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: P317593

Luminaire Tested: **GLEON-SA9A-830-U-T2R**

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:	P317593
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA9A-830-U-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34491 lumens
Efficiency:	N/A
Efficacy:	118.9 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	290
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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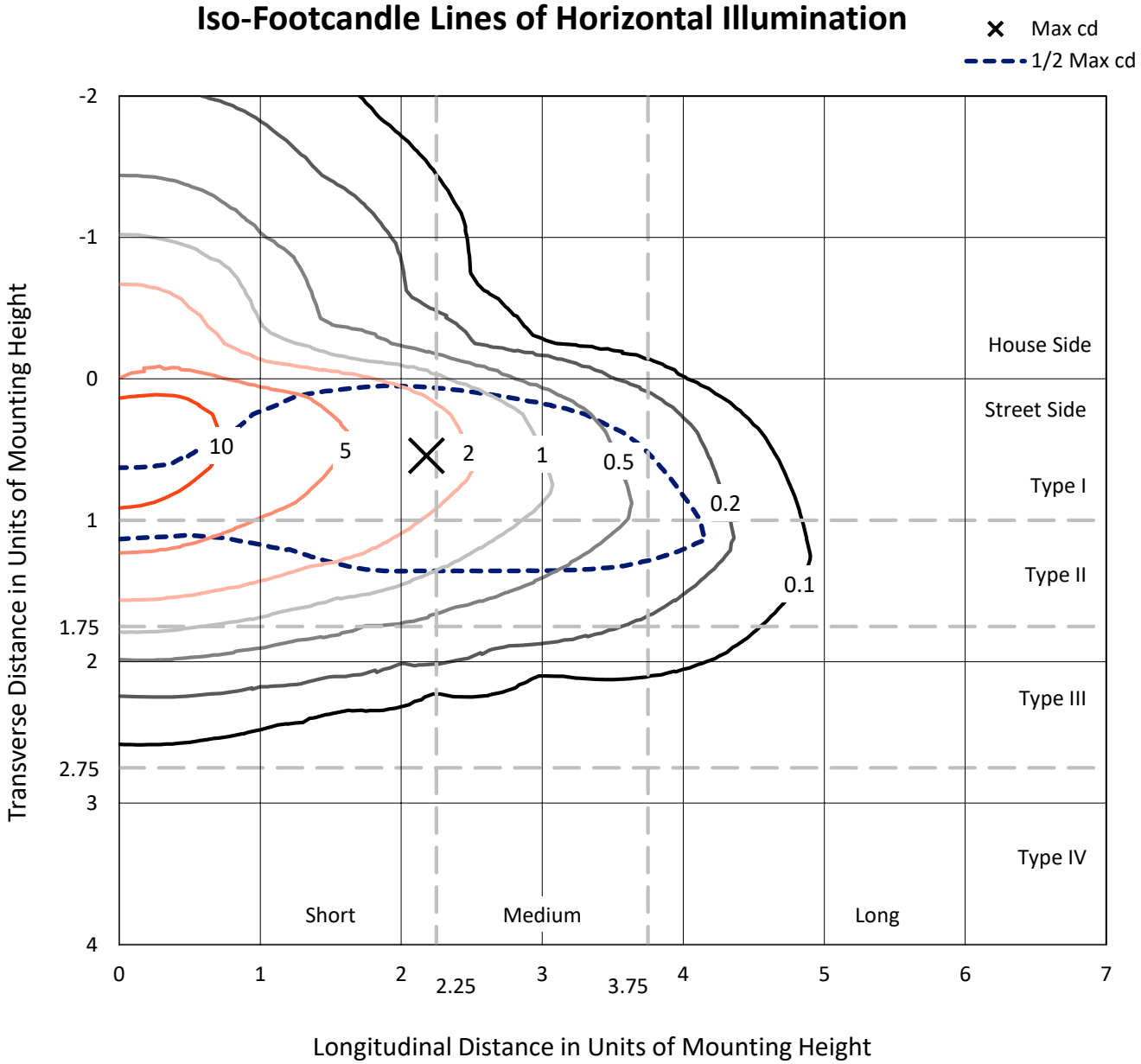
Scaled Data Report

REPORT NUMBER: P317593
CATALOG NUMBER: GLEON-SA9A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - N/A

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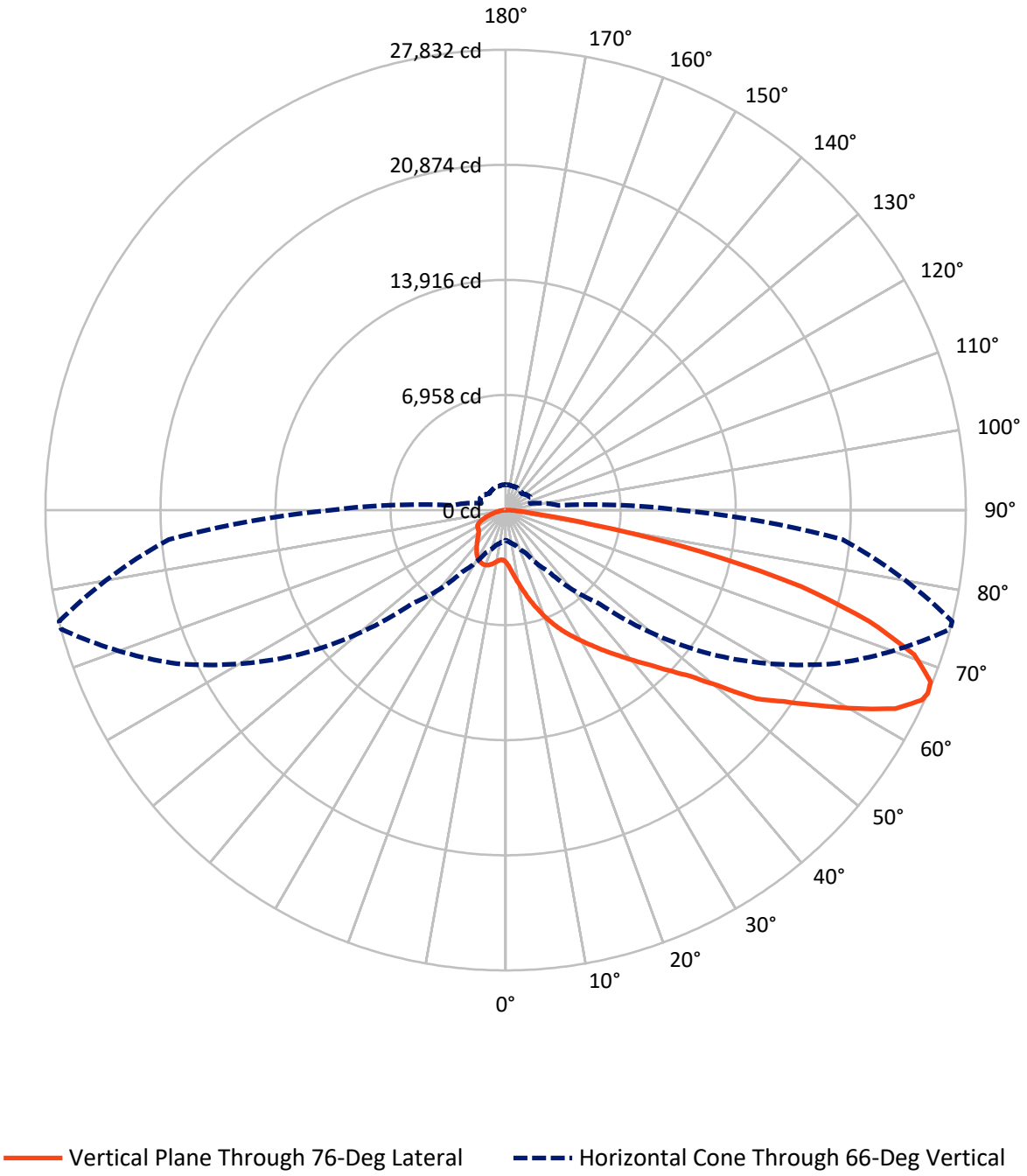
Luminous Intensity Polar Plot



