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: P321112

Luminaire Tested: **GLEON-SA8A-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:	P321112
	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-SA8A-830-U-AFL
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 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:	30448 lumens
Efficiency:	N/A
Efficacy:	118.5 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	257
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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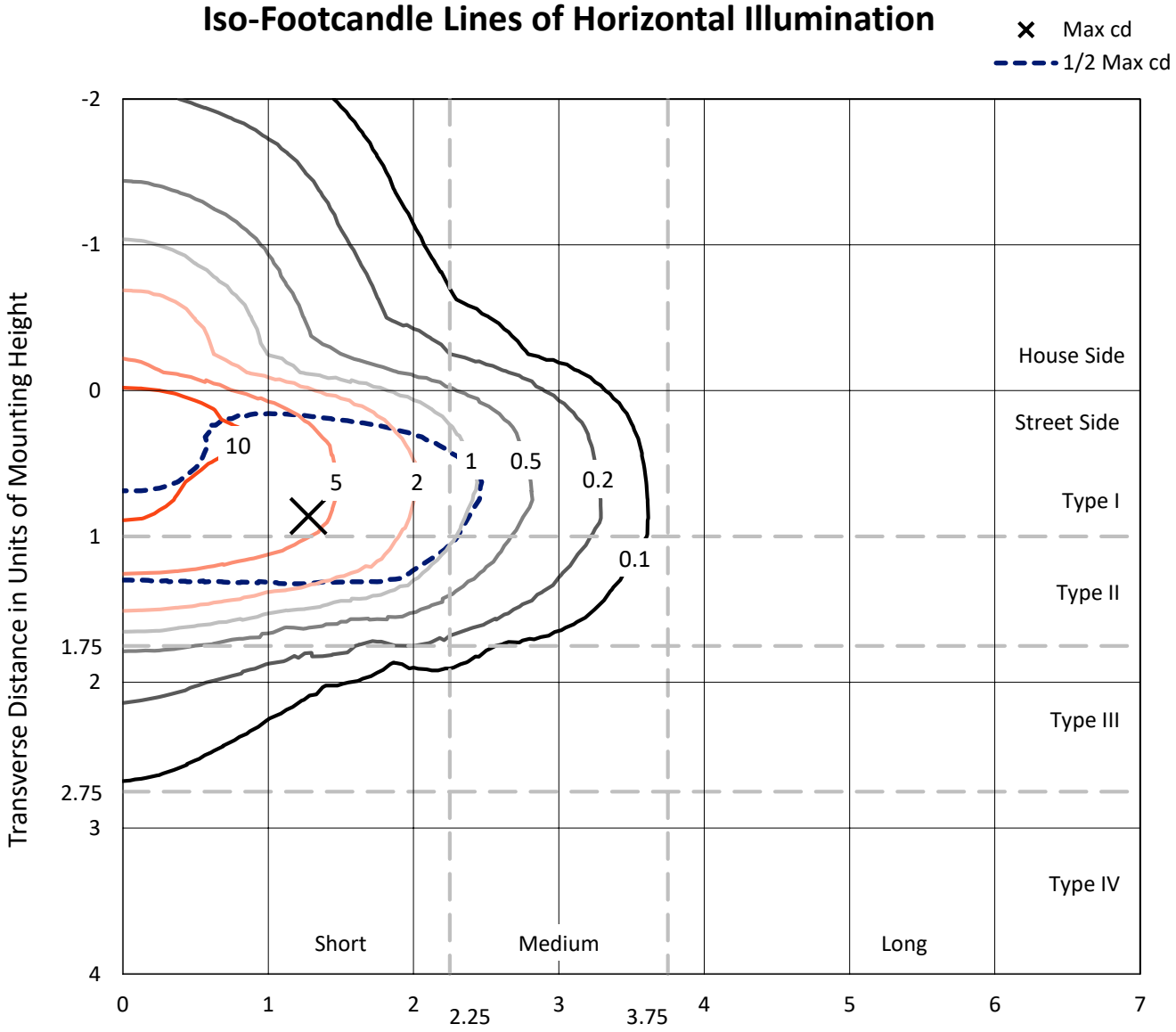
REPORT NUMBER: P321112
CATALOG NUMBER: GLEON-SA8A-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 15 fc
Type II - Short - N/A

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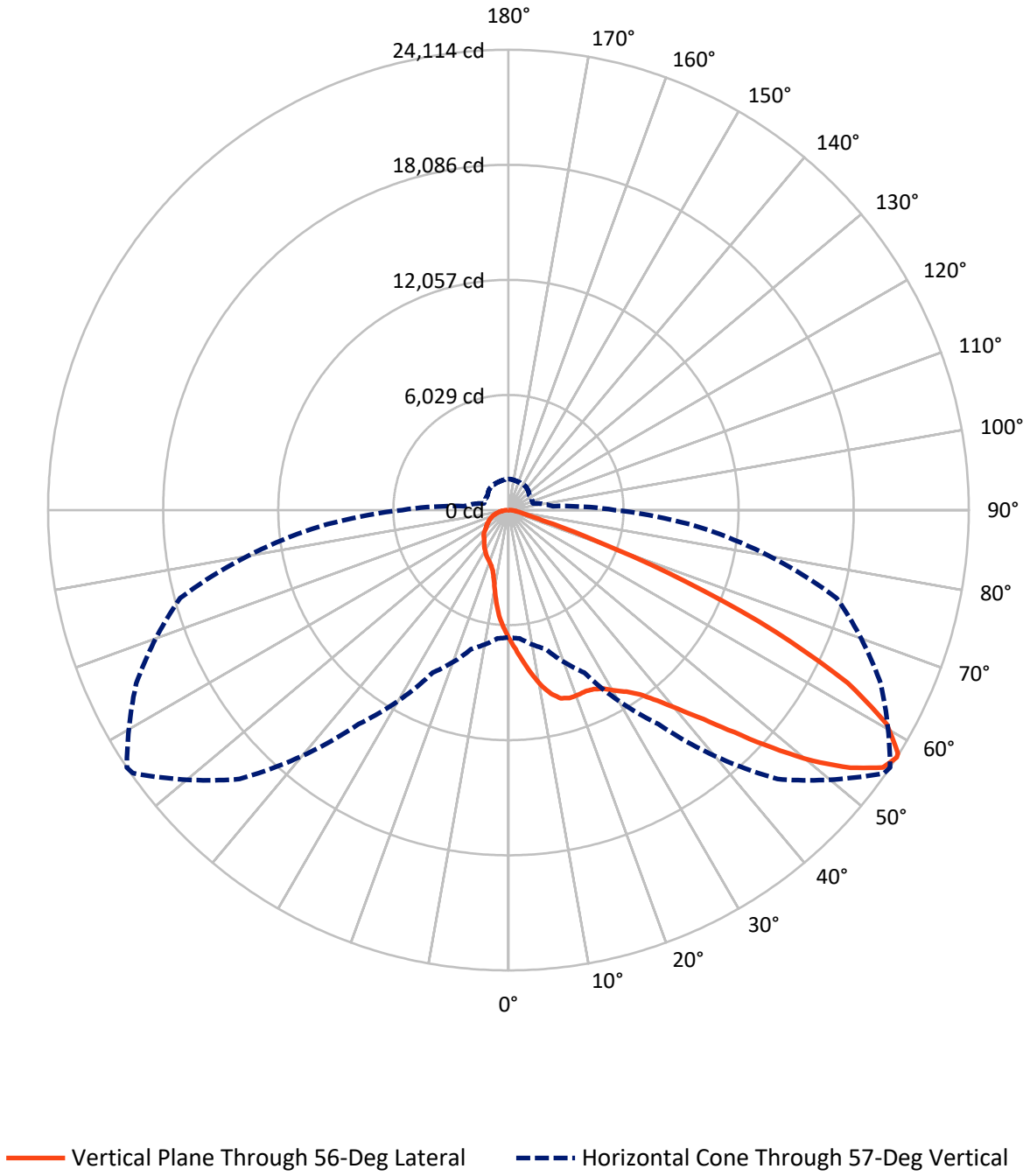
Luminous Intensity Polar Plot



