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: P321114

Luminaire Tested: **GLEON-SA0A-830-U-AFL**

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:	P321114
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0A-830-U-AFL
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	37604 lumens
Efficiency:	N/A
Efficacy:	116.4 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	323
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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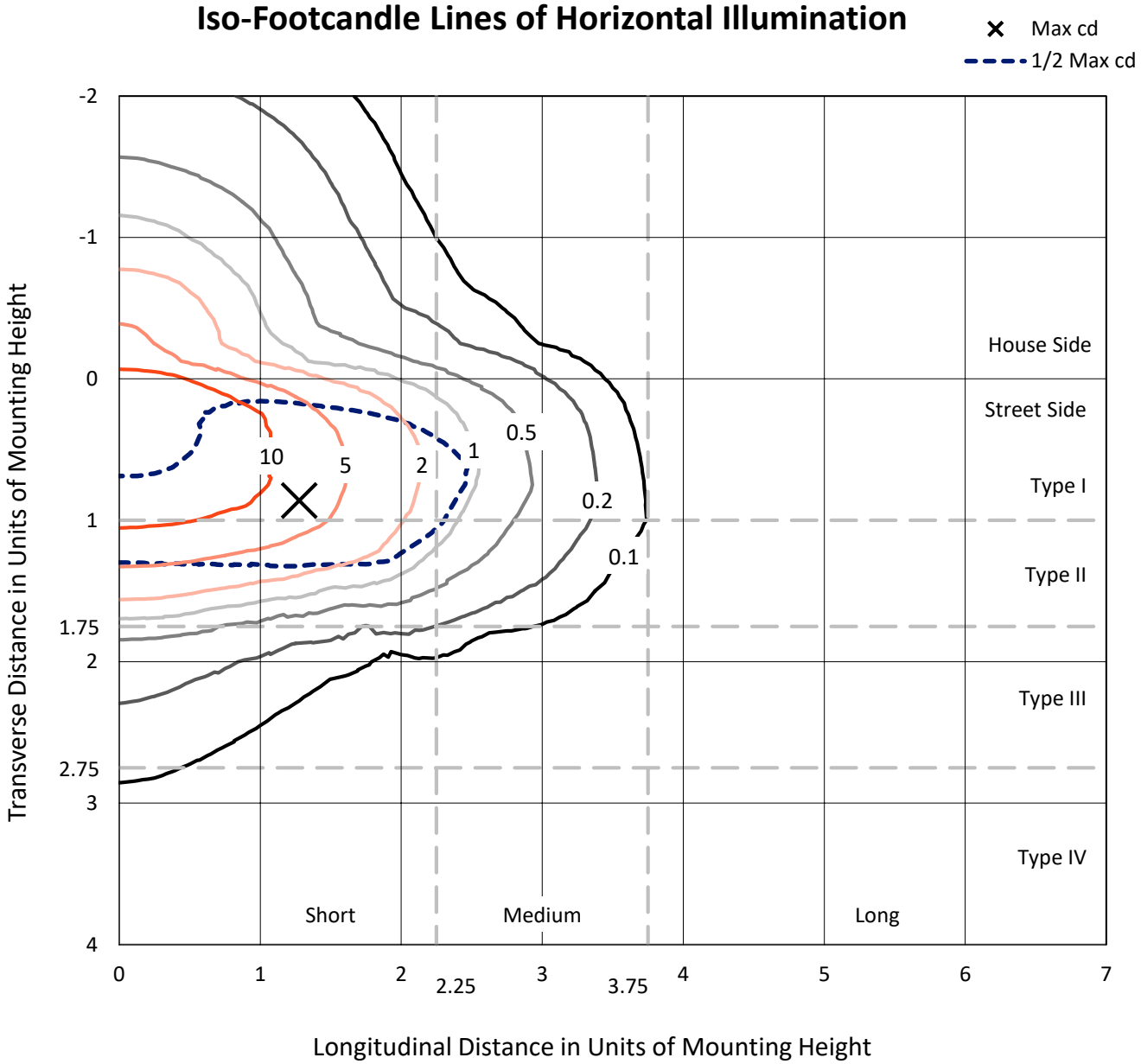
REPORT NUMBER: P321114
CATALOG NUMBER: GLEON-SA0A-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
Type II - Short - N/A

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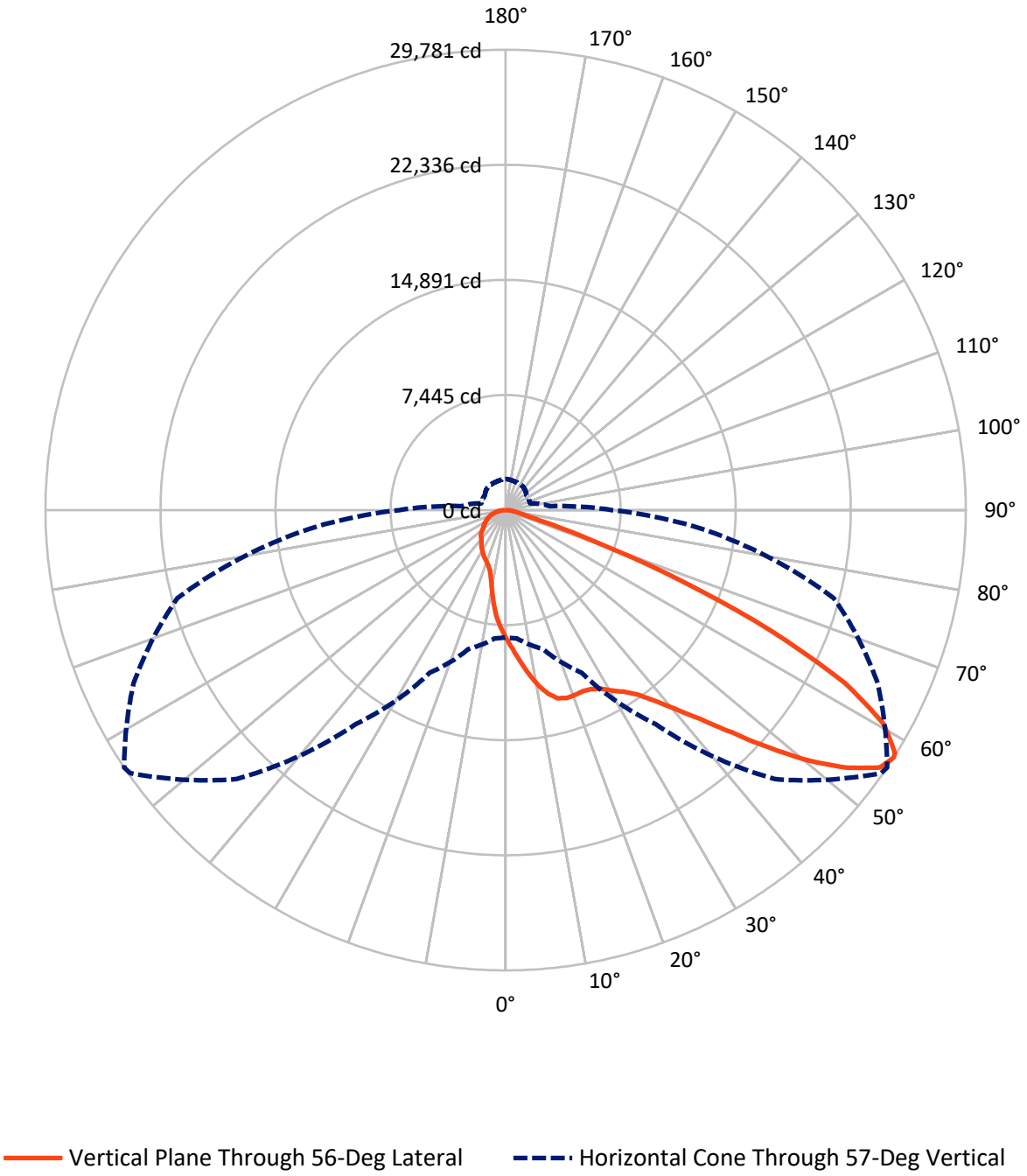
Luminous Intensity Polar Plot



