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: P322386

Luminaire Tested: **GLEON-SA2A-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:	P322386
	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-SA2A-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 615mA 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:	5522 lumens
Efficiency:	N/A
Efficacy:	83.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

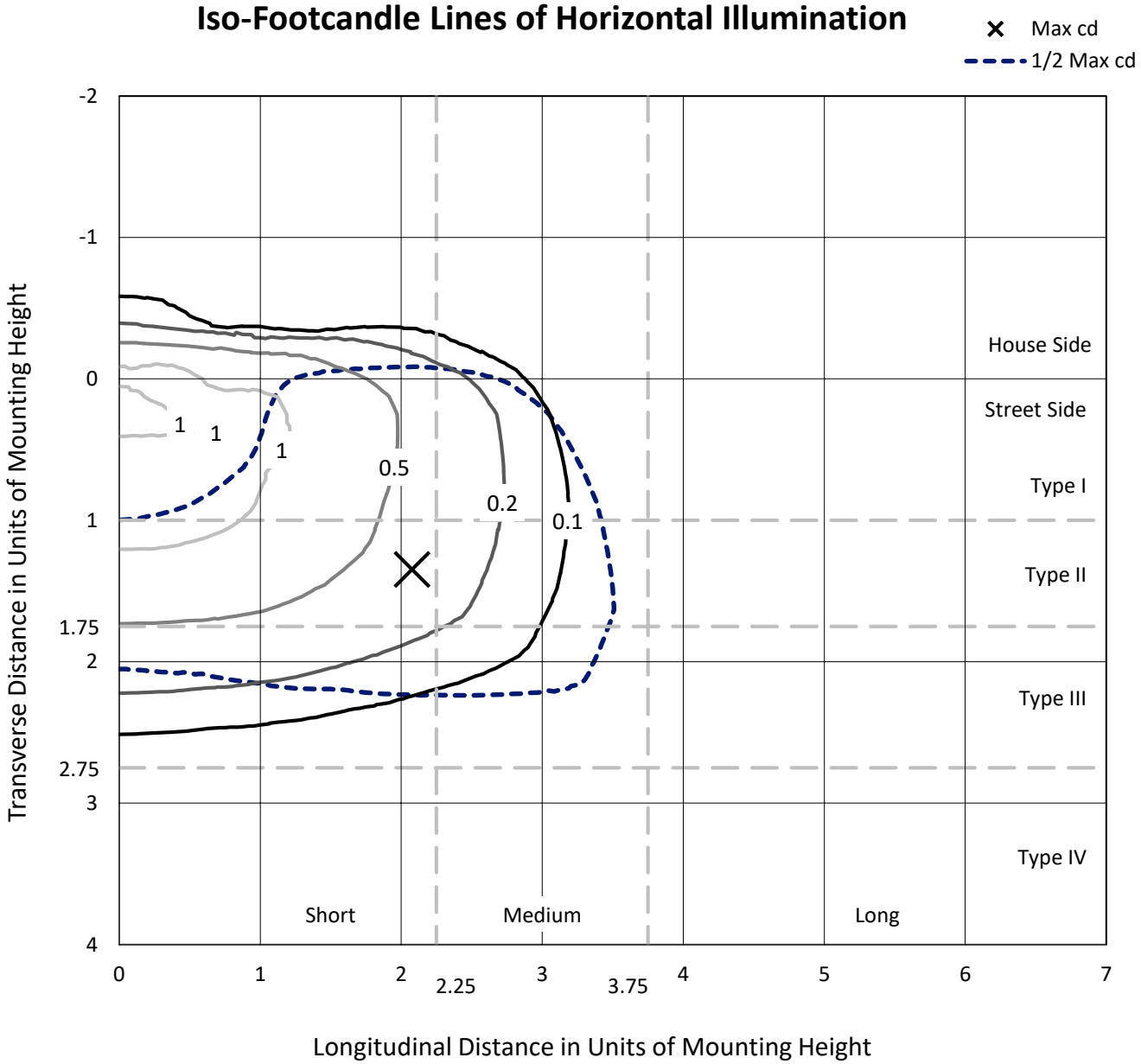
Input Watts (W):	66
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322386
CATALOG NUMBER: GLEON-SA2A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



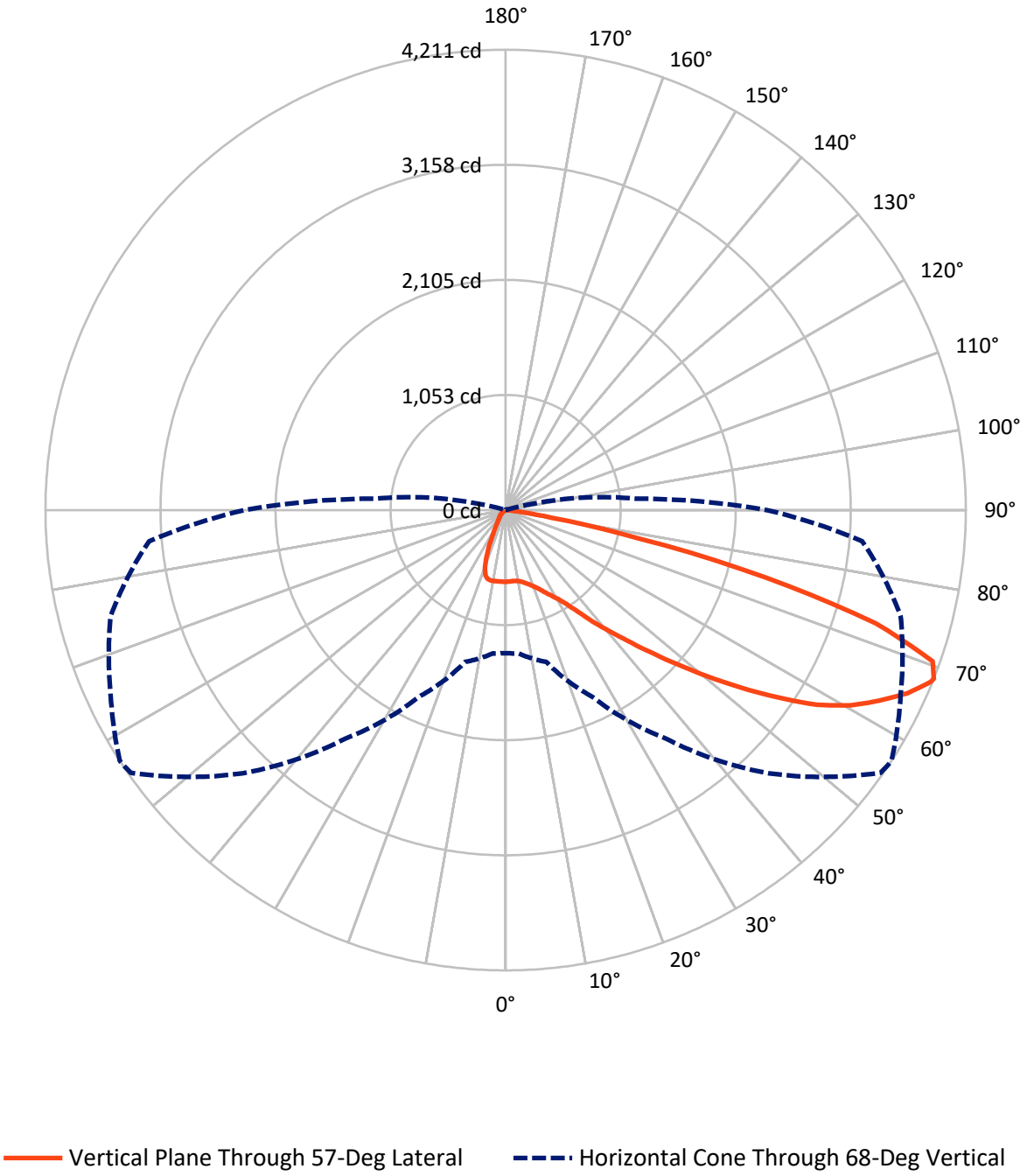
Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322386
CATALOG NUMBER: GLEON-SA2A-830-U-T3-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