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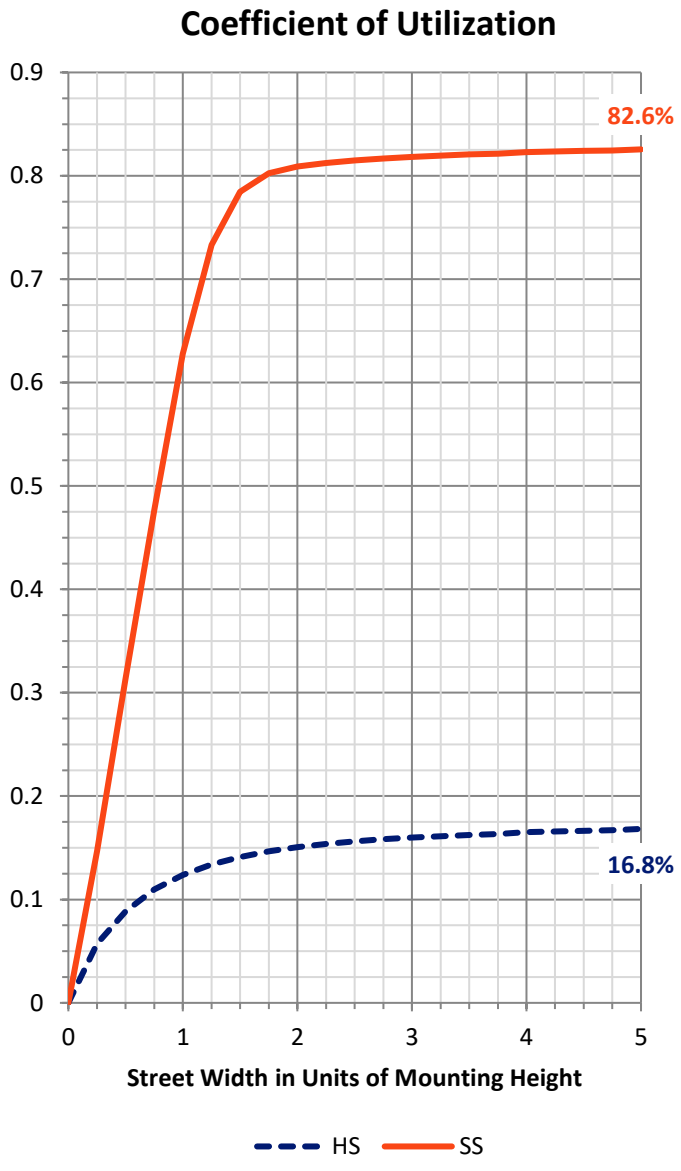
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5248.6	0.0	5248.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	25199.4	0.0	25199.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	30448.0	0.0	30448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.1	2.1
10°-20°	1823.9	6.0
20°-30°	2970.8	9.8
30°-40°	4441.0	14.6
40°-50°	6736.0	22.1
50°-60°	7549.9	24.8
60°-70°	4459.3	14.6
70°-80°	1461.0	4.8
80°-90°	361.0	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°	30448.0	100.0
0°-180°	30448.0	100.0



