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: P323991

Luminaire Tested: **GLEON-SA7A-830-U-SL4-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:	P323991
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7A-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21259 lumens
Efficiency:	N/A
Efficacy:	94.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	226
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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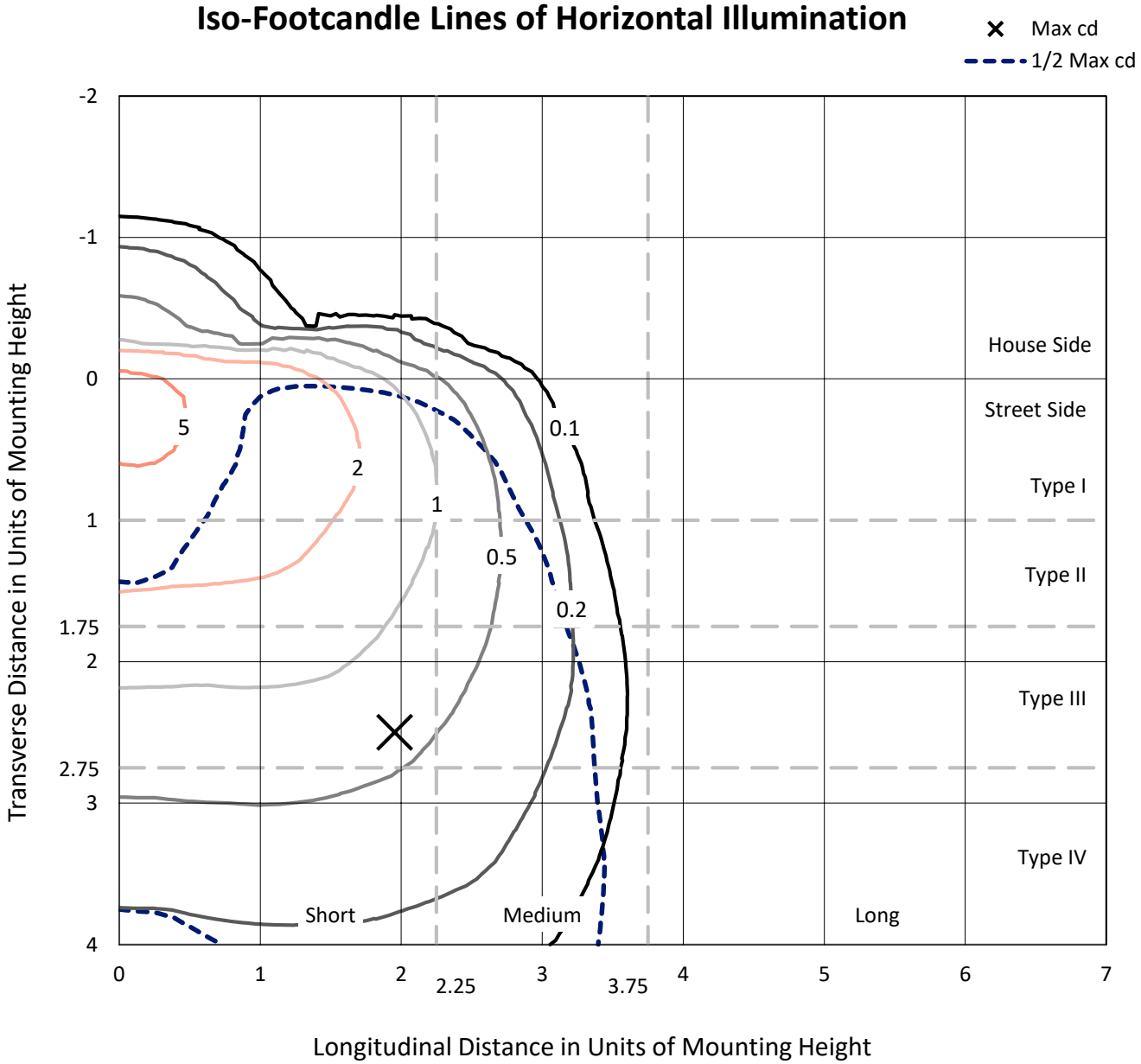
Scaled Data Report

REPORT NUMBER: P323991
CATALOG NUMBER: GLEON-SA7A-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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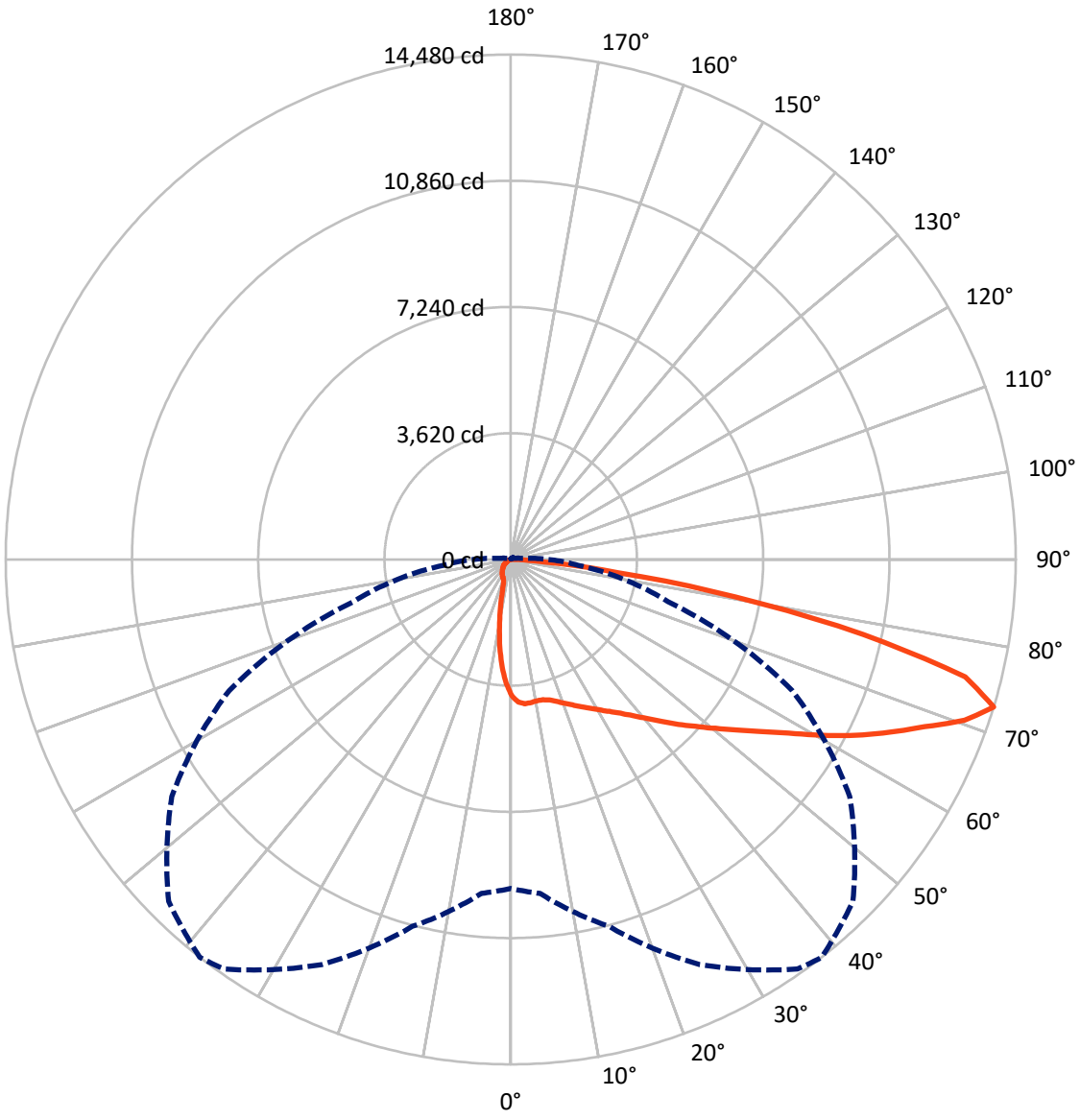
Luminous Intensity Polar Plot