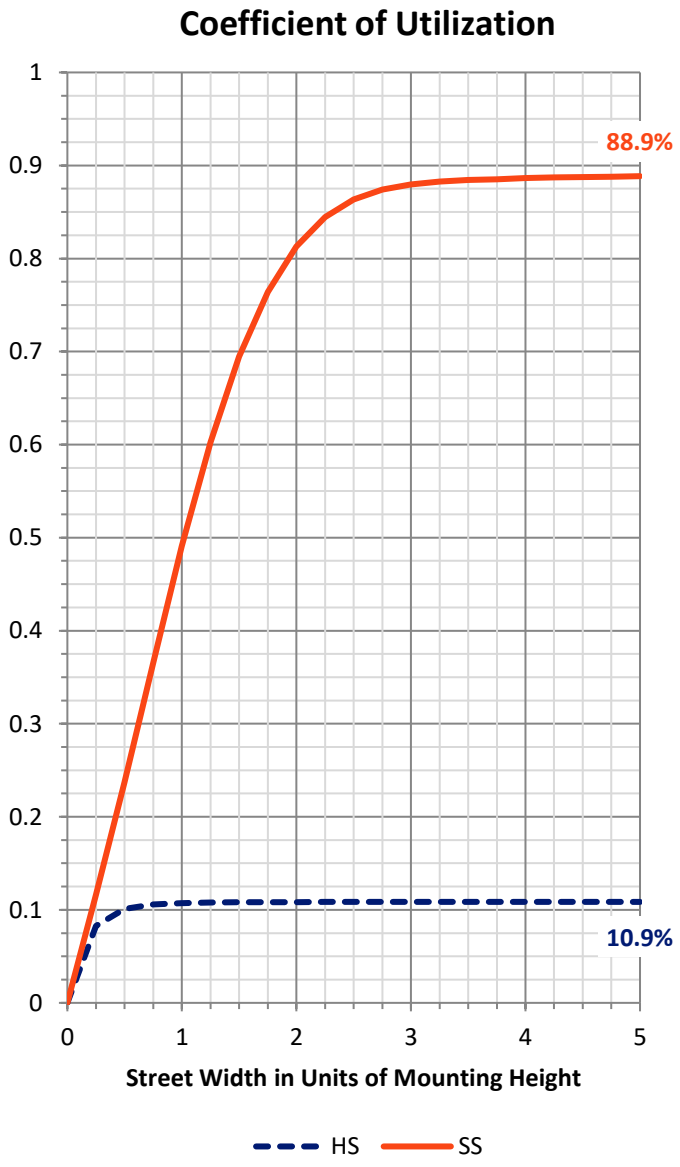
REPORT NUMBER: P322386
CATALOG NUMBER: GLEON-SA2A-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.5	0.0	605.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4916.5	0.0	4916.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	5522.0	0.0	5522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.1
10°-20°	170.2	3.1
20°-30°	293.5	5.3
30°-40°	506.7	9.2
40°-50°	866.6	15.7
50°-60°	1386.5	25.1
60°-70°	1602.0	29.0
70°-80°	612.1	11.1
80°-90°	22.9	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°	5522.0	100.0
0°-180°	5522.0	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