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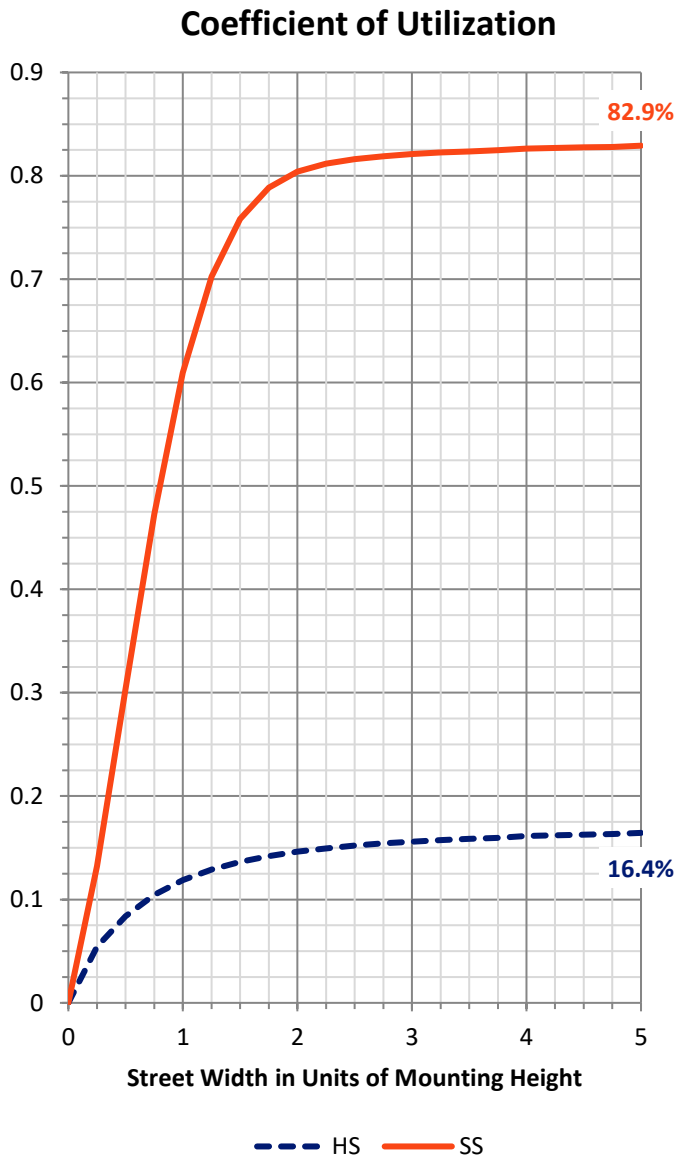
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5803.7	0.0	5803.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28687.4	0.0	28687.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	34491.0	0.0	34491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	1.1
10°-20°	1504.1	4.4
20°-30°	2922.9	8.5
30°-40°	4770.8	13.8
40°-50°	6518.1	18.9
50°-60°	7592.3	22.0
60°-70°	6806.6	19.7
70°-80°	3439.8	10.0
80°-90°	555.5	1.6
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°	34491.0	100.0
0°-180°	34491.0	100.0



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REPORT NUMBER: P317593
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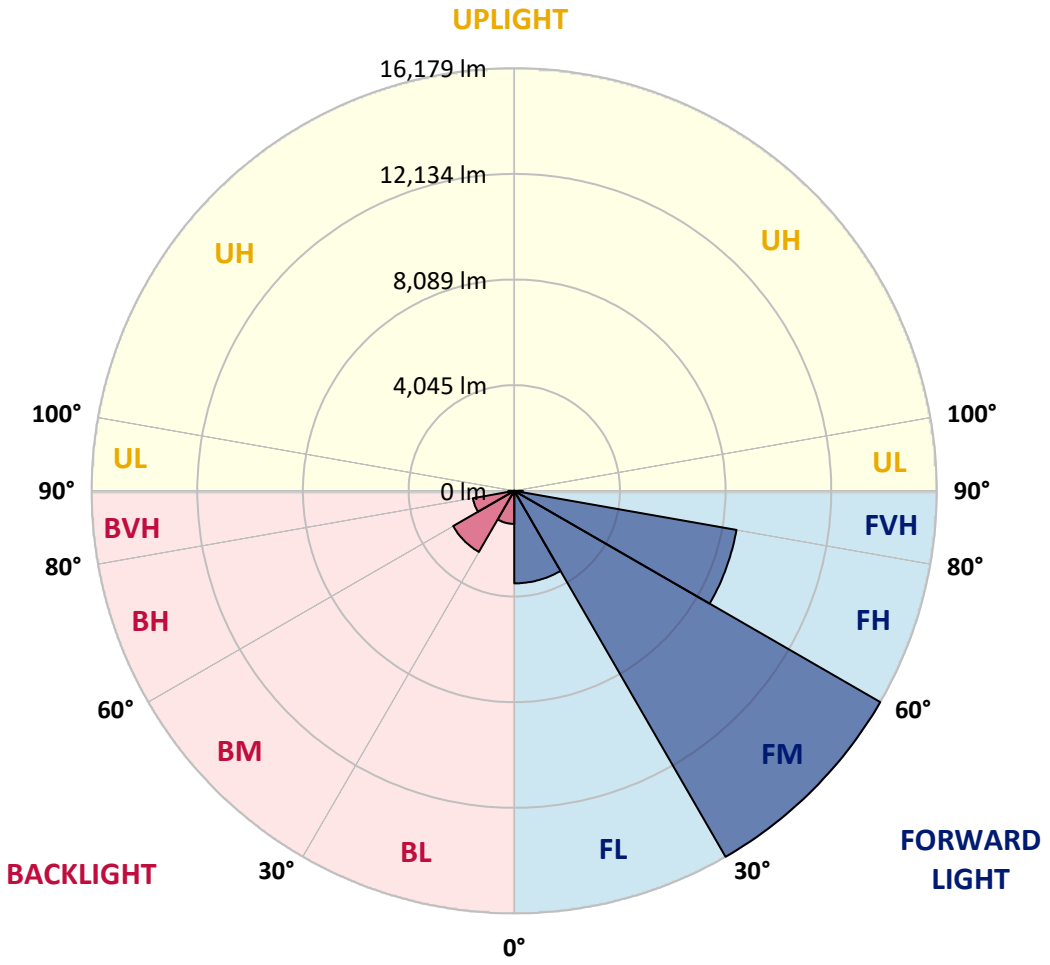
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3542.1	10.3			
FM	(30°-60°)	16178.7	46.9			
FH	(60°-80°)	8638.5	25.0			G4/12000
FVH	(80°-90°)	328.0	1.0			G3/500
BL	(0°-30°)	1265.8	3.7	B3/2500		
BM	(30°-60°)	2702.5	7.8	B3/5000		
BH	(60°-80°)	1607.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	227.4	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-G4
Type II Short



