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: P321133

Luminaire Tested: **GLEON-SA9C-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:	P321133
	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-SA9C-830-U-AFL
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	51550 lumens
Efficiency:	N/A
Efficacy:	102.9 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G4

Input Watts (W):	501
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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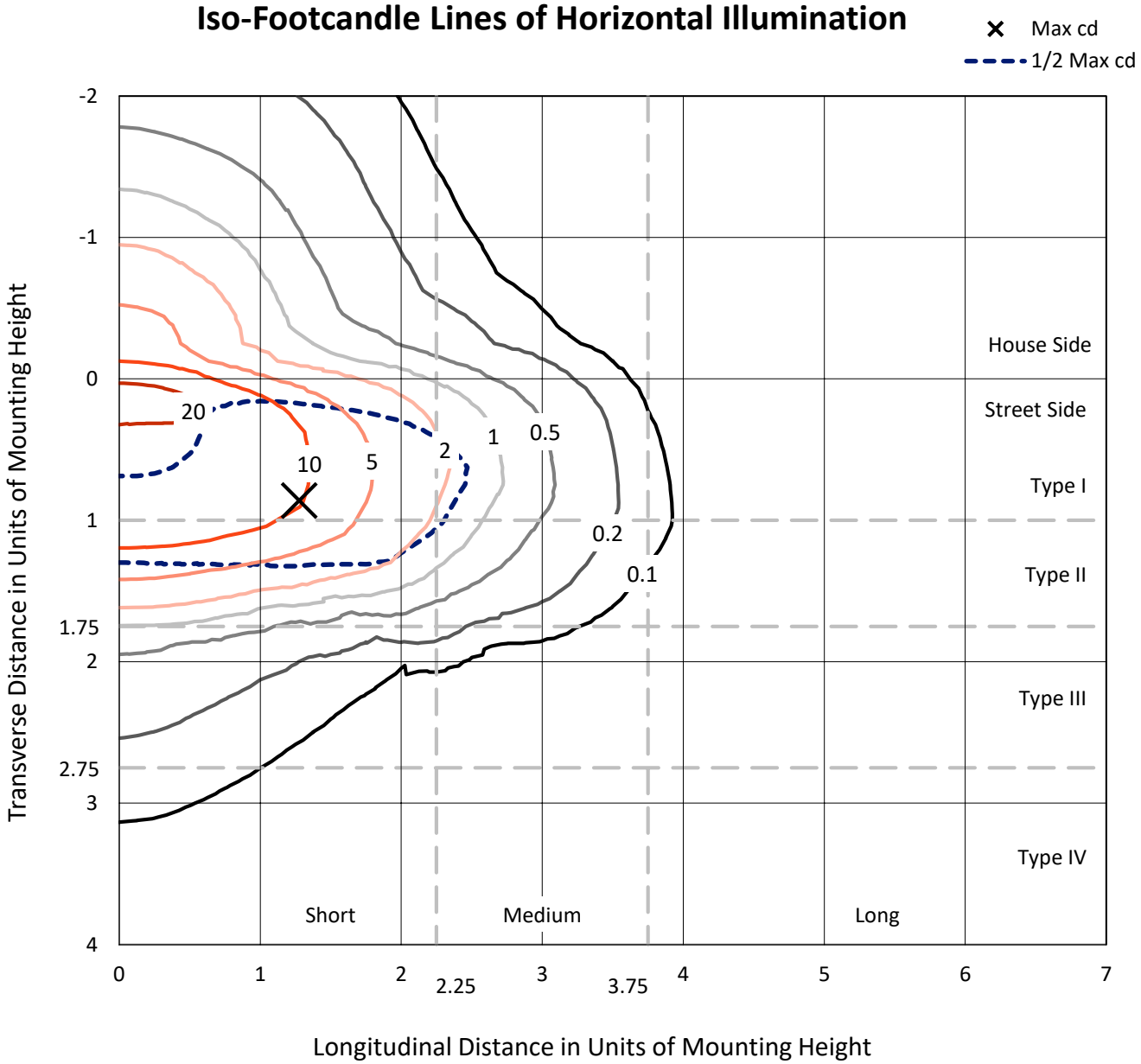
REPORT NUMBER: P321133
CATALOG NUMBER: GLEON-SA9C-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
Type II - Short - N/A

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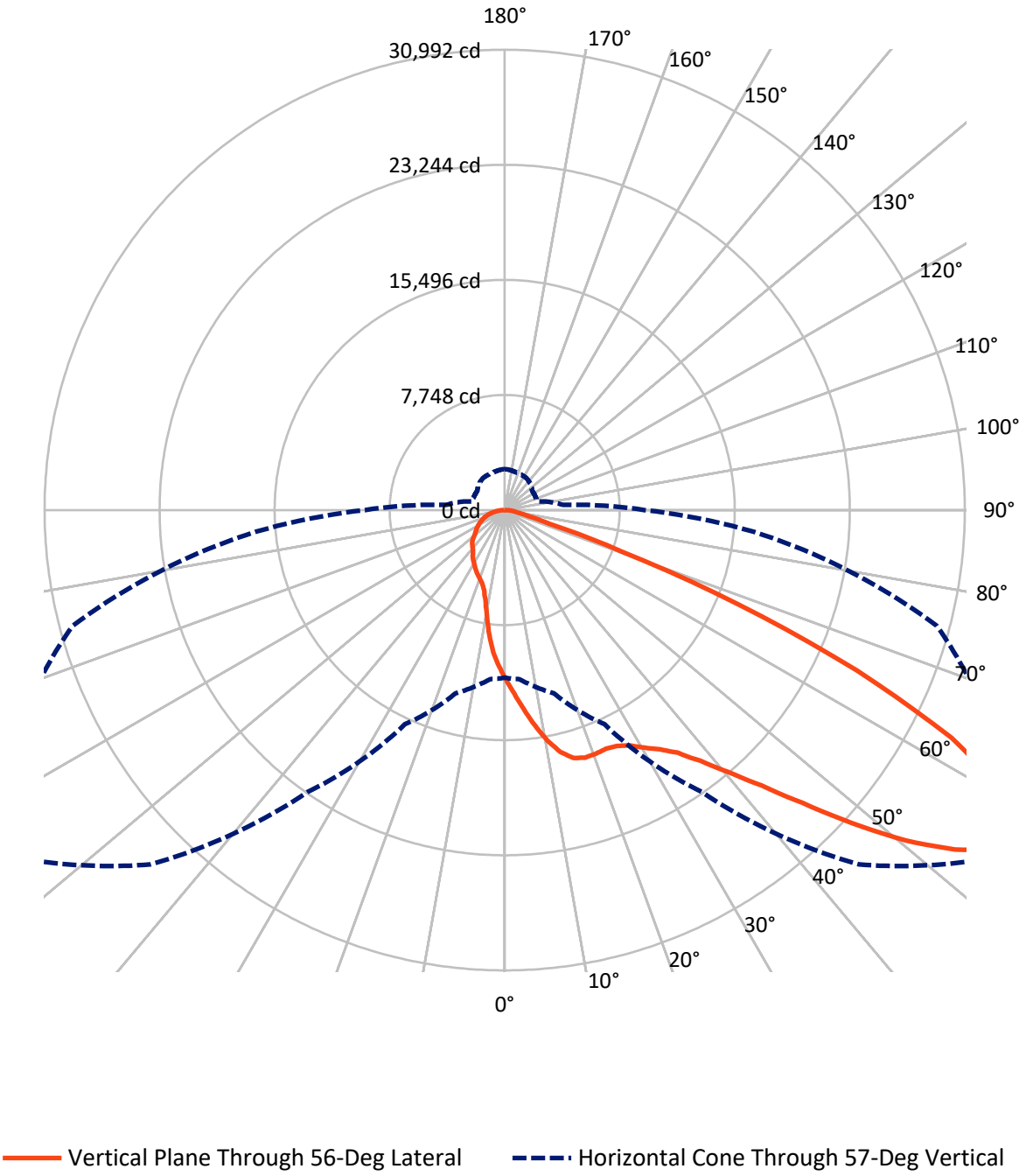
Luminous Intensity Polar Plot



