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: P324948

Luminaire Tested: **GLEON-SA4A-830-U-AFL-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:	P324948
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4A-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12229 lumens
Efficiency:	N/A
Efficacy:	94.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	129
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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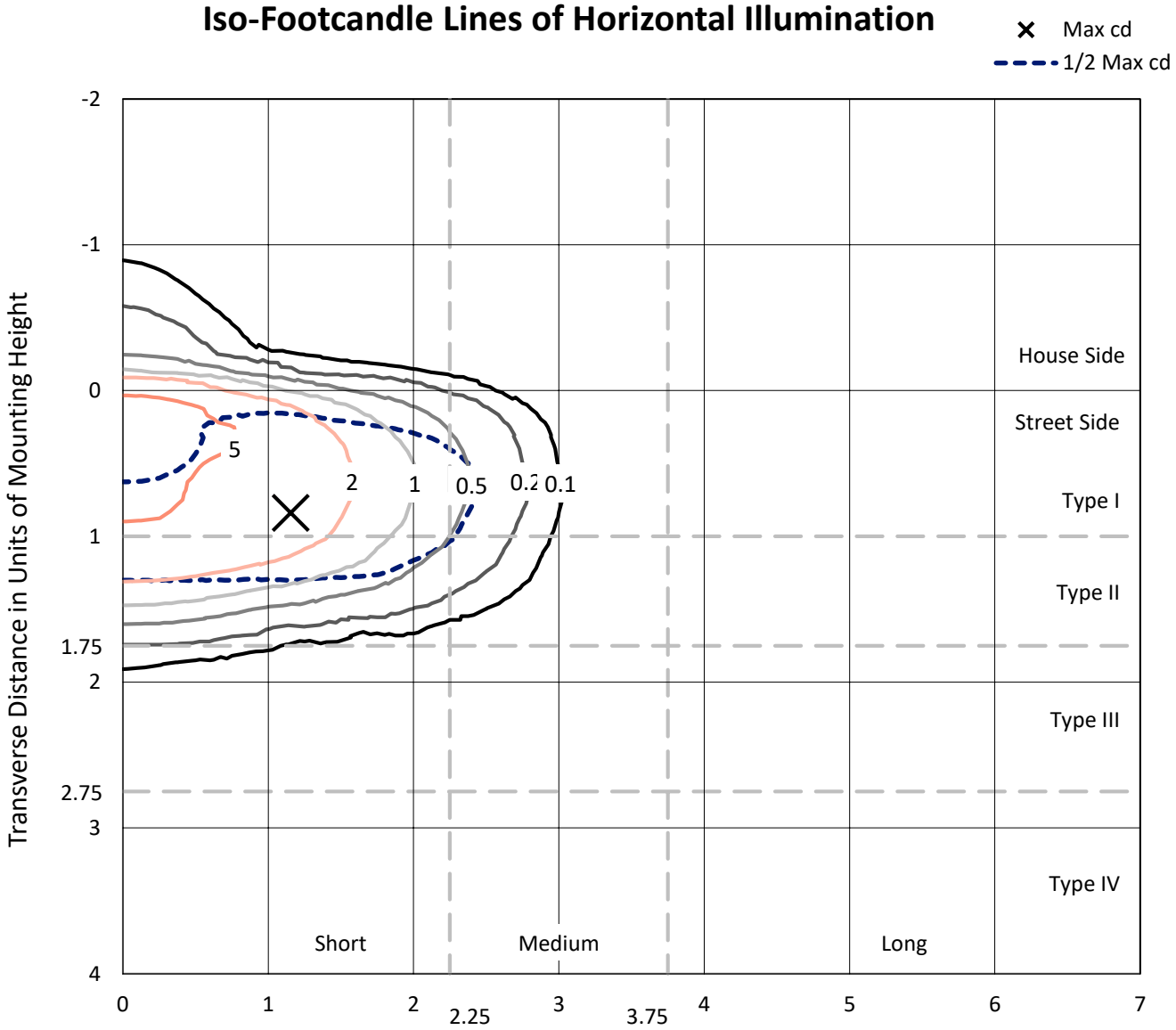
Scaled Data Report

REPORT NUMBER: P324948
CATALOG NUMBER: GLEON-SA4A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

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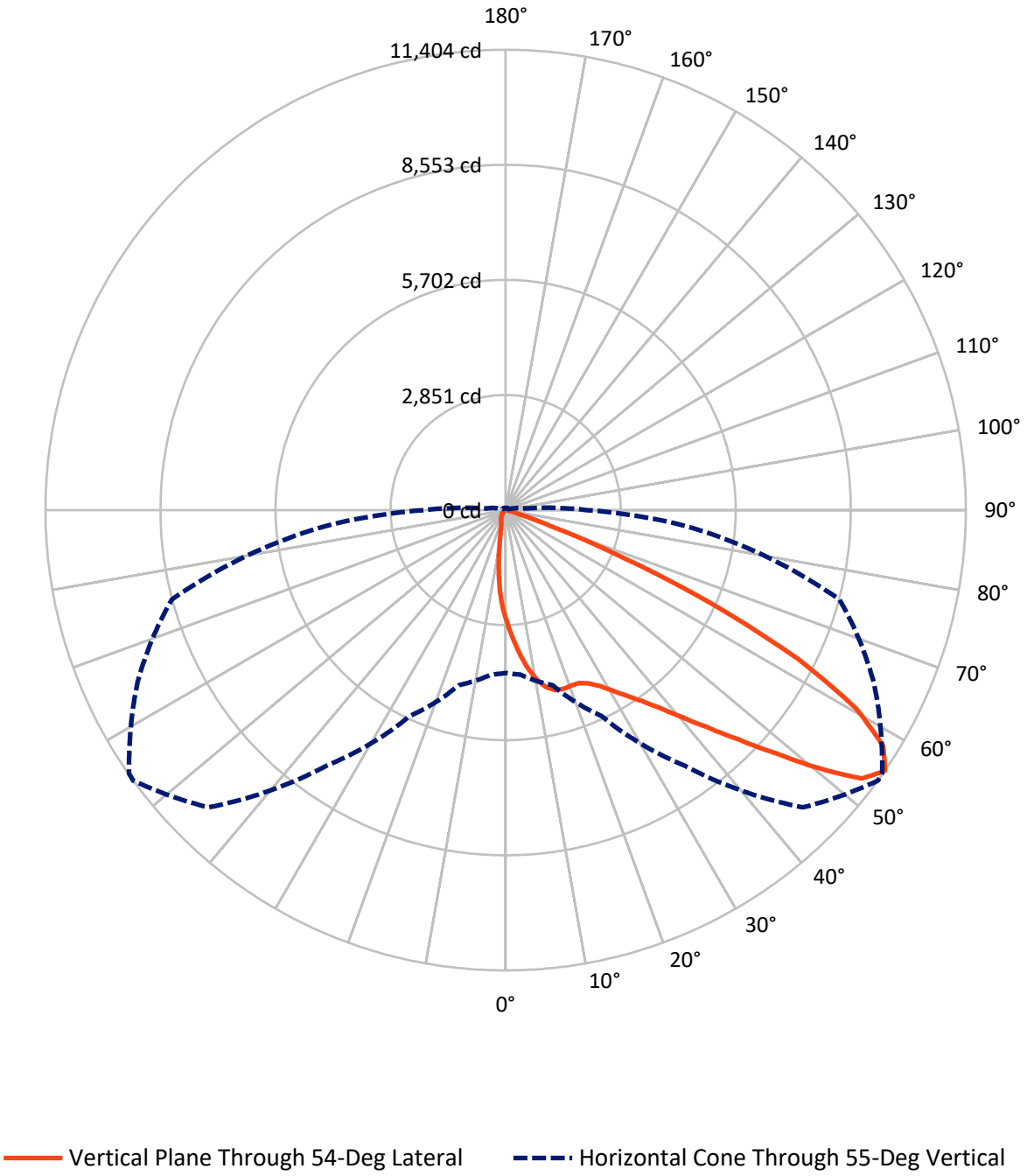
Luminous Intensity Polar Plot



