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: P319194

Luminaire Tested: **GLEON-SA0A-830-U-T4W**

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:	P319194
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0A-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36399 lumens
Efficiency:	N/A
Efficacy:	112.7 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	323
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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REPORT NUMBER: P319194
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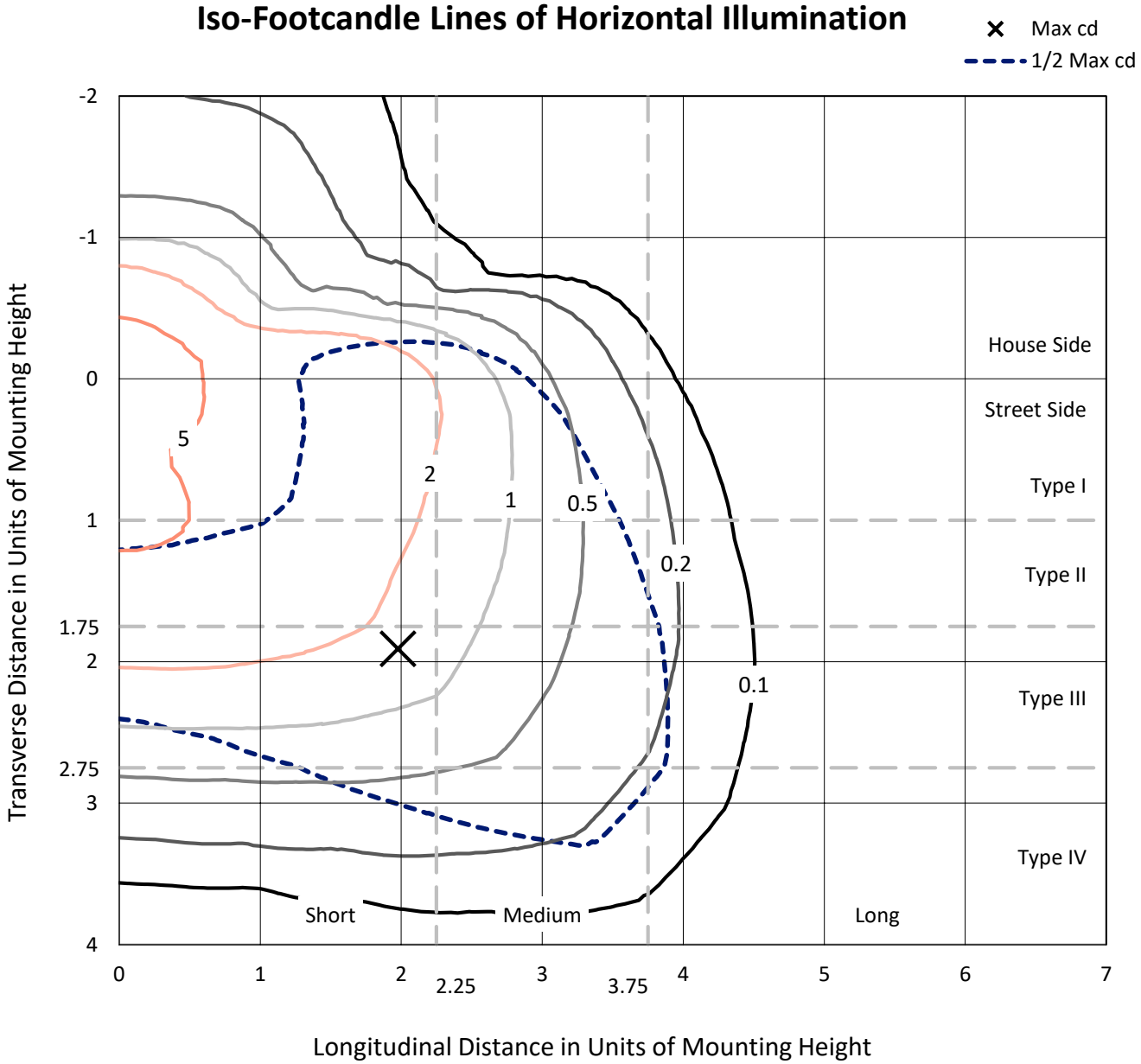
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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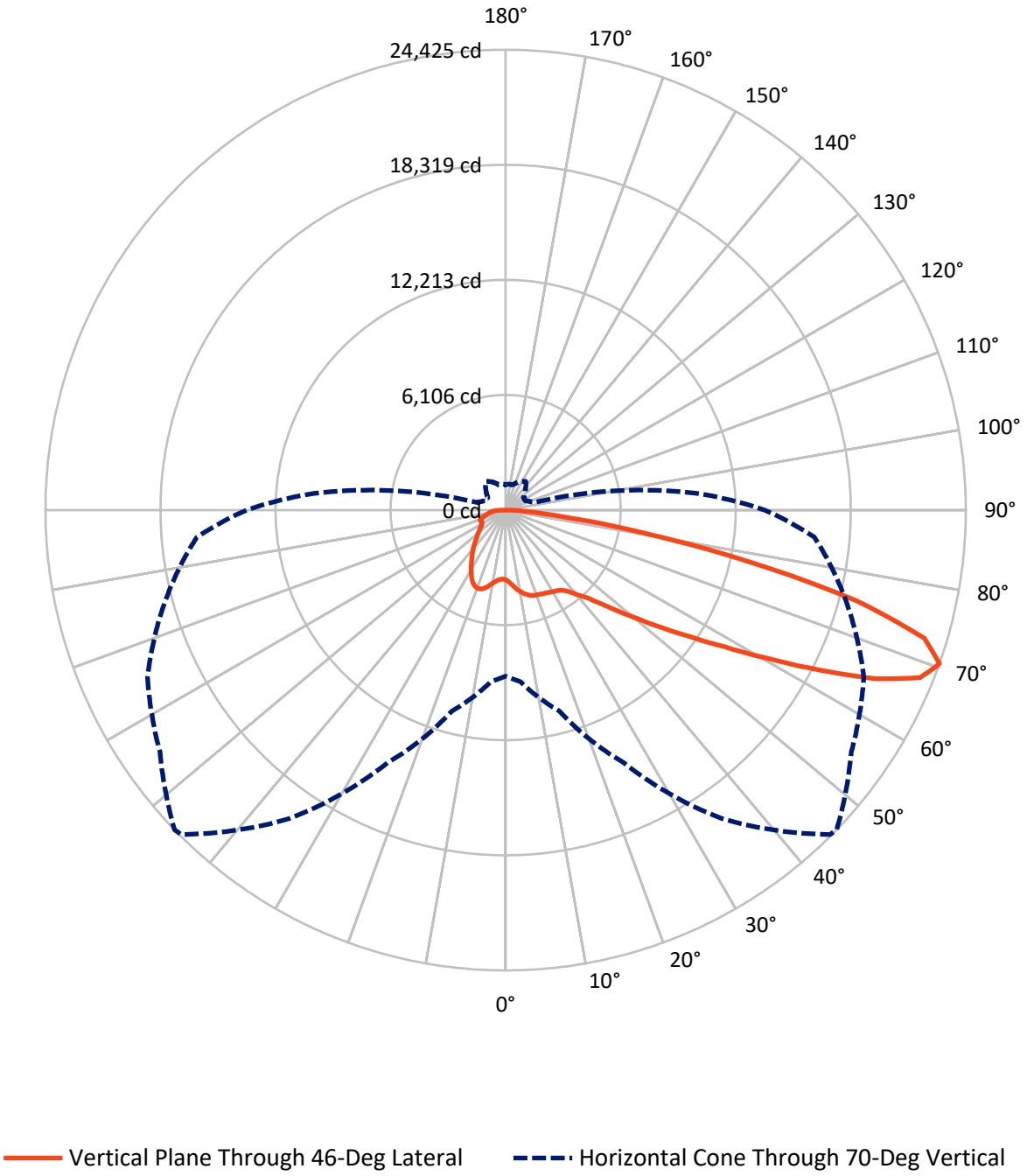
Luminous Intensity Polar Plot