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REPORT NUMBER: P321133
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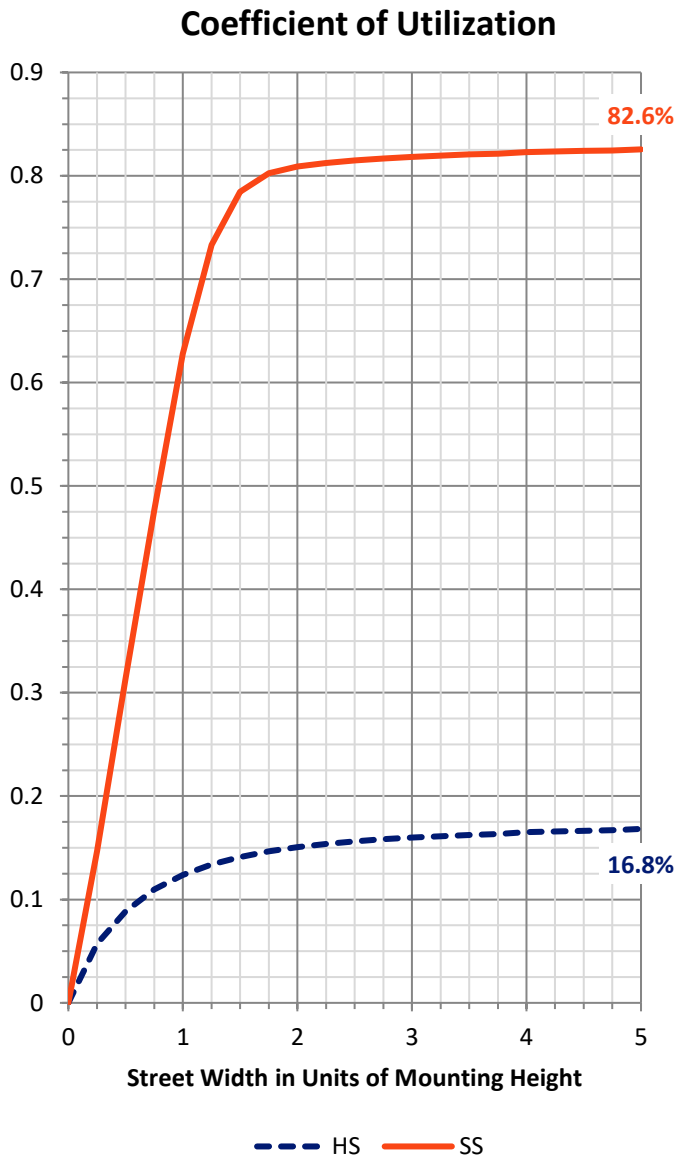
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8886.1	0.0	8886.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	42663.9	0.0	42663.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	51550.0	0.0	51550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.2	2.1
10°-20°	3087.9	6.0
20°-30°	5029.7	9.8
30°-40°	7518.8	14.6
40°-50°	11404.4	22.1
50°-60°	12782.4	24.8
60°-70°	7549.8	14.6
70°-80°	2473.6	4.8
80°-90°	611.1	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°	51550.0	100.0
0°-180°	51550.0	100.0



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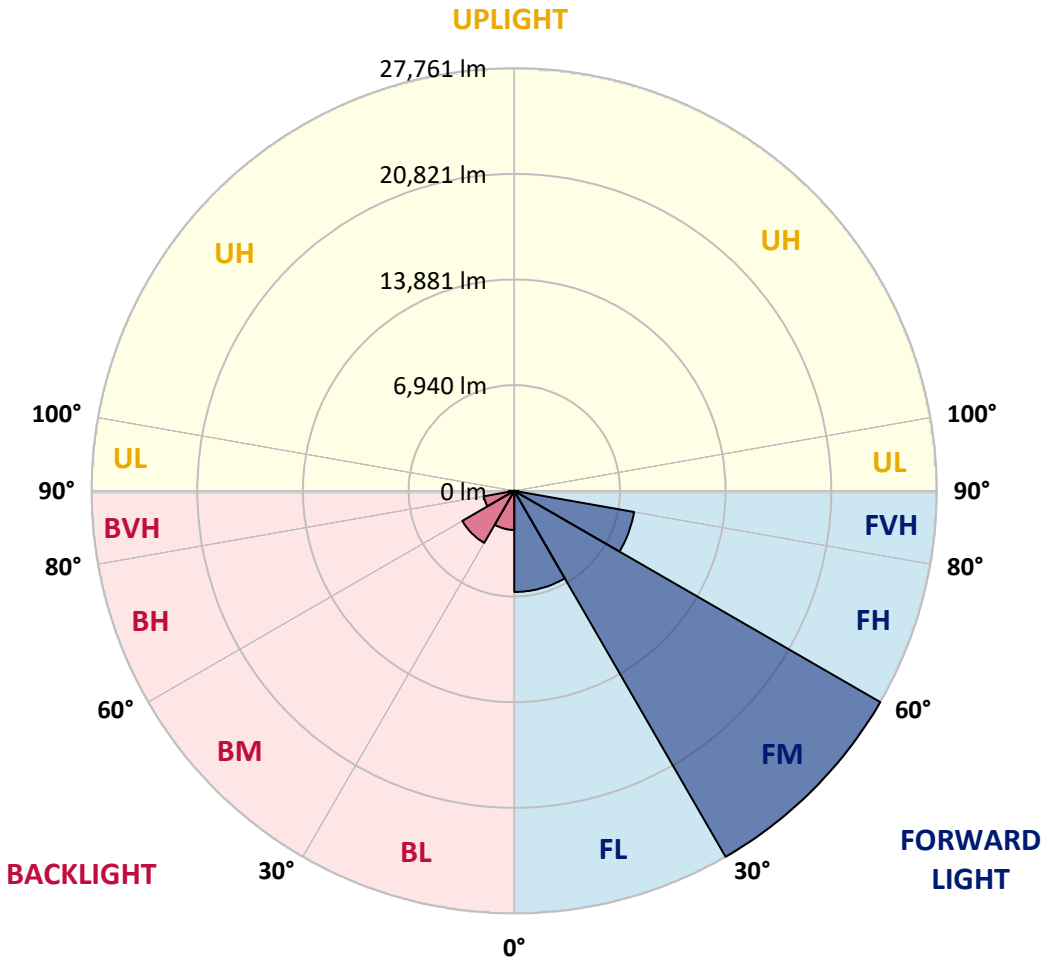
REPORT NUMBER: P321133
CATALOG NUMBER: GLEON-SA9C-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	6640.4	12.9			
FM	(30°-60°)	27761.4	53.9			
FH	(60°-80°)	7993.0	15.5			G4/12000
FVH	(80°-90°)	269.1	0.5			G3/500
BL	(0°-30°)	2569.5	5.0	B4/5000		
BM	(30°-60°)	3944.3	7.7	B3/5000		
BH	(60°-80°)	2030.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	342.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type II Short