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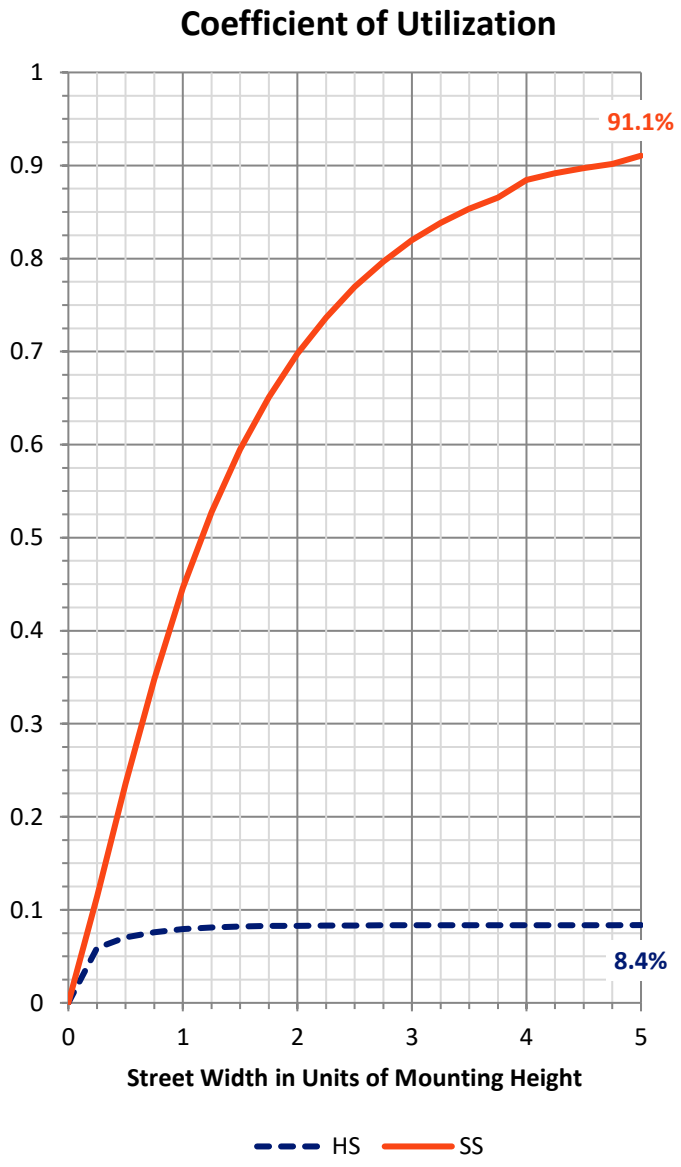
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1789.0	0.0	1789.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19470.0	0.0	19470.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	21259.0	0.0	21259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	1.6
10°-20°	814.7	3.8
20°-30°	1295.7	6.1
30°-40°	1947.9	9.2
40°-50°	2971.7	14.0
50°-60°	4200.0	19.8
60°-70°	5268.2	24.8
70°-80°	3939.2	18.5
80°-90°	488.4	2.3
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°	21259.0	100.0
0°-180°	21259.0	100.0