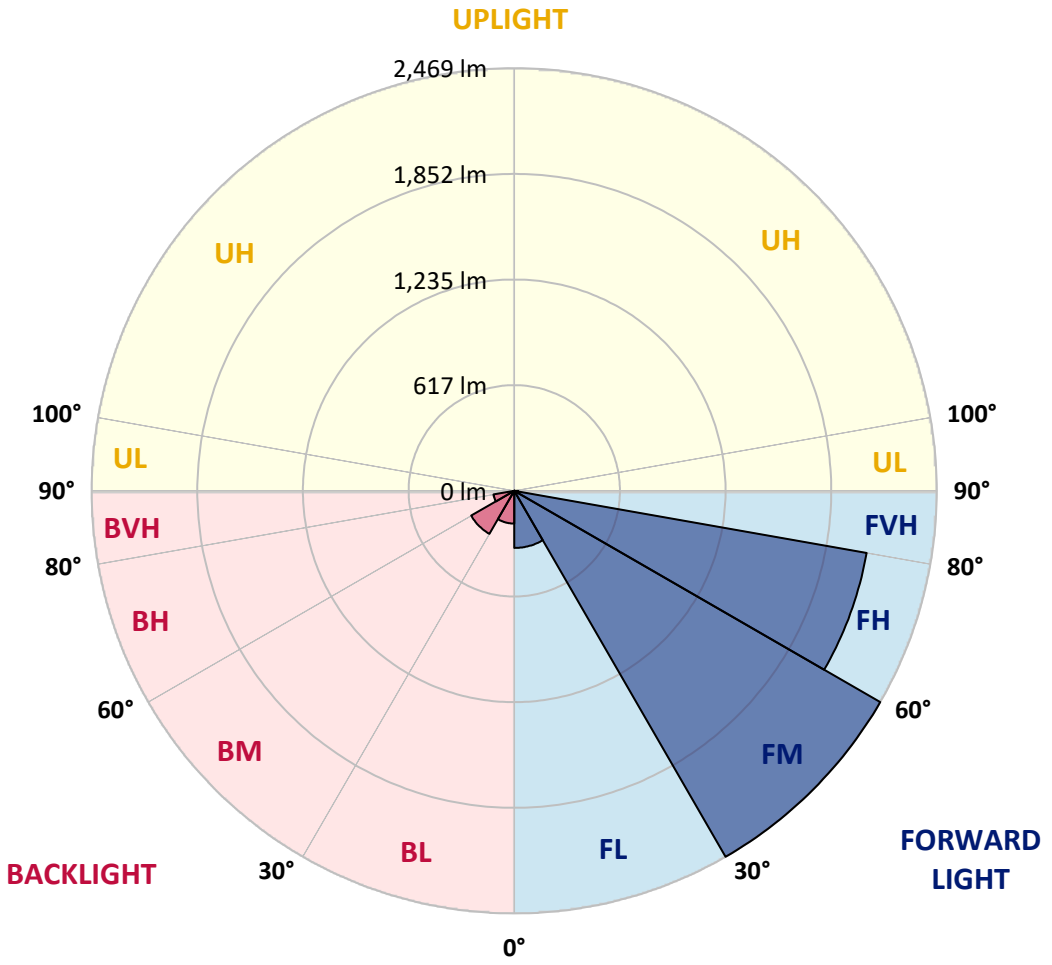
Scaled Data Report

REPORT NUMBER: P322386
CATALOG NUMBER: GLEON-SA2A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	333.8	6.0			
FM	(30°-60°)	2469.4	44.7			
FH	(60°-80°)	2090.8	37.9			G2/5000
FVH	(80°-90°)	22.5	0.4			G1/100
BL	(0°-30°)	191.4	3.5	B1/500		
BM	(30°-60°)	290.4	5.3	B1/1000		
BH	(60°-80°)	123.3	2.2	B1/500		G1/500
BVH	(80°-90°)	0.4	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 III Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322386
CATALOG NUMBER: GLEON-SA2A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	656.2	656.2	656.2	656.2	656.2	656.2	656.2	*656.2*	656.2	656.2	656.2
2.5°	640.8	643.6	645.7	647.0	648.6	652.0	653.0	*654.6*	655.4	655.4	657.2
5°	615.4	618.6	623.0	626.7	634.0	643.4	650.2	*652.8*	657.5	661.6	664.0
7.5°	591.9	595.6	600.8	609.4	622.0	637.1	651.2	*654.9*	664.0	672.9	677.3
10°	576.8	579.7	586.4	598.7	615.2	636.3	656.2	*660.6*	676.3	691.1	699.5
12.5°	571.6	574.2	581.2	595.1	615.4	640.2	667.6	*674.2*	697.2	718.8	730.6
15°	579.1	579.7	587.2	600.3	620.4	649.9	686.7	*694.5*	723.5	751.7	766.3
17.5°	608.4	606.0	609.9	615.7	631.6	662.7	706.8	*718.6*	757.2	790.4	804.2
20°	681.5	681.5	672.6	656.9	657.2	682.5	734.0	*747.3*	794.5	832.9	845.5
22.5°	806.6	804.2	786.5	748.1	712.8	716.7	767.1	*784.4*	839.5	880.4	884.6
25°	957.0	954.1	926.7	872.6	811.5	772.1	812.0	*831.9*	893.0	929.3	920.7
27.5°	1116.2	1113.9	1086.7	1019.6	932.7	860.3	865.6	*884.4*	947.6	983.3	955.9
30°	1270.5	1271.3	1244.4	1175.5	1077.1	972.9	933.5	*944.4*	1000.6	1036.9	997.7
32.5°	1417.3	1418.3	1395.1	1318.1	1226.2	1103.7	1027.5	*1024.6*	1062.2	1098.0	1053.0
35°	1548.1	1550.7	1534.8	1475.0	1377.6	1249.4	1149.4	*1142.6*	1149.6	1190.1	1137.9
37.5°	1674.2	1675.8	1663.8	1613.4	1531.9	1409.4	1303.4	*1293.8*	1278.6	1309.7	1249.9
40°	1812.3	1808.4	1794.6	1748.9	1678.9	1586.2	1469.0	*1452.3*	1425.9	1453.6	1397.2
42.5°	1940.8	1936.4	1938.7	1887.0	1828.0	1767.9	1661.9	*1633.2*	1617.8	1649.7	1577.9
45°	2101.4	2099.0	2106.9	2062.0	2014.2	1970.6	1883.1	*1851.8*	1845.0	1882.3	1796.4
47.5°	2259.9	2265.6	2289.9	2270.8	2251.5	2213.1	2117.3	*2103.2*	2107.4	2152.6	2027.0
50°	2392.0	2398.8	2465.4	2487.3	2515.2	2492.8	2396.7	*2388.1*	2404.5	2445.3	2275.0
52.5°	2487.6	2501.4	2584.2	2685.2	2787.0	2802.2	2706.4	*2698.5*	2720.7	2727.0	2466.7
55°	2553.9	2566.1	2659.9	2844.7	3052.1	3117.3	3057.8	*3027.5*	3023.3	2961.5	2668.2
57.5°	2565.6	2564.3	2699.1	2947.9	3259.9	3428.3	3390.7	*3361.0*	3275.3	3178.2	2899.3
60°	2499.3	2506.9	2663.3	2983.7	3390.5	3663.6	3666.4	*3627.8*	3494.4	3388.9	3123.3
62.5°	2295.1	2325.9	2483.9	2889.9	3388.9	3758.4	3868.5	*3839.0*	3679.5	3561.5	3350.5
65°	1964.0	1975.0	2125.7	2568.8	3159.9	3718.7	4050.5	*4039.6*	3846.4	3729.1	3467.2
67.5°	1434.3	1410.5	1568.7	2022.8	2675.3	3487.3	4181.1	*4194.9*	3975.1	3763.6	3342.9
68°	*1308.9*	*1316.0*	*1439.2*	*1887.8*	*2548.4*	*3405.6*	*4189.7*	*4210.9*	*3987.9*	*3741.1*	*3275.1*
70°	780.2	793.8	903.7	1299.8	1938.7	2943.2	4096.8	*4145.1*	3911.6	3509.5	2832.7