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REPORT NUMBER: P321133
CATALOG NUMBER: GLEON-SA9C-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	*11433.8*	11433.8	11433.8	11433.8
2.5°	13129.2	13249.7	13196.6	13012.3	12870.6	12670.4	12447.2	*12379.9*	12144.2	11880.3	11563.2
5°	15207.3	15147.1	15060.3	14773.3	14470.3	14117.8	13558.0	*13469.4*	12945.0	12348.0	11717.3
7.5°	16390.7	16385.4	16334.1	16165.8	15889.4	15428.8	14753.8	*14649.3*	13857.4	12897.2	11919.3
10°	16218.9	16206.5	16291.5	16466.9	16550.2	16454.5	15885.8	*15781.3*	14808.7	13504.8	12153.1
12.5°	15242.8	15249.8	15386.3	15754.7	16256.1	16858.4	16766.3	*16714.9*	15795.5	14192.2	12436.6
15°	14482.7	14498.7	14606.8	14927.4	15519.1	16612.2	17301.3	*17319.1*	16750.4	14950.4	12767.8
17.5°	14149.7	14183.3	14232.9	14457.9	15000.0	16121.5	17428.9	*17524.6*	17586.6	15737.0	13086.7
20°	14256.0	14287.9	14302.0	14445.5	14890.2	15823.8	17340.3	*17512.2*	18227.9	16477.6	13405.6
22.5°	14732.5	14752.0	14760.9	14798.1	15143.5	15908.9	17281.9	*17462.6*	18692.0	17141.9	13646.6
25°	15522.7	15508.5	15451.8	15404.0	15636.0	16245.5	17416.5	*17588.3*	19069.4	17744.2	13804.2
27.5°	16468.7	16451.0	16341.1	16210.0	16342.9	16769.9	17804.5	*17940.9*	19407.8	18307.6	13883.9
30°	17604.3	17558.2	17350.9	17195.0	17246.4	17556.4	18444.0	*18568.0*	19930.4	18947.1	13961.9
32.5°	18917.0	18867.4	18568.0	18309.4	18309.4	18568.0	19103.0	*19205.8*	20373.3	19670.0	14087.7
35°	20561.1	20499.1	20109.3	19675.3	19553.0	19684.1	20001.2	*20073.9*	21170.5	20580.6	14316.2
37.5°	22499.2	22415.9	21911.0	21329.9	21062.4	21055.3	21283.9	*21432.7*	22444.3	21776.4	14704.2
40°	24442.6	24384.2	23943.0	23486.0	22961.6	22793.3	23145.8	*23191.9*	24109.6	23261.0	15200.2
42.5°	25944.9	25934.3	25852.8	25913.0	25376.2	25036.1	25312.5	*25349.7*	26143.3	24867.8	15728.2
45°	26738.6	26756.3	27151.4	28026.5	28225.0	27976.9	28113.3	*28124.0*	28467.7	26488.8	16211.8
47.5°	26102.6	26194.7	27193.9	29151.5	30776.0	31599.8	31373.1	*31504.2*	30721.1	27881.3	16590.9
50°	23624.1	23737.5	25438.2	28650.1	31966.6	35105.8	34987.1	*34957.0*	32538.8	28901.7	16796.4
52.5°	20554.0	20642.6	22045.7	26044.1	31093.2	37043.9	38133.5	*37977.6*	34154.5	29665.3	16835.4
55°	15878.8	16016.9	17361.6	20842.7	27560.6	36303.4	40447.2	*40307.2*	35626.7	30065.6	16789.4
57°	*11288.6*	*11433.8*	*12769.6*	*15907.1*	*23184.8*	*33739.9*	*40677.5*	*40826.3*	*36422.1*	*30133.0*	*16840.7*
57.5°	10073.3	10222.1	11545.4	14592.6	21820.7	32813.4	40479.0	*40727.1*	36565.6	30122.3	16869.1
60°	5072.1	5128.8	5972.0	8145.8	13793.6	26527.8	37890.8	*38530.3*	36694.9	29601.5	16991.3
62.5°	3153.4	3112.7	3086.1	3752.2	6710.8	17591.9	32549.4	*33780.7*	34220.0	28340.1	16695.5
65°	2772.5	2696.4	2404.0	2350.9	2963.9	8544.4	24511.7	*26044.1*	28931.8	26352.4	15990.4
67.5°	2604.2	2529.8	2200.3	2001.9	2003.7	3387.3	15218.0	*16943.5*	22538.2	22991.7	14326.8
70°	2430.6	2363.3	2055.0	1821.2	1706.0	1876.1	7001.3	*8310.5*	14691.8	18072.0	11974.2
72.5°	2207.4	2161.3	1869.0	1628.1	1505.9	1404.9	2680.4	*3165.8*	8505.4	12137.2	8315.8
75°	1973.6	1931.0	1681.2	1450.9	1302.1	1105.5	1509.4	*1626.3*	4320.9	6209.4	4094.1
77.5°	1716.7	1691.9	1495.2	1282.6	1163.9	915.9	1068.3	*1125.0*	1853.1	2662.7	2053.3
80°	1365.9	1413.7	1307.4	1142.7	1032.8	733.4	756.5	*793.7*	1078.9	1300.3	1165.7
82.5°	889.3	972.6	1024.0	928.3	850.4	577.5	543.9	*559.8*	703.3	793.7	506.7