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Scaled Data Report

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	*3149.8*	3149.8
2.5°	4181.4	4118.2	4112.3	4019.8	3998.7	3821.9	3691.9	3556.1	3401.6	*3371.1*	3249.3
5°	5371.1	5365.2	5284.4	5133.4	5015.1	4713.0	4414.4	4098.3	3751.7	*3695.5*	3421.5
7.5°	6441.3	6431.9	6369.9	6207.1	6036.2	5665.0	5238.7	4754.0	4191.9	*4108.8*	3654.5
10°	7253.9	7250.4	7229.3	7109.9	6964.7	6608.7	6138.0	5476.4	4703.6	*4590.1*	3946.0
12.5°	7881.5	7888.6	7902.6	7860.5	7791.4	7488.1	7005.7	6242.2	5249.3	*5136.9*	4270.4
15°	8306.6	8327.7	8400.3	8460.0	8496.3	8310.1	7842.9	7025.6	5860.5	*5725.9*	4629.9
17.5°	8520.9	8544.3	8669.6	8849.9	9016.2	8997.4	8626.3	7772.6	6447.1	*6317.2*	5016.3
20°	8705.9	8723.4	8864.0	9080.6	9374.5	9504.5	9296.0	8491.6	7090.0	*6935.4*	5426.1
22.5°	9242.2	9264.4	9306.6	9429.5	9689.5	9928.3	9827.6	9171.9	7679.0	*7534.9*	5814.8
25°	10277.3	10304.2	10212.9	10108.7	10157.8	10324.1	10342.8	9792.5	8276.1	*8113.4*	6232.9
27.5°	11524.3	11563.0	11407.2	11139.1	10904.9	10840.5	10818.2	10300.7	8846.4	*8657.9*	6646.2
30°	12745.6	12812.3	12609.8	12262.0	11832.3	11530.2	11306.5	10798.3	9408.4	*9228.1*	7036.1
32.5°	13938.8	13911.8	13617.9	13278.4	12774.9	12396.7	11855.7	11332.3	10040.7	*9833.5*	7423.7
35°	14756.1	14765.4	14492.6	14089.8	13609.7	13319.3	12591.0	11908.4	10685.9	*10495.1*	7864.0
37.5°	15451.6	15408.3	15099.2	14723.3	14310.0	14185.8	13451.7	12543.0	11385.0	*11176.5*	8332.3
40°	15683.5	15633.1	15430.5	15160.1	14828.7	14818.1	14401.3	13262.0	12175.3	*11969.3*	8860.4
42.5°	15542.9	15478.5	15395.4	15321.6	15219.8	15266.6	15293.5	14105.0	13044.2	*12813.5*	9471.7
45°	15024.2	14927.0	14985.6	15146.0	15367.3	15631.9	16099.1	15038.3	14017.2	*13824.0*	10189.4
47.5°	14226.8	14139.0	14321.7	14664.7	15266.6	15936.4	16861.4	16068.7	15178.8	*14986.8*	11211.7
50°	13105.1	13130.8	13391.9	14016.1	14925.9	16076.9	17800.5	17432.8	16867.3	*16688.1*	12606.3
52.5°	11264.4	11269.0	12004.4	13029.0	14321.7	16004.3	18321.6	19176.3	19172.8	*18956.2*	13934.1
55°	9554.8	9659.0	10241.0	11602.8	13342.8	15713.9	18685.7	20024.1	20686.8	*20432.8*	15171.8
57.5°	7885.1	7945.9	8497.5	9865.1	11945.8	14939.9	19059.3	21041.6	22431.5	*22271.1*	16710.4
60°	5985.8	6079.5	6649.7	7913.2	10159.0	13566.4	19094.4	22103.7	24517.0	*24355.4*	18428.1
62.5°	3885.2	4046.7	4580.7	5764.5	7997.5	11591.1	18279.4	22798.0	26493.5	*26436.1*	19952.7
65°	2233.0	2354.7	2725.9	3639.3	5517.4	9111.0	16341.5	22531.1	27710.1	*27677.3*	20522.9
66°	*1824.3*	*1900.4*	*2185.0*	*2844.2*	*4552.6*	*8001.0*	*15215.1*	*21967.8*	*27830.7*	*27831.9*	*20457.3*
67.5°	1459.0	1492.9	1620.6	2036.3	3359.4	6341.8	13202.3	20725.5	27680.8	*27721.8*	20034.6
70°	1207.2	1224.8	1264.6	1365.3	1833.7	3824.3	9371.0	17497.2	26176.2	*26207.8*	18384.8
72.5°	1083.1	1093.7	1108.9	1122.9	1293.9	2137.0	5723.5	13997.3	22950.3	*22991.2*	15870.8
75°	981.2	987.1	984.8	985.9	1085.5	1361.8	2957.8	10450.6	18556.9	*18475.0*	12157.8
77.5°	861.8	867.7	856.0	858.3	960.2	1046.8	1471.9	7316.0	12523.1	*11944.7*	6850.0
80°	728.3	733.0	728.3	736.5	836.0	790.4	856.0	4115.8	5537.3	*5237.6*	2435.5
82.5°	550.3	570.2	584.3	617.1	688.5	562.0	572.6	1603.0	1686.1	*1605.3*	747.1
85°	241.2	293.9	440.3	471.9	517.6	337.2	375.9	653.4	686.2	*665.1*	271.7
