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: P317906

Luminaire Tested: **GLEON-SA2A-830-U-T3R**

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:	P317906
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
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-T3R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7747 lumens
Efficiency:	N/A
Efficacy:	117.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type IV - Medium
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

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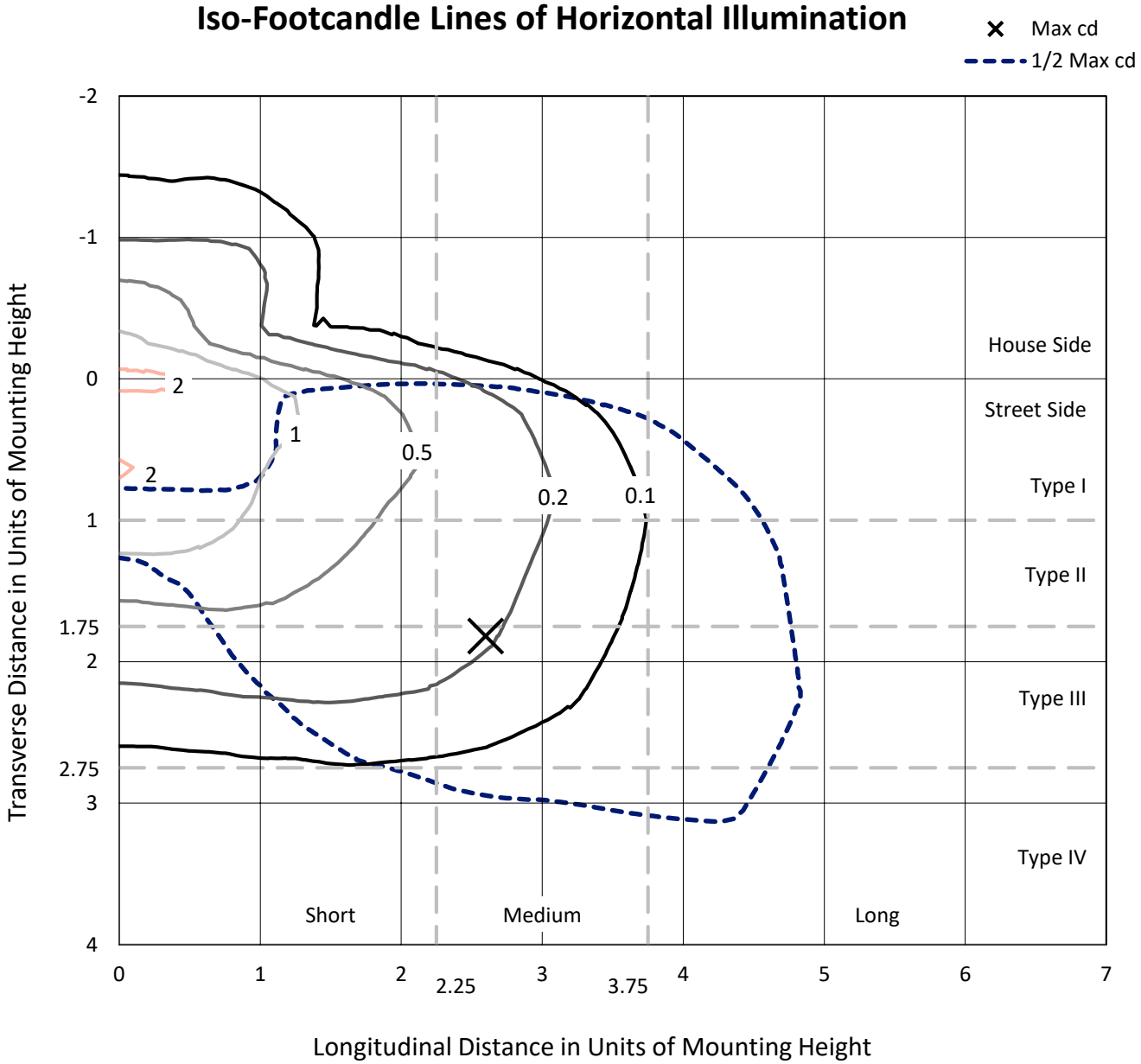
Scaled Data Report

REPORT NUMBER: P317906
CATALOG NUMBER: GLEON-SA2A-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Medium - N/A

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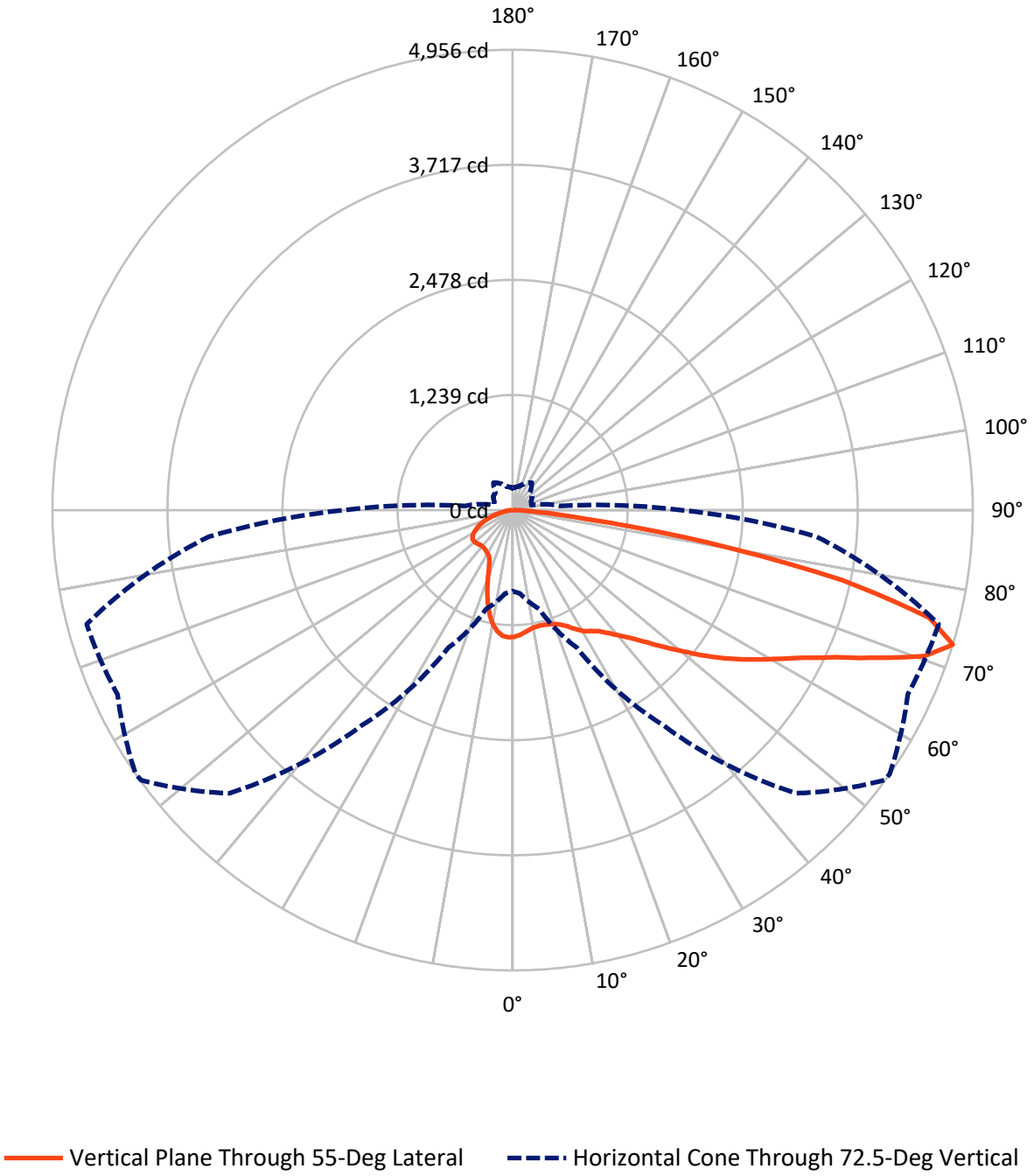
Luminous Intensity Polar Plot



