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: P322413

Luminaire Tested: **GLEON-SA9C-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:	P322413
	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-SA9C-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 1050mA 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:	36616 lumens
Efficiency:	N/A
Efficacy:	73.1 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	501
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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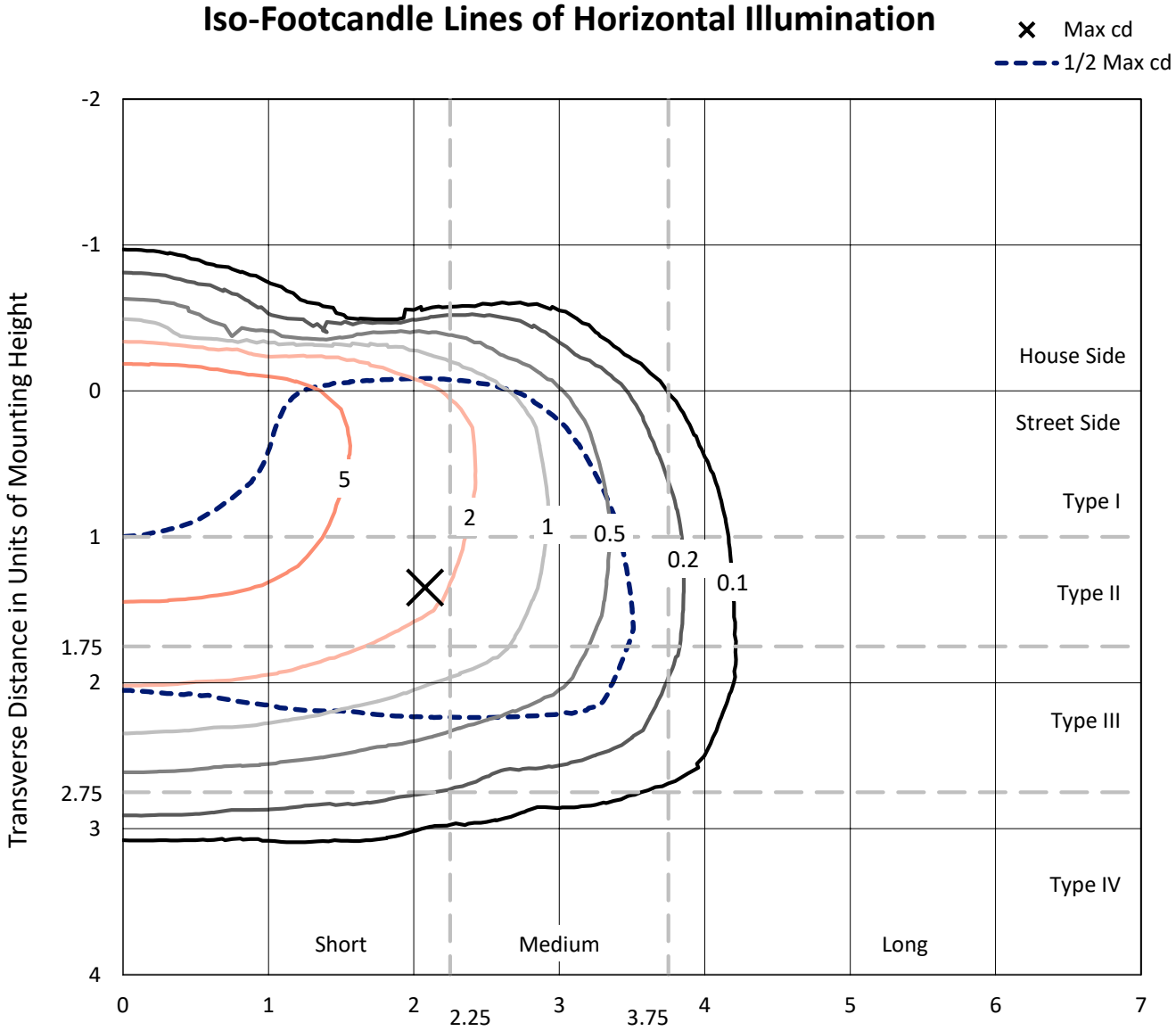
Scaled Data Report

REPORT NUMBER: P322413
CATALOG NUMBER: GLEON-SA9C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Short - N/A

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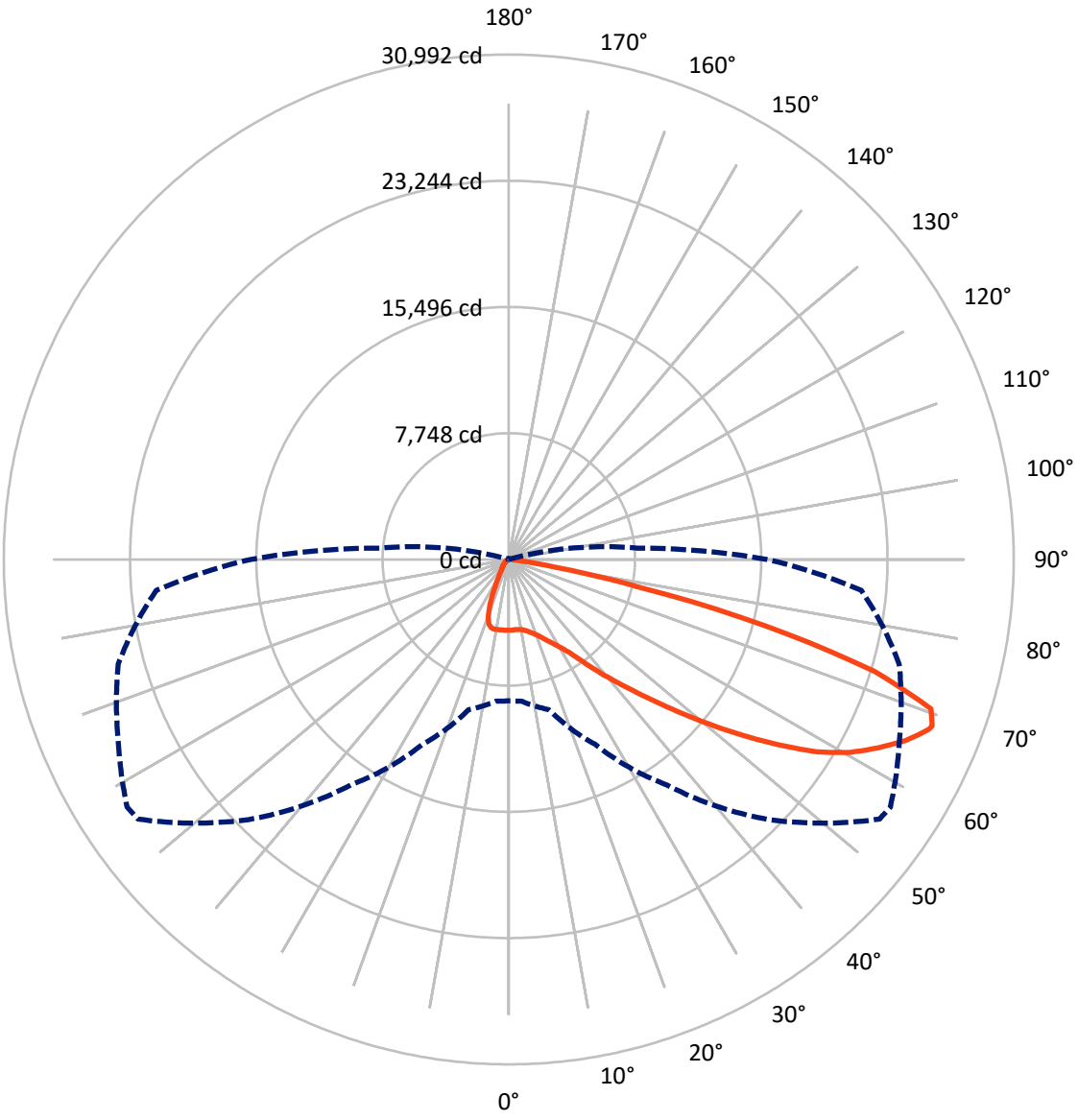
Luminous Intensity Polar Plot