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REPORT NUMBER: P324948
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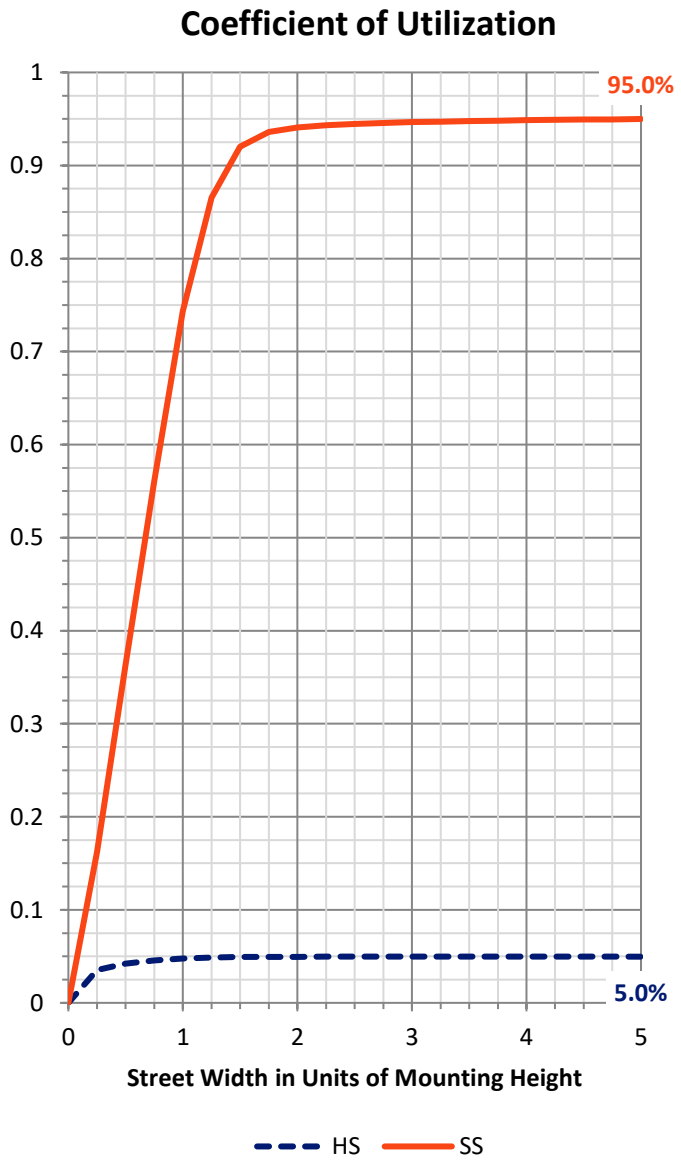
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	610.1	0.0	610.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11618.9	0.0	11618.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	12229.0	0.0	12229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	2.1
10°-20°	691.7	5.7
20°-30°	1181.0	9.7
30°-40°	1895.2	15.5
40°-50°	3028.6	24.8
50°-60°	3245.2	26.5
60°-70°	1666.2	13.6
70°-80°	252.4	2.1
80°-90°	16.4	0.1
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°	12229.0	100.0
0°-180°	12229.0	100.0



