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: P323704

Luminaire Tested: **GLEON-SA0D-830-U-SL3-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:	P323704
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0D-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	52137 lumens
Efficiency:	N/A
Efficacy:	81.5 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	640
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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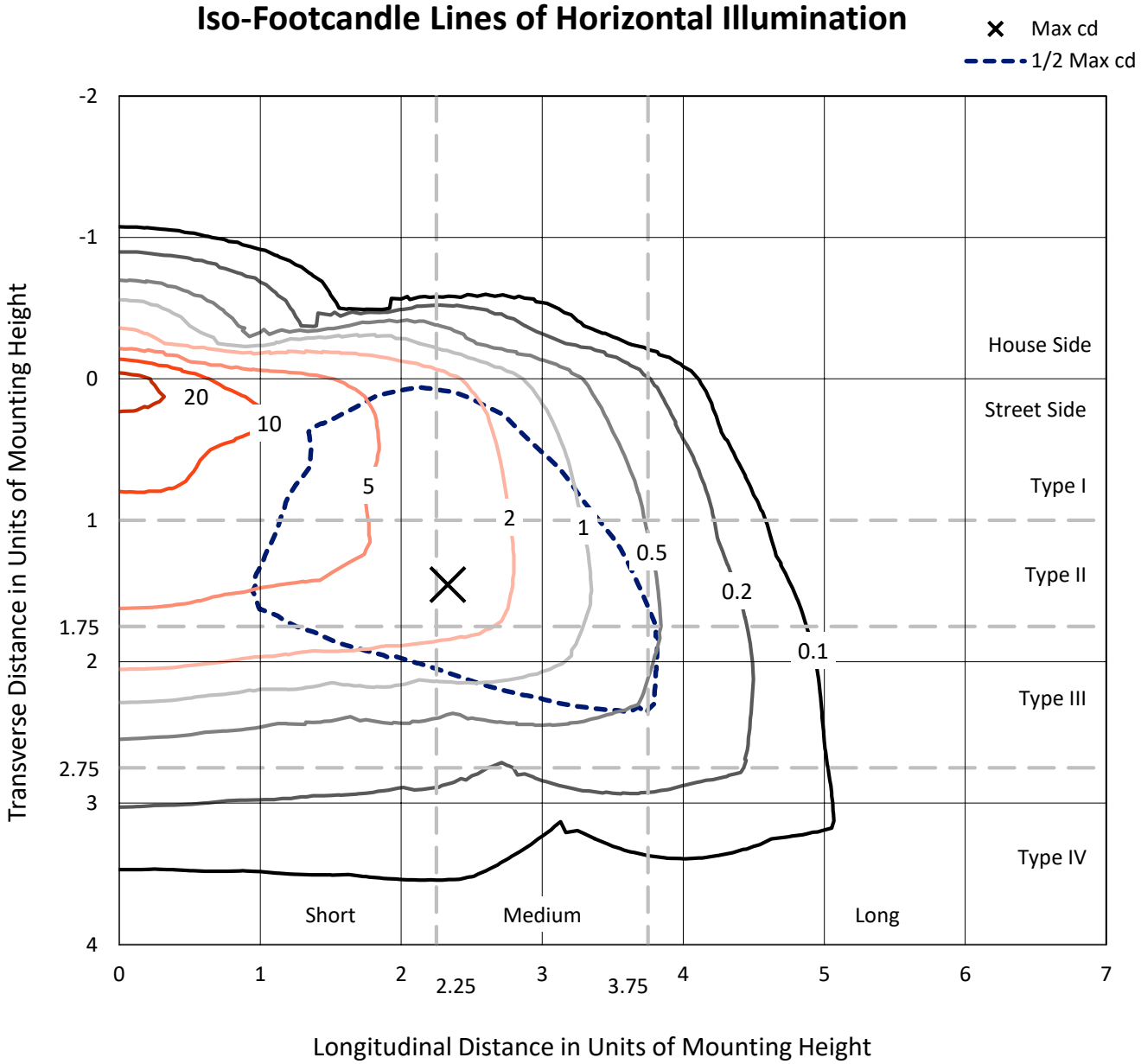
Scaled Data Report

REPORT NUMBER: P323704
CATALOG NUMBER: GLEON-SA0D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



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

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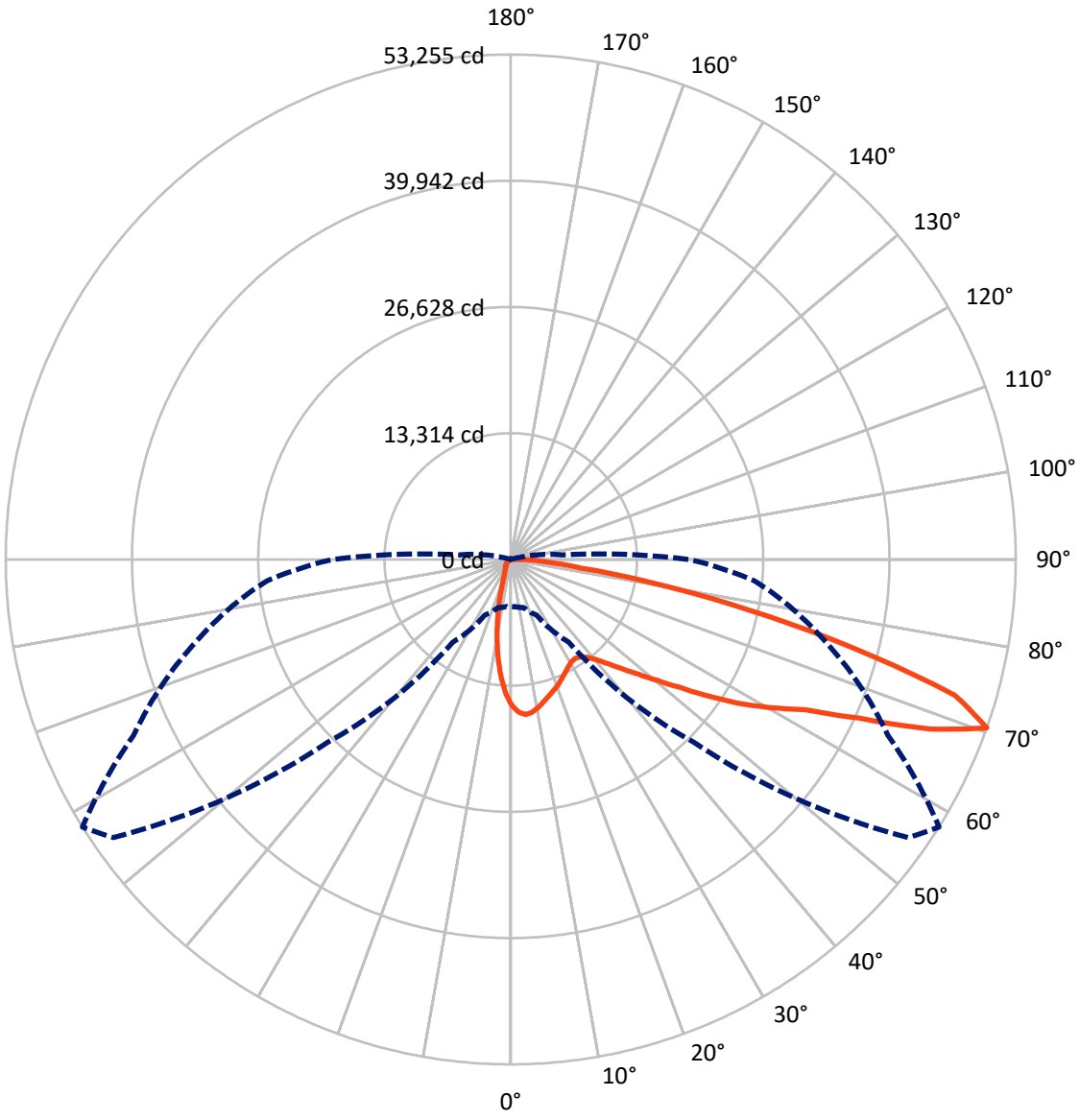
Luminous Intensity Polar Plot