72.5°	199.2	215.4	319.3	581.7	1107.4	2073.7	3458.3	*3540.1*	3396.2	2847.1	1912.3
75°	82.0	86.2	114.1	191.7	412.5	934.2	2279.5	*2454.4*	2354.4	1704.5	864.3
77.5°	56.7	59.5	73.4	106.3	178.6	316.7	1117.5	*1243.9*	1120.7	581.7	188.5
80°	40.7	43.1	52.5	70.8	102.6	113.1	364.2	*421.2*	334.5	127.7	46.7
82.5°	24.3	26.1	39.2	50.4	62.4	54.0	90.6	*102.9*	96.9	63.4	20.9
85°	12.0	14.1	26.4	36.0	33.7	22.7	27.7	*30.8*	38.1	38.6	11.2
87.5°	0.8	1.6	15.4	21.7	9.4	5.2	8.1	*9.9*	13.6	19.1	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P322386
CATALOG NUMBER: GLEON-SA2A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2
2.5°	658.0	658.2	656.4	655.6	656.2	653.0	651.7	652.2	652.2	653.0	651.7
5°	664.5	664.5	661.4	657.2	654.9	648.8	644.9	643.9	643.1	642.6	641.5
7.5°	678.6	677.0	671.6	662.4	654.6	641.5	631.6	626.4	623.8	622.7	622.0
10°	701.3	698.5	689.3	672.3	654.3	631.1	609.4	594.0	581.2	576.0	572.9
12.5°	731.9	727.7	712.3	684.1	652.5	609.7	562.7	517.5	475.5	458.2	449.6
15°	767.1	761.1	736.8	694.0	641.8	561.4	459.3	380.2	321.9	300.0	290.6
17.5°	802.9	795.1	758.3	700.3	609.7	461.4	322.2	243.4	204.4	194.0	190.3
20°	838.9	827.4	776.8	695.6	537.1	332.6	212.5	177.8	166.6	163.5	162.4
22.5°	873.1	855.4	793.5	677.3	425.3	223.2	168.2	157.2	153.5	151.7	151.2
25°	902.9	878.1	808.1	620.9	301.1	168.7	151.4	147.8	143.1	139.7	140.0
27.5°	930.8	900.8	817.0	528.0	200.8	144.1	140.2	135.3	126.6	121.7	121.7
30°	964.5	931.1	823.5	406.3	147.8	127.4	124.3	116.7	105.0	98.4	98.4
32.5°	1015.2	977.1	819.4	285.1	122.5	112.0	104.7	94.3	81.5	75.2	74.9
35°	1092.7	1048.1	789.6	187.0	108.1	97.4	85.6	72.8	61.6	56.4	56.1
37.5°	1197.2	1143.1	722.7	133.7	96.9	83.8	69.7	55.6	47.3	43.9	43.6
40°	1332.7	1253.6	627.2	108.4	86.4	70.8	53.8	43.1	37.3	34.7	35.0
42.5°	1495.4	1371.9	512.6	93.5	76.2	58.2	42.0	33.9	30.3	28.5	27.9
45°	1676.0	1488.6	392.4	83.3	66.1	47.0	32.9	26.9	24.0	23.0	23.0
47.5°	1874.7	1602.1	287.2	74.4	55.1	36.3	26.4	21.9	19.6	18.8	18.5
50°	2055.2	1681.0	207.1	65.0	45.2	28.7	21.4	18.3	16.7	15.7	15.7
52.5°	2205.6	1705.8	152.5	54.8	36.6	23.0	17.8	15.7	14.1	13.3	13.3
55°	2337.9	1695.6	113.3	45.2	29.5	18.8	15.1	13.3	12.0	11.2	11.2
57.5°	2464.8	1662.7	84.6	36.8	23.8	15.1	12.8	11.2	9.9	9.4	9.4
60°	2568.5	1607.9	62.9	29.8	19.1	12.3	10.7	9.1	8.1	7.3	7.3
62.5°	2652.6	1547.3	46.2	24.5	15.1	9.7	8.4	7.6	6.0	5.2	5.2
65°	2653.1	1446.8	34.7	20.4	11.7	7.6	6.3	6.0	3.9	3.1	2.9
67.5°	2461.2	1247.3	26.6	17.5	9.1	5.7	4.7	5.0	2.1	1.3	1.0
68°	*2391.5*	*1196.6*	*25.1*	*17.2*	*8.6*	*5.5*	*4.4*	*5.0*	*1.8*	*1.0*	*0.8*
70°	2016.3	952.0	20.1	16.7	7.6	4.2	3.7	5.0	1.6	0.8	0.5
72.5°	1289.6	552.5	14.9	13.3	5.7	3.1	2.3	4.4	1.6	0.5	0.3
75°	548.8	171.3	10.2	9.4	3.4	2.3	1.6	2.9	1.0	0.3	0.0
77.5°	115.7	38.6	6.0	5.7	2.3	1.6	1.0	0.8	0.3	0.0	0.0
80°	29.8	11.2	3.1	2.9	1.3	0.8	0.5	0.0	0.0	0.0	0.0
82.5°	9.4	4.4	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.6	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.8	0.3	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

