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: P317933

Luminaire Tested: **GLEON-SA9C-830-U-T3R**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P317933
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA9C-830-U-T3R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	51376 lumens
Efficiency:	N/A
Efficacy:	102.5 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B4 - U0 - G5

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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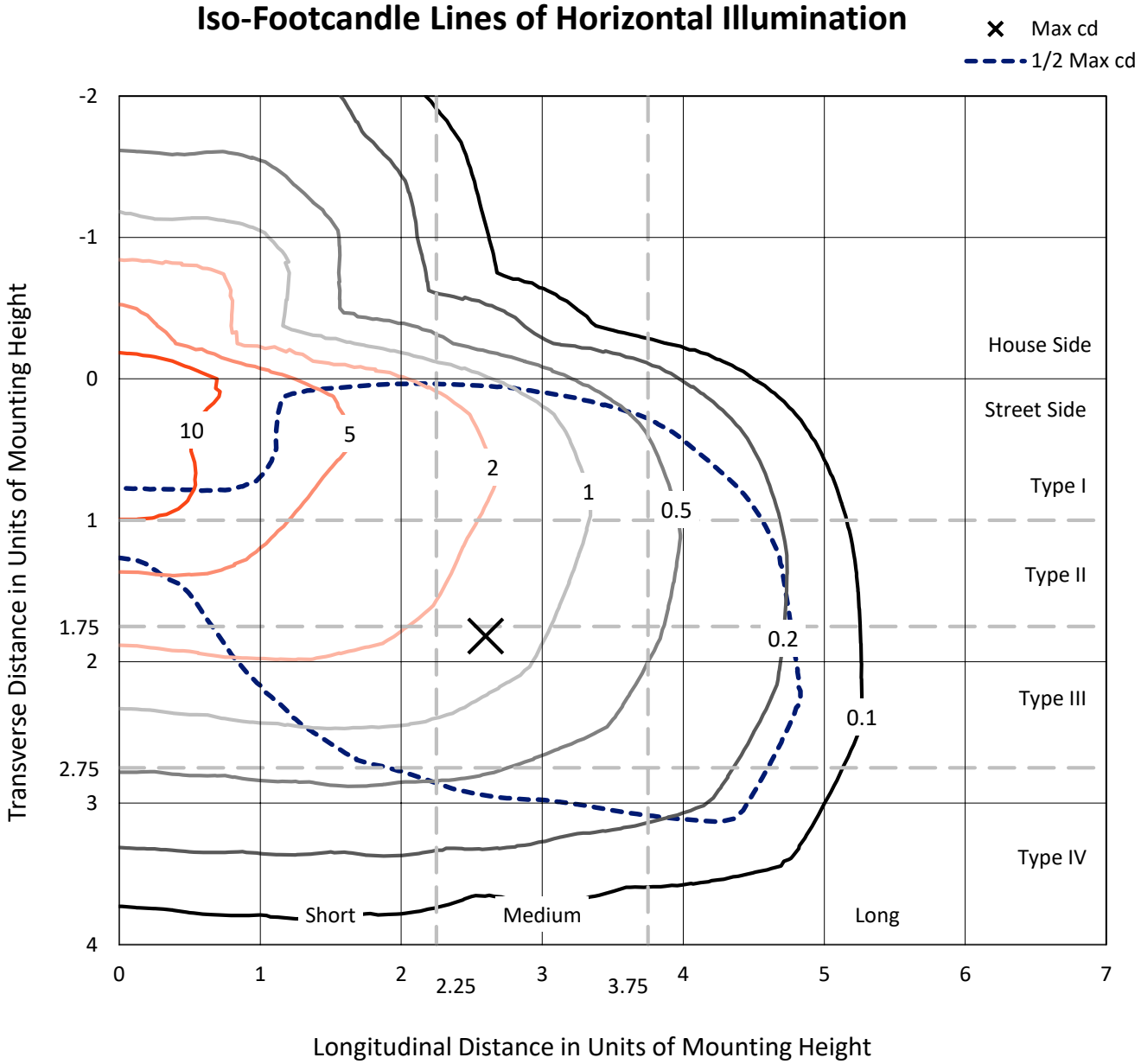
REPORT NUMBER: P317933
CATALOG NUMBER: GLEON-SA9C-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
Type IV - Medium - N/A

