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: P319829

Luminaire Tested: **GLEON-SA5A-830-U-SL3**

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:	P319829
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5A-830-U-SL3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18510 lumens
Efficiency:	N/A
Efficacy:	114.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	162
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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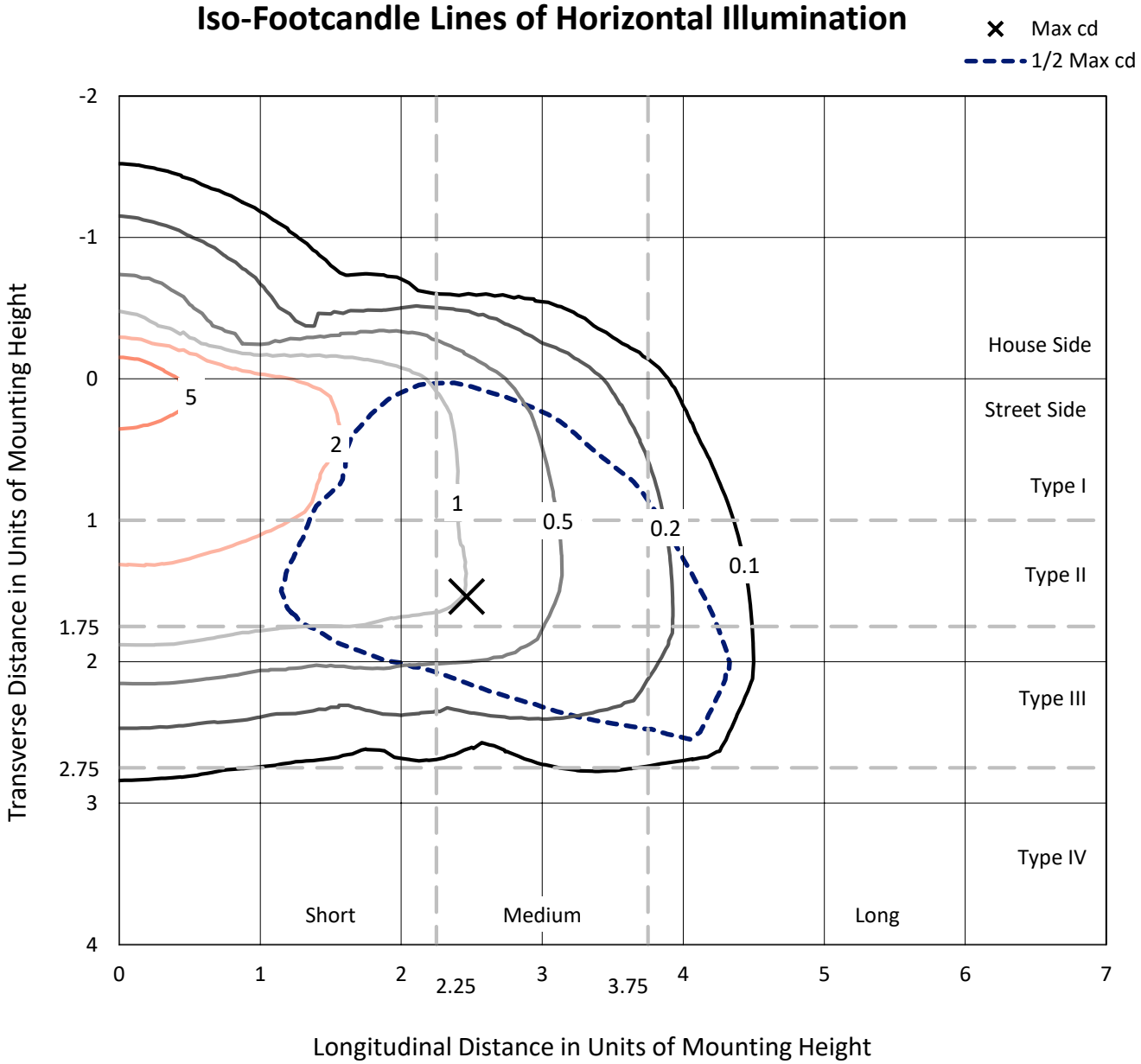
Scaled Data Report

REPORT NUMBER: P319829
CATALOG NUMBER: GLEON-SA5A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Medium - N/A

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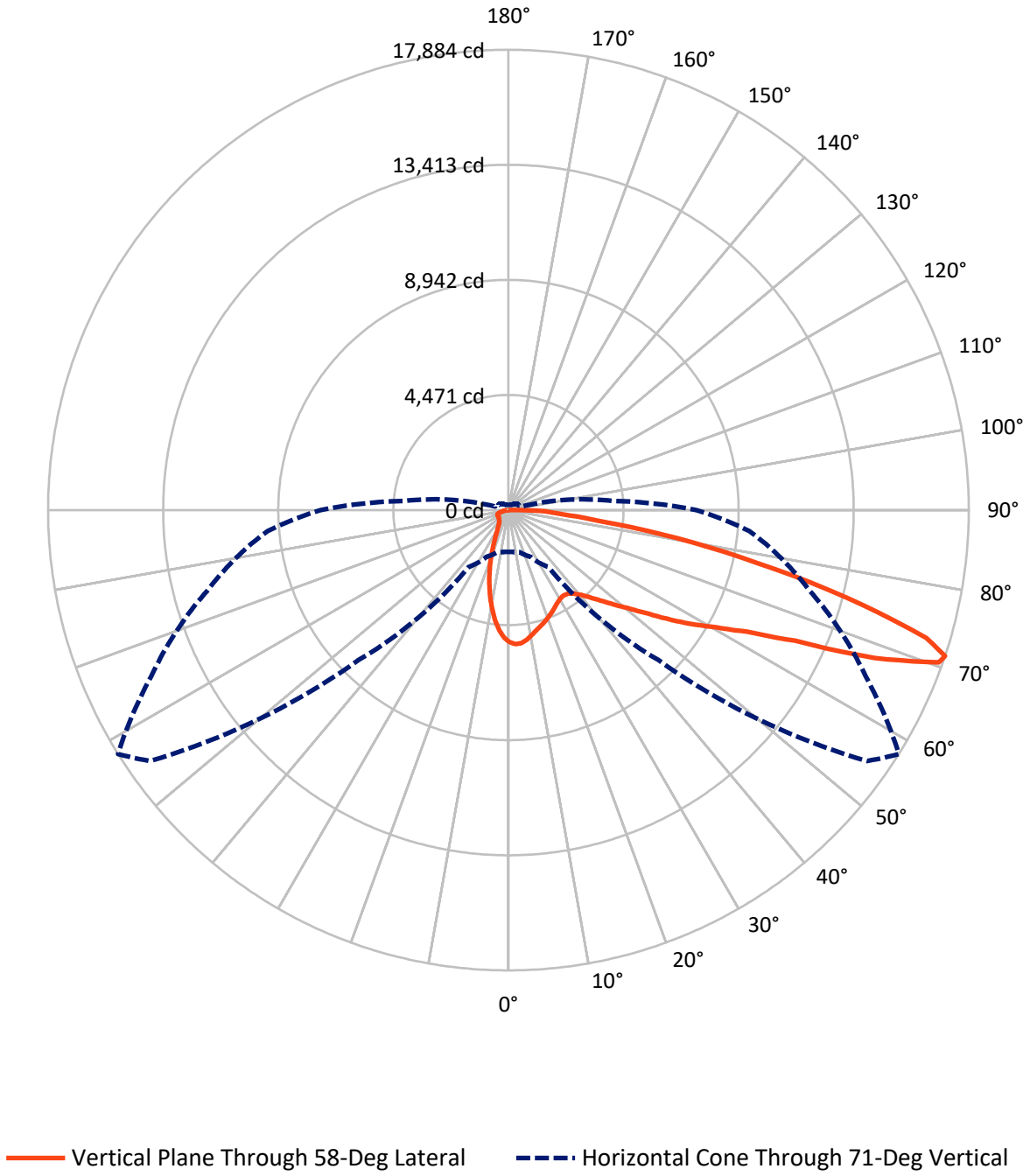
CATALOG NUMBER: GLEON-SA5A-830-U-SL3