87.5°	63.2	69.1	217.8	274.0	286.9	152.2	195.5	297.4	313.8	*297.4*	90.2
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: P317593
CATALOG NUMBER: GLEON-SA9A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	3184.9	3127.6	3024.5	2933.2	2864.1	2817.3	2770.4	2747.0	2733.0	2718.9	2721.2
5°	3286.8	3170.9	2994.1	2868.8	2798.5	2754.0	2730.6	2721.2	2715.4	2701.3	2701.3
7.5°	3440.2	3276.3	3032.7	2903.9	2848.9	2814.9	2800.9	2796.2	2789.2	2772.8	2775.1
10°	3633.4	3403.9	3113.5	2988.2	2937.9	2900.4	2880.5	2873.5	2860.6	2841.9	2844.2
12.5°	3860.6	3562.0	3220.1	3088.9	3028.0	2977.7	2944.9	2925.0	2902.7	2878.2	2879.3
15°	4108.8	3734.1	3334.8	3179.1	3095.9	3025.7	2973.0	2939.0	2903.9	2873.5	2872.3
17.5°	4360.5	3900.4	3422.6	3228.3	3115.8	3023.3	2951.9	2899.2	2855.9	2818.4	2814.9
20°	4632.2	4050.3	3471.8	3223.6	3078.4	2968.3	2873.5	2807.9	2759.9	2722.4	2716.6
22.5°	4908.5	4190.8	3480.0	3175.6	2995.2	2860.6	2761.1	2688.5	2639.3	2600.6	2586.6
25°	5161.5	4299.7	3446.1	3083.1	2879.3	2734.1	2636.9	2563.2	2523.4	2477.7	2463.6
27.5°	5392.1	4375.8	3378.1	2964.8	2749.3	2606.5	2515.2	2451.9	2408.6	2373.5	2361.8
30°	5599.4	4416.8	3266.9	2824.3	2615.9	2485.9	2408.6	2365.3	2327.8	2283.3	2275.1
32.5°	5796.1	4416.8	3124.0	2670.9	2483.5	2379.3	2333.7	2306.7	2264.6	2221.3	2209.5
35°	5992.8	4389.8	2955.4	2510.5	2361.8	2303.2	2300.9	2269.3	2204.9	2146.3	2131.1
37.5°	6200.1	4334.8	2765.7	2360.6	2262.2	2269.3	2289.2	2218.9	2127.6	2044.4	2022.2
40°	6434.3	4258.7	2569.0	2230.6	2179.1	2254.0	2257.6	2146.3	1968.3	1892.2	1872.3
42.5°	6709.4	4182.6	2386.4	2115.9	2113.5	2208.4	2197.8	1989.4	1882.9	1844.2	1833.7
45°	7071.3	4139.2	2213.1	2007.0	2062.0	2134.6	2096.0	1902.8	1858.3	1836.0	1826.7
47.5°	7641.5	4161.5	2053.8	1920.3	2010.5	2060.8	1906.3	1867.6	1836.0	1809.1	1799.7
50°	8355.8	4148.6	1925.0	1860.6	1951.9	1983.6	1820.8	1822.0	1805.6	1775.1	1761.1
52.5°	8893.2	4047.9	1841.9	1826.7	1900.4	1846.6	1766.9	1777.5	1769.3	1724.8	1709.6
55°	9411.9	3961.3	1799.7	1813.8	1863.0	1675.6	1703.7	1729.5	1721.3	1677.9	1670.9
57.5°	10057.1	3944.9	1774.0	1817.3	1831.3	1590.1	1642.8	1676.8	1670.9	1652.2	1648.7
60°	10847.5	3949.6	1750.5	1823.1	1796.2	1526.9	1585.4	1628.8	1632.3	1628.8	1626.4
62.5°	11281.9	3821.9	1692.0	1806.7	1734.1	1471.9	1525.7	1589.0	1590.1	1597.2	1596.0
65°	10913.1	3440.2	1583.1	1749.4	1629.9	1426.2	1474.2	1543.3	1525.7	1557.3	1557.3
66°	*10554.8*	*3220.1*	*1529.2*	*1711.9*	*1585.4*	*1408.6*	*1457.8*	*1519.9*	*1497.6*	*1540.9*	*1540.9*
67.5°	9822.9	2848.9	1432.0	1632.3	1522.2	1384.0	1439.1	1481.2	1450.8	1515.2	1510.5
70°	8485.7	2203.7	1236.5	1452.0	1418.0	1347.7	1413.3	1403.9	1359.5	1457.8	1439.1
72.5°	7154.4	1674.4	993.0	1215.4	1259.9	1302.1	1377.0	1305.6	1249.4	1318.5	1277.5
75°	5551.4	1258.8	784.5	944.9	1064.4	1230.6	1333.7	1192.0	1111.2	1104.2	1081.9
77.5°	3001.1	864.1	621.8	721.3	845.4	1141.7	1304.4	1070.2	948.5	920.4	902.8
80°	1188.5	562.0	452.0	546.8	591.3	1012.9	1234.2	928.5	782.2	754.1	727.1
82.5°	490.6	332.5	291.6	366.5	385.2	866.5	1107.7	761.1	604.2	836.0	887.6
85°	210.8	182.7	173.3	189.7	217.8	607.7	881.7	580.8	652.2	582.0	462.5
87.5°	63.2	77.3	73.8	72.6	79.6	145.2	469.5	323.2	478.9	181.5	135.8
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