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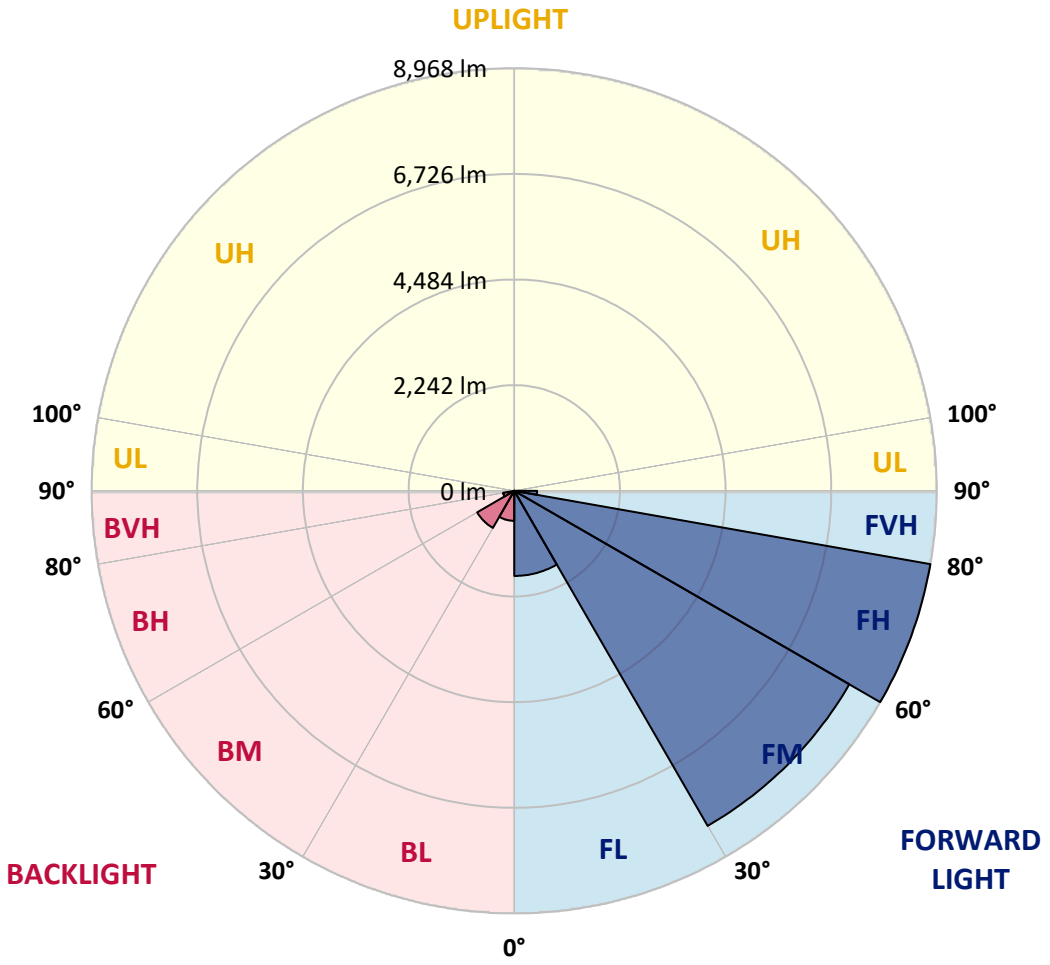
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1806.5	8.5			
FM	(30°-60°)	8211.2	38.6			
FH	(60°-80°)	8968.4	42.2			G4/12000
FVH	(80°-90°)	483.9	2.3			G3/500
BL	(0°-30°)	637.0	3.0	B2/1000		
BM	(30°-60°)	908.5	4.3	B1/1000		
BH	(60°-80°)	239.0	1.1	B1/500		G1/500
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type IV Short