Luminous Intensity Polar Plot



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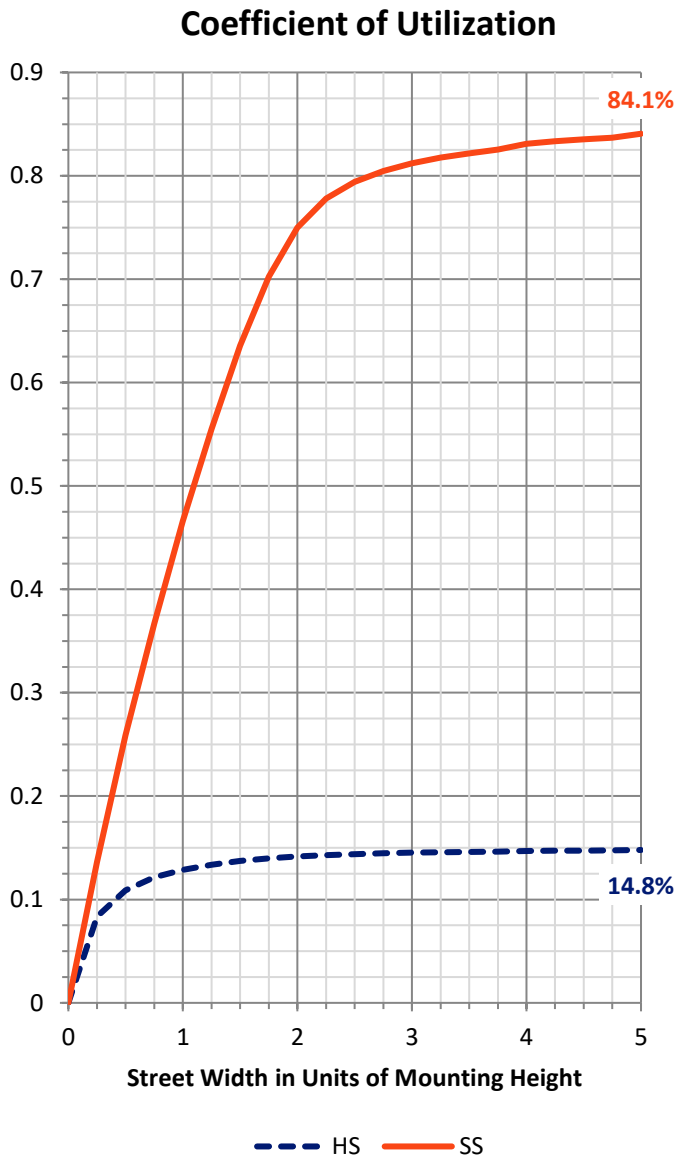
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2767.4	0.0	2767.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15742.6	0.0	15742.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	18510.0	0.0	18510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.4	2.4
10°-20°	983.8	5.3
20°-30°	1250.3	6.8
30°-40°	1592.7	8.6
40°-50°	2258.5	12.2
50°-60°	3495.1	18.9
60°-70°	4758.1	25.7
70°-80°	3174.2	17.1
80°-90°	555.0	3.0
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°	18510.0	100.0
0°-180°	18510.0	100.0