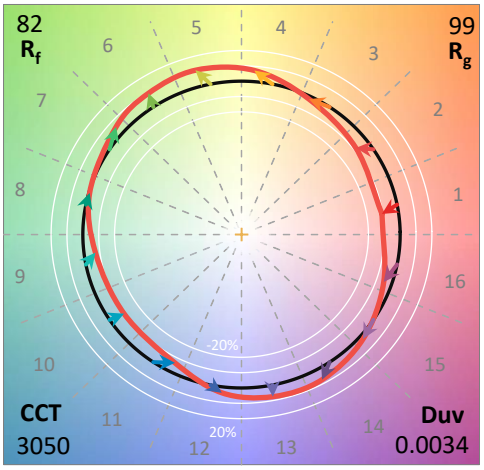
Test Information

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

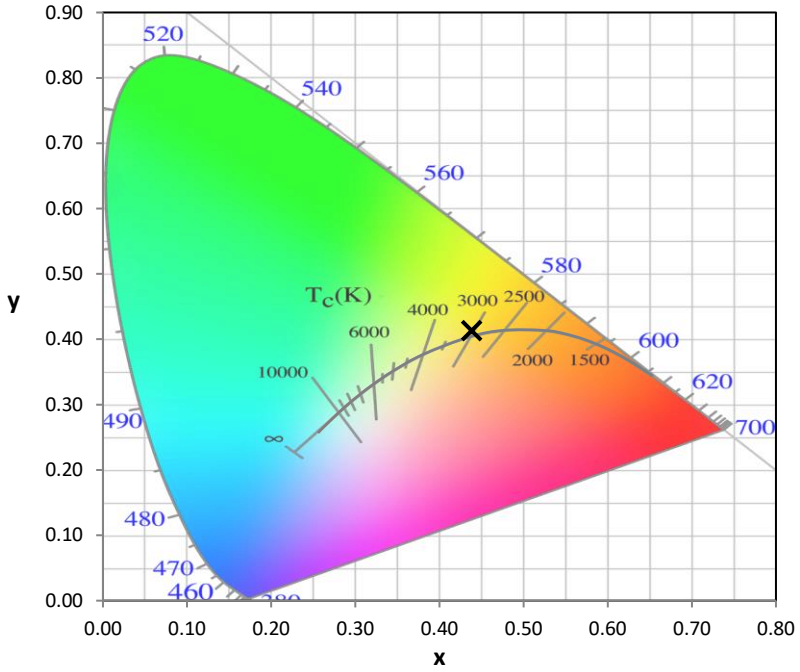
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

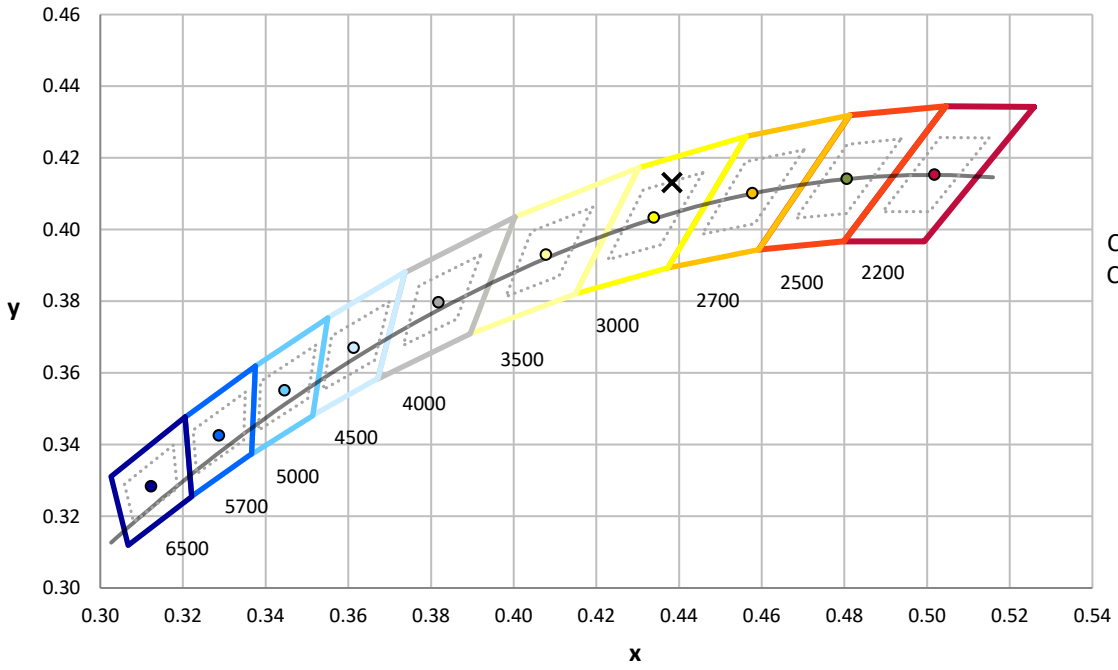
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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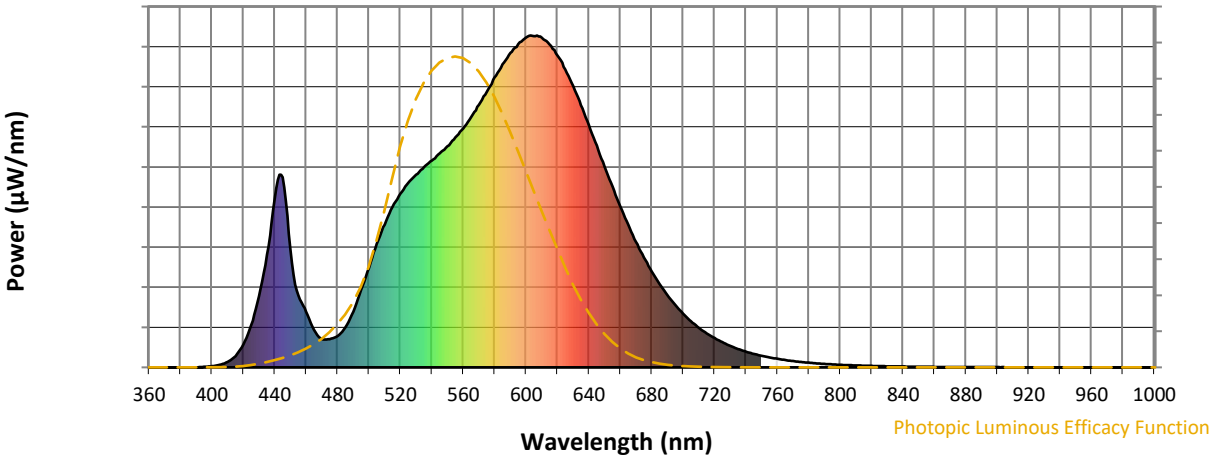
Photopic Flux vs. Wavelength