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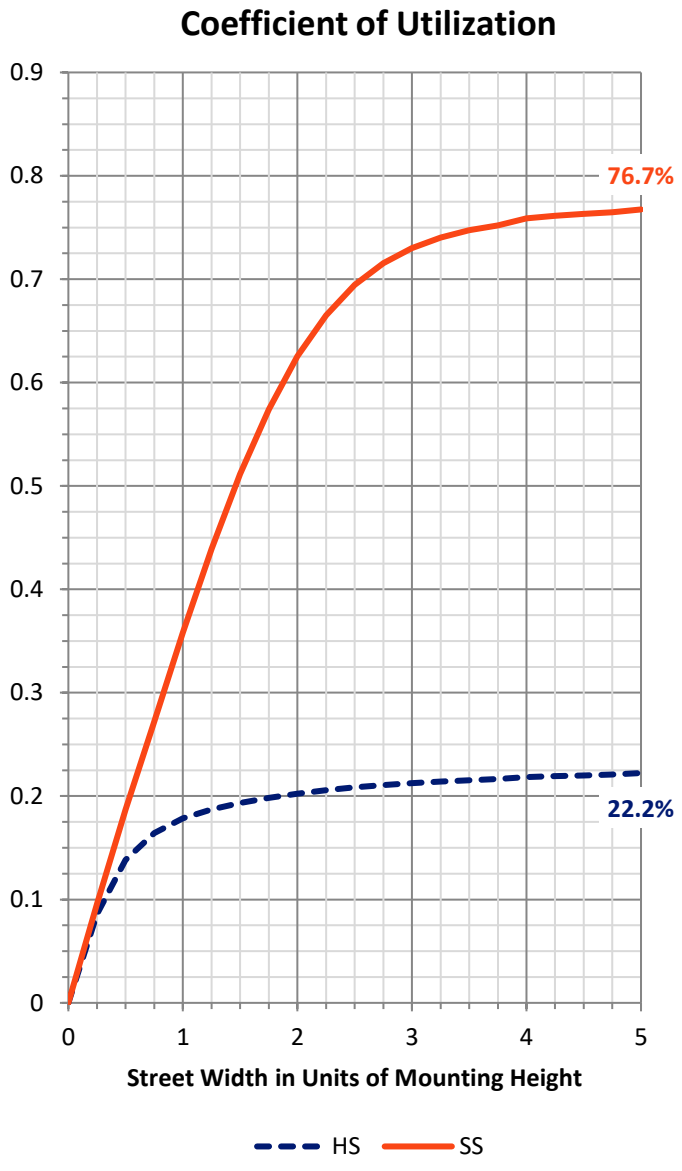
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8342.5	0.0	8342.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28056.5	0.0	28056.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	36399.0	0.0	36399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	1.0
10°-20°	1259.5	3.5
20°-30°	2100.1	5.8
30°-40°	2980.1	8.2
40°-50°	4383.6	12.0
50°-60°	7423.7	20.4
60°-70°	10537.8	29.0
70°-80°	6401.8	17.6
80°-90°	934.3	2.6
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°	36399.0	100.0
0°-180°	36399.0	100.0