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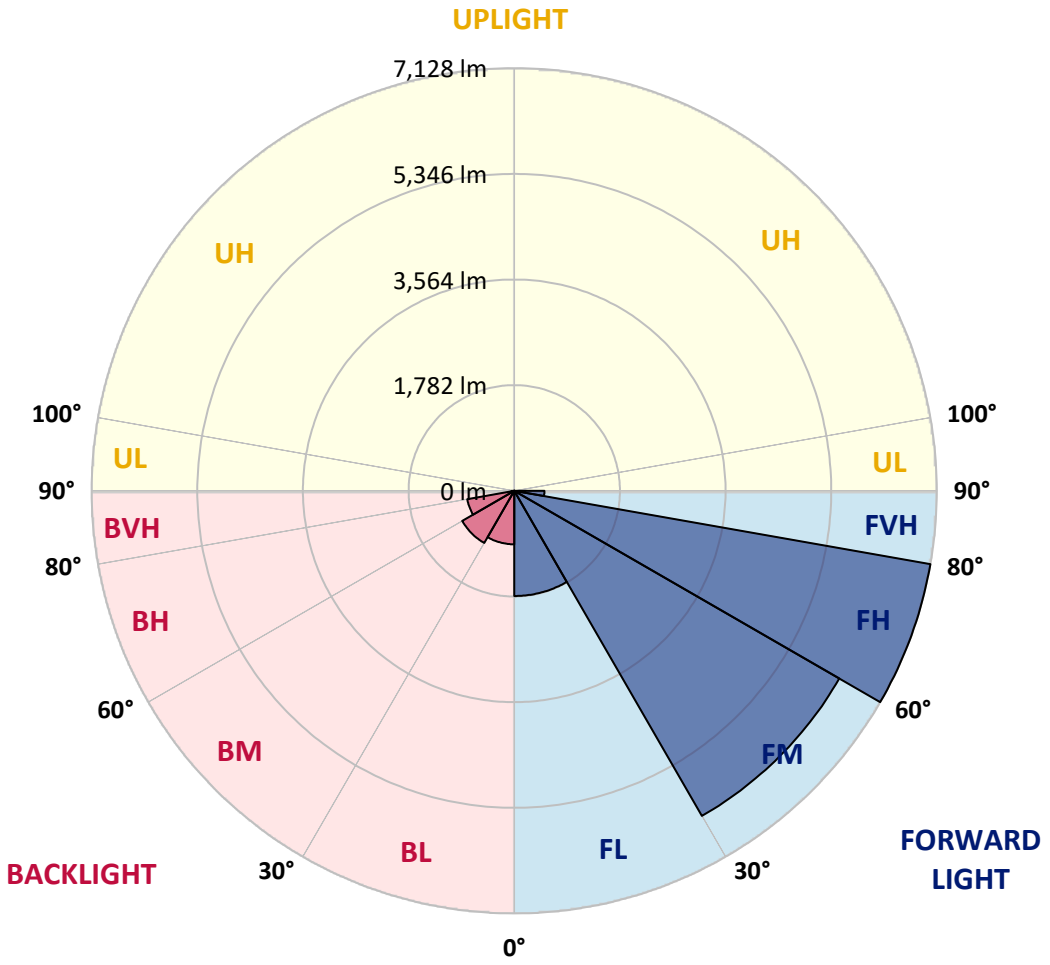
REPORT NUMBER: P319829
CATALOG NUMBER: GLEON-SA5A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1774.5	9.6			
FM	(30°-60°)	6331.3	34.2			
FH	(60°-80°)	7128.0	38.5			G3/7500
FVH	(80°-90°)	508.9	2.7			G4/750
BL	(0°-30°)	902.1	4.9	B2/1000		
BM	(30°-60°)	1014.9	5.5	B2/2500		
BH	(60°-80°)	804.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	46.1	0.2			G1/100
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 Medium



