9063.8	9564.2	*9694.0*	9943.5	9844.0	9035.0
20°	7591.4	7595.7	7647.6	7800.5	8137.9	8626.8	9232.5	*9418.6*	9758.9	9757.5	8851.8
22.5°	7406.8	7392.4	7402.5	7490.4	7738.5	8210.1	8900.8	*9121.5*	9593.1	9683.9	8665.8
25°	7372.2	7360.6	7331.8	7343.3	7493.3	7845.2	8566.3	*8821.5*	9447.4	9639.2	8504.2
27.5°	7480.3	7491.9	7442.8	7390.9	7402.5	7608.7	8269.2	*8564.8*	9329.1	9639.2	8390.3
30°	7698.1	7703.9	7667.8	7600.0	7509.2	7542.3	8063.0	*8358.6*	9270.0	9705.5	8318.2
32.5°	7938.9	7970.7	7966.3	7911.5	7781.7	7647.6	8013.9	*8283.6*	9265.7	9852.6	8311.0
35°	8237.5	8273.5	8334.1	8322.5	8187.0	7966.3	8181.2	*8393.2*	9350.8	10094.9	8388.9
37.5°	8554.7	8609.5	8739.3	8801.3	8713.4	8463.9	8556.2	*8707.6*	9578.6	10487.2	8586.4
40°	8861.9	8923.9	9160.4	9404.1	9337.8	9081.1	9124.4	*9245.5*	9983.9	11051.0	8961.4
42.5°	9163.3	9255.6	9603.2	10004.1	10083.4	9878.6	9901.7	*9998.3*	10585.2	11826.9	9574.3
45°	9523.8	9627.7	10142.5	10637.2	10849.2	10759.7	10857.8	*10921.3*	11371.2	12852.3	10400.6
47.5°	10053.1	10172.8	10804.4	11368.3	11740.4	11798.1	11995.6	*12037.5*	12364.8	14046.4	11477.9
50°	11085.7	11118.8	11689.9	12201.9	12738.3	13084.5	13309.4	*13341.2*	13567.6	15351.5	12823.4
52.5°	12385.0	12406.7	12729.7	13072.9	13682.9	14389.6	14916.0	*14960.7*	15008.3	16623.4	14151.6
55°	13675.7	13672.8	13886.3	14088.2	14786.2	15813.0	16955.1	*16982.5*	16640.7	17830.5	15166.9
57.5°	14481.9	14559.8	14884.2	15143.8	16118.7	17435.4	19020.3	*19121.2*	18355.4	18724.6	16170.6
60°	14225.2	14262.7	14982.3	15942.8	17778.6	19741.3	21109.9	*21135.9*	19644.7	19617.3	17439.7
62.5°	12119.7	12139.9	13270.5	15250.5	18619.4	22732.3	23630.8	*23208.2*	21127.2	20856.1	18958.3
65°	8306.7	8437.9	9382.5	11829.8	17074.8	24608.5	27533.2	*26833.7*	23387.0	22641.5	20331.2
67.5°	4891.7	4864.3	5331.6	7134.2	12540.8	23362.5	32469.6	*31774.5*	26468.9	23837.0	19928.8
70°	*3341.4*	*3322.7*	*3501.5*	*4319.2*	*7079.4*	*18123.3*	*34022.8*	*35425.9*	*29190.2*	*23032.3*	*17151.3*
72.5°	2385.3	2395.4	2659.3	3355.8	4444.6	10559.3	29258.0	*32579.2*	28337.9	20078.8	13036.9
75°	1619.5	1646.9	2024.8	2753.0	3896.6	5371.9	20762.4	*24765.7*	23075.5	14592.9	7493.3
77.5°	871.0	901.3	1347.0	2218.0	3523.1	3732.2	13355.6	*17044.5*	14494.9	6560.3	2171.8
80°	363.4	380.7	630.2	1612.3	3044.3	3278.0	7858.2	*10335.8*	6176.6	1293.6	484.6
82.5°	157.2	165.8	262.5	961.9	2275.7	2767.4	4160.5	*4972.5*	1871.9	284.1	243.7
85°	30.3	31.7	108.2	509.1	1452.2	1561.8	2696.8	*2643.4*	840.8	122.6	177.4
87.5°	0.0	0.0	26.0	160.1	426.9	850.9	1645.5	*1625.3*	285.5	59.1	66.3
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: P323683