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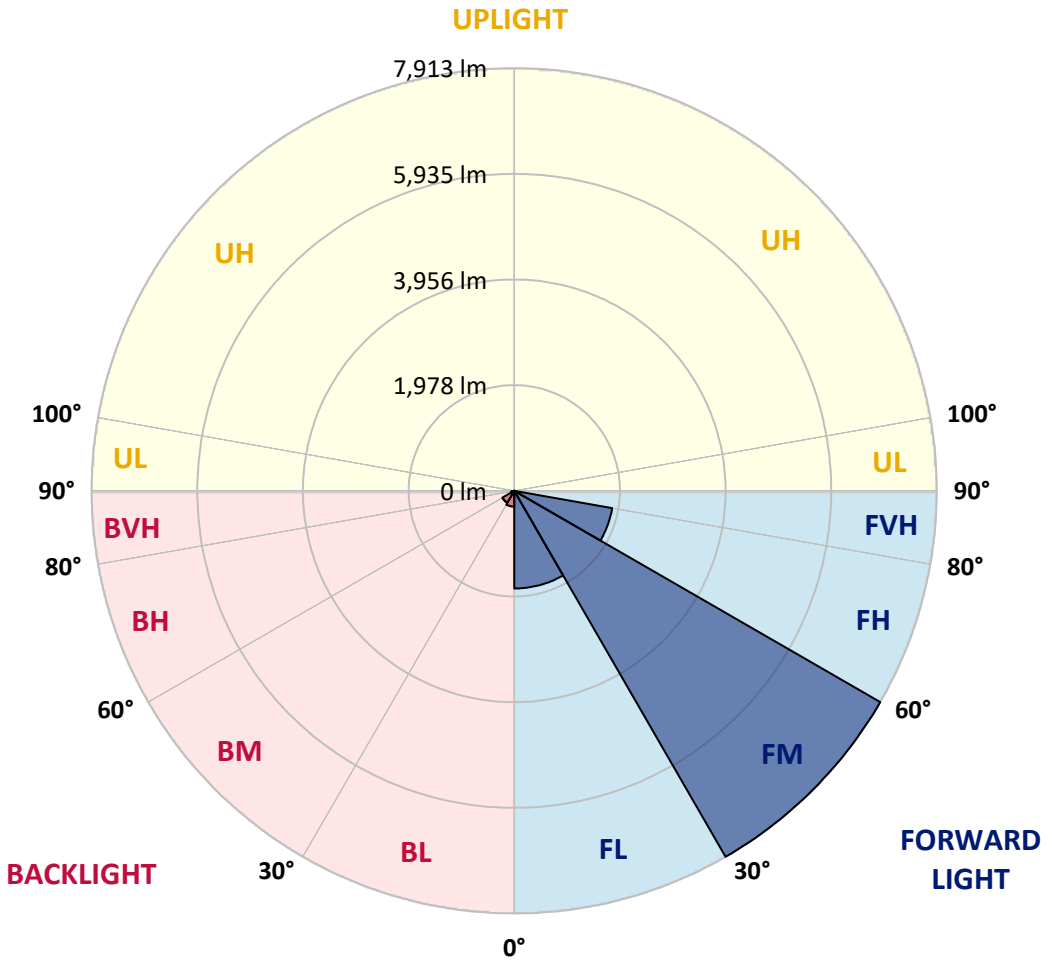
REPORT NUMBER: P324948
CATALOG NUMBER: GLEON-SA4A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1828.0	14.9			
FM	(30°-60°)	7912.7	64.7			
FH	(60°-80°)	1862.4	15.2			G2/5000
FVH	(80°-90°)	15.8	0.1			G1/100
BL	(0°-30°)	296.9	2.4	B1/500		
BM	(30°-60°)	256.4	2.1	B1/1000		
BH	(60°-80°)	56.2	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P324948
CATALOG NUMBER: GLEON-SA4A-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	*2738.8*	2738.8	2738.8	2738.8	2738.8
2.5°	3437.0	3385.7	3387.3	3364.1	3279.1	3212.5	*3143.3*	3127.0	3019.2	2906.2	2797.4
5°	4031.1	3993.6	3984.6	3939.7	3821.4	3696.3	*3562.1*	3531.0	3320.3	3088.9	2861.3
7.5°	4336.4	4336.9	4329.5	4313.1	4239.2	4117.7	*3954.0*	3921.3	3634.5	3287.5	2927.9
10°	4247.6	4267.7	4308.9	4363.3	4419.8	4404.5	*4281.4*	4251.9	3940.3	3497.7	3001.8
12.5°	4040.6	4043.2	4089.2	4178.4	4341.1	4508.0	*4510.1*	4500.1	4232.3	3717.4	3083.1
15°	3937.6	3947.7	3964.6	4022.1	4176.3	4443.6	*4634.7*	4649.0	4500.1	3950.8	3169.7
17.5°	4005.2	4019.5	4005.2	4012.1	4101.3	4341.6	*4656.4*	4692.8	4734.0	4181.6	3251.6
20°	4188.5	4201.7	4176.3	4148.3	4165.8	4312.1	*4641.1*	4690.2	4917.3	4386.5	3320.3
22.5°	4435.6	4440.9	4402.4	4356.4	4343.7	4412.4	*4653.8*	4704.4	5064.1	4571.9	3363.6
25°	4707.6	4712.4	4664.3	4611.5	4581.4	4609.4	*4757.8*	4795.8	5193.5	4748.8	3388.4
27.5°	5003.9	5008.1	4947.9	4883.0	4848.1	4849.2	*4929.4*	4970.1	5331.3	4950.6	3408.5
30°	5317.1	5315.0	5259.5	5169.2	5124.8	5123.8	*5176.6*	5217.8	5531.0	5209.3	3435.9
32.5°	5668.8	5664.6	5585.9	5473.9	5423.7	5431.1	*5478.1*	5501.9	5778.6	5485.0	3485.0
35°	6131.9	6119.8	6001.0	5862.1	5769.7	5767.0	*5806.6*	5825.6	6094.4	5818.8	3566.9
37.5°	6732.9	6721.8	6560.8	6359.0	6229.1	6180.5	*6227.5*	6251.8	6544.9	6247.1	3698.4
40°	7325.5	7314.4	7218.8	7034.0	6833.8	6717.1	*6754.1*	6779.9	7107.4	6766.7	3864.2
42.5°	7734.2	7743.8	7777.0	7792.3	7604.9	7359.8	*7376.7*	7403.6	7698.3	7322.3	4053.8
45°	7842.0	7862.6	8050.6	8419.7	8490.0	8298.8	*8121.9*	8136.7	8298.8	7877.9	4243.4
47.5°	7518.2	7556.3	7919.1	8605.6	9200.3	9335.5	*9000.7*	8981.1	8875.0	8327.3	4378.1
50°	6782.6	6817.4	7287.5	8303.0	9415.8	10325.2	*10053.7*	9996.2	9380.4	8596.1	4425.6
52.5°	5717.9	5760.2	6142.0	7350.3	9009.6	10766.7	*11050.8*	11002.8	9751.1	8617.3	4433.5
55°	*4038.0*	*4089.2*	*4493.2*	*5633.4*	*7722.6*	*10415.5*	*11404.1*	*11389.9*	*10059.0*	*8561.3*	*4450.4*
57.5°	2269.3	2306.3	2742.0	3611.3	5656.1	9072.0	*11035.0*	11129.5	10244.9	8464.1	4475.8
60°	1007.6	1017.7	1243.2	1797.7	3311.3	6933.1	*9978.2*	10137.7	10085.4	8334.2	4518.6
62.5°	558.7	550.3	550.3	747.3	1439.1	4292.0	*8136.7*	8400.2	9404.7	8180.5	4520.7
65°	437.8	429.9	407.2	410.3	548.2	1904.9	*5634.5*	6102.9	8111.8	7730.0	4368.6
67.5°	371.3	364.4	341.7	332.7	340.6	628.5	*3095.8*	3582.2	6155.2	6559.2	3783.9
70°	313.7	308.9	297.3	286.2	266.2	310.5	*1184.6*	1515.2	3792.9	4363.3	2583.0