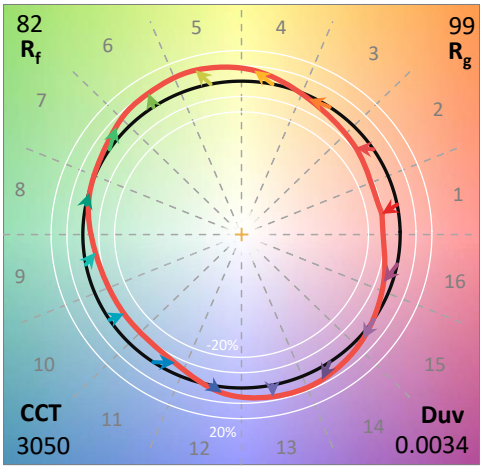
Test Information

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

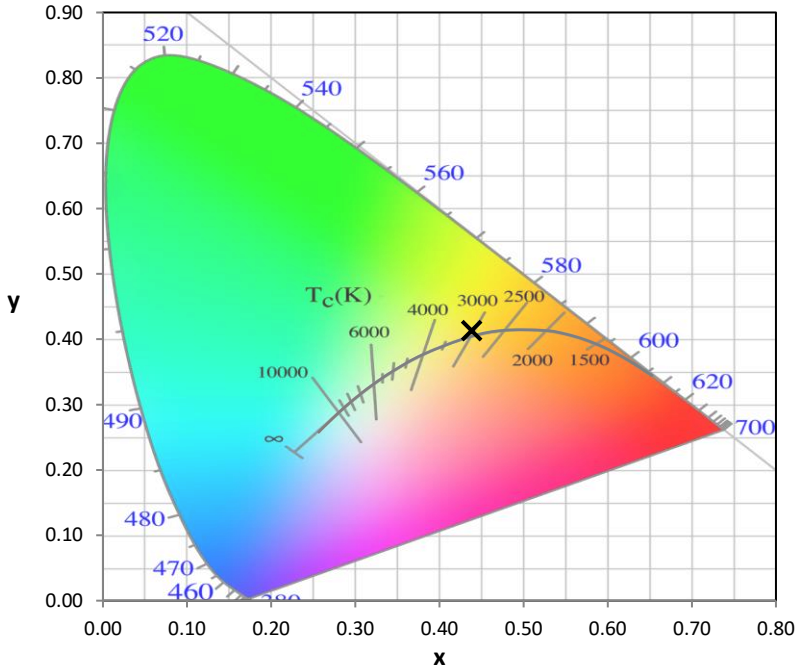
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

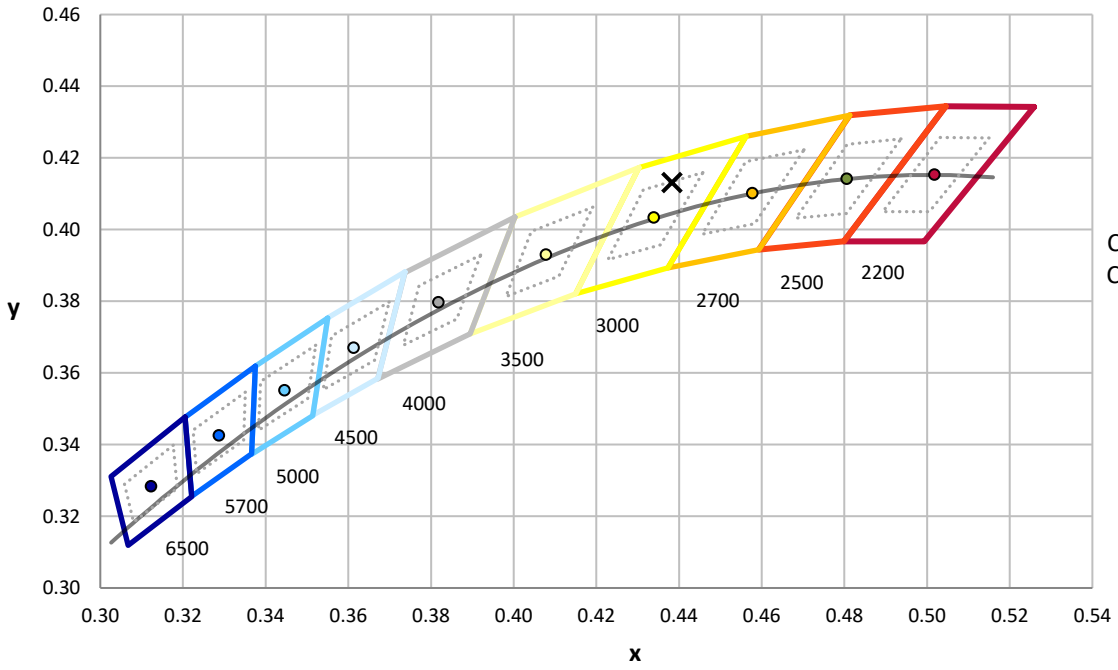
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