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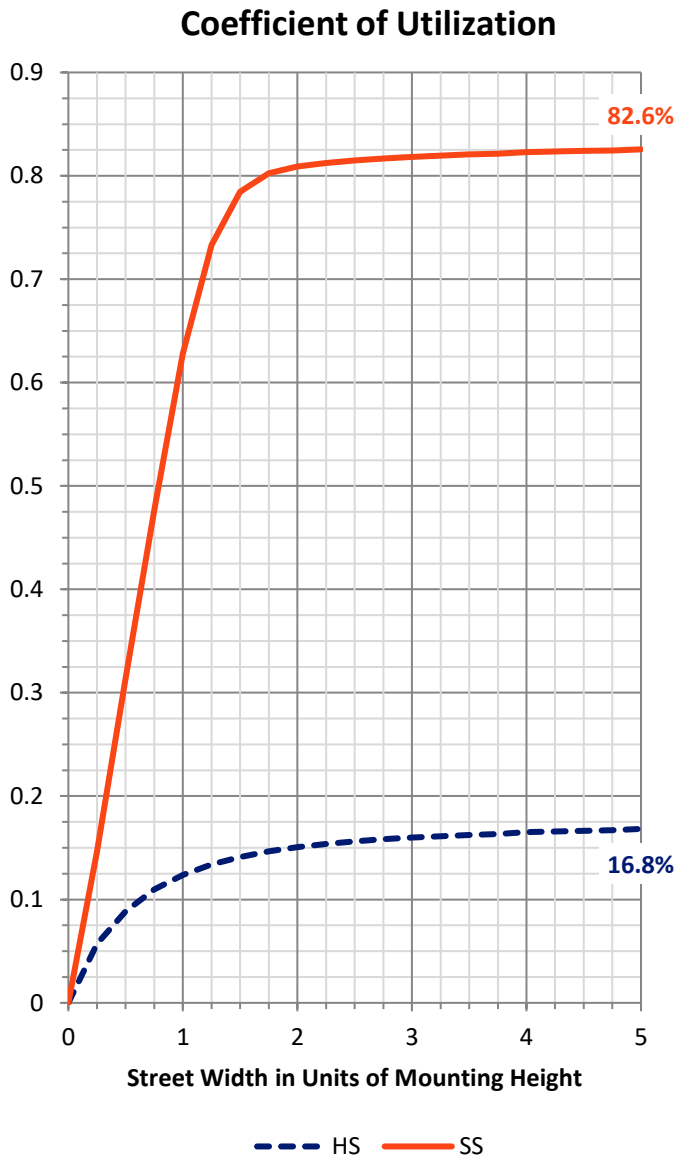
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6482.1	0.0	6482.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31121.9	0.0	31121.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	37604.0	0.0	37604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.7	2.1
10°-20°	2252.6	6.0
20°-30°	3669.0	9.8
30°-40°	5484.7	14.6
40°-50°	8319.2	22.1
50°-60°	9324.3	24.8
60°-70°	5507.3	14.6
70°-80°	1804.4	4.8
80°-90°	445.8	1.2
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°	37604.0	100.0
0°-180°	37604.0	100.0