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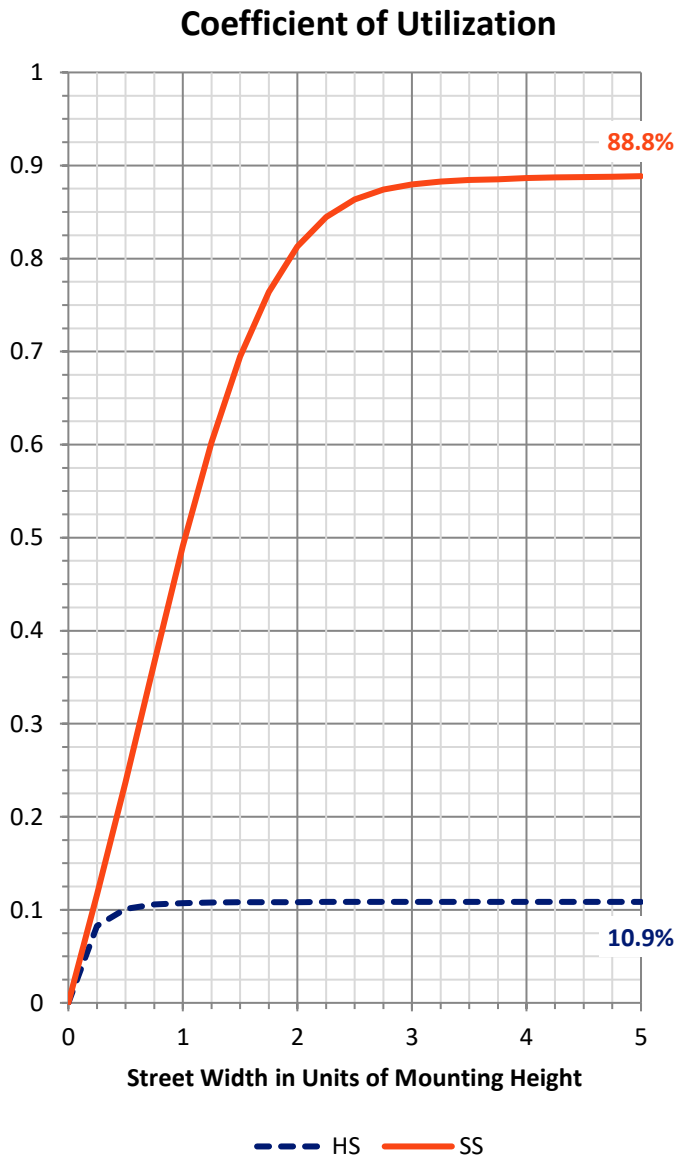
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4015.2	0.0	4015.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	32600.8	0.0	32600.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	36616.0	0.0	36616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	1.1
10°-20°	1128.3	3.1
20°-30°	1946.5	5.3
30°-40°	3359.5	9.2
40°-50°	5746.6	15.7
50°-60°	9194.0	25.1
60°-70°	10622.6	29.0
70°-80°	4059.1	11.1
80°-90°	152.2	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°	36616.0	100.0
0°-180°	36616.0	100.0