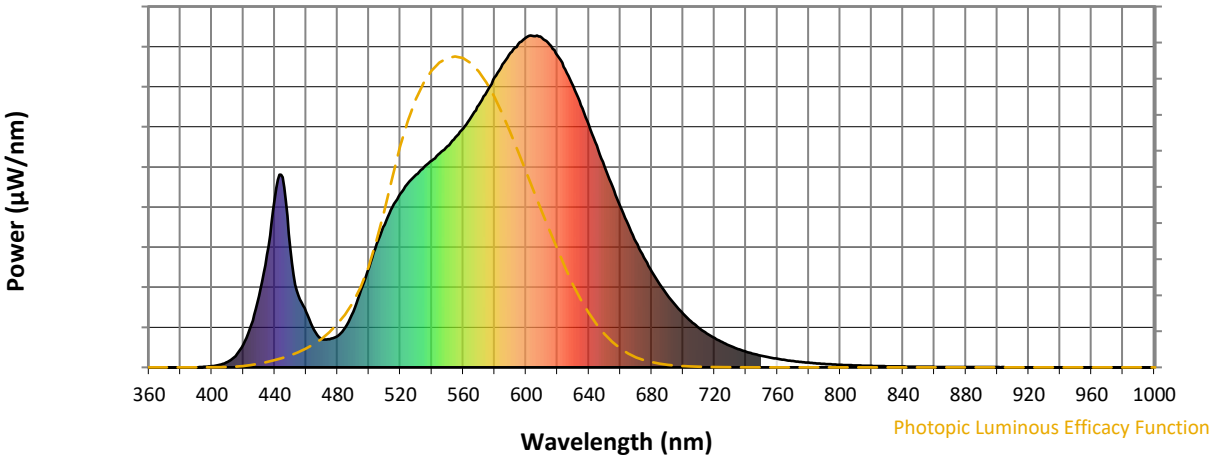


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

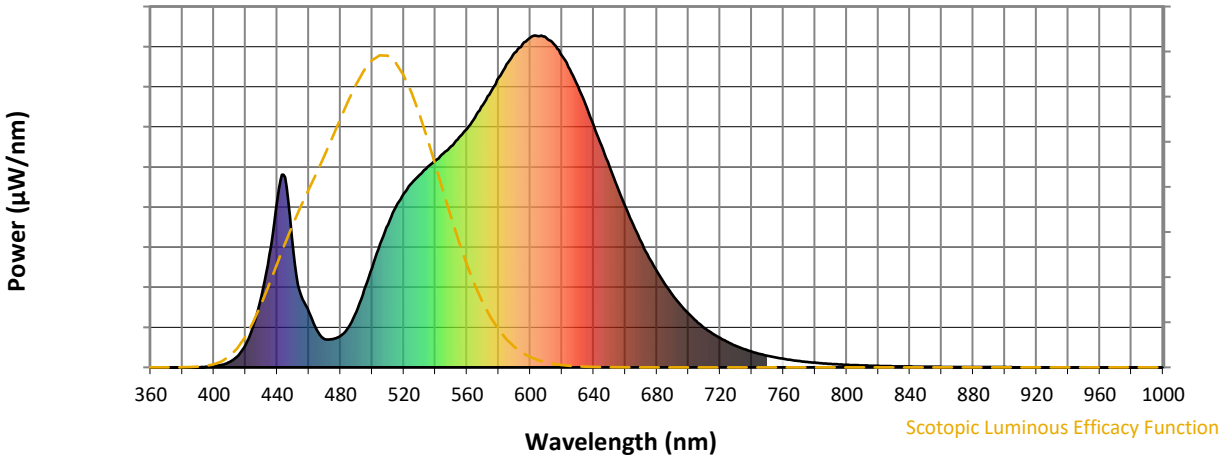


Photopic Lumens: NR

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

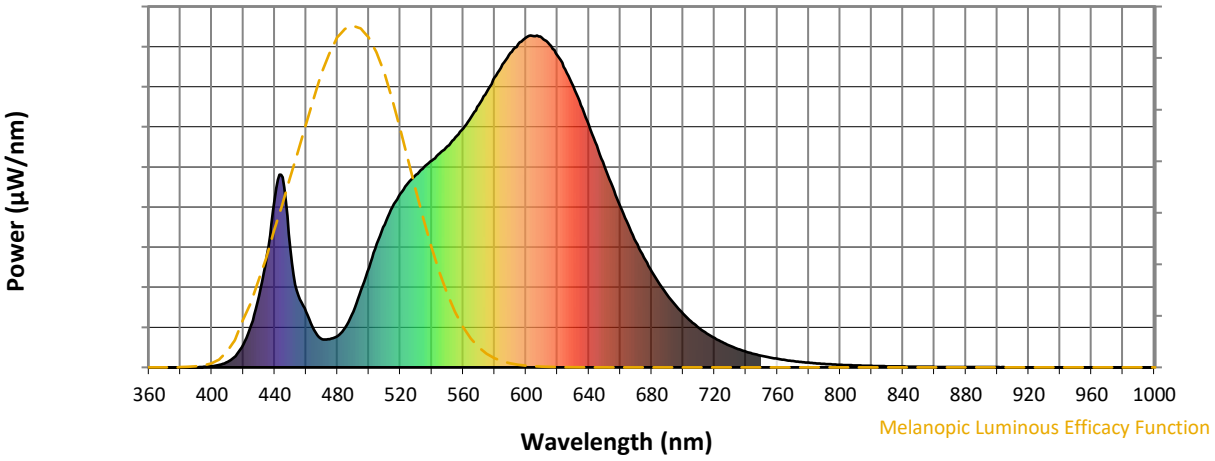


Scotopic Lumens: NR **S/P: 1.27**

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			

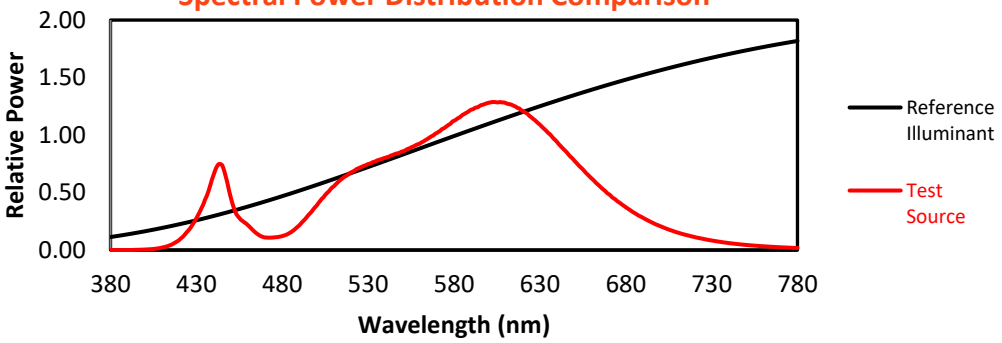
REPORT NUMBER: SP1-2408-195-9

TM-30-18

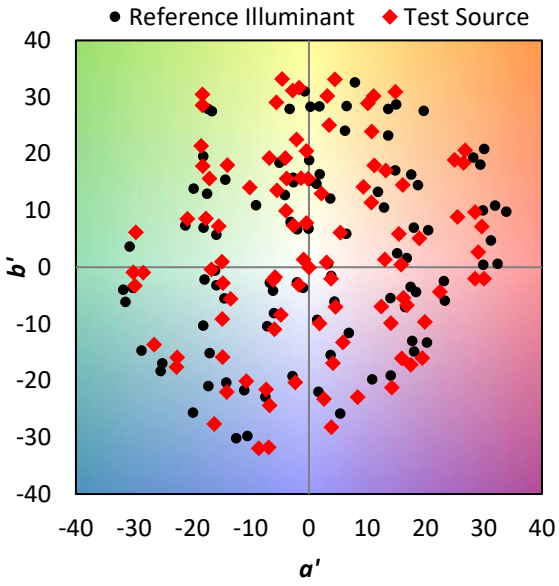
Summary

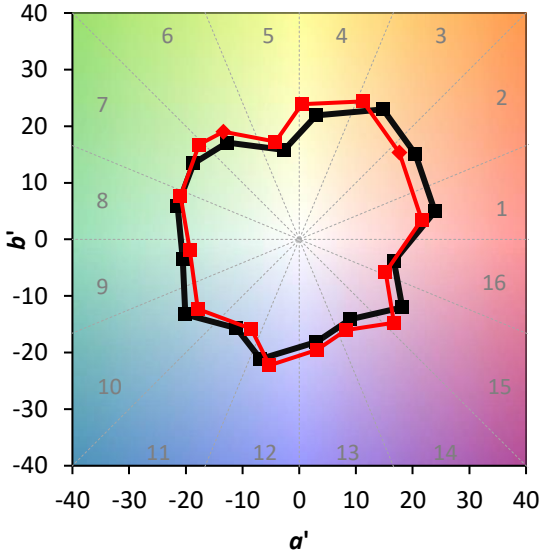
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

