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: P317585

Luminaire Tested: **GLEON-SA1A-830-U-T2R**

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:	P317585
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1A-830-U-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4039 lumens
Efficiency:	N/A
Efficacy:	118.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	34
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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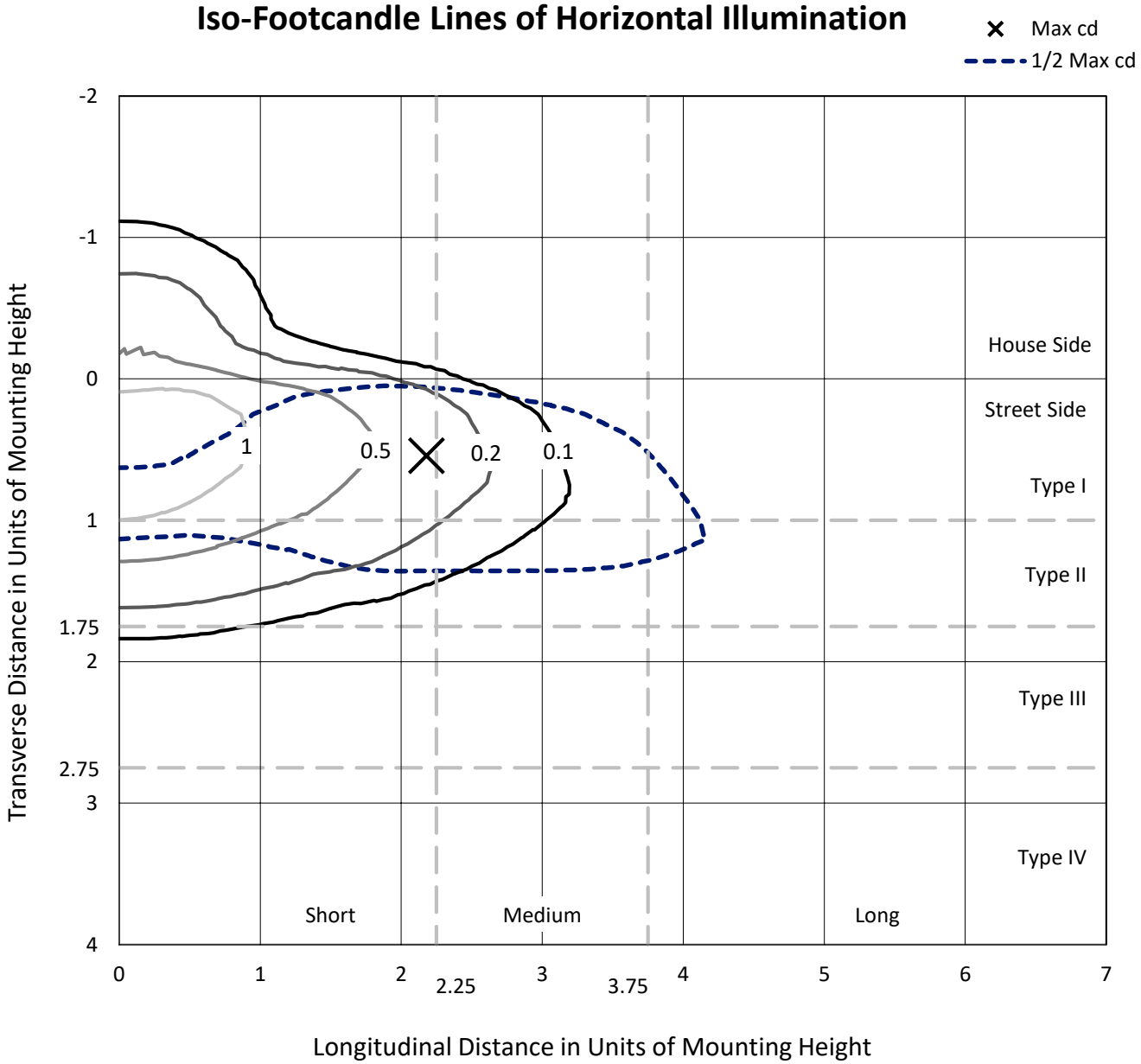
REPORT NUMBER: P317585
CATALOG NUMBER: GLEON-SA1A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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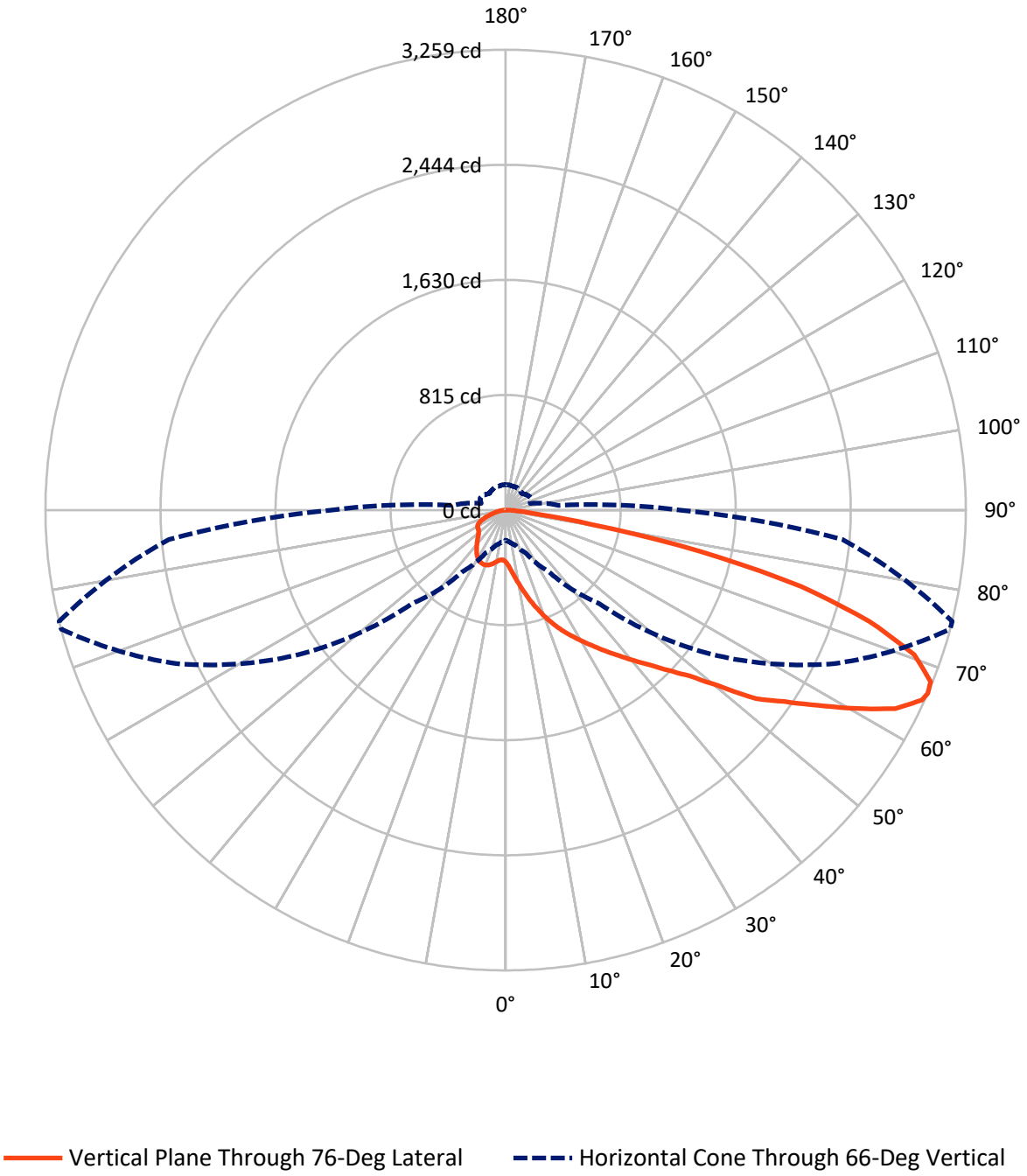
Luminous Intensity Polar Plot



