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: P322417

Luminaire Tested: **GLEON-SA3D-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:	P322417
	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-SA3D-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1200mA 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:	13717 lumens
Efficiency:	N/A
Efficacy:	71.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	191
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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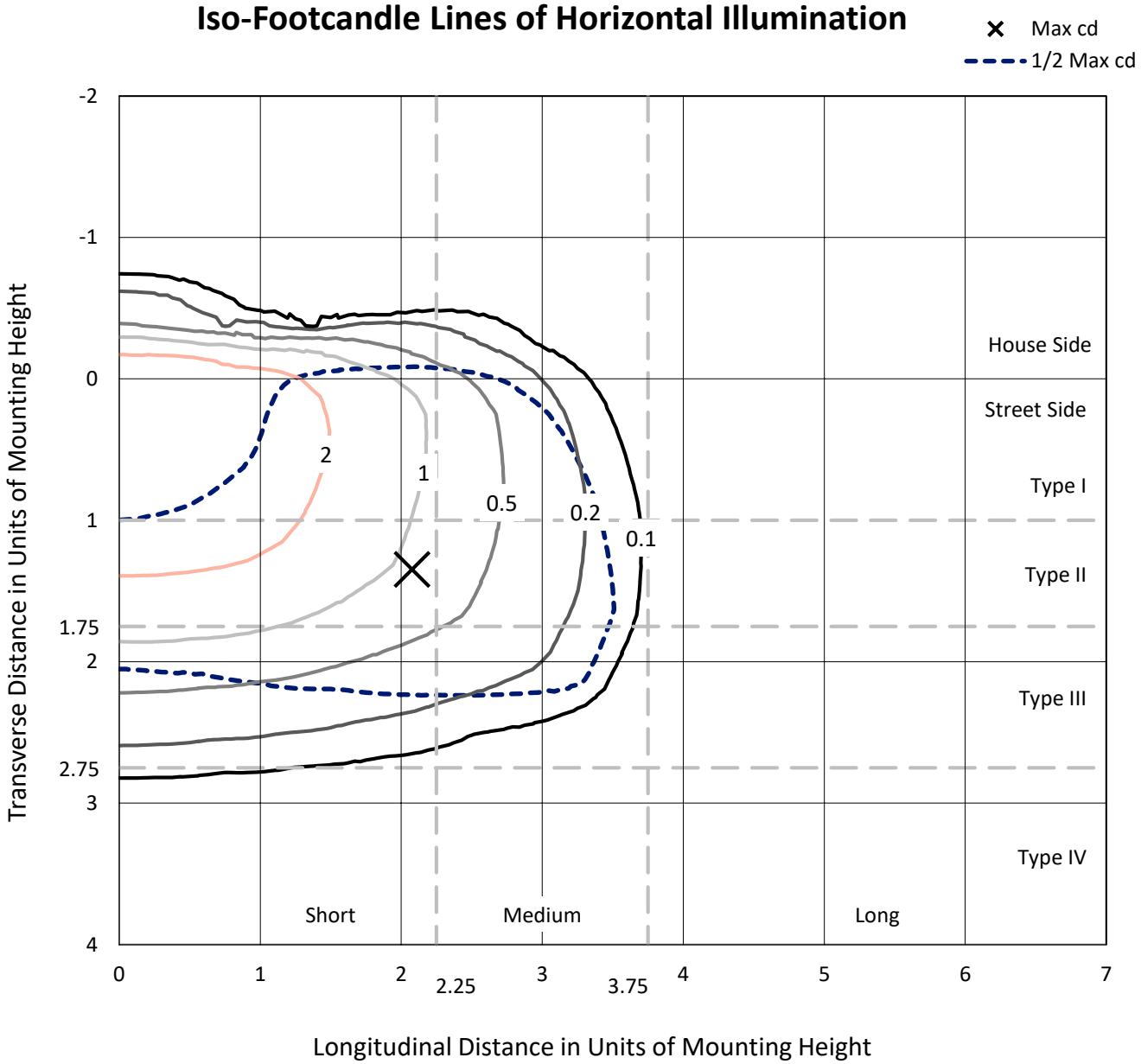
Scaled Data Report

REPORT NUMBER: P322417
CATALOG NUMBER: GLEON-SA3D-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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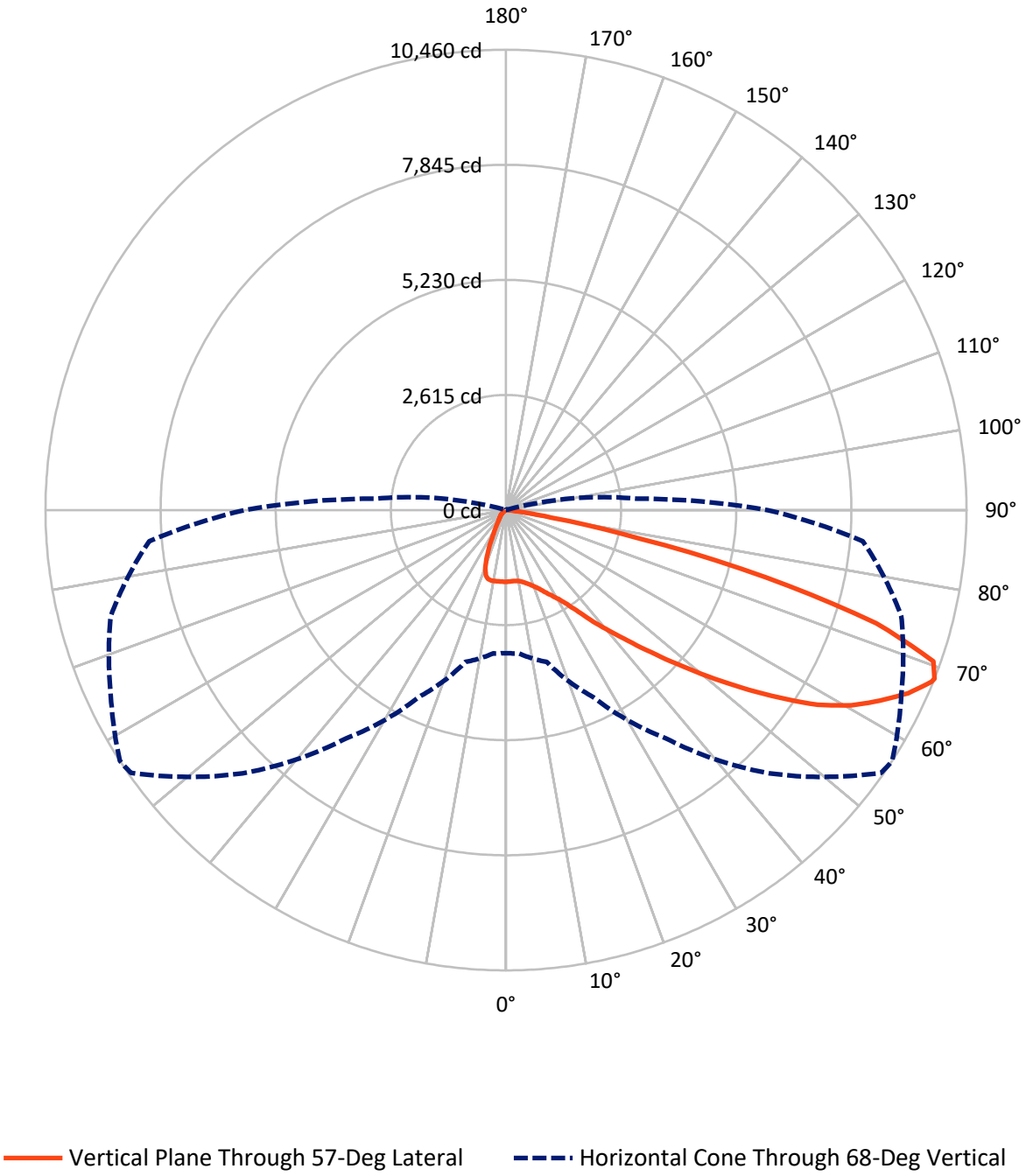
Luminous Intensity Polar Plot