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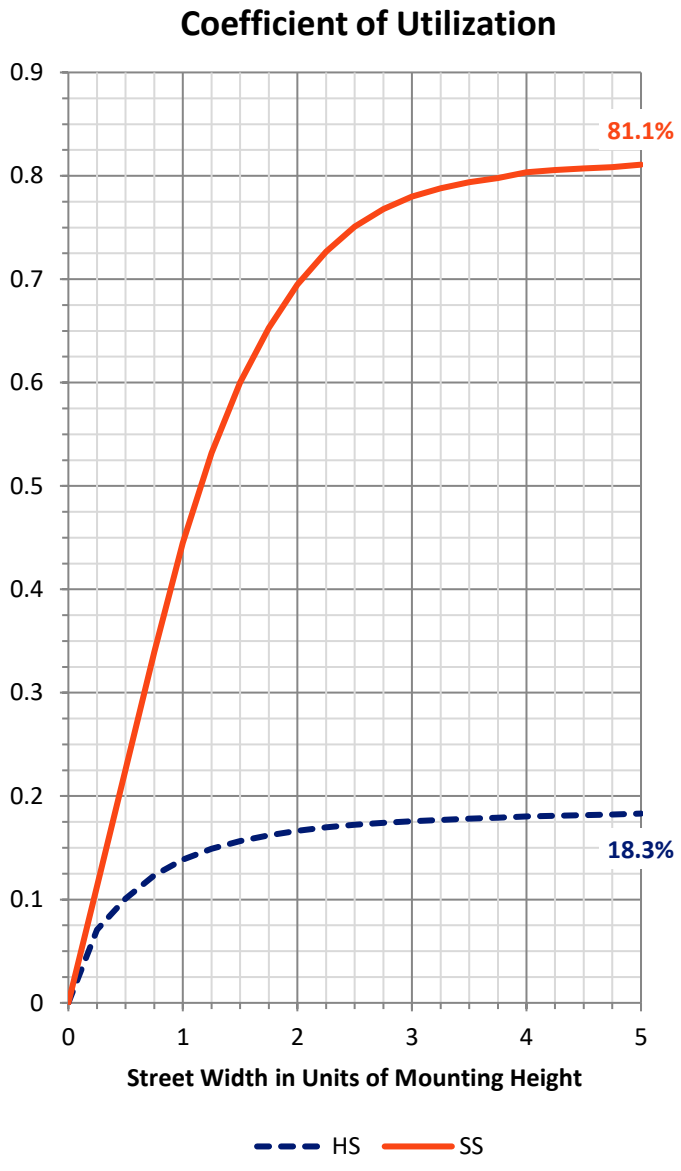
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1439.9	0.0	1439.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6307.1	0.0	6307.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	7747.0	0.0	7747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.6
10°-20°	329.2	4.2
20°-30°	542.7	7.0
30°-40°	802.9	10.4
40°-50°	1120.6	14.5
50°-60°	1459.1	18.8
60°-70°	1793.2	23.1
70°-80°	1405.6	18.1
80°-90°	170.1	2.2
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°	7747.0	100.0
0°-180°	7747.0	100.0