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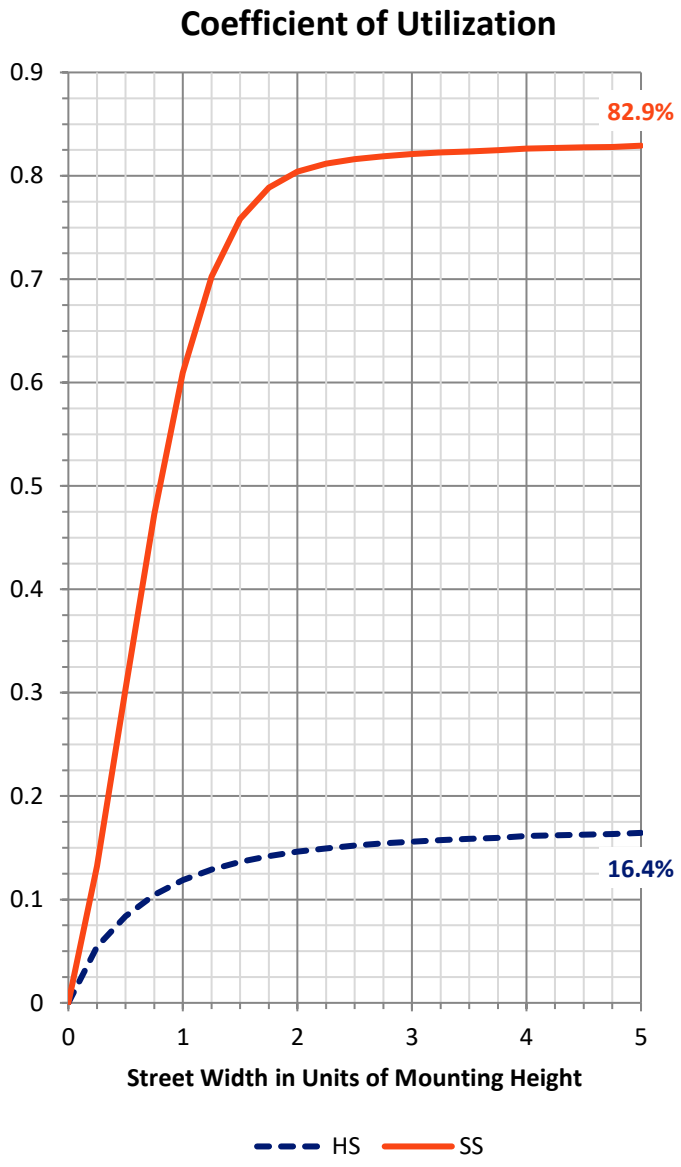
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.6	0.0	679.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3359.4	0.0	3359.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	4039.0	0.0	4039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.1
10°-20°	176.1	4.4
20°-30°	342.3	8.5
30°-40°	558.7	13.8
40°-50°	763.3	18.9
50°-60°	889.1	22.0
60°-70°	797.1	19.7
70°-80°	402.8	10.0
80°-90°	65.0	1.6
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°	4039.0	100.0
0°-180°	4039.0	100.0