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REPORT NUMBER: P322413
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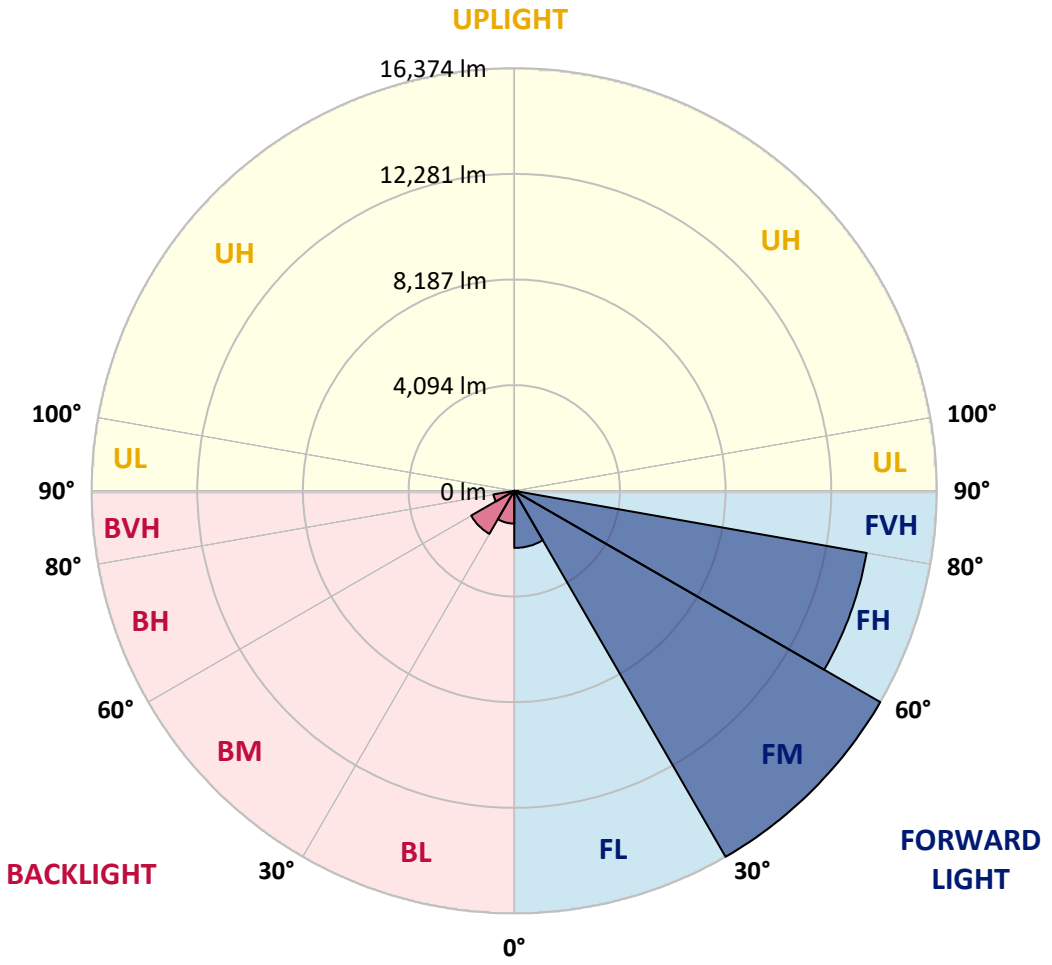
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2213.1	6.0			
FM	(30°-60°)	16374.4	44.7			
FH	(60°-80°)	13864.0	37.9			G5
FVH	(80°-90°)	149.4	0.4			G2/225
BL	(0°-30°)	1268.9	3.5	B3/2500		
BM	(30°-60°)	1925.8	5.3	B2/2500		
BH	(60°-80°)	817.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.8	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-G5
Type III Short