85°	370.3	416.3	673.2	607.7	565.1	421.6	364.9	*372.0*	435.8	451.8	207.3
87.5°	164.8	175.4	295.9	278.1	239.2	145.3	155.9	*170.1*	232.1	219.7	79.7
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: P321133
CATALOG NUMBER: GLEON-SA9C-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8
2.5°	11444.5	11295.7	11040.5	10758.9	10528.6	10344.3	10158.3	10030.7	9881.9	9802.2	9761.5
5°	11453.3	11161.0	10624.2	10073.3	9580.8	9130.8	8702.0	8372.5	8064.3	7897.7	7851.7
7.5°	11490.5	11051.2	10183.1	9276.0	8400.9	7601.9	6985.4	6599.2	6321.0	6197.0	6161.6
10°	11520.6	10921.8	9637.4	8294.6	7104.1	6294.5	5816.1	5600.0	5504.3	5488.4	5472.4
12.5°	11591.5	10789.0	9063.5	7270.6	6096.0	5536.2	5369.7	5355.5	5382.1	5421.1	5421.1
15°	11703.1	10657.9	8408.0	6391.9	5454.7	5258.1	5291.7	5369.7	5442.3	5502.6	5511.4
17.5°	11784.6	10496.7	7702.9	5688.6	5112.8	5166.0	5286.4	5396.3	5470.7	5529.1	5534.4
20°	11843.1	10246.9	6949.9	5151.8	4916.2	5080.9	5231.5	5328.9	5380.3	5438.8	5447.6
22.5°	11813.0	9912.0	6282.1	4767.3	4756.7	4956.9	5100.4	5217.3	5178.4	5121.7	5158.9
25°	11667.7	9451.4	5594.7	4480.3	4588.4	4790.4	4967.5	4889.6	4758.5	4733.7	4747.9
27.5°	11409.0	8863.3	4958.7	4214.6	4393.5	4636.2	4625.6	4547.7	4501.6	4469.7	4489.2
30°	11130.9	8225.5	4402.4	3982.5	4177.4	4377.6	4336.9	4335.1	4289.0	4237.6	4262.4
32.5°	10856.3	7584.2	3961.3	3791.2	4014.4	4041.0	4129.6	4156.1	4065.8	3957.7	3950.6
35°	10617.1	6978.3	3626.4	3617.6	3817.8	3821.3	3950.6	3913.4	3688.4	3576.8	3576.8
37.5°	10438.2	6374.2	3371.3	3461.7	3559.1	3651.2	3716.8	3562.7	3525.5	3463.5	3461.7
40°	10360.3	5842.7	3211.9	3343.0	3376.6	3493.6	3325.3	3385.5	3403.2	3371.3	3371.3
42.5°	10278.8	5380.3	3073.7	3252.6	3247.3	3231.4	3146.3	3224.3	3295.2	3296.9	3291.6
45°	10197.3	4981.7	2951.5	3059.5	3133.9	2962.1	2978.0	3061.3	3160.5	3195.9	3195.9
47.5°	10106.9	4666.4	2839.9	2855.8	2971.0	2855.8	2843.4	2907.2	3024.1	3080.8	3093.2
50°	9908.5	4382.9	2712.3	2676.9	2708.8	2747.7	2758.4	2788.5	2917.8	3008.2	3029.4
52.5°	9633.9	4129.6	2549.3	2512.1	2512.1	2659.2	2708.8	2717.6	2827.5	2935.5	2956.8
55°	9405.4	3968.4	2381.0	2373.9	2366.8	2565.3	2650.3	2664.5	2740.6	2825.7	2836.3
57°	*9421.3*	*3956.0*	*2251.7*	*2258.8*	*2257.0*	*2469.6*	*2595.4*	*2625.5*	*2664.5*	*2737.1*	*2749.5*
57.5°	9430.2	3964.8	2223.3	2226.9	2225.1	2443.0	2579.4	2613.1	2643.2	2719.4	2731.8
60°	9563.0	3987.8	2108.2	2069.2	2078.1	2301.3	2489.1	2531.6	2551.1	2652.1	2668.0
62.5°	9366.4	3885.1	2016.1	1922.2	1922.2	2152.5	2363.3	2430.6	2460.7	2597.1	2623.7
65°	8795.9	3596.3	1908.0	1755.6	1773.4	2003.7	2212.7	2322.6	2368.6	2538.7	2567.0
67.5°	7915.5	3261.5	1792.8	1606.8	1624.5	1847.8	2056.8	2175.5	2248.1	2474.9	2497.9
70°	6769.2	2852.3	1636.9	1449.2	1470.4	1677.7	1872.6	2007.2	2115.3	2414.7	2421.8
72.5°	4990.6	2338.5	1419.0	1275.5	1298.6	1479.3	1686.6	1842.5	1987.7	2264.1	2260.5
75°	2967.4	1828.3	1178.1	1100.2	1116.1	1284.4	1518.3	1707.8	1925.7	2205.6	2239.3
77.5°	1799.9	1376.5	960.2	921.2	940.7	1112.6	1397.8	1599.7	1899.1	2079.8	2069.2
80°	1087.8	983.2	767.1	742.3	761.8	951.3	1293.3	1518.3	1660.0	1776.9	1776.9
82.5°	568.7	600.6	563.4	543.9	570.5	772.4	1176.3	1325.1	1466.9	1259.6	1176.3
85°	232.1	313.6	341.9	340.1	356.1	535.0	1015.1	1133.8	946.0	898.2	919.5
87.5°	77.9	132.9	166.5	143.5	150.6	336.6	703.3	547.4	650.2	453.5	430.5
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