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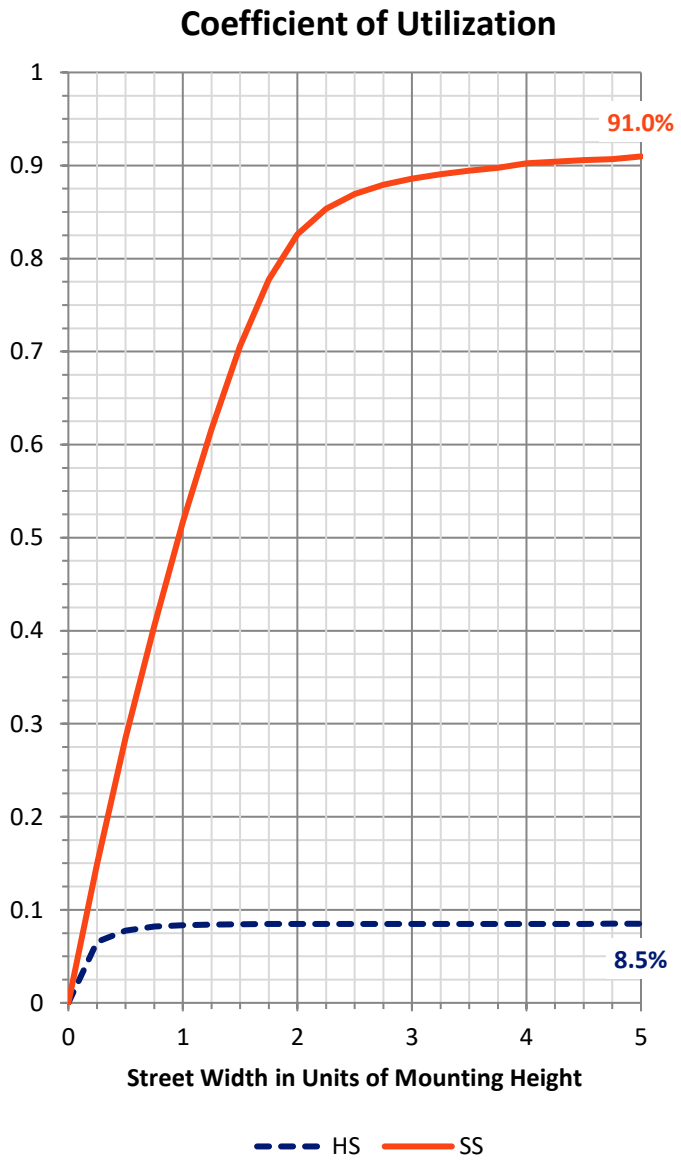
REPORT NUMBER: P323704
CATALOG NUMBER: GLEON-SA0D-830-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4461.8	0.0	4461.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	47675.2	0.0	47675.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	52137.0	0.0	52137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.4	2.4
10°-20°	2643.2	5.1
20°-30°	3474.9	6.7
30°-40°	4602.1	8.8
40°-50°	6878.8	13.2
50°-60°	11019.5	21.1
60°-70°	13890.0	26.6
70°-80°	7492.2	14.4
80°-90°	877.0	1.7
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°	52137.0	100.0
0°-180°	52137.0	100.0