72.5°	252.4	250.3	254.6	245.0	220.8	207.0	*405.1*	490.6	1703.7	1947.2	1064.2
75°	217.6	216.5	218.6	209.1	181.7	144.2	*206.0*	225.0	480.6	476.4	215.5
77.5°	141.5	143.1	181.1	176.9	156.3	96.1	*106.7*	115.1	145.8	109.3	65.5
80°	90.3	89.3	91.9	146.8	140.5	73.4	*53.3*	56.0	70.2	53.9	31.7
82.5°	54.9	53.9	60.2	68.7	70.8	51.2	*32.7*	33.3	43.8	34.9	16.9
85°	4.8	6.3	36.4	33.8	24.3	15.8	*15.8*	16.9	23.2	20.6	9.5
87.5°	0.0	0.0	6.3	9.5	5.3	5.8	*5.8*	6.3	9.0	9.0	4.8
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: P324948
CATALOG NUMBER: GLEON-SA4A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	2740.9	2686.0	2575.1	2468.4	2378.1	2291.0	2191.7	2093.4	2047.5	2029.0	2010.0
5°	2745.7	2632.7	2404.0	2173.7	1935.0	1720.1	1536.8	1348.8	1254.8	1213.6	1194.6
7.5°	2752.0	2579.8	2210.2	1823.6	1439.1	1147.6	893.0	729.3	658.6	647.5	620.0
10°	2753.1	2515.9	1985.2	1437.0	964.9	691.8	532.3	447.8	416.7	411.4	402.4
12.5°	2755.2	2440.4	1735.4	1064.2	643.2	462.6	385.0	357.0	348.6	348.0	348.0
15°	2761.5	2361.2	1476.1	766.8	462.1	366.5	338.0	326.9	323.7	325.3	324.8
17.5°	2761.5	2267.7	1221.5	571.4	373.4	329.5	313.7	306.3	305.3	306.8	307.4
20°	2741.4	2154.2	988.1	444.7	331.1	305.8	291.5	284.7	282.0	283.1	283.6
22.5°	2693.4	2014.8	798.0	368.1	303.1	284.1	268.8	258.2	254.0	254.6	254.6
25°	2618.4	1849.5	624.2	318.5	280.4	260.9	242.9	230.8	228.1	227.6	228.7
27.5°	2522.3	1666.7	497.0	280.4	253.5	235.0	217.1	207.0	204.9	205.4	206.0
30°	2427.7	1477.1	391.9	248.2	223.4	206.0	192.2	187.5	187.5	189.1	189.6
32.5°	2341.1	1294.9	310.0	220.2	196.5	180.6	172.7	172.2	174.8	175.9	176.4
35°	2266.7	1126.5	256.7	198.6	175.3	161.6	159.0	161.1	164.2	166.4	166.9
37.5°	2213.9	976.0	224.4	180.6	159.0	147.9	147.3	151.6	155.8	160.5	161.6
40°	2191.7	848.7	202.3	164.8	145.8	137.3	135.7	141.5	149.5	156.3	157.4
42.5°	2173.2	744.6	183.3	149.5	135.2	123.1	122.5	129.9	139.4	146.3	147.9
45°	2157.4	661.2	165.8	133.1	121.5	105.6	107.2	116.7	124.1	131.5	133.1
47.5°	2124.6	592.5	146.8	115.7	100.3	90.3	93.5	101.9	107.7	118.8	120.4
50°	2066.0	536.6	127.3	94.5	81.9	78.2	82.9	88.7	96.1	105.6	106.7
52.5°	2026.4	494.3	110.4	79.2	67.6	68.7	73.4	75.5	79.7	83.4	82.4
55°	*2003.7*	*471.1*	*96.6*	*68.7*	*57.6*	*60.7*	*61.8*	*59.1*	*57.0*	*53.3*	*51.8*
57.5°	2001.0	450.0	86.1	59.7	50.7	52.3	48.6	39.6	32.2	28.0	26.9
60°	1996.8	424.1	77.6	50.2	44.9	42.8	34.9	21.7	15.3	14.3	14.3
62.5°	1950.9	383.9	71.3	42.2	38.0	32.2	20.1	10.0	8.4	9.0	9.0
65°	1804.6	328.0	65.0	34.3	30.1	23.2	10.0	5.8	3.2	3.7	3.7
67.5°	1534.2	261.4	58.1	26.4	22.7	14.8	5.8	2.6	0.0	0.0	0.0
70°	1027.2	162.1	49.1	18.5	14.8	9.0	4.2	0.5	0.0	0.0	0.0
72.5°	394.0	87.7	39.6	11.1	9.5	6.3	2.6	0.0	0.0	0.0	0.0
75°	88.7	57.6	27.5	7.9	6.9	4.2	1.1	0.0	0.0	0.0	0.0
77.5°	33.8	41.7	15.8	5.3	4.8	2.6	0.0	0.0	0.0	0.0	0.0
80°	16.4	24.8	7.4	3.2	2.6	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	9.5	3.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	4.8	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.6	0.5	0.5	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

