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: P322403

Luminaire Tested: **GLEON-SA9B-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:	P322403
	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-SA9B-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 800mA 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:	29585 lumens
Efficiency:	N/A
Efficacy:	79.1 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

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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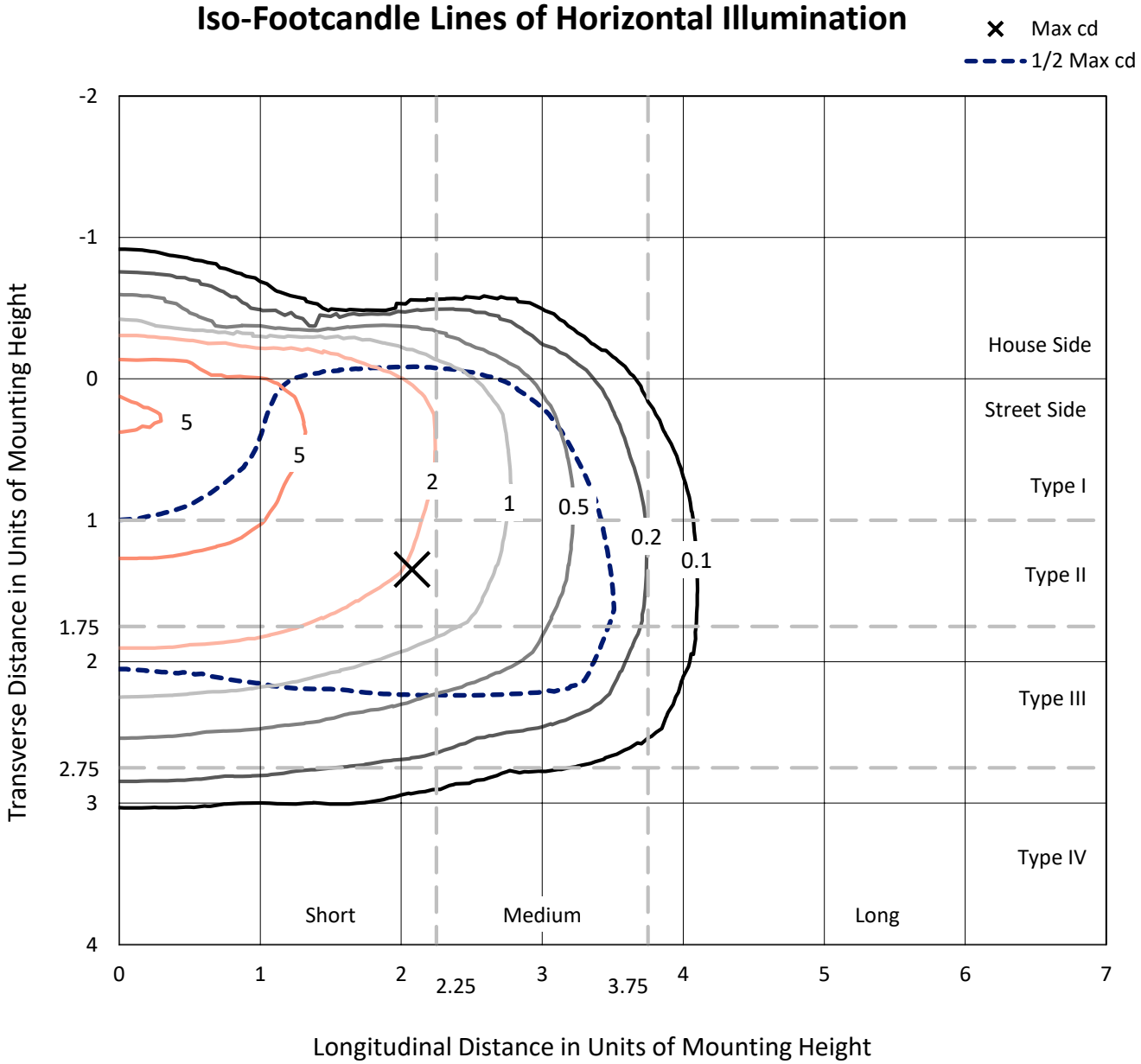
Scaled Data Report

REPORT NUMBER: P322403
CATALOG NUMBER: GLEON-SA9B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Short - N/A

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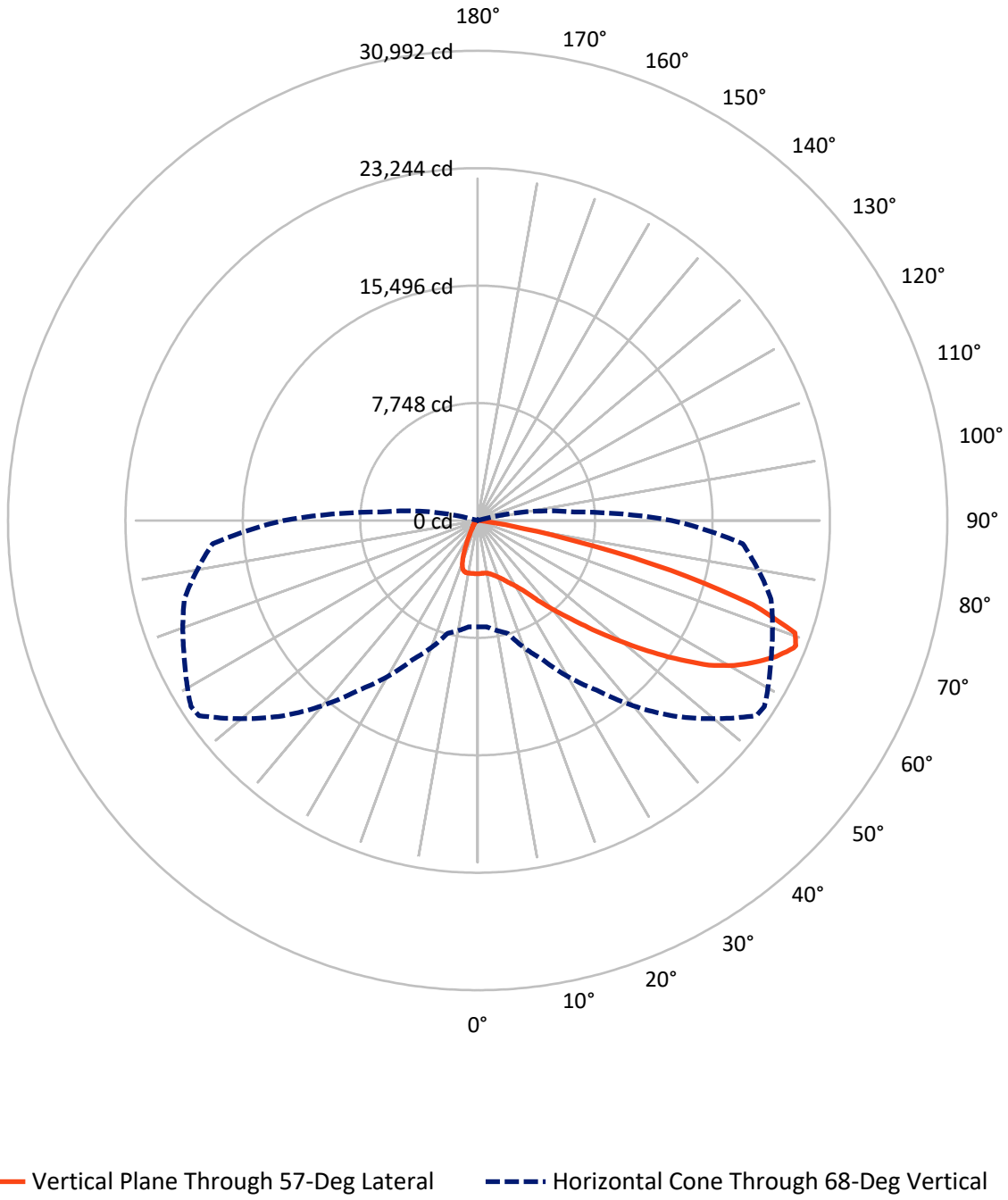
Luminous Intensity Polar Plot