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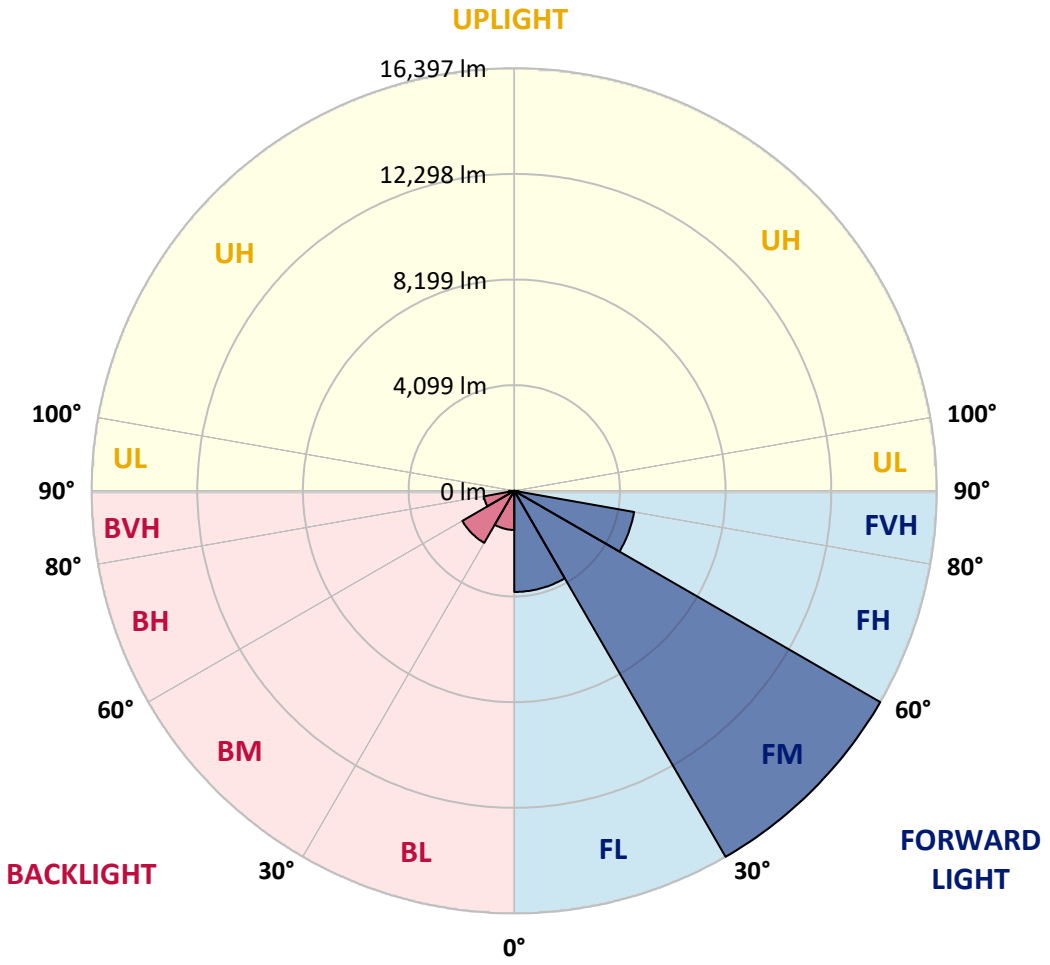
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3922.2	12.9			
FM	(30°-60°)	16397.3	53.9			
FH	(60°-80°)	4721.1	15.5			G2/5000
FVH	(80°-90°)	158.9	0.5			G2/225
BL	(0°-30°)	1517.6	5.0	B3/2500		
BM	(30°-60°)	2329.7	7.7	B2/2500		
BH	(60°-80°)	1199.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	202.0	0.7			G2/225
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°	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	*6753.4*	6753.4	6753.4	6753.4
2.5°	7754.8	7825.9	7794.6	7685.7	7602.0	7483.8	7351.9	*7312.2*	7173.0	7017.1	6829.8
5°	8982.2	8946.6	8895.4	8725.8	8546.9	8338.7	8008.0	*7955.7*	7646.0	7293.3	6920.8
7.5°	9681.2	9678.1	9647.7	9548.3	9385.1	9113.0	8714.3	*8652.6*	8184.9	7617.7	7040.1
10°	9579.7	9572.4	9622.6	9726.2	9775.4	9718.9	9383.0	*9321.2*	8746.8	7976.6	7178.2
12.5°	9003.1	9007.3	9087.9	9305.5	9601.7	9957.4	9903.0	*9872.7*	9329.6	8382.6	7345.7
15°	8554.2	8563.6	8627.5	8816.9	9166.4	9812.0	10219.0	*10229.5*	9893.6	8830.5	7541.3
17.5°	8357.5	8377.4	8406.7	8539.6	8859.8	9522.1	10294.4	*10350.9*	10387.5	9295.1	7729.7
20°	8420.3	8439.1	8447.5	8532.3	8794.9	9346.3	10242.1	*10343.6*	10766.3	9732.5	7918.0
22.5°	8701.8	8713.3	8718.5	8740.5	8944.5	9396.6	10207.5	*10314.3*	11040.4	10124.9	8060.3
25°	9168.5	9160.1	9126.6	9098.4	9235.4	9595.4	10287.0	*10388.5*	11263.3	10480.6	8153.5
27.5°	9727.2	9716.8	9651.9	9574.5	9652.9	9905.1	10516.2	*10596.8*	11463.2	10813.4	8200.6
30°	10398.0	10370.8	10248.3	10156.3	10186.6	10369.7	10894.0	*10967.2*	11771.9	11191.1	8246.6
32.5°	11173.3	11144.0	10967.2	10814.4	10814.4	10967.2	11283.2	*11343.9*	12033.5	11618.1	8320.9
35°	12144.4	12107.8	11877.6	11621.2	11549.0	11626.4	11813.7	*11856.6*	12504.3	12155.9	8455.9
37.5°	13289.1	13240.0	12941.7	12598.5	12440.5	12436.3	12571.3	*12659.2*	13256.7	12862.2	8685.0
40°	14437.0	14402.5	14141.9	13872.0	13562.2	13462.8	13671.1	*13698.3*	14240.3	13739.1	8978.0
42.5°	15324.4	15318.1	15270.0	15305.5	14988.5	14787.6	14950.8	*14972.8*	15441.6	14688.2	9289.8
45°	15793.1	15803.6	16037.0	16553.9	16671.1	16524.6	16605.1	*16611.4*	16814.4	15645.6	9575.5
47.5°	15417.5	15471.9	16062.1	17218.3	18177.9	18664.4	18530.5	*18607.9*	18145.4	16468.1	9799.4
50°	13953.6	14020.6	15025.1	16922.2	18881.0	20735.2	20665.1	*20647.3*	19219.0	17070.8	9920.8
52.5°	12140.2	12192.5	13021.3	15383.0	18365.2	21880.0	22523.5	*22431.4*	20173.3	17521.8	9943.8
55°	9378.8	9460.4	10254.6	12310.8	16278.7	21442.6	23890.1	*23807.4*	21042.9	17758.3	9916.6
57°	*6667.6*	*6753.4*	*7542.4*	*9395.5*	*13694.1*	*19928.5*	*24026.1*	*24114.0*	*21512.7*	*17798.0*	*9947.0*
57.5°	5949.8	6037.7	6819.3	8619.1	12888.4	19381.2	23908.9	*24055.4*	21597.5	17791.8	9963.7
60°	2995.8	3029.3	3527.4	4811.3	8147.2	15668.6	22380.2	*22757.9*	21673.9	17484.1	10035.9
62.5°	1862.6	1838.5	1822.8	2216.3	3963.7	10390.6	19225.3	*19952.5*	20212.0	16739.1	9861.2
65°	1637.6	1592.6	1419.9	1388.6	1750.6	5046.7	14477.8	*15383.0*	17088.6	15565.0	9444.7
67.5°	1538.2	1494.2	1299.6	1182.4	1183.5	2000.7	8988.5	*10007.7*	13312.2	13580.0	8462.1
70°	1435.6	1395.9	1213.8	1075.7	1007.7	1108.1	4135.3	*4908.6*	8677.7	10674.2	7072.5
72.5°	1303.8	1276.6	1103.9	961.6	889.4	829.8	1583.2	*1869.9*	5023.7	7168.8	4911.7
75°	1165.7	1140.6	993.0	857.0	769.1	652.9	891.5	*960.6*	2552.1	3667.6	2418.2
77.5°	1014.0	999.3	883.2	757.6	687.5	541.0	631.0	*664.5*	1094.5	1572.7	1212.8