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REPORT NUMBER: P319829
CATALOG NUMBER: GLEON-SA5A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5
2.5°	5264.6	5257.5	5260.0	5254.9	5242.6	5230.4	5212.3	5215.6	5190.4	5153.0	5106.6
5°	5165.3	5162.7	5182.0	5193.0	5202.0	5194.9	5189.8	5196.2	5159.5	5107.9	5027.3
7.5°	4957.0	4928.6	4953.1	4989.9	5024.7	5051.1	5086.0	5090.5	5067.3	5013.1	4907.4
10°	4661.0	4634.0	4670.1	4727.5	4797.1	4860.3	4930.6	4943.5	4948.0	4899.0	4770.7
12.5°	4354.1	4333.5	4369.6	4450.2	4565.6	4663.0	4775.2	4794.5	4834.5	4801.6	4644.3
15°	4079.5	4071.7	4115.6	4194.9	4327.7	4476.6	4638.5	4673.9	4741.6	4730.7	4545.6
17.5°	3842.2	3840.3	3873.8	3957.0	4104.0	4292.2	4502.4	4562.4	4663.0	4675.9	4464.4
20°	3665.5	3661.7	3684.9	3746.1	3897.6	4111.1	4355.4	4438.0	4583.0	4628.2	4380.6
22.5°	3570.7	3570.1	3570.7	3599.8	3723.6	3922.1	4212.3	4312.9	4505.0	4590.1	4287.7
25°	3554.6	3552.7	3538.5	3535.3	3605.6	3764.2	4070.4	4181.3	4430.9	4563.7	4199.4
27.5°	3596.5	3599.1	3580.4	3550.1	3564.3	3660.4	3947.3	4065.9	4371.5	4558.5	4138.1
30°	3683.6	3682.3	3666.2	3634.6	3606.8	3621.7	3859.6	3978.2	4331.6	4581.1	4096.2
32.5°	3779.6	3786.7	3783.5	3766.1	3724.8	3665.5	3833.2	3949.2	4320.0	4635.3	4078.2
35°	3895.1	3902.8	3926.0	3939.5	3891.2	3795.8	3889.9	3990.5	4353.5	4737.1	4107.2
37.5°	4004.7	4024.7	4089.8	4147.2	4105.9	3999.5	4040.8	4112.3	4457.3	4897.7	4185.2
40°	4131.0	4148.5	4254.8	4376.7	4370.3	4260.0	4283.9	4331.6	4640.4	5127.9	4326.4
42.5°	4255.5	4290.3	4444.4	4617.2	4666.9	4569.5	4607.5	4632.7	4898.3	5432.8	4572.7
45°	4421.2	4458.6	4672.7	4880.9	4997.0	4942.2	5002.8	5012.4	5222.6	5848.1	4930.6
47.5°	4672.0	4714.6	4964.1	5182.7	5360.0	5365.8	5465.7	5461.9	5627.6	6323.3	5381.3
50°	5062.7	5124.0	5328.4	5532.8	5748.1	5868.1	6001.5	5982.8	6113.1	6829.4	5900.3
52.5°	5574.7	5603.1	5754.6	5905.5	6173.0	6441.9	6633.4	6616.6	6663.7	7349.7	6489.6
55°	6105.3	6126.6	6189.2	6271.7	6631.5	7069.9	7474.8	7448.4	7329.1	7890.1	7071.8
57.5°	6582.5	6625.7	6668.9	6703.0	7093.1	7726.3	8335.6	8337.5	8051.3	8472.9	7673.4
60°	6656.6	6694.7	6980.3	7249.8	7883.0	8601.9	9257.0	9237.6	8798.5	9105.5	8344.0
62.5°	5884.2	5969.9	6447.1	7164.0	8643.8	10203.5	10432.4	10408.5	9692.2	9885.0	9124.8
65°	4216.8	4314.2	4889.9	5967.4	8275.0	11968.2	12553.7	12232.6	10910.8	10843.8	10039.1
67.5°	2432.7	2455.9	2705.5	3570.7	6300.7	12060.4	15789.8	15340.4	12803.2	11931.5	10486.6
70°	1798.9	1798.3	1857.6	2197.4	3409.5	9843.1	17328.9	17731.8	14795.6	12289.3	9854.0
71°	1626.8	1628.7	1695.1	2000.1	2700.3	8238.9	17002.0	17884.0	15320.4	12112.7	9396.2
72.5°	1391.4	1397.9	1490.1	1793.8	2271.5	5681.7	15593.8	16971.0	15569.3	11676.8	8679.9
75°	1055.5	1070.3	1198.0	1512.0	2076.2	2881.5	11444.7	13551.8	13831.0	10303.4	6449.6
77.5°	753.1	769.9	914.3	1271.5	1973.6	2171.6	7664.4	9885.0	10178.4	6603.1	2909.2
80°	475.8	495.8	604.8	1011.6	1854.4	2062.0	4816.4	6644.4	5550.2	2112.9	740.2
82.5°	279.2	294.7	375.3	660.9	1514.6	1985.9	2833.8	3682.9	2160.0	638.3	336.6
85°	161.8	168.9	234.1	421.0	1100.0	1874.3	2082.0	2058.8	937.5	312.1	159.3
87.5°	75.4	83.8	138.6	219.9	610.6	1358.5	1645.5	1421.7	582.9	146.4	74.8
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: P319829
CATALOG NUMBER: GLEON-SA5A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5	5128.5
2.5°	5084.0	5073.1	5027.3	4986.7	4944.1	4888.7	4827.4	4819.7	4782.3	4789.4	4776.5
5°	4983.4	4955.7	4845.5	4745.5	4627.5	4521.8	4407.0	4354.1	4278.1	4272.9	4253.6
7.5°	4839.7	4788.1	4617.2	4427.6	4238.1	4057.5	3878.9	3761.6	3641.7	3590.7	3586.2
10°	4677.8	4590.1	4338.7	4058.2	3784.8	3521.1	3265.8	3076.8	2906.6	2826.0	2822.8
12.5°	4524.4	4394.8	4049.8	3668.1	3294.1	2952.4	2602.3	2354.1	2140.6	2069.1	2038.8
15°	4394.1	4211.6	3768.7	3280.6	2826.7	2352.1	1953.7	1692.5	1495.2	1426.9	1414.0
17.5°	4267.7	4033.0	3480.5	2889.2	2340.5	1818.9	1419.8	1225.7	1120.6	1092.9	1092.2
20°	4142.0	3849.3	3179.4	2488.8	1870.5	1360.5	1091.6	1004.6	969.1	965.9	960.7
22.5°	3999.5	3654.6	2862.8	2087.1	1459.8	1069.7	927.8	893.0	888.5	900.1	900.1
25°	3866.0	3461.1	2541.7	1693.8	1135.4	892.4	828.5	821.4	833.7	854.3	856.3
27.5°	3741.6	3274.8	2228.3	1344.3	909.8	786.0	759.5	767.9	789.8	813.7	814.3
30°	3639.1	3098.8	1924.0	1059.4	768.6	706.7	702.2	718.9	742.8	761.5	766.0
32.5°	3559.8	2948.5	1630.0	851.7	676.4	647.3	651.2	665.4	680.2	690.5	697.6
35°	3523.0	2819.6	1358.5	718.3	617.7	601.6	606.7	614.5	620.9	628.7	634.5
37.5°	3529.5	2719.6	1116.1	635.1	578.4	570.0	570.0	570.0	570.0	573.8	574.5
40°	3589.4	2662.3	918.8	582.2	551.9	542.9	535.8	529.4	524.2	526.8	525.5
42.5°	3742.9	2657.1	774.4	548.7	530.6	515.8	501.6	492.6	486.2	488.7	490.0
45°	4003.4	2721.6	677.0	524.8	510.7	488.1	470.0	460.4	455.9	464.2	465.5
47.5°	4340.6	2862.1	617.7	507.4	492.0	462.3	443.0	433.9	435.2	447.5	450.7
50°	4775.2	3090.4	589.3	496.5	479.1	440.4	420.4	412.7	416.5	433.9	437.8
52.5°	5252.3	3419.2	592.5	493.2	470.7	424.3	403.0	394.0	400.4	416.5	419.7
55°	5802.9	3814.5	646.1	497.8	458.4	413.9	388.8	373.3	378.5	393.3	395.9
57.5°	6414.8	4267.1	753.7	496.5	443.0	404.3	374.0	350.8	354.6	363.7	366.2
60°	7051.9	4813.9	920.7	500.3	435.9	392.7	354.0	325.0	323.7	331.4	332.7
62.5°	7816.6	5446.4	1111.6	502.9	440.4	377.8	327.5	299.2	295.3	297.2	298.5
65°	8604.5	5904.2	1040.0	492.6	454.6	365.6	304.3	274.0	266.9	265.6	266.3
67.5°	8629.0	5413.5	729.2	472.0	460.4	359.1	286.9	252.8	241.1	236.6	236.0
70°	7738.5	4398.0	568.0	450.1	437.2	348.8	270.8	235.3	217.9	210.8	210.2
71°	*7304.0*	*4048.5*	*538.4*	*439.1*	*419.7*	*338.5*	*263.7*	*227.6*	*209.6*	*201.8*	*200.5*
72.5°	6622.4	3629.4	502.3	421.7	386.2	312.1	250.2	216.6	197.9	188.9	187.0
75°	4752.6	2373.4	431.4	375.9	319.8	248.9	219.2	194.7	178.6	167.6	166.4
77.5°	1831.1	944.6	326.3	312.7	245.0	194.7	180.5	168.3	156.7	145.7	145.1
80°	566.1	422.3	237.9	235.3	177.3	145.1	140.6	137.3	132.8	121.2	118.6
82.5°	302.4	242.4	163.8	152.2	116.1	96.7	101.9	103.2	103.8	91.6	90.3
85°	144.4	128.3	92.2	86.4	67.7	54.2	62.5	67.7	68.3	56.1	52.2
87.5°	69.0	67.1	43.2	32.9	25.1	18.1	21.9	27.1	29.7	21.3	18.7
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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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