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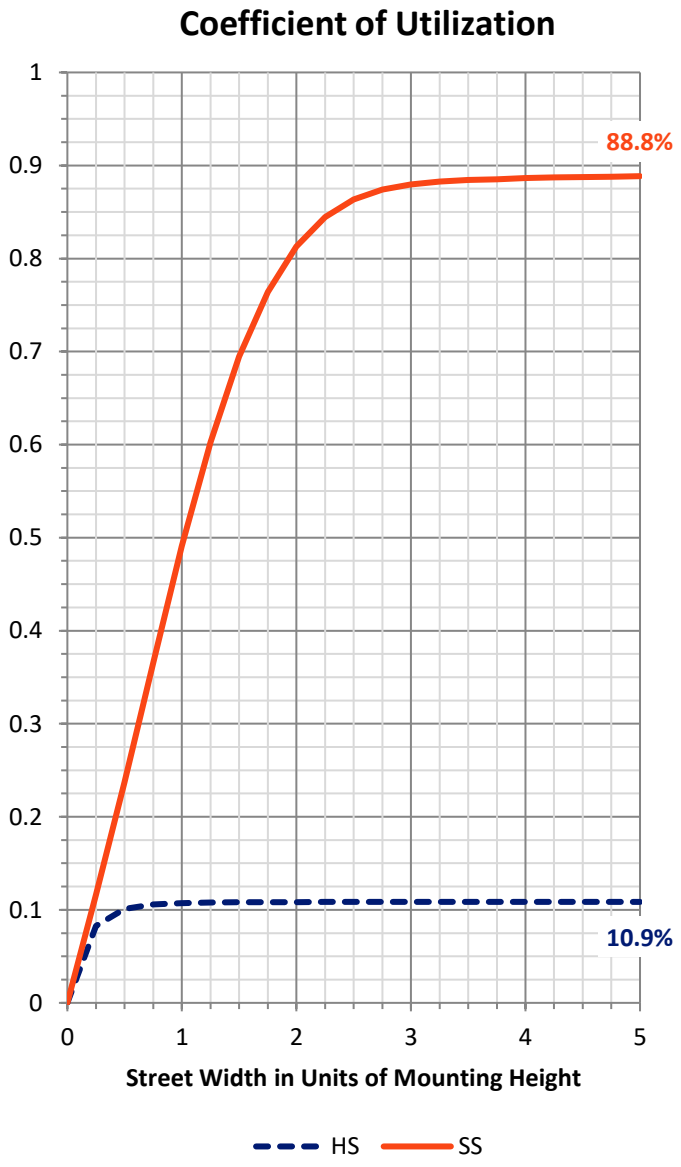
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3244.2	0.0	3244.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	26340.8	0.0	26340.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	29585.0	0.0	29585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.1
10°-20°	911.7	3.1
20°-30°	1572.7	5.3
30°-40°	2714.4	9.2
40°-50°	4643.1	15.7
50°-60°	7428.6	25.1
60°-70°	8582.9	29.0
70°-80°	3279.6	11.1
80°-90°	122.9	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°	29585.0	100.0
0°-180°	29585.0	100.0