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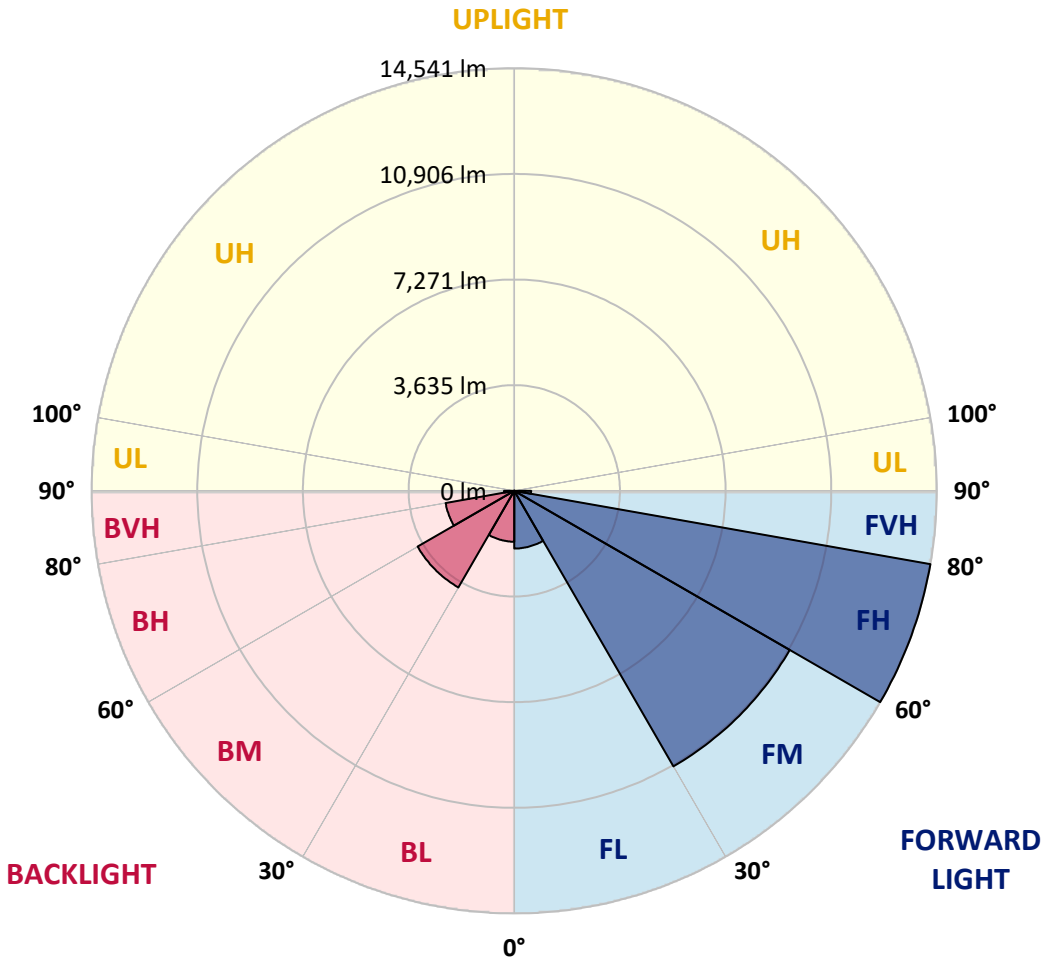
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1986.1	5.5			
FM	(30°-60°)	10947.2	30.1			
FH	(60°-80°)	14541.2	39.9			G5
FVH	(80°-90°)	582.0	1.6			G4/750
BL	(0°-30°)	1751.5	4.8	B3/2500		
BM	(30°-60°)	3840.3	10.6	B3/5000		
BH	(60°-80°)	2398.4	6.6	B3/2500		G3/2500
BVH	(80°-90°)	352.3	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3	*3708.3*	3708.3	3708.3	3708.3	3708.3
2.5°	3893.9	3896.4	3901.4	3889.0	3854.1	3844.1	*3840.4*	3804.3	3780.6	3745.7	3715.8
5°	4205.4	4207.9	4200.4	4165.5	4088.3	4031.0	*4026.0*	3943.8	3869.0	3789.3	3729.5
7.5°	4530.5	4534.2	4510.6	4444.5	4336.2	4236.5	*4230.3*	4118.2	4004.8	3884.0	3794.3
10°	4818.2	4803.3	4764.7	4672.5	4544.2	4422.1	*4417.1*	4300.0	4169.2	4023.5	3903.9
12.5°	5010.1	4997.6	4947.8	4835.7	4694.9	4582.8	*4572.8*	4464.5	4337.4	4178.0	4034.7
15°	5115.9	5124.7	5057.4	4930.3	4793.3	4698.6	*4689.9*	4612.7	4499.3	4338.7	4174.2
17.5°	5129.6	5137.1	5072.3	4946.5	4834.4	4769.7	*4765.9*	4714.8	4632.6	4478.2	4306.3
20°	5049.9	5054.9	5001.3	4898.0	4824.5	4804.5	*4803.3*	4780.9	4719.8	4582.8	4415.9
22.5°	4934.1	4937.8	4899.2	4824.5	4799.5	4830.7	*4839.4*	4830.7	4787.1	4658.8	4501.8
25°	4905.4	4902.9	4863.1	4787.1	4808.3	4874.3	*4885.5*	4889.2	4859.3	4747.2	4611.5
27.5°	5043.7	5035.0	4959.0	4836.9	4850.6	4930.3	*4945.3*	4981.4	4962.7	4864.3	4736.0
30°	5443.6	5428.6	5272.9	5026.3	4959.0	5000.1	*5018.8*	5076.1	5079.8	4997.6	4901.7
32.5°	6118.7	6100.0	5821.0	5380.0	5142.1	5071.1	*5088.5*	5174.5	5220.6	5157.1	5053.7
35°	6972.0	6950.8	6584.6	5981.7	5448.5	5206.9	*5219.3*	5287.8	5380.0	5290.3	5153.3
37.5°	7861.4	7810.3	7457.8	6689.2	5935.6	5497.1	*5497.1*	5505.8	5549.4	5362.6	5270.4
40°	8745.8	8694.7	8375.9	7521.3	6565.9	5954.3	*5925.6*	5732.6	5697.7	5537.0	5505.8
42.5°	9568.0	9553.0	9364.9	8461.8	7305.8	6404.0	*6364.1*	6036.5	6044.0	5944.3	5945.6
45°	10442.4	10442.4	10289.2	9411.0	8167.8	7126.5	*7086.6*	6604.5	6679.3	6633.2	6744.0
47.5°	11156.2	11178.6	11157.4	10400.1	9170.6	8044.5	*7972.3*	7391.8	7601.0	7759.2	8081.9
50°	11884.9	11919.8	11923.5	11485.0	10382.6	9135.7	*9053.5*	8436.9	8904.0	9357.4	9991.5
52.5°	12942.5	13020.9	12708.3	12567.5	11867.5	10431.2	*10350.2*	9781.0	10560.8	11197.3	12289.7
55°	13922.8	13854.3	13631.3	13718.5	13456.9	11906.1	*11845.0*	11345.5	12406.8	13233.9	14652.8
57.5°	14453.5	14448.5	14672.7	15046.4	15171.0	13724.7	*13673.7*	13187.9	14488.3	15109.9	16871.3
60°	15076.3	15085.0	15640.6	16488.9	17002.1	15989.4	*15966.9*	15598.2	16510.0	16861.3	18611.5
62.5°	15163.5	15320.4	16277.1	17737.0	18716.1	18635.2	*18685.0*	17769.4	18318.8	18259.0	19910.7
65°	14160.7	14367.5	16099.0	18114.5	20420.2	21528.8	*21574.9*	19953.1	19745.0	19453.6	20375.3
67.5°	12105.4	12411.8	14292.8	17293.6	20982.0	23667.6	*23732.4*	21645.9	20928.4	19858.4	19256.7
70°	*8809.3*	*9149.4*	*11042.8*	*14769.9*	*19980.5*	*24351.5*	*24425.0*	*22394.6*	*20973.3*	*18706.2*	*16439.0*
72.5°	5321.5	5588.1	7148.9	10873.4	16863.8	23105.8	*23236.6*	21445.4	19148.4	15844.9	12139.0
75°	2336.9	2511.3	3456.7	6265.7	12073.0	19117.2	*19280.4*	18356.1	15558.4	11514.9	7175.0
77.5°	995.3	1045.1	1417.6	2721.8	6825.0	13063.3	*13287.5*	13412.1	10555.8	6265.7	3031.9
80°	620.3	640.3	802.2	1232.0	3193.9	7337.0	*7578.6*	7891.3	5241.8	2303.2	1058.8