80°	806.8	835.0	772.2	674.9	610.0	433.2	446.8	*468.8*	637.3	768.0	688.5
82.5°	525.3	574.5	604.8	548.3	502.3	341.1	321.2	*330.7*	415.4	468.8	299.3
85°	218.7	245.9	397.6	358.9	333.8	249.0	215.6	*219.7*	257.4	266.8	122.4
87.5°	97.3	103.6	174.7	164.3	141.3	85.8	92.1	*100.5*	137.1	129.8	47.1
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: P321112
CATALOG NUMBER: GLEON-SA8A-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4	6753.4
2.5°	6759.7	6671.8	6521.1	6354.7	6218.7	6109.9	6000.0	5924.7	5836.8	5789.7	5765.6
5°	6764.9	6592.3	6275.2	5949.8	5658.9	5393.1	5139.9	4945.2	4763.2	4664.8	4637.6
7.5°	6786.9	6527.4	6014.6	5478.9	4962.0	4490.1	4125.9	3897.8	3733.5	3660.3	3639.3
10°	6804.7	6451.0	5692.4	4899.2	4196.0	3717.8	3435.3	3307.6	3251.1	3241.7	3232.3
12.5°	6846.5	6372.5	5353.3	4294.4	3600.6	3270.0	3171.6	3163.2	3178.9	3202.0	3202.0
15°	6912.4	6295.1	4966.2	3775.4	3221.8	3105.7	3125.6	3171.6	3214.5	3250.1	3255.3
17.5°	6960.6	6199.9	4549.7	3360.0	3019.9	3051.3	3122.4	3187.3	3231.2	3265.8	3268.9
20°	6995.1	6052.3	4105.0	3042.9	2903.7	3001.0	3090.0	3147.5	3177.9	3212.4	3217.6
22.5°	6977.3	5854.5	3710.5	2815.8	2809.6	2927.8	3012.6	3081.6	3058.6	3025.1	3047.1
25°	6891.5	5582.5	3304.5	2646.3	2710.1	2829.4	2934.1	2888.0	2810.6	2796.0	2804.3
27.5°	6738.7	5235.1	2928.8	2489.4	2595.0	2738.4	2732.1	2686.1	2658.9	2640.0	2651.5
30°	6574.5	4858.4	2600.3	2352.3	2467.4	2585.6	2561.6	2560.5	2533.3	2503.0	2517.6
32.5°	6412.3	4479.6	2339.7	2239.3	2371.1	2386.8	2439.1	2454.8	2401.5	2337.6	2333.4
35°	6271.0	4121.7	2142.0	2136.7	2255.0	2257.1	2333.4	2311.5	2178.6	2112.7	2112.7
37.5°	6165.3	3764.9	1991.3	2044.6	2102.2	2156.6	2195.3	2104.3	2082.3	2045.7	2044.6
40°	6119.3	3451.0	1897.1	1974.5	1994.4	2063.5	1964.1	1999.6	2010.1	1991.3	1991.3
42.5°	6071.1	3177.9	1815.5	1921.2	1918.0	1908.6	1858.4	1904.4	1946.3	1947.3	1944.2
45°	6023.0	2942.4	1743.3	1807.1	1851.1	1749.6	1759.0	1808.2	1866.8	1887.7	1887.7
47.5°	5969.6	2756.2	1677.4	1686.8	1754.8	1686.8	1679.5	1717.1	1786.2	1819.7	1827.0
50°	5852.5	2588.8	1602.0	1581.1	1599.9	1622.9	1629.2	1647.0	1723.4	1776.8	1789.3
52.5°	5690.3	2439.1	1505.8	1483.8	1483.8	1570.6	1599.9	1605.2	1670.0	1733.9	1746.4
55°	5555.3	2343.9	1406.3	1402.2	1398.0	1515.2	1565.4	1573.8	1618.8	1669.0	1675.3
57°	*5564.7*	*2336.6*	*1330.0*	*1334.1*	*1333.1*	*1458.7*	*1533.0*	*1550.7*	*1573.8*	*1616.7*	*1624.0*
57.5°	5569.9	2341.8	1313.2	1315.3	1314.3	1443.0	1523.5	1543.4	1561.2	1606.2	1613.5
60°	5648.4	2355.4	1245.2	1222.2	1227.4	1359.3	1470.2	1495.3	1506.8	1566.4	1575.9
62.5°	5532.3	2294.7	1190.8	1135.3	1135.3	1271.4	1395.9	1435.6	1453.4	1534.0	1549.7
65°	5195.3	2124.2	1127.0	1037.0	1047.4	1183.5	1306.9	1371.8	1399.0	1499.5	1516.2
67.5°	4675.3	1926.4	1058.9	949.1	959.5	1091.4	1214.9	1285.0	1327.9	1461.8	1475.4
70°	3998.3	1684.7	966.9	855.9	868.5	990.9	1106.0	1185.6	1249.4	1426.2	1430.4
72.5°	2947.7	1381.2	838.2	753.4	767.0	873.7	996.2	1088.2	1174.0	1337.3	1335.2
75°	1752.7	1079.9	695.8	649.8	659.2	758.6	896.8	1008.7	1137.4	1302.8	1322.6
77.5°	1063.1	813.0	567.1	544.1	555.6	657.1	825.6	944.9	1121.7	1228.5	1222.2
80°	642.5	580.7	453.1	438.4	449.9	561.9	763.9	896.8	980.5	1049.5	1049.5
82.5°	335.9	354.7	332.8	321.2	336.9	456.2	694.8	782.7	866.4	744.0	694.8
85°	137.1	185.2	202.0	200.9	210.3	316.0	599.6	669.7	558.8	530.5	543.1
87.5°	46.0	78.5	98.4	84.8	88.9	198.8	415.4	323.3	384.0	267.9	254.3
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