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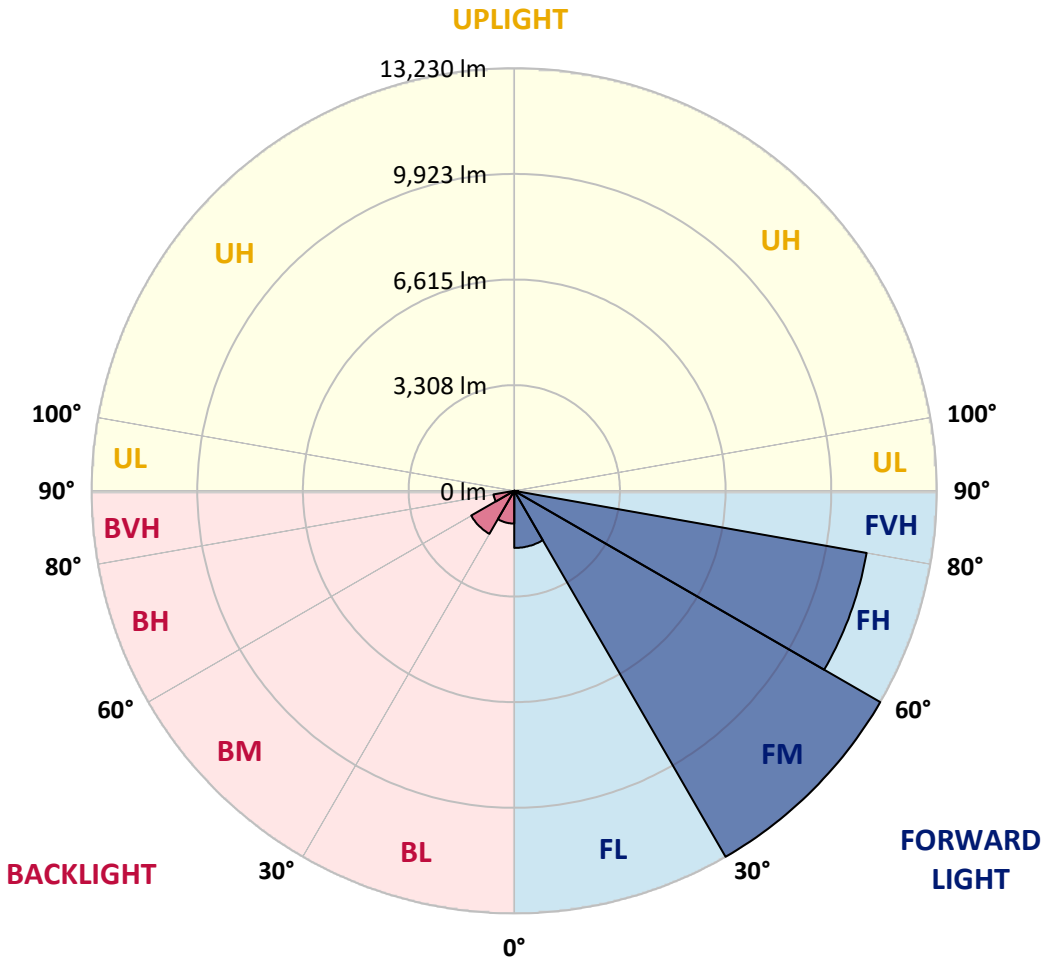
CATALOG NUMBER: GLEON-SA9B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1788.1	6.0			
FM	(30°-60°)	13230.2	44.7			
FH	(60°-80°)	11201.8	37.9			G4/12000
FVH	(80°-90°)	120.7	0.4			G2/225
BL	(0°-30°)	1025.3	3.5	B3/2500		
BM	(30°-60°)	1556.0	5.3	B2/2500		
BH	(60°-80°)	660.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.2	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-G4
Type III Short