CATALOG NUMBER: GLEON-SA9B-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9	10244.9
2.5°	10164.1	10064.6	9855.5	9597.4	9399.8	9182.0	9009.0	8789.8	8694.6	8698.9	8647.0
5°	9936.3	9731.5	9268.6	8684.5	8234.6	7770.2	7370.7	6972.7	6737.6	6661.2	6589.1
7.5°	9610.4	9285.9	8547.5	7647.6	6886.2	6142.0	5494.5	4924.9	4564.3	4388.4	4323.5
10°	9242.6	8786.9	7718.3	6532.9	5445.5	4438.9	3599.6	2869.8	2578.5	2381.0	2330.5
12.5°	8919.6	8302.3	6907.8	5389.2	4098.5	2884.3	2083.9	1629.6	1432.0	1354.2	1341.2
15°	8615.3	7849.5	6127.6	4353.8	2838.1	1775.3	1325.3	1171.0	1124.9	1111.9	1111.9
17.5°	8328.3	7418.3	5364.7	3334.2	1877.7	1244.6	1097.5	1062.9	1048.4	1047.0	1048.4
20°	8028.3	6987.1	4614.8	2443.0	1310.9	1054.2	1013.8	995.1	990.7	990.7	990.7
22.5°	7741.4	6555.9	3885.1	1745.0	1051.3	961.9	941.7	928.7	924.4	923.0	920.1
25°	7465.9	6146.4	3172.7	1233.0	923.0	881.1	863.8	846.5	833.6	826.3	822.0
27.5°	7239.5	5781.5	2509.3	989.3	833.6	797.5	775.9	749.9	718.2	703.8	698.0
30°	7059.2	5448.4	1933.9	835.0	749.9	713.9	680.7	636.0	589.8	565.3	563.9
32.5°	6917.9	5121.0	1468.1	738.4	674.9	630.2	582.6	526.4	473.0	445.6	444.2
35°	6848.7	4832.6	1122.0	667.7	608.6	552.3	493.2	431.2	379.3	353.3	350.4
37.5°	6894.8	4588.9	875.4	608.6	552.3	487.4	418.2	353.3	307.2	284.1	282.7
40°	7063.6	4433.1	711.0	558.1	504.7	425.4	350.4	289.9	250.9	232.2	230.7
42.5°	7422.6	4375.4	607.1	516.3	458.6	367.7	291.3	239.4	203.3	190.4	187.5
45°	8022.6	4460.5	536.5	475.9	411.0	312.9	240.8	196.1	164.4	154.3	152.9
47.5°	8821.5	4684.0	486.0	437.0	367.7	263.9	200.5	158.6	134.1	124.0	122.6
50°	9851.2	5038.8	444.2	398.0	327.4	223.5	165.8	125.5	103.8	96.6	96.6
52.5°	10971.7	5461.4	406.7	362.0	287.0	186.0	134.1	96.6	82.2	73.5	73.5
55°	11897.6	5830.5	366.3	334.6	238.0	154.3	102.4	73.5	60.6	56.2	56.2
57.5°	12822.0	6224.2	320.2	287.0	190.4	125.5	77.9	54.8	44.7	41.8	41.8
60°	14020.4	6705.9	275.4	233.6	150.0	95.2	57.7	38.9	33.2	31.7	31.7
62.5°	15338.5	6988.6	235.1	187.5	116.8	70.7	41.8	26.0	24.5	24.5	23.1
65°	16144.7	6589.1	197.6	150.0	90.9	53.4	27.4	18.7	21.6	20.2	17.3
67.5°	15116.4	5158.5	161.5	116.8	70.7	40.4	17.3	13.0	23.1	18.7	14.4
70°	*12516.3*	*3611.1*	*125.5*	*82.2*	*56.2*	*34.6*	*11.5*	*8.7*	*24.5*	*18.7*	*11.5*
72.5°	9366.6	2417.0	99.5	54.8	41.8	30.3	10.1	4.3	21.6	15.9	10.1
75°	5118.1	973.4	79.3	34.6	26.0	21.6	7.2	2.9	14.4	11.5	7.2
77.5°	1347.0	256.7	57.7	23.1	14.4	8.7	4.3	1.4	7.2	5.8	2.9
80°	343.2	99.5	37.5	15.9	10.1	4.3	0.0	0.0	1.4	0.0	0.0
82.5°	183.2	41.8	23.1	11.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	138.4	27.4	13.0	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	53.4	8.7	4.3	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