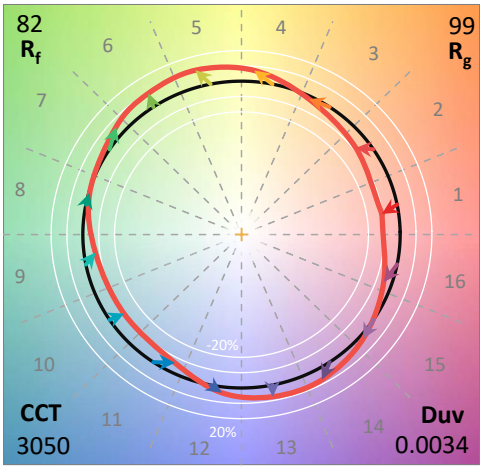
Test Information

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

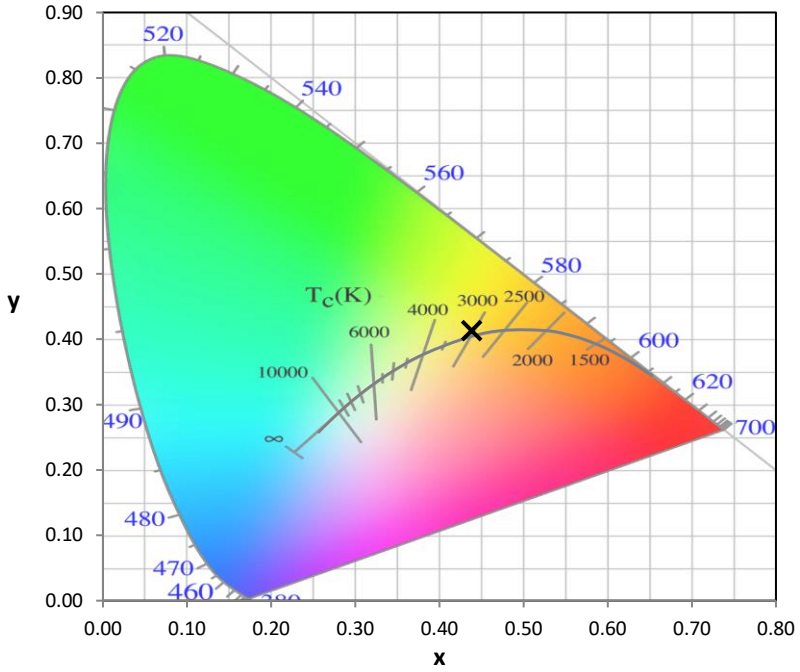
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

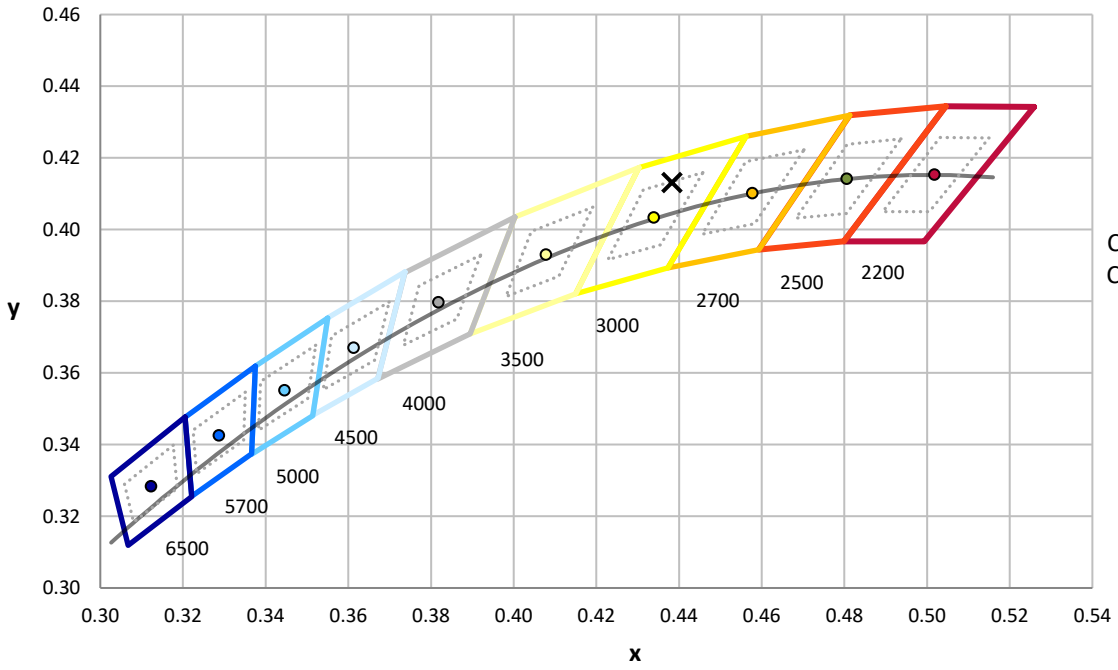
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