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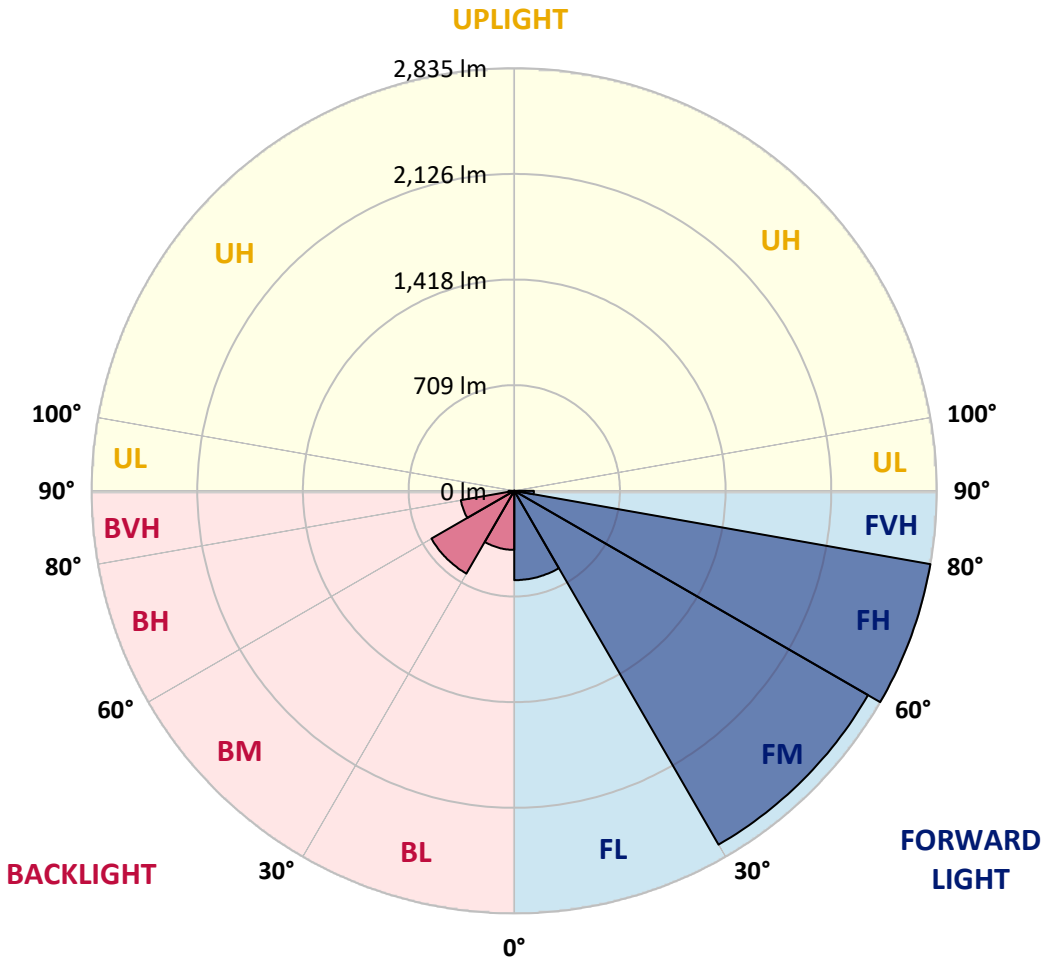
REPORT NUMBER: P317906
CATALOG NUMBER: GLEON-SA2A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	599.4	7.7			
FM	(30°-60°)	2741.0	35.4			
FH	(60°-80°)	2835.1	36.6			G2/5000
FVH	(80°-90°)	131.5	1.7			G2/225
BL	(0°-30°)	396.2	5.1	B1/500		
BM	(30°-60°)	641.5	8.3	B1/1000		
BH	(60°-80°)	363.6	4.7	B1/500		G1/500
BVH	(80°-90°)	38.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Medium