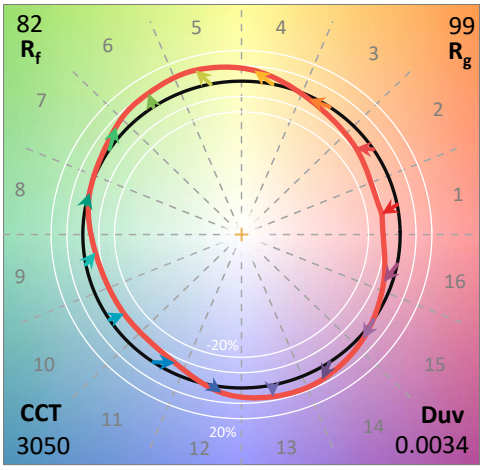
Test Information

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

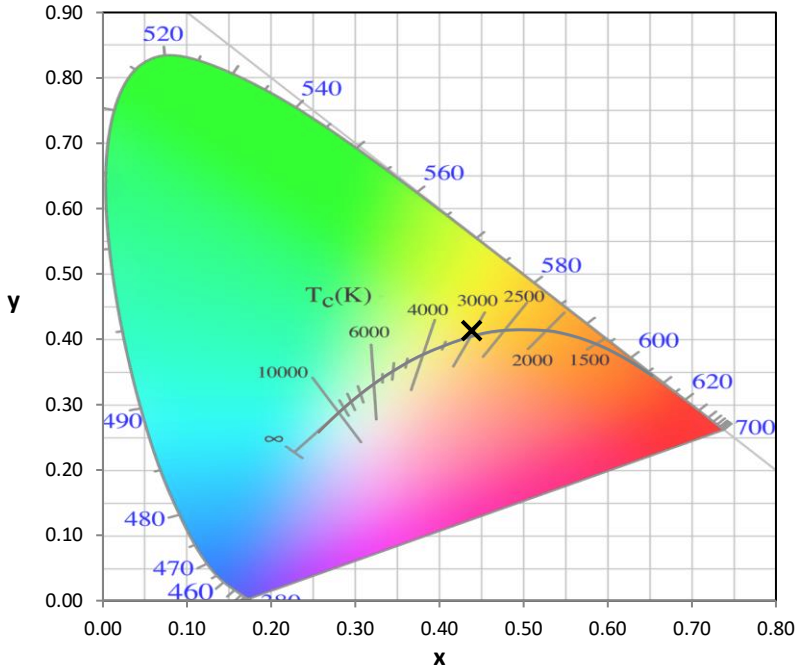
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

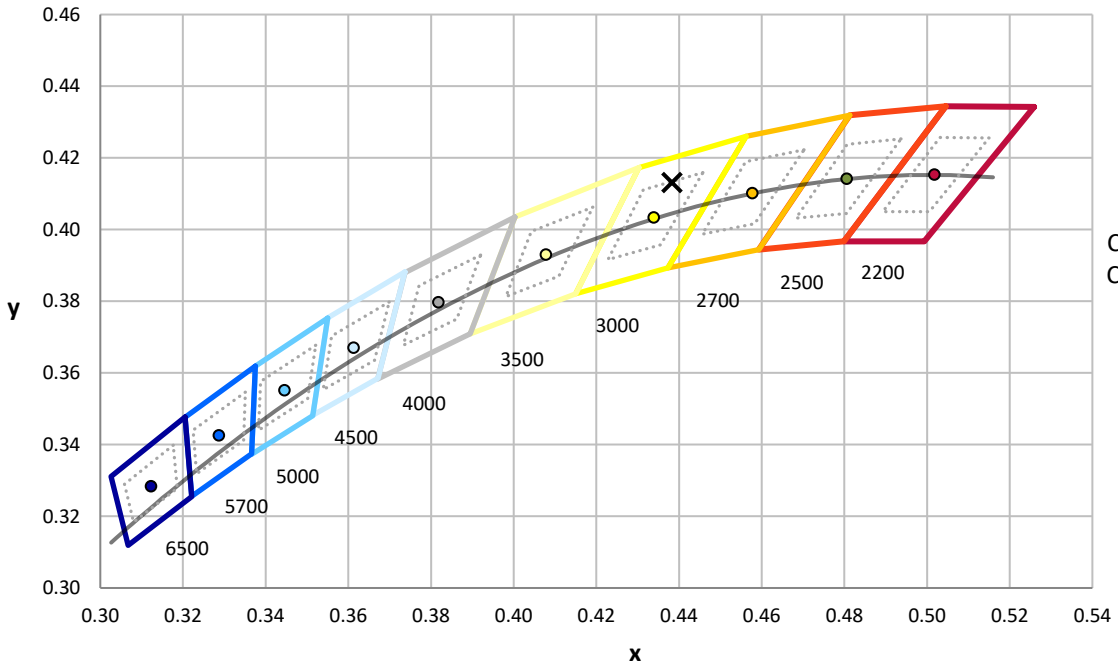
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