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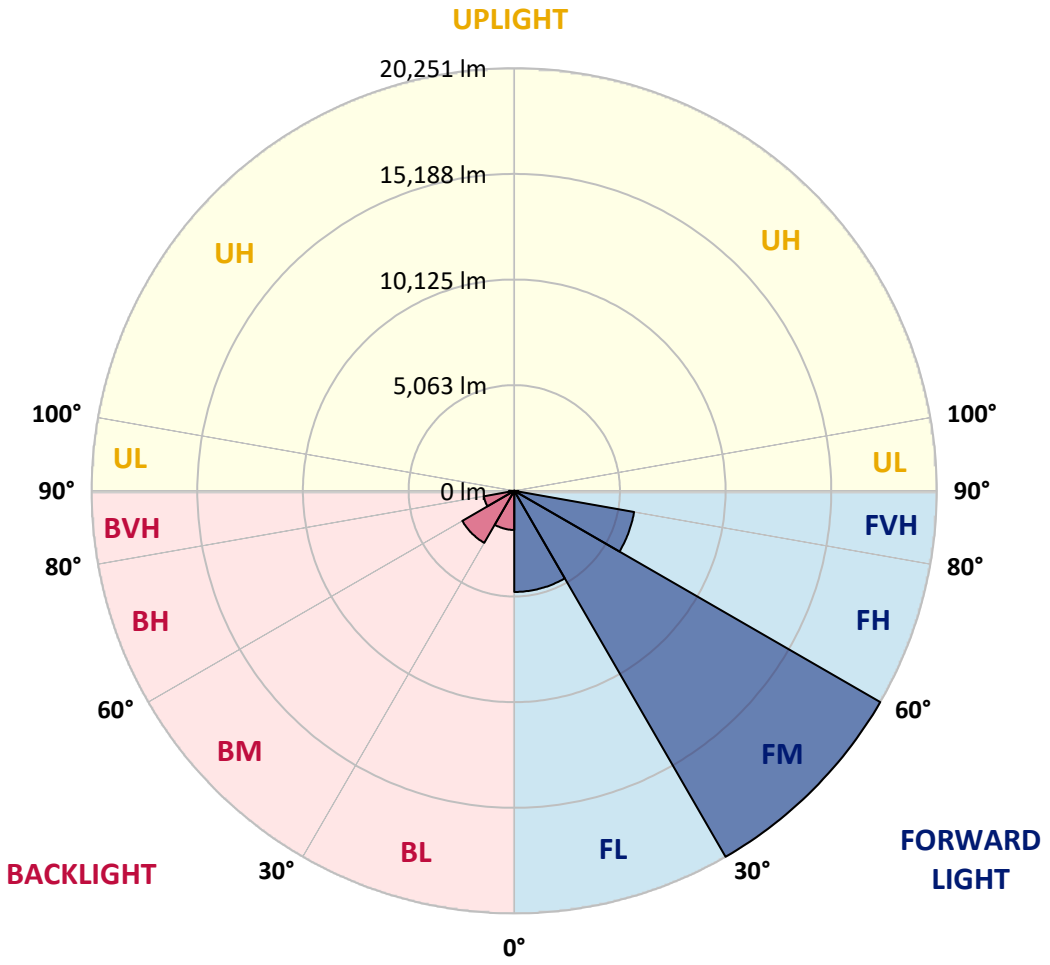
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4844.0	12.9			
FM	(30°-60°)	20251.0	53.9			
FH	(60°-80°)	5830.6	15.5			G3/7500
FVH	(80°-90°)	196.3	0.5			G2/225
BL	(0°-30°)	1874.3	5.0	B3/2500		
BM	(30°-60°)	2877.2	7.7	B3/5000		
BH	(60°-80°)	1481.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	249.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	*8340.6*	8340.6	8340.6	8340.6
2.5°	9577.3	9665.2	9626.5	9492.1	9388.7	9242.6	9079.8	*9030.7*	8858.8	8666.3	8434.9
5°	11093.2	11049.3	10986.0	10776.6	10555.6	10298.5	9890.1	*9825.5*	9442.9	9007.4	8547.4
7.5°	11956.5	11952.6	11915.1	11792.4	11590.8	11254.8	10762.4	*10686.2*	10108.5	9408.1	8694.7
10°	11831.1	11822.1	11884.1	12012.1	12072.8	12003.0	11588.2	*11511.9*	10802.5	9851.3	8865.3
12.5°	11119.1	11124.2	11223.8	11492.6	11858.3	12297.7	12230.5	*12193.0*	11522.3	10352.7	9072.1
15°	10564.7	10576.3	10655.1	10889.0	11320.7	12118.0	12620.7	*12633.7*	12218.8	10905.8	9313.7
17.5°	10321.7	10346.3	10382.5	10546.6	10942.0	11760.1	12713.8	*12783.6*	12828.8	11479.6	9546.3
20°	10399.3	10422.5	10432.9	10537.5	10861.9	11543.0	12649.2	*12774.5*	13296.6	12019.8	9778.9
22.5°	10746.9	10761.1	10767.6	10794.7	11046.7	11605.0	12606.5	*12738.3*	13635.2	12504.4	9954.7
25°	11323.3	11312.9	11271.6	11236.7	11406.0	11850.5	12704.7	*12830.1*	13910.5	12943.8	10069.7
27.5°	12013.4	12000.4	11920.3	11824.7	11921.6	12233.1	12987.8	*13087.3*	14157.3	13354.8	10127.9
30°	12841.7	12808.1	12656.9	12543.2	12580.7	12806.8	13454.3	*13544.8*	14538.5	13821.3	10184.7
32.5°	13799.3	13763.2	13544.8	13356.1	13356.1	13544.8	13935.0	*14010.0*	14861.6	14348.6	10276.5
35°	14998.6	14953.4	14669.1	14352.5	14263.3	14358.9	14590.2	*14643.2*	15443.2	15012.8	10443.2
37.5°	16412.4	16351.7	15983.4	15559.5	15364.3	15359.2	15525.9	*15634.4*	16372.3	15885.1	10726.2
40°	17830.1	17787.4	17465.6	17132.2	16749.7	16626.9	16884.1	*16917.7*	17587.1	16968.1	11088.1
42.5°	18926.0	18918.2	18858.8	18902.7	18511.1	18263.0	18464.6	*18491.7*	19070.7	18140.2	11473.2
45°	19504.9	19517.8	19806.0	20444.4	20589.2	20408.2	20507.7	*20515.5*	20766.2	19322.7	11826.0
47.5°	19041.0	19108.2	19837.0	21265.0	22450.1	23051.0	22885.6	*22981.2*	22410.0	20338.5	12102.5
50°	17233.0	17315.7	18556.4	20899.3	23318.5	25608.5	25521.9	*25500.0*	23736.0	21082.8	12252.4
52.5°	14993.4	15058.1	16081.6	18998.3	22681.4	27022.3	27817.1	*27703.4*	24914.5	21639.8	12280.9
55°	11583.0	11683.8	12664.7	15204.1	20104.5	26482.1	29504.8	*29402.8*	25988.5	21931.9	12247.3
57°	*8234.6*	*8340.6*	*9315.0*	*11603.7*	*16912.5*	*24612.1*	*29672.8*	*29781.4*	*26568.7*	*21981.0*	*12284.7*
57.5°	7348.1	7456.7	8422.0	10644.8	15917.4	23936.3	29528.1	*29709.0*	26673.4	21973.2	12305.4
60°	3699.9	3741.3	4356.4	5942.1	10062.0	19351.1	27640.0	*28106.6*	26767.7	21593.3	12394.6
62.5°	2300.3	2270.6	2251.2	2737.1	4895.3	12832.7	23743.7	*24641.9*	24962.4	20673.2	12178.8
65°	2022.5	1966.9	1753.7	1714.9	2162.0	6232.8	17880.5	*18998.3*	21104.8	19223.2	11664.4
67.5°	1899.7	1845.4	1605.1	1460.3	1461.6	2470.9	11101.0	*12359.7*	16440.8	16771.7	10451.0
70°	1773.1	1723.9	1499.1	1328.5	1244.5	1368.6	5107.2	*6062.2*	10717.2	13182.9	8734.8
72.5°	1610.2	1576.6	1363.4	1187.6	1098.5	1024.8	1955.3	*2309.4*	6204.4	8853.7	6066.1
75°	1439.6	1408.6	1226.4	1058.4	949.9	806.4	1101.1	*1186.3*	3152.0	4529.6	2986.5
77.5°	1252.3	1234.2	1090.7	935.6	849.1	668.1	779.3	*820.6*	1351.8	1942.3	1497.8