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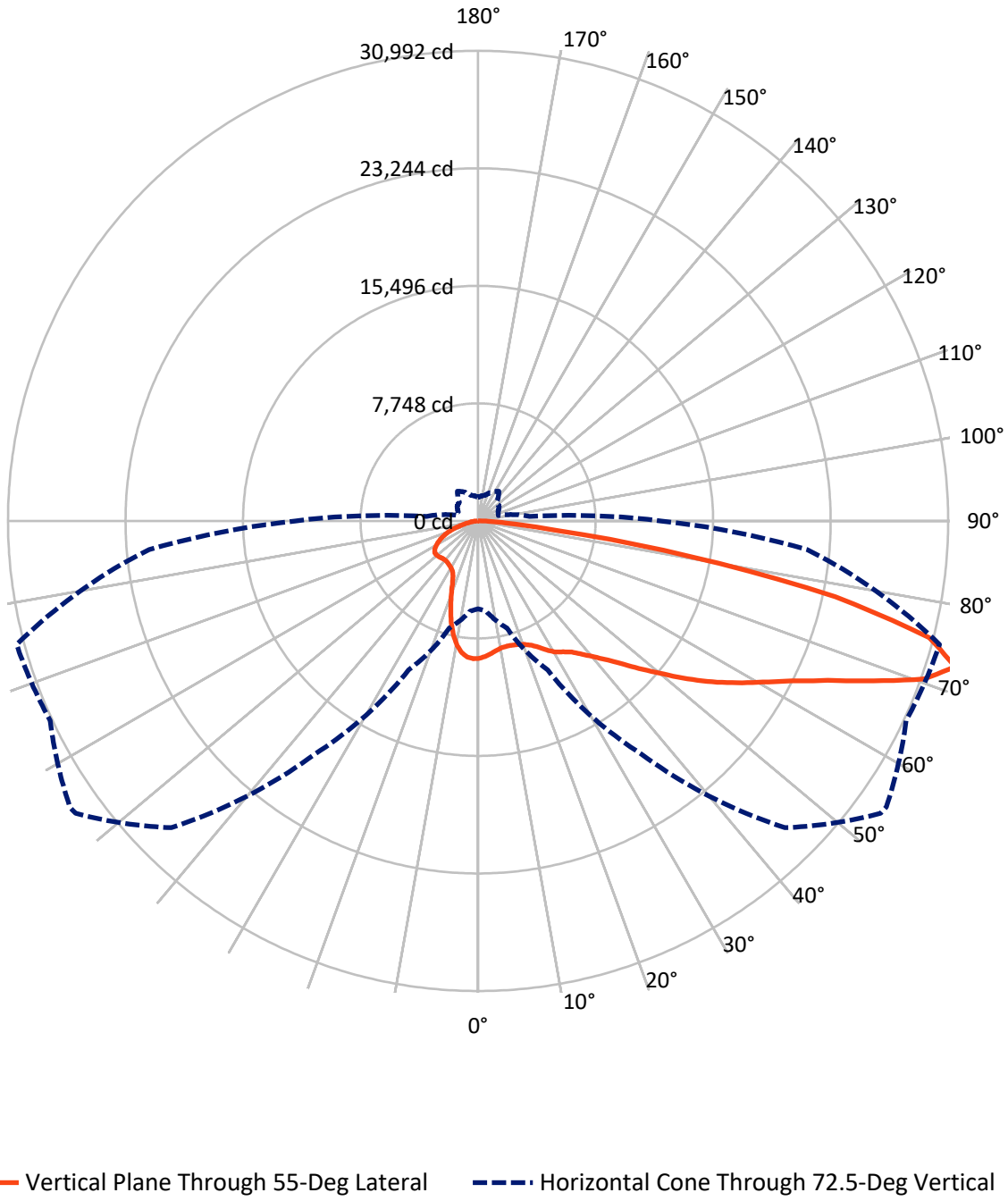
Luminous Intensity Polar Plot



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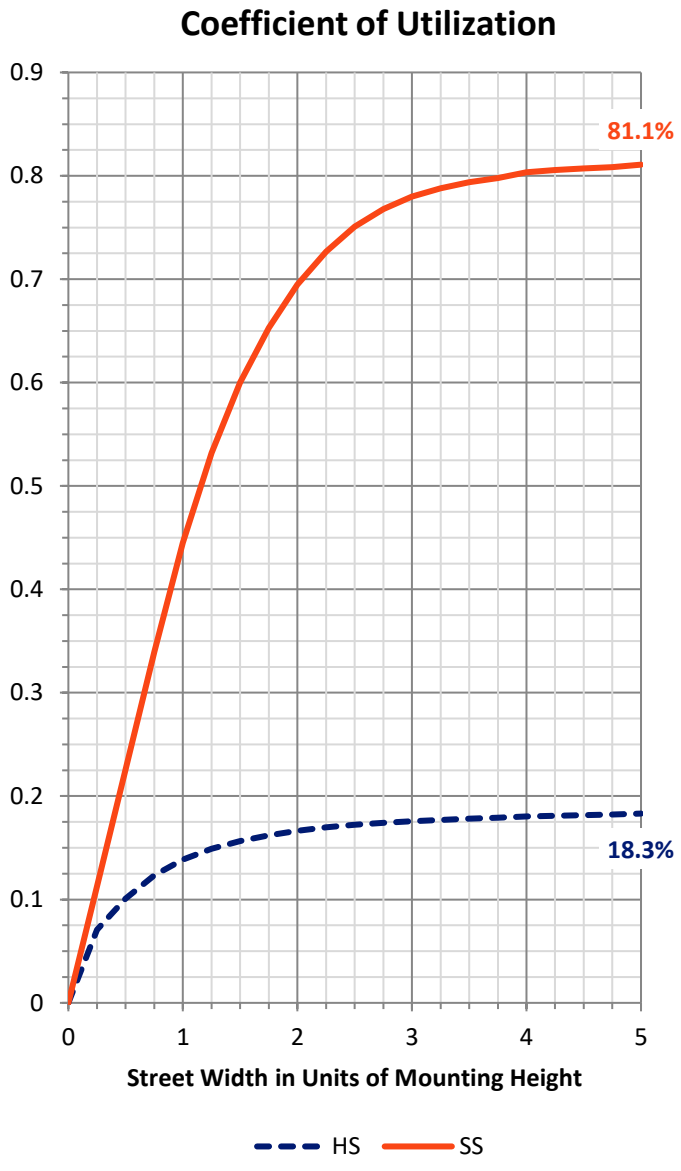
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9549.1	0.0	9549.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41826.9	0.0	41826.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	51376.0	0.0	51376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.0	1.6
10°-20°	2183.1	4.2
20°-30°	3599.3	7.0
30°-40°	5324.3	10.4
40°-50°	7431.6	14.5
50°-60°	9676.2	18.8
60°-70°	11891.8	23.1
70°-80°	9321.7	18.1
80°-90°	1128.1	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51376.0	100.0
0°-180°	51376.0	100.0