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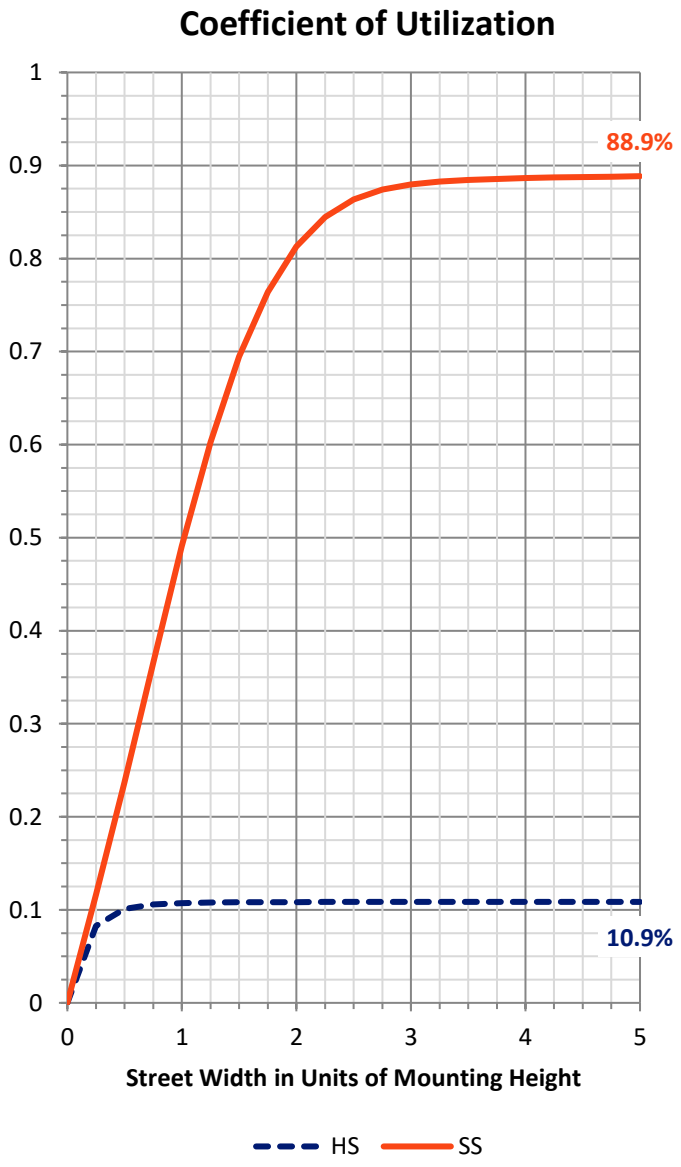
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1504.1	0.0	1504.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	12212.9	0.0	12212.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	13717.0	0.0	13717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	1.1
10°-20°	422.7	3.1
20°-30°	729.2	5.3
30°-40°	1258.5	9.2
40°-50°	2152.8	15.7
50°-60°	3444.2	25.1
60°-70°	3979.4	29.0
70°-80°	1520.6	11.1
80°-90°	57.0	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°	13717.0	100.0
0°-180°	13717.0	100.0