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REPORT NUMBER: P322413
CATALOG NUMBER: GLEON-SA9C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	*4350.9*	4350.9	4350.9	4350.9
2.5°	4248.8	4267.8	4281.7	4290.3	4300.7	4323.2	4330.2	*4340.6*	4345.8	4345.8	4357.9
5°	4080.9	4101.6	4131.1	4155.3	4203.8	4266.1	4311.1	*4328.4*	4359.6	4387.3	4402.9
7.5°	3925.0	3949.3	3983.9	4041.0	4124.1	4224.6	4318.1	*4342.3*	4402.9	4461.8	4491.2
10°	3824.6	3843.7	3888.7	3970.0	4079.1	4219.4	4350.9	*4380.4*	4484.3	4583.0	4638.4
12.5°	3790.0	3807.3	3854.0	3945.8	4080.9	4245.3	4427.1	*4470.4*	4622.8	4766.5	4844.4
15°	3840.2	3843.7	3893.9	3980.4	4113.7	4309.4	4553.5	*4605.5*	4797.6	4984.6	5081.6
17.5°	4034.1	4018.5	4044.5	4082.6	4188.2	4394.2	4686.8	*4764.7*	5021.0	5240.9	5332.6
20°	4518.9	4518.9	4460.0	4356.1	4357.9	4525.8	4866.9	*4955.2*	5268.6	5523.1	5606.2
22.5°	5348.2	5332.6	5214.9	4960.4	4726.7	4752.6	5086.8	*5201.1*	5566.4	5838.2	5865.9
25°	6345.5	6326.4	6144.7	5786.3	5381.1	5119.7	5384.6	*5516.2*	5921.3	6162.0	6104.8
27.5°	7401.6	7386.0	7206.0	6761.0	6184.5	5704.9	5739.5	*5864.2*	6283.2	6520.4	6338.6
30°	8424.9	8430.1	8251.7	7794.7	7141.9	6451.1	6189.7	*6262.4*	6634.6	6875.3	6615.6
32.5°	9397.9	9404.8	9250.7	8740.0	8130.5	7318.5	6813.0	*6793.9*	7043.2	7280.4	6982.6
35°	10265.3	10282.6	10177.0	9780.5	9134.7	8284.6	7621.5	*7576.5*	7623.2	7891.6	7545.3
37.5°	11101.6	11112.0	11032.3	10698.2	10158.0	9346.0	8643.0	*8579.0*	8478.5	8684.6	8288.1
40°	12017.5	11991.5	11899.7	11596.8	11132.7	10518.1	9740.7	*9629.9*	9455.0	9638.6	9264.6
42.5°	12869.3	12839.9	12855.5	12512.6	12121.4	11723.1	11020.2	*10829.8*	10727.6	10938.8	10462.7
45°	13934.1	13918.5	13970.5	13672.7	13355.8	13066.7	12486.7	*12278.9*	12233.9	12481.5	11911.9
47.5°	14985.1	15023.1	15184.2	15057.8	14929.6	14675.1	14039.7	*13946.2*	13973.9	14273.5	13440.7
50°	15861.1	15906.1	16347.6	16493.1	16678.3	16529.4	15892.3	*15835.2*	15944.2	16214.3	15085.5
52.5°	16494.8	16586.6	17135.4	17805.5	18480.7	18581.1	17945.7	*17893.8*	18040.9	18082.5	16356.3
55°	16934.6	17016.0	17637.5	18863.3	20238.0	20670.9	20276.1	*20075.3*	20047.6	19637.3	17692.9
57.5°	17012.5	17003.8	17897.2	19547.2	21616.2	22733.0	22483.6	*22286.3*	21718.4	21074.3	19225.2
60°	16572.7	16622.9	17660.0	19784.4	22481.9	24292.9	24312.0	*24055.7*	23171.0	22471.5	20710.7
62.5°	15218.8	15423.1	16470.6	19162.9	22471.5	24921.4	25652.1	*25456.4*	24398.5	23616.0	22217.0
65°	13023.4	13096.1	14095.1	17033.3	20953.1	24658.2	26858.8	*26786.1*	25504.9	24727.5	22990.9
67.5°	9510.4	9352.9	10402.1	13413.0	17739.7	23124.2	27724.5	*27816.3*	26358.5	24956.0	22166.8
68°	*8679.4*	*8726.1*	*9543.3*	*12517.8*	*16898.2*	*22582.3*	*27781.6*	*27921.9*	*26443.3*	*24807.1*	*21716.6*
70°	5173.3	5263.4	5992.3	8618.8	12855.5	19516.1	27165.3	*27485.6*	25937.7	23271.4	18783.7
72.5°	1321.0	1428.4	2117.5	3857.5	7342.8	13750.6	22932.1	*23474.0*	22520.0	18878.9	12680.6
75°	543.7	571.4	756.6	1270.8	2735.6	6194.9	15114.9	*16274.9*	15611.8	11302.4	5730.9
77.5°	375.7	394.8	486.5	704.7	1184.3	2100.2	7410.3	*8248.3*	7431.1	3857.5	1250.1
80°	270.1	285.7	348.0	469.2	680.4	749.7	2415.3	*2792.7*	2217.9	846.6	309.9
82.5°	161.0	173.1	259.7	334.2	413.8	358.4	600.8	*682.2*	642.3	420.7	138.5
85°	79.6	93.5	174.9	238.9	223.3	150.6	183.5	*204.3*	252.8	256.2	74.4
87.5°	5.2	10.4	102.2	143.7	62.3	34.6	53.7	*65.8*	90.0	126.4	31.2
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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REPORT NUMBER: P322413
CATALOG NUMBER: GLEON-SA9C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
2.5°	4363.1	4364.8	4352.7	4347.5	4350.9	4330.2	4321.5	4325.0	4325.0	4330.2	4321.5
5°	4406.4	4406.4	4385.6	4357.9	4342.3	4302.5	4276.5	4269.6	4264.4	4260.9	4254.0
7.5°	4499.8	4489.5	4453.1	4392.5	4340.6	4254.0	4188.2	4153.6	4136.3	4129.3	4124.1
10°	4650.5	4631.4	4570.8	4458.3	4338.8	4184.7	4041.0	3938.9	3854.0	3819.4	3798.6
12.5°	4853.0	4825.3	4723.2	4536.2	4326.7	4042.8	3731.1	3431.6	3152.8	3038.6	2981.4
15°	5086.8	5047.0	4885.9	4602.0	4255.7	3722.5	3045.5	2520.9	2134.8	1989.4	1927.0
17.5°	5324.0	5272.0	5027.9	4643.5	4042.8	3059.3	2136.5	1613.6	1355.7	1286.4	1262.2
20°	5562.9	5486.7	5150.8	4612.4	3561.4	2205.8	1409.3	1179.1	1104.6	1083.8	1076.9
22.5°	5789.7	5672.0	5261.6	4491.2	2820.4	1480.3	1115.0	1042.3	1018.0	1005.9	1002.5
25°	5987.1	5822.6	5358.6	4117.2	1996.3	1118.5	1004.2	980.0	948.8	926.3	928.0
27.5°	6172.4	5973.2	5417.5	3500.8	1331.4	955.7	929.7	896.9	839.7	806.8	806.8
30°	6395.7	6174.1	5460.8	2694.0	980.0	844.9	824.1	773.9	696.0	652.7	652.7
32.5°	6731.6	6478.8	5433.1	1890.7	812.0	742.8	694.3	625.0	540.2	498.6	496.9
35°	7245.8	6949.7	5235.7	1239.7	716.8	645.8	567.9	483.1	408.6	374.0	372.2
37.5°	7938.4	7580.0	4792.4	886.5	642.3	555.8	462.3	368.8	313.4	290.9	289.1
40°	8836.9	8312.3	4158.8	718.5	573.1	469.2	356.7	285.7	247.6	230.3	232.0
42.5°	9915.6	9096.6	3398.7	619.8	505.6	386.1	278.8	225.1	200.8	188.7	185.3
45°	11113.7	9870.6	2602.3	552.3	438.0	311.6	218.2	178.3	159.3	152.4	152.4
47.5°	12431.3	10623.7	1904.5	493.4	365.3	240.7	174.9	145.4	129.9	124.7	122.9
50°	13627.7	11146.6	1373.0	431.1	299.5	190.5	142.0	121.2	110.8	103.9	103.9
52.5°	14624.9	11311.1	1011.1	363.6	242.4	152.4	117.7	103.9	93.5	88.3	88.3
55°	15502.7	11243.6	751.4	299.5	195.6	124.7	100.4	88.3	79.6	74.4	74.4
57.5°	16344.2	11025.4	561.0	244.1	157.6	100.4	84.8	74.4	65.8	62.3	62.3
60°	17031.5	10661.8	417.3	197.4	126.4	81.4	71.0	60.6	53.7	48.5	48.5
62.5°	17589.0	10260.1	306.5	162.7	100.4	64.1	55.4	50.2	39.8	34.6	34.6
65°	17592.5	9593.6	230.3	135.0	77.9	50.2	41.6	39.8	26.0	20.8	19.0
67.5°	16319.9	8270.8	176.6	116.0	60.6	38.1	31.2	32.9	13.9	8.7	6.9
68°	*15857.7*	*7934.9*	*166.2*	*114.3*	*57.1*	*36.4*	*29.4*	*32.9*	*12.1*	*6.9*	*5.2*
70°	13369.7	6312.6	133.3	110.8	50.2	27.7	24.2	32.9	10.4	5.2	3.5
72.5°	8551.3	3663.6	98.7	88.3	38.1	20.8	15.6	29.4	10.4	3.5	1.7
75°	3639.4	1135.8	67.5	62.3	22.5	15.6	10.4	19.0	6.9	1.7	0.0
77.5°	767.0	256.2	39.8	38.1	15.6	10.4	6.9	5.2	1.7	0.0	0.0
80°	197.4	74.4	20.8	19.0	8.7	5.2	3.5	0.0	0.0	0.0	0.0
82.5°	62.3	29.4	12.1	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.2	17.3	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	5.2	1.7	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