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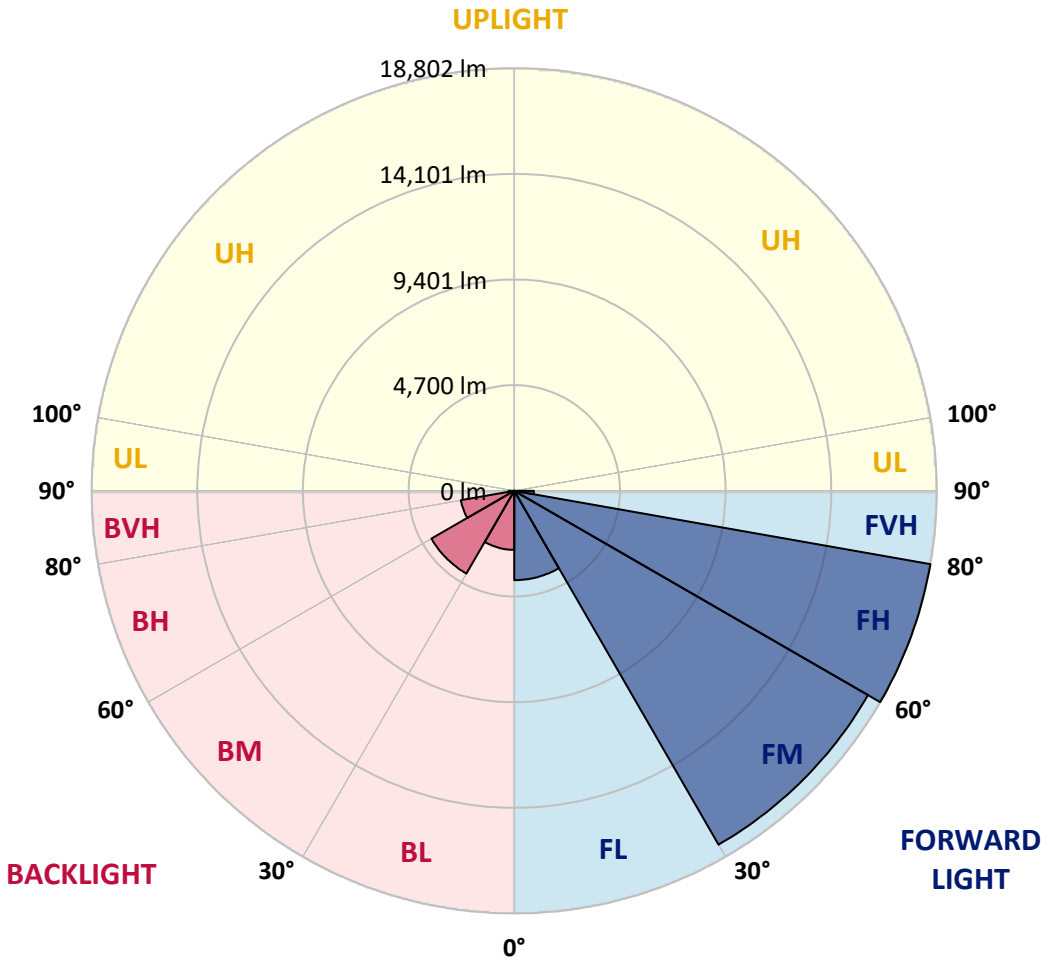
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3975.0	7.7			
FM	(30°-60°)	18177.8	35.4			
FH	(60°-80°)	18801.9	36.6			G5
FVH	(80°-90°)	872.2	1.7			G5
BL	(0°-30°)	2627.4	5.1	B4/5000		
BM	(30°-60°)	4254.3	8.3	B3/5000		
BH	(60°-80°)	2411.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	255.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type IV Medium