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Scaled Data Report

REPORT NUMBER: P317906
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	*1366.4*	1366.4	1366.4	1366.4
2.5°	1321.9	1318.8	1322.7	1328.2	1334.2	1342.3	1347.0	*1349.1*	1357.2	1360.4	1367.2
5°	1260.7	1259.1	1265.7	1275.1	1288.4	1307.3	1322.4	*1325.3*	1346.8	1362.0	1375.8
7.5°	1216.2	1216.2	1223.8	1235.0	1250.0	1275.3	1296.8	*1300.7*	1337.1	1369.8	1395.4
10°	1180.9	1182.2	1191.1	1204.4	1222.0	1248.9	1277.4	*1281.9*	1334.5	1388.1	1428.9
12.5°	1157.3	1160.5	1168.6	1180.6	1202.3	1235.0	1271.2	*1277.2*	1340.0	1414.3	1469.2
15°	1172.3	1177.5	1178.3	1183.2	1195.3	1230.9	1274.8	*1281.1*	1351.8	1441.0	1515.0
17.5°	1237.7	1239.5	1231.4	1220.9	1215.2	1237.9	1285.8	*1292.4*	1365.9	1467.4	1559.0
20°	1337.1	1336.1	1318.5	1290.3	1261.0	1264.6	1303.9	*1310.7*	1385.0	1490.7	1602.9
22.5°	1462.7	1459.0	1432.1	1380.0	1330.0	1309.1	1335.5	*1341.3*	1413.8	1523.9	1650.0
25°	1615.0	1606.9	1571.3	1501.4	1427.9	1374.0	1383.2	*1388.6*	1455.6	1561.1	1693.2
27.5°	1775.6	1767.5	1722.3	1637.7	1539.9	1455.9	1448.8	*1453.5*	1503.3	1588.6	1725.1
30°	1943.6	1935.0	1893.7	1798.9	1658.7	1540.7	1510.1	*1511.9*	1536.7	1603.5	1751.3
32.5°	2112.4	2104.3	2058.0	1948.1	1787.7	1631.7	1554.3	*1551.9*	1556.9	1618.9	1780.9
35°	2283.5	2286.7	2232.5	2110.8	1930.5	1733.0	1606.6	*1601.6*	1590.6	1650.6	1822.7
37.5°	2466.7	2464.6	2394.5	2267.3	2080.0	1842.9	1681.7	*1680.9*	1643.0	1710.5	1888.4
40°	2589.2	2590.5	2547.8	2427.4	2230.9	1964.6	1778.0	*1776.2*	1726.5	1800.2	1974.5
42.5°	2637.0	2645.7	2656.7	2580.3	2389.0	2105.6	1892.9	*1890.3*	1842.9	1929.0	2075.8
45°	2640.4	2657.7	2725.7	2716.1	2549.1	2267.0	2039.7	*2032.3*	1998.3	2100.1	2196.7
47.5°	2611.1	2628.9	2742.0	2796.9	2692.3	2437.4	2211.3	*2205.6*	2176.3	2314.1	2327.5
50°	2547.0	2564.0	2708.5	2836.4	2810.0	2601.2	2409.1	*2394.0*	2378.3	2561.4	2477.2
52.5°	2426.9	2459.6	2663.7	2845.8	2880.4	2746.7	2617.2	*2607.2*	2615.8	2822.3	2627.1
55°	2142.5	2179.1	2548.3	2838.0	2932.5	2868.9	2825.2	*2824.7*	2869.4	3096.0	2788.0
57.5°	1983.1	2009.0	2313.4	2824.7	2994.2	2990.3	3031.1	*3036.1*	3123.2	3394.0	2956.5
60°	1893.1	1920.3	2194.3	2775.2	3090.0	3147.3	3241.2	*3251.2*	3381.2	3724.0	3159.3
62.5°	1811.2	1841.1	2120.5	2674.5	3202.8	3371.8	3492.9	*3501.8*	3654.4	4063.1	3355.3
65°	1671.2	1705.0	2012.5	2608.3	3305.3	3664.6	3813.0	*3819.0*	3968.1	4418.4	3505.2
67.5°	1473.4	1504.3	1808.6	2462.0	3381.2	4020.2	4238.4	*4241.8*	4279.2	4669.4	3581.9
70°	1242.4	1254.2	1518.2	2160.0	3291.5	4352.8	4704.7	*4705.5*	4562.9	4830.0	3569.3
72.5°	*872.9*	*900.6*	*1102.1*	*1635.1*	*2828.6*	*4312.2*	*4946.7*	*4955.6*	*4694.8*	*4748.9*	*3284.1*
75°	535.4	564.7	691.3	990.9	1794.5	3391.4	4570.5	*4632.2*	4447.5	4234.2	2682.8
77.5°	358.0	368.9	451.1	577.8	813.0	1951.2	3513.9	*3630.1*	3694.7	3087.9	1715.7
80°	199.6	220.6	299.1	359.0	361.6	775.3	2106.9	*2134.1*	2055.6	1229.6	529.3
82.5°	105.7	117.2	199.6	210.9	197.3	259.6	785.3	*786.0*	656.8	329.7	157.3
85°	81.9	91.6	136.8	128.7	100.7	115.1	259.0	*273.2*	223.5	135.0	51.3
87.5°	40.8	50.8	92.9	81.6	39.5	33.0	92.6	*98.9*	88.2	52.9	18.6
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: P317906
CATALOG NUMBER: GLEON-SA2A-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4
2.5°	1369.8	1372.2	1375.0	1371.9	1370.9	1366.7	1359.6	1358.0	1354.4	1354.6	1356.7
5°	1381.8	1385.8	1384.2	1372.2	1357.8	1337.6	1316.7	1298.9	1287.1	1286.3	1285.6
7.5°	1404.9	1407.5	1395.2	1360.9	1320.6	1274.0	1230.1	1191.6	1168.3	1162.6	1161.3
10°	1441.0	1440.5	1406.7	1337.6	1257.3	1174.1	1103.4	1050.1	1018.9	1009.8	1007.4
12.5°	1481.3	1475.3	1410.6	1295.2	1167.8	1052.4	962.9	903.5	871.1	860.6	858.0
15°	1522.9	1508.0	1400.9	1231.9	1057.9	921.3	827.4	772.4	754.9	749.1	748.1
17.5°	1561.6	1532.8	1373.2	1146.1	932.6	790.7	717.5	695.5	699.7	707.3	707.5
20°	1599.5	1549.6	1328.7	1037.8	800.4	683.2	658.3	674.6	694.5	709.9	712.0
22.5°	1637.0	1561.3	1271.4	912.7	682.2	622.8	640.3	669.9	692.6	709.4	712.2
25°	1668.4	1564.2	1192.4	779.2	600.0	600.0	631.7	659.7	682.2	698.6	701.5
27.5°	1679.9	1544.9	1080.9	655.7	558.7	589.5	619.6	642.9	662.0	679.5	682.7
30°	1684.3	1509.0	952.2	556.6	541.6	578.3	603.4	623.3	641.3	657.8	660.7
32.5°	1685.1	1465.8	815.6	500.3	529.9	566.5	583.2	600.8	620.1	626.7	627.7
35°	1690.1	1414.8	671.7	471.5	518.9	555.5	568.9	581.4	550.0	552.4	554.5
37.5°	1704.5	1364.3	551.3	455.3	511.8	549.8	565.7	520.2	495.6	489.8	489.0
40°	1731.4	1310.4	462.1	442.2	509.2	552.6	545.6	485.6	443.3	411.6	406.9
42.5°	1768.8	1252.3	405.1	433.6	511.0	566.5	517.6	452.4	382.0	361.6	359.0
45°	1811.0	1191.4	374.2	427.6	517.3	577.2	511.8	408.2	353.5	338.1	336.8
47.5°	1851.8	1116.8	358.2	424.9	525.9	568.6	487.5	394.6	339.9	331.8	332.6
50°	1898.6	1049.5	348.5	422.1	533.5	563.1	460.0	387.5	334.7	344.6	355.1
52.5°	1938.1	979.9	339.9	416.3	536.4	553.4	452.9	388.8	334.7	353.8	363.7
55°	1985.0	927.3	330.0	404.3	530.9	525.9	448.0	396.7	338.6	326.6	327.6
57.5°	2045.4	910.1	319.0	385.4	512.6	485.9	445.6	404.3	336.2	328.6	331.3
60°	2129.2	928.4	314.5	360.8	484.1	454.5	445.9	400.3	319.8	306.7	306.9
62.5°	2209.0	948.8	314.3	345.4	449.0	426.5	439.9	387.5	311.4	303.8	306.7
65°	2235.1	928.1	301.7	328.1	409.5	393.0	428.9	373.9	305.1	293.6	293.1
67.5°	2200.1	864.0	276.3	300.1	364.2	354.0	414.5	357.7	295.2	285.7	284.2
70°	2095.9	720.9	244.9	263.2	312.7	310.1	391.7	338.9	281.8	273.7	266.9
72.5°	*1815.7*	*513.6*	*206.5*	*219.0*	*254.6*	*263.0*	*360.3*	*314.3*	*263.0*	*245.4*	*235.0*
75°	1491.2	380.2	169.6	172.2	193.4	216.1	317.1	285.5	240.7	210.9	202.8
77.5°	913.2	232.6	135.0	136.1	138.7	172.4	261.1	253.3	212.5	175.8	170.1
80°	295.7	126.9	97.6	102.6	94.7	126.4	202.0	215.6	182.4	147.1	140.8
82.5°	112.5	74.1	65.9	69.3	65.7	84.8	147.3	172.7	149.4	120.9	98.4
85°	54.4	41.9	39.0	43.7	40.6	43.4	94.2	127.2	113.3	78.8	73.3
87.5°	19.4	18.6	14.9	20.1	17.3	15.4	28.8	64.1	74.8	54.2	48.4
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