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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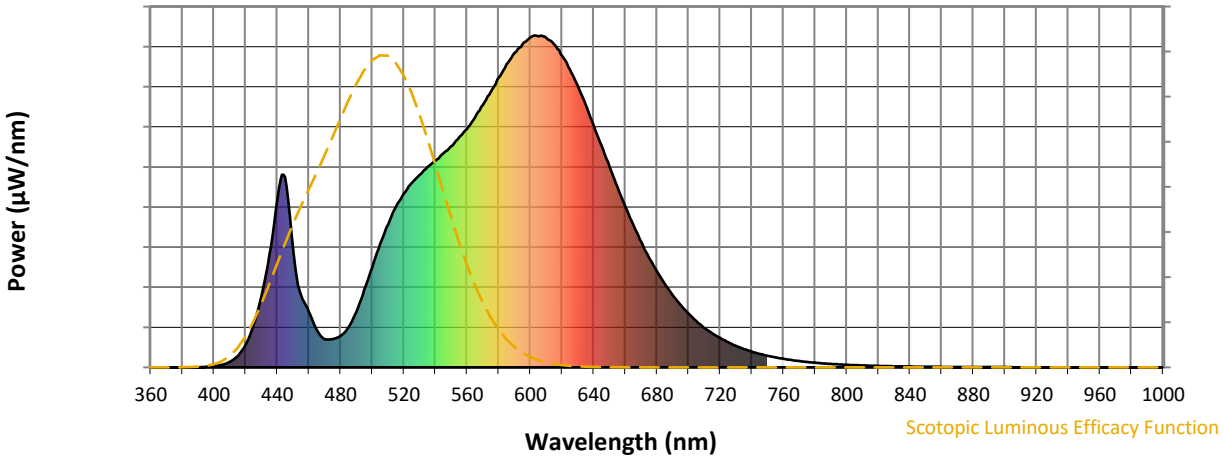
Scotopic Flux vs. Wavelength



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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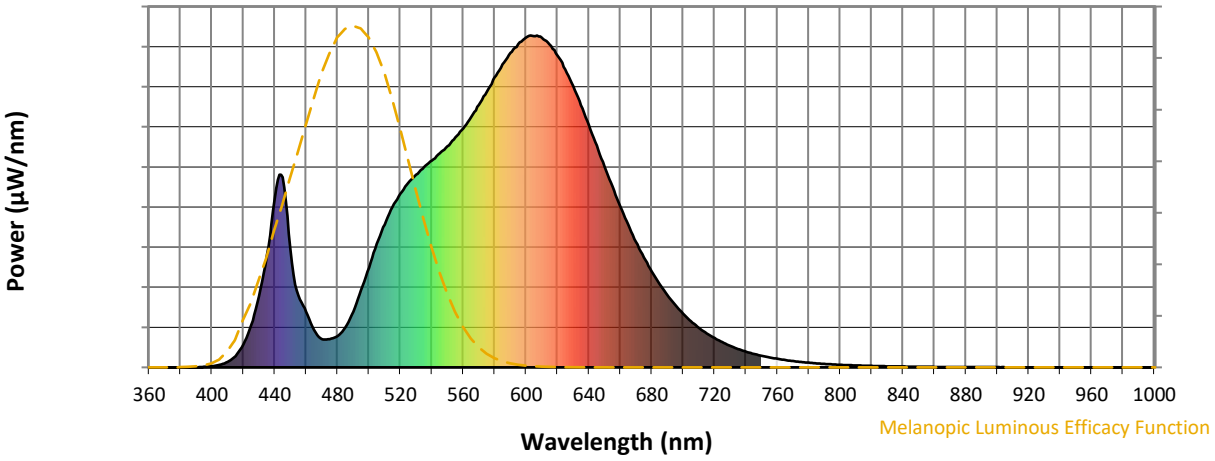
Melanopic Flux vs. Wavelength



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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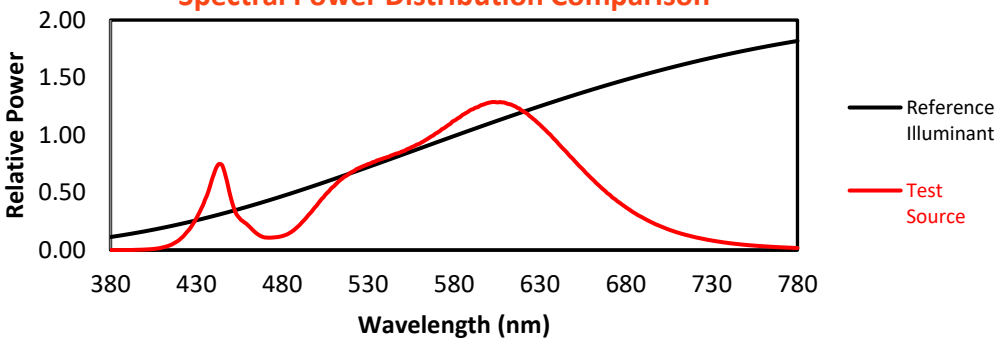
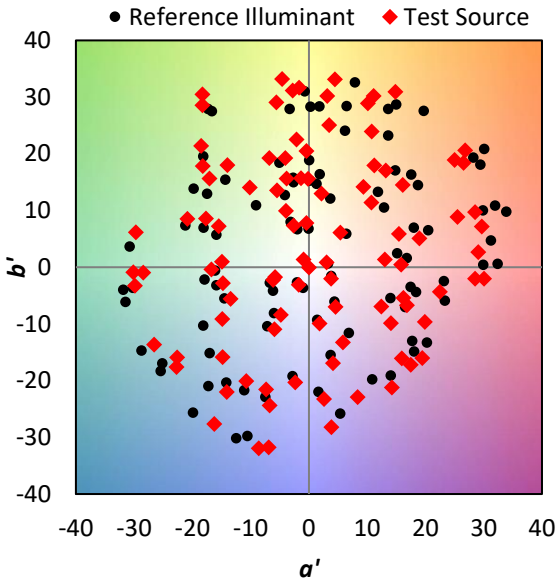
Summary

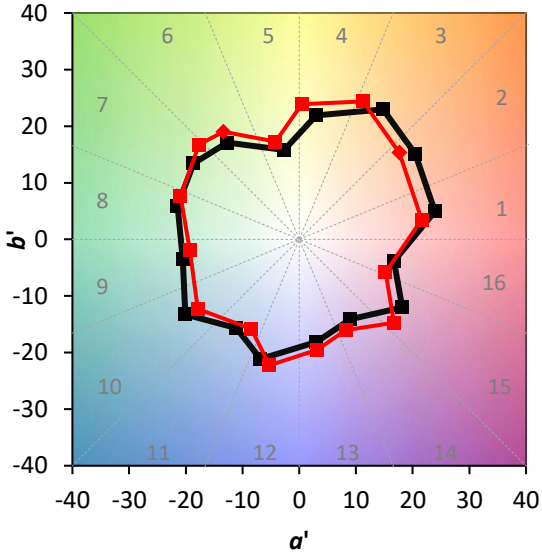
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