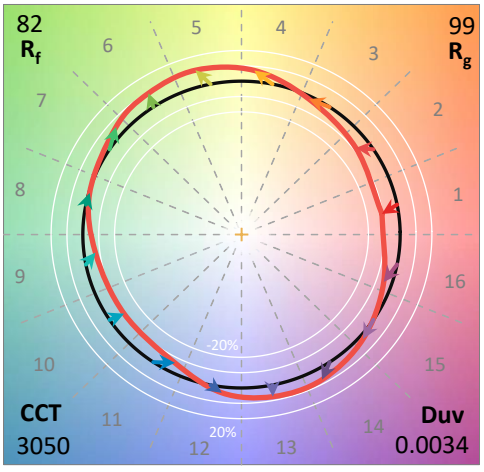
Test Information

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

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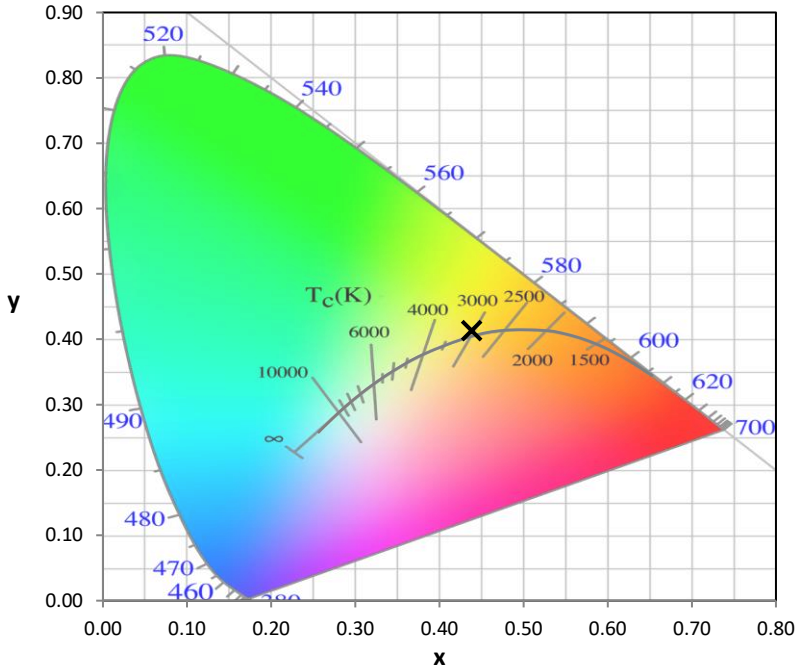
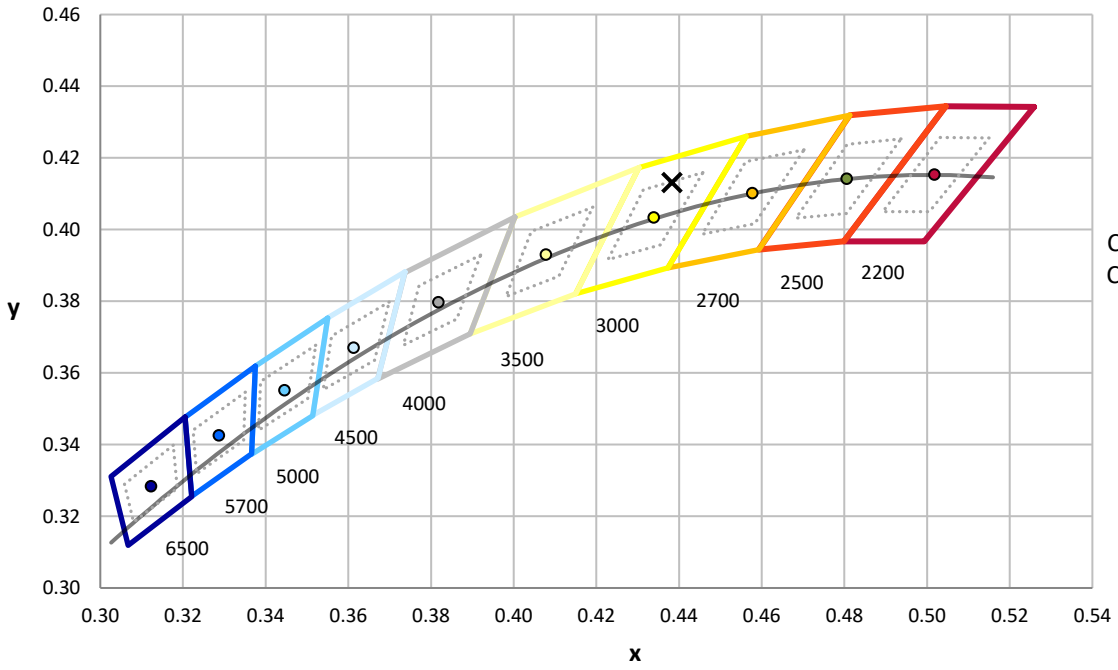
CIE 1931 Chromaticity Diagram



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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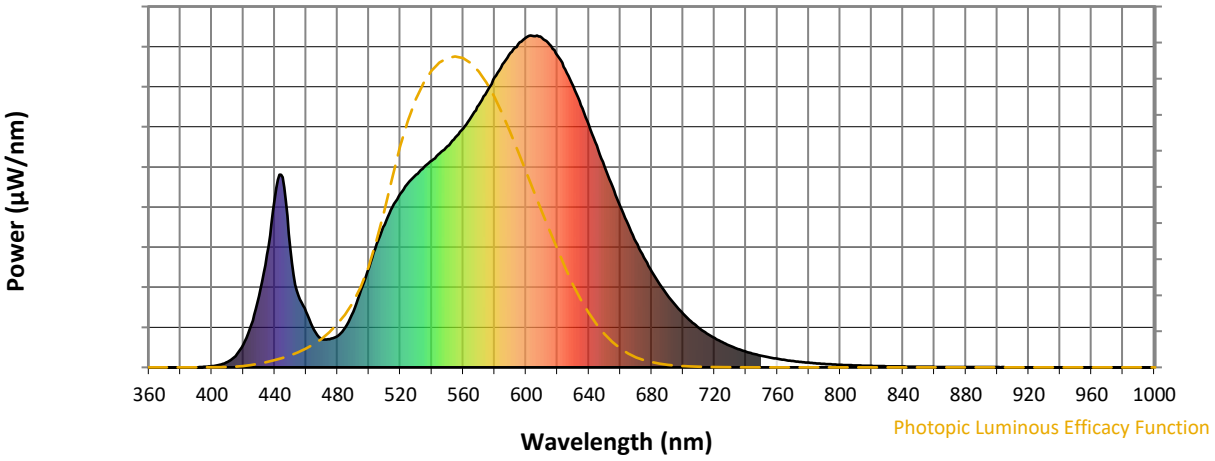
Photopic Flux vs. Wavelength