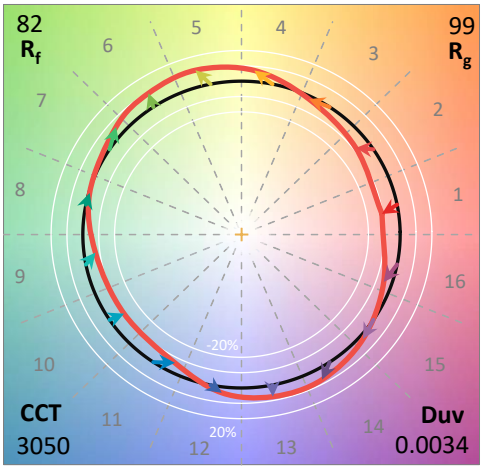
Test Information

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

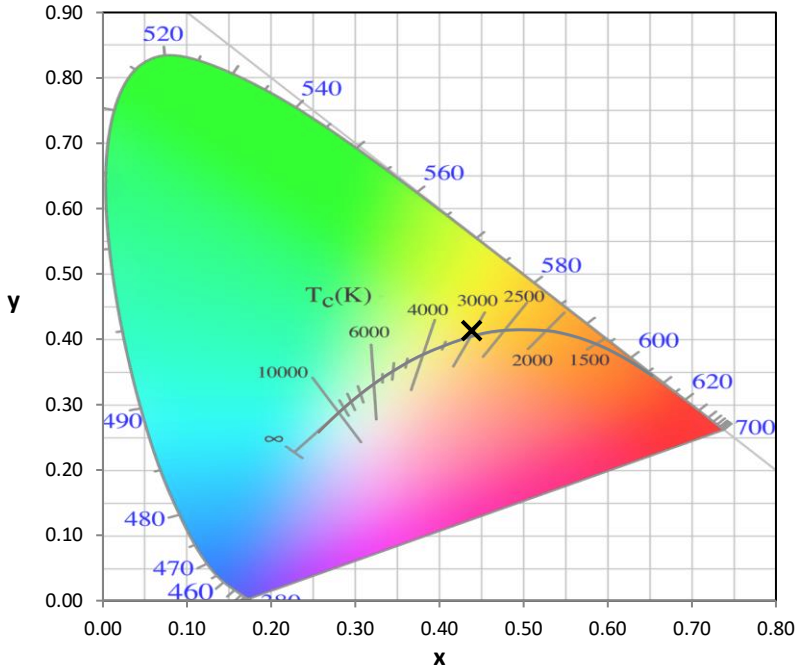
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

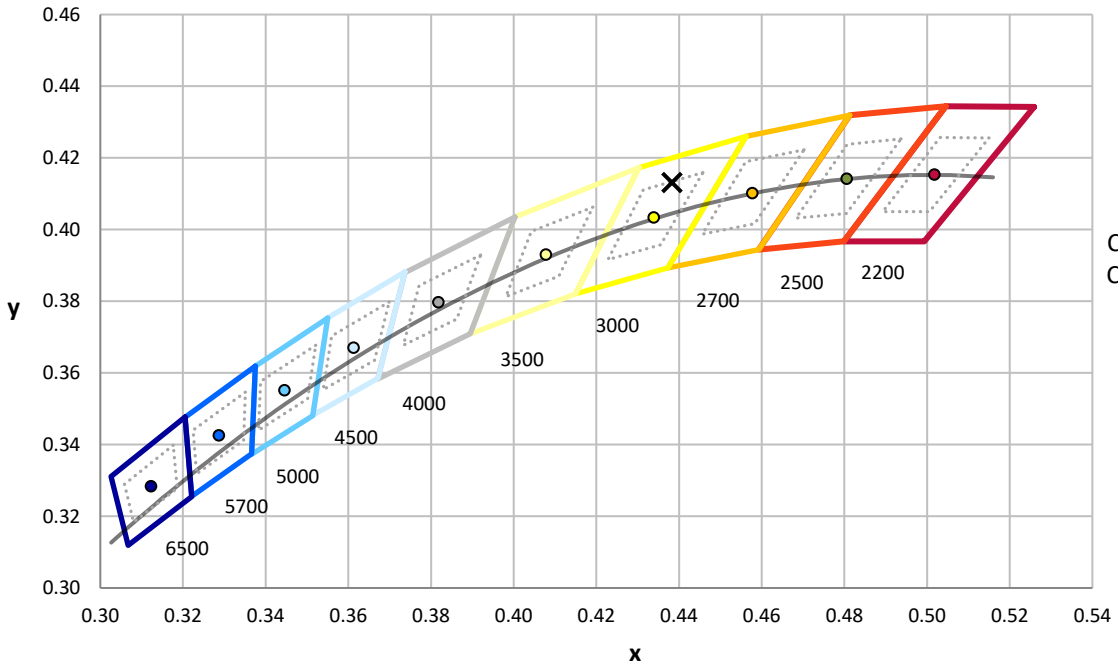
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