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REPORT NUMBER: P323991
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	4149.6	4150.5	4140.8	4124.9	4104.6	4094.0	4076.3	4048.1	4018.1	3964.2	3905.9
5°	4234.4	4234.4	4222.0	4200.8	4168.1	4158.4	4124.9	4079.9	4018.1	3930.6	3832.6
7.5°	4225.5	4227.3	4210.5	4188.5	4155.8	4147.0	4106.3	4056.0	3979.2	3873.3	3747.9
10°	4179.6	4184.0	4170.8	4160.2	4130.2	4120.5	4082.5	4032.2	3955.4	3842.4	3698.4
12.5°	4132.8	4137.2	4141.7	4151.4	4132.8	4129.3	4099.3	4056.9	3983.6	3866.2	3703.7
15°	4102.8	4111.6	4143.4	4181.4	4185.8	4182.3	4162.9	4123.1	4049.0	3927.1	3741.7
17.5°	4102.8	4116.9	4183.2	4255.6	4281.2	4283.8	4267.0	4211.4	4123.1	3992.5	3777.0
20°	4137.2	4156.7	4260.0	4362.4	4404.8	4404.8	4372.1	4294.4	4191.1	4051.6	3800.9
22.5°	4225.5	4251.1	4380.9	4499.2	4544.3	4534.5	4490.4	4377.4	4261.7	4118.7	3830.9
25°	4399.5	4418.9	4554.0	4673.2	4700.5	4678.5	4622.8	4478.0	4351.8	4209.6	3885.6
27.5°	4623.7	4626.4	4765.9	4866.5	4849.7	4834.7	4765.0	4604.3	4481.6	4339.4	3980.1
30°	4870.1	4870.1	4992.8	5069.6	5018.4	5006.0	4936.3	4757.0	4647.6	4516.0	4114.3
32.5°	5108.4	5119.0	5218.8	5267.4	5210.0	5197.6	5129.6	4950.4	4868.3	4785.3	4323.5
35°	5338.9	5346.8	5441.3	5467.8	5413.0	5416.6	5368.0	5216.1	5185.2	5174.6	4638.7
37.5°	5562.2	5564.0	5660.2	5677.0	5649.6	5679.7	5684.1	5549.9	5607.3	5692.9	5082.8
40°	5766.2	5768.0	5863.3	5906.6	5953.4	5992.2	6026.6	5955.1	6145.0	6343.6	5611.7
42.5°	5929.5	5948.1	6069.0	6151.1	6274.7	6348.9	6442.5	6439.0	6785.0	7083.5	6250.9
45°	6073.4	6105.2	6273.9	6417.8	6629.7	6748.0	6894.5	7009.3	7505.5	7907.2	6898.1
47.5°	6263.3	6293.3	6485.7	6721.5	7004.0	7159.4	7402.2	7650.3	8297.4	8715.9	7530.2
50°	6530.8	6517.5	6707.4	7045.5	7408.4	7612.3	7958.4	8330.1	9083.2	9420.5	7901.9
52.5°	6816.0	6810.7	6951.0	7397.8	7885.1	8123.5	8580.9	9032.9	9834.6	9906.1	8072.3
55°	7169.1	7131.1	7249.5	7799.5	8451.1	8707.1	9245.7	9728.6	10433.2	10179.8	8158.0
57.5°	7539.0	7476.4	7589.4	8247.1	9089.4	9392.2	9982.0	10406.7	10831.4	10367.0	8157.1
60°	7921.3	7847.2	7981.4	8806.9	9882.2	10232.8	10780.2	10864.9	11203.1	10461.4	8097.0
62.5°	8240.9	8196.8	8396.3	9405.5	10767.8	11112.1	11383.2	11281.6	11516.5	10534.7	7956.7
65°	8579.1	8581.7	8904.0	10103.9	11709.0	11941.2	11964.1	11822.0	11778.7	10519.7	7481.7
67.5°	9036.4	9078.8	9616.5	11052.1	12624.5	12803.7	12802.0	12407.3	11970.3	9922.9	6428.4
70°	9520.3	9620.0	10437.6	12137.2	13624.0	13805.8	13712.2	12779.9	11271.0	8023.8	4549.6
72.5°	9439.0	9612.1	10894.0	12821.4	14341.7	14480.4	13872.0	11864.3	8908.4	4663.5	1937.1
75°	7282.1	7482.5	9989.1	12143.3	13588.6	13464.2	11919.1	9232.4	4868.3	1301.4	436.2
77.5°	3846.8	3953.6	6598.8	9251.0	10595.6	10335.2	8396.3	5121.7	1484.1	322.3	196.0
80°	2014.8	2039.5	2875.6	5248.8	6539.6	6541.4	4976.0	2249.6	611.8	165.1	131.6
82.5°	1078.9	1100.1	1519.5	2425.3	3426.5	3106.0	1905.3	1237.8	355.8	93.6	126.3
85°	259.6	264.0	861.7	1108.0	1347.3	962.4	565.9	1039.2	96.2	54.7	102.4
87.5°	99.8	101.5	319.6	479.4	343.4	222.5	264.9	387.6	12.4	21.2	15.9
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-SA7A-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	3870.6	3847.7	3791.2	3719.6	3656.1	3610.2	3541.3	3496.3	3466.2	3465.4	3453.9
5°	3772.6	3725.8	3604.0	3459.2	3327.6	3209.3	3069.8	2959.5	2877.4	2864.1	2835.9
7.5°	3667.5	3590.7	3403.6	3177.5	2956.8	2732.6	2472.1	2310.5	2171.9	2105.7	2098.6
10°	3603.1	3495.4	3229.6	2903.0	2556.9	2192.2	1851.4	1615.7	1445.3	1396.7	1360.5
12.5°	3589.9	3447.7	3095.4	2645.2	2150.7	1668.7	1291.7	1040.9	905.0	861.7	850.2
15°	3603.1	3425.6	2982.4	2390.0	1739.3	1184.0	867.0	721.3	670.1	657.8	656.9
17.5°	3611.0	3399.1	2854.4	2106.6	1340.2	845.8	663.9	621.6	613.6	612.7	614.5
20°	3610.2	3358.5	2701.7	1790.5	996.8	664.8	600.4	591.5	589.8	590.7	589.8
22.5°	3604.0	3310.9	2533.9	1464.7	753.1	594.2	573.0	567.7	566.8	566.8	566.8
25°	3615.5	3272.9	2349.4	1153.1	620.7	561.5	548.3	543.9	543.0	543.0	541.2
27.5°	3657.0	3251.7	2147.2	887.3	560.6	532.4	521.8	520.9	518.3	517.4	519.1
30°	3724.1	3251.7	1925.6	690.4	524.4	502.4	494.4	492.7	491.8	490.9	491.8
32.5°	3842.4	3276.4	1683.7	573.9	490.0	468.8	463.5	466.2	463.5	463.5	463.5
35°	4056.0	3350.6	1430.3	500.6	453.8	436.2	430.9	434.4	432.6	432.6	431.7
37.5°	4367.7	3488.3	1175.1	456.5	422.0	403.5	396.4	401.7	400.0	400.0	399.1
40°	4747.3	3688.7	932.3	422.9	391.1	371.7	365.5	368.2	363.8	363.8	365.5
42.5°	5216.1	3943.0	720.4	390.2	360.2	341.7	338.1	335.5	327.6	323.1	324.0
45°	5737.1	4207.9	561.5	358.5	331.1	316.1	310.8	303.7	290.5	281.6	282.5
47.5°	6202.3	4411.8	456.5	327.6	304.6	293.1	285.2	271.9	252.5	241.9	242.8
50°	6446.9	4442.7	388.5	296.7	279.9	268.4	256.9	236.6	213.7	202.2	201.3
52.5°	6509.6	4297.9	338.1	268.4	255.2	241.9	226.9	199.5	173.9	161.6	159.8
55°	6532.5	4077.2	293.1	241.9	228.7	213.7	194.2	163.3	139.5	127.1	126.3
57.5°	6456.6	3747.9	257.8	218.1	202.2	183.6	159.8	130.7	107.7	98.0	98.0
60°	6288.0	3302.0	230.4	192.5	174.8	153.6	128.9	101.5	80.3	72.4	72.4
62.5°	5951.6	2724.6	204.8	166.0	149.2	127.1	104.2	76.8	56.5	52.1	53.0
65°	5316.8	2066.9	179.2	142.1	127.1	105.1	81.2	54.7	38.0	38.0	39.7
67.5°	4335.9	1435.6	152.7	121.0	109.5	85.6	61.8	38.0	26.5	30.0	33.6
70°	2870.3	805.2	130.7	99.8	93.6	68.0	45.9	25.6	21.2	28.3	34.4
72.5°	*1083.3*	*313.4*	*109.5*	*80.3*	*81.2*	*52.1*	*32.7*	*19.4*	*19.4*	*30.9*	*40.6*
75°	302.0	153.6	78.6	59.2	63.6	38.0	23.8	16.8	18.5	35.3	47.7
77.5°	177.5	113.0	51.2	34.4	43.3	26.5	15.9	13.2	15.9	30.0	45.9
80°	143.0	60.0	30.0	17.7	23.8	15.0	10.6	7.9	4.4	11.5	23.8
82.5°	143.0	36.2	14.1	12.4	12.4	7.9	5.3	3.5	0.9	0.0	6.2
85°	96.2	15.0	8.8	7.9	6.2	2.6	1.8	0.9	0.0	0.0	0.0
87.5°	15.9	6.2	3.5	1.8	0.9	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