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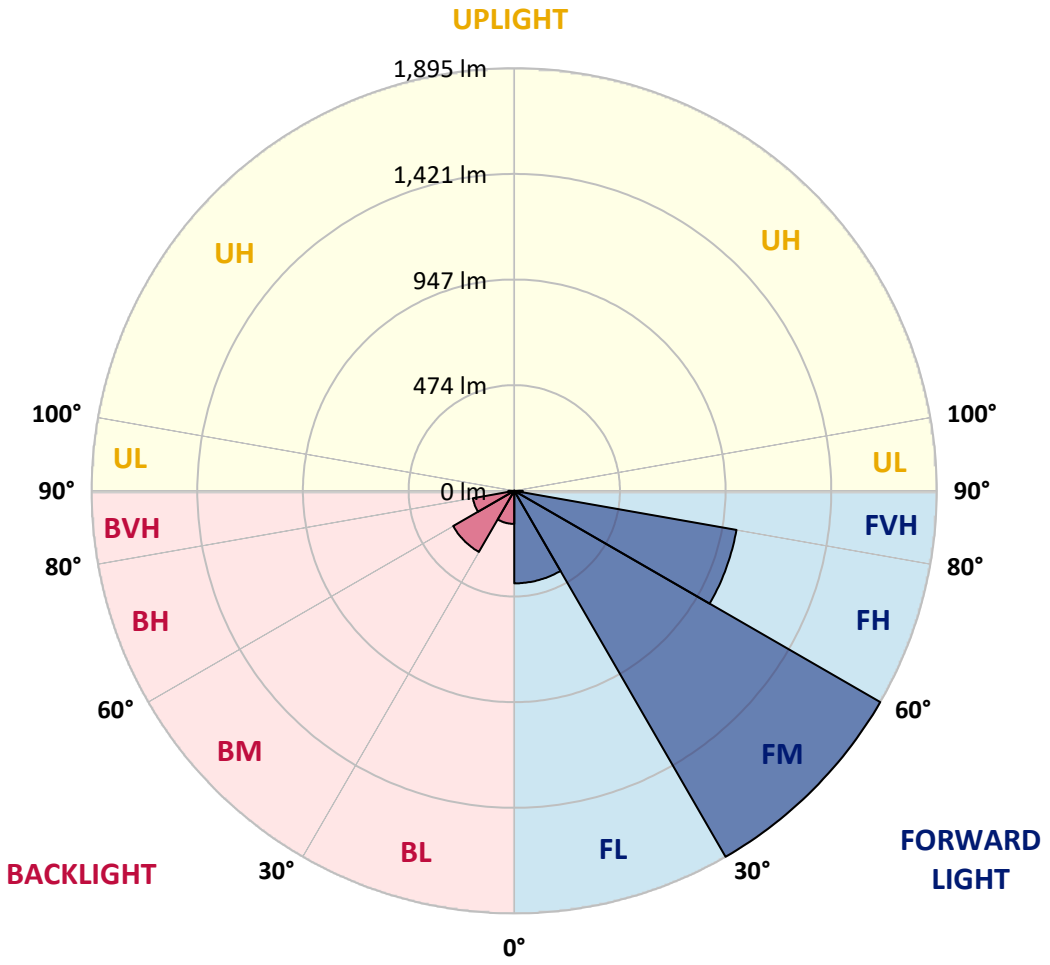
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	414.8	10.3			
FM	(30°-60°)	1894.6	46.9			
FH	(60°-80°)	1011.6	25.0			G1/1800
FVH	(80°-90°)	38.4	1.0			G1/100
BL	(0°-30°)	148.2	3.7	B1/500		
BM	(30°-60°)	316.5	7.8	B1/1000		
BH	(60°-80°)	188.3	4.7	B1/500		G1/500
BVH	(80°-90°)	26.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P317585
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	*368.9*	368.9
2.5°	489.7	482.2	481.6	470.7	468.3	447.6	432.3	416.4	398.3	*394.8*	380.5
5°	629.0	628.3	618.8	601.1	587.3	551.9	516.9	479.9	439.3	*432.7*	400.7
7.5°	754.3	753.2	745.9	726.9	706.9	663.4	613.5	556.7	490.9	*481.2*	428.0
10°	849.5	849.0	846.6	832.6	815.6	773.9	718.8	641.3	550.8	*537.5*	462.1
12.5°	923.0	923.8	925.4	920.5	912.4	876.9	820.4	731.0	614.7	*601.5*	500.1
15°	972.7	975.2	983.7	990.7	994.9	973.1	918.4	822.7	686.3	*670.5*	542.2
17.5°	997.8	1000.6	1015.2	1036.4	1055.8	1053.6	1010.2	910.2	755.0	*739.8*	587.4
20°	1019.5	1021.5	1038.0	1063.4	1097.8	1113.0	1088.6	994.4	830.3	*812.2*	635.4
22.5°	1082.3	1084.9	1089.8	1104.2	1134.7	1162.6	1150.8	1074.1	899.2	*882.4*	680.9
25°	1203.5	1206.7	1196.0	1183.8	1189.5	1209.0	1211.2	1146.7	969.2	*950.1*	729.9
27.5°	1349.5	1354.1	1335.8	1304.4	1277.0	1269.5	1266.8	1206.2	1035.9	*1013.9*	778.3
30°	1492.5	1500.4	1476.6	1435.9	1385.6	1350.2	1324.0	1264.5	1101.8	*1080.6*	824.0
32.5°	1632.3	1629.1	1594.7	1554.9	1496.0	1451.7	1388.3	1327.0	1175.8	*1151.5*	869.3
35°	1728.0	1729.1	1697.1	1650.0	1593.7	1559.7	1474.4	1394.5	1251.4	*1229.0*	920.9
37.5°	1809.4	1804.4	1768.2	1724.1	1675.7	1661.2	1575.2	1468.8	1333.2	*1308.8*	975.7
40°	1836.6	1830.7	1807.0	1775.3	1736.5	1735.2	1686.4	1553.0	1425.8	*1401.6*	1037.6
42.5°	1820.1	1812.6	1802.8	1794.2	1782.3	1787.8	1790.9	1651.7	1527.5	*1500.5*	1109.2
45°	1759.4	1748.0	1754.9	1773.6	1799.6	1830.5	1885.3	1761.0	1641.5	*1618.8*	1193.2
47.5°	1666.0	1655.7	1677.1	1717.3	1787.8	1866.2	1974.5	1881.7	1777.5	*1755.0*	1312.9
50°	1534.6	1537.7	1568.2	1641.3	1747.9	1882.7	2084.5	2041.4	1975.2	*1954.2*	1476.2
52.5°	1319.1	1319.6	1405.8	1525.7	1677.1	1874.2	2145.5	2245.6	2245.2	*2219.8*	1631.7
55°	1118.9	1131.1	1199.2	1358.7	1562.5	1840.1	2188.2	2344.9	2422.5	*2392.7*	1776.7
57.5°	923.4	930.5	995.1	1155.2	1398.9	1749.5	2231.9	2464.0	2626.8	*2608.0*	1956.8
60°	701.0	711.9	778.7	926.7	1189.6	1588.7	2236.0	2588.4	2871.0	*2852.1*	2158.0
62.5°	455.0	473.9	536.4	675.0	936.5	1357.3	2140.6	2669.7	3102.5	*3095.7*	2336.5
65°	261.5	275.7	319.2	426.2	646.1	1066.9	1913.6	2638.5	3244.9	*3241.1*	2403.3
66°	*213.6*	*222.5*	*255.9*	*333.1*	*533.1*	*936.9*	*1781.7*	*2572.5*	*3259.1*	*3259.2*	*2395.6*
67.5°	170.9	174.8	189.8	238.5	393.4	742.6	1546.0	2427.0	3241.5	*3246.3*	2346.1
70°	141.4	143.4	148.1	159.9	214.7	447.8	1097.4	2049.0	3065.3	*3069.0*	2152.9
72.5°	126.8	128.1	129.9	131.5	151.5	250.2	670.2	1639.1	2687.5	*2692.3*	1858.5
75°	114.9	115.6	115.3	115.5	127.1	159.5	346.4	1223.8	2173.1	*2163.5*	1423.7
77.5°	100.9	101.6	100.2	100.5	112.4	122.6	172.4	856.7	1466.5	*1398.8*	802.1