82.5°	377.4	399.9	533.1	744.9	1663.0	3325.9	*3441.8*	3662.3	2034.2	995.3	548.1
85°	226.7	242.9	326.4	470.9	946.7	1307.9	*1306.7*	1445.0	957.9	640.3	289.0
87.5°	108.4	120.8	174.4	244.2	477.1	490.8	*459.7*	520.7	581.7	419.8	145.7
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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REPORT NUMBER: P319194
CATALOG NUMBER: GLEON-SA0A-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3	3708.3
2.5°	3705.9	3700.9	3684.7	3672.2	3669.7	3662.3	3656.0	3659.8	3664.7	3666.0	3666.0
5°	3704.6	3690.9	3669.7	3661.0	3672.2	3687.2	3705.9	3730.8	3745.7	3756.9	3764.4
7.5°	3764.4	3738.2	3714.6	3709.6	3732.0	3771.9	3814.2	3866.5	3902.7	3927.6	3932.6
10°	3864.1	3831.7	3808.0	3813.0	3852.8	3910.1	3969.9	4037.2	4092.0	4125.6	4128.1
12.5°	3978.7	3947.5	3925.1	3946.3	4012.3	4082.0	4144.3	4202.9	4252.7	4286.3	4286.3
15°	4110.7	4088.3	4062.1	4110.7	4200.4	4262.7	4288.8	4317.5	4344.9	4369.8	4364.8
17.5°	4237.8	4216.6	4202.9	4260.2	4353.6	4382.3	4364.8	4343.6	4343.6	4357.3	4359.8
20°	4347.4	4328.7	4337.4	4393.5	4442.0	4412.1	4347.4	4280.1	4252.7	4260.2	4267.6
22.5°	4443.3	4434.6	4460.7	4486.9	4452.0	4347.4	4227.8	4136.9	4103.2	4100.7	4103.2
25°	4555.4	4554.2	4586.5	4539.2	4384.7	4191.7	4031.0	3942.5	3923.8	3938.8	3963.7
27.5°	4694.9	4708.6	4724.8	4551.7	4247.7	3956.2	3793.1	3732.0	3750.7	3786.8	3810.5
30°	4873.0	4910.4	4875.5	4520.5	4050.9	3687.2	3531.5	3514.0	3565.1	3616.2	3641.1
32.5°	5046.2	5104.7	5020.0	4439.6	3796.8	3401.9	3281.1	3276.1	3338.4	3388.2	3423.1
35°	5185.7	5301.6	5128.4	4278.9	3502.8	3139.1	3050.6	3017.0	3039.4	3098.0	3137.8
37.5°	5367.6	5560.6	5203.1	4033.5	3183.9	2922.3	2818.9	2741.7	2721.8	2745.4	2765.4
40°	5700.2	5955.5	5238.0	3690.9	2872.5	2705.6	2600.9	2487.6	2409.1	2351.8	2353.1
42.5°	6243.3	6470.0	5215.6	3274.9	2584.8	2493.8	2375.5	2244.7	2117.6	1988.1	1978.1
45°	7125.2	7234.8	5148.3	2833.9	2331.9	2272.1	2161.2	2030.4	1861.0	1714.0	1700.3
47.5°	8536.5	8293.6	5043.7	2449.0	2108.9	2084.0	1981.9	1831.1	1651.8	1533.4	1523.4
50°	10461.1	9822.1	4992.6	2142.5	1912.1	1919.6	1836.1	1676.7	1507.3	1420.1	1410.1
52.5°	12763.1	11602.1	5091.0	1905.9	1753.9	1780.1	1717.8	1568.3	1426.3	1357.8	1347.8
55°	15151.0	13445.7	5196.9	1734.0	1604.4	1655.5	1634.3	1511.0	1382.7	1319.2	1310.4
57.5°	17195.2	14822.2	4985.2	1594.5	1471.1	1550.9	1569.5	1474.9	1360.3	1303.0	1293.0
60°	18481.9	15376.5	4429.6	1463.7	1365.2	1467.4	1532.2	1464.9	1369.0	1364.0	1356.5
62.5°	19092.3	15327.9	3596.2	1360.3	1299.2	1431.3	1559.6	1521.0	1468.6	1513.5	1517.2
65°	18818.3	14595.5	2678.2	1291.8	1251.9	1445.0	1641.8	1626.8	1497.3	1542.1	1548.4
67.5°	17014.5	12847.8	1983.1	1232.0	1199.6	1483.6	1791.3	1661.7	1441.2	1473.6	1453.7
70°	*13752.1*	*10185.8*	*1529.7*	*1164.7*	*1146.0*	*1478.6*	*1858.5*	*1640.5*	*1380.2*	*1387.7*	*1334.1*
72.5°	9483.3	6945.8	1244.4	1102.4	1068.8	1347.8	1811.2	1588.2	1329.1	1271.8	1200.8
75°	5157.1	3728.3	1057.6	1037.6	933.0	1183.4	1724.0	1550.9	1283.0	1207.0	1167.2
77.5°	2029.2	1547.1	918.1	949.2	815.9	1045.1	1626.8	1479.9	1219.5	1119.9	1099.9
80°	828.4	789.8	761.1	820.9	701.3	914.3	1509.7	1396.4	1143.5	1038.9	999.0
82.5°	469.6	490.8	591.7	647.7	569.3	842.1	1453.7	1329.1	1052.6	930.5	883.2
85°	240.4	287.7	412.3	464.6	418.5	716.3	1339.1	1163.5	844.6	712.5	716.3
87.5°	115.8	160.7	260.3	291.5	271.6	518.2	1000.3	843.3	657.7	520.7	504.5
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