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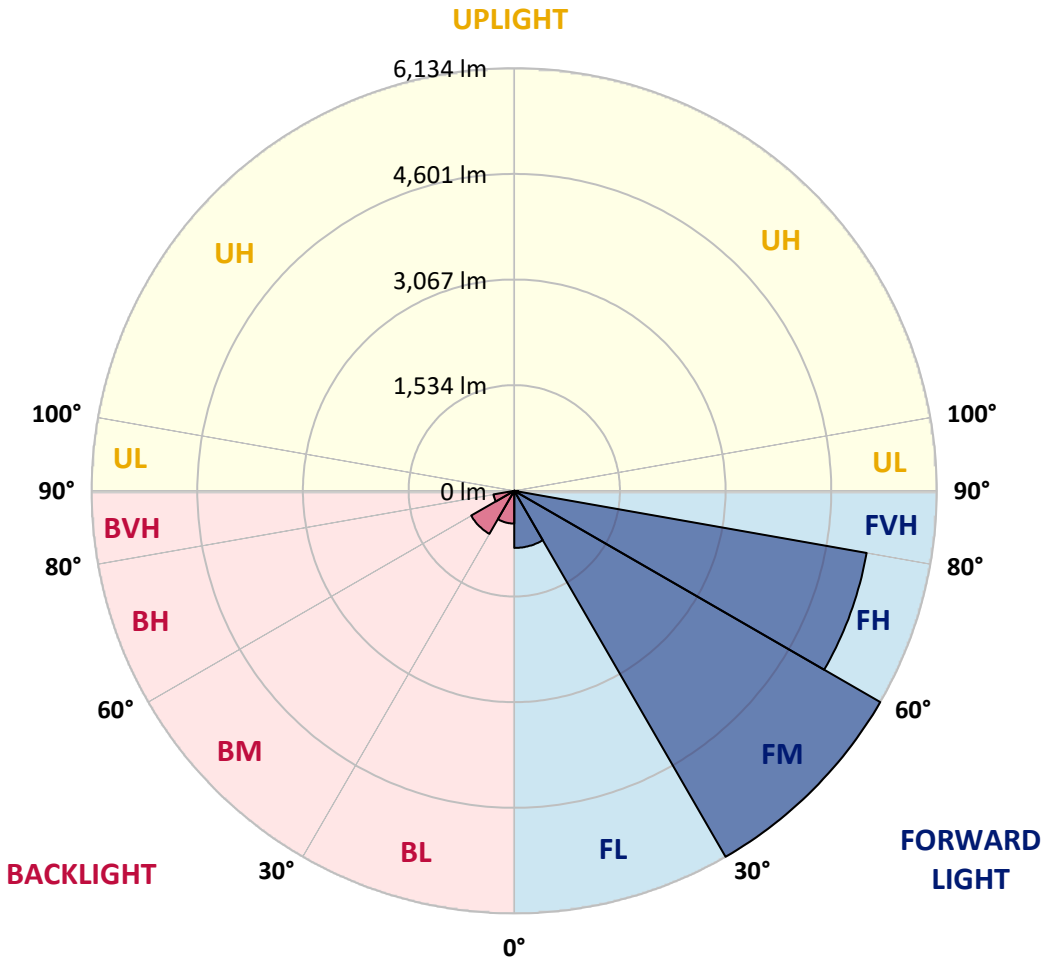
CATALOG NUMBER: GLEON-SA3D-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	829.1	6.0			
FM	(30°-60°)	6134.1	44.7			
FH	(60°-80°)	5193.7	37.9			G3/7500
FVH	(80°-90°)	56.0	0.4			G1/100
BL	(0°-30°)	475.4	3.5	B1/500		
BM	(30°-60°)	721.4	5.3	B1/1000		
BH	(60°-80°)	306.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G3
Type III Short