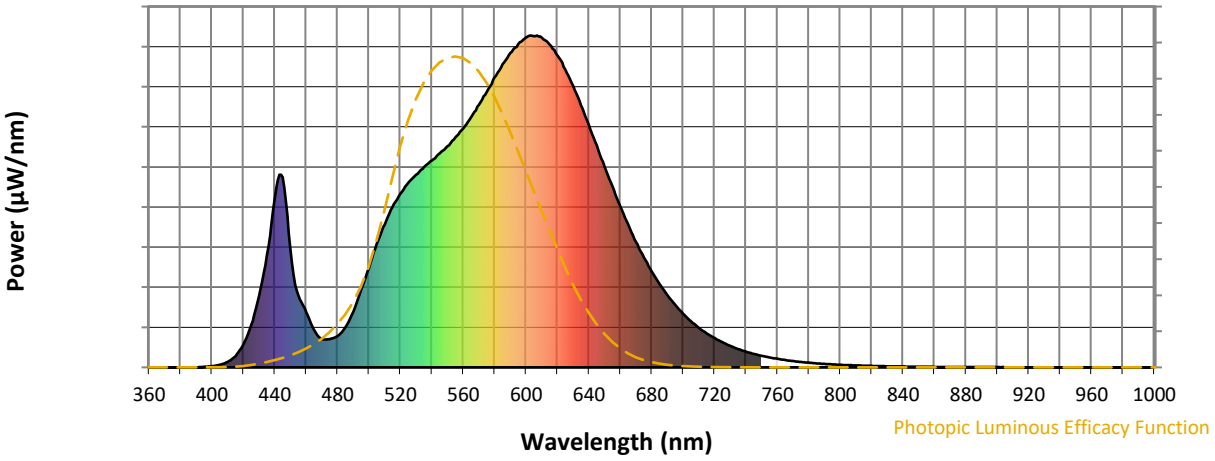


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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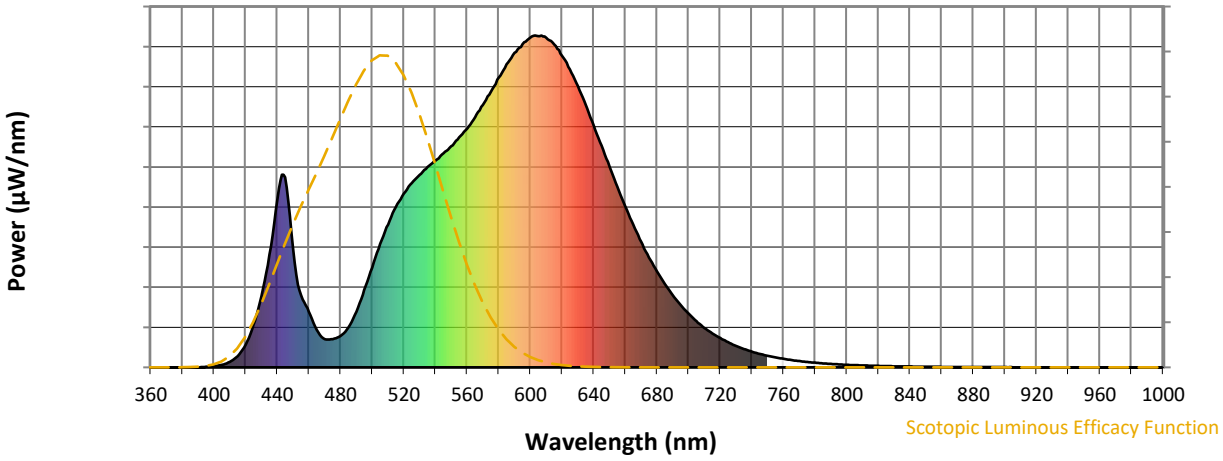
Scotopic Flux vs. Wavelength



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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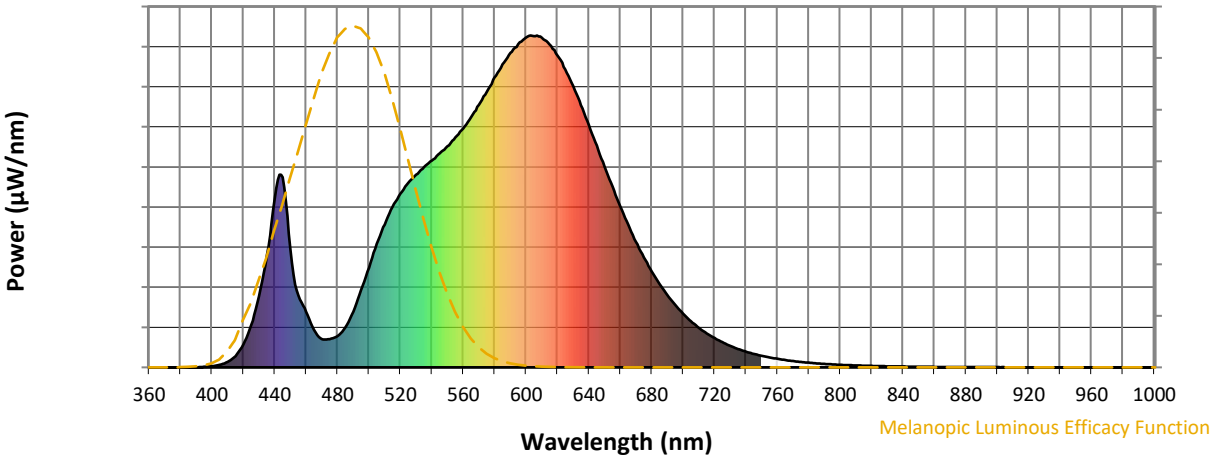
Melanopic Flux vs. Wavelength



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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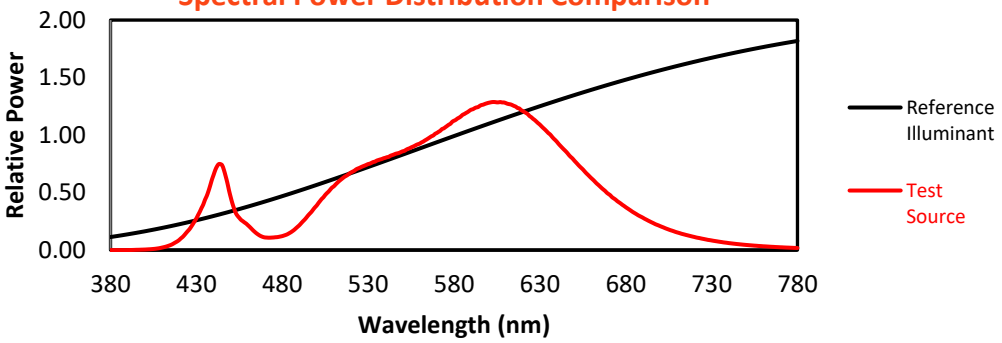
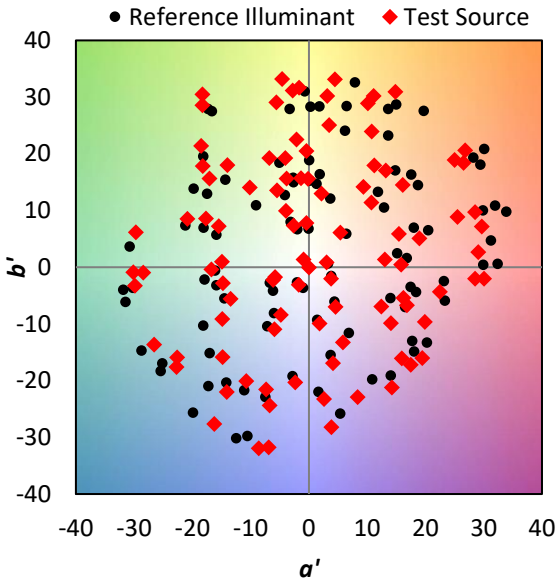
Summary

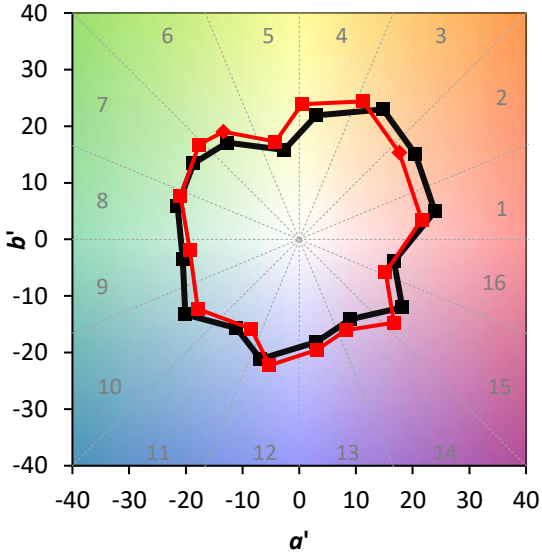
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