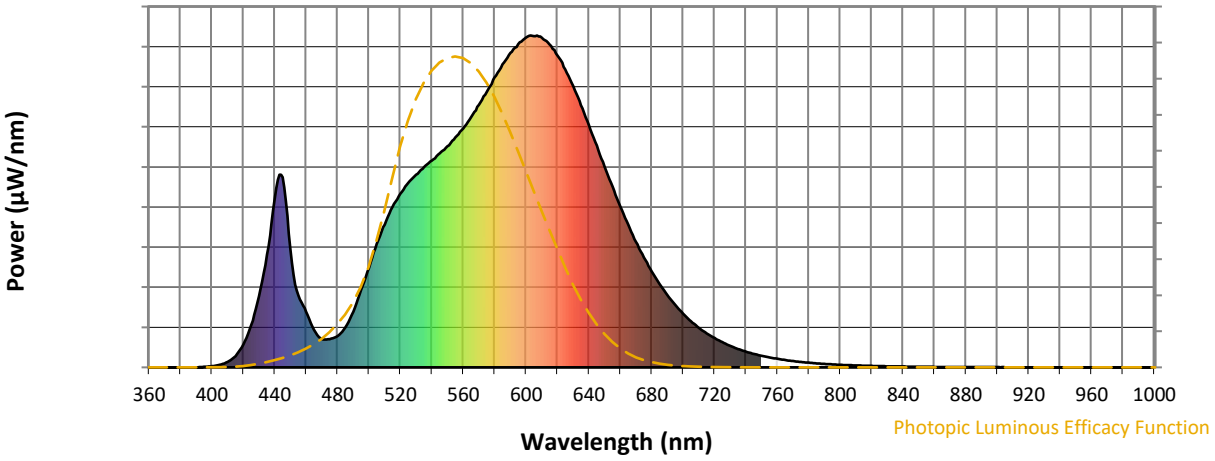


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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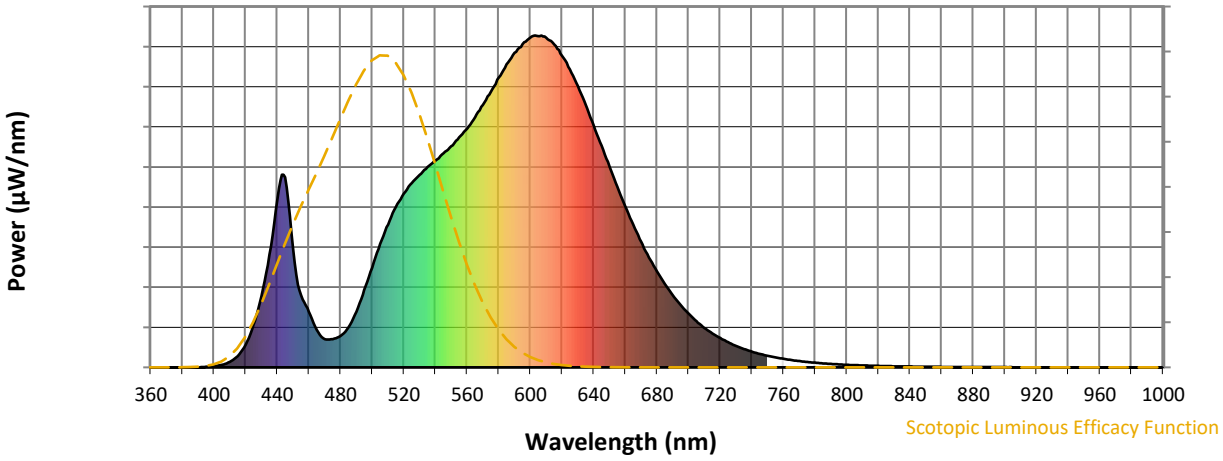
Scotopic Flux vs. Wavelength



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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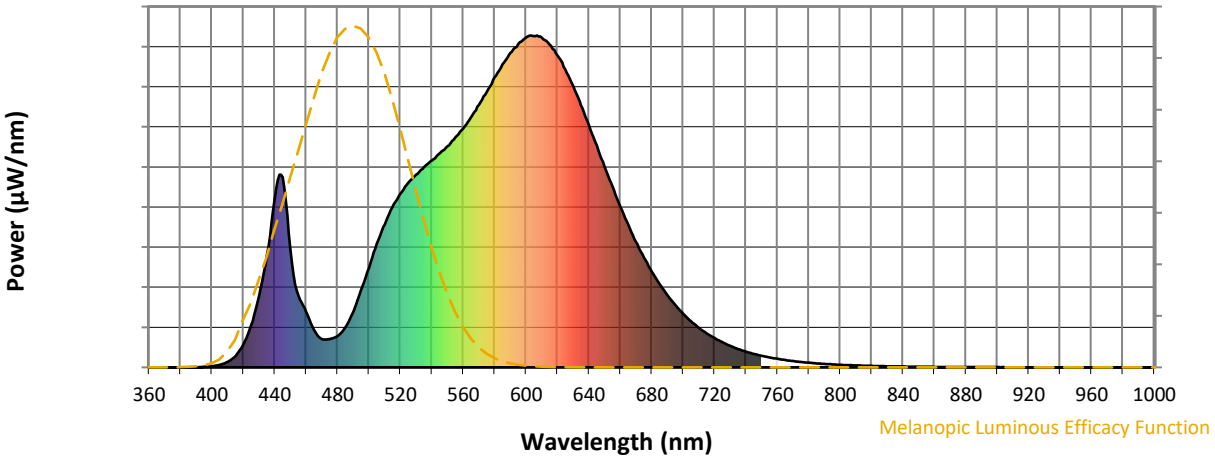
Melanopic Flux vs. Wavelength



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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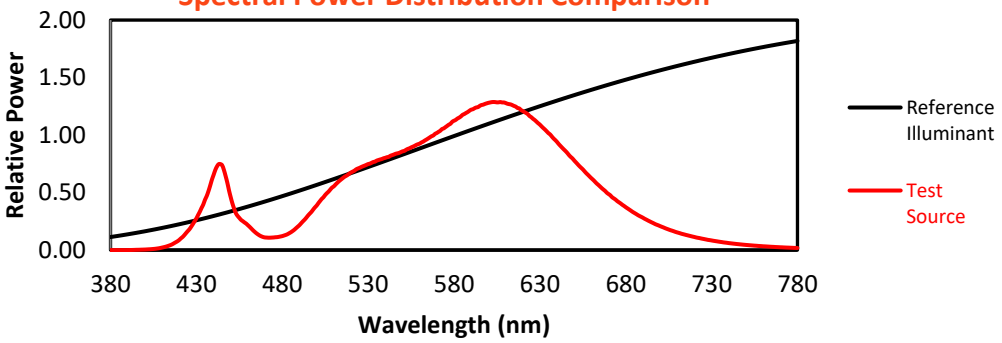
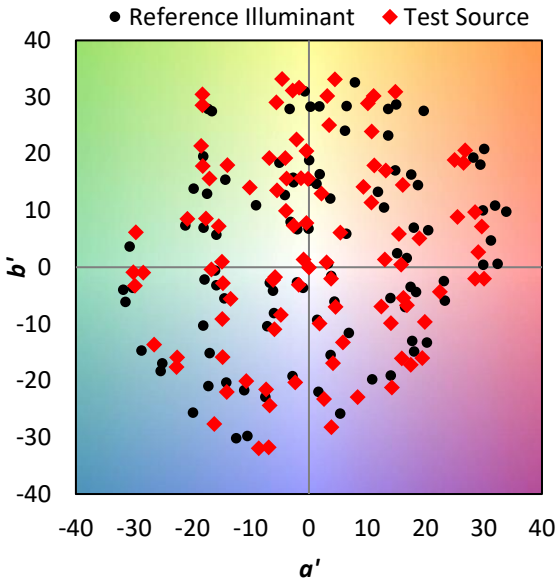
Summary

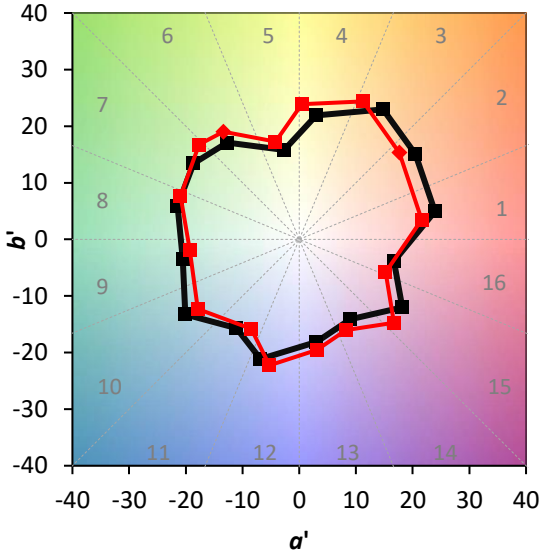
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