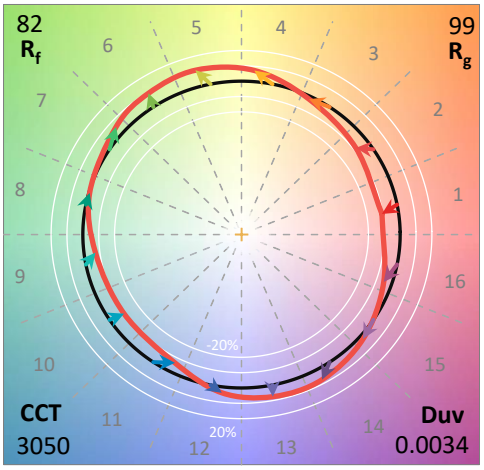
Test Information

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

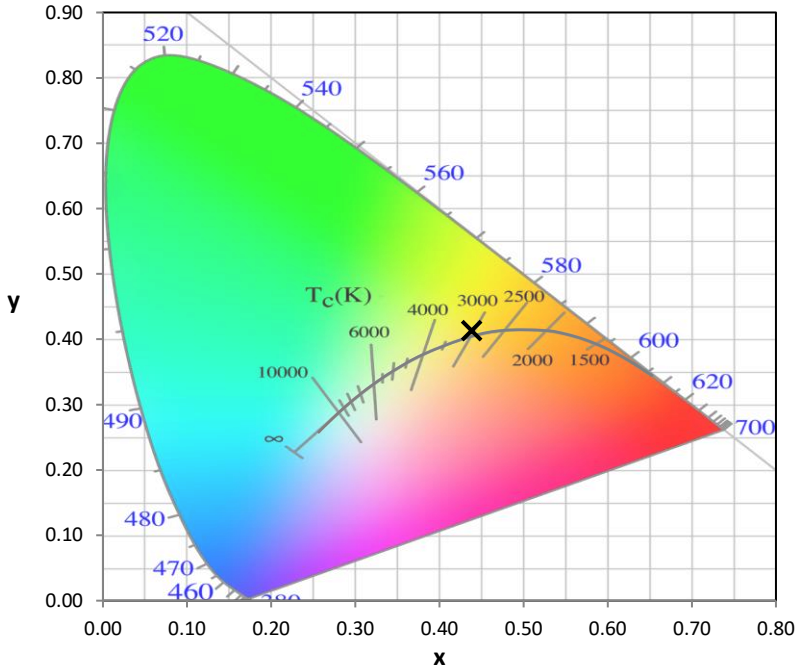
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

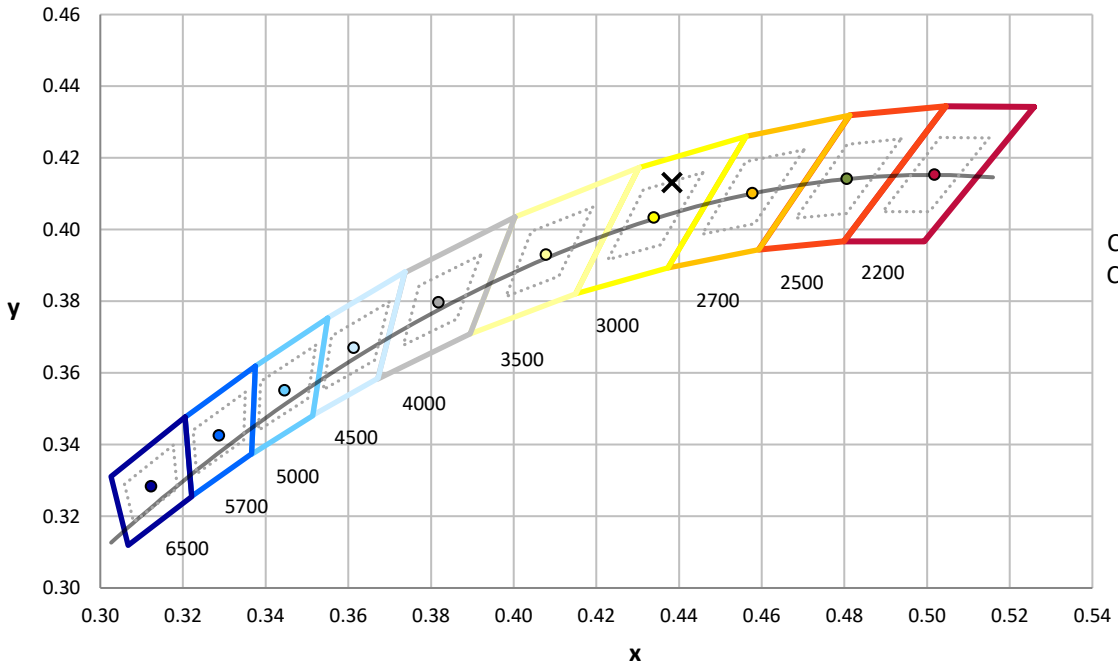
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