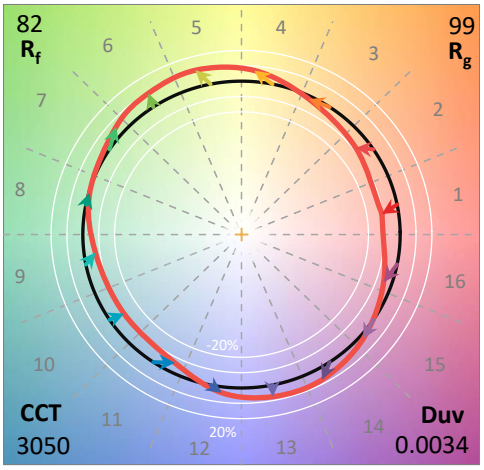
Test Information

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

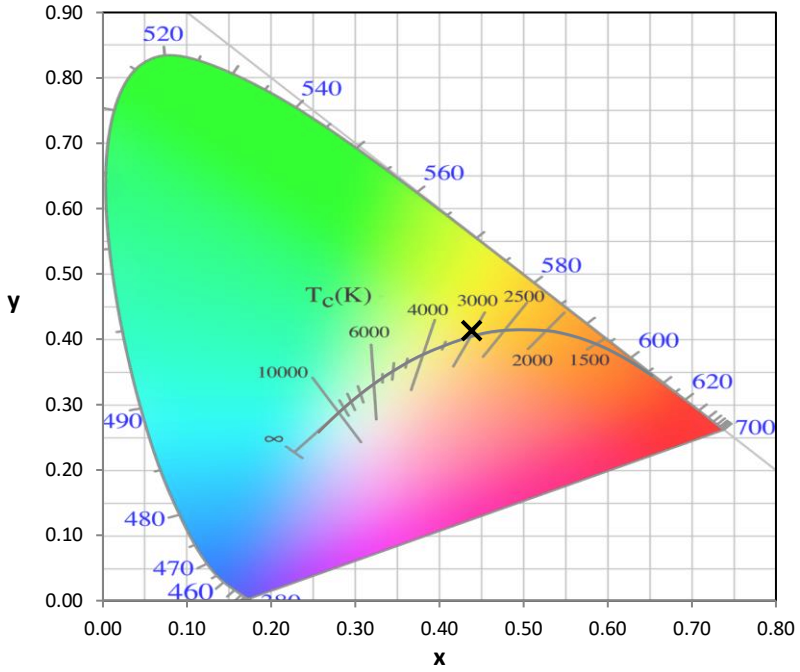
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

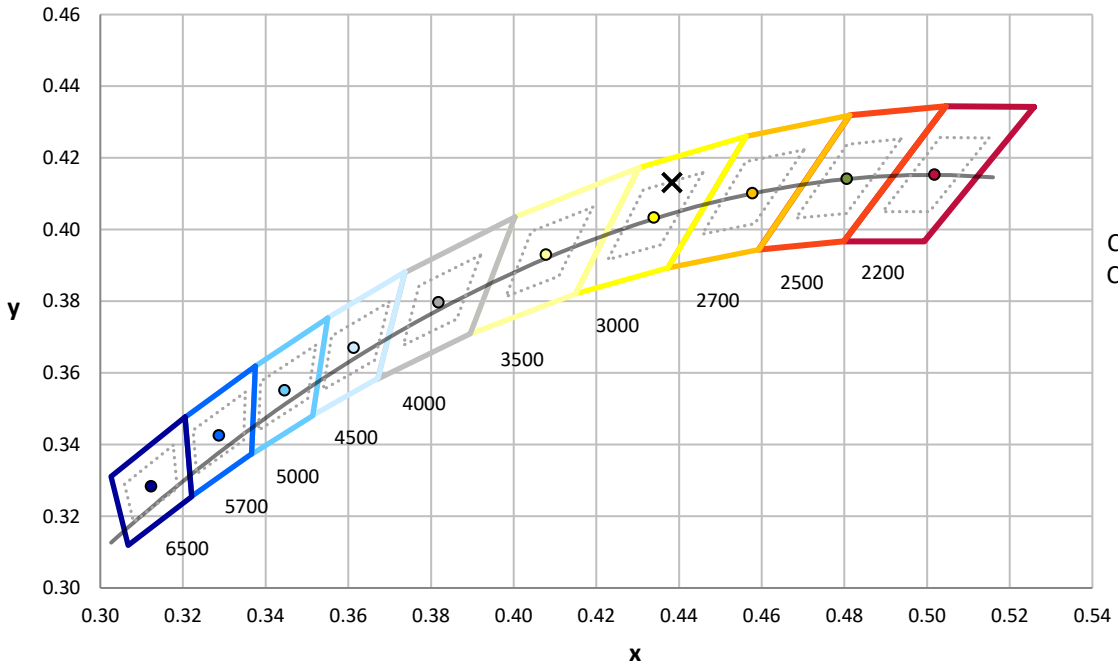
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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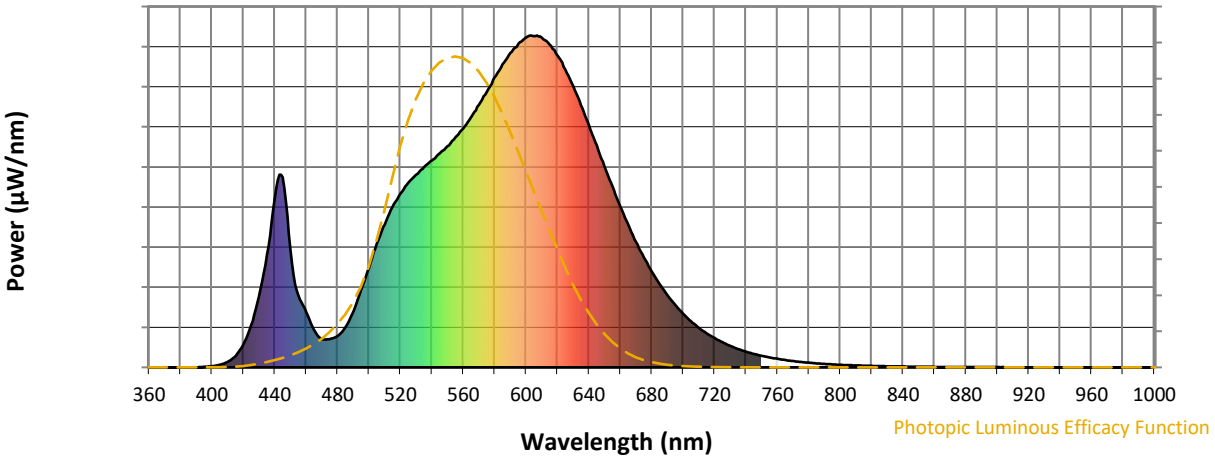
Photopic Flux vs. Wavelength