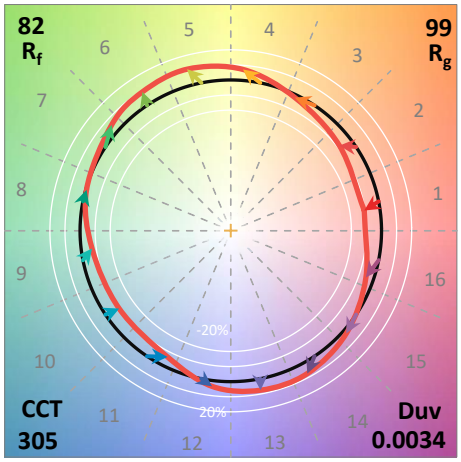
Spectral Power Distribution Comparison

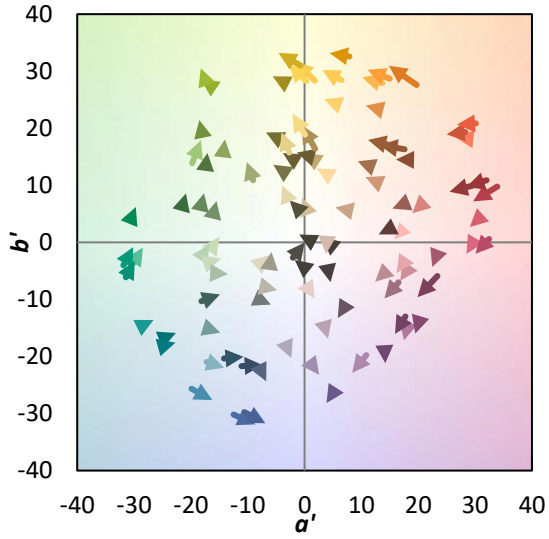


Color Vector Graphics









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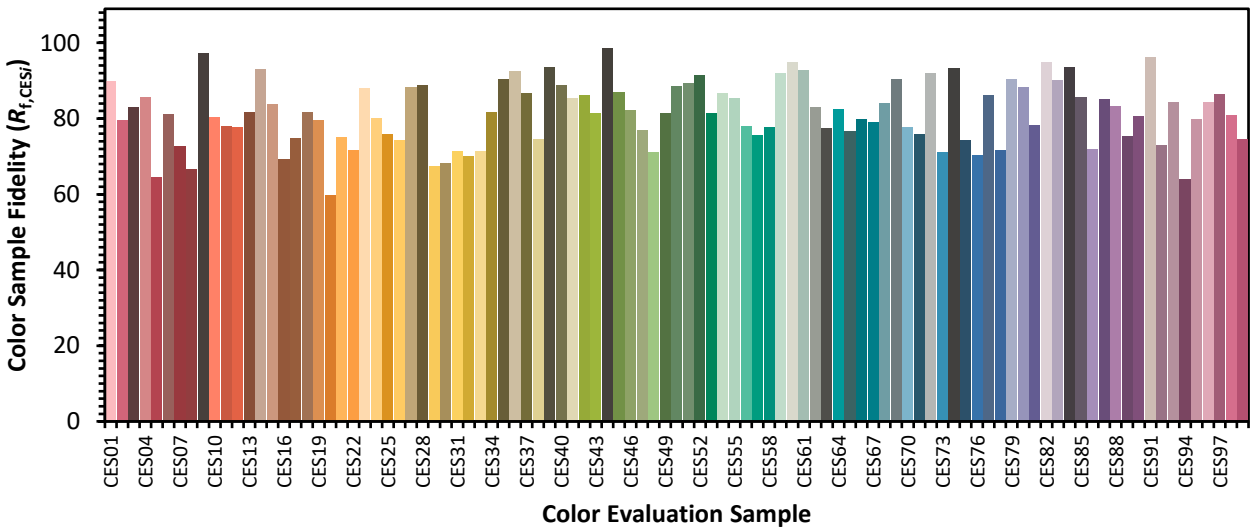
Individual Sample Fidelity Index ($R_{f,i}$)