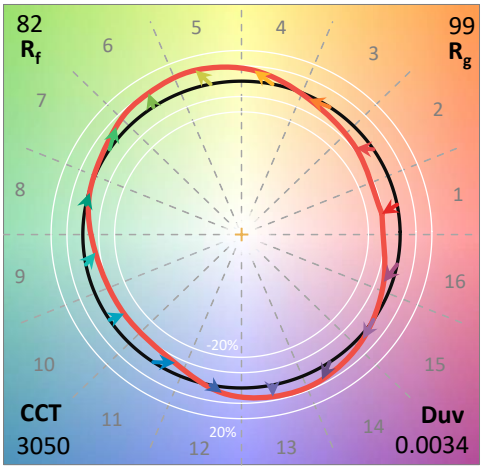
Test Information

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

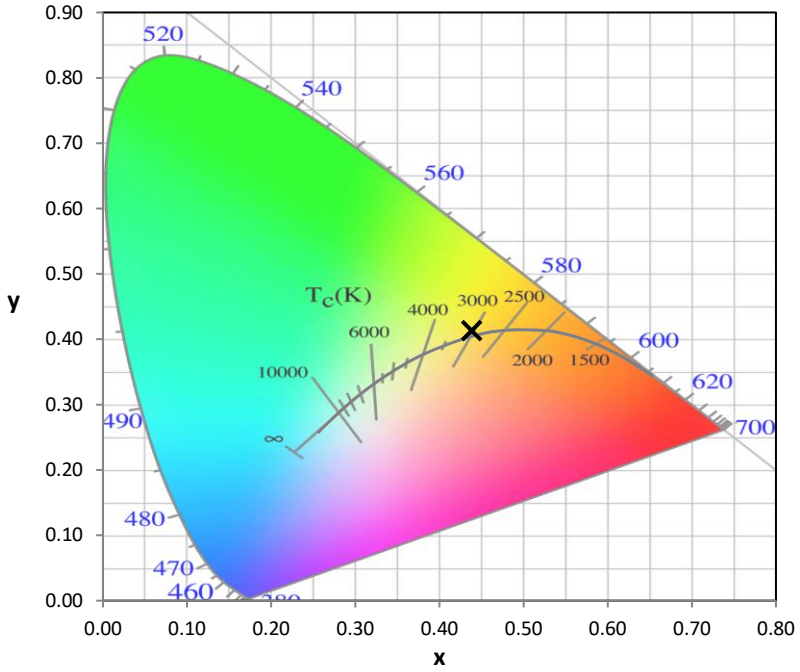
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

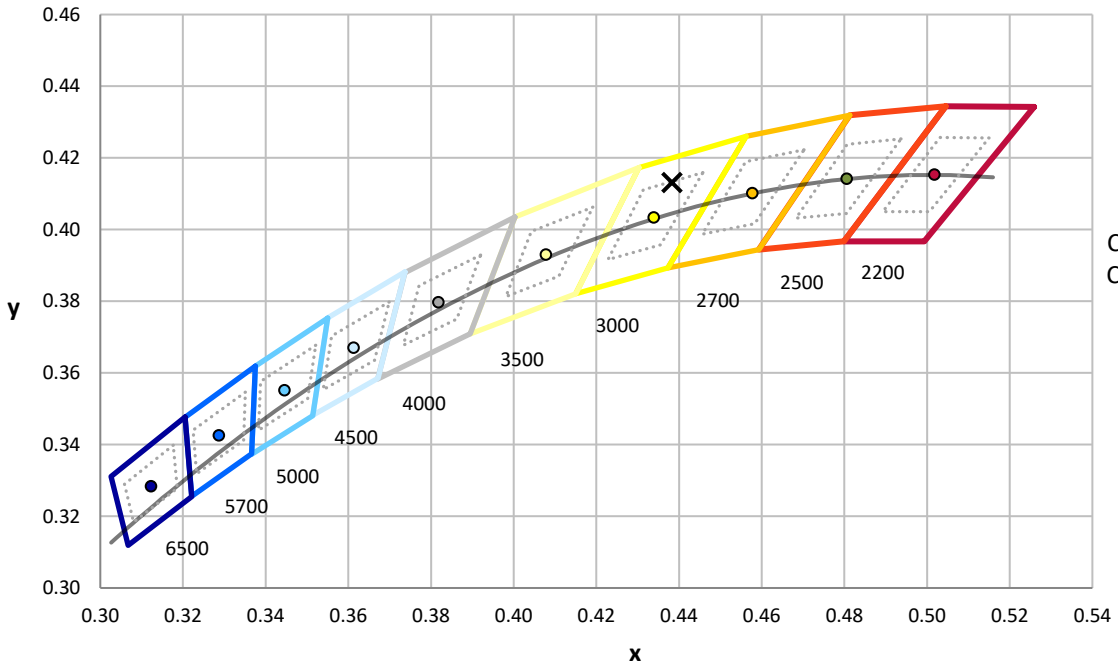
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