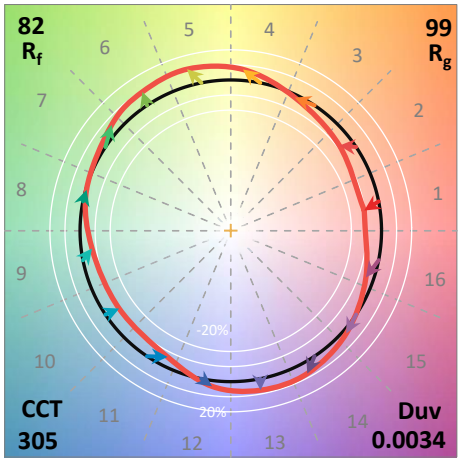
Spectral Power Distribution Comparison

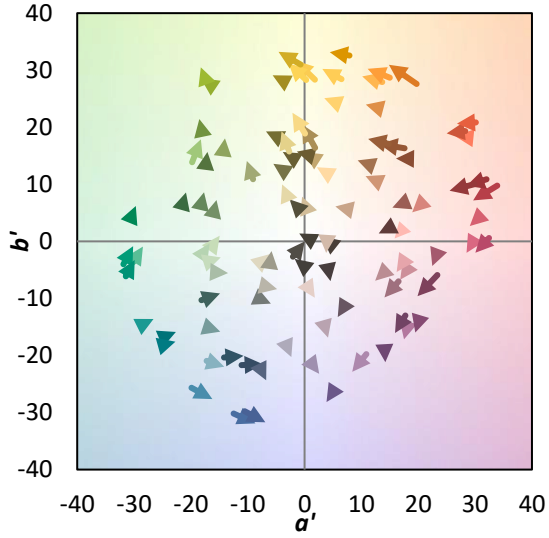


Color Vector Graphics









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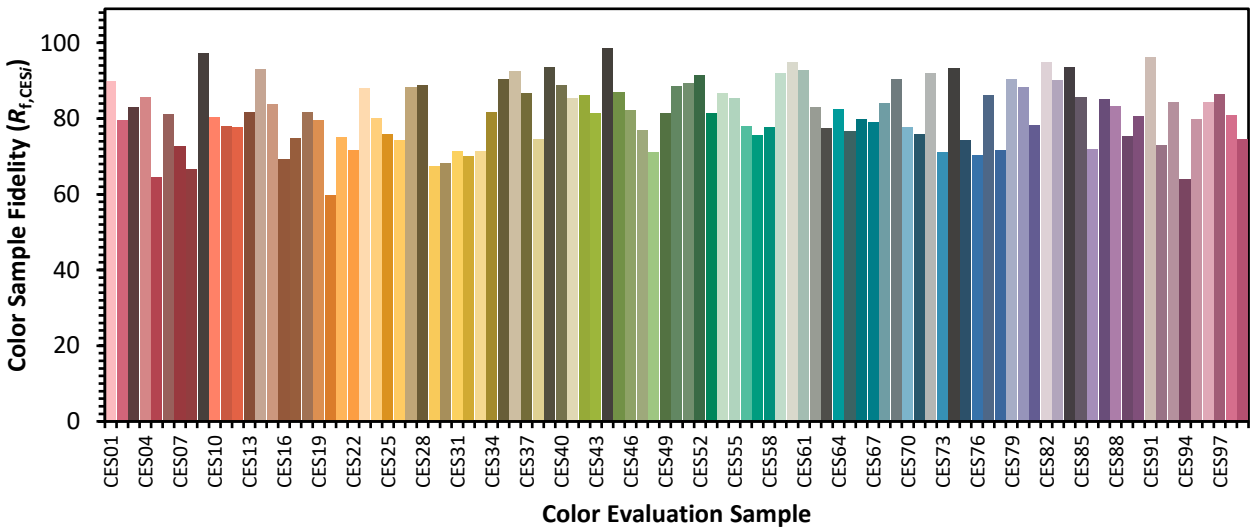
Individual Sample Fidelity Index ($R_{f,i}$)