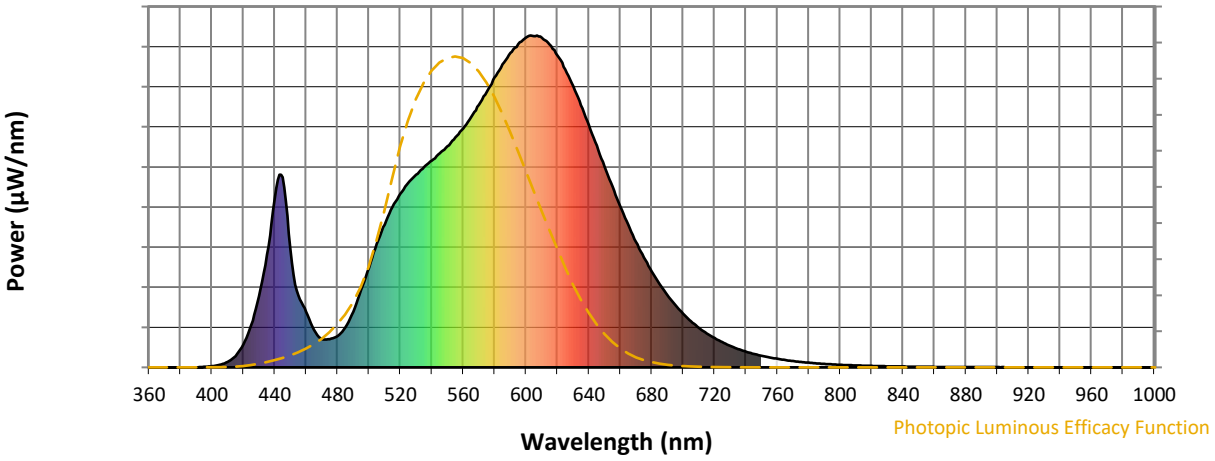


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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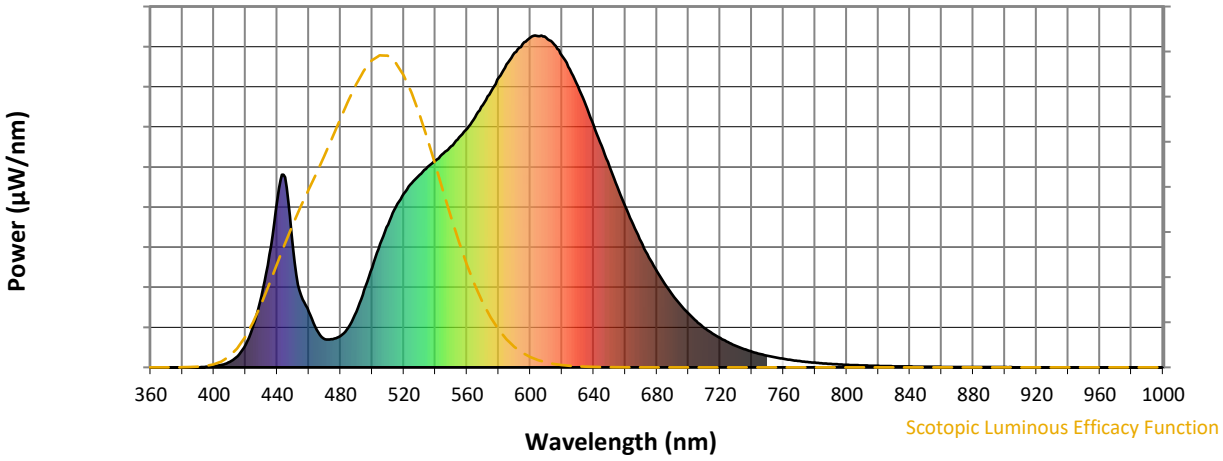
Scotopic Flux vs. Wavelength