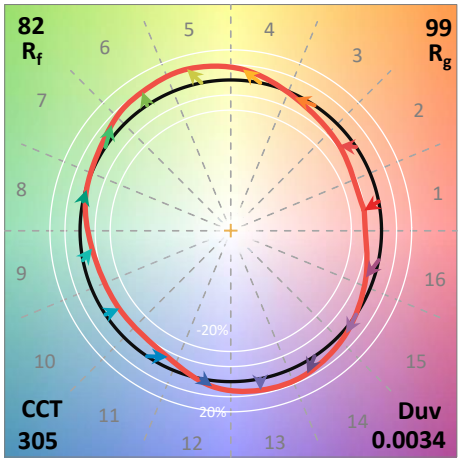
Spectral Power Distribution Comparison

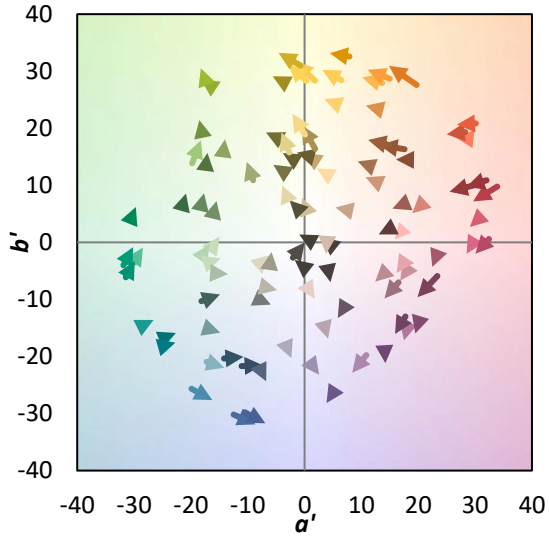


Color Vector Graphics









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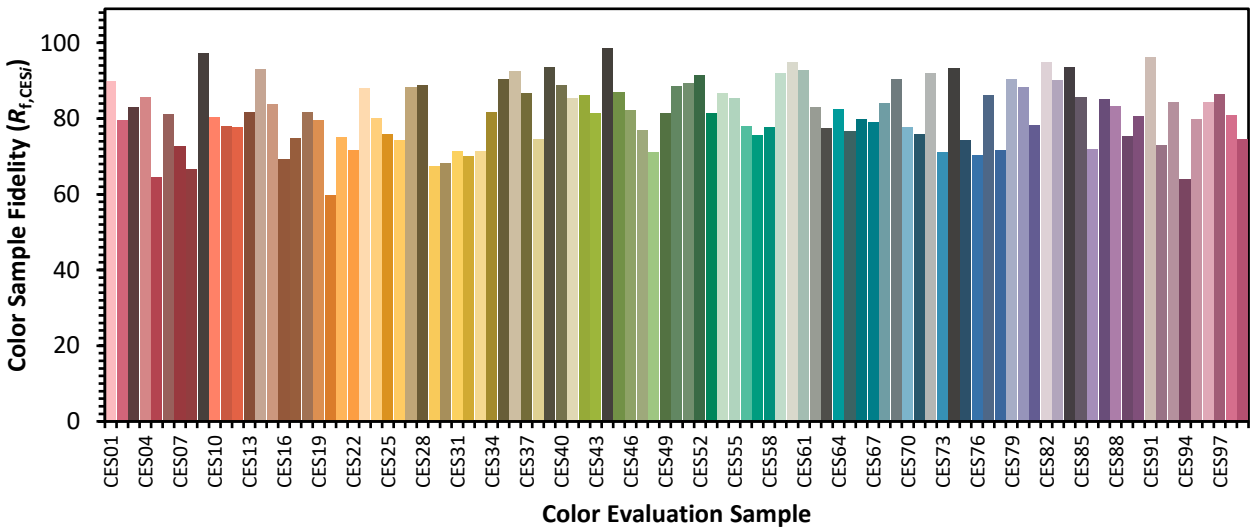
Individual Sample Fidelity Index ($R_{f,i}$)