80°	996.4	1031.3	953.7	833.5	753.4	535.0	551.8	*579.0*	787.0	948.6	850.3
82.5°	648.7	709.5	747.0	677.2	620.3	421.3	396.7	*408.4*	513.0	579.0	369.6
85°	270.1	303.7	491.1	443.3	412.2	307.6	266.2	*271.4*	317.9	329.5	151.2
87.5°	120.2	127.9	215.8	202.9	174.5	106.0	113.7	*124.1*	169.3	160.2	58.2
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: P321114
CATALOG NUMBER: GLEON-SA0A-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6	8340.6
2.5°	8348.4	8239.8	8053.7	7848.2	7680.2	7545.8	7410.1	7317.1	7208.5	7150.4	7120.7
5°	8354.8	8141.6	7750.0	7348.1	6988.8	6660.6	6347.9	6107.5	5882.6	5761.1	5727.5
7.5°	8382.0	8061.5	7428.2	6766.6	6128.2	5545.3	5095.6	4813.9	4611.0	4520.5	4494.7
10°	8403.9	7967.1	7030.2	6050.6	5182.2	4591.6	4242.7	4085.0	4015.2	4003.6	3992.0
12.5°	8455.6	7870.2	6611.5	5303.7	4446.9	4038.5	3917.0	3906.7	3926.1	3954.5	3954.5
15°	8537.0	7774.6	6133.3	4662.7	3979.0	3835.6	3860.1	3917.0	3970.0	4013.9	4020.4
17.5°	8596.5	7657.0	5619.0	4149.6	3729.6	3768.4	3856.3	3936.4	3990.7	4033.3	4037.2
20°	8639.1	7474.8	5069.8	3758.1	3586.2	3706.4	3816.2	3887.3	3924.8	3967.4	3973.9
22.5°	8617.2	7230.5	4582.5	3477.6	3469.9	3615.9	3720.6	3805.9	3777.4	3736.1	3763.2
25°	8511.2	6894.5	4081.1	3268.3	3347.1	3494.4	3623.7	3566.8	3471.2	3453.1	3463.4
27.5°	8322.5	6465.5	3617.2	3074.4	3204.9	3382.0	3374.2	3317.4	3283.8	3260.5	3274.7
30°	8119.6	6000.2	3211.4	2905.1	3047.3	3193.3	3163.6	3162.3	3128.7	3091.2	3109.3
32.5°	7919.3	5532.4	2889.6	2765.6	2928.4	2947.8	3012.4	3031.8	2965.9	2887.0	2881.9
35°	7744.8	5090.4	2645.4	2638.9	2784.9	2787.5	2881.9	2854.7	2690.6	2609.2	2609.2
37.5°	7614.3	4649.7	2459.3	2525.2	2596.3	2663.5	2711.3	2598.8	2571.7	2526.5	2525.2
40°	7557.5	4262.1	2343.0	2438.6	2463.2	2548.4	2425.7	2469.6	2482.5	2459.3	2459.3
42.5°	7498.0	3924.8	2242.2	2372.7	2368.8	2357.2	2295.2	2352.0	2403.7	2405.0	2401.1
45°	7438.6	3634.0	2153.0	2231.8	2286.1	2160.8	2172.4	2233.1	2305.5	2331.3	2331.3
47.5°	7372.7	3404.0	2071.6	2083.2	2167.2	2083.2	2074.2	2120.7	2206.0	2247.3	2256.4
50°	7227.9	3197.2	1978.5	1952.7	1975.9	2004.4	2012.1	2034.1	2128.4	2194.4	2209.9
52.5°	7027.6	3012.4	1859.6	1832.5	1832.5	1939.8	1975.9	1982.4	2062.5	2141.4	2156.9
55°	6860.9	2894.8	1736.9	1731.7	1726.5	1871.3	1933.3	1943.6	1999.2	2061.2	2069.0
57°	*6872.5*	*2885.7*	*1642.5*	*1647.7*	*1646.4*	*1801.5*	*1893.2*	*1915.2*	*1943.6*	*1996.6*	*2005.7*
57.5°	6879.0	2892.2	1621.9	1624.4	1623.1	1782.1	1881.6	1906.2	1928.1	1983.7	1992.7
60°	6975.9	2909.0	1537.9	1509.4	1515.9	1678.7	1815.7	1846.7	1860.9	1934.6	1946.2
62.5°	6832.5	2834.0	1470.7	1402.2	1402.2	1570.2	1723.9	1773.1	1795.0	1894.5	1913.9
65°	6416.3	2623.4	1391.8	1280.7	1293.6	1461.6	1614.1	1694.2	1727.8	1851.9	1872.6
67.5°	5774.1	2379.2	1307.8	1172.1	1185.1	1347.9	1500.4	1587.0	1639.9	1805.4	1822.2
70°	4937.9	2080.6	1194.1	1057.1	1072.6	1223.8	1366.0	1464.2	1543.0	1761.4	1766.6
72.5°	3640.5	1705.9	1035.1	930.5	947.3	1079.1	1230.3	1344.0	1450.0	1651.6	1649.0
75°	2164.6	1333.7	859.4	802.5	814.2	936.9	1107.5	1245.8	1404.7	1608.9	1633.5
77.5°	1313.0	1004.1	700.4	672.0	686.2	811.6	1019.6	1167.0	1385.4	1517.2	1509.4
80°	793.5	717.2	559.6	541.5	555.7	694.0	943.4	1107.5	1210.9	1296.2	1296.2
82.5°	414.8	438.1	411.0	396.7	416.1	563.4	858.1	966.7	1070.0	918.8	858.1
85°	169.3	228.7	249.4	248.1	259.8	390.3	740.5	827.1	690.1	655.2	670.7
87.5°	56.9	96.9	121.5	104.7	109.8	245.5	513.0	399.3	474.3	330.8	314.0
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