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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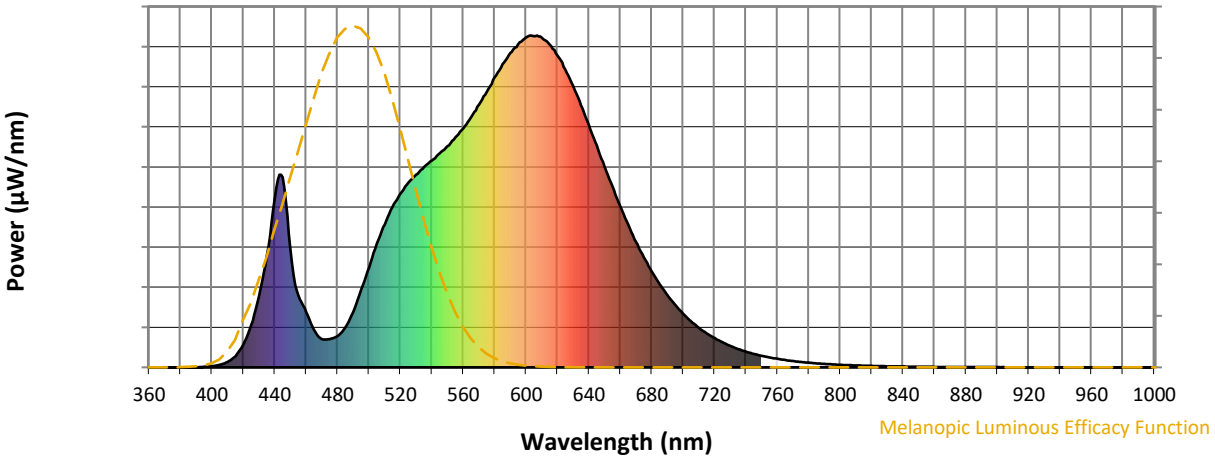
Melanopic Flux vs. Wavelength



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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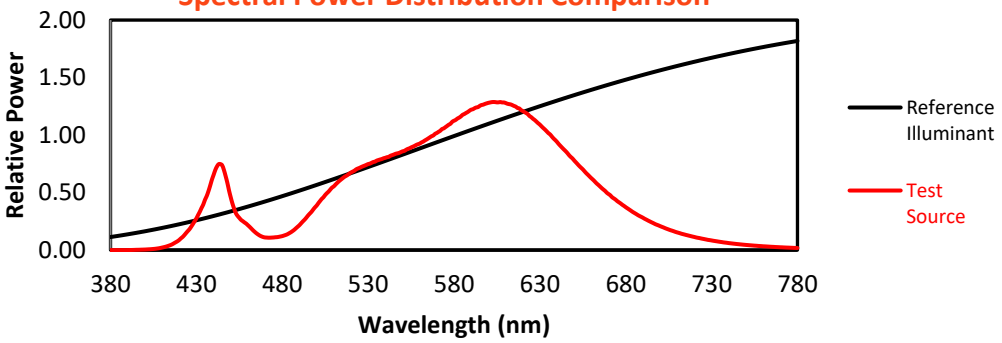
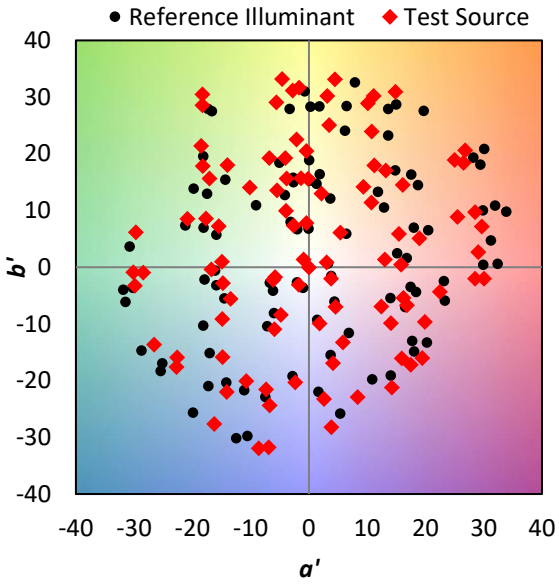
Summary

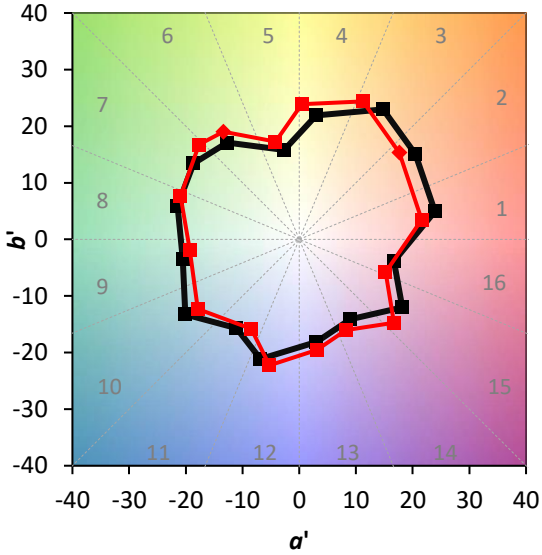
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