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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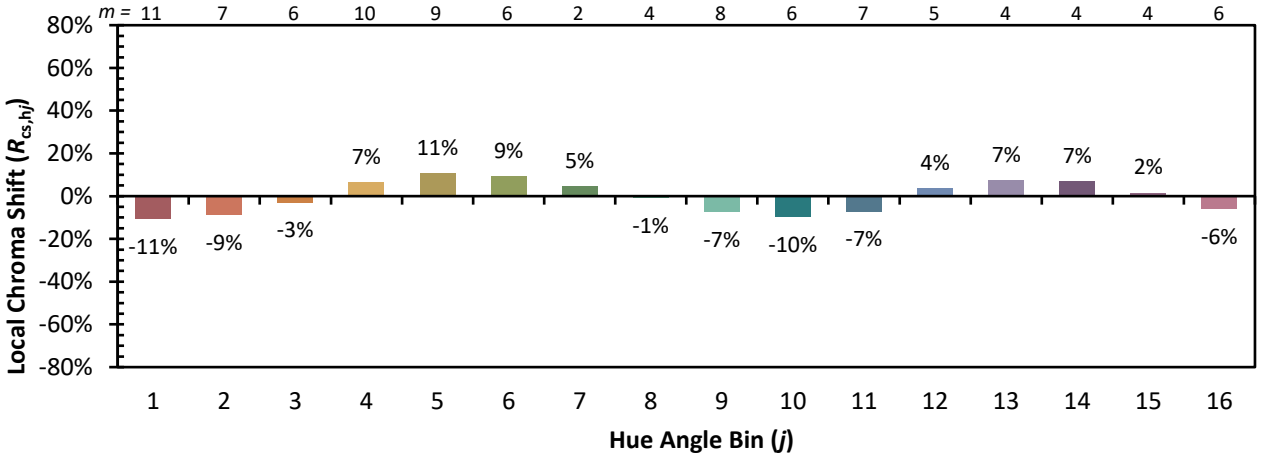
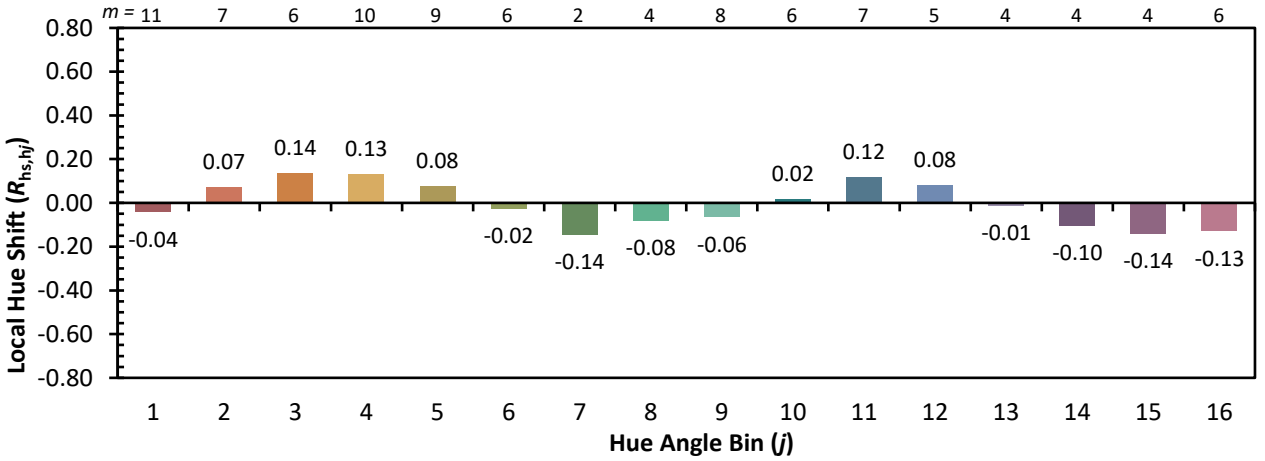
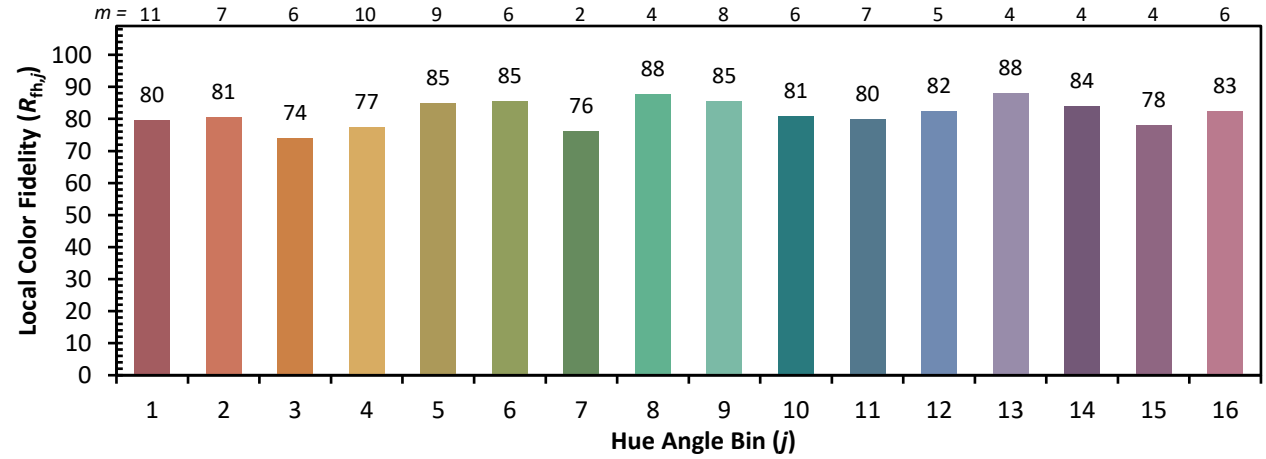
Color Rendition by Hue-Angle Bin







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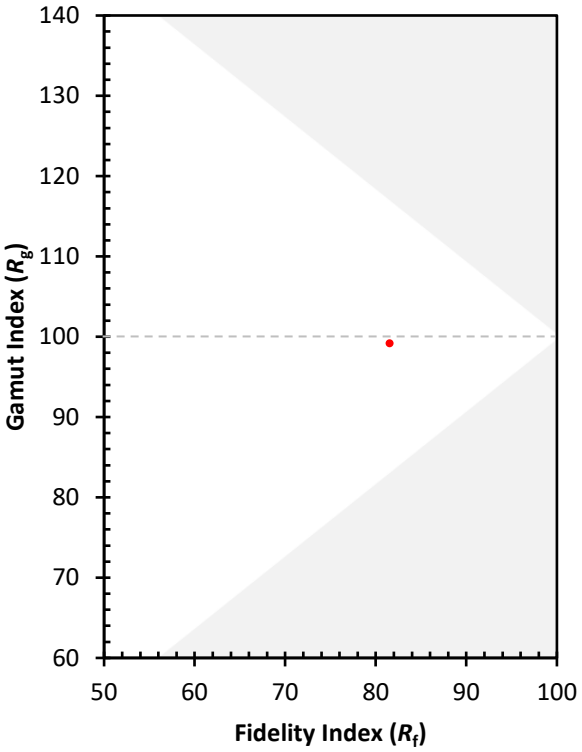
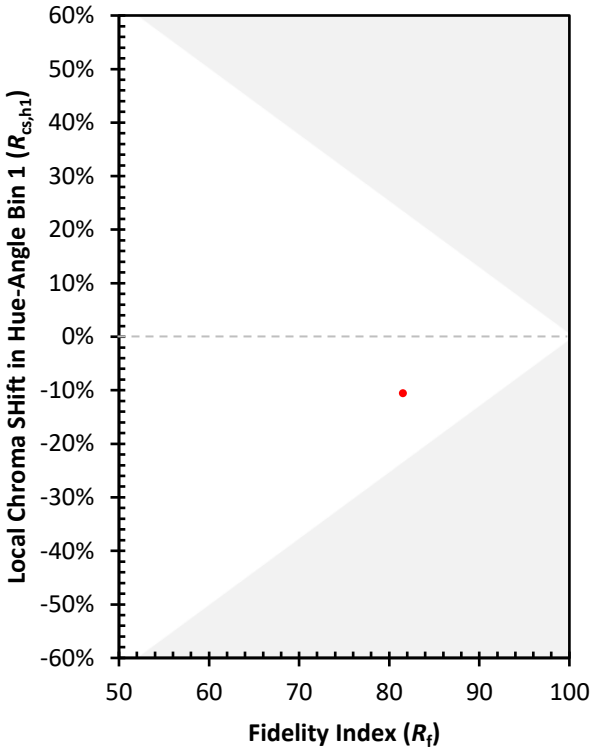
Measure Comparisons





(END OF REPORT)