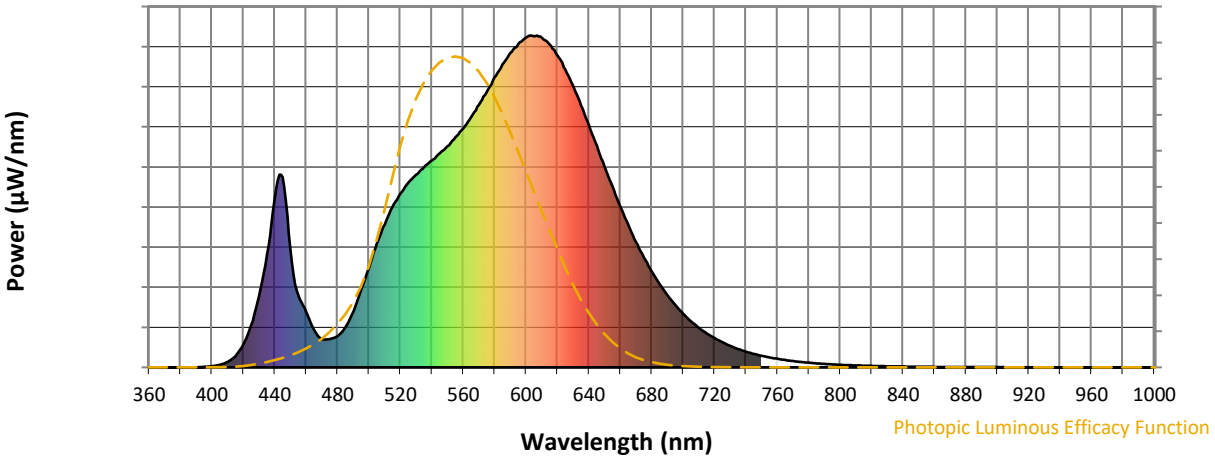


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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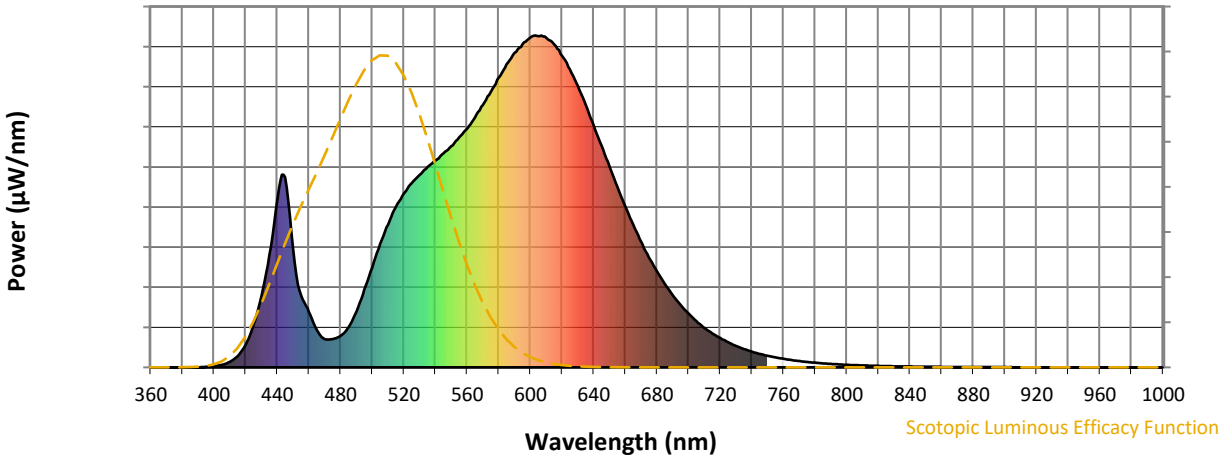
Scotopic Flux vs. Wavelength



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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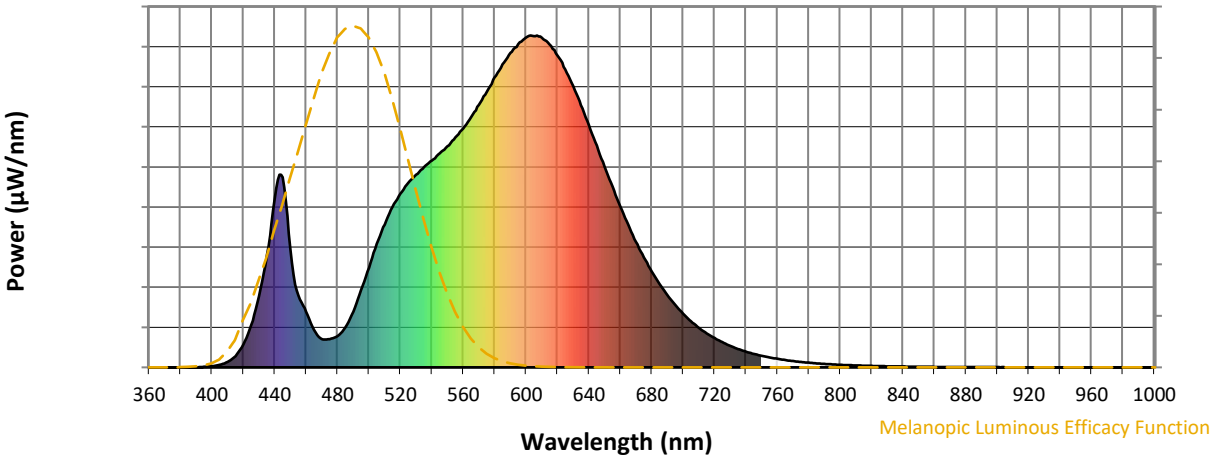
Melanopic Flux vs. Wavelength



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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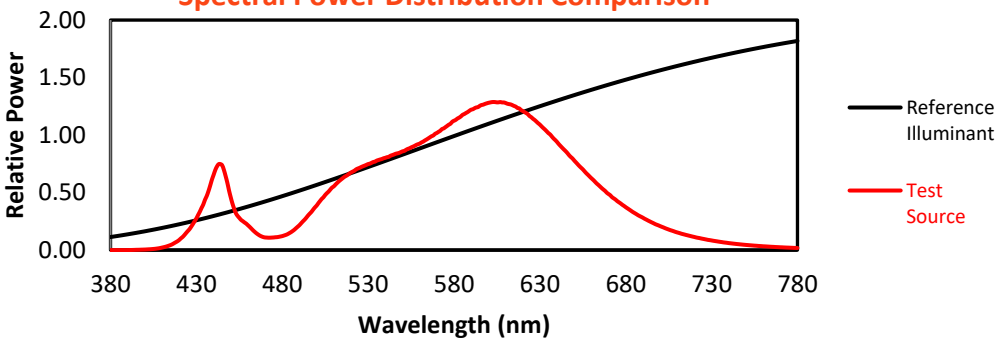
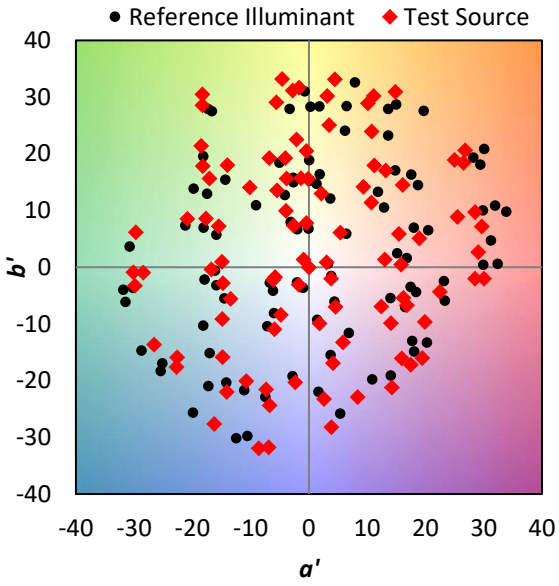
Summary

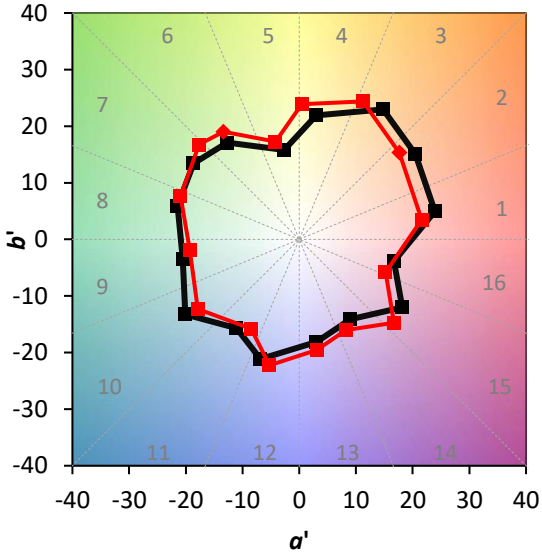
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