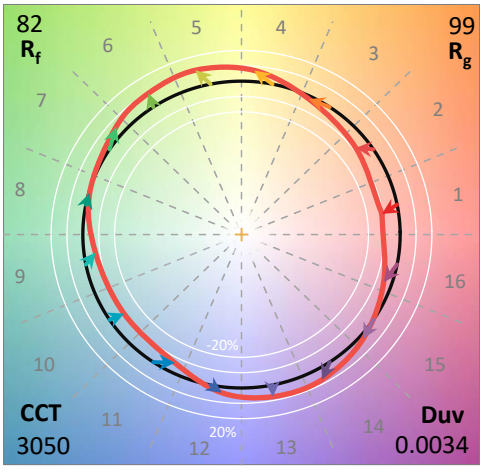
Test Information

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

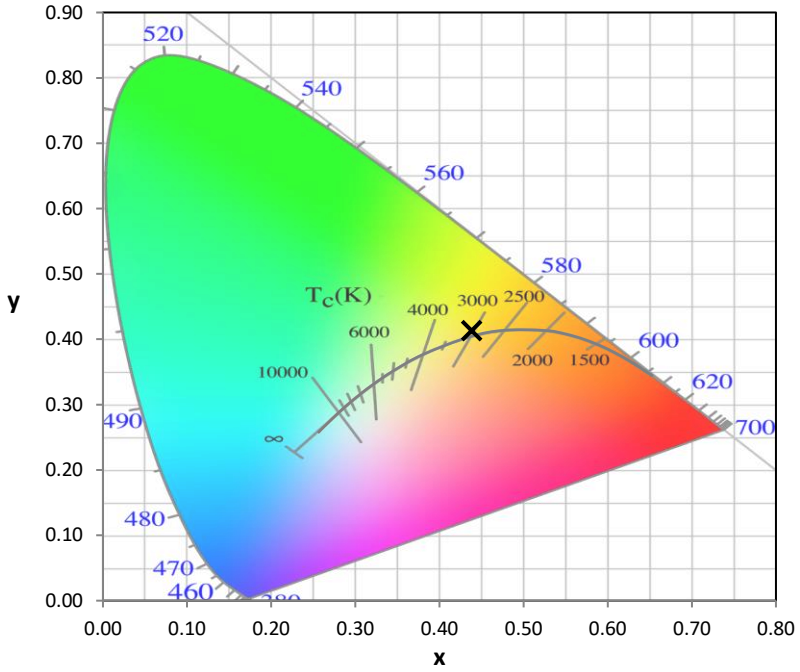
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

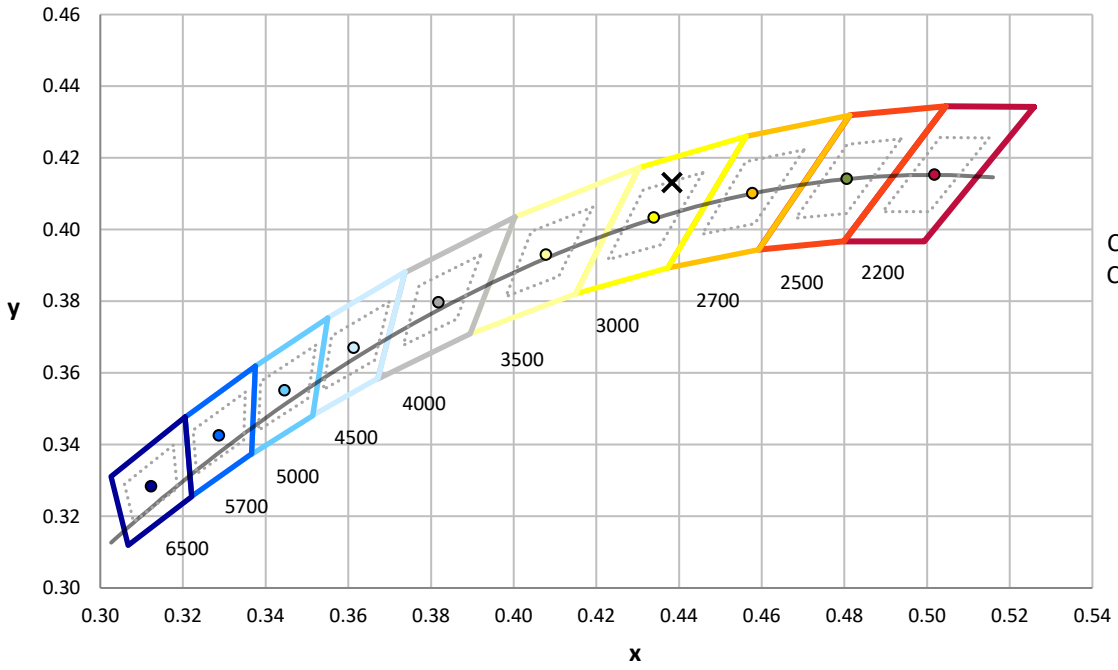
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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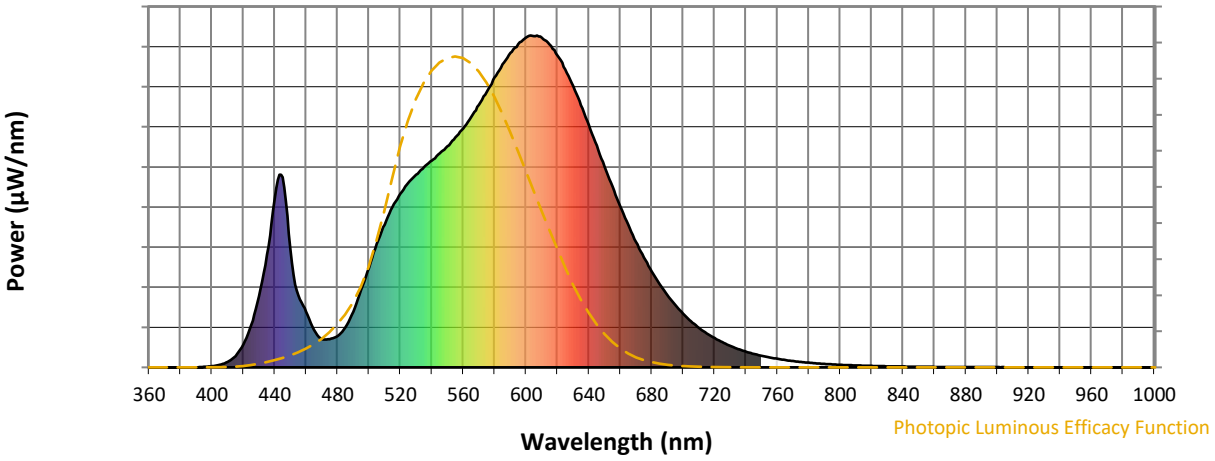
Photopic Flux vs. Wavelength