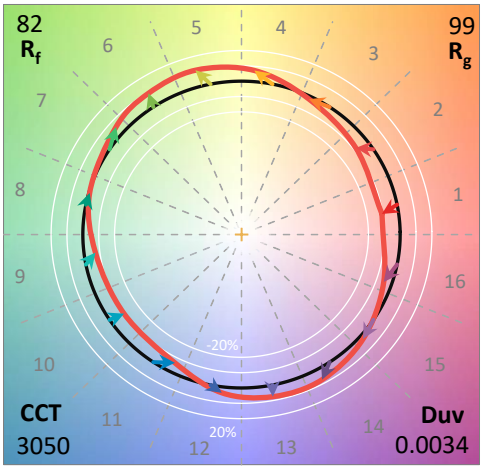
Test Information

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

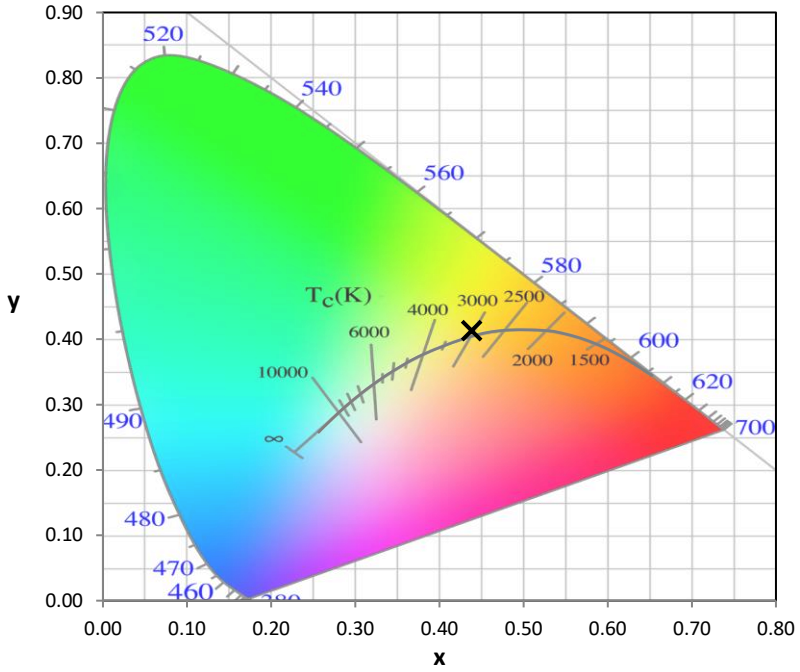
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

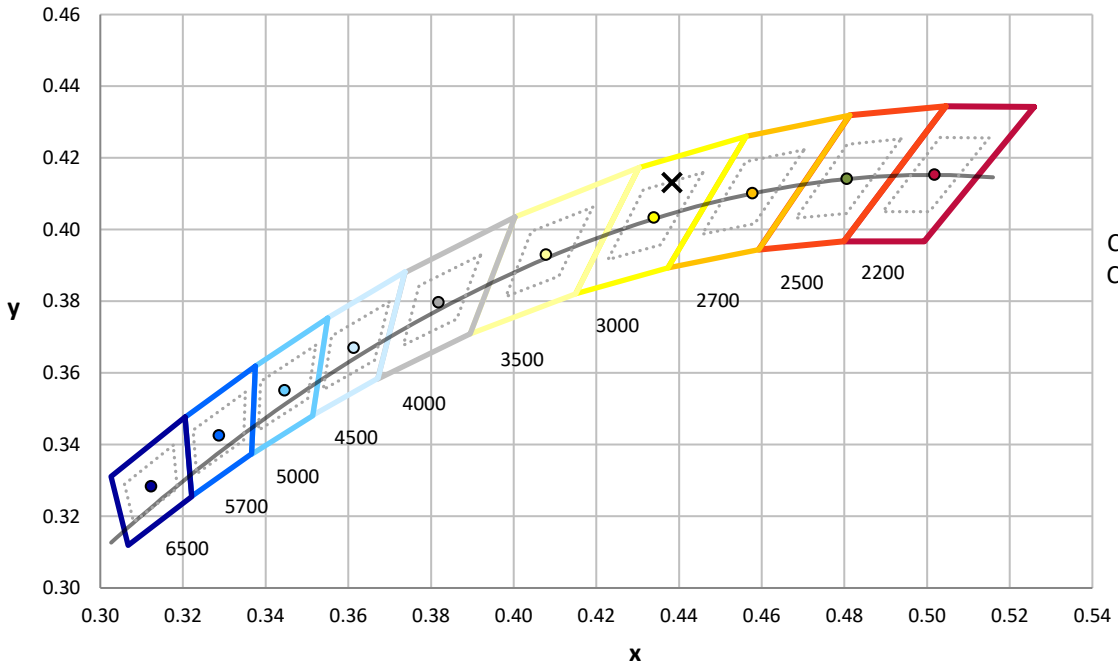
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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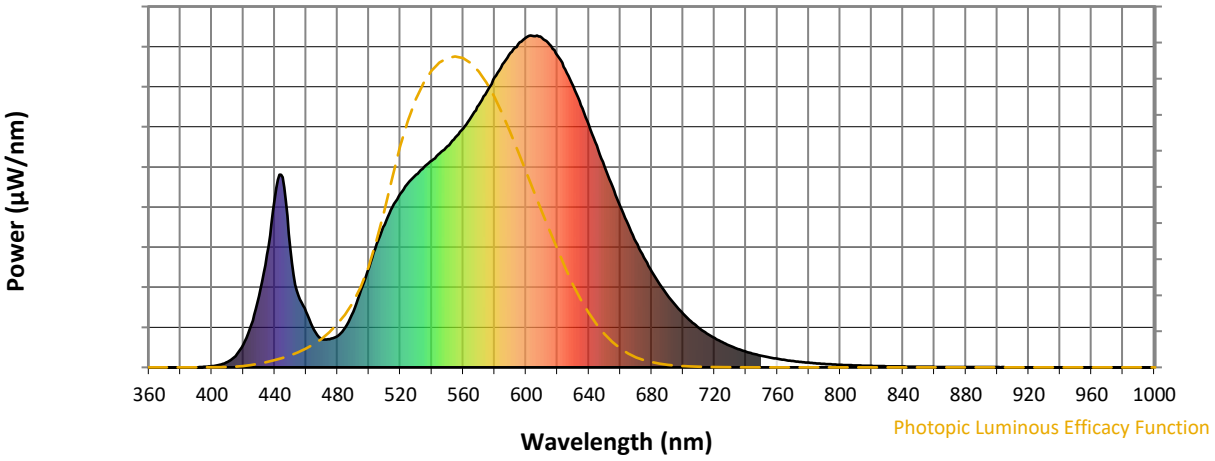
Photopic Flux vs. Wavelength