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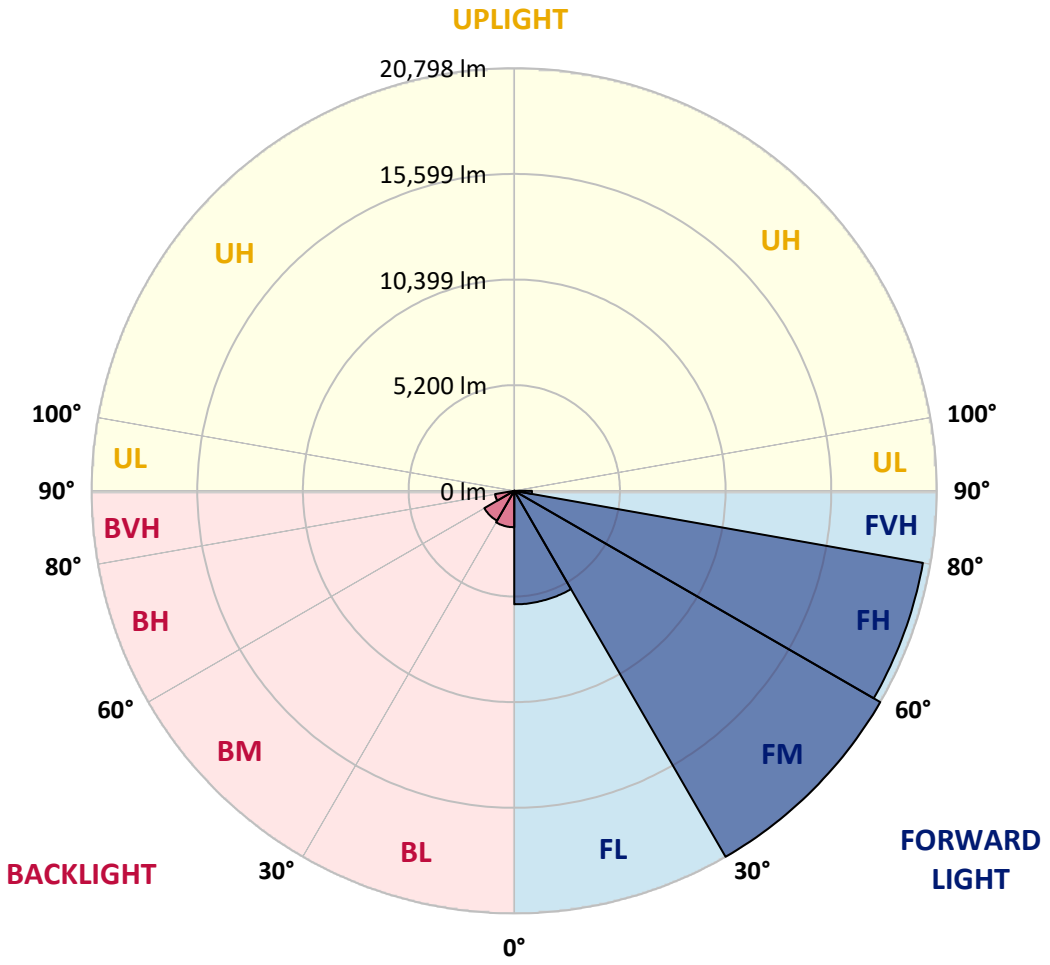
REPORT NUMBER: P323704
CATALOG NUMBER: GLEON-SA0D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5584.9	10.7			
FM	(30°-60°)	20798.3	39.9			
FH	(60°-80°)	20422.6	39.2			G5
FVH	(80°-90°)	869.4	1.7			G5
BL	(0°-30°)	1792.6	3.4	B3/2500		
BM	(30°-60°)	1702.1	3.3	B2/2500		
BH	(60°-80°)	959.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323704
CATALOG NUMBER: GLEON-SA0D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	*15401.0*	15401.0	15401.0	15401.0
2.5°	16677.9	16636.7	16621.6	16595.6	16495.8	16398.3	16205.3	*16151.1*	16029.7	15741.4	15435.7
5°	16690.9	16688.8	16734.3	16723.5	16688.8	16643.3	16504.5	*16433.0*	16227.0	15815.1	15255.8
7.5°	15886.6	15927.8	16029.7	16112.1	16207.5	16331.1	16348.4	*16279.0*	16109.9	15665.5	14924.1
10°	14807.0	14872.0	15015.1	15177.7	15427.0	15674.2	15895.3	*15886.6*	15828.1	15390.2	14525.2
12.5°	13725.2	13801.1	13965.8	14206.5	14559.9	14963.1	15357.7	*15411.9*	15509.4	15143.0	14156.6
15°	12777.8	12842.9	13005.5	13300.3	13738.2	14280.2	14859.0	*14958.8*	15210.2	14950.1	13848.8
17.5°	11973.5	12014.7	12133.9	12461.3	12968.6	13625.5	14377.8	*14572.9*	14947.9	14798.3	13582.1
20°	11412.0	11418.5	11496.6	11726.4	12233.7	12968.6	13879.1	*14158.8*	14670.4	14668.3	13306.8
22.5°	11134.5	11112.8	11128.0	11260.3	11633.1	12342.1	13380.5	*13712.2*	14421.1	14557.7	13027.1
25°	11082.5	11065.1	11021.8	11039.1	11264.6	11793.6	12877.5	*13261.3*	14202.2	14490.5	12784.3
27.5°	11245.1	11262.4	11188.7	11110.7	11128.0	11438.0	12430.9	*12875.4*	14024.4	14490.5	12613.1
30°	11572.4	11581.1	11526.9	11425.0	11288.4	11338.3	12120.9	*12565.4*	13935.5	14590.2	12504.7
32.5°	11934.5	11982.2	11975.7	11893.3	11698.2	11496.6	12047.2	*12452.6*	13929.0	14811.3	12493.8
35°	12383.3	12437.5	12528.5	12511.2	12307.4	11975.7	12298.7	*12617.4*	14056.9	15175.6	12610.9
37.5°	12860.2	12942.6	13137.7	13230.9	13098.7	12723.6	12862.4	*13090.0*	14399.4	15765.2	12907.9
40°	13322.0	13415.2	13770.7	14137.1	14037.4	13651.5	13716.5	*13898.6*	15008.6	16612.9	13471.6
42.5°	13775.1	13913.8	14436.3	15039.0	15158.2	14850.4	14885.1	*15030.3*	15912.7	17779.2	14392.9
45°	14317.1	14473.1	15247.1	15990.7	16309.4	16175.0	16322.4	*16417.8*	17094.2	19320.7	15635.2
47.5°	15112.7	15292.6	16242.2	17089.8	17649.2	17735.9	18032.9	*18095.8*	18587.9	21115.7	17254.6
50°	16664.9	16714.8	17573.3	18342.9	19149.4	19669.7	20007.9	*20055.6*	20395.9	23077.7	19277.3
52.5°	18618.2	18650.8	19136.4	19652.3	20569.4	21631.7	22423.0	*22490.2*	22561.7	24989.8	21274.0
55°	20558.5	20554.2	20875.1	21178.6	22227.9	23771.4	25488.4	*25529.6*	25015.8	26804.4	22800.2
57.5°	21770.4	21887.5	22375.3	22765.5	24231.0	26210.4	28592.9	*28744.7*	27593.5	28148.5	24309.1
60°	21384.5	21440.9	22522.7	23966.5	26726.3	29676.9	31734.3	*31773.3*	29531.6	29490.4	26216.9
62.5°	18219.3	18249.7	19949.4	22925.9	27990.2	34173.2	35523.8	*34888.6*	31760.3	31352.7	28499.7
65°	12487.3	12684.6	14104.6	17783.6	25668.4	36993.7	41390.2	*40338.8*	35157.4	34036.6	30563.6
67.5°	7353.6	7312.5	8014.9	10724.8	18852.4	35120.6	48811.1	*47766.2*	39790.3	35833.8	29958.7
70°	*5023.1*	*4994.9*	*5263.8*	*6493.0*	*10642.4*	*27244.5*	*51146.0*	*53255.4*	*43881.2*	*34624.1*	*25783.3*
72.5°	3585.8	3600.9	3997.7	5044.8	6681.6	15873.6	43983.1	*48975.9*	42600.0	30184.2	19598.1
75°	2434.6	2475.8	3043.8	4138.6	5857.8	8075.6	31211.8	*37230.0*	34689.2	21937.4	11264.6
77.5°	1309.4	1355.0	2024.9	3334.3	5296.3	5610.6	20077.3	*25622.8*	21789.9	9861.9	3264.9
80°	546.3	572.3	947.4	2423.8	4576.5	4927.7	11813.1	*15537.6*	9285.3	1944.6	728.4
82.5°	236.3	249.3	394.6	1446.0	3421.0	4160.3	6254.5	*7475.0*	2814.0	427.1	366.4
85°	45.5	47.7	162.6	765.3	2183.1	2347.9	4054.0	*3973.8*	1263.9	184.3	266.7
87.5°	0.0	0.0	39.0	240.6	641.7	1279.1	2473.6	*2443.3*	429.3	88.9	99.7
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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Scaled Data Report