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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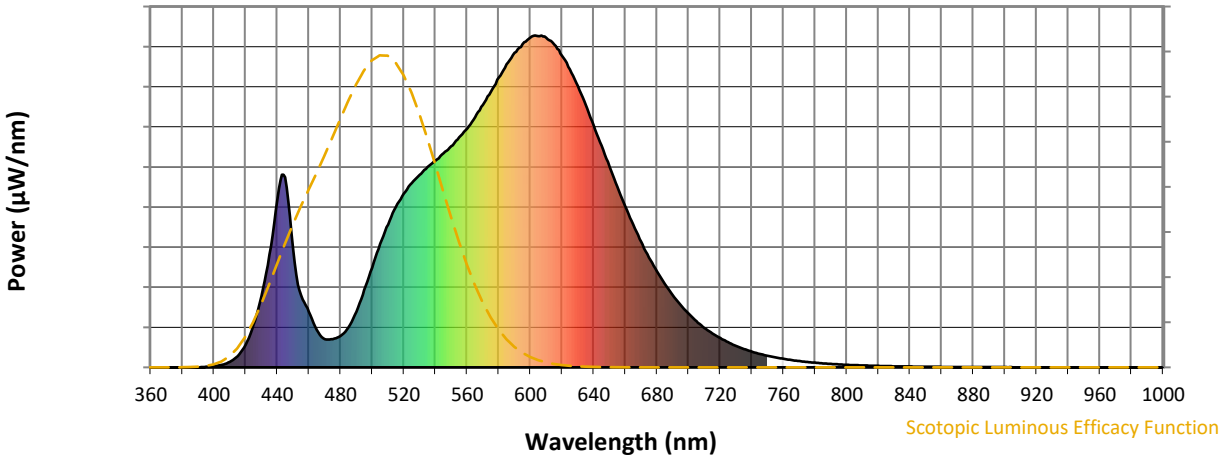
Scotopic Flux vs. Wavelength



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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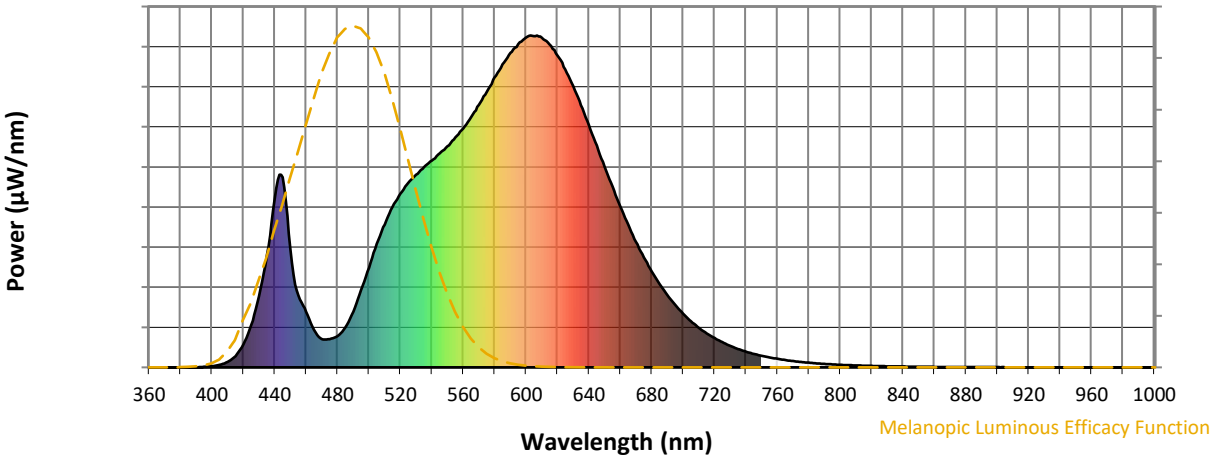
Melanopic Flux vs. Wavelength



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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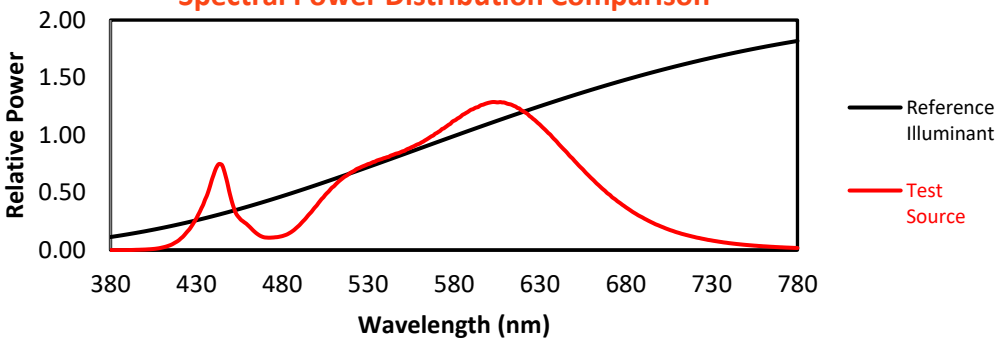
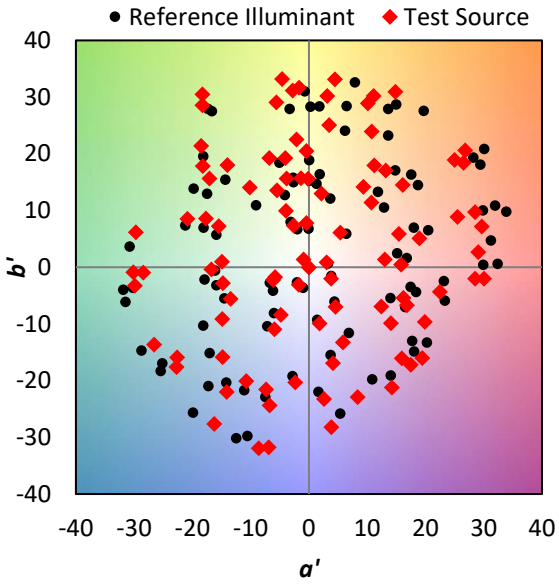
Summary

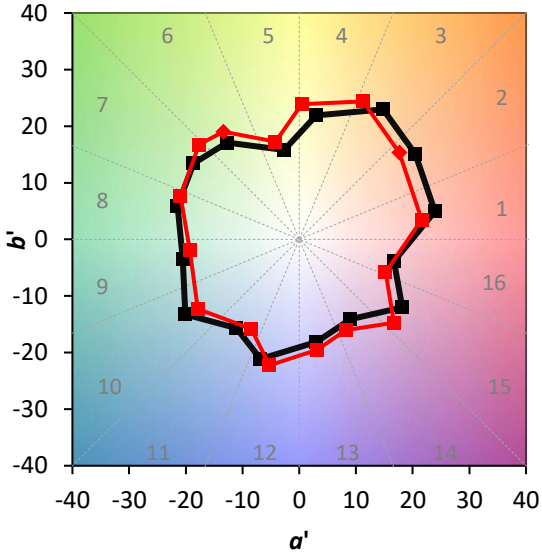
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