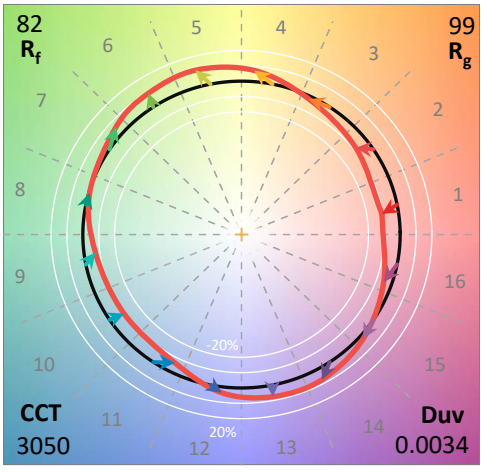
Test Information

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

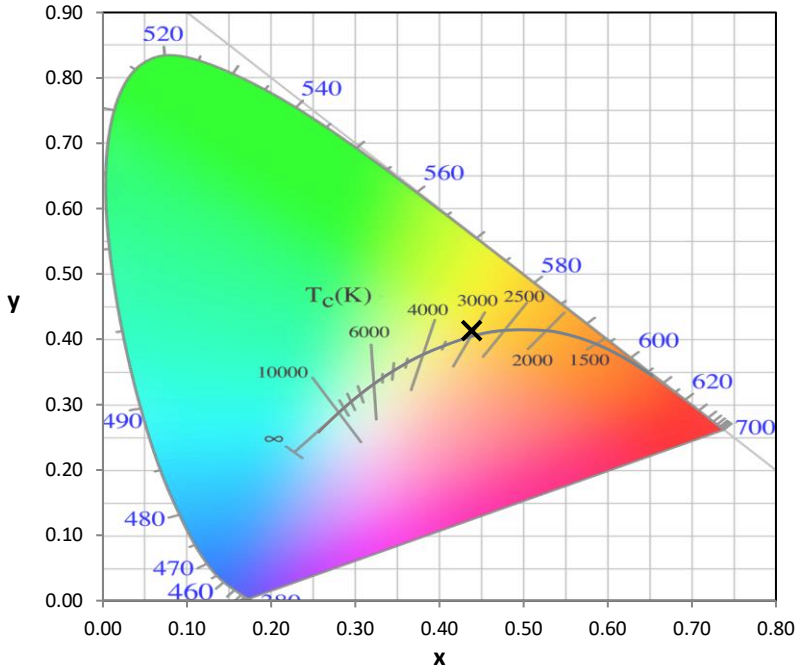
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

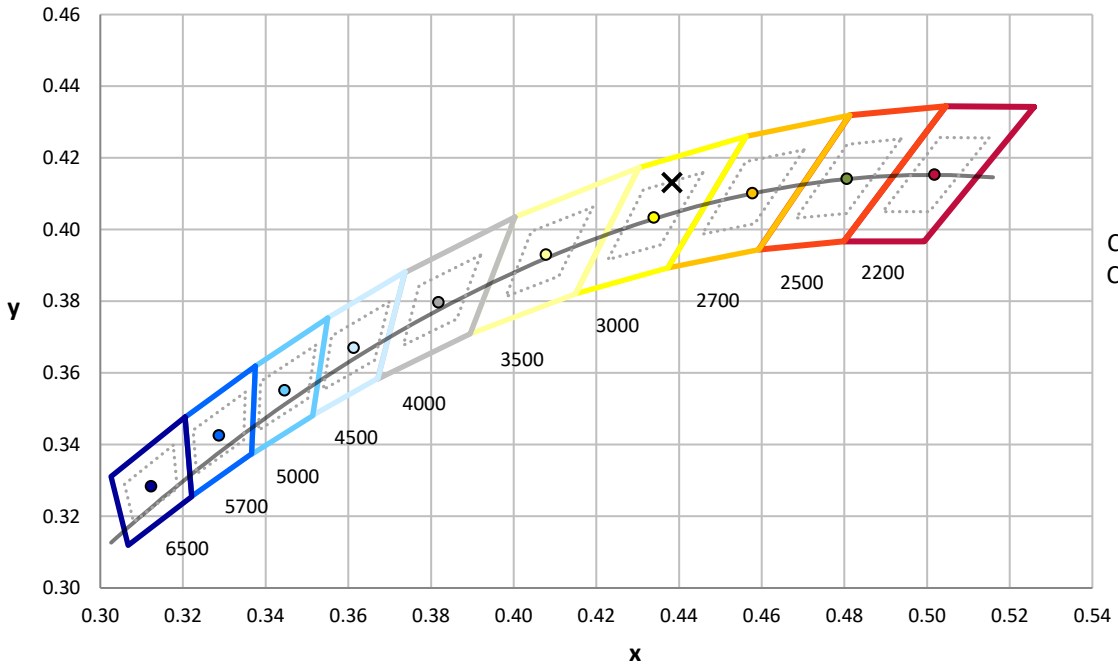
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