80°	85.3	85.8	85.3	86.2	97.9	92.6	100.2	482.0	648.4	*613.3*	285.2
82.5°	64.4	66.8	68.4	72.3	80.6	65.8	67.1	187.7	197.5	*188.0*	87.5
85°	28.2	34.4	51.6	55.3	60.6	39.5	44.0	76.5	80.4	*77.9*	31.8
87.5°	7.4	8.1	25.5	32.1	33.6	17.8	22.9	34.8	36.7	*34.8*	10.6
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: P317585
CATALOG NUMBER: GLEON-SA1A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9
2.5°	373.0	366.2	354.2	343.5	335.4	329.9	324.4	321.7	320.0	318.4	318.7
5°	384.9	371.3	350.6	335.9	327.7	322.5	319.8	318.7	318.0	316.3	316.3
7.5°	402.9	383.7	355.1	340.1	333.6	329.6	328.0	327.4	326.6	324.7	325.0
10°	425.5	398.6	364.6	349.9	344.0	339.6	337.3	336.5	335.0	332.8	333.1
12.5°	452.1	417.1	377.1	361.7	354.6	348.7	344.9	342.5	339.9	337.0	337.2
15°	481.2	437.3	390.5	372.3	362.5	354.3	348.1	344.2	340.1	336.5	336.4
17.5°	510.6	456.7	400.8	378.0	364.9	354.0	345.7	339.5	334.4	330.0	329.6
20°	542.4	474.3	406.6	377.5	360.5	347.6	336.5	328.8	323.2	318.8	318.1
22.5°	574.8	490.8	407.5	371.9	350.8	335.0	323.3	314.8	309.1	304.5	302.9
25°	604.4	503.5	403.5	361.0	337.2	320.2	308.8	300.2	295.5	290.1	288.5
27.5°	631.4	512.4	395.6	347.2	322.0	305.2	294.5	287.1	282.1	277.9	276.6
30°	655.7	517.2	382.6	330.7	306.3	291.1	282.1	277.0	272.6	267.4	266.4
32.5°	678.7	517.2	365.8	312.8	290.8	278.6	273.3	270.1	265.2	260.1	258.7
35°	701.8	514.1	346.1	294.0	276.6	269.7	269.4	265.7	258.2	251.3	249.6
37.5°	726.0	507.6	323.9	276.4	264.9	265.7	268.1	259.8	249.1	239.4	236.8
40°	753.5	498.7	300.8	261.2	255.2	264.0	264.4	251.3	230.5	221.6	219.3
42.5°	785.7	489.8	279.4	247.8	247.5	258.6	257.4	233.0	220.5	216.0	214.7
45°	828.1	484.7	259.2	235.0	241.5	250.0	245.4	222.8	217.6	215.0	213.9
47.5°	894.8	487.3	240.5	224.9	235.4	241.3	223.2	218.7	215.0	211.8	210.8
50°	978.5	485.8	225.4	217.9	228.6	232.3	213.2	213.4	211.4	207.9	206.2
52.5°	1041.4	474.0	215.7	213.9	222.5	216.2	206.9	208.1	207.2	202.0	200.2
55°	1102.2	463.9	210.8	212.4	218.2	196.2	199.5	202.5	201.6	196.5	195.7
57.5°	1177.7	462.0	207.7	212.8	214.5	186.2	192.4	196.4	195.7	193.5	193.1
60°	1270.3	462.5	205.0	213.5	210.3	178.8	185.7	190.7	191.1	190.7	190.5
62.5°	1321.1	447.6	198.1	211.6	203.1	172.4	178.7	186.1	186.2	187.0	186.9
65°	1278.0	402.9	185.4	204.9	190.9	167.0	172.6	180.7	178.7	182.4	182.4
66°	*1236.0*	*377.1*	*179.1*	*200.5*	*185.7*	*165.0*	*170.7*	*178.0*	*175.4*	*180.4*	*180.4*
67.5°	1150.3	333.6	167.7	191.1	178.3	162.1	168.5	173.5	169.9	177.4	176.9
70°	993.7	258.1	144.8	170.0	166.1	157.8	165.5	164.4	159.2	170.7	168.5
72.5°	837.8	196.1	116.3	142.3	147.5	152.5	161.3	152.9	146.3	154.4	149.6
75°	650.1	147.4	91.9	110.7	124.6	144.1	156.2	139.6	130.1	129.3	126.7
77.5°	351.4	101.2	72.8	84.5	99.0	133.7	152.8	125.3	111.1	107.8	105.7
80°	139.2	65.8	52.9	64.0	69.2	118.6	144.5	108.7	91.6	88.3	85.2
82.5°	57.5	38.9	34.1	42.9	45.1	101.5	129.7	89.1	70.8	97.9	103.9
85°	24.7	21.4	20.3	22.2	25.5	71.2	103.3	68.0	76.4	68.1	54.2
87.5°	7.4	9.0	8.6	8.5	9.3	17.0	55.0	37.8	56.1	21.3	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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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