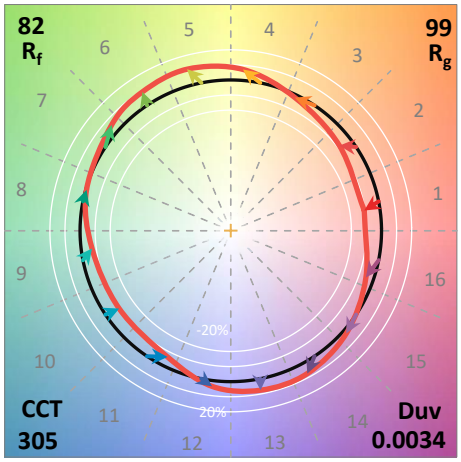
Spectral Power Distribution Comparison

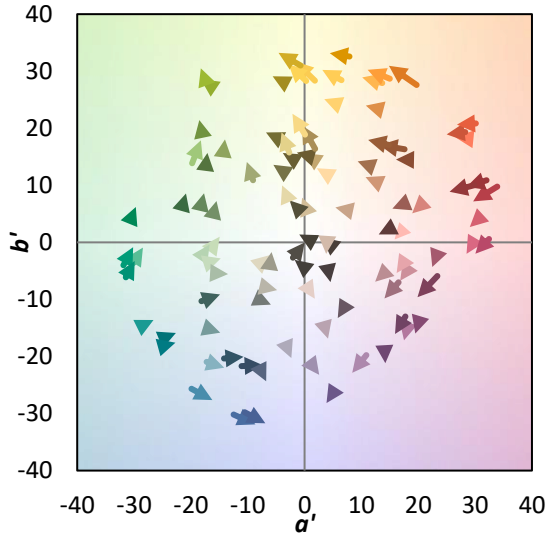


Color Vector Graphics









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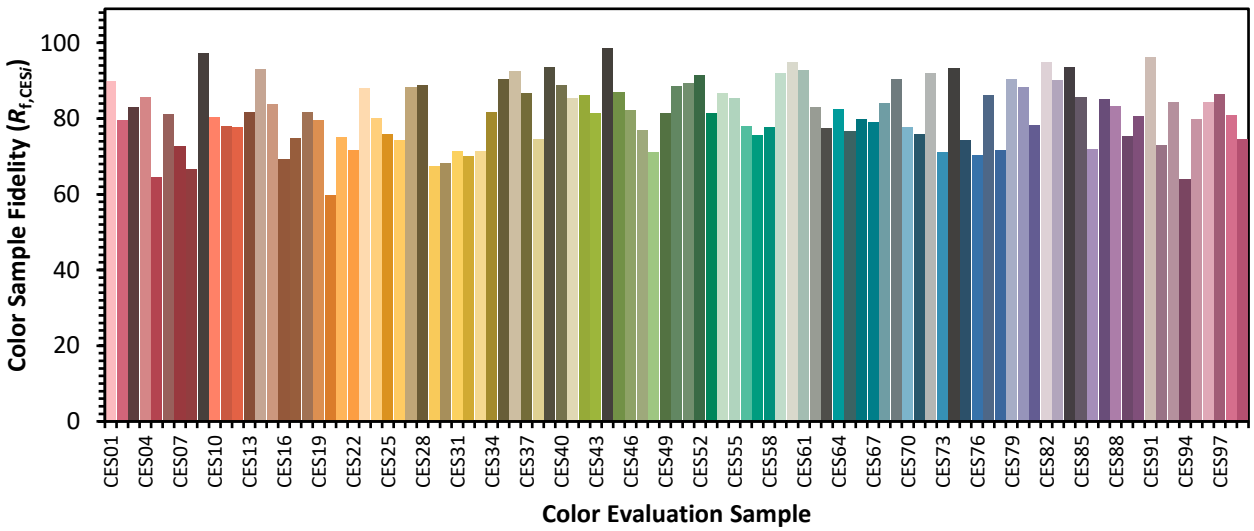
Individual Sample Fidelity Index ($R_{f,i}$)