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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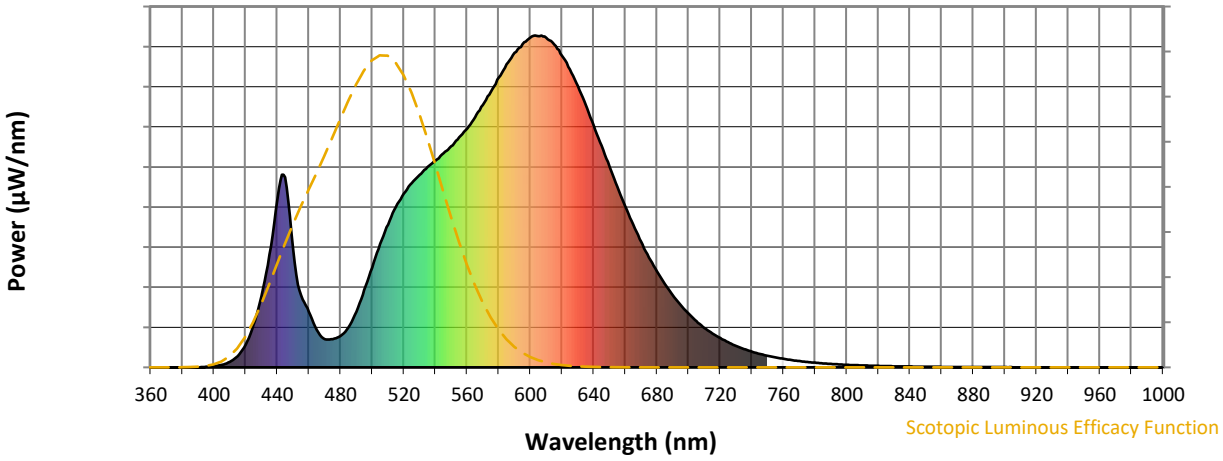
Scotopic Flux vs. Wavelength



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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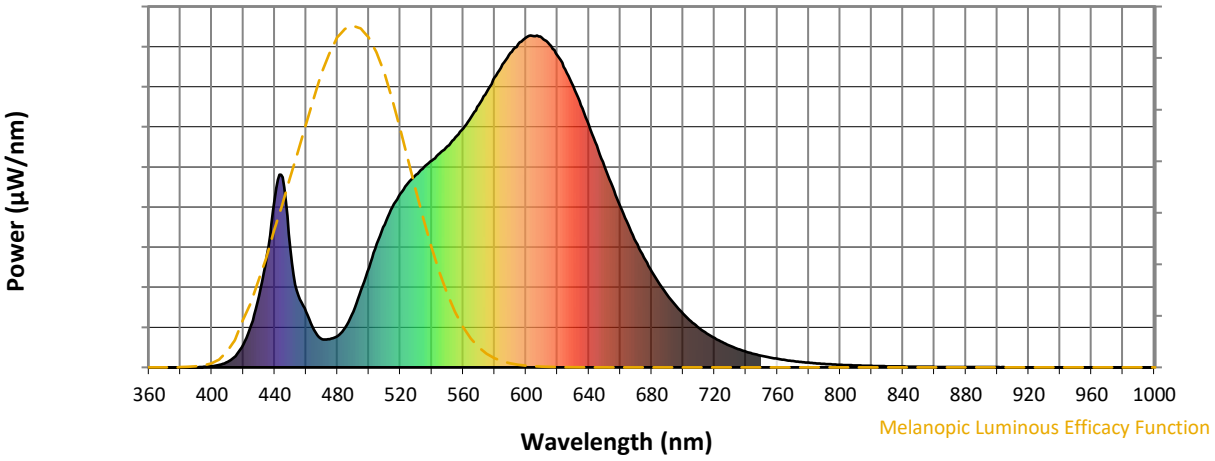
Melanopic Flux vs. Wavelength



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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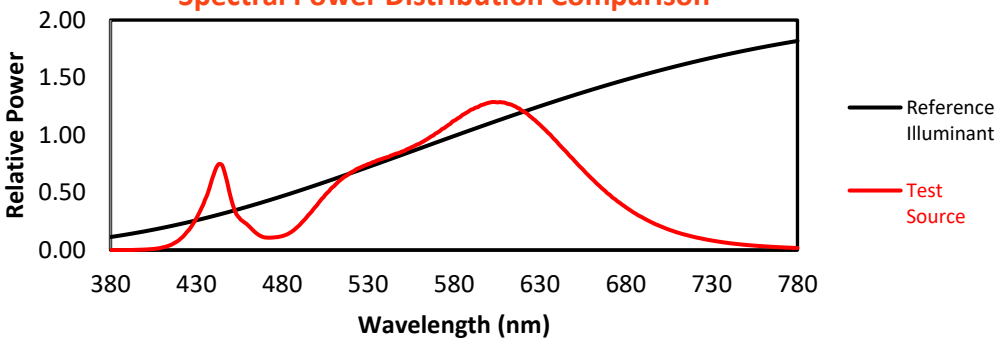
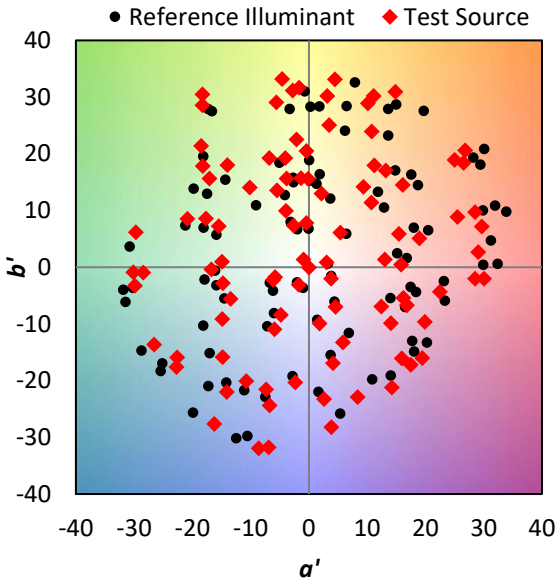
Summary

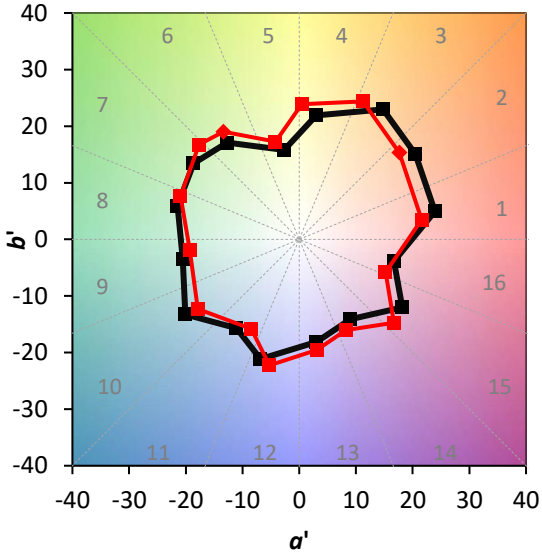
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