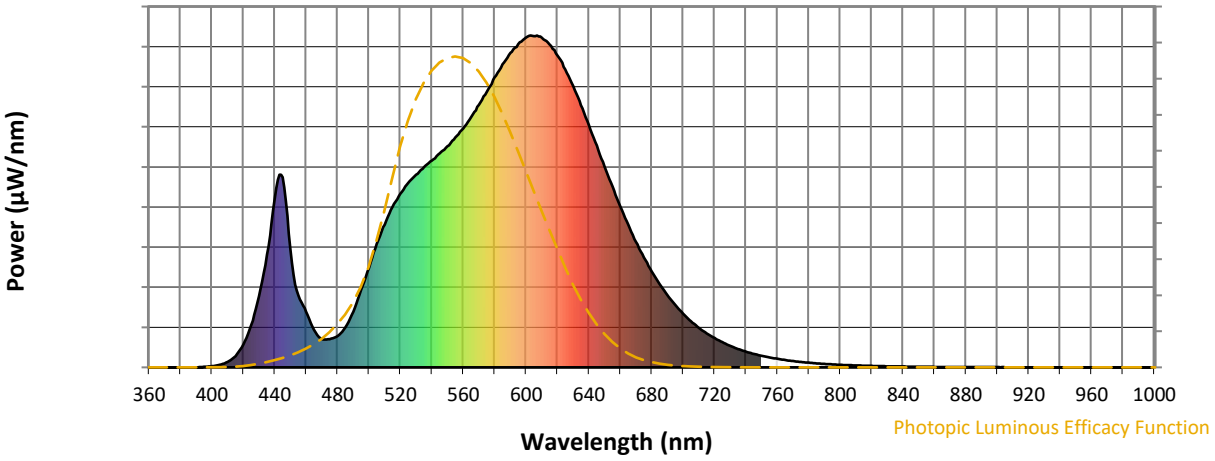


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

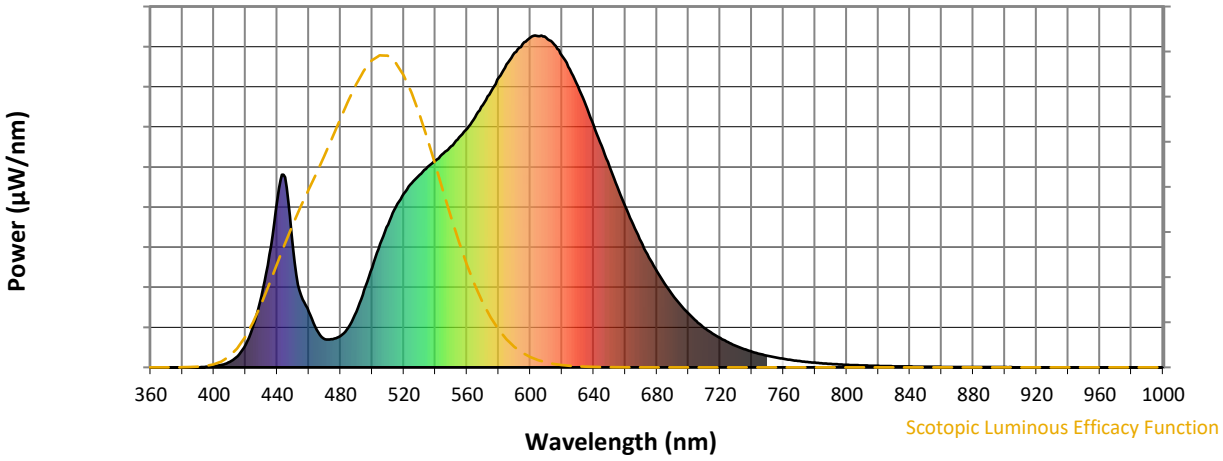


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

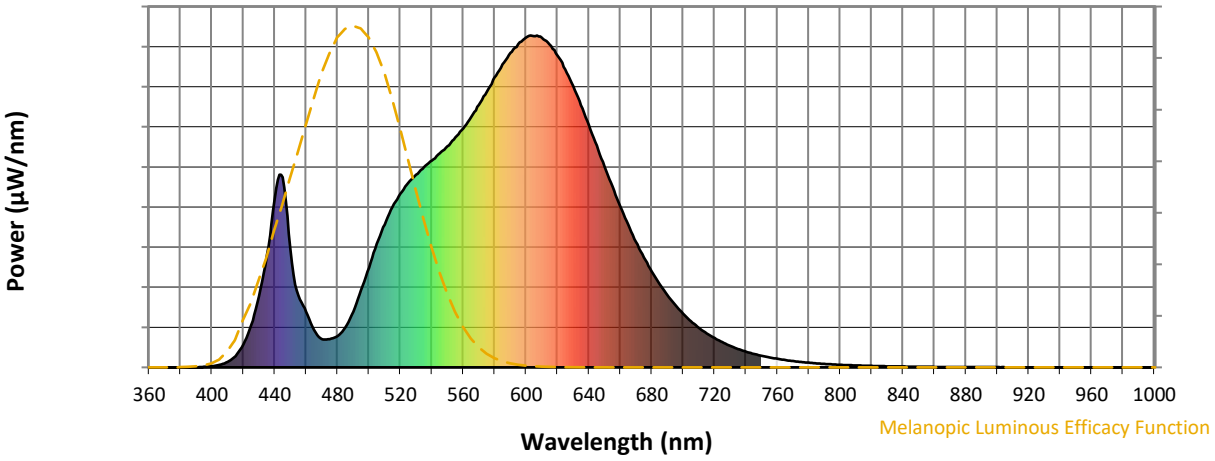


Scotopic Lumens: NR **S/P: 1.27**

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			

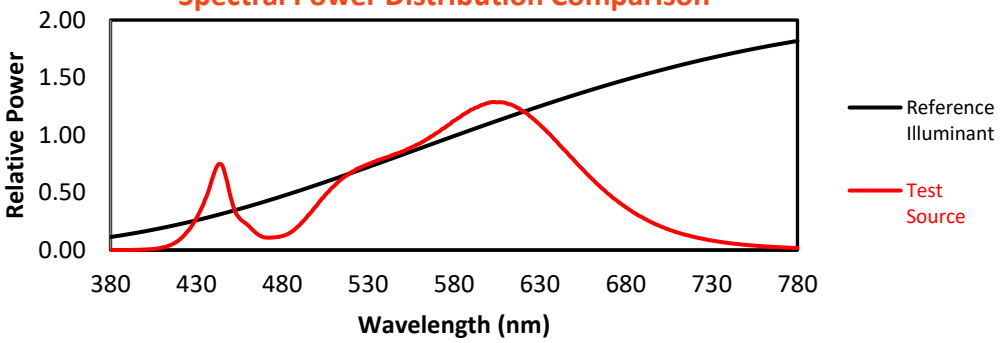
REPORT NUMBER: SP1-2408-195-9

TM-30-18

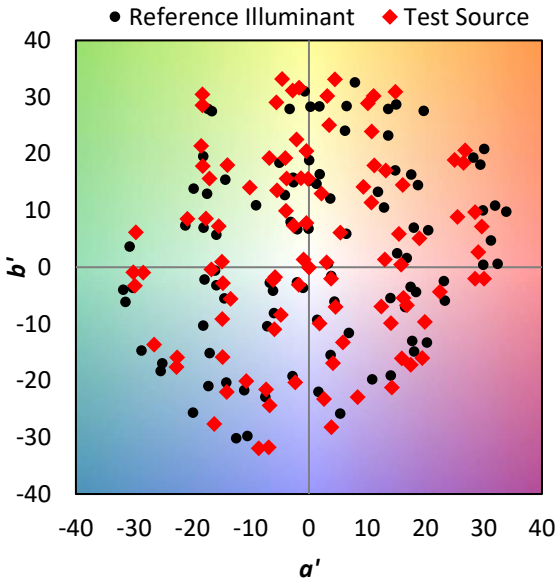
Summary

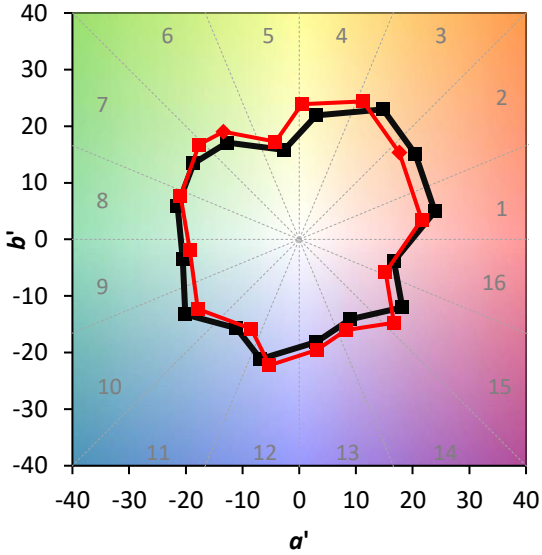
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