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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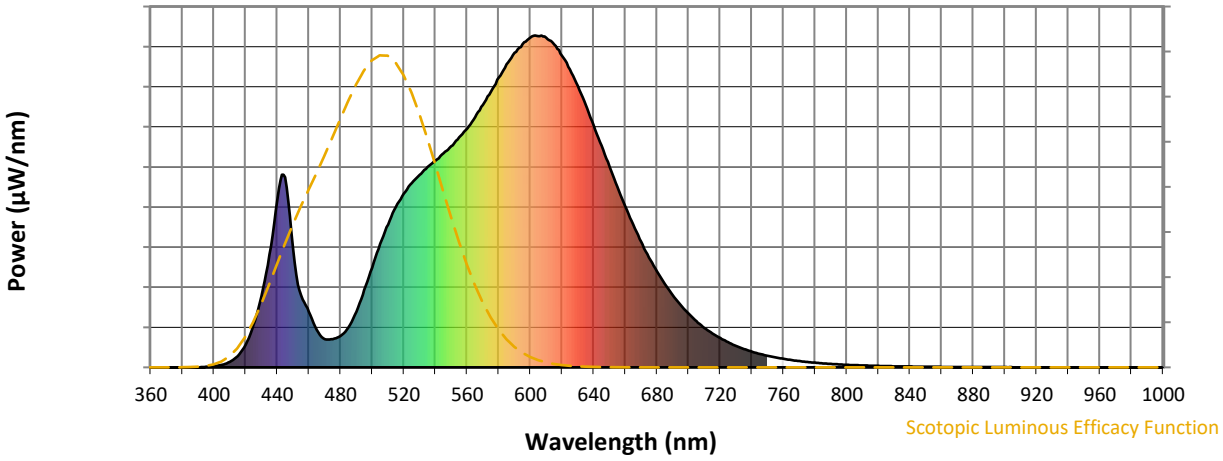
Scotopic Flux vs. Wavelength



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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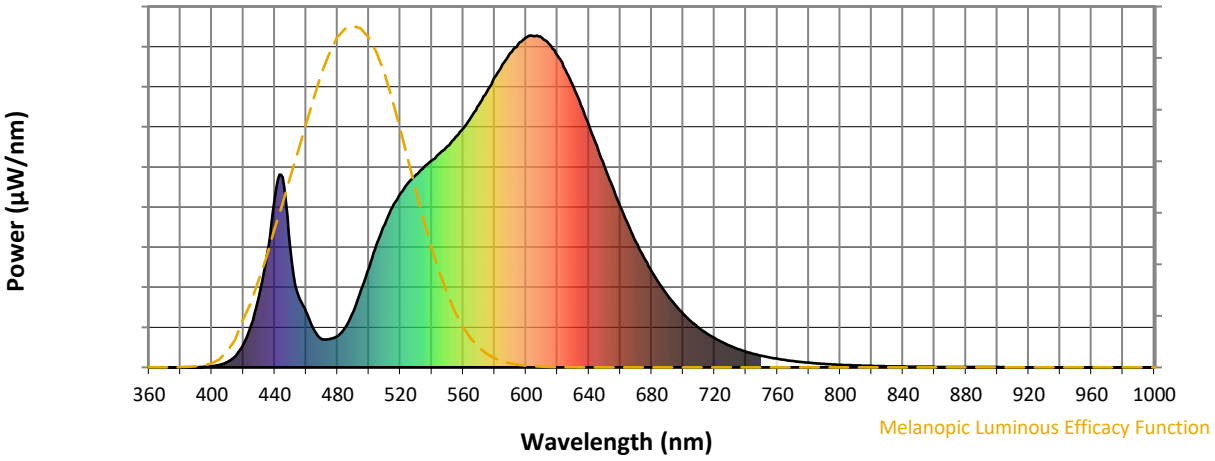
Melanopic Flux vs. Wavelength



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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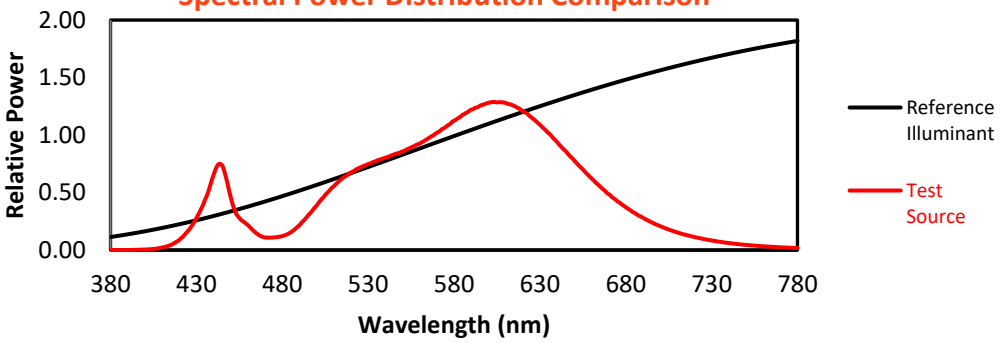
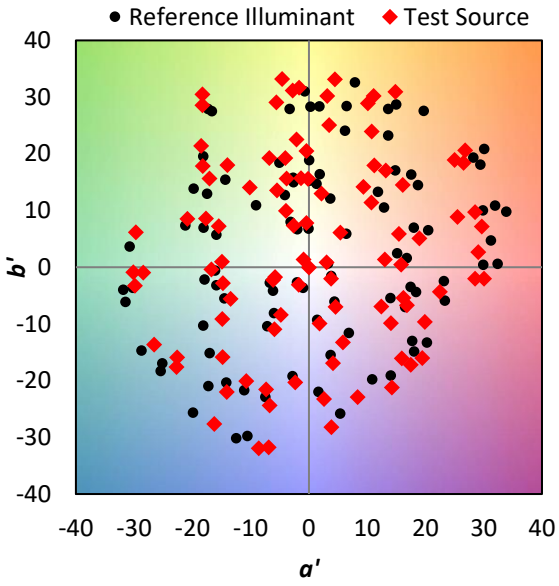
Summary

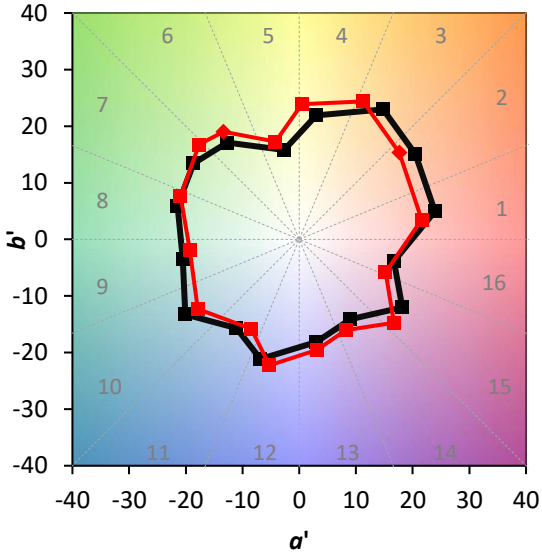
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