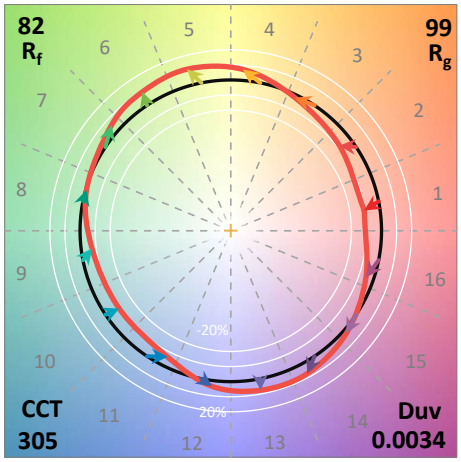
Spectral Power Distribution Comparison

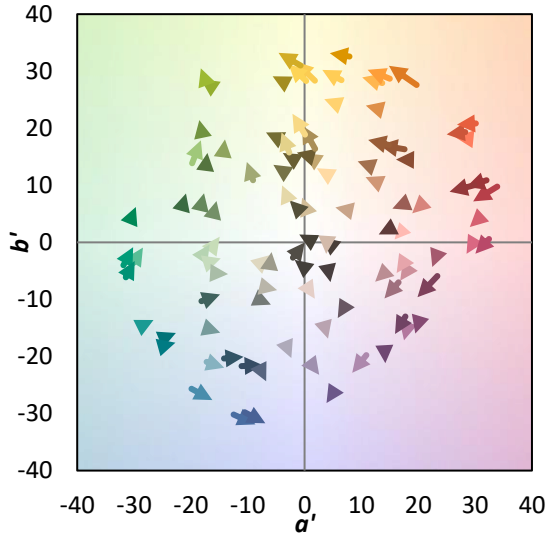


Color Vector Graphics









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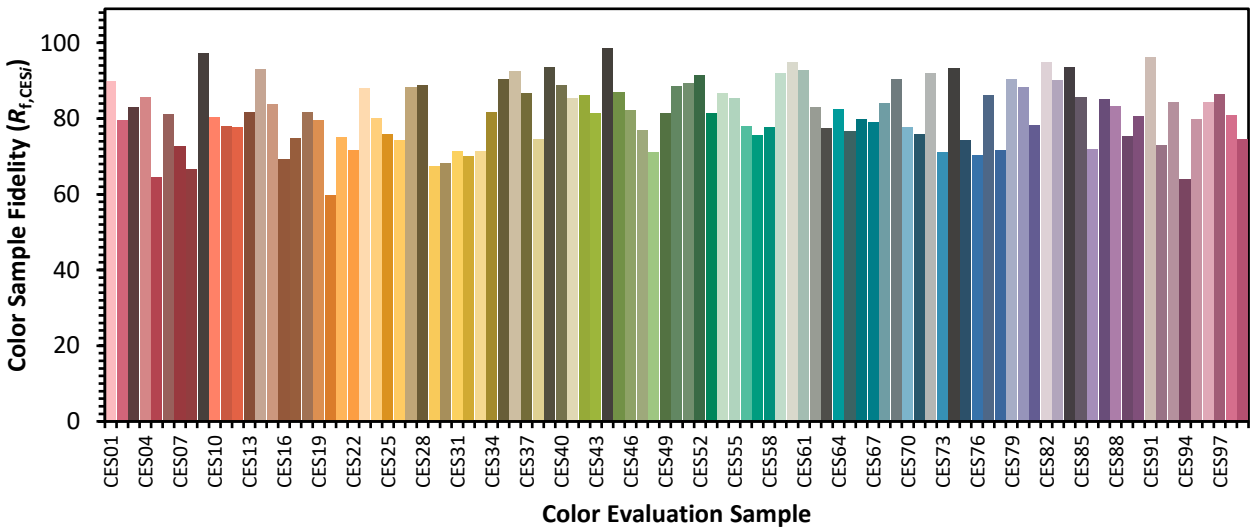
Individual Sample Fidelity Index ($R_{f,i}$)