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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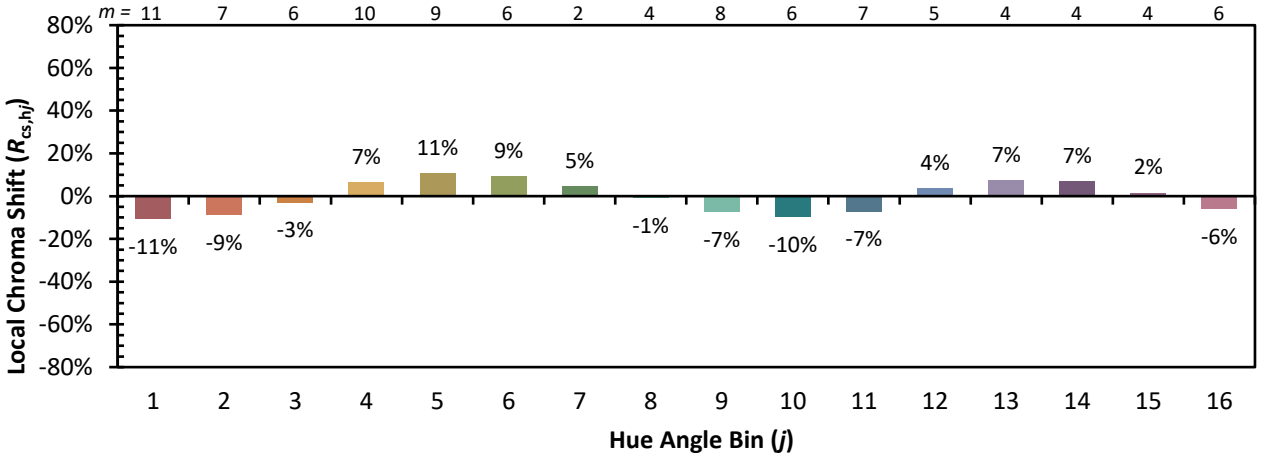
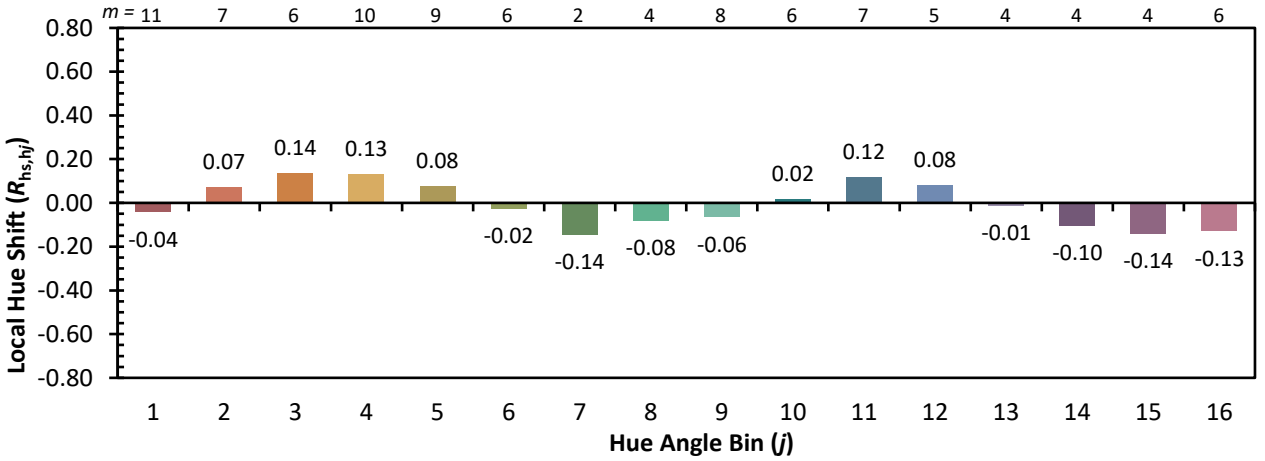
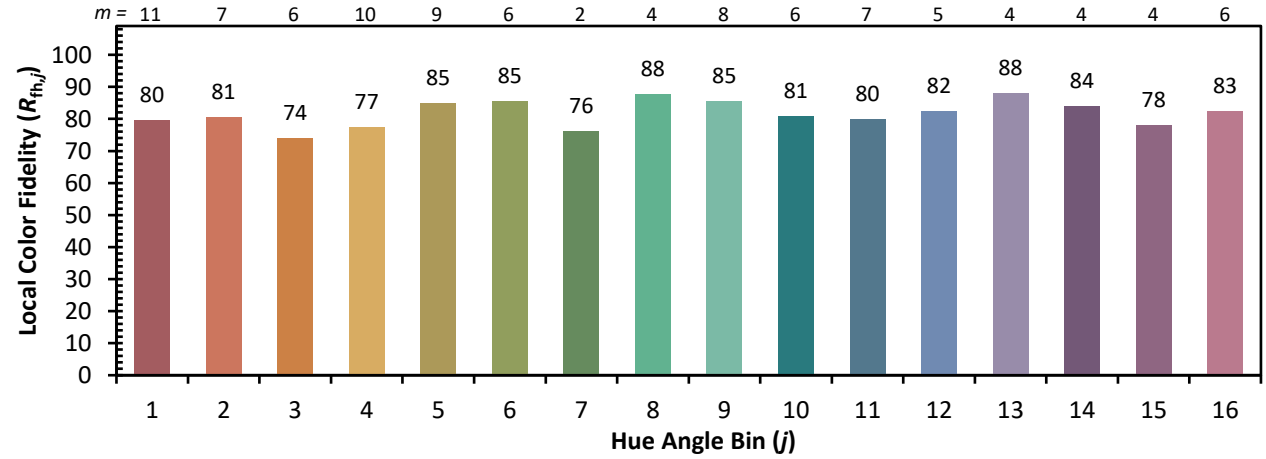
Color Rendition by Hue-Angle Bin







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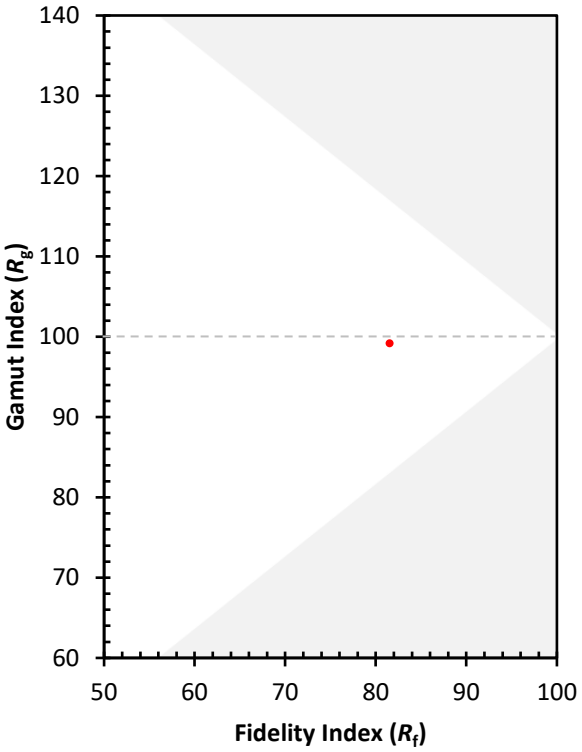
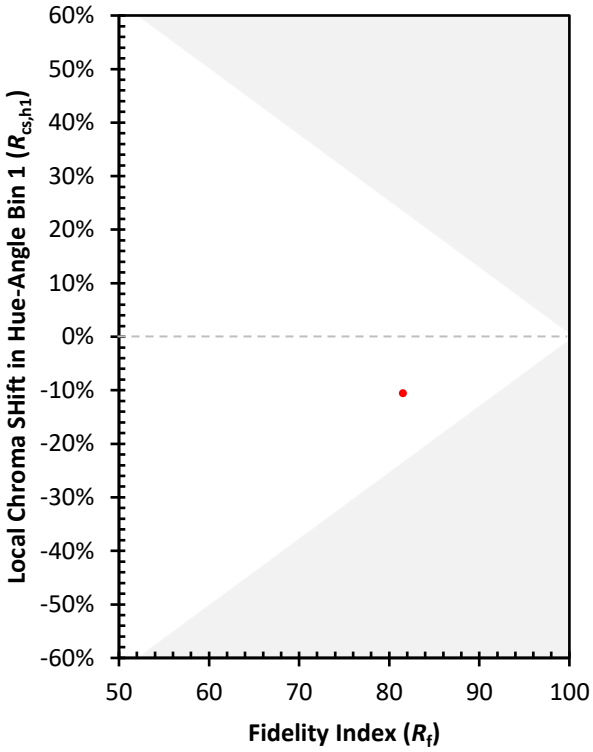
Measure Comparisons





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