REPORT NUMBER: P323704
CATALOG NUMBER: GLEON-SA0D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0
2.5°	15279.6	15130.0	14815.7	14427.6	14130.6	13803.3	13543.1	13213.6	13070.5	13077.0	12998.9
5°	14937.1	14629.2	13933.3	13055.3	12378.9	11680.8	11080.3	10482.0	10128.6	10013.7	9905.3
7.5°	14447.1	13959.3	12849.4	11496.6	10351.9	9233.2	8259.8	7403.5	6861.5	6597.0	6499.5
10°	13894.3	13209.2	11602.8	9820.8	8186.1	6672.9	5411.2	4314.2	3876.3	3579.3	3503.4
12.5°	13408.7	12480.8	10384.4	8101.6	6161.3	4335.9	3132.7	2449.8	2152.8	2035.7	2016.2
15°	12951.3	11800.1	9211.6	6545.0	4266.5	2668.7	1992.3	1760.4	1691.0	1671.5	1671.5
17.5°	12519.8	11151.9	8064.7	5012.3	2822.7	1870.9	1649.8	1597.8	1576.1	1573.9	1576.1
20°	12068.9	10503.7	6937.4	3672.5	1970.7	1584.8	1524.1	1495.9	1489.4	1489.4	1489.4
22.5°	11637.5	9855.4	5840.4	2623.2	1580.4	1446.0	1415.7	1396.2	1389.6	1387.5	1383.1
25°	11223.4	9239.7	4769.5	1853.6	1387.5	1324.6	1298.6	1272.6	1253.1	1242.2	1235.7
27.5°	10883.0	8691.3	3772.2	1487.2	1253.1	1198.9	1166.3	1127.3	1079.6	1058.0	1049.3
30°	10612.1	8190.5	2907.2	1255.2	1127.3	1073.1	1023.3	956.1	886.7	849.8	847.7
32.5°	10399.6	7698.3	2207.0	1110.0	1014.6	947.4	875.8	791.3	711.1	669.9	667.7
35°	10295.5	7264.8	1686.7	1003.8	914.9	830.3	741.4	648.2	570.2	531.1	526.8
37.5°	10364.9	6898.4	1315.9	914.9	830.3	732.8	628.7	531.1	461.8	427.1	424.9
40°	10618.6	6664.2	1068.8	839.0	758.8	639.5	526.8	435.8	377.2	349.0	346.9
42.5°	11158.4	6577.5	912.7	776.1	689.4	552.8	437.9	359.9	305.7	286.2	281.8
45°	12060.2	6705.4	806.5	715.4	617.9	470.4	362.0	294.8	247.1	232.0	229.8
47.5°	13261.3	7041.5	730.6	656.9	552.8	396.7	301.3	238.5	201.6	186.4	184.3
50°	14809.2	7574.8	667.7	598.4	492.1	336.0	249.3	188.6	156.1	145.3	145.3
52.5°	16493.7	8210.0	611.4	544.2	431.4	279.7	201.6	145.3	123.6	110.6	110.6
55°	17885.5	8765.0	550.7	503.0	357.7	232.0	153.9	110.6	91.1	84.5	84.5
57.5°	19275.1	9356.8	481.3	431.4	286.2	188.6	117.1	82.4	67.2	62.9	62.9
60°	21076.7	10080.9	414.1	351.2	225.5	143.1	86.7	58.5	49.9	47.7	47.7
62.5°	23058.2	10505.8	353.4	281.8	175.6	106.2	62.9	39.0	36.9	36.9	34.7
65°	24270.1	9905.3	297.0	225.5	136.6	80.2	41.2	28.2	32.5	30.4	26.0
67.5°	22724.3	7754.7	242.8	175.6	106.2	60.7	26.0	19.5	34.7	28.2	21.7
70°	*18815.5*	*5428.5*	*188.6*	*123.6*	*84.5*	*52.0*	*17.3*	*13.0*	*36.9*	*28.2*	*17.3*
72.5°	14080.7	3633.5	149.6	82.4	62.9	45.5	15.2	6.5	32.5	23.8	15.2
75°	7694.0	1463.4	119.2	52.0	39.0	32.5	10.8	4.3	21.7	17.3	10.8
77.5°	2024.9	385.9	86.7	34.7	21.7	13.0	6.5	2.2	10.8	8.7	4.3
80°	516.0	149.6	56.4	23.8	15.2	6.5	0.0	0.0	2.2	0.0	0.0
82.5°	275.3	62.9	34.7	17.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	208.1	41.2	19.5	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	80.2	13.0	6.5	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