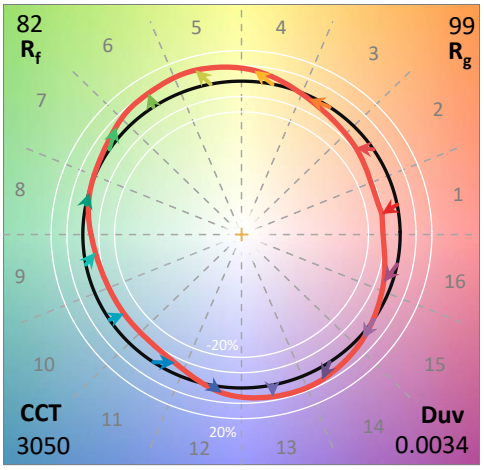
Test Information

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

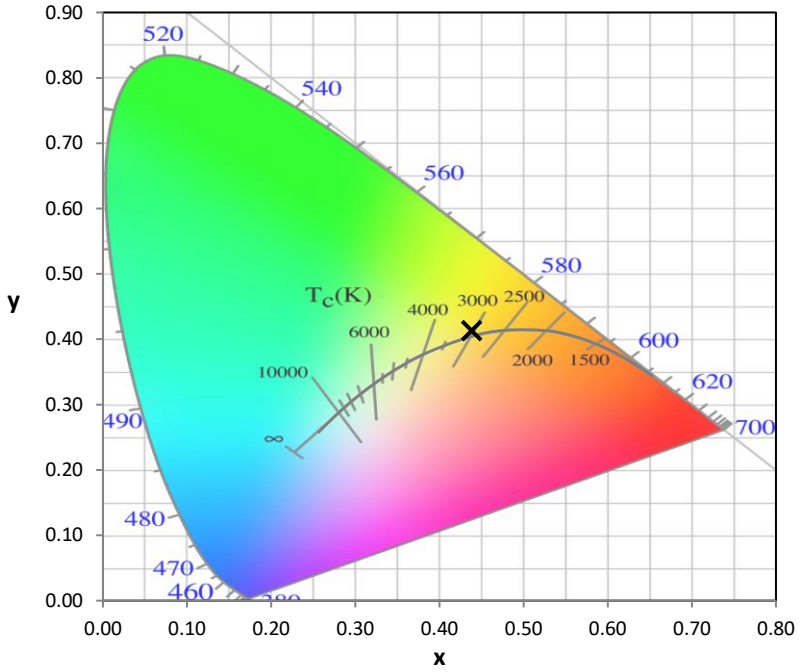
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

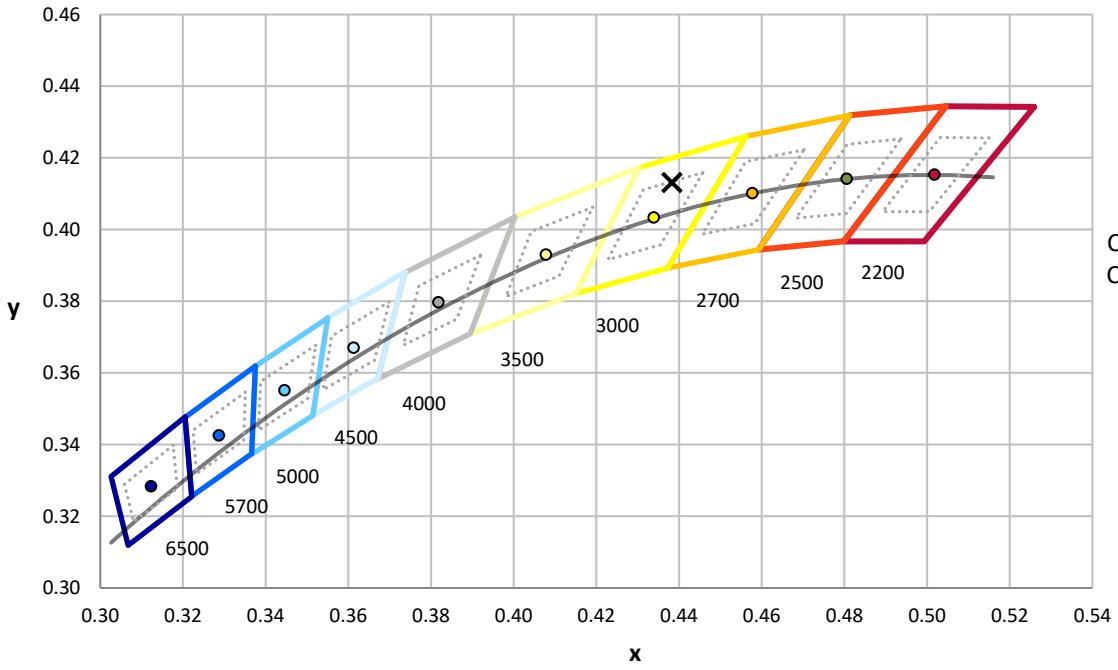
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