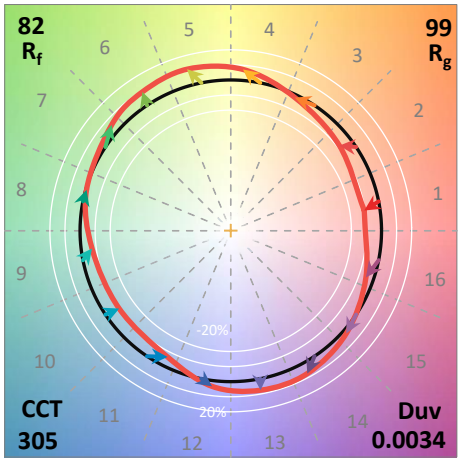
Spectral Power Distribution Comparison

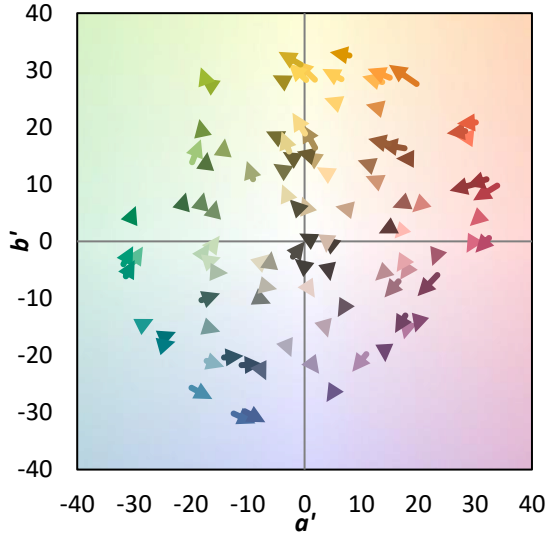


Color Vector Graphics







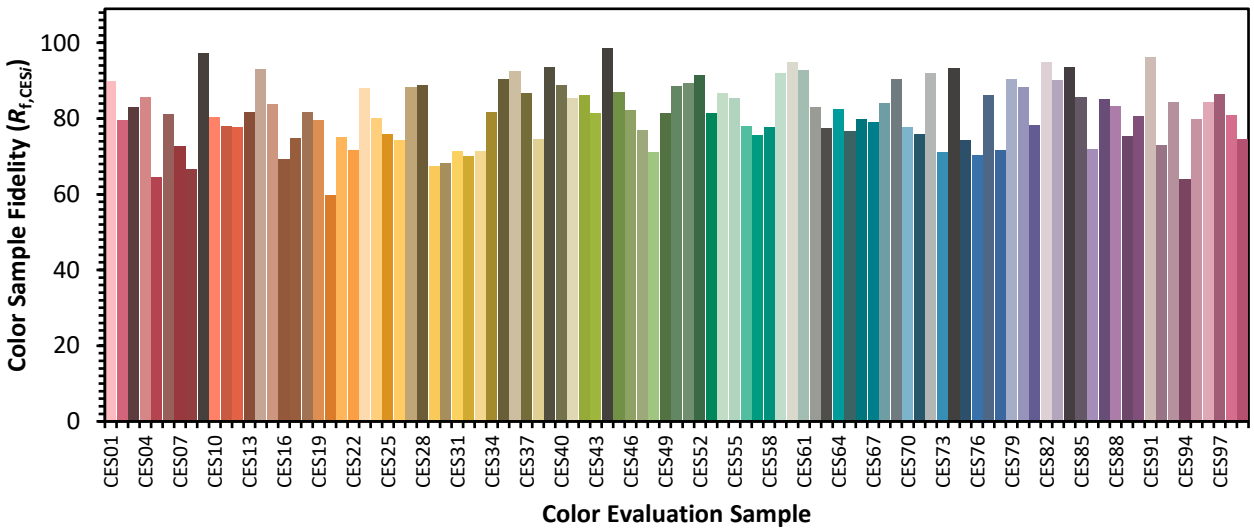


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

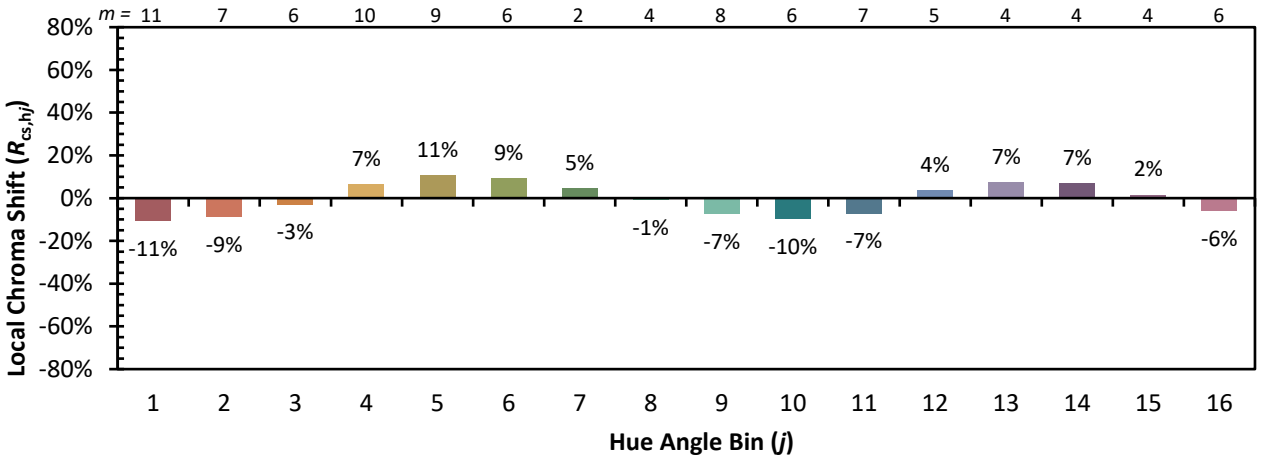
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