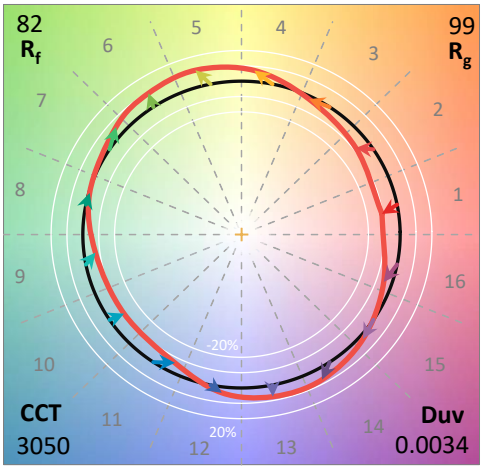
Test Information

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

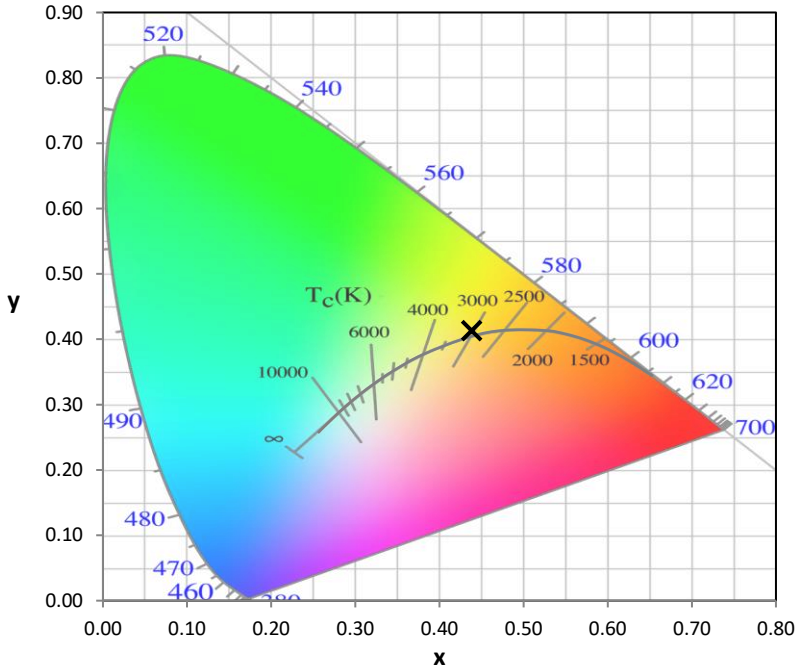
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

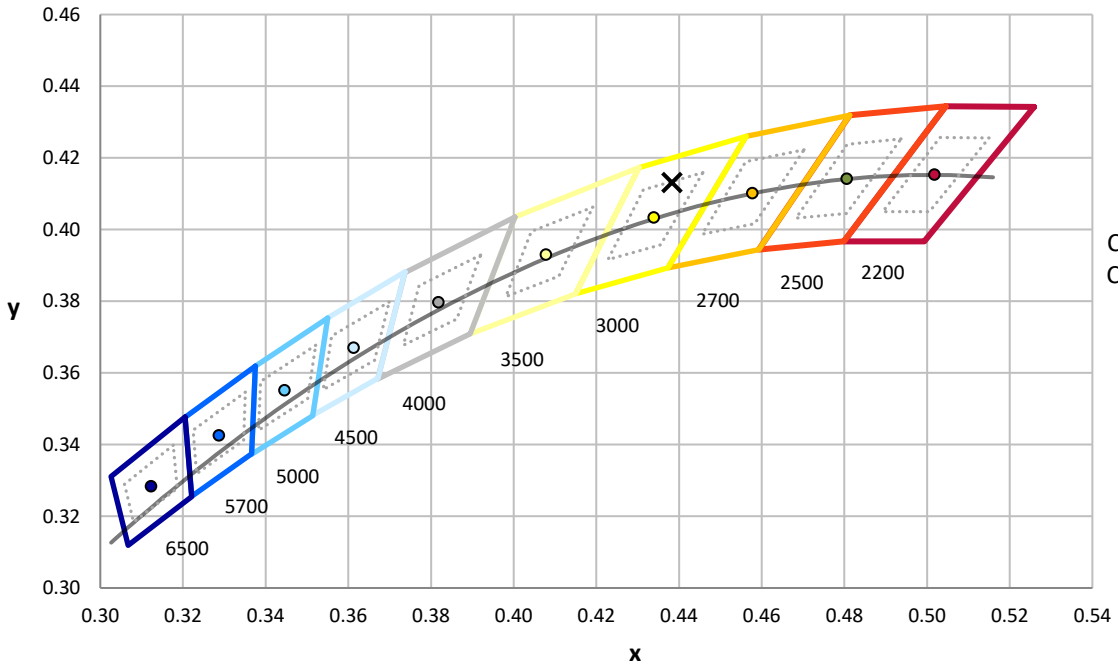
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