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REPORT NUMBER: P317933
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	*9061.6*	9061.6	9061.6	9061.6
2.5°	8766.6	8745.8	8771.8	8808.3	8848.2	8902.0	8933.2	*8947.1*	9000.9	9021.7	9066.8
5°	8360.6	8350.2	8393.5	8456.0	8544.5	8669.4	8770.1	*8789.2*	8931.5	9032.1	9124.1
7.5°	8065.6	8065.6	8115.9	8190.5	8289.4	8457.7	8600.0	*8626.1*	8867.3	9084.2	9254.2
10°	7831.3	7840.0	7899.0	7987.5	8103.7	8282.5	8471.6	*8501.1*	8849.9	9205.6	9476.4
12.5°	7675.1	7696.0	7749.8	7829.6	7973.6	8190.5	8430.0	*8469.9*	8886.4	9379.2	9743.6
15°	7774.0	7808.8	7814.0	7846.9	7926.7	8162.7	8454.3	*8495.9*	8964.4	9556.2	10047.3
17.5°	8207.9	8220.0	8166.2	8096.8	8058.6	8209.6	8527.2	*8570.5*	9058.2	9731.4	10338.8
20°	8867.3	8860.3	8744.1	8556.7	8362.3	8386.6	8646.9	*8692.0*	9184.8	9885.9	10630.3
22.5°	9700.2	9675.9	9497.2	9151.9	8820.4	8681.6	8856.9	*8895.0*	9375.7	10106.3	10942.7
25°	10710.1	10656.3	10420.3	9957.0	9469.4	9111.9	9172.7	*9209.1*	9653.4	10352.7	11229.0
27.5°	11775.6	11721.8	11421.6	10861.1	10212.1	9655.1	9608.2	*9639.5*	9969.2	10534.9	11440.7
30°	12889.6	12832.4	12558.2	11930.0	10999.9	10217.3	10014.3	*10026.4*	10191.3	10633.8	11614.2
32.5°	14008.9	13955.1	13648.0	12919.1	11855.4	10821.2	10307.6	*10291.9*	10324.9	10736.2	11810.3
35°	15143.8	15164.6	14805.4	13998.5	12802.9	11492.7	10654.6	*10621.6*	10548.8	10946.1	12087.9
37.5°	16358.5	16344.6	15879.5	15036.2	13793.7	12221.6	11152.6	*11147.4*	10895.8	11343.5	12523.5
40°	17170.6	17179.3	16896.4	16098.2	14795.0	13028.5	11791.2	*11779.1*	11449.4	11938.7	13094.4
42.5°	17488.1	17545.4	17618.3	17111.6	15843.1	13963.8	12553.0	*12535.6*	12221.6	12792.5	13766.0
45°	17510.7	17625.2	18076.4	18012.2	16905.1	15034.4	13526.5	*13477.9*	13252.3	13927.3	14567.7
47.5°	17316.3	17434.3	18184.0	18548.4	17854.3	16164.1	14664.8	*14626.7*	14432.3	15346.8	15435.3
50°	16891.2	17004.0	17961.9	18810.4	18635.1	17250.4	15976.7	*15876.1*	15771.9	16986.6	16427.9
52.5°	16094.7	16311.6	17665.1	18872.9	19101.9	18215.2	17356.2	*17290.3*	17347.6	18716.7	17422.2
55°	14208.5	14451.4	16899.9	18820.8	19447.3	19025.6	18735.8	*18732.3*	19029.1	20531.8	18489.4
57.5°	13151.7	13323.5	15341.6	18732.3	19856.8	19830.8	20101.5	*20134.4*	20712.3	22508.3	19606.9
60°	12554.7	12735.2	14552.0	18404.4	20491.9	20871.9	21494.9	*21560.8*	22423.3	24696.5	20951.7
62.5°	12011.6	12209.4	14062.7	17736.3	21239.8	22360.8	23164.2	*23223.2*	24234.9	26945.4	22251.5
65°	11083.2	11307.1	13346.0	17297.2	21920.0	24302.6	25286.5	*25326.4*	26315.5	29301.9	23245.8
67.5°	9771.3	9976.1	11994.2	16327.2	22423.3	26660.8	28108.0	*28130.6*	28378.7	30966.0	23754.2
70°	8239.1	8317.2	10068.1	14324.7	21828.1	28866.3	31200.3	*31205.5*	30259.8	32031.5	23670.9
72.5°	*5788.9*	*5972.8*	*7309.0*	*10843.8*	*18758.4*	*28597.4*	*32805.4*	*32864.4*	*31134.4*	*31493.6*	*21779.5*
75°	3550.4	3744.7	4584.6	6571.5	11900.5	22490.9	30310.1	*30719.6*	29494.5	28080.3	17791.8
77.5°	2373.9	2446.7	2991.6	3831.5	5391.5	12940.0	23303.0	*24073.5*	24502.1	20478.0	11378.2
80°	1324.0	1462.8	1983.4	2380.8	2398.2	5141.6	13972.5	*14152.9*	13632.3	8154.1	3510.5
82.5°	701.1	777.4	1324.0	1398.6	1308.4	1721.4	5207.6	*5212.8*	4355.5	2186.5	1042.9
85°	543.1	607.3	907.6	853.8	668.1	763.5	1717.9	*1811.6*	1481.9	895.4	340.1
87.5°	270.7	336.6	616.0	541.4	262.0	218.6	614.3	*655.9*	584.8	350.5	123.2
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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REPORT NUMBER: P317933
CATALOG NUMBER: GLEON-SA9C-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6	9061.6
2.5°	9084.2	9099.8	9118.9	9098.1	9091.1	9063.4	9016.5	9006.1	8981.8	8983.5	8997.4
5°	9164.0	9190.0	9179.6	9099.8	9004.4	8870.7	8731.9	8613.9	8535.8	8530.6	8525.4
7.5°	9316.7	9334.1	9252.5	9025.2	8757.9	8449.1	8157.5	7902.5	7748.0	7709.8	7701.2
10°	9556.2	9552.7	9328.9	8870.7	8338.0	7786.2	7317.7	6963.7	6757.2	6696.4	6680.8
12.5°	9823.4	9783.5	9354.9	8589.6	7744.5	6979.3	6385.8	5991.9	5776.7	5707.3	5690.0
15°	10099.3	10000.4	9290.7	8169.7	7015.7	6109.9	5486.9	5122.5	5006.3	4968.1	4961.2
17.5°	10356.1	10165.3	9106.7	7600.5	6184.5	5244.0	4758.1	4612.4	4640.1	4690.5	4692.2
20°	10607.8	10276.3	8811.7	6882.1	5308.2	4530.8	4366.0	4473.5	4605.4	4707.8	4721.7
22.5°	10855.9	10354.4	8431.7	6052.6	4523.9	4130.0	4246.2	4442.3	4593.3	4704.3	4723.4
25°	11064.1	10373.5	7907.7	5167.7	3979.0	3979.0	4189.0	4374.6	4523.9	4633.2	4652.3
27.5°	11140.5	10245.1	7168.4	4348.6	3704.8	3909.6	4109.1	4263.6	4390.3	4506.5	4527.3
30°	11170.0	10007.3	6314.7	3690.9	3592.0	3835.0	4001.6	4133.4	4253.2	4362.5	4381.6
32.5°	11175.2	9721.0	5408.9	3317.9	3513.9	3756.9	3867.9	3984.2	4112.6	4156.0	4162.9
35°	11208.2	9382.6	4454.5	3127.0	3441.1	3684.0	3772.5	3855.8	3647.6	3663.2	3677.1
37.5°	11303.6	9047.7	3656.2	3019.4	3394.2	3645.8	3751.7	3449.7	3286.6	3248.4	3243.2
40°	11482.3	8690.3	3064.5	2932.6	3376.9	3664.9	3618.1	3220.7	2939.6	2729.6	2698.4
42.5°	11730.5	8305.0	2686.2	2875.4	3389.0	3756.9	3432.4	3000.3	2533.5	2398.2	2380.8
45°	12009.9	7900.7	2481.4	2835.4	3430.6	3828.0	3394.2	2707.0	2344.4	2242.0	2233.3
47.5°	12280.6	7406.2	2375.6	2818.1	3487.9	3770.8	3232.8	2616.8	2254.1	2200.3	2205.5
50°	12591.2	6960.2	2311.4	2799.0	3538.2	3734.3	3050.6	2569.9	2219.4	2285.4	2354.8
52.5°	12853.2	6498.6	2254.1	2760.8	3557.3	3670.1	3003.8	2578.6	2219.4	2346.1	2412.0
55°	13163.8	6149.8	2188.2	2681.0	3520.9	3487.9	2970.8	2630.7	2245.4	2165.6	2172.6
57.5°	13564.7	6035.3	2115.3	2556.1	3399.4	3222.4	2955.2	2681.0	2229.8	2179.5	2196.9
60°	14120.0	6156.8	2085.8	2392.9	3210.3	3014.2	2956.9	2655.0	2120.5	2033.7	2035.5
62.5°	14649.2	6292.1	2084.1	2290.6	2977.7	2828.5	2917.0	2569.9	2065.0	2014.7	2033.7
65°	14822.7	6155.0	2000.8	2176.0	2715.7	2606.4	2844.1	2479.7	2023.3	1947.0	1943.5
67.5°	14590.2	5729.9	1832.5	1990.4	2415.5	2347.8	2748.7	2372.1	1957.4	1894.9	1884.5
70°	13899.6	4780.7	1624.2	1745.7	2073.7	2056.3	2597.7	2247.2	1868.9	1815.1	1770.0
72.5°	*12041.1*	*3406.4*	*1369.1*	*1452.4*	*1688.4*	*1744.0*	*2389.5*	*2084.1*	*1744.0*	*1627.7*	*1558.3*
75°	9889.3	2521.4	1124.5	1141.8	1282.4	1433.3	2103.2	1893.2	1596.5	1398.6	1344.8
77.5°	6056.1	1542.7	895.4	902.3	919.7	1143.5	1731.8	1679.7	1409.0	1166.1	1127.9
80°	1960.9	841.6	647.3	680.2	628.2	838.1	1339.6	1429.9	1209.5	975.2	933.6
82.5°	746.2	491.1	437.3	459.8	435.6	562.2	977.0	1145.3	990.8	801.7	652.5
85°	360.9	277.6	258.6	289.8	269.0	288.1	624.7	843.3	751.4	522.3	485.9
87.5°	128.4	123.2	98.9	133.6	114.5	102.4	190.9	425.1	496.3	359.2	321.0
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