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REPORT NUMBER: P322403
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5
2.5°	3432.9	3448.3	3459.5	3466.5	3474.9	3493.1	3498.7	3507.1	3511.3	3511.3	3521.1
5°	3297.2	3314.0	3337.8	3357.4	3396.6	3446.9	3483.3	3497.3	3522.5	3544.9	3557.4
7.5°	3171.3	3190.9	3218.9	3265.1	3332.2	3413.4	3488.9	3508.5	3557.4	3605.0	3628.8
10°	3090.2	3105.6	3142.0	3207.7	3295.8	3409.2	3515.5	3539.3	3623.2	3702.9	3747.7
12.5°	3062.2	3076.2	3114.0	3188.1	3297.2	3430.1	3577.0	3612.0	3735.1	3851.2	3914.2
15°	3102.8	3105.6	3146.2	3216.1	3323.8	3481.9	3679.2	3721.1	3876.4	4027.5	4105.8
17.5°	3259.5	3246.9	3267.9	3298.6	3384.0	3550.5	3786.9	3849.8	4056.9	4234.5	4308.7
20°	3651.2	3651.2	3603.6	3519.7	3521.1	3656.8	3932.4	4003.7	4256.9	4462.5	4529.7
22.5°	4321.3	4308.7	4213.5	4007.9	3819.0	3840.0	4110.0	4202.3	4497.5	4717.1	4739.5
25°	5127.0	5111.6	4964.8	4675.2	4347.8	4136.6	4350.6	4456.9	4784.3	4978.7	4932.6
27.5°	5980.4	5967.8	5822.3	5462.8	4996.9	4609.4	4637.4	4738.1	5076.7	5268.3	5121.4
30°	6807.1	6811.3	6667.2	6297.9	5770.5	5212.4	5001.1	5059.9	5360.6	5555.1	5345.3
32.5°	7593.3	7598.9	7474.4	7061.7	6569.3	5913.2	5504.7	5489.3	5690.8	5882.4	5641.8
35°	8294.2	8308.2	8222.8	7902.5	7380.7	6693.8	6158.0	6121.7	6159.4	6376.3	6096.5
37.5°	8969.9	8978.2	8913.9	8643.9	8207.4	7551.4	6983.4	6931.6	6850.5	7017.0	6696.6
40°	9709.9	9688.9	9614.8	9369.9	8995.0	8498.4	7870.3	7780.8	7639.5	7787.8	7485.6
42.5°	10398.1	10374.4	10387.0	10110.0	9793.8	9472.1	8904.1	8750.2	8667.7	8838.4	8453.7
45°	11258.5	11245.9	11287.9	11047.2	10791.2	10557.6	10089.0	9921.1	9884.7	10084.8	9624.5
47.5°	12107.6	12138.4	12268.5	12166.4	12062.9	11857.2	11343.8	11268.3	11290.7	11532.7	10859.8
50°	12815.5	12851.8	13208.6	13326.1	13475.8	13355.5	12840.7	12794.5	12882.6	13100.9	12188.8
52.5°	13327.5	13401.6	13845.1	14386.5	14932.0	15013.2	14499.8	14457.8	14576.7	14610.3	13215.6
55°	13682.8	13748.6	14250.8	15241.2	16351.9	16701.7	16382.7	16220.4	16198.1	15866.5	14295.5
57.5°	13745.8	13738.8	14460.6	15793.8	17465.5	18367.8	18166.3	18006.9	17548.0	17027.6	15533.6
60°	13390.4	13431.0	14269.0	15985.4	18164.9	19628.2	19643.6	19436.6	18721.7	18156.5	16733.8
62.5°	12296.5	12461.6	13307.9	15483.2	18156.5	20136.0	20726.4	20568.3	19713.5	19081.2	17950.9
65°	10522.7	10581.4	11388.6	13762.5	16929.7	19923.4	21701.4	21642.6	20607.4	19979.3	18576.2
67.5°	7684.3	7556.9	8404.7	10837.4	14333.3	18683.9	22400.9	22475.0	21297.1	20164.0	17910.3
68°	7012.8	7050.5	7710.8	10114.2	13653.4	18246.1	22447.0	22560.3	21365.7	20043.7	17546.6
70°	4180.0	4252.7	4841.7	6963.8	10387.0	15768.6	21949.0	22207.8	20957.2	18802.8	15176.8
72.5°	1067.4	1154.1	1710.9	3116.8	5932.8	11110.2	18528.7	18966.5	18195.7	15253.8	10245.7
75°	439.3	461.6	611.3	1026.8	2210.3	5005.3	12212.5	13149.8	12614.0	9132.1	4630.4
77.5°	303.6	319.0	393.1	569.4	956.9	1696.9	5987.4	6664.4	6004.2	3116.8	1010.0
80°	218.2	230.8	281.2	379.1	549.8	605.7	1951.5	2256.5	1792.0	684.1	250.4
82.5°	130.1	139.9	209.8	270.0	334.3	289.6	485.4	551.2	519.0	339.9	111.9
85°	64.4	75.5	141.3	193.1	180.5	121.7	148.3	165.1	204.2	207.0	60.2
87.5°	4.2	8.4	82.5	116.1	50.4	28.0	43.4	53.2	72.7	102.1	25.2
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-SA9B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5
2.5°	3525.3	3526.7	3516.9	3512.7	3515.5	3498.7	3491.7	3494.5	3494.5	3498.7	3491.7
5°	3560.2	3560.2	3543.5	3521.1	3508.5	3476.3	3455.3	3449.7	3445.5	3442.7	3437.1
7.5°	3635.8	3627.4	3598.0	3549.1	3507.1	3437.1	3384.0	3356.0	3342.0	3336.4	3332.2
10°	3757.5	3742.1	3693.1	3602.2	3505.7	3381.2	3265.1	3182.5	3114.0	3086.0	3069.2
12.5°	3921.2	3898.8	3816.2	3665.2	3495.9	3266.5	3014.7	2772.7	2547.4	2455.1	2408.9
15°	4110.0	4077.8	3947.7	3718.3	3438.5	3007.7	2460.7	2036.8	1724.9	1607.4	1557.0
17.5°	4301.7	4259.7	4062.5	3751.9	3266.5	2471.9	1726.3	1303.8	1095.4	1039.4	1019.8
20°	4494.7	4433.2	4161.8	3726.7	2877.6	1782.2	1138.7	952.7	892.5	875.7	870.1
22.5°	4678.0	4582.9	4251.3	3628.8	2278.8	1196.1	900.9	842.1	822.6	812.8	810.0
25°	4837.5	4704.6	4329.6	3326.6	1613.0	903.7	811.4	791.8	766.6	748.4	749.8
27.5°	4987.1	4826.3	4377.2	2828.6	1075.8	772.2	751.2	724.6	678.5	651.9	651.9
30°	5167.6	4988.5	4412.2	2176.7	791.8	682.7	665.9	625.3	562.4	527.4	527.4
32.5°	5439.0	5234.7	4389.8	1527.6	656.1	600.1	561.0	505.0	436.5	402.9	401.5
35°	5854.5	5615.3	4230.3	1001.6	579.2	521.8	458.8	390.3	330.1	302.2	300.8
37.5°	6414.0	6124.5	3872.2	716.2	519.0	449.1	373.5	298.0	253.2	235.0	233.6
40°	7140.1	6716.2	3360.2	580.6	463.0	379.1	288.2	230.8	200.0	186.1	187.5
42.5°	8011.6	7349.9	2746.1	500.8	408.5	312.0	225.2	181.9	162.3	152.5	149.7
45°	8979.6	7975.2	2102.6	446.3	353.9	251.8	176.3	144.1	128.7	123.1	123.1
47.5°	10044.2	8583.8	1538.8	398.7	295.2	194.4	141.3	117.5	104.9	100.7	99.3
50°	11010.9	9006.2	1109.3	348.3	242.0	153.9	114.7	97.9	89.5	83.9	83.9
52.5°	11816.7	9139.1	817.0	293.8	195.8	123.1	95.1	83.9	75.5	71.3	71.3
55°	12525.9	9084.6	607.1	242.0	158.1	100.7	81.1	71.3	64.4	60.2	60.2
57.5°	13205.8	8908.3	453.2	197.2	127.3	81.1	68.5	60.2	53.2	50.4	50.4
60°	13761.1	8614.5	337.1	159.5	102.1	65.7	57.4	49.0	43.4	39.2	39.2
62.5°	14211.6	8290.0	247.6	131.5	81.1	51.8	44.8	40.6	32.2	28.0	28.0
65°	14214.4	7751.4	186.1	109.1	63.0	40.6	33.6	32.2	21.0	16.8	15.4
67.5°	13186.2	6682.6	142.7	93.7	49.0	30.8	25.2	26.6	11.2	7.0	5.6
68°	*12812.7*	*6411.2*	*134.3*	*92.3*	*46.2*	*29.4*	*23.8*	*26.6*	*9.8*	*5.6*	*4.2*
70°	10802.4	5100.5	107.7	89.5	40.6	22.4	19.6	26.6	8.4	4.2	2.8
72.5°	6909.3	2960.1	79.7	71.3	30.8	16.8	12.6	23.8	8.4	2.8	1.4
75°	2940.5	917.7	54.6	50.4	18.2	12.6	8.4	15.4	5.6	1.4	0.0
77.5°	619.7	207.0	32.2	30.8	12.6	8.4	5.6	4.2	1.4	0.0	0.0
80°	159.5	60.2	16.8	15.4	7.0	4.2	2.8	0.0	0.0	0.0	0.0
82.5°	50.4	23.8	9.8	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.2	14.0	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	4.2	1.4	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