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REPORT NUMBER: P322417
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	*1629.9*	1629.9	1629.9	1629.9
2.5°	1591.7	1598.8	1604.0	1607.2	1611.1	1619.6	1622.2	*1626.0*	1628.0	1628.0	1632.5
5°	1528.8	1536.5	1547.6	1556.6	1574.8	1598.2	1615.0	*1621.5*	1633.2	1643.6	1649.4
7.5°	1470.4	1479.5	1492.4	1513.8	1545.0	1582.6	1617.6	*1626.7*	1649.4	1671.5	1682.5
10°	1432.8	1439.9	1456.8	1487.2	1528.1	1580.6	1629.9	*1641.0*	1679.9	1716.9	1737.6
12.5°	1419.8	1426.3	1443.8	1478.2	1528.8	1590.4	1658.5	*1674.7*	1731.8	1785.6	1814.8
15°	1438.6	1439.9	1458.7	1491.1	1541.1	1614.4	1705.8	*1725.3*	1797.3	1867.3	1903.7
17.5°	1511.2	1505.4	1515.1	1529.4	1569.0	1646.2	1755.8	*1785.0*	1881.0	1963.3	1997.7
20°	1692.9	1692.9	1670.8	1631.9	1632.5	1695.5	1823.2	*1856.3*	1973.7	2069.0	2100.2
22.5°	2003.5	1997.7	1953.6	1858.2	1770.7	1780.4	1905.6	*1948.4*	2085.3	2187.1	2197.5
25°	2377.1	2370.0	2301.9	2167.6	2015.9	1917.9	2017.2	*2066.5*	2218.2	2308.4	2287.0
27.5°	2772.8	2766.9	2699.5	2532.8	2316.8	2137.1	2150.1	*2196.8*	2353.8	2442.6	2374.5
30°	3156.1	3158.1	3091.2	2920.0	2675.5	2416.7	2318.8	*2346.0*	2485.4	2575.6	2478.3
32.5°	3520.6	3523.2	3465.5	3274.2	3045.8	2741.6	2552.3	*2545.1*	2638.5	2727.4	2615.8
35°	3845.6	3852.1	3812.5	3664.0	3422.0	3103.6	2855.2	*2838.3*	2855.8	2956.3	2826.6
37.5°	4158.8	4162.7	4132.9	4007.7	3805.4	3501.2	3237.8	*3213.8*	3176.2	3253.4	3104.9
40°	4502.0	4492.2	4457.9	4344.3	4170.5	3940.3	3649.0	*3607.5*	3542.0	3610.8	3470.7
42.5°	4821.1	4810.0	4815.9	4687.5	4540.9	4391.7	4128.4	*4057.0*	4018.7	4097.9	3919.5
45°	5220.0	5214.1	5233.6	5122.0	5003.3	4895.0	4677.7	*4599.9*	4583.0	4675.8	4462.4
47.5°	5613.7	5627.9	5688.3	5640.9	5592.9	5497.6	5259.5	*5224.5*	5234.9	5347.1	5035.1
50°	5941.9	5958.7	6124.1	6178.6	6248.0	6192.2	5953.5	*5932.1*	5973.0	6074.2	5651.3
52.5°	6179.2	6213.6	6419.2	6670.2	6923.2	6960.8	6722.8	*6703.3*	6758.5	6774.0	6127.4
55°	6344.0	6374.5	6607.3	7066.5	7581.5	7743.7	7595.8	*7520.6*	7510.2	7356.5	6628.1
57.5°	6373.2	6369.9	6704.6	7322.7	8097.8	8516.2	8422.8	*8348.8*	8136.1	7894.8	7202.1
60°	6208.4	6227.2	6615.8	7411.6	8422.1	9100.6	9107.7	*9011.7*	8680.3	8418.2	7758.6
62.5°	5701.2	5777.8	6170.2	7178.7	8418.2	9336.0	9609.7	*9536.4*	9140.1	8847.0	8322.9
65°	4878.8	4906.0	5280.3	6381.0	7849.4	9237.4	10061.8	*10034.5*	9554.6	9263.4	8612.8
67.5°	3562.8	3503.8	3896.8	5024.7	6645.6	8662.8	10386.1	*10420.5*	9874.3	9349.0	8304.1
68°	*3251.5*	*3269.0*	*3575.1*	*4689.4*	*6330.4*	*8459.7*	*10407.5*	*10460.0*	*9906.1*	*9293.2*	*8135.4*
70°	1938.0	1971.8	2244.8	3228.7	4815.9	7311.1	10176.6	*10296.6*	9716.7	8717.9	7036.7
72.5°	494.9	535.1	793.2	1445.1	2750.7	5151.2	8590.8	*8793.8*	8436.4	7072.4	4750.4
75°	203.7	214.0	283.4	476.1	1024.8	2320.7	5662.3	*6096.9*	5848.5	4234.1	2146.9
77.5°	140.7	147.9	182.3	264.0	443.6	786.8	2776.0	*3089.9*	2783.8	1445.1	468.3
80°	101.2	107.0	130.4	175.8	254.9	280.8	904.8	*1046.2*	830.9	317.2	116.1
82.5°	60.3	64.9	97.3	125.2	155.0	134.3	225.1	*255.5*	240.6	157.6	51.9
85°	29.8	35.0	65.5	89.5	83.7	56.4	68.8	*76.5*	94.7	96.0	27.9
87.5°	1.9	3.9	38.3	53.8	23.3	13.0	20.1	*24.6*	33.7	47.3	11.7
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: P322417
CATALOG NUMBER: GLEON-SA3D-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1634.5	1635.1	1630.6	1628.6	1629.9	1622.2	1618.9	1620.2	1620.2	1622.2	1618.9
5°	1650.7	1650.7	1642.9	1632.5	1626.7	1611.8	1602.1	1599.5	1597.5	1596.2	1593.6
7.5°	1685.7	1681.8	1668.2	1645.5	1626.0	1593.6	1569.0	1556.0	1549.5	1546.9	1545.0
10°	1742.1	1735.0	1712.3	1670.2	1625.4	1567.7	1513.8	1475.6	1443.8	1430.8	1423.0
12.5°	1818.0	1807.7	1769.4	1699.3	1620.9	1514.5	1397.7	1285.5	1181.1	1138.3	1116.9
15°	1905.6	1890.7	1830.4	1724.0	1594.3	1394.5	1140.9	944.4	799.7	745.2	721.9
17.5°	1994.5	1975.0	1883.5	1739.6	1514.5	1146.1	800.4	604.5	507.9	481.9	472.8
20°	2084.0	2055.4	1929.6	1727.9	1334.2	826.3	528.0	441.7	413.8	406.0	403.4
22.5°	2168.9	2124.8	1971.1	1682.5	1056.6	554.6	417.7	390.5	381.4	376.8	375.5
25°	2242.9	2181.3	2007.4	1542.4	747.8	419.0	376.2	367.1	355.4	347.0	347.7
27.5°	2312.3	2237.7	2029.5	1311.5	498.8	358.0	348.3	336.0	314.6	302.2	302.2
30°	2395.9	2312.9	2045.7	1009.2	367.1	316.5	308.7	289.9	260.7	244.5	244.5
32.5°	2521.8	2427.1	2035.3	708.3	304.2	278.3	260.1	234.1	202.4	186.8	186.1
35°	2714.4	2603.5	1961.4	464.4	268.5	241.9	212.7	181.0	153.1	140.1	139.4
37.5°	2973.8	2839.6	1795.3	332.1	240.6	208.2	173.2	138.2	117.4	109.0	108.3
40°	3310.5	3113.9	1557.9	269.2	214.7	175.8	133.6	107.0	92.8	86.3	86.9
42.5°	3714.6	3407.8	1273.2	232.2	189.4	144.6	104.4	84.3	75.2	70.7	69.4
45°	4163.4	3697.7	974.9	206.9	164.1	116.7	81.7	66.8	59.7	57.1	57.1
47.5°	4657.0	3979.8	713.5	184.9	136.9	90.2	65.5	54.5	48.6	46.7	46.1
50°	5105.2	4175.7	514.3	161.5	112.2	71.3	53.2	45.4	41.5	38.9	38.9
52.5°	5478.8	4237.3	378.8	136.2	90.8	57.1	44.1	38.9	35.0	33.1	33.1
55°	5807.6	4212.0	281.5	112.2	73.3	46.7	37.6	33.1	29.8	27.9	27.9
57.5°	6122.8	4130.3	210.1	91.5	59.0	37.6	31.8	27.9	24.6	23.3	23.3
60°	6380.3	3994.1	156.3	73.9	47.3	30.5	26.6	22.7	20.1	18.2	18.2
62.5°	6589.2	3843.6	114.8	61.0	37.6	24.0	20.8	18.8	14.9	13.0	13.0
65°	6590.5	3593.9	86.3	50.6	29.2	18.8	15.6	14.9	9.7	7.8	7.1
67.5°	6113.7	3098.4	66.2	43.5	22.7	14.3	11.7	12.3	5.2	3.2	2.6
68°	*5940.6*	*2972.6*	*62.3*	*42.8*	*21.4*	*13.6*	*11.0*	*12.3*	*4.5*	*2.6*	*1.9*
70°	5008.5	2364.8	49.9	41.5	18.8	10.4	9.1	12.3	3.9	1.9	1.3
72.5°	3203.5	1372.4	37.0	33.1	14.3	7.8	5.8	11.0	3.9	1.3	0.6
75°	1363.4	425.5	25.3	23.3	8.4	5.8	3.9	7.1	2.6	0.6	0.0
77.5°	287.3	96.0	14.9	14.3	5.8	3.9	2.6	1.9	0.6	0.0	0.0
80°	73.9	27.9	7.8	7.1	3.2	1.9	1.3	0.0	0.0	0.0	0.0
82.5°	23.3	11.0	4.5	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	1.9	0.6	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