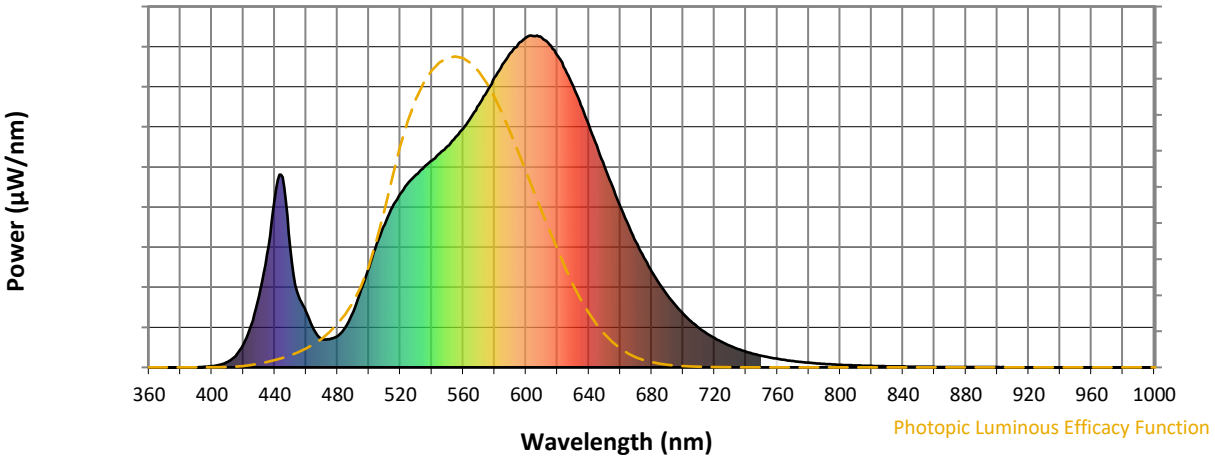


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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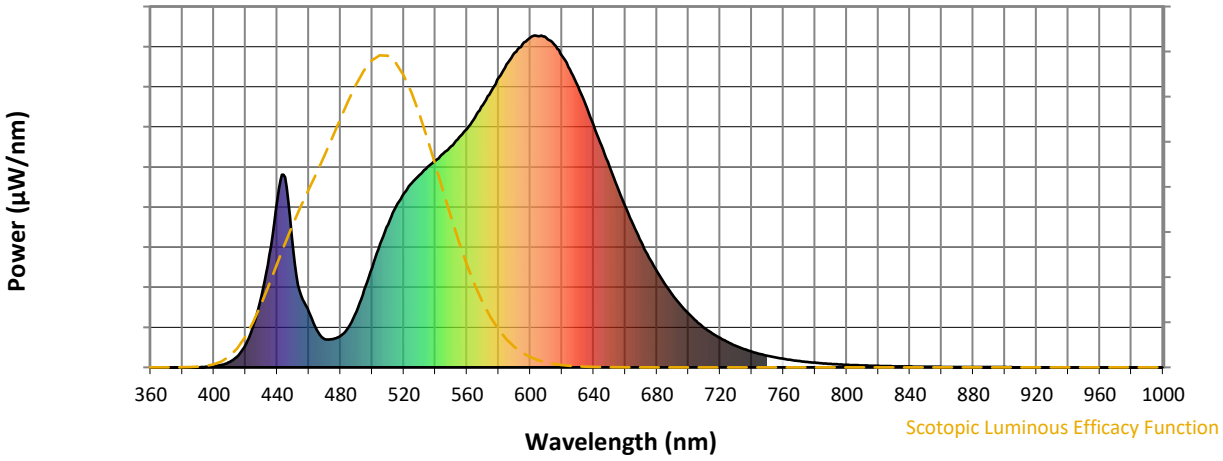
Scotopic Flux vs. Wavelength



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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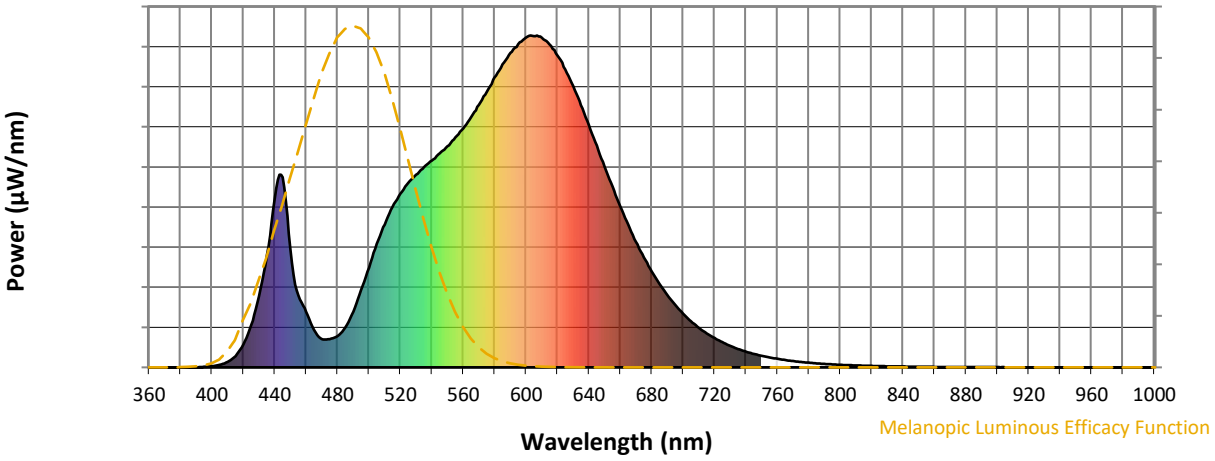
Melanopic Flux vs. Wavelength



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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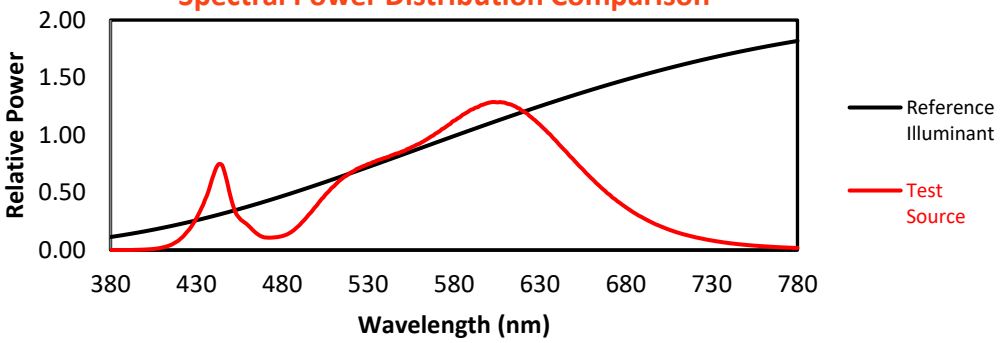
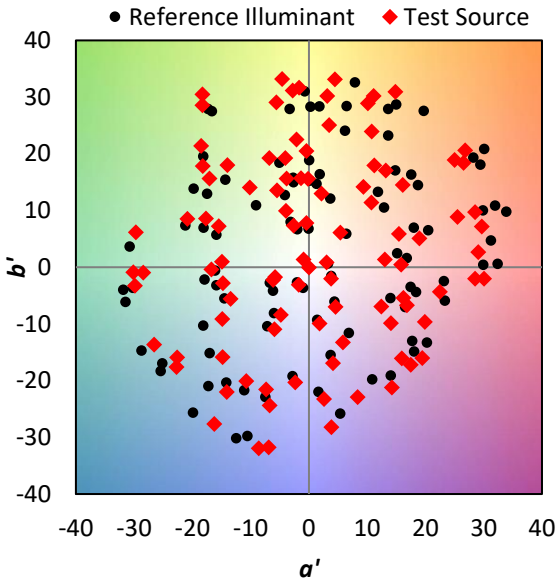
Summary

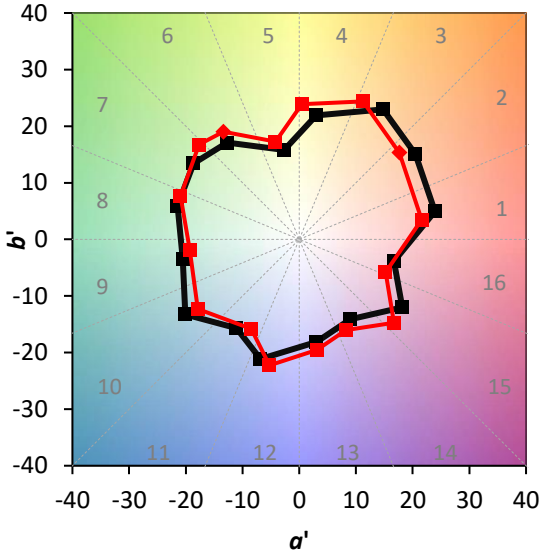
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