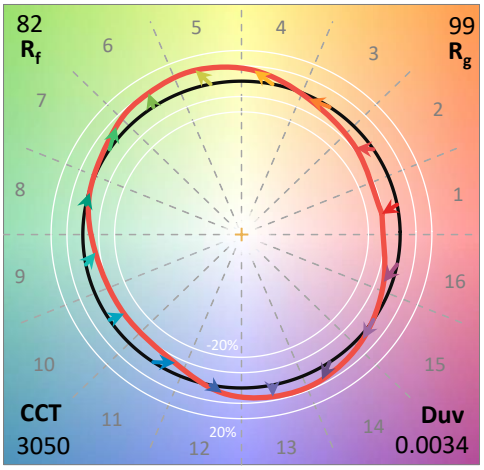
Test Information

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

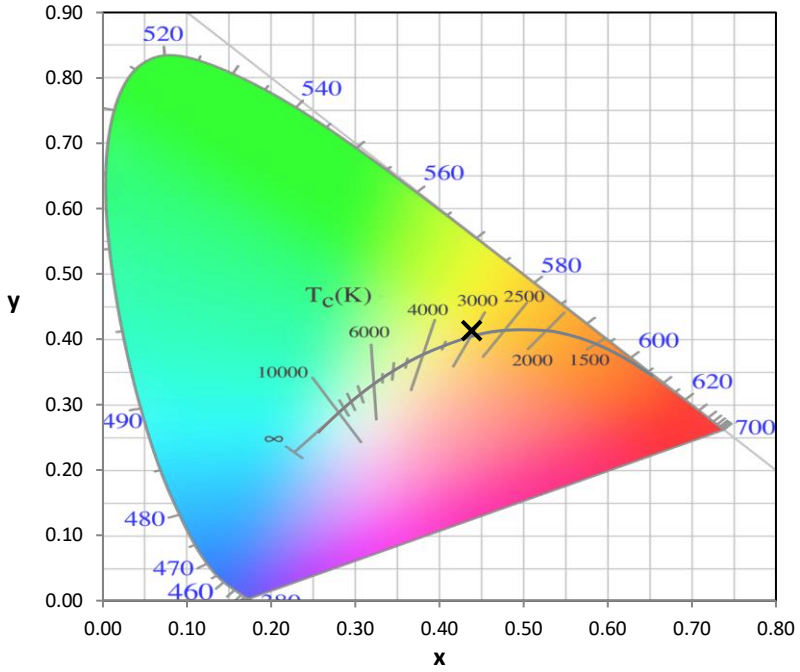
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

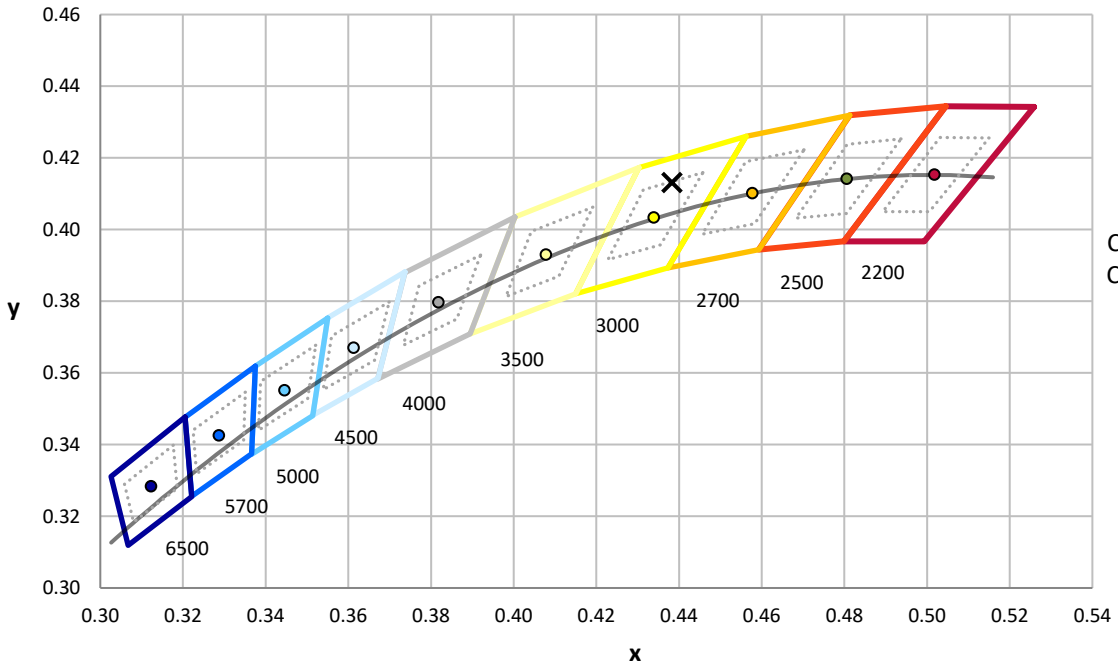
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