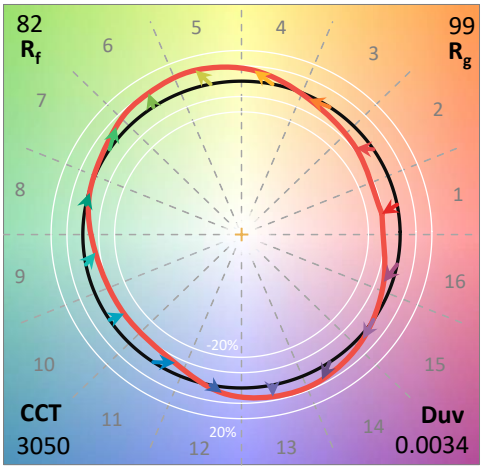
Test Information

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

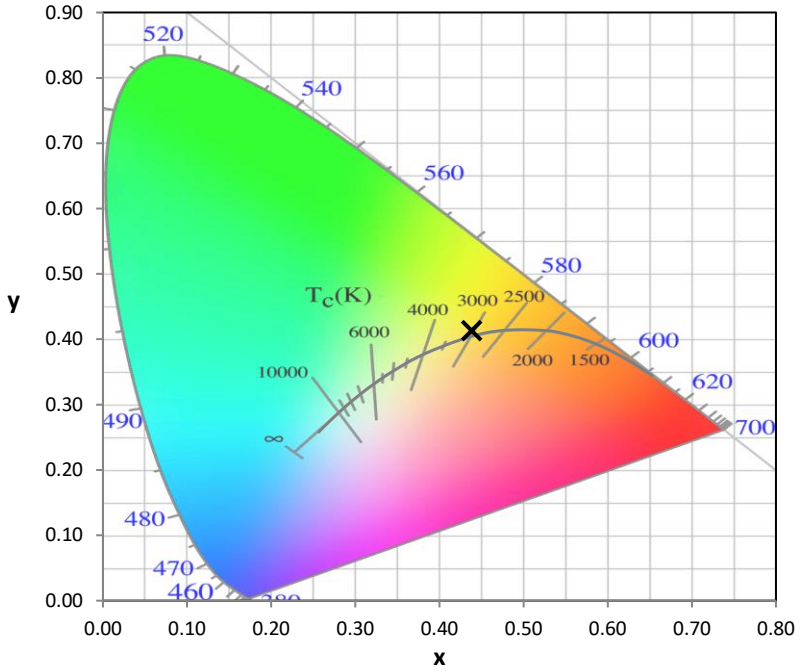
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