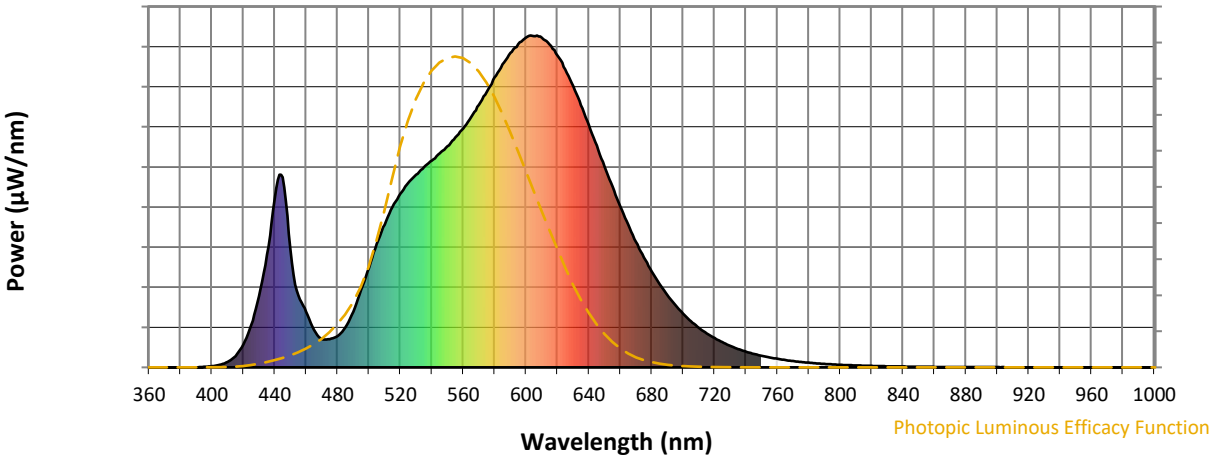


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

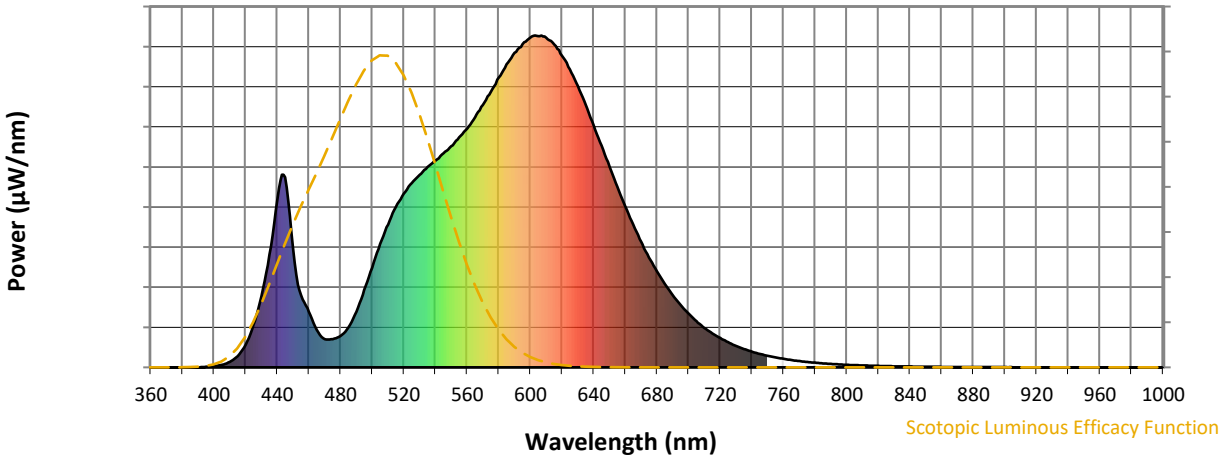


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

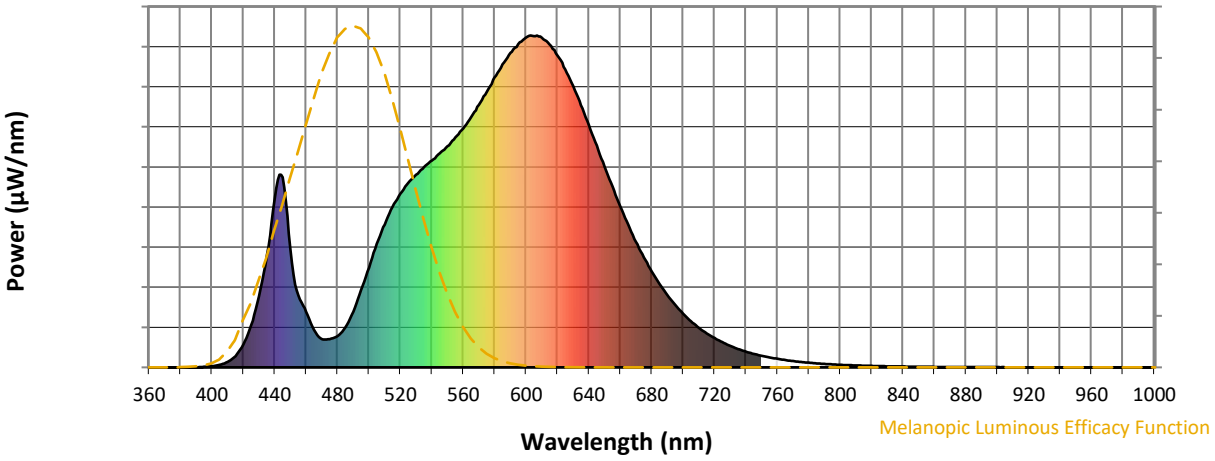


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

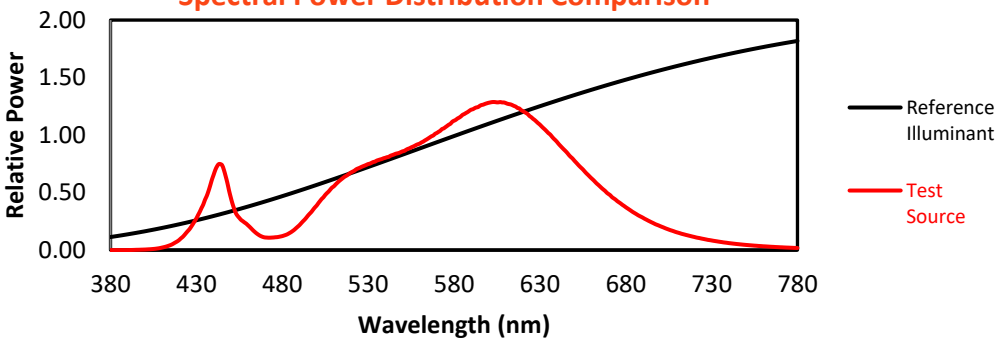
REPORT NUMBER: SP1-2408-195-9

TM-30-18

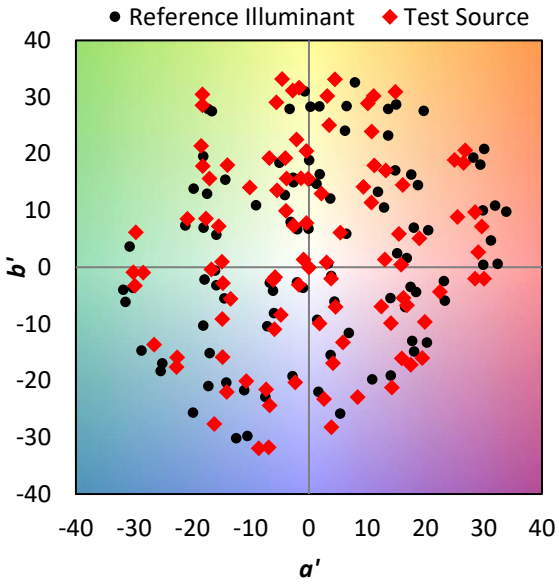
Summary

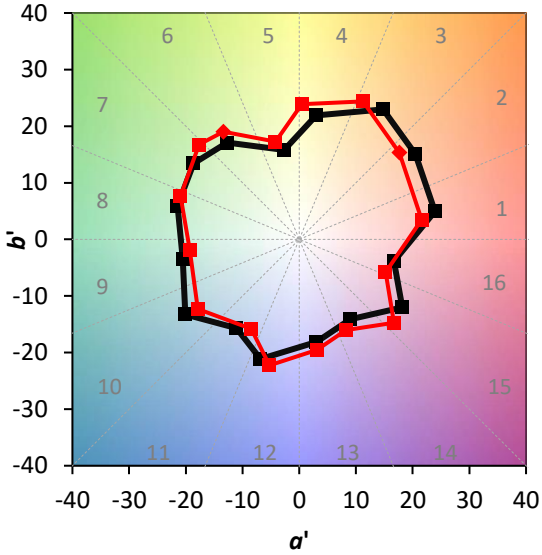
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