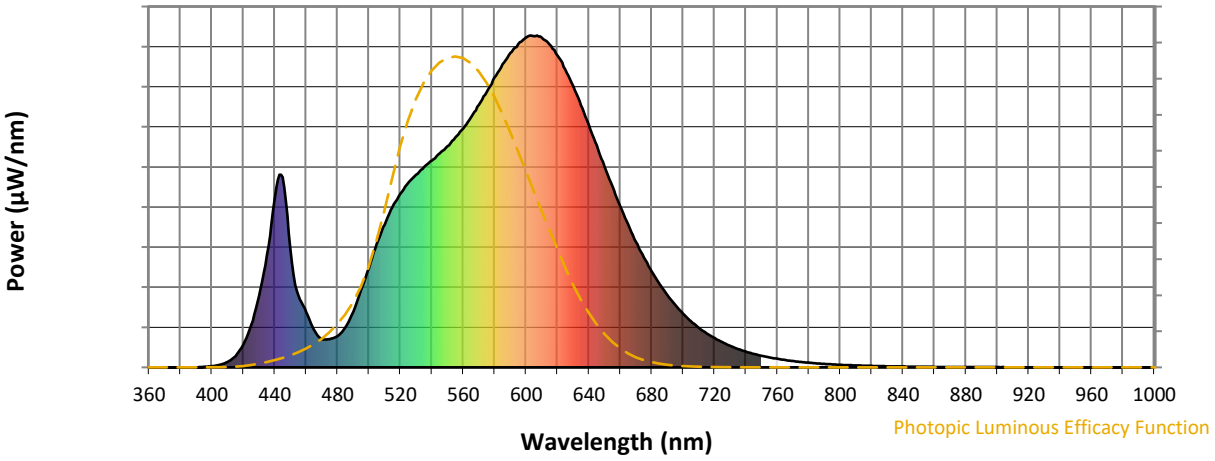


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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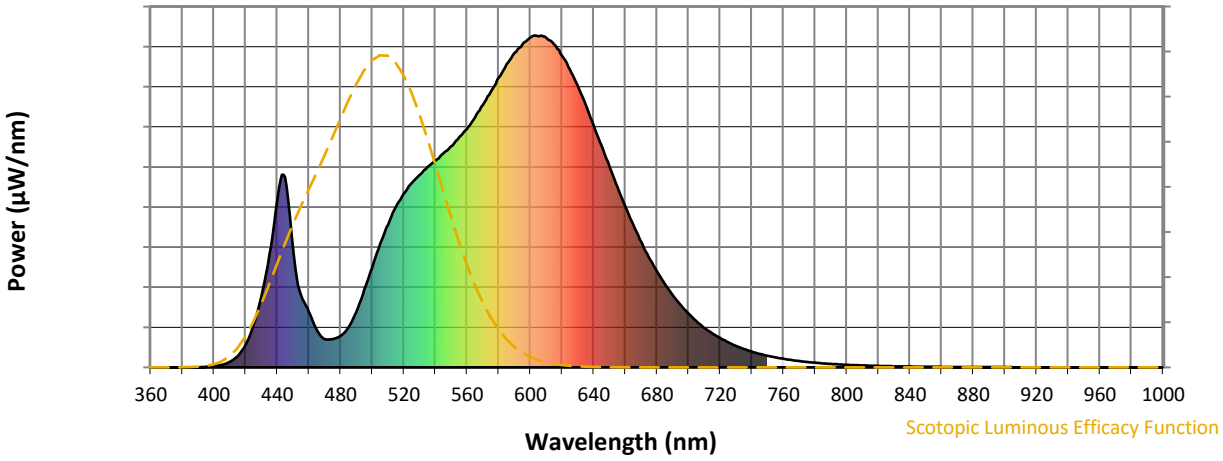
Scotopic Flux vs. Wavelength



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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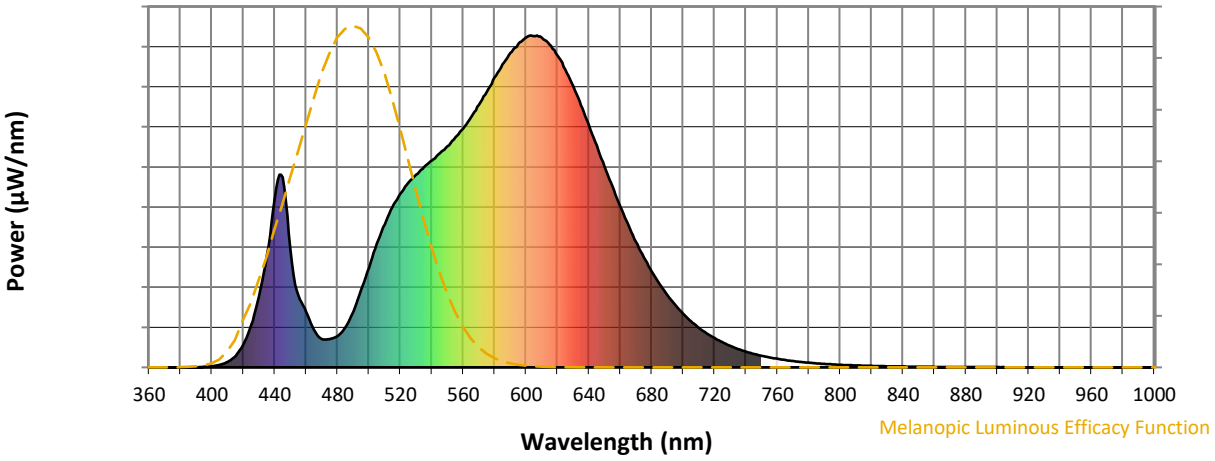
Melanopic Flux vs. Wavelength



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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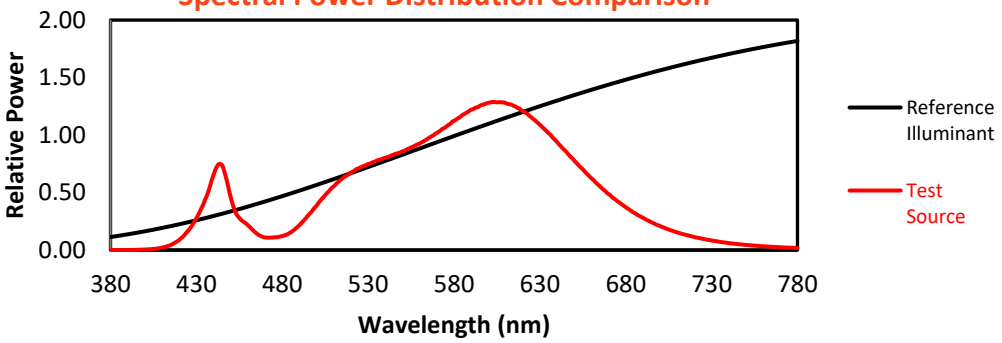
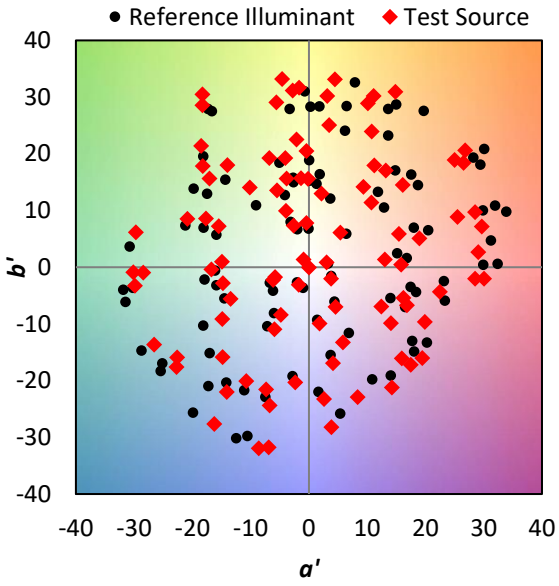
Summary

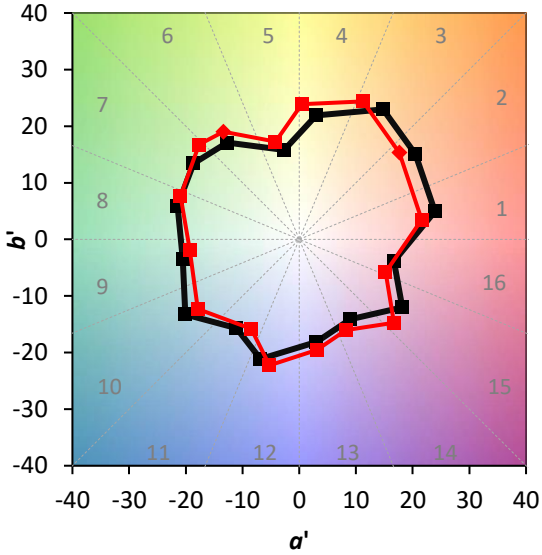
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