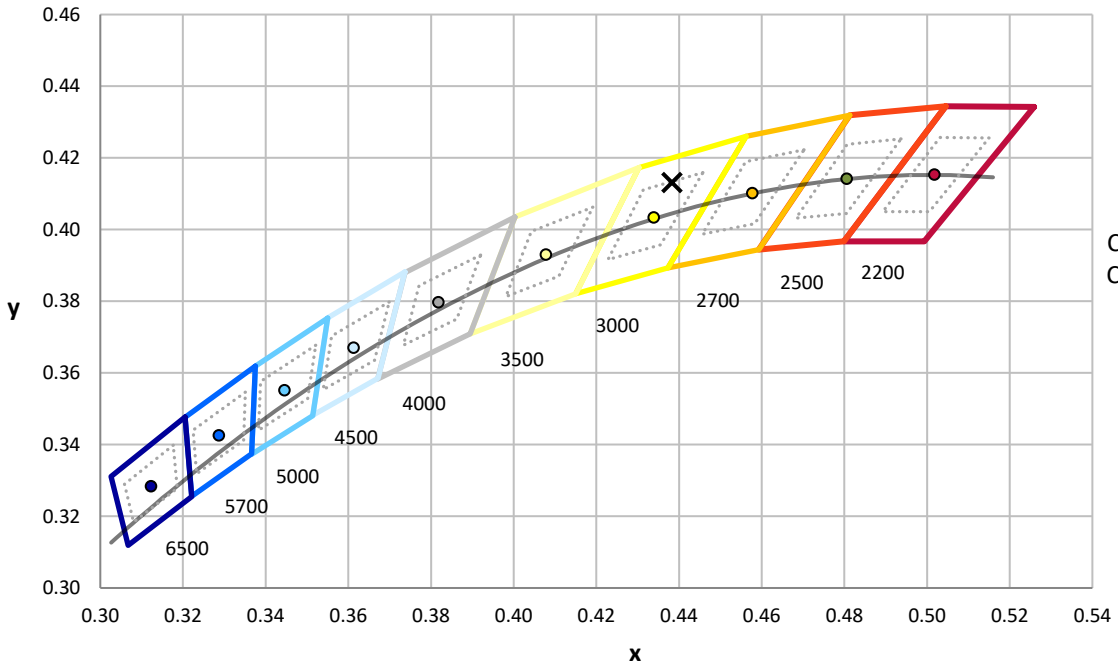
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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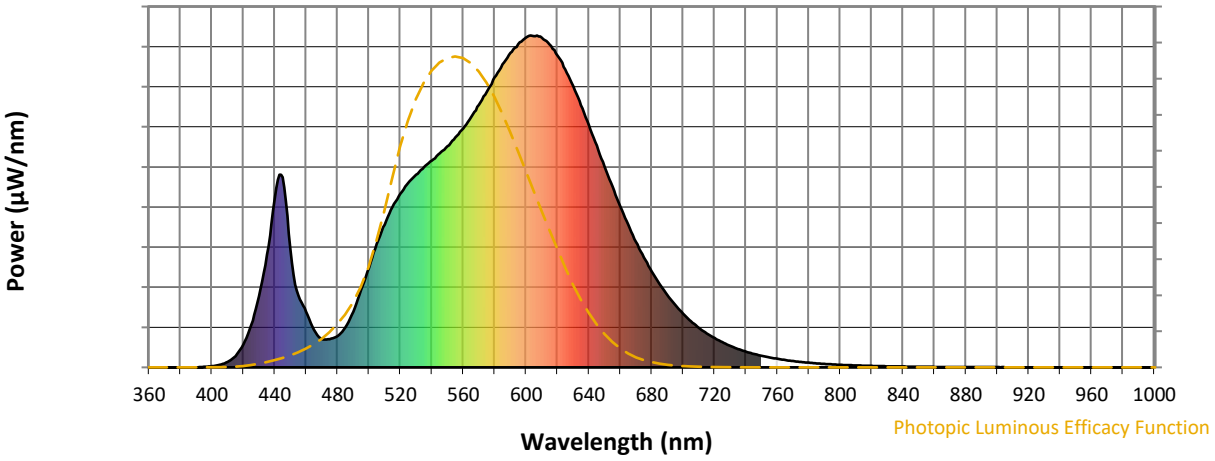
Photopic Flux vs. Wavelength



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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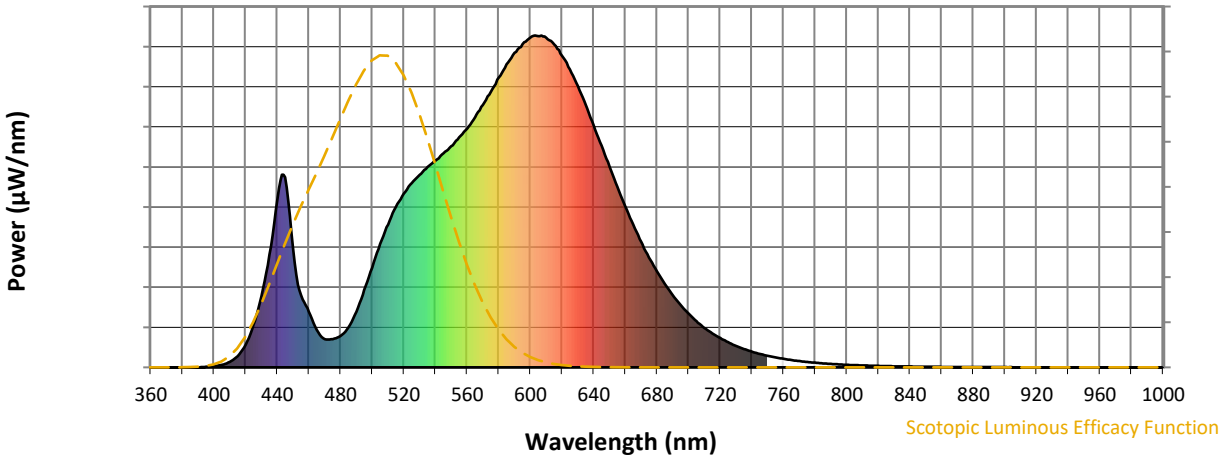
Scotopic Flux vs. Wavelength