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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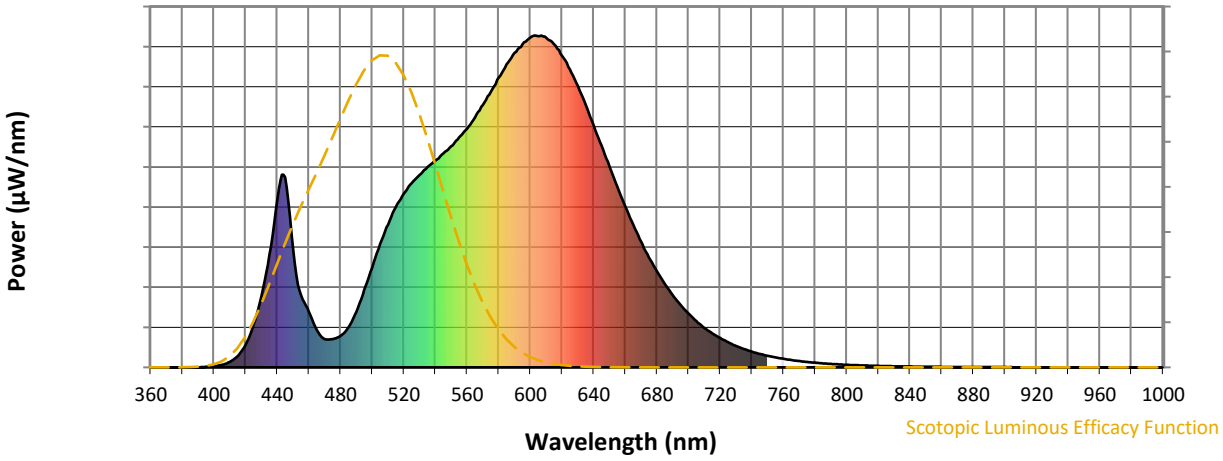
Scotopic Flux vs. Wavelength



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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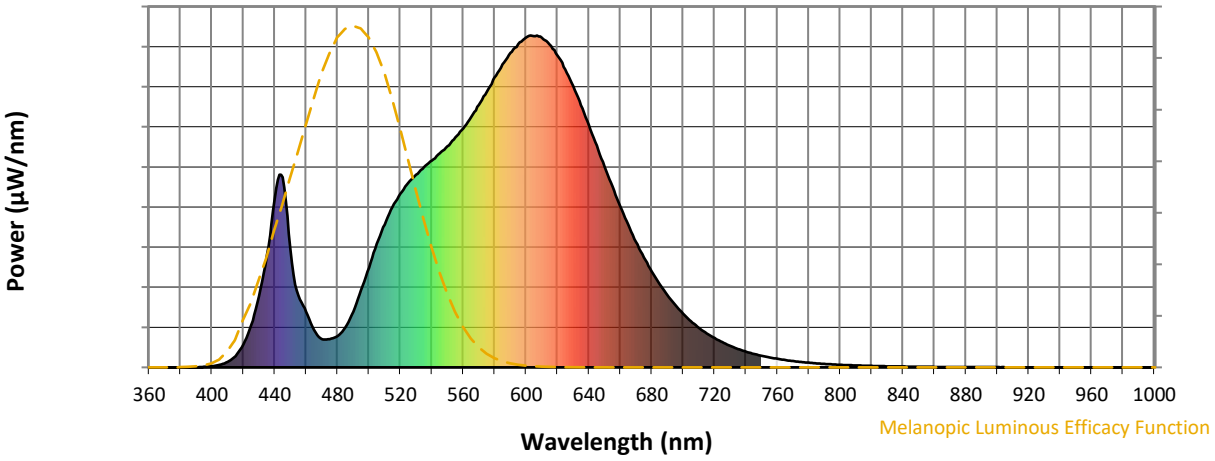
Melanopic Flux vs. Wavelength



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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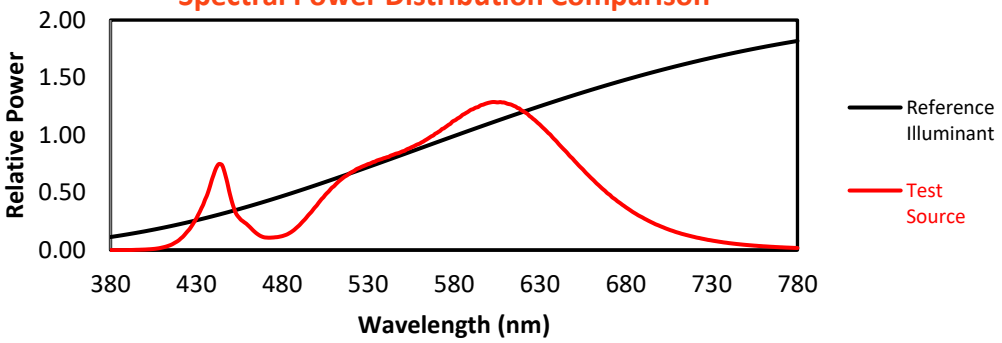
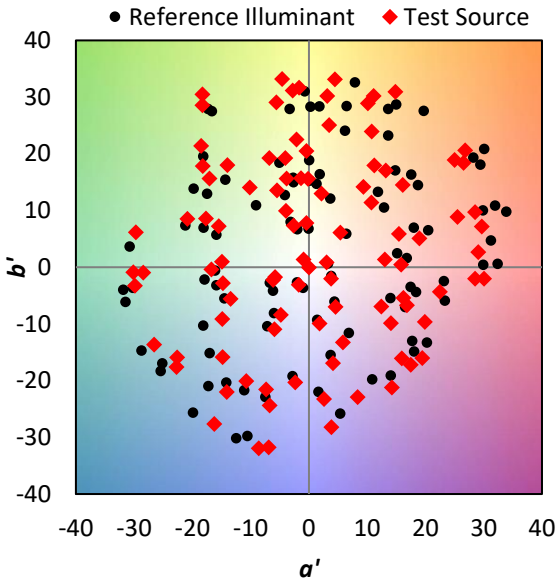
Summary

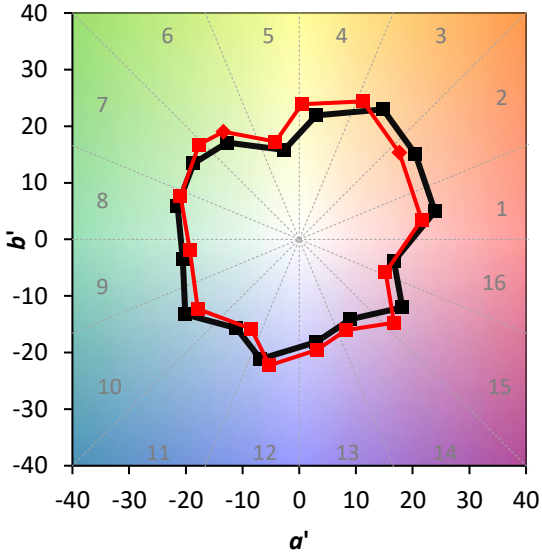
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