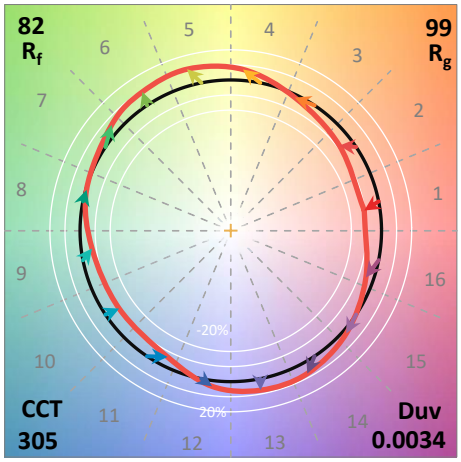
Spectral Power Distribution Comparison

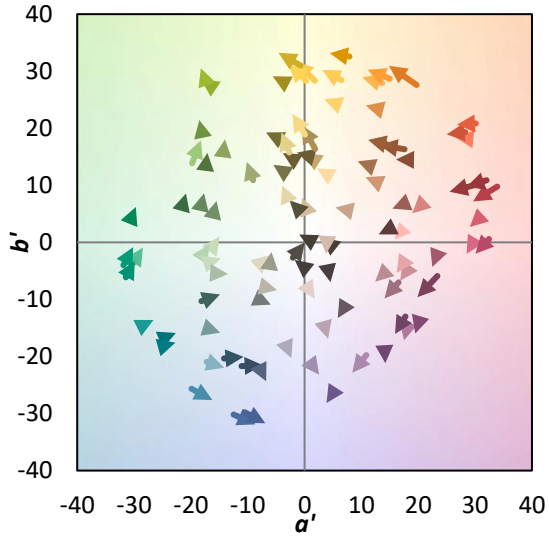


Color Vector Graphics







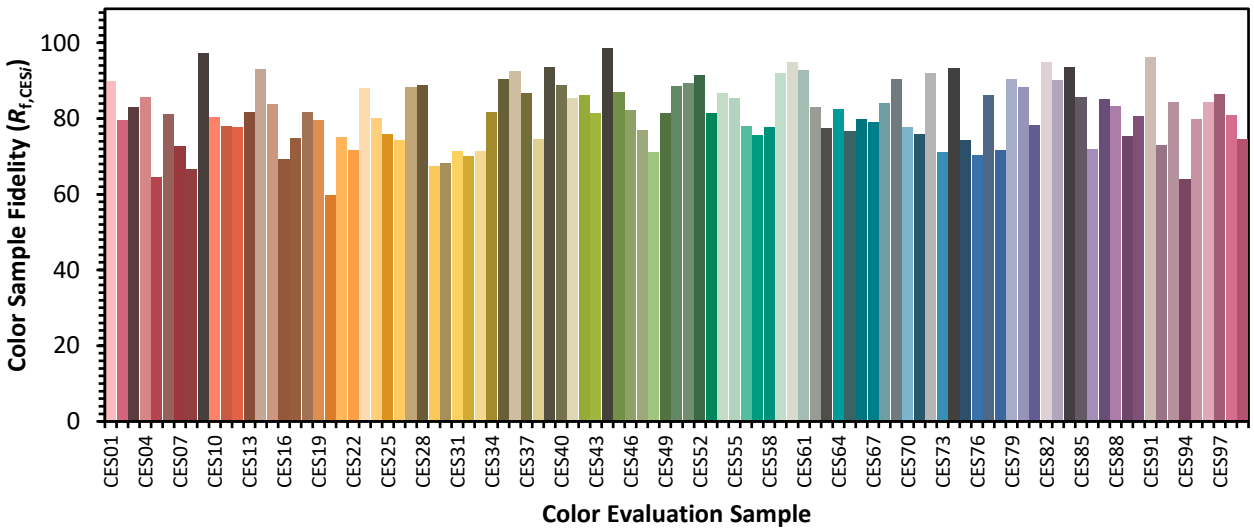


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

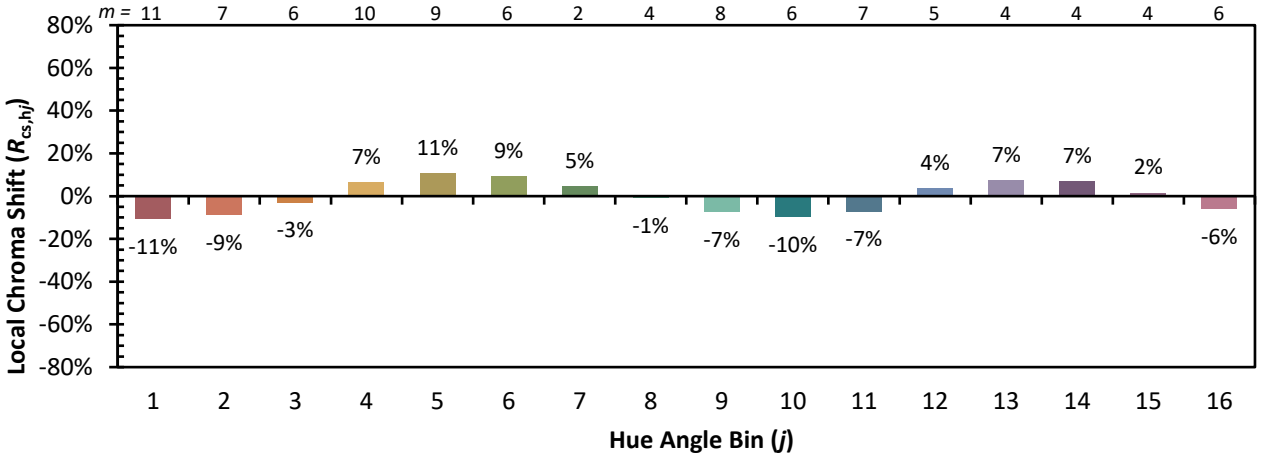
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