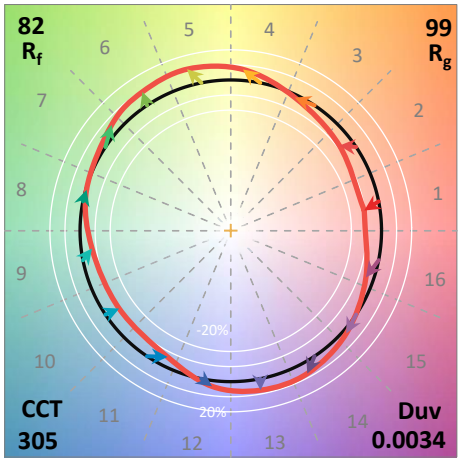
Spectral Power Distribution Comparison

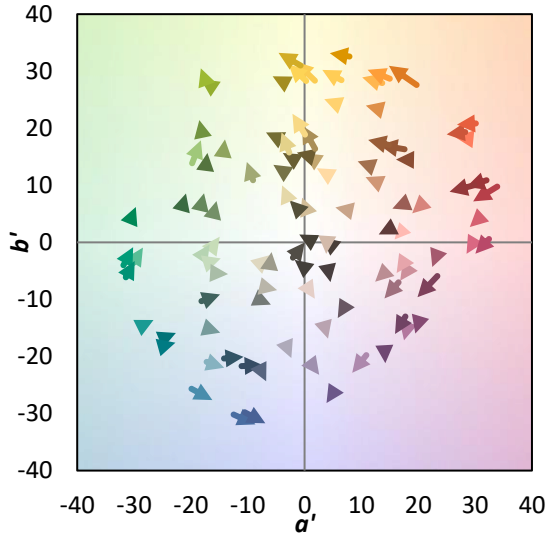


Color Vector Graphics









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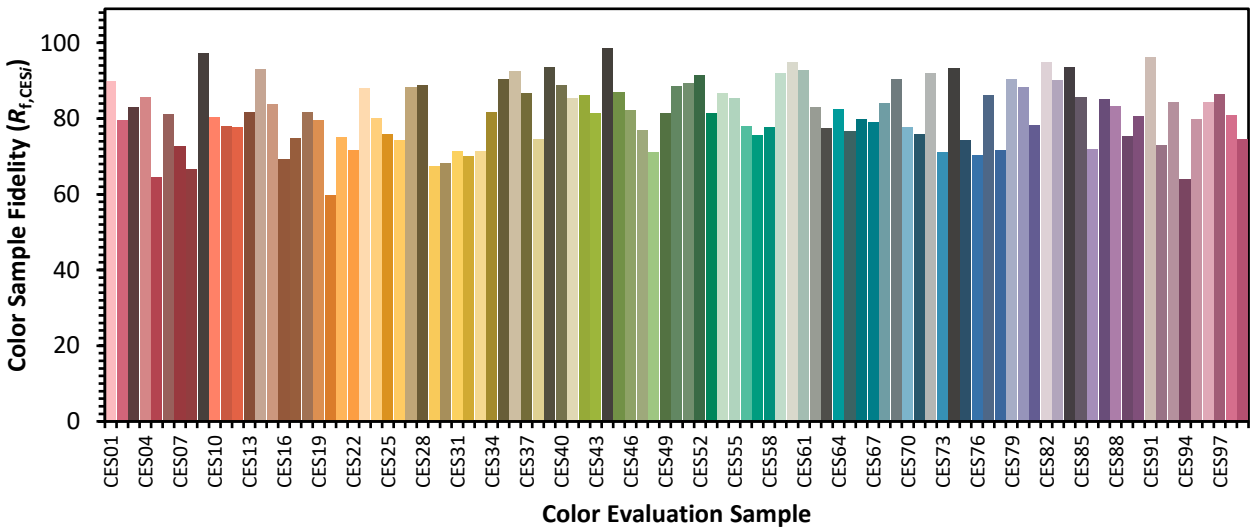
Individual Sample Fidelity Index ($R_{f,i}$)