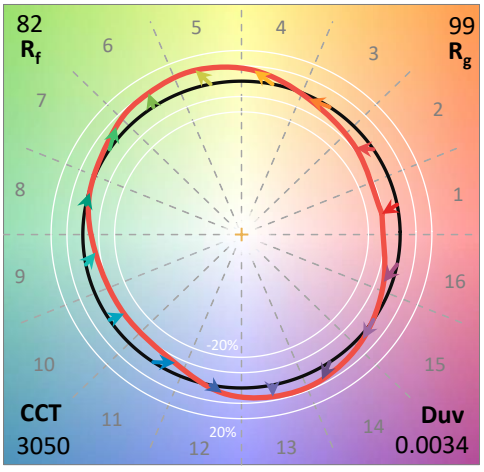
Test Information

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

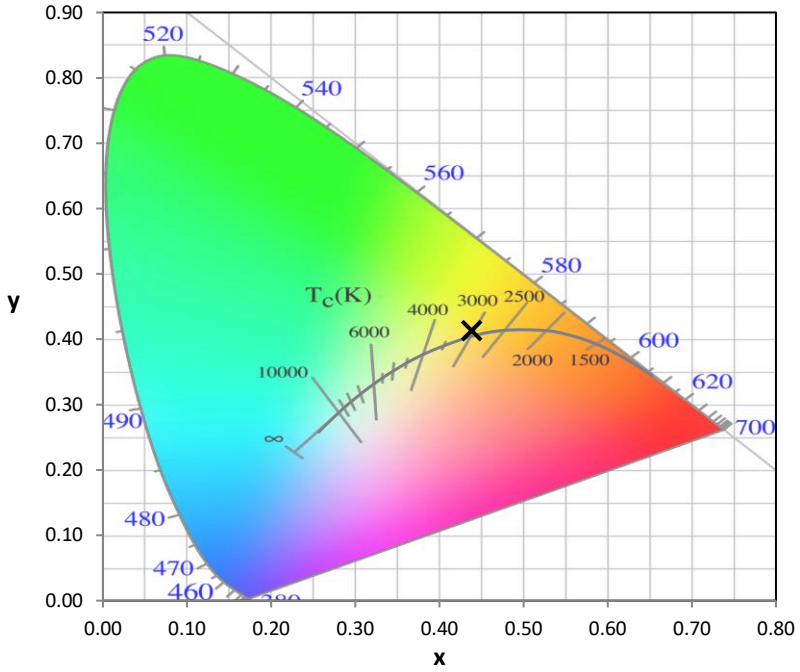
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

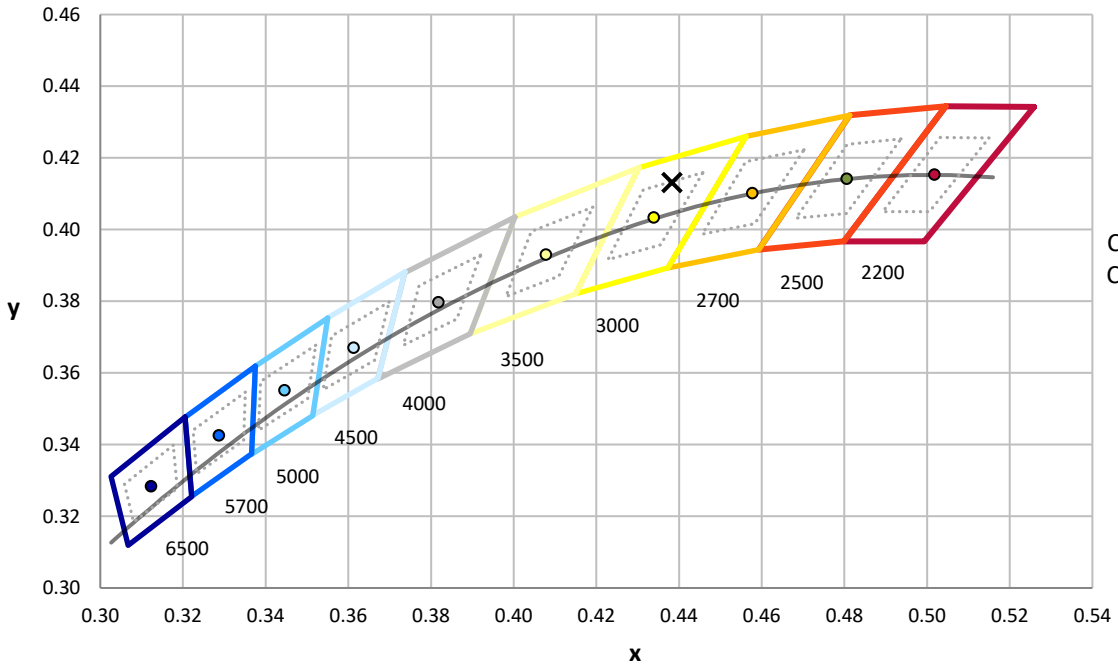
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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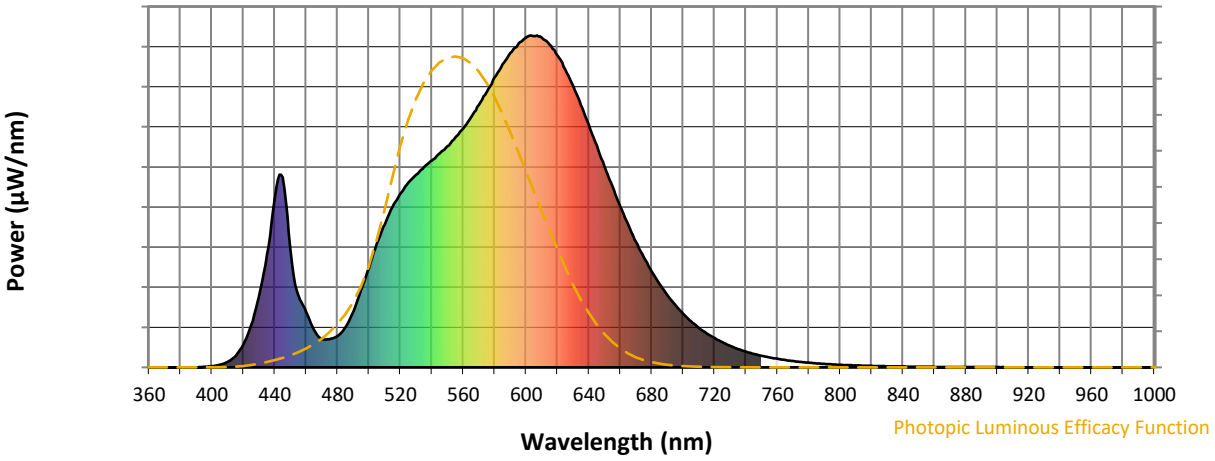
Photopic Flux vs. Wavelength