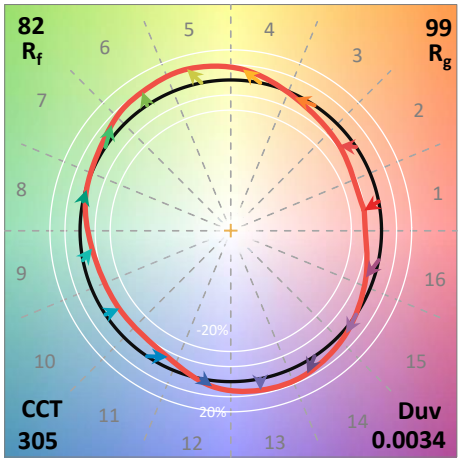
Spectral Power Distribution Comparison

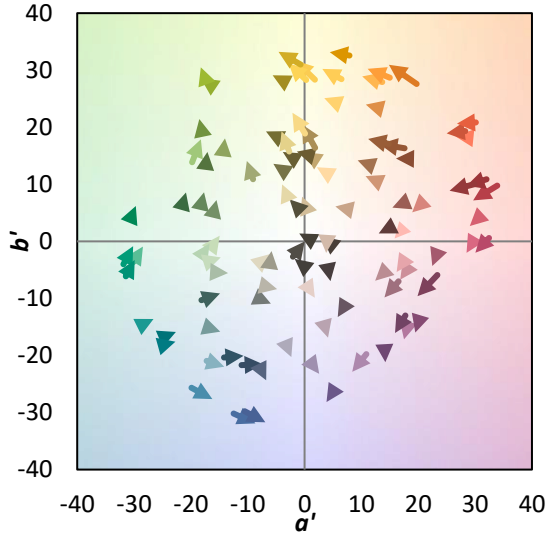


Color Vector Graphics









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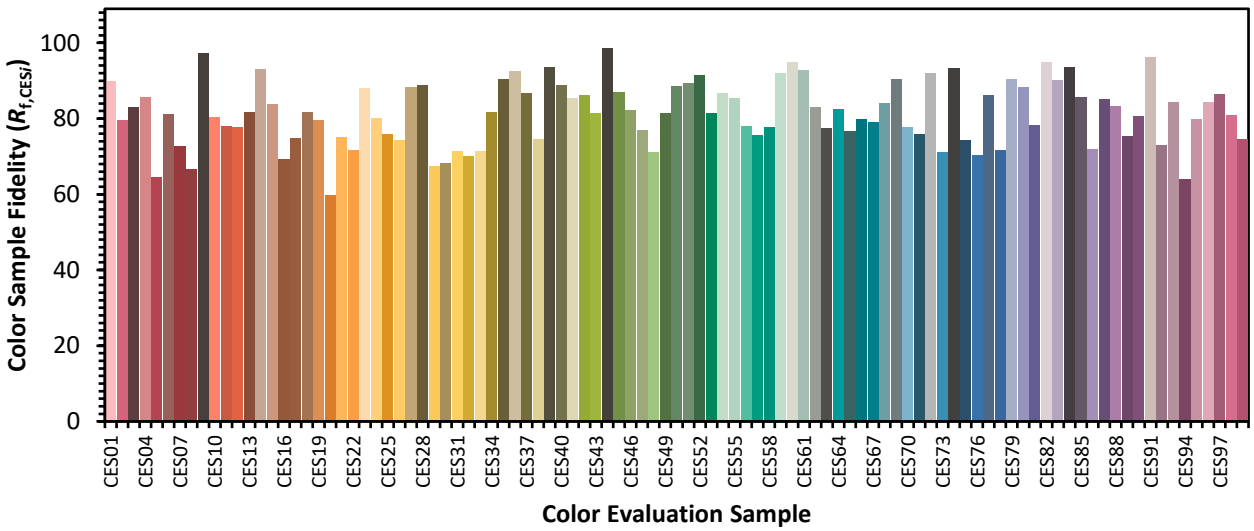
Individual Sample Fidelity Index ($R_{f,i}$)