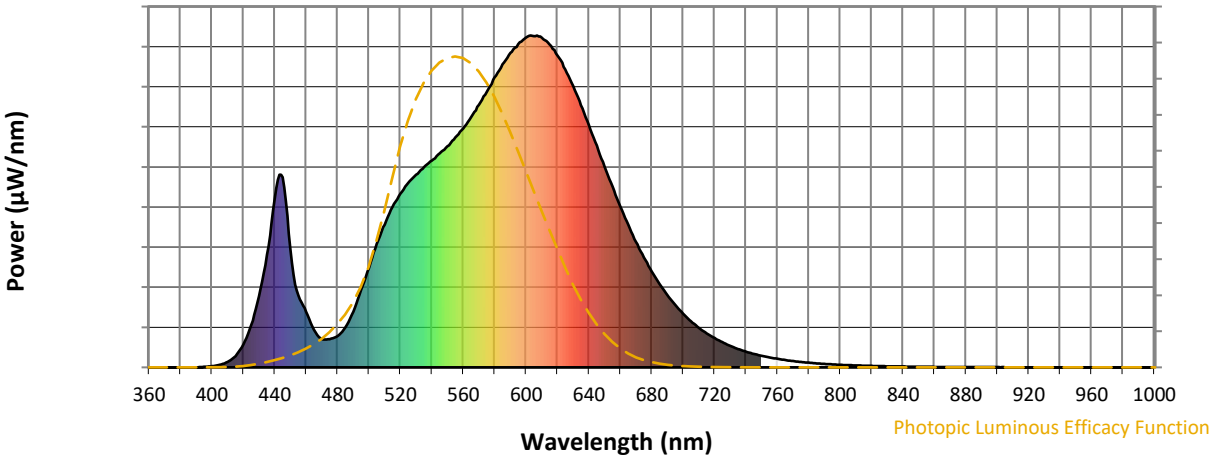


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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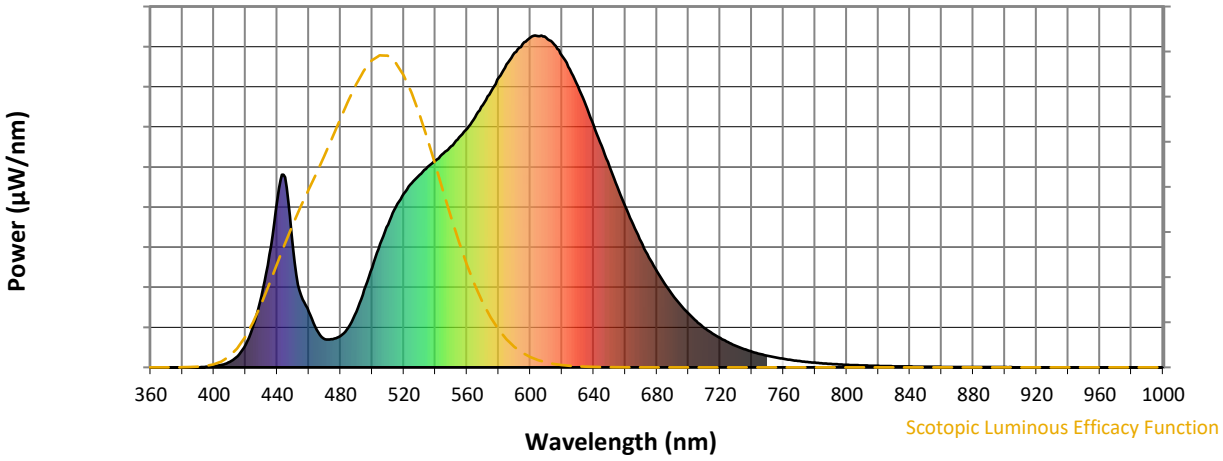
Scotopic Flux vs. Wavelength



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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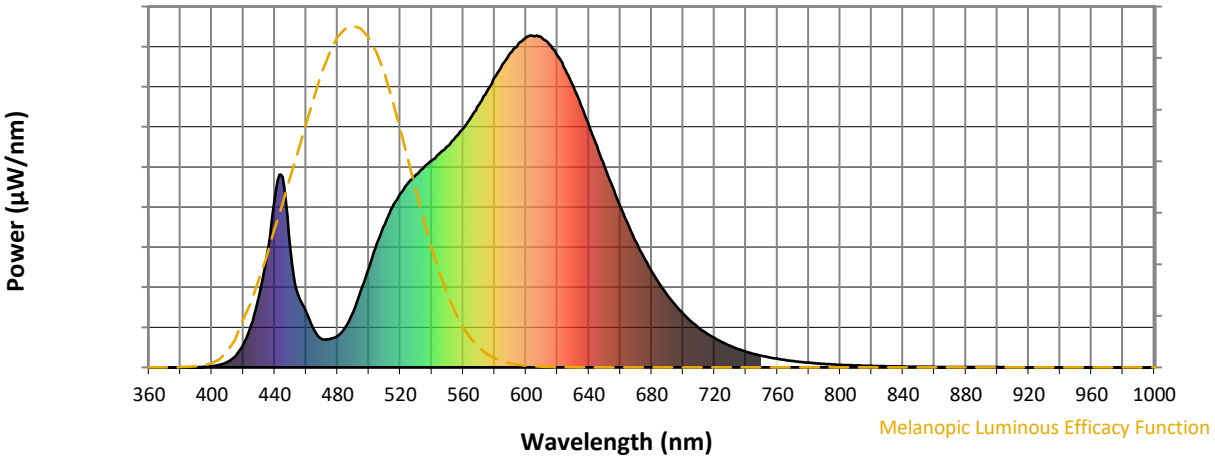
Melanopic Flux vs. Wavelength



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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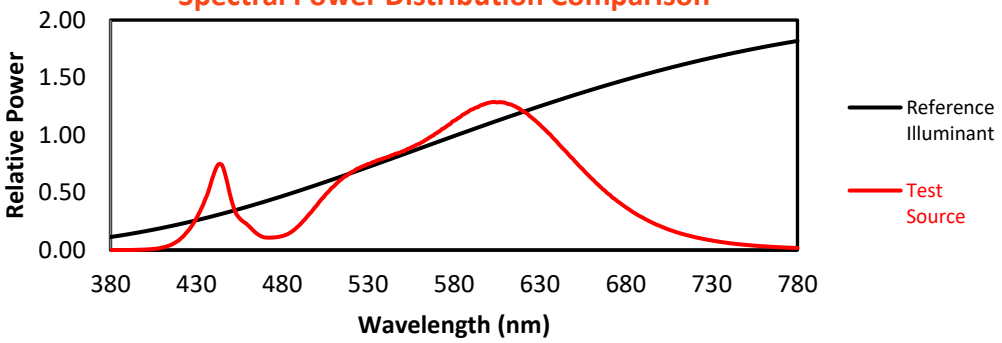
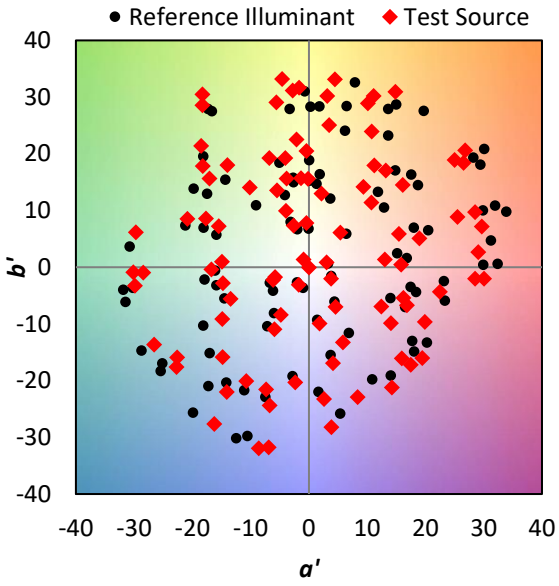
Summary

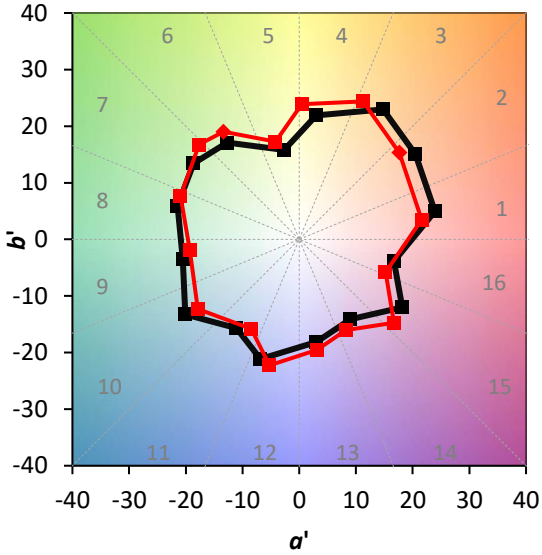
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