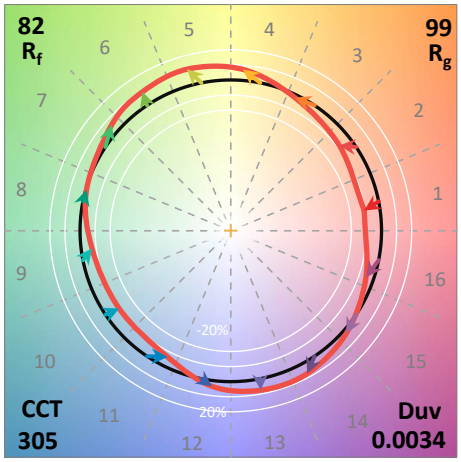
Spectral Power Distribution Comparison

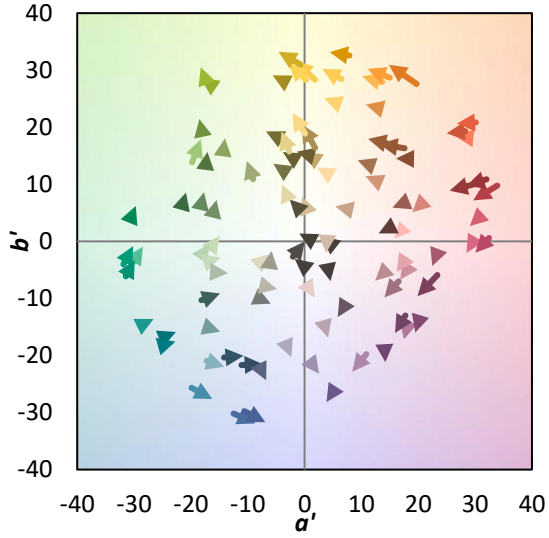


Color Vector Graphics









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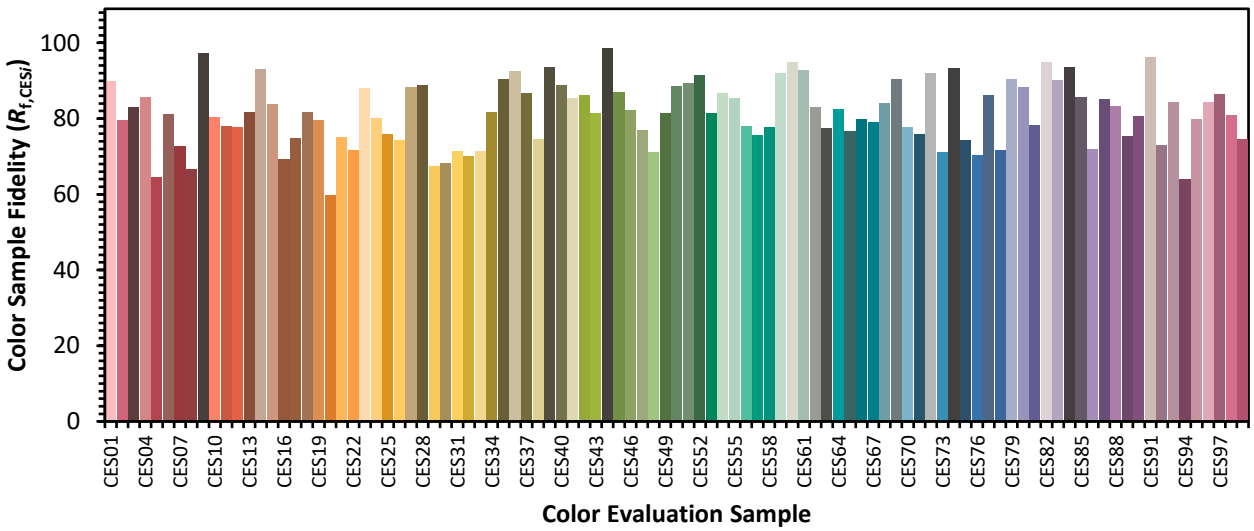
Individual Sample Fidelity Index ($R_{f,i}$)