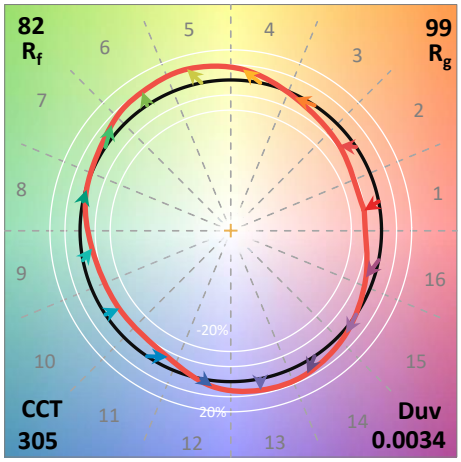
Spectral Power Distribution Comparison

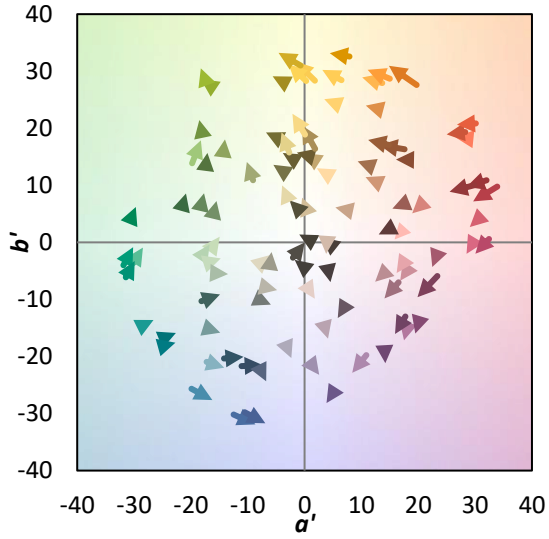


Color Vector Graphics









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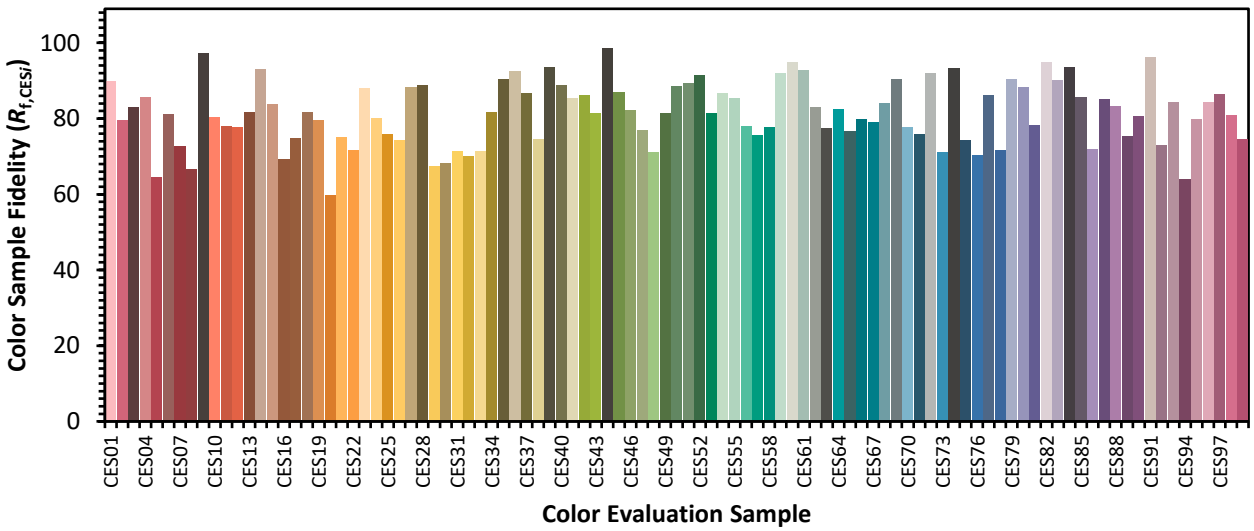
Individual Sample Fidelity Index ($R_{f,i}$)