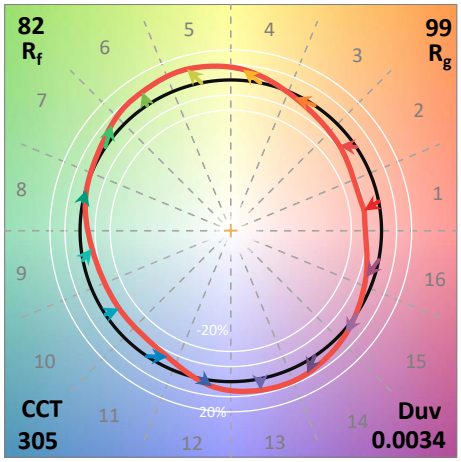
Spectral Power Distribution Comparison

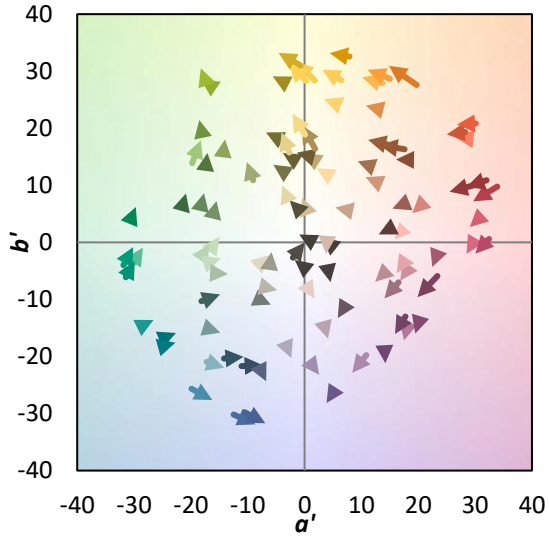


Color Vector Graphics









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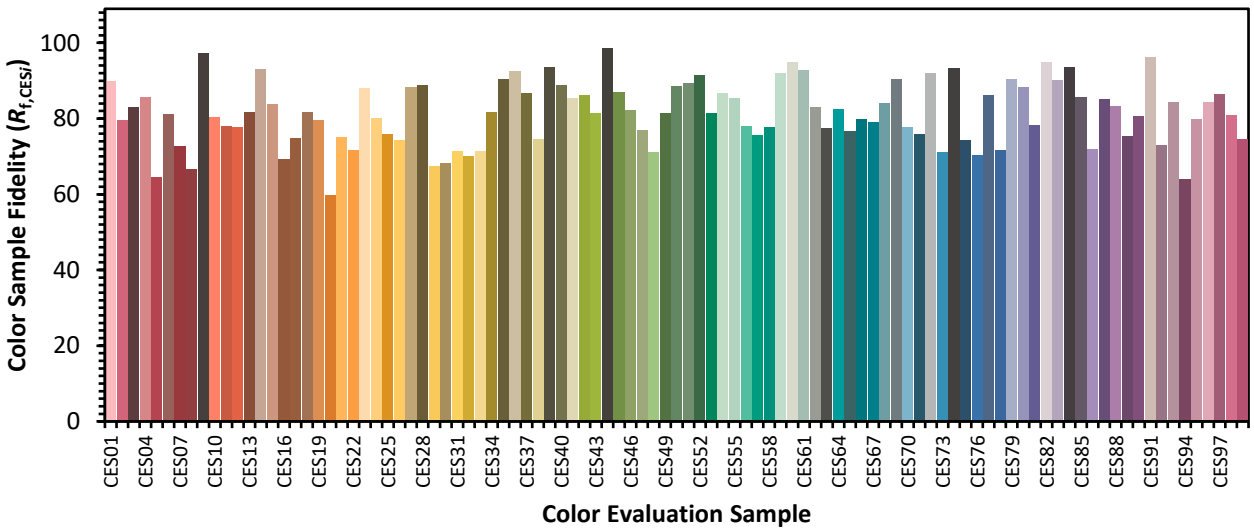
Individual Sample Fidelity Index ($R_{f,i}$)