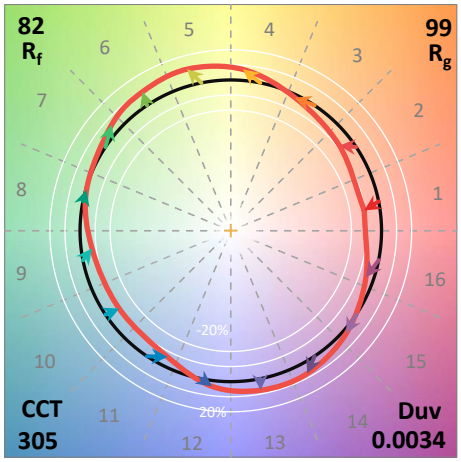
Spectral Power Distribution Comparison

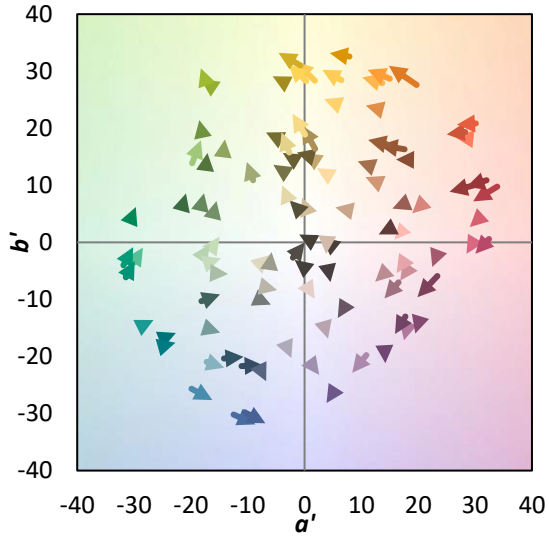


Color Vector Graphics









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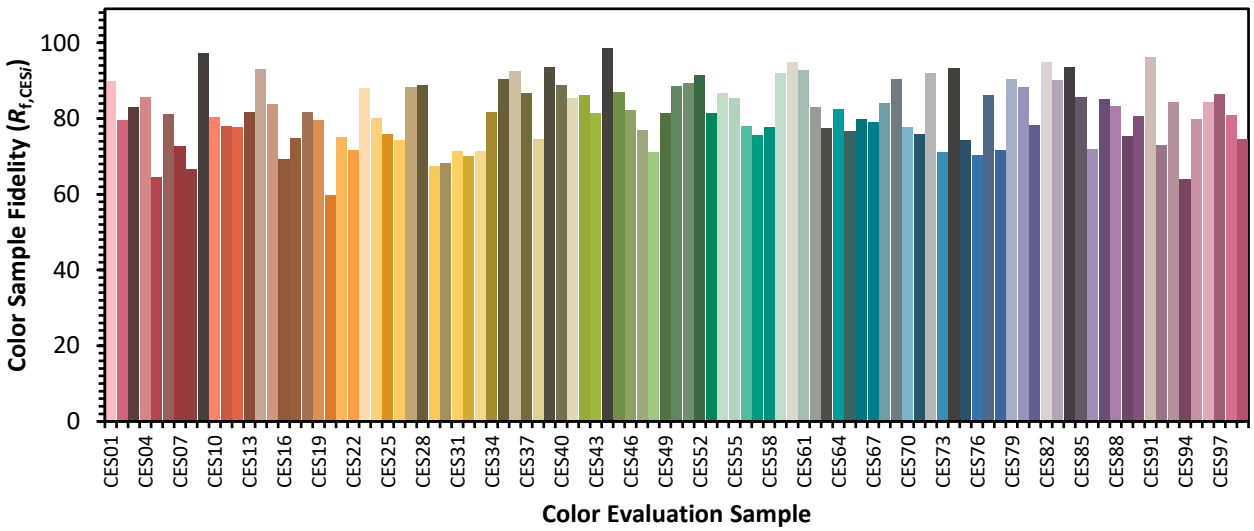
Individual Sample Fidelity Index ($R_{f,i}$)