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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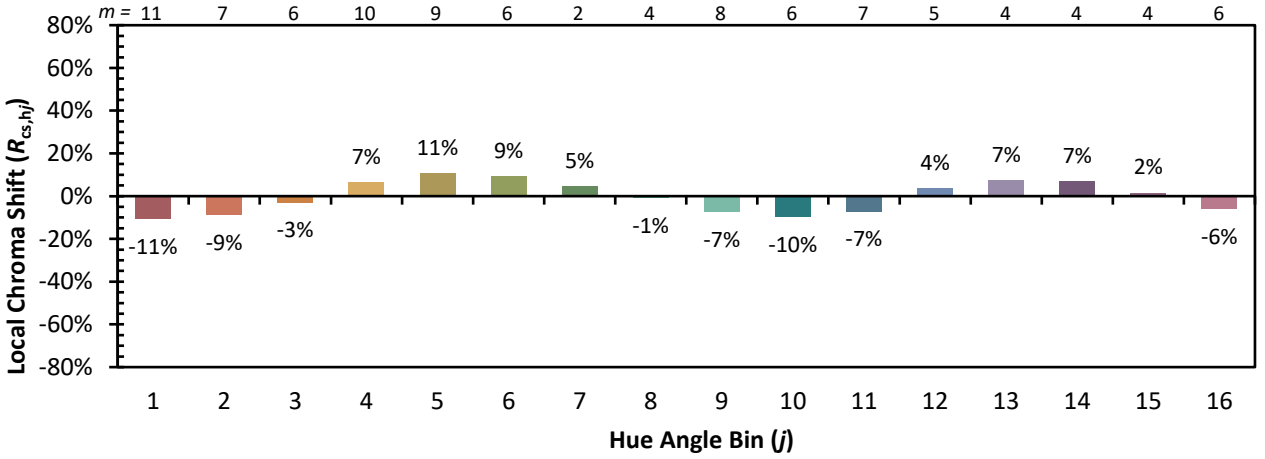
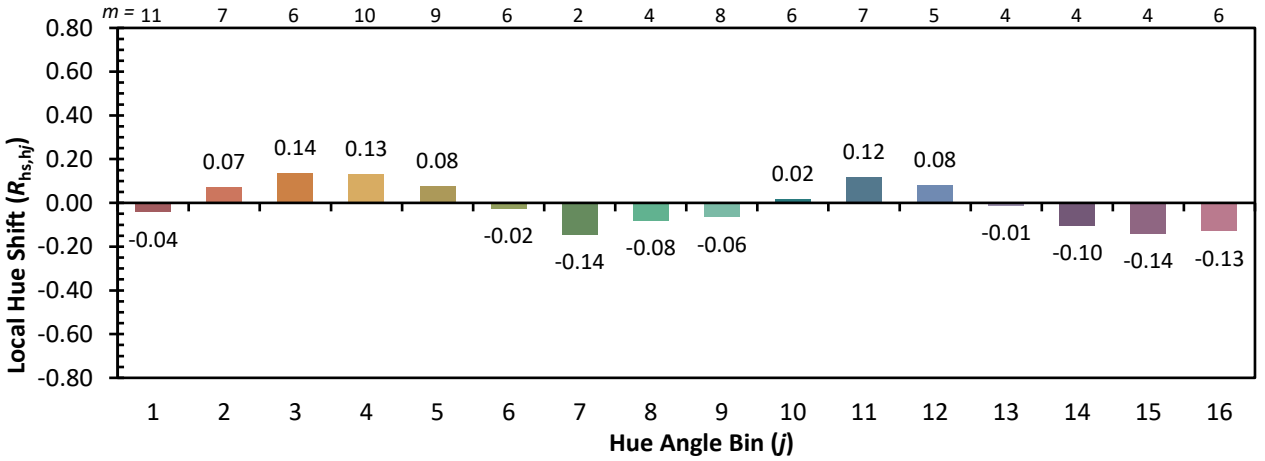
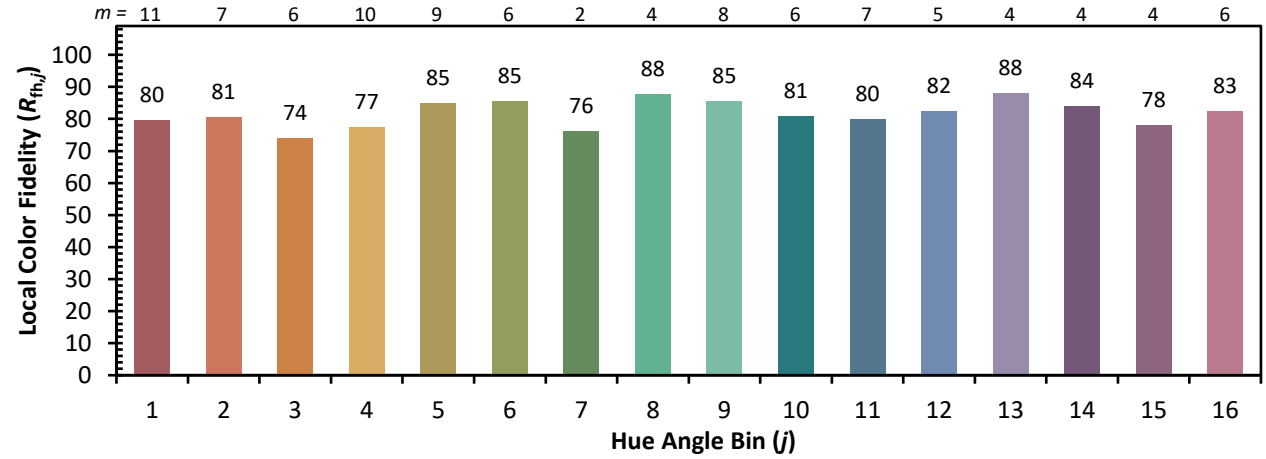
Color Rendition by Hue-Angle Bin