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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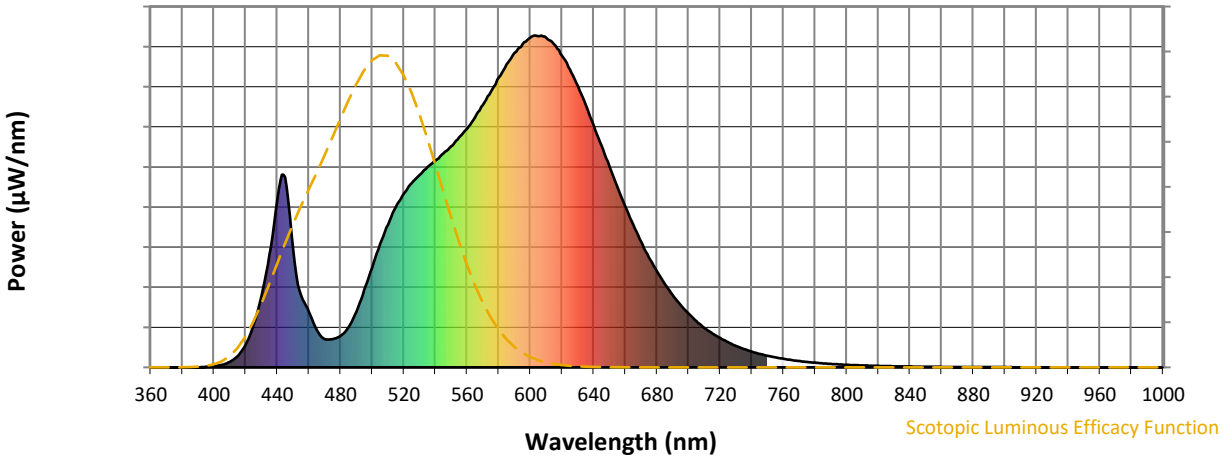
Scotopic Flux vs. Wavelength



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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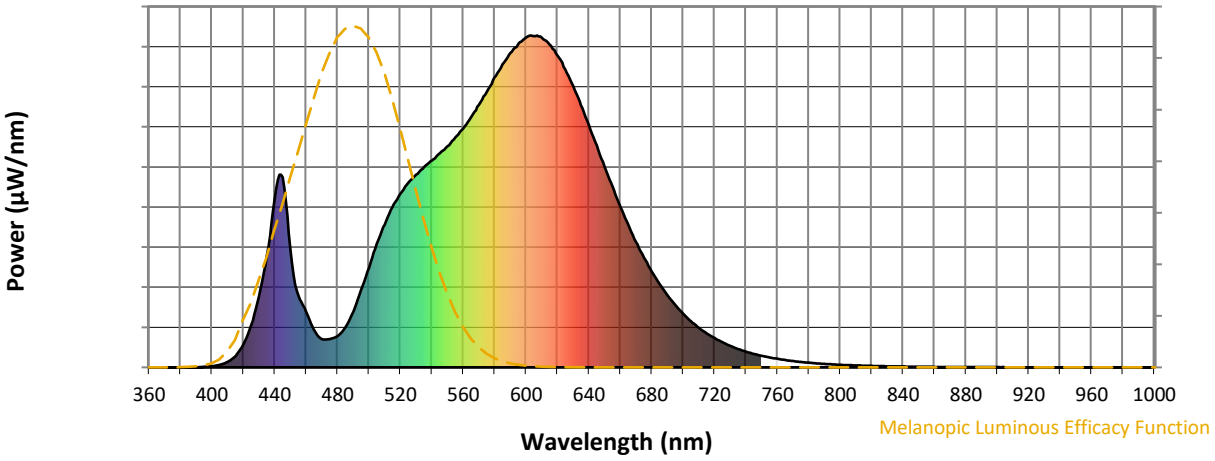
Melanopic Flux vs. Wavelength



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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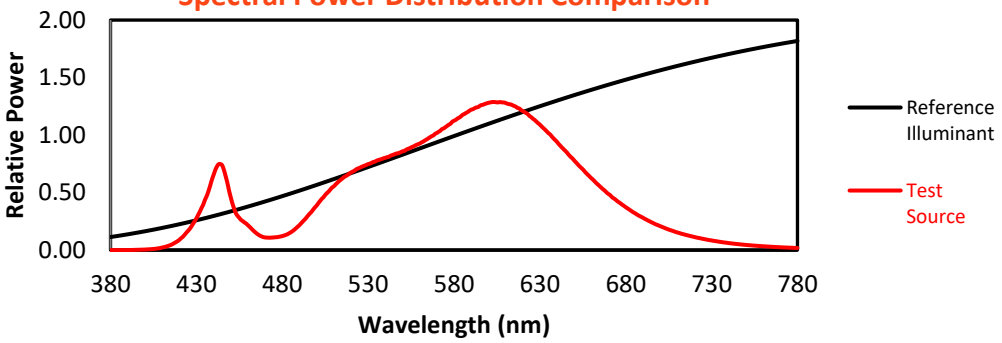
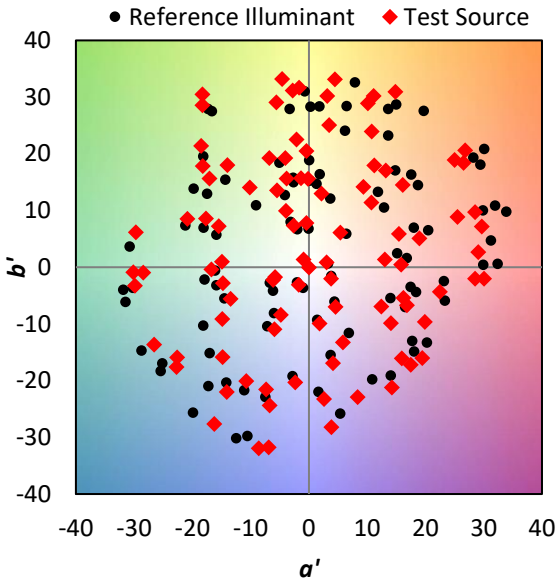
Summary

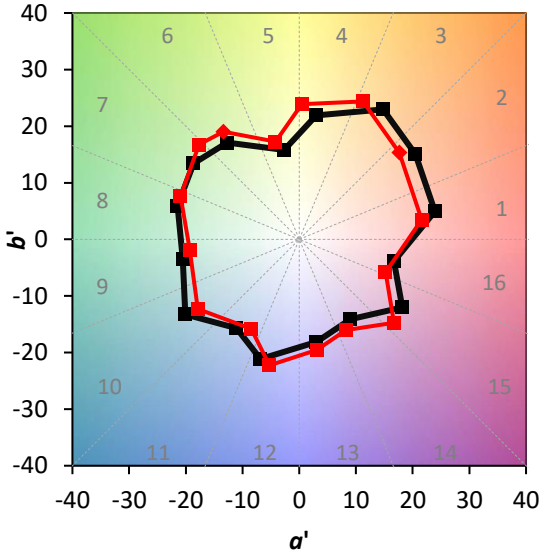
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