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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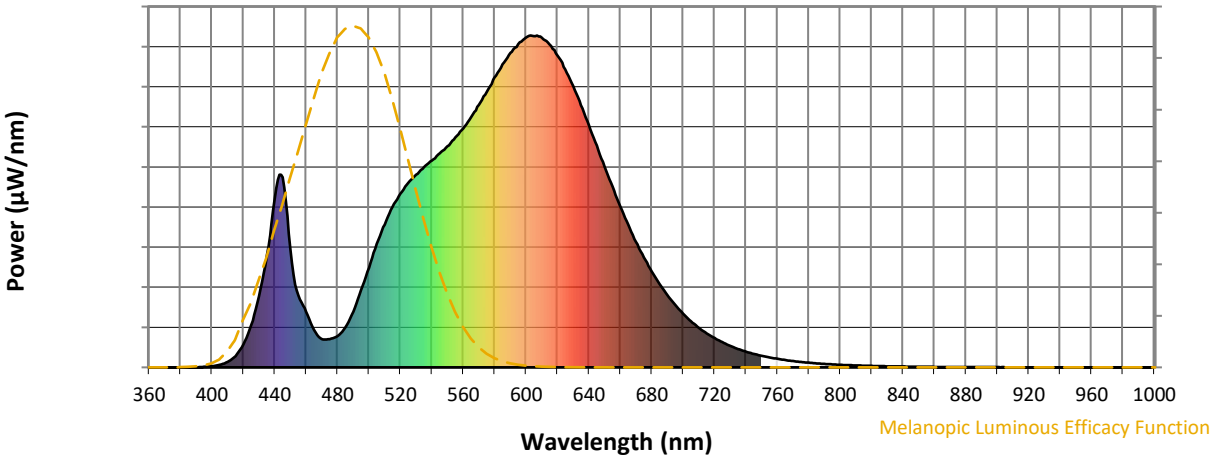
Melanopic Flux vs. Wavelength



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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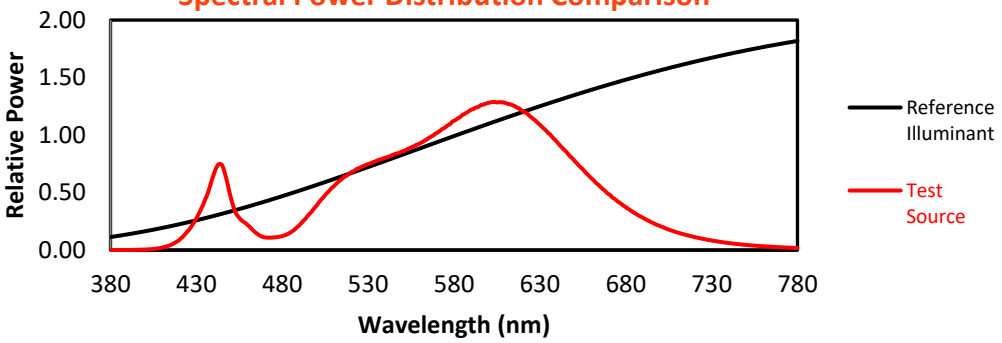
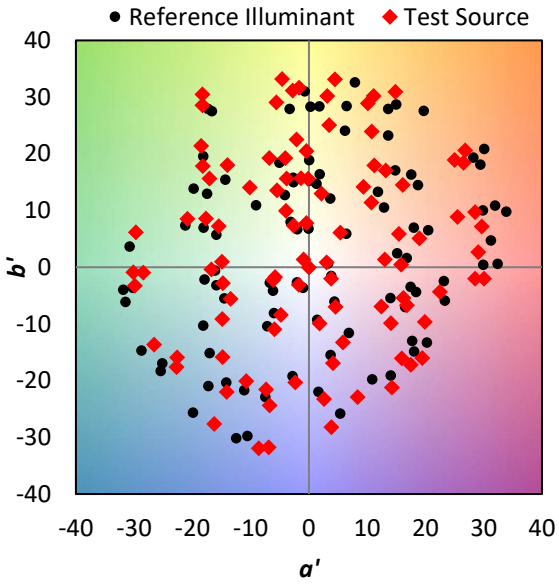
Summary

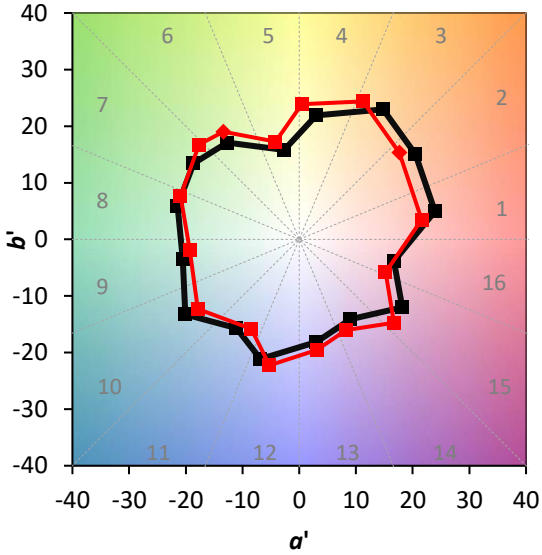
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