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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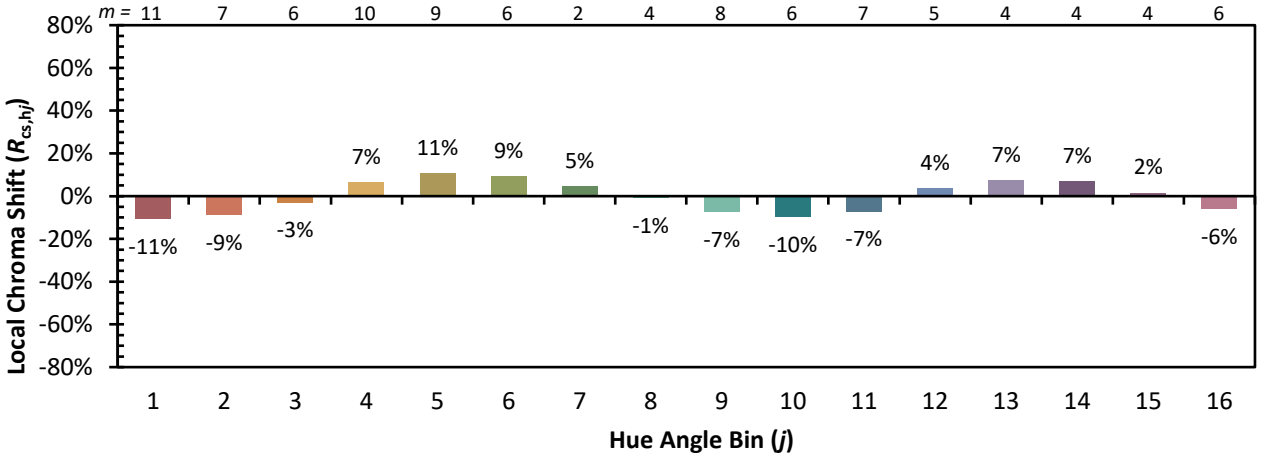
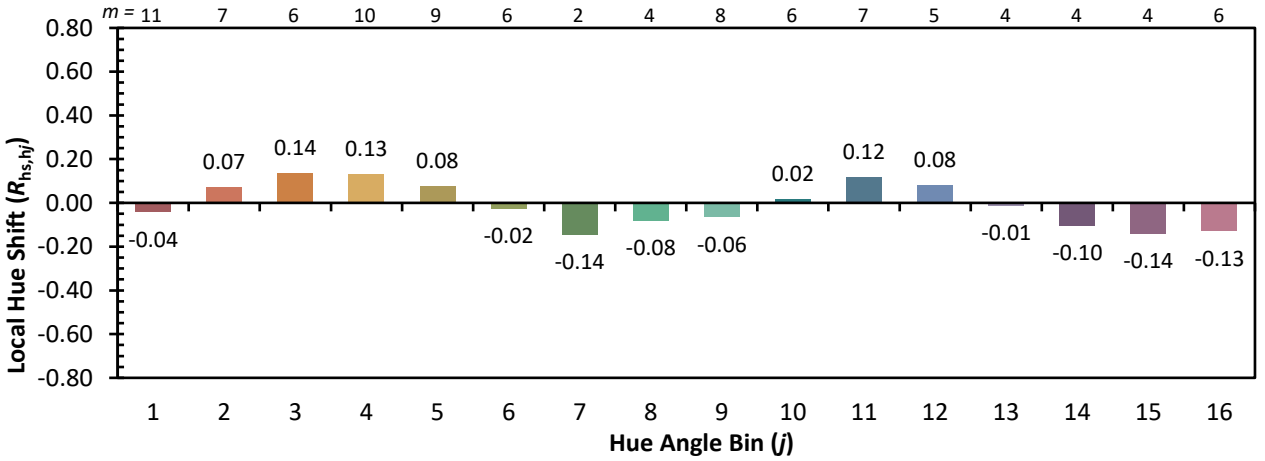
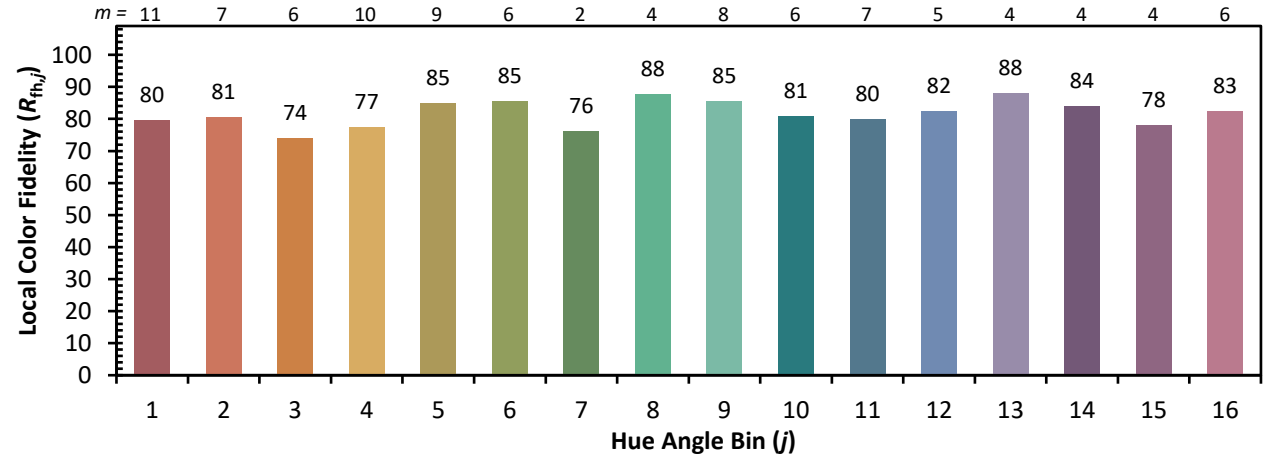
Color Rendition by Hue-Angle Bin







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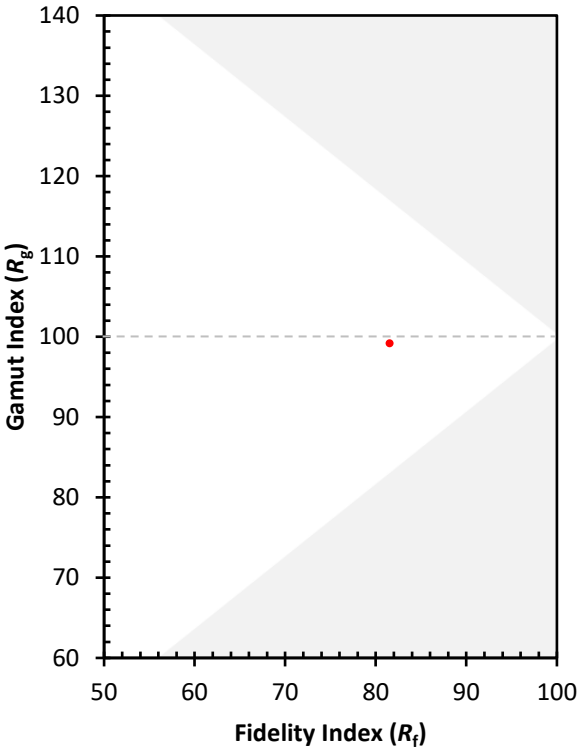
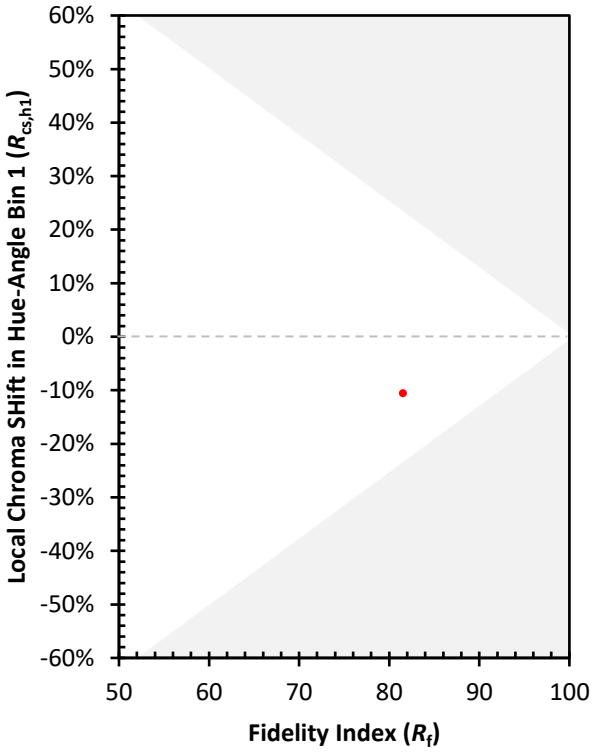
Measure Comparisons





(END OF REPORT)