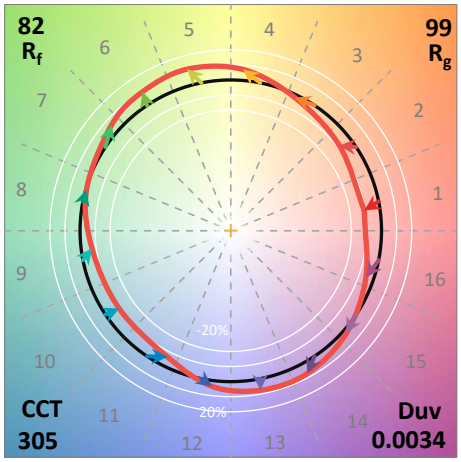
Spectral Power Distribution Comparison

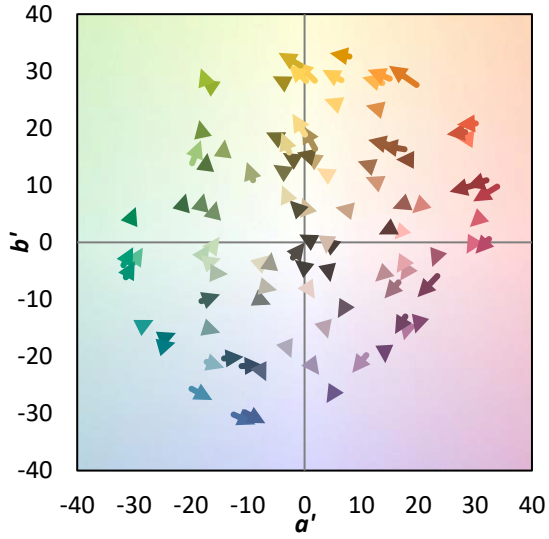


Color Vector Graphics







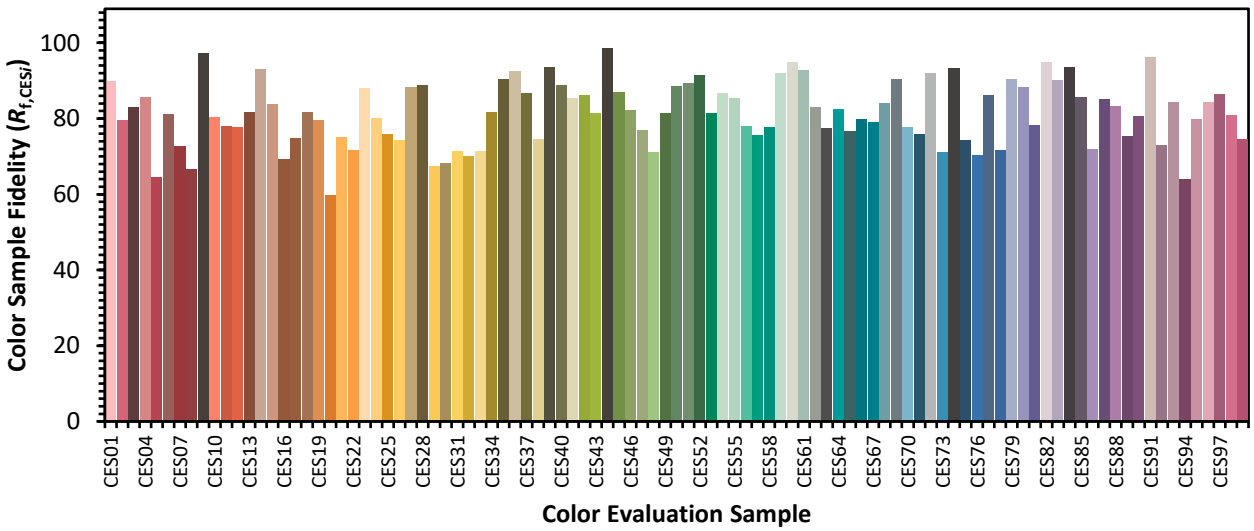


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

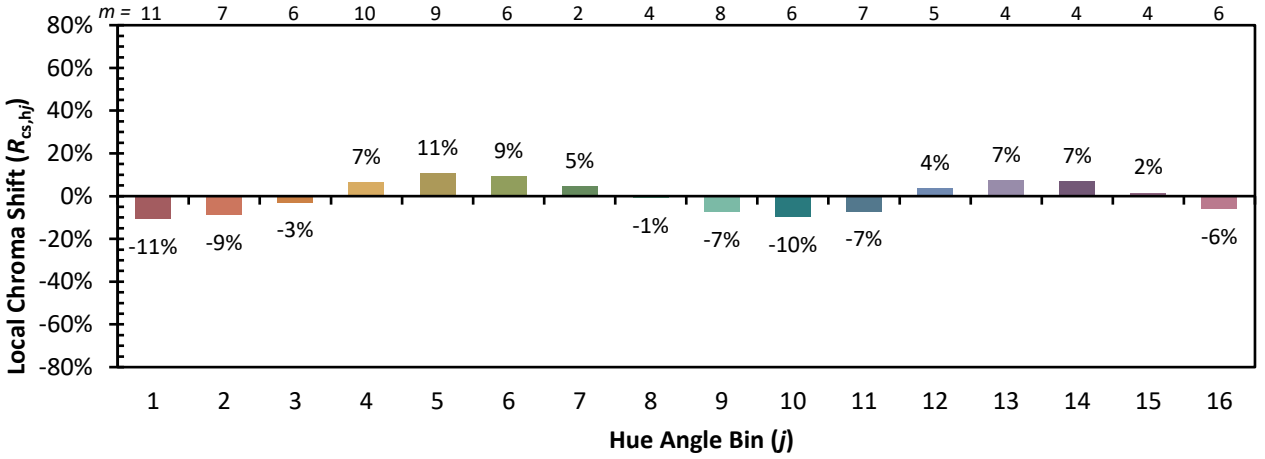
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