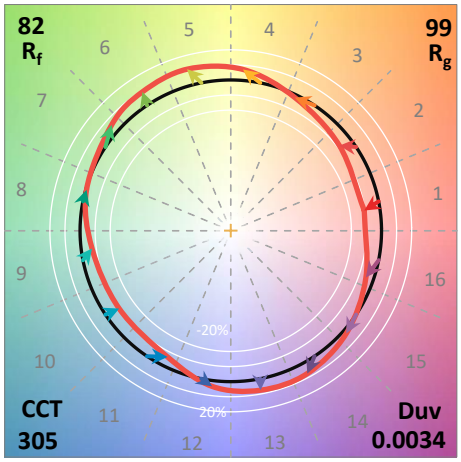
Spectral Power Distribution Comparison

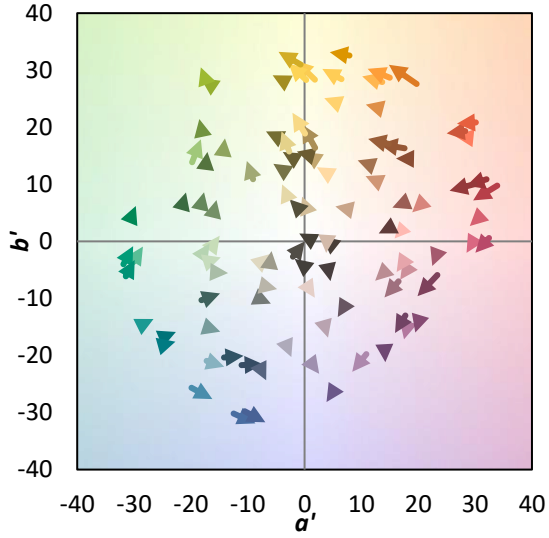


Color Vector Graphics









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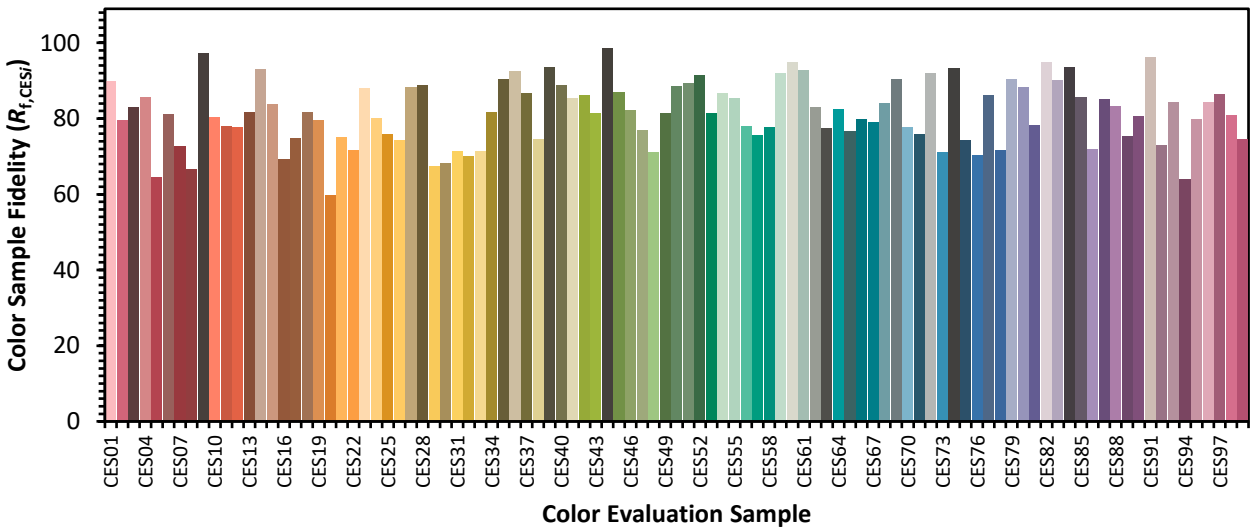
Individual Sample Fidelity Index ($R_{f,i}$)