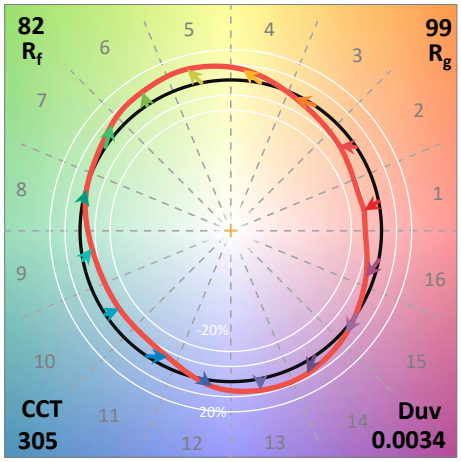
Spectral Power Distribution Comparison

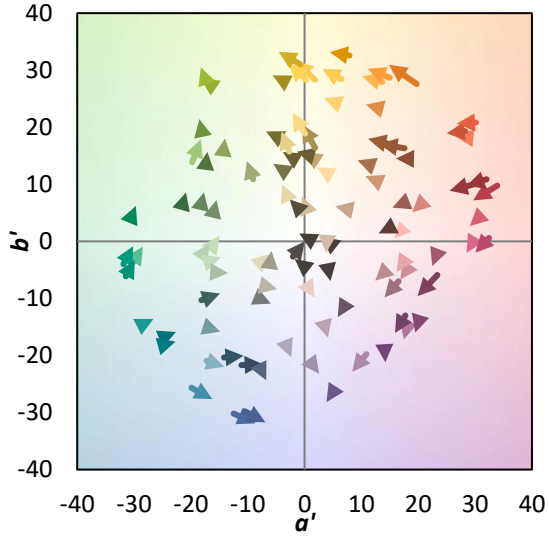


Color Vector Graphics









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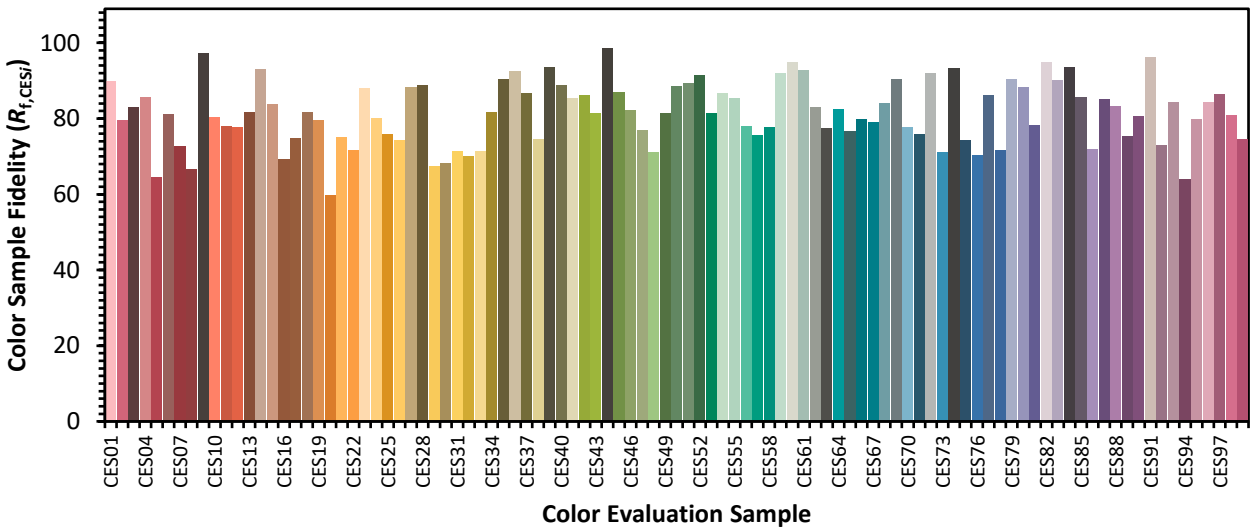
Individual Sample Fidelity Index ($R_{f,i}$)