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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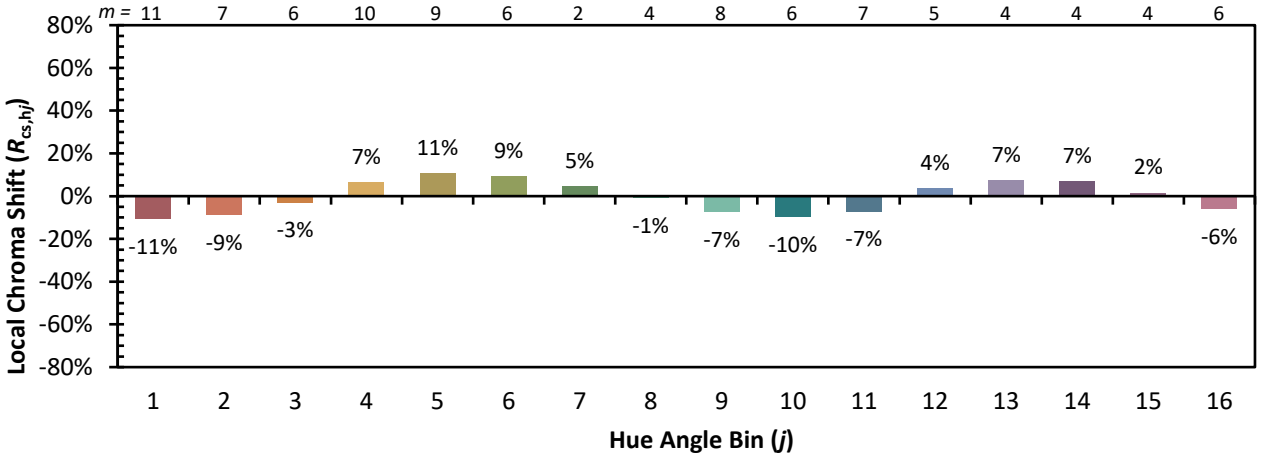
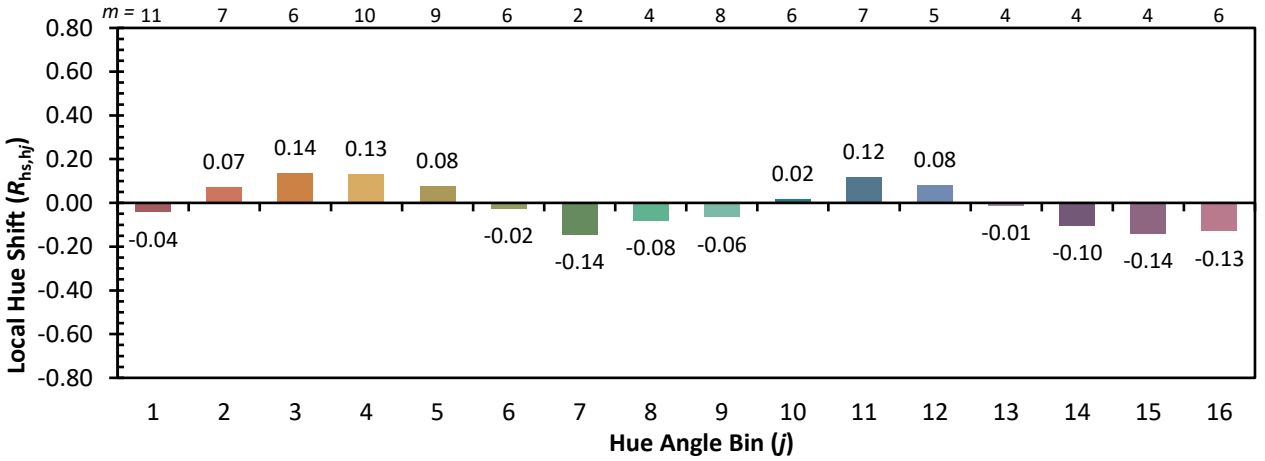
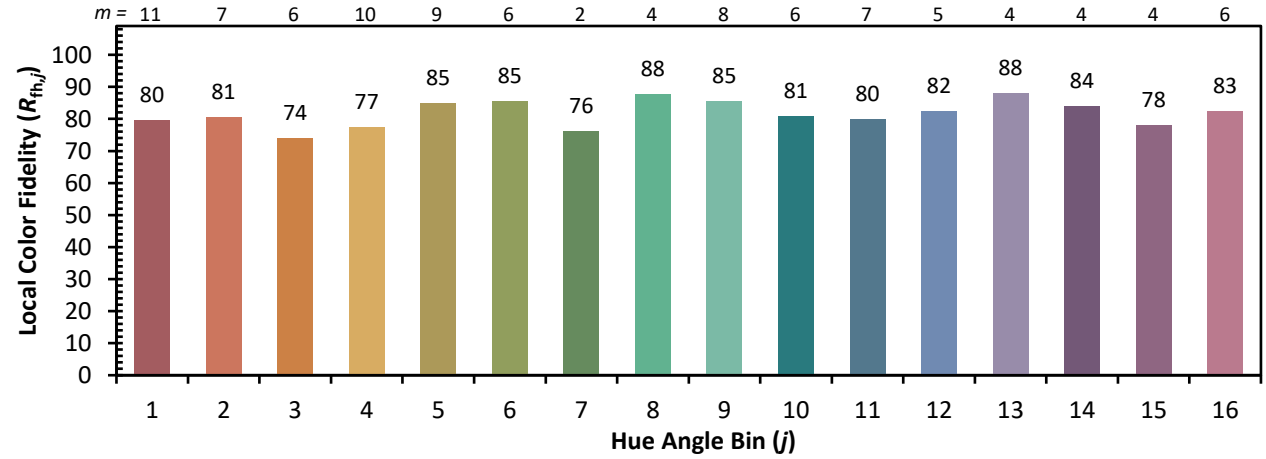
Color Rendition by Hue-Angle Bin







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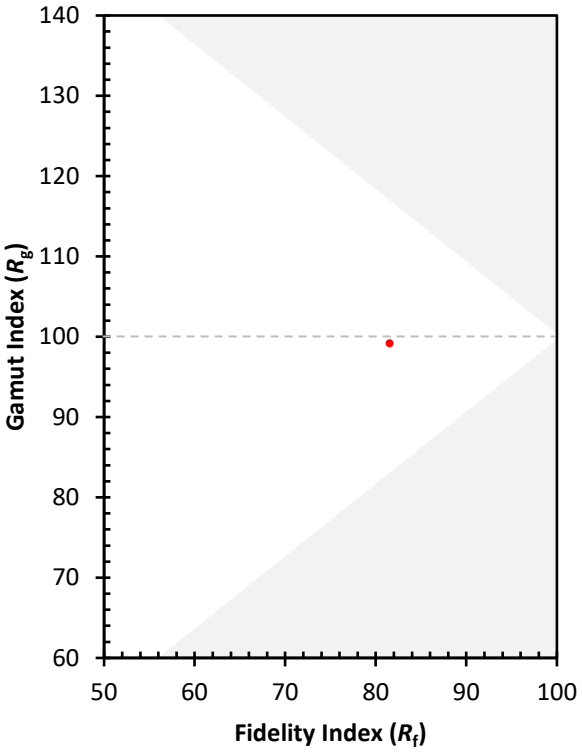
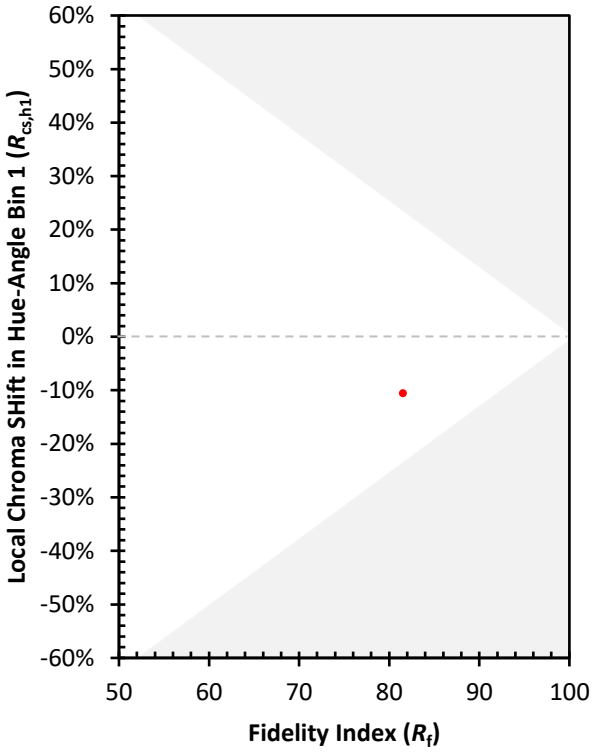
Measure Comparisons





(END OF REPORT)