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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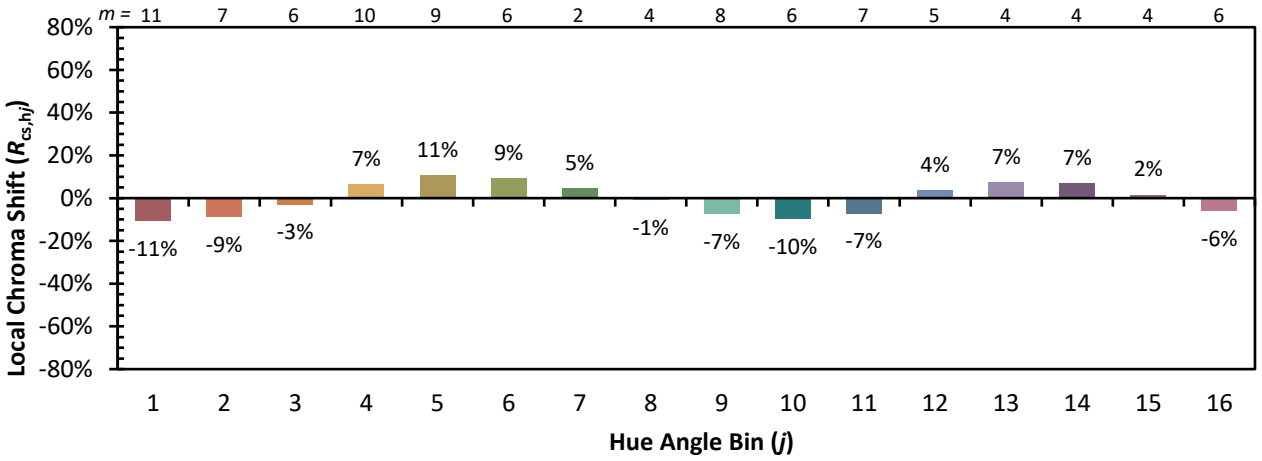
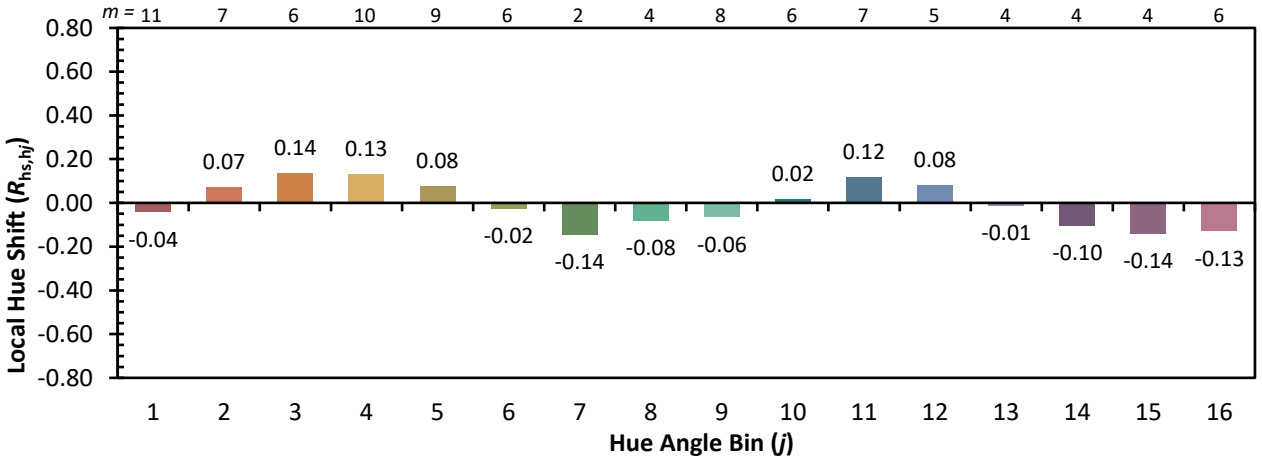
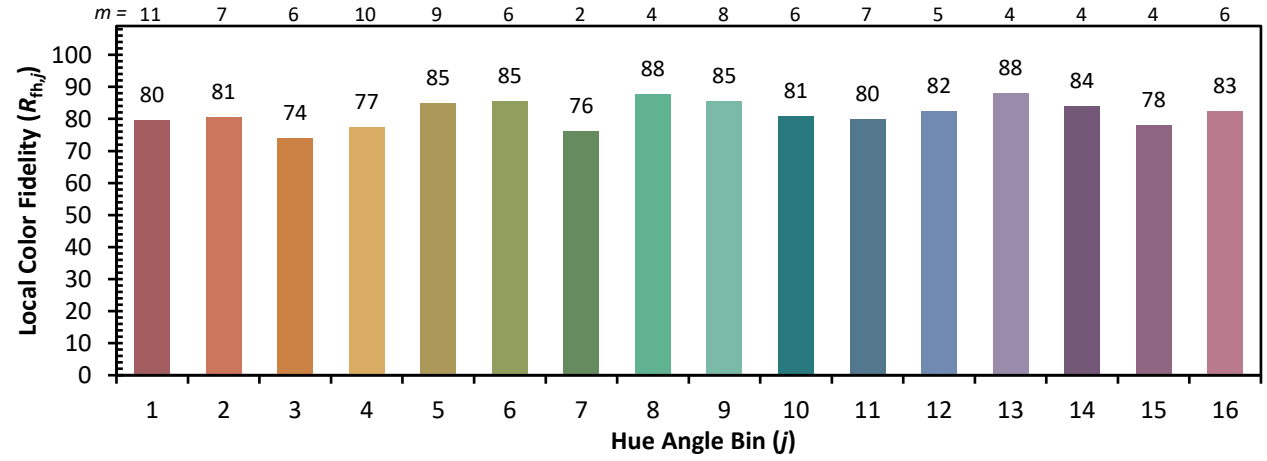
Color Rendition by Hue-Angle Bin







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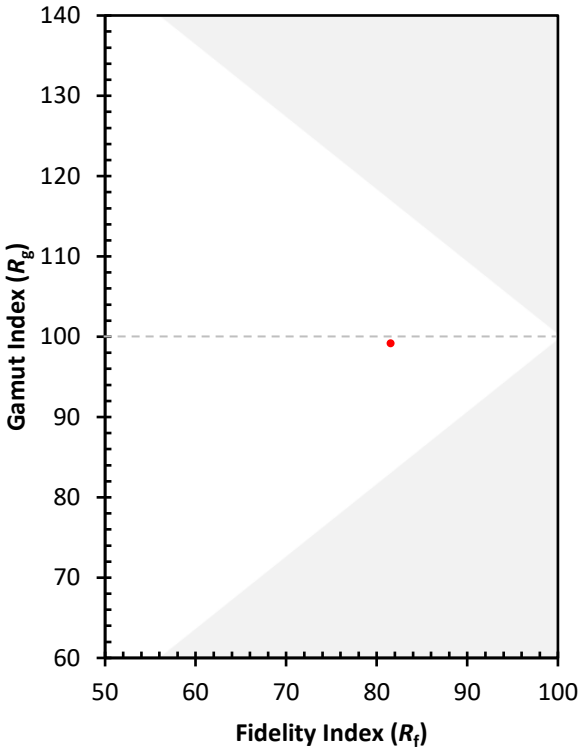
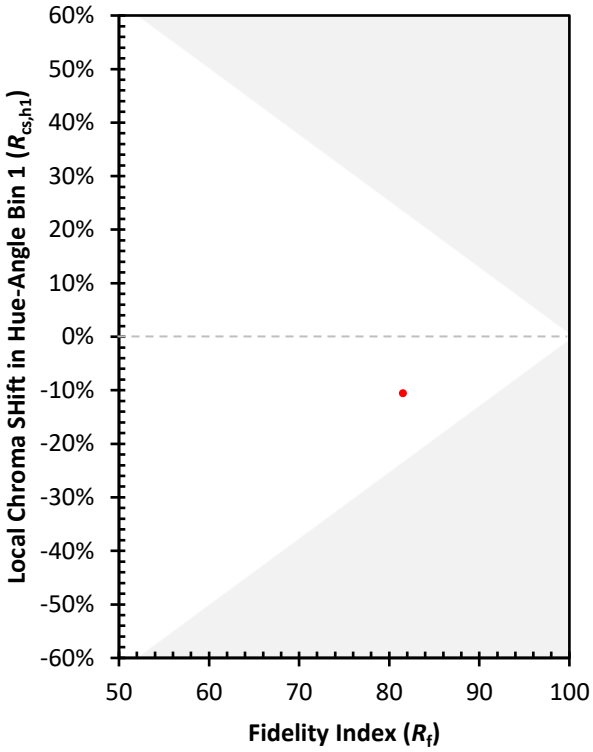
Measure Comparisons





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