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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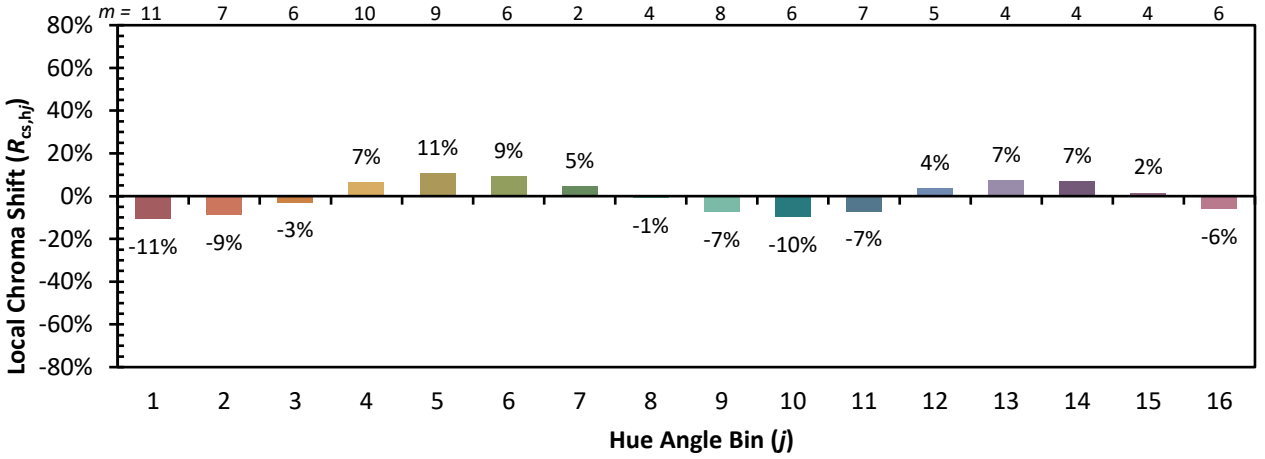
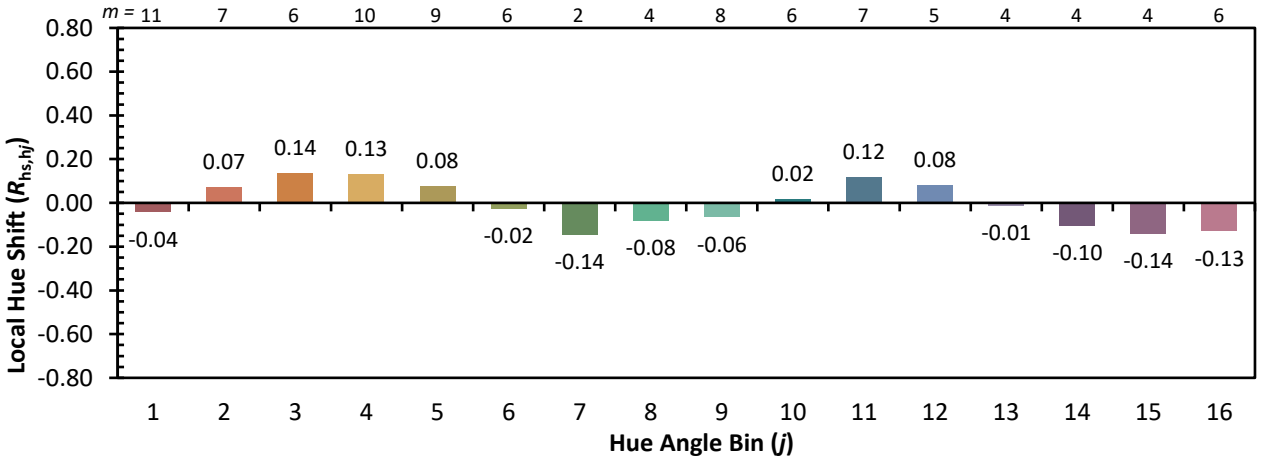
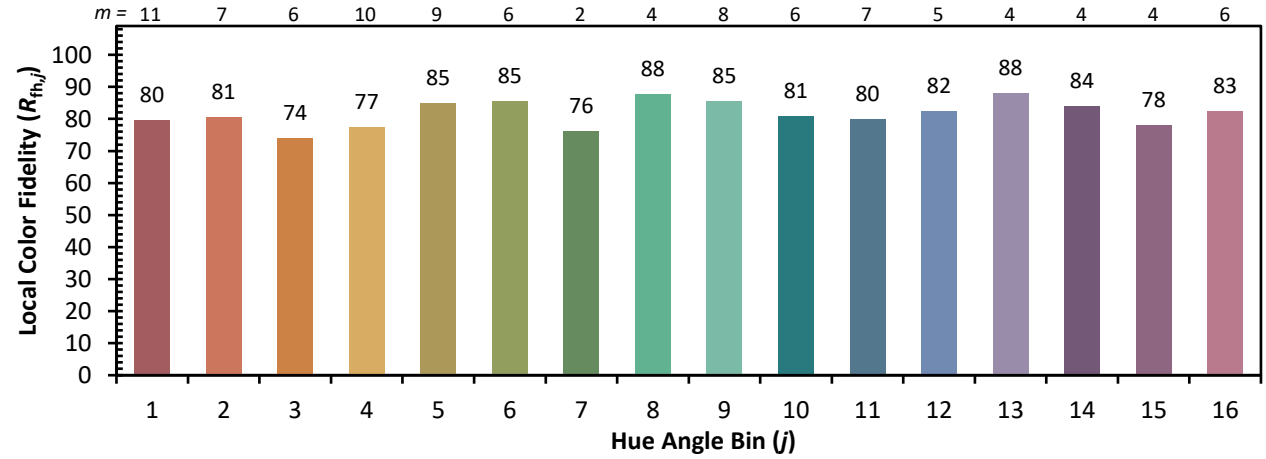
Color Rendition by Hue-Angle Bin







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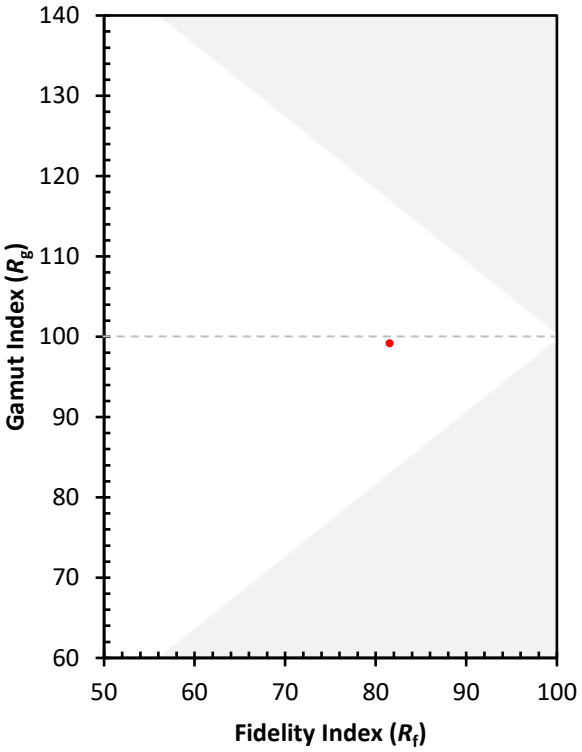
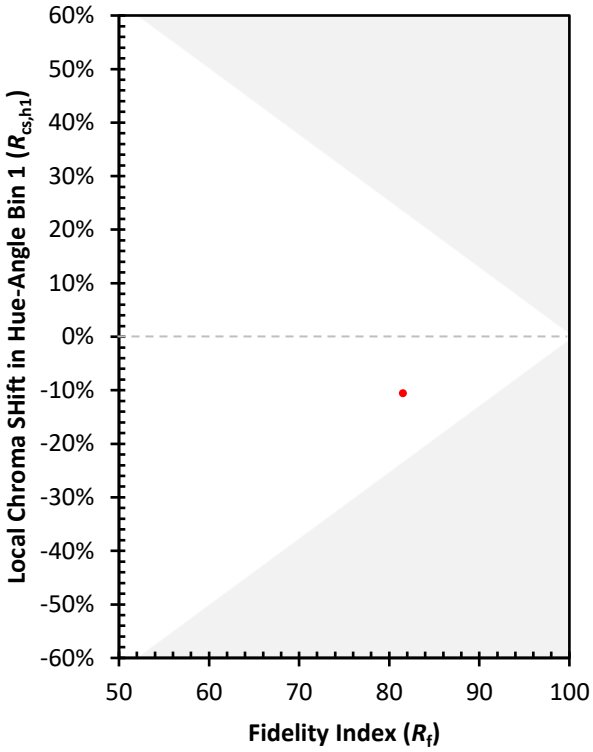
Measure Comparisons





(END OF REPORT)