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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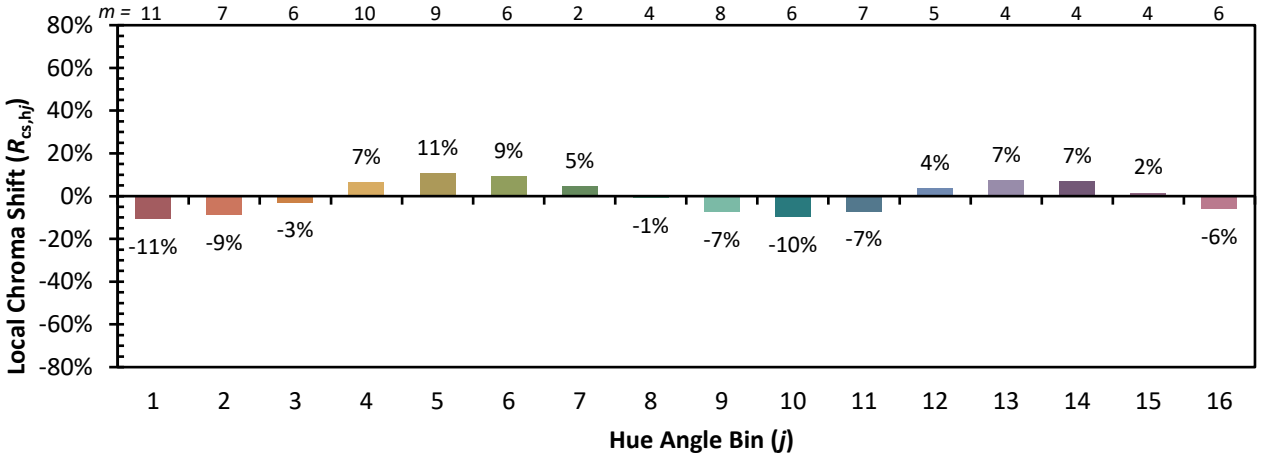
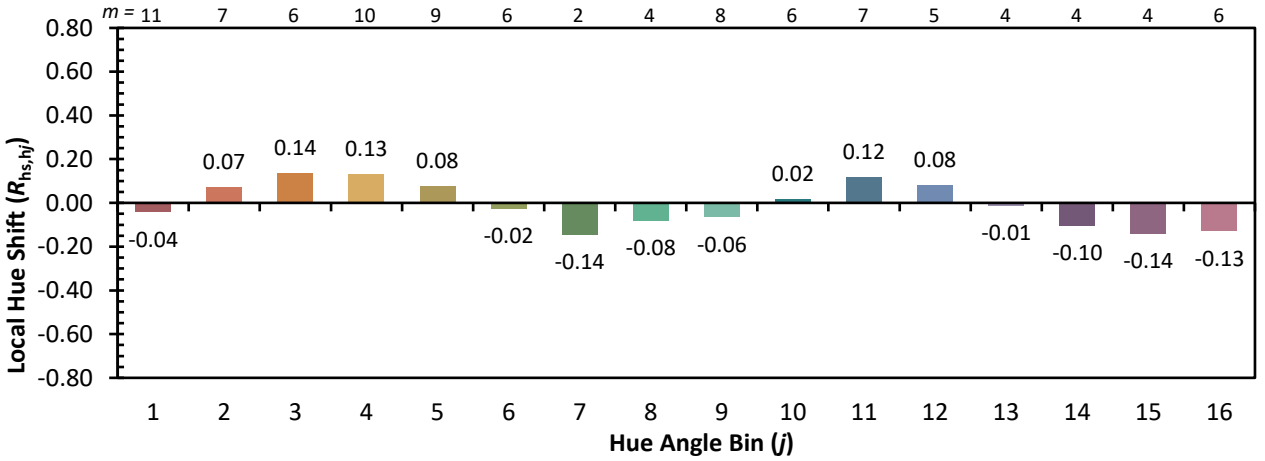
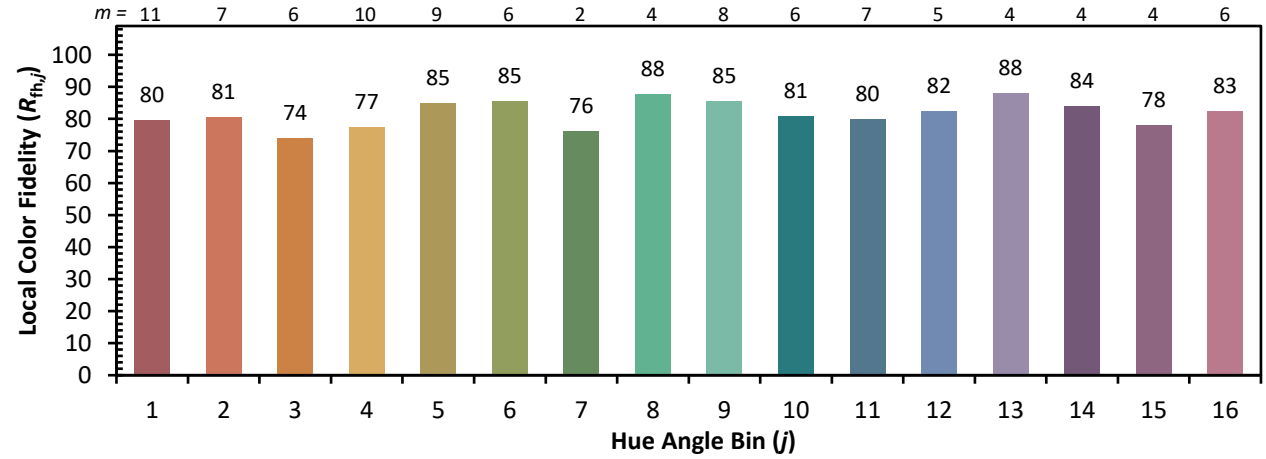
Color Rendition by Hue-Angle Bin







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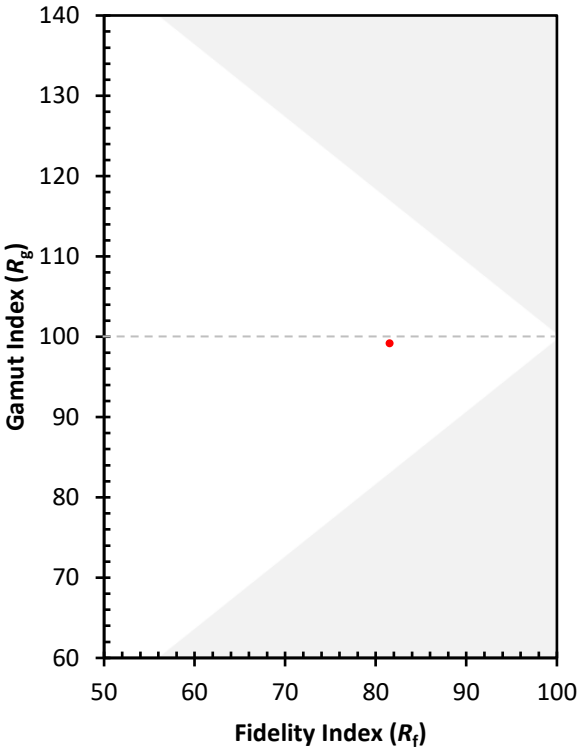
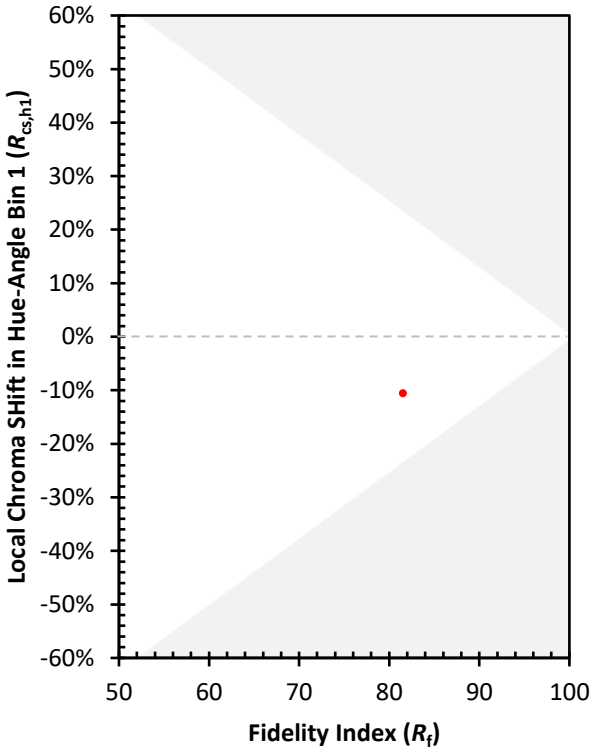
Measure Comparisons





(END OF REPORT)