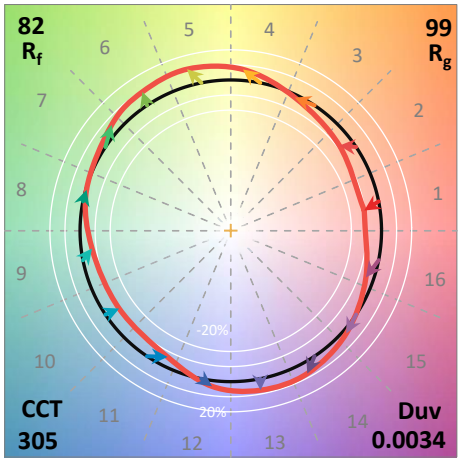
Spectral Power Distribution Comparison

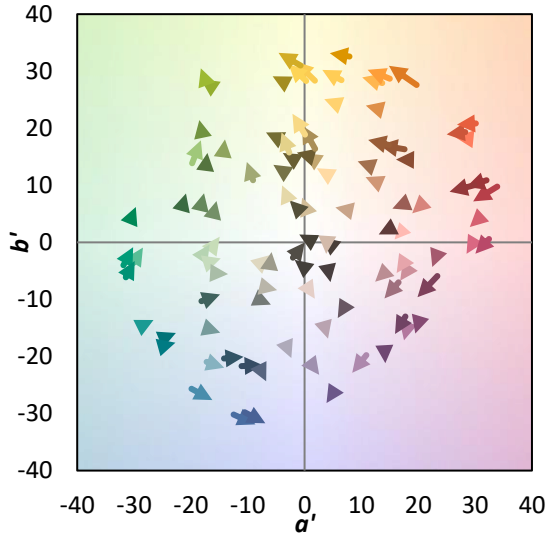


Color Vector Graphics









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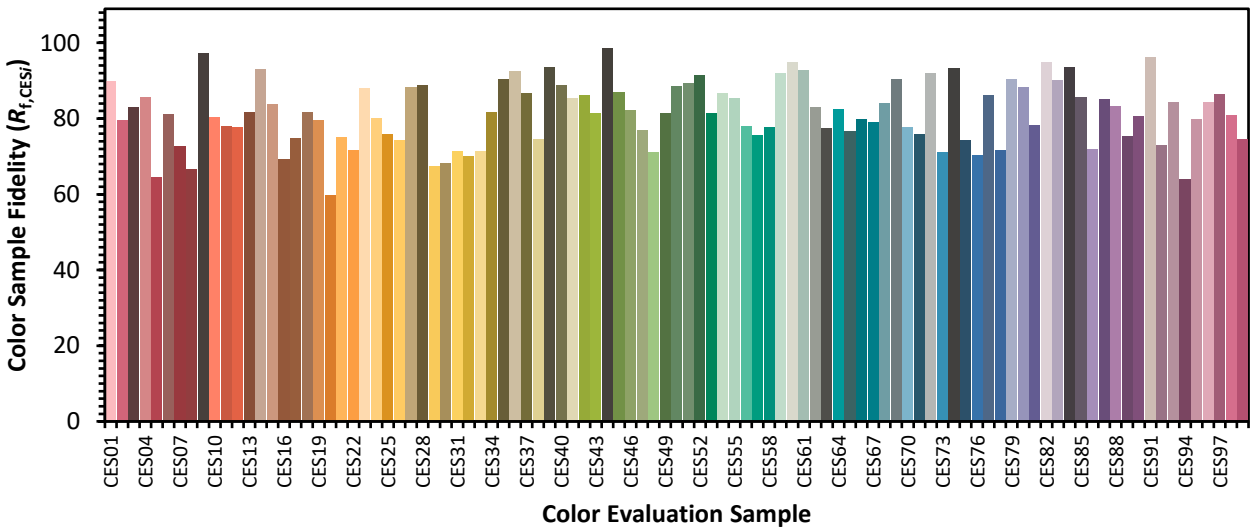
Individual Sample Fidelity Index ($R_{f,i}$)

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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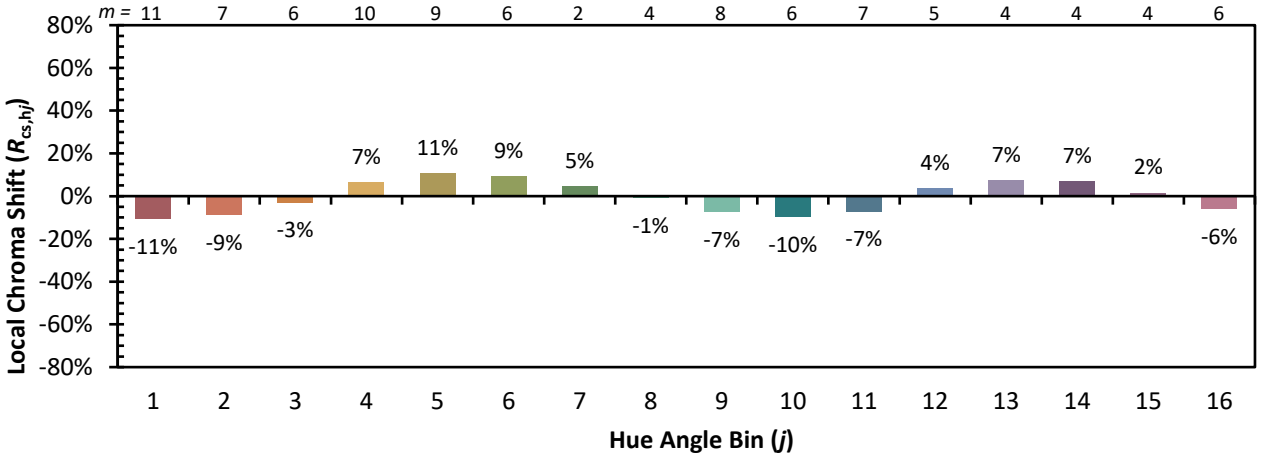