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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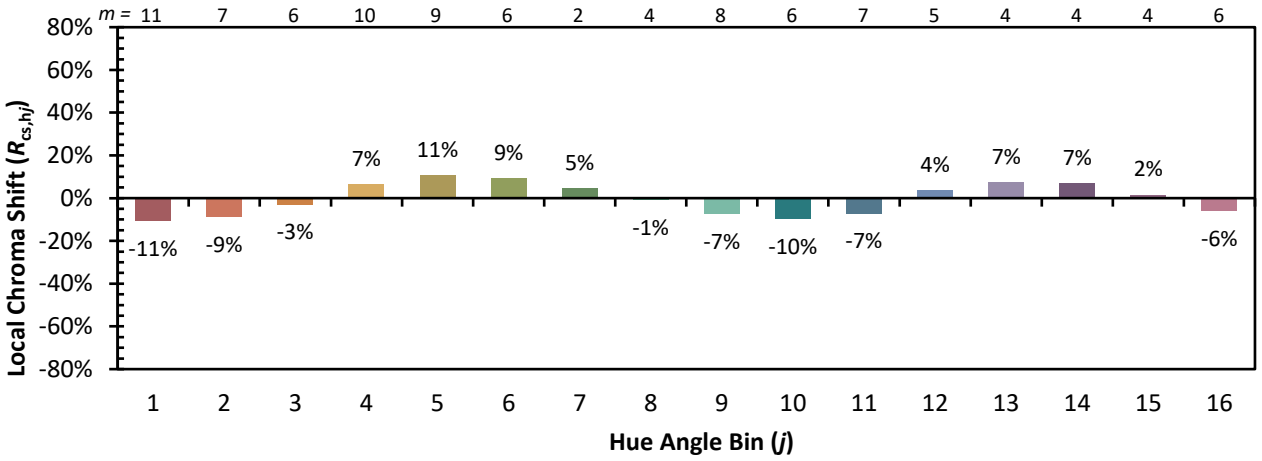
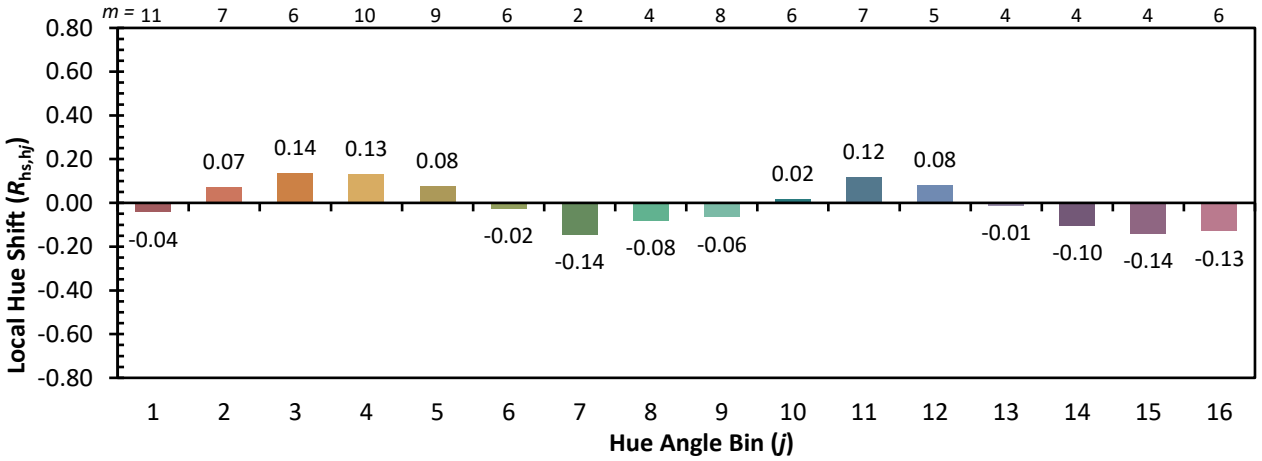
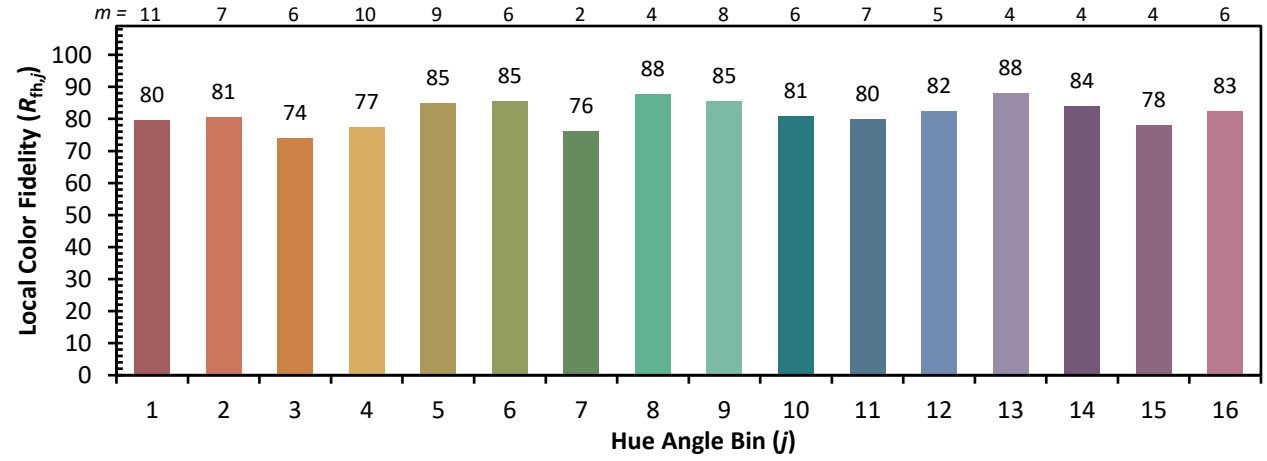
Color Rendition by Hue-Angle Bin







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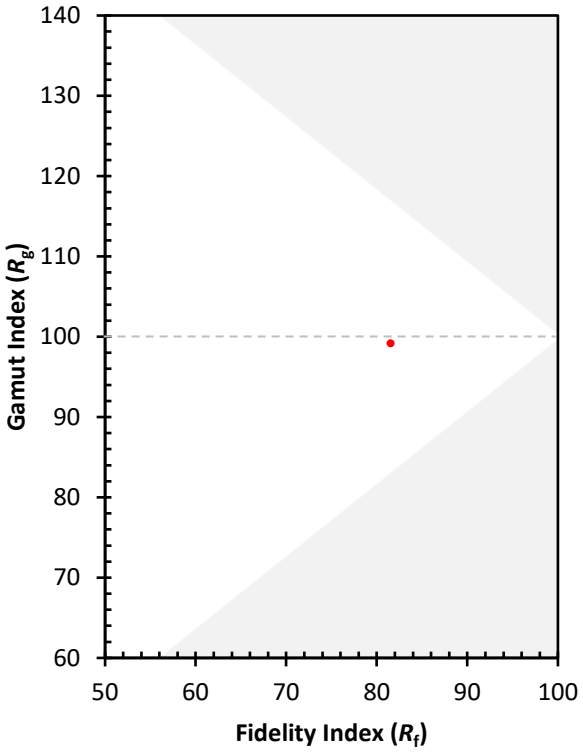
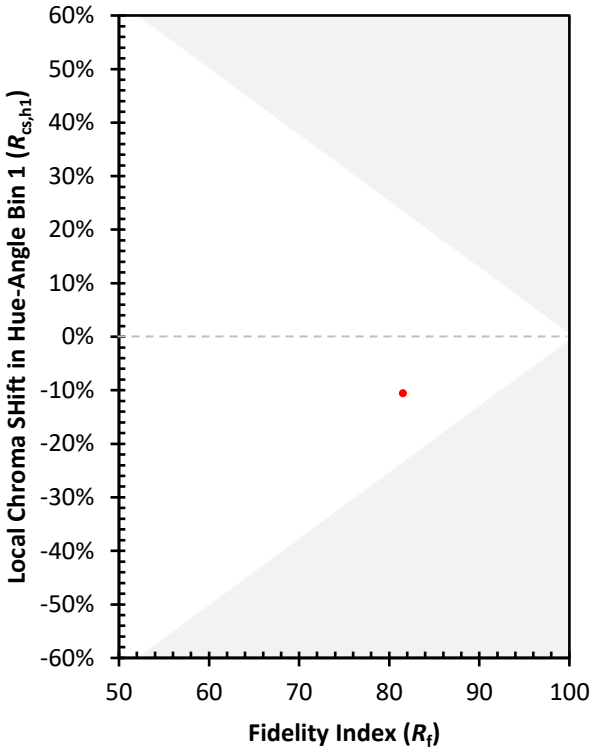
Measure Comparisons





(END OF REPORT)