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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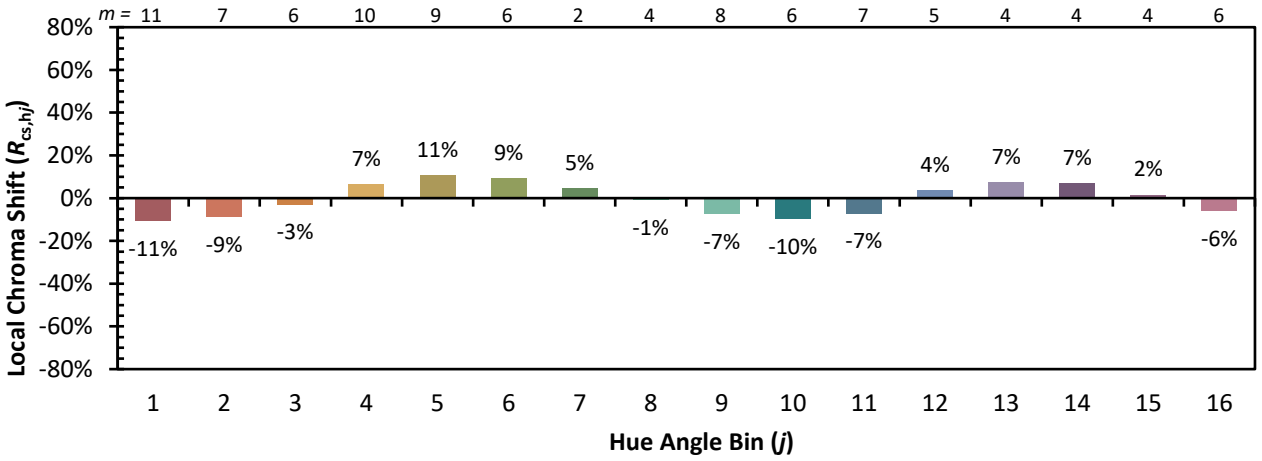
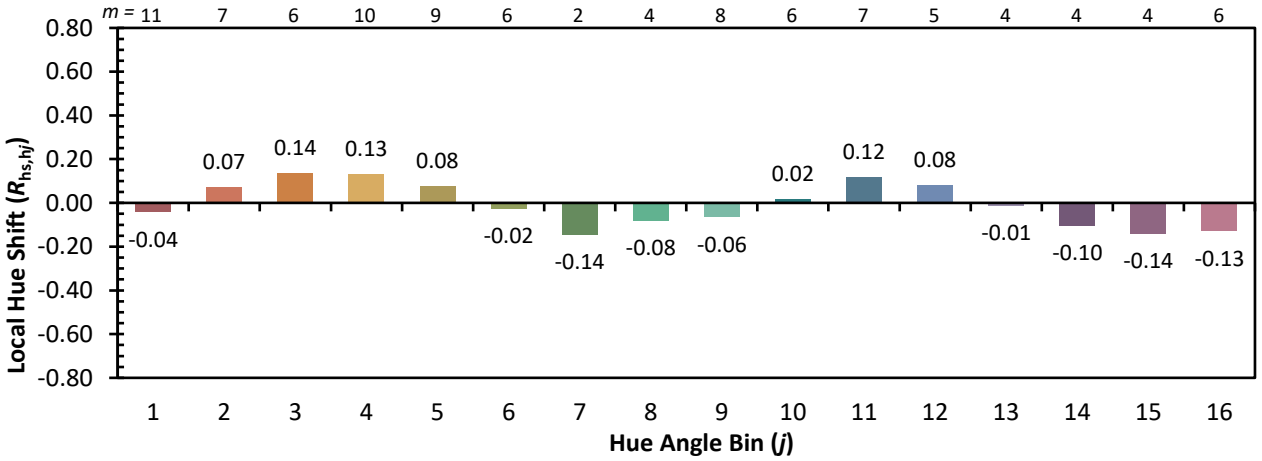
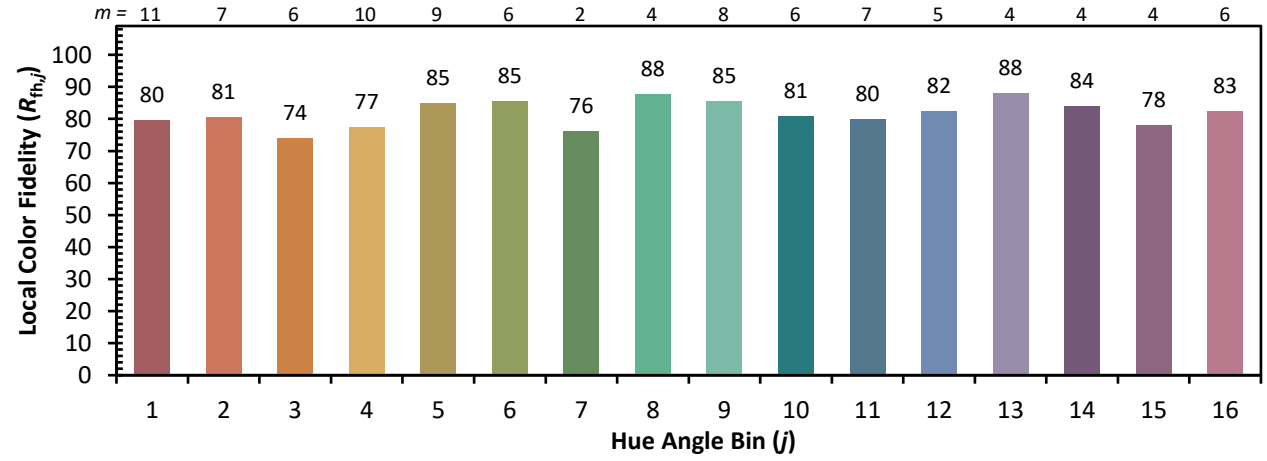
Color Rendition by Hue-Angle Bin







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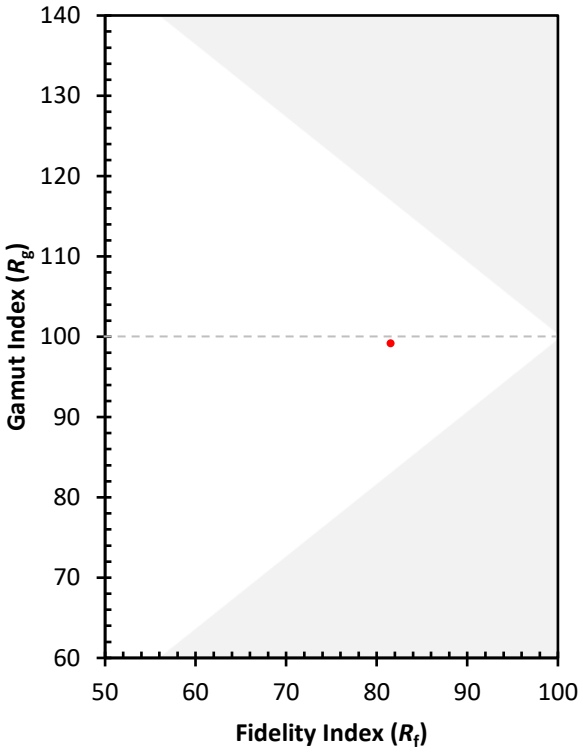
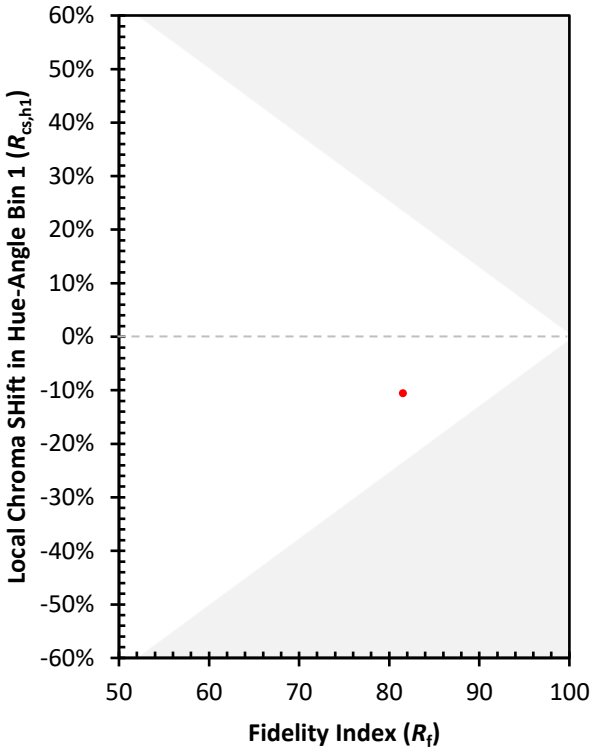
Measure Comparisons





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