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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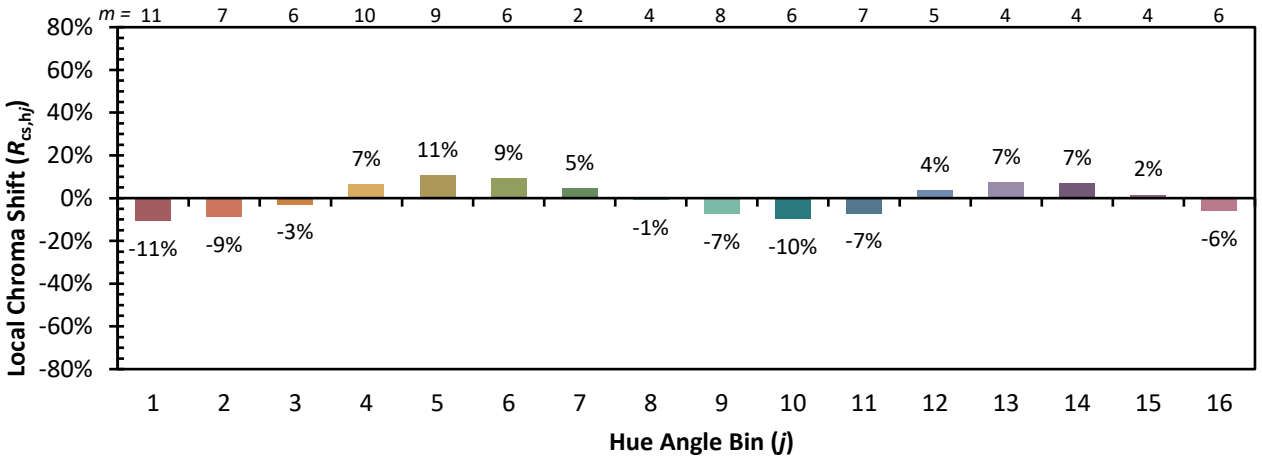
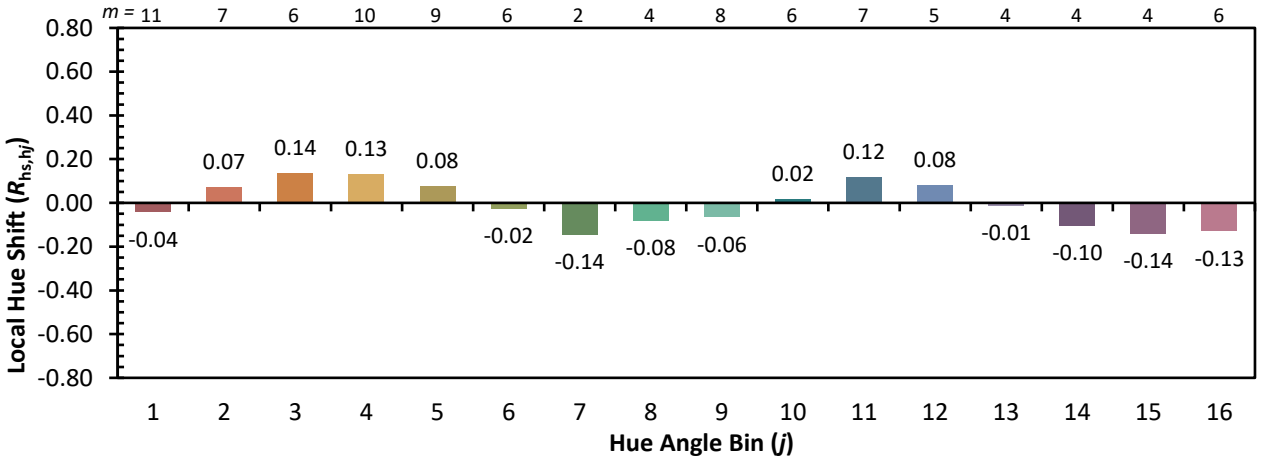
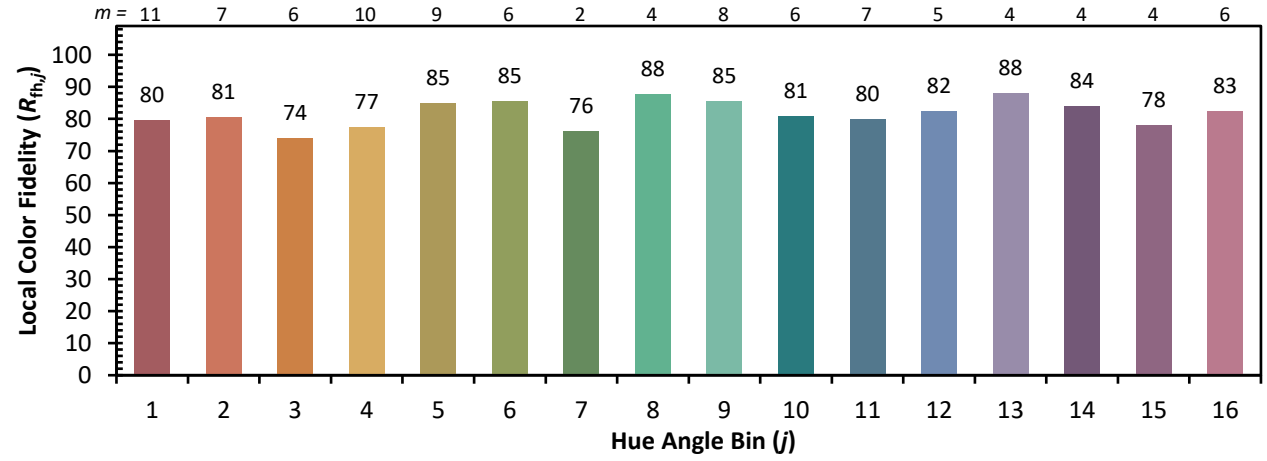
Color Rendition by Hue-Angle Bin







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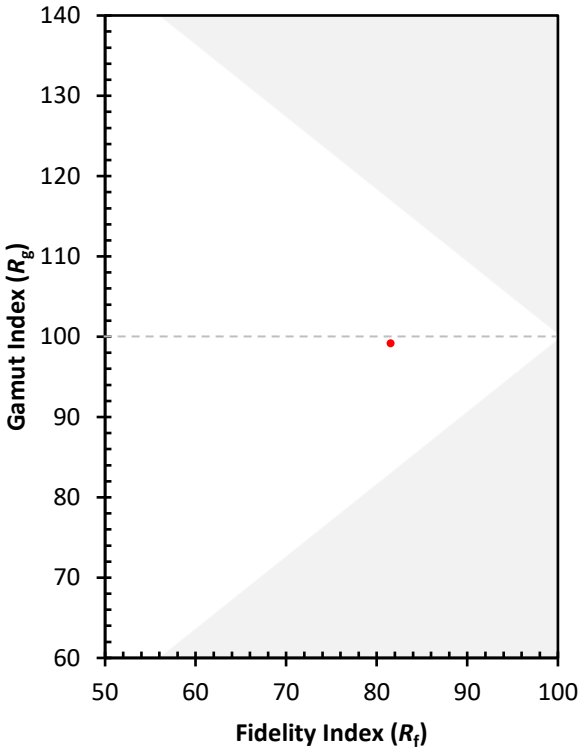
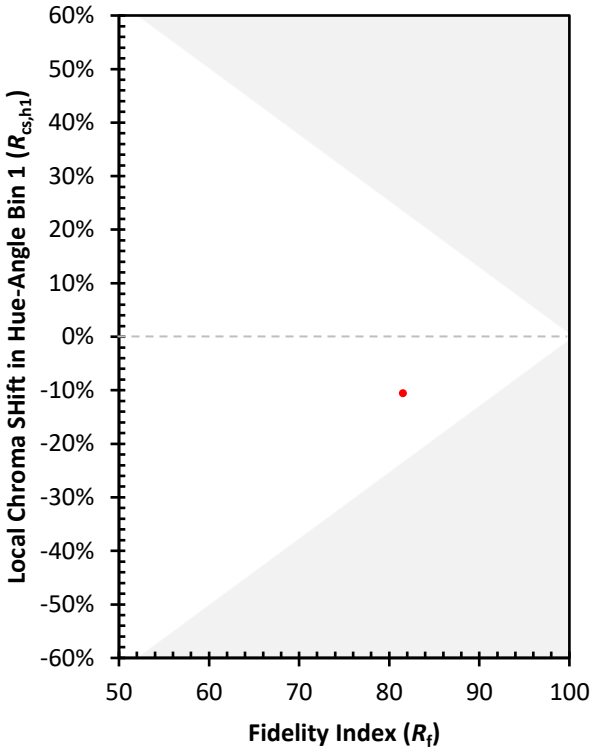
Measure Comparisons





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