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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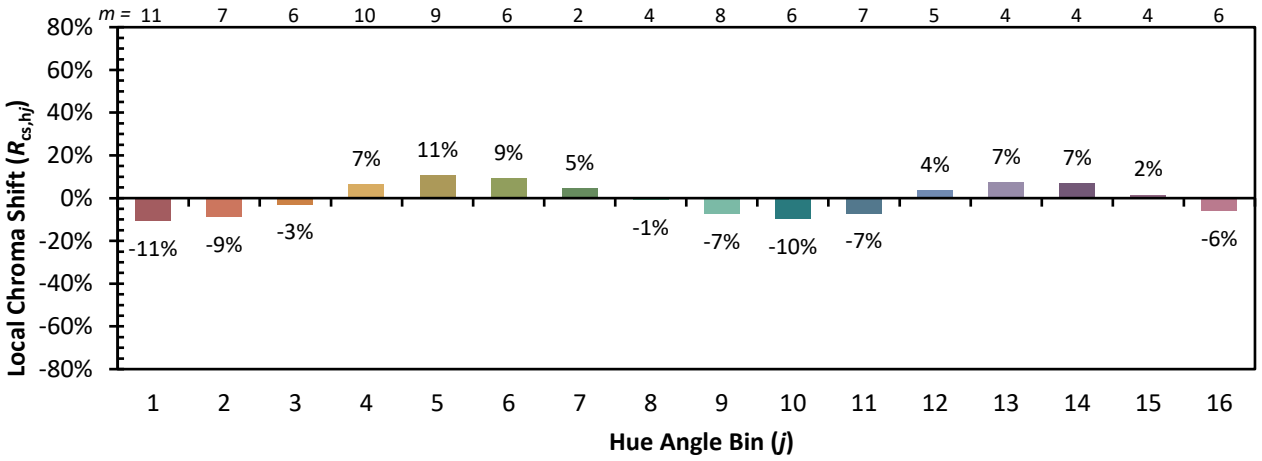
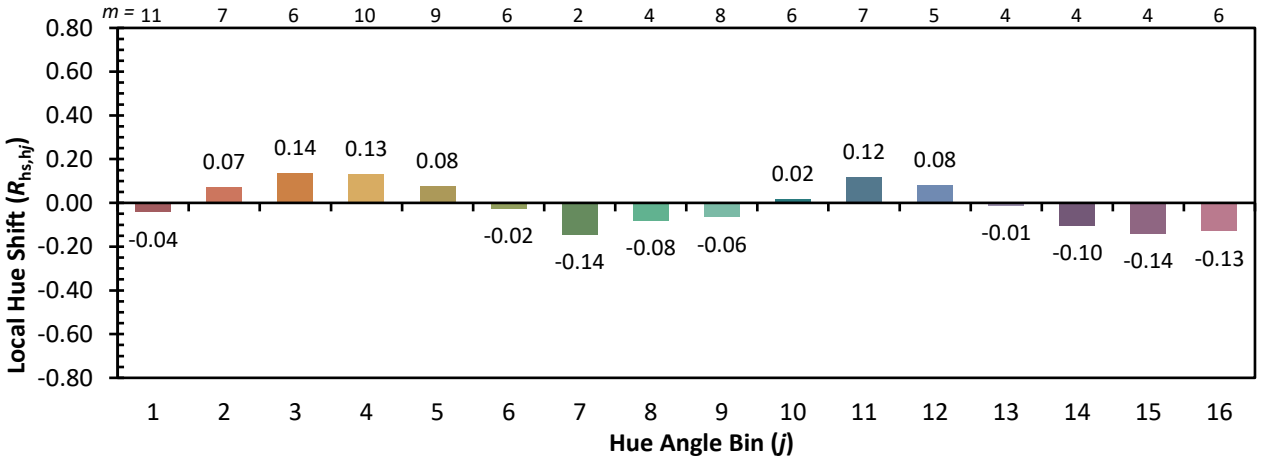
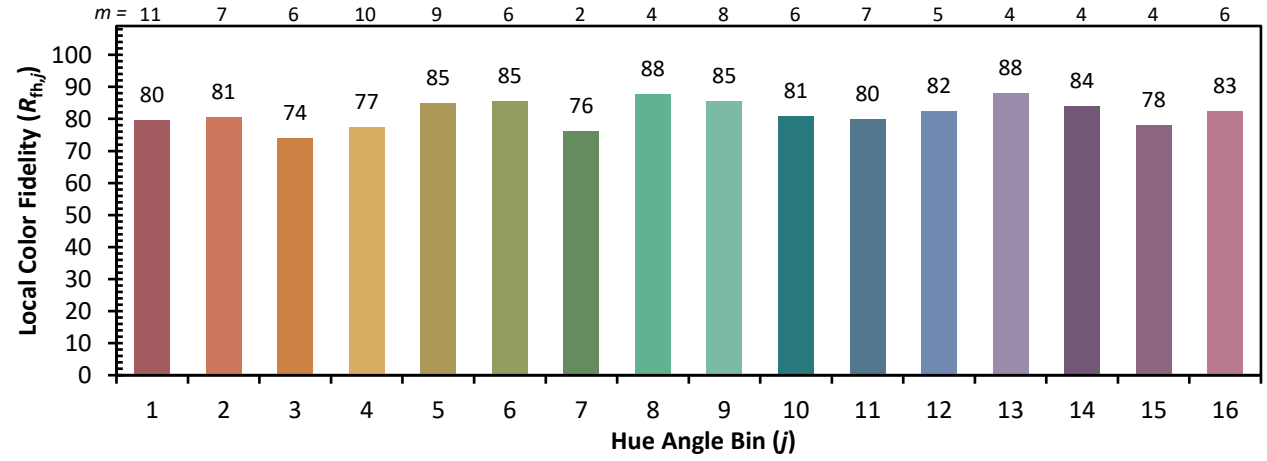
Color Rendition by Hue-Angle Bin







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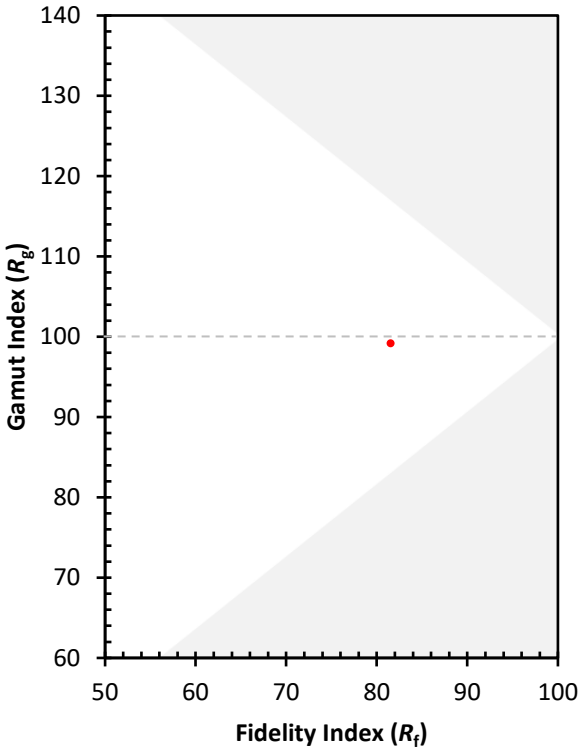
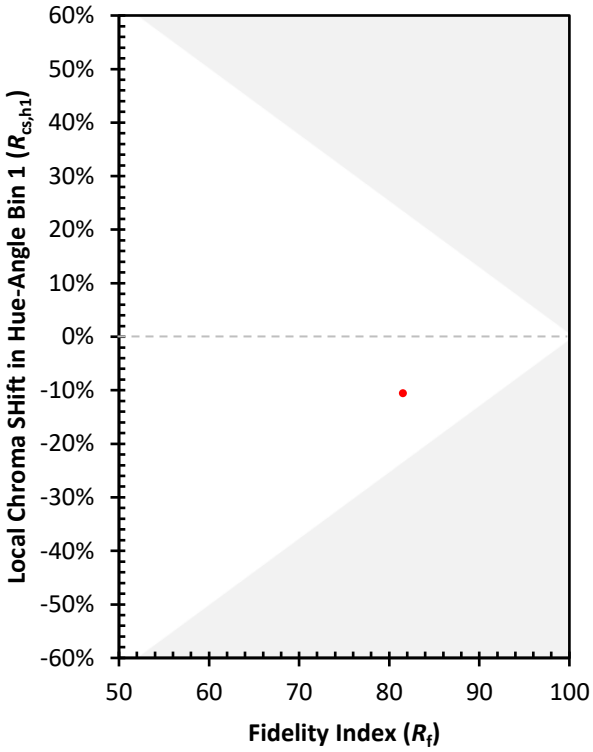
Measure Comparisons





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