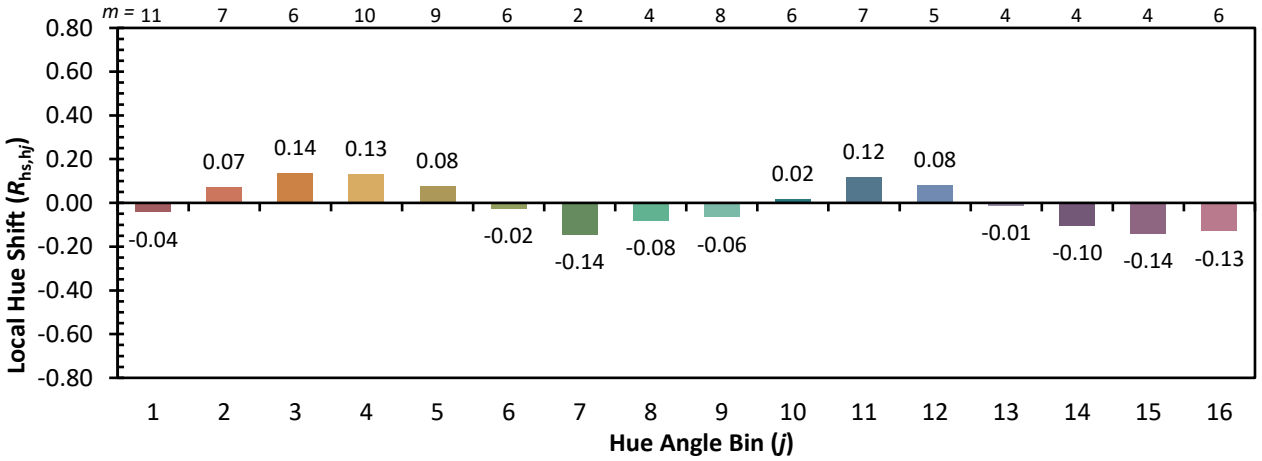


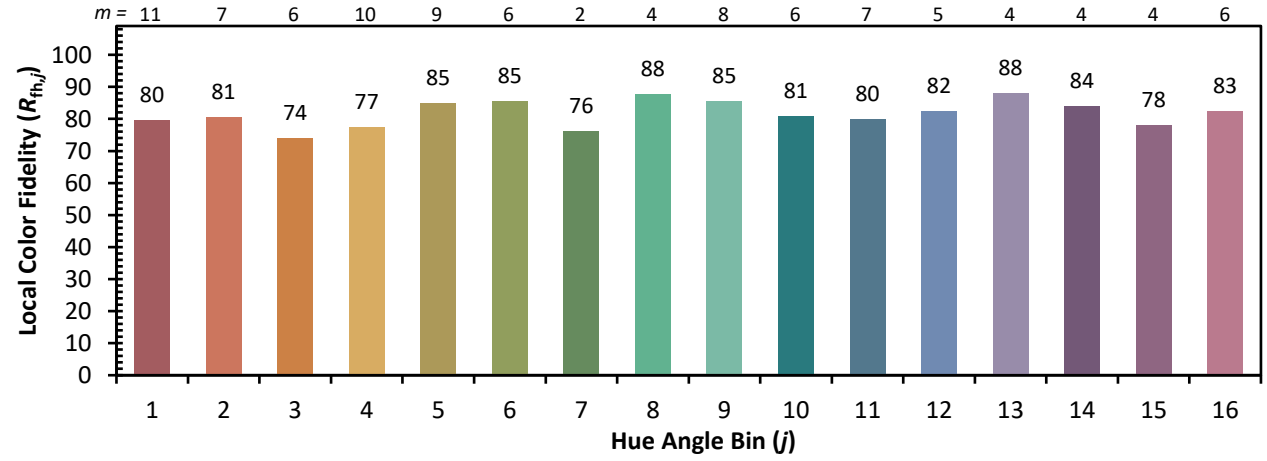
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



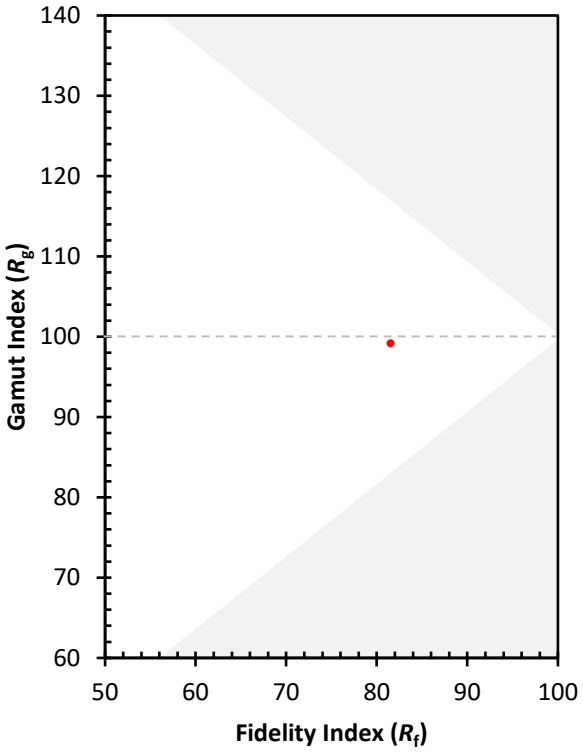


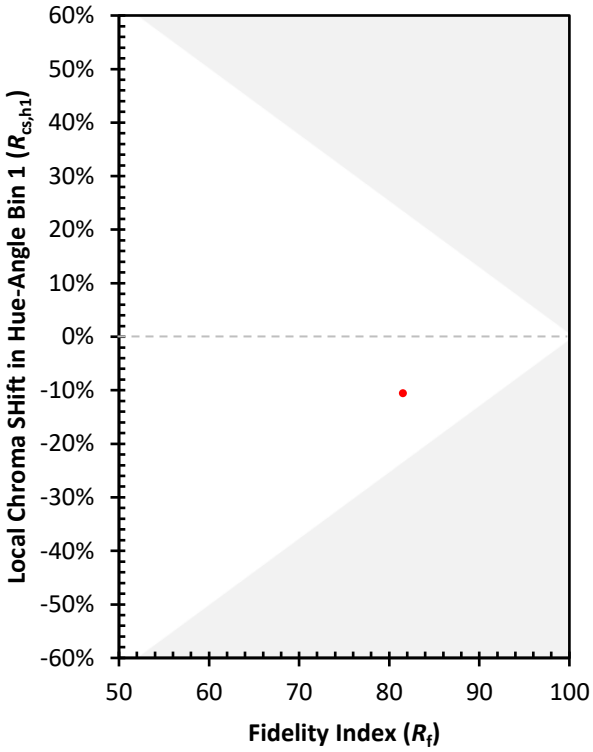


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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