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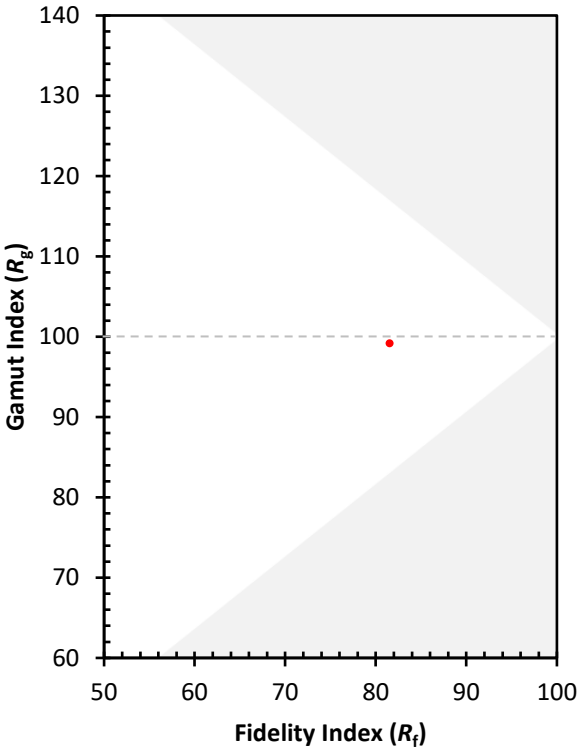
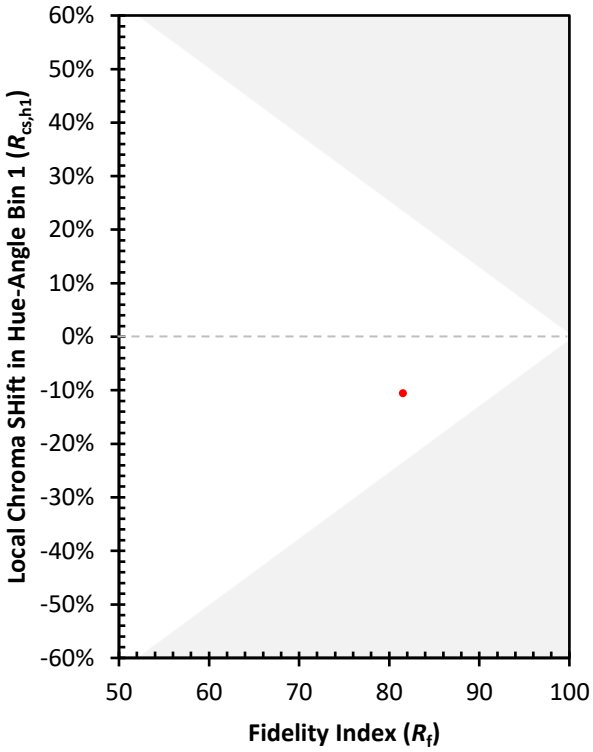
Measure Comparisons





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