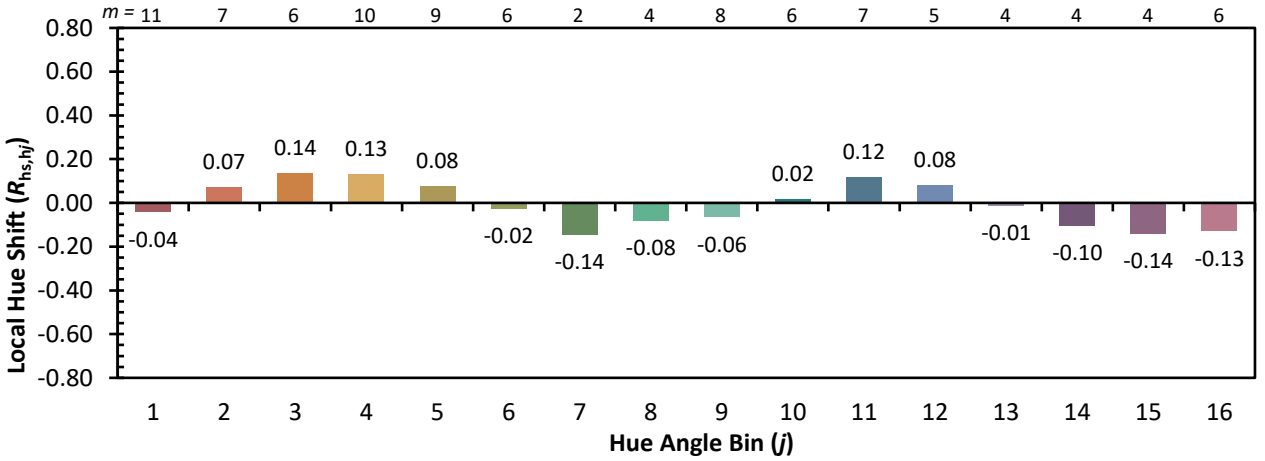


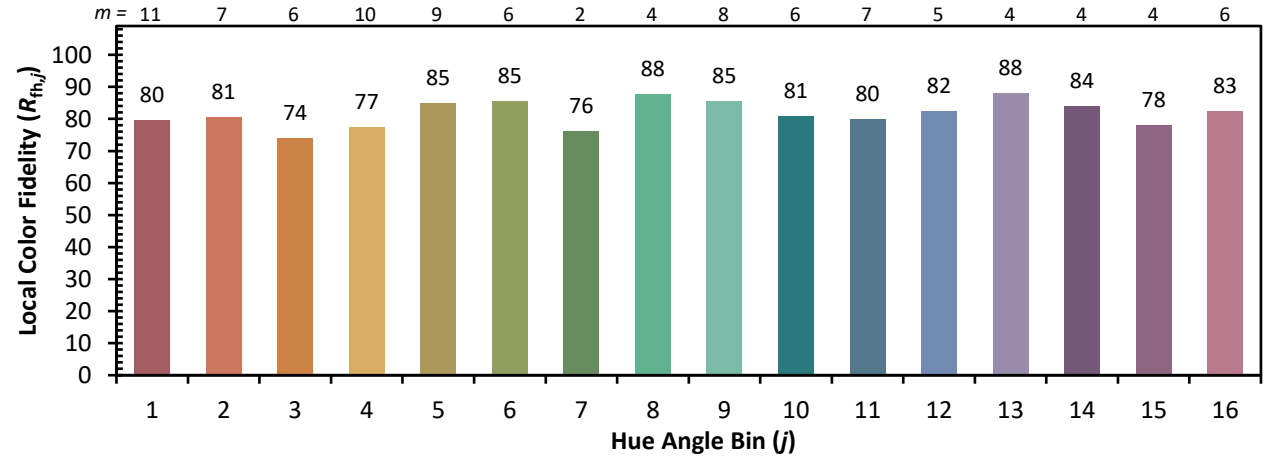
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



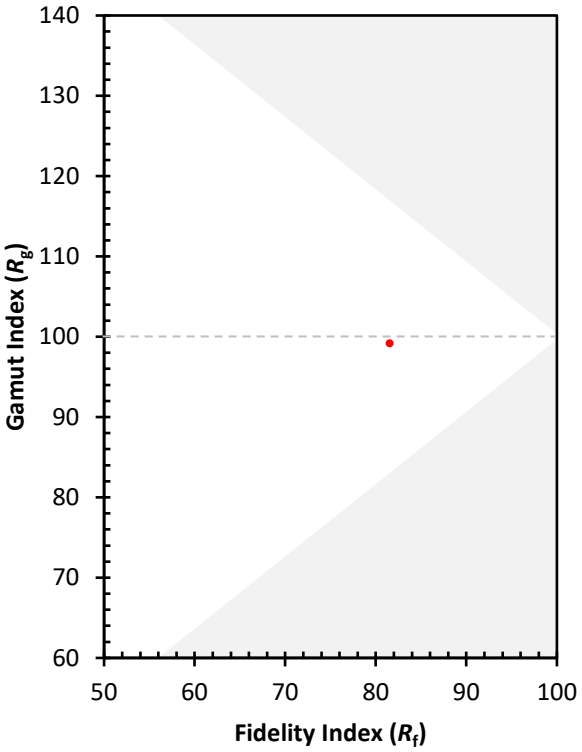


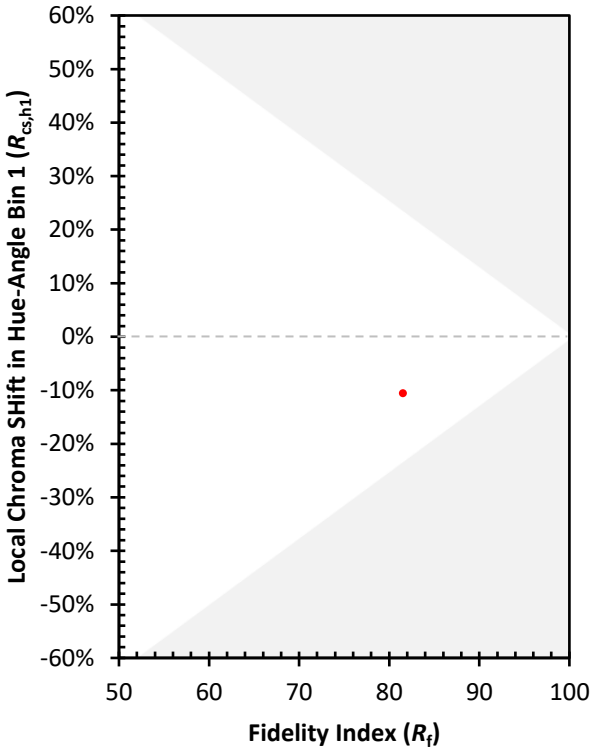


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)