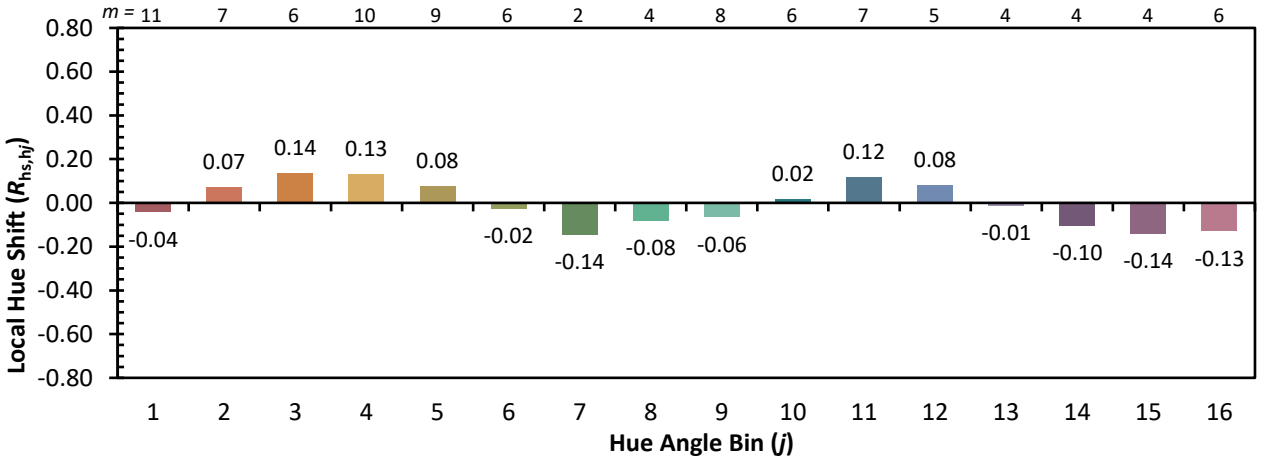


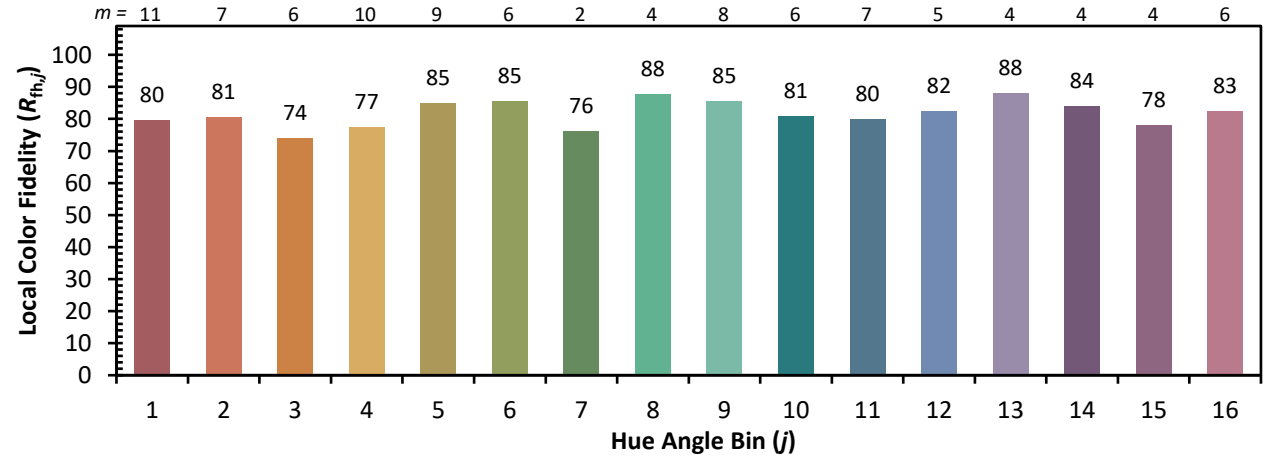
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



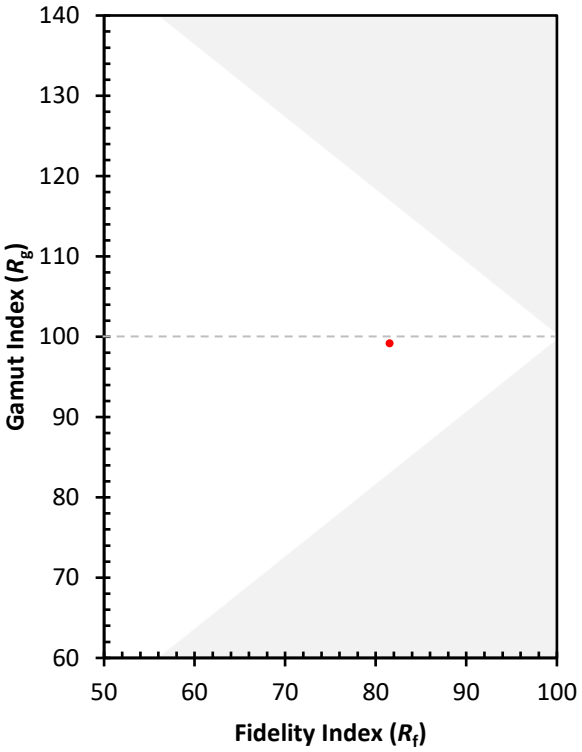


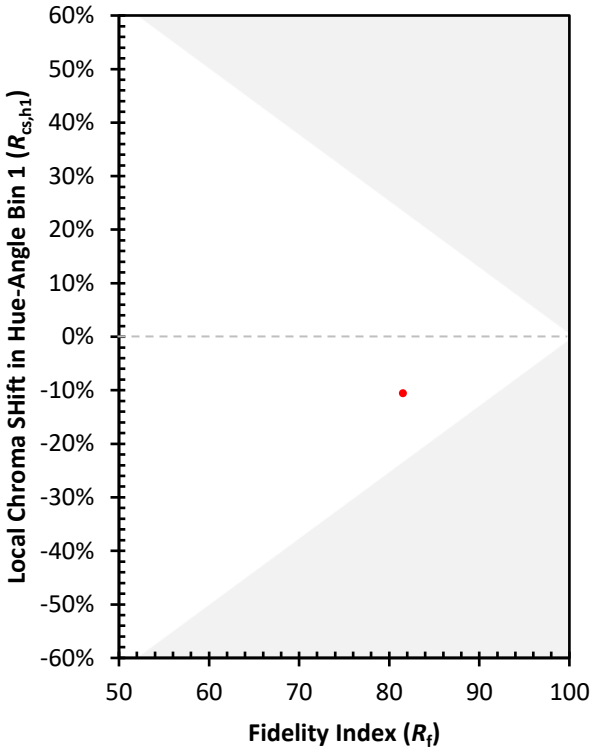


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)