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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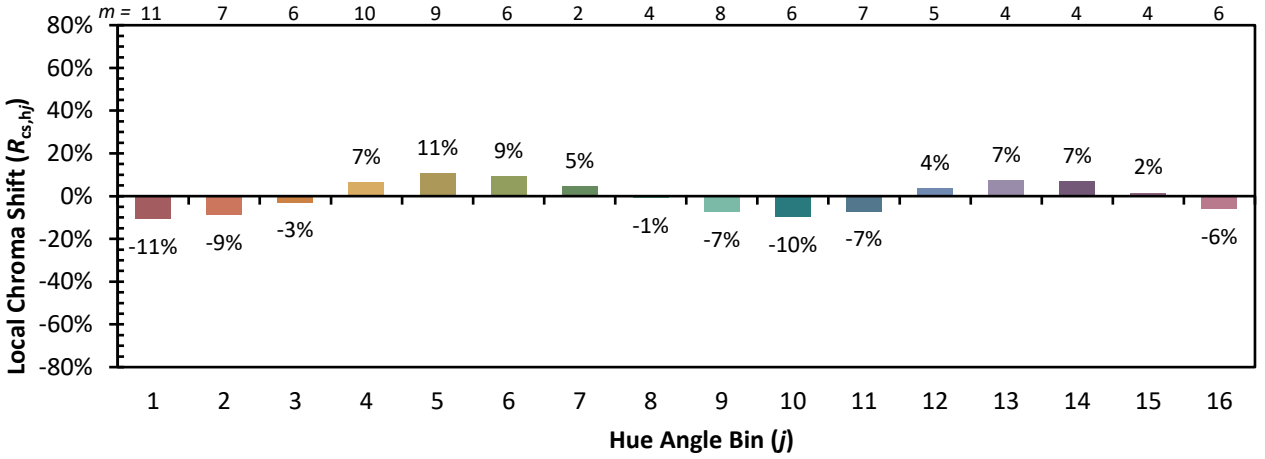
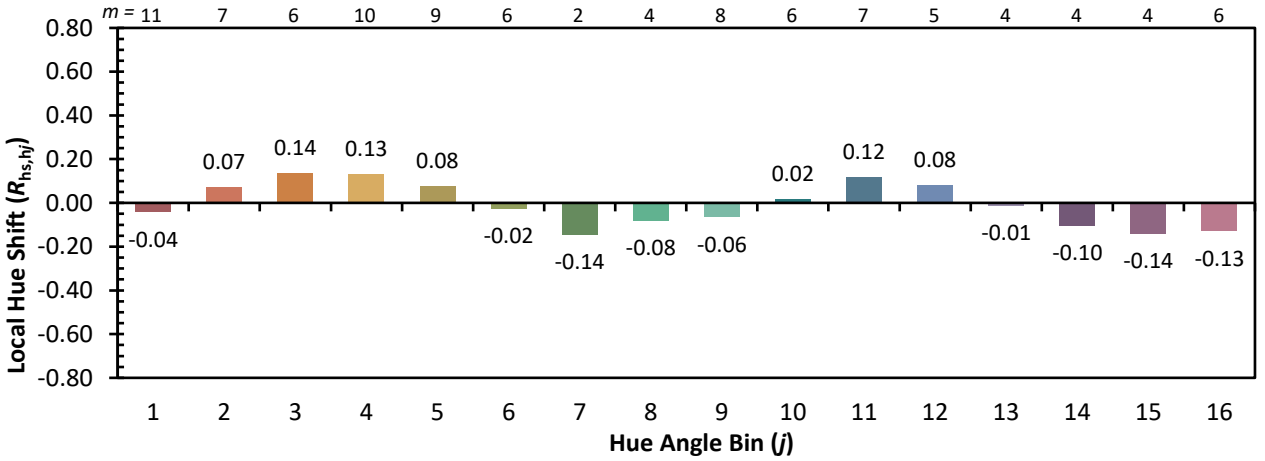
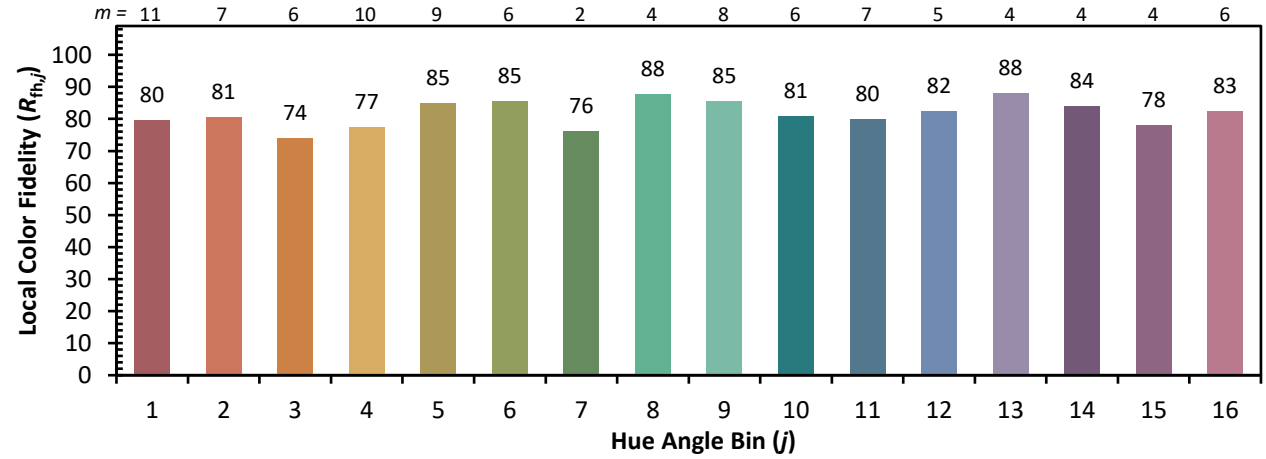
Color Rendition by Hue-Angle Bin







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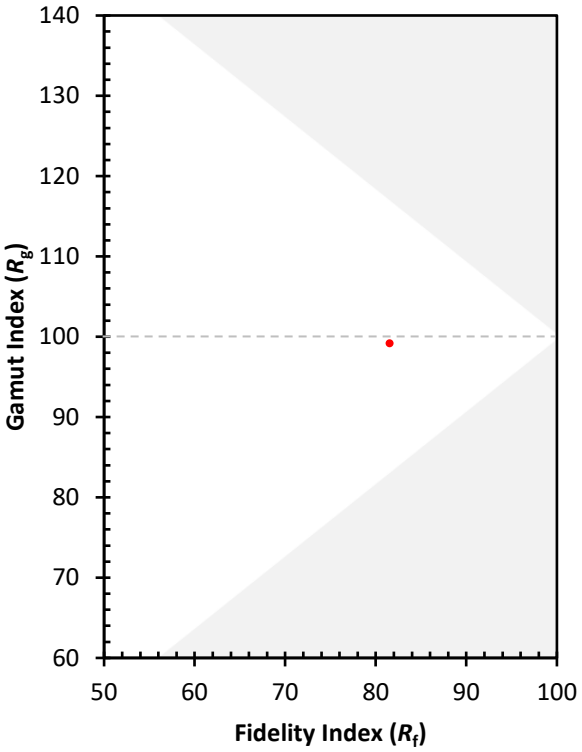
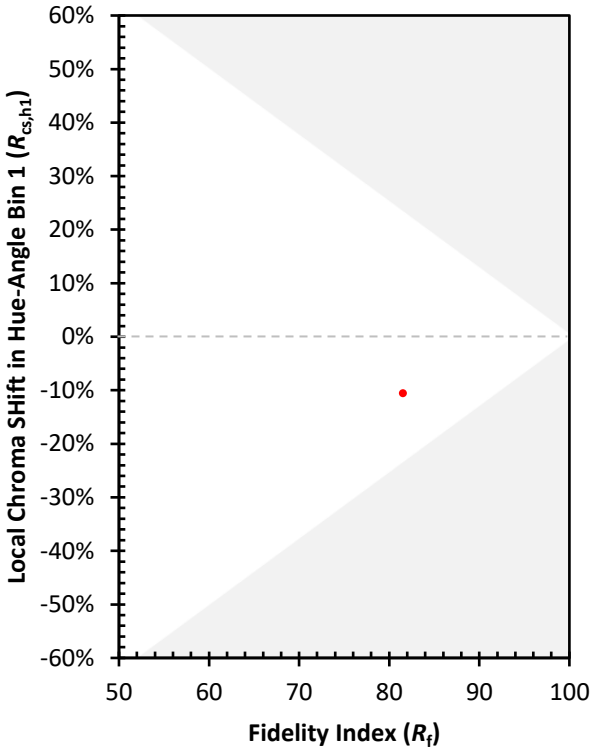
Measure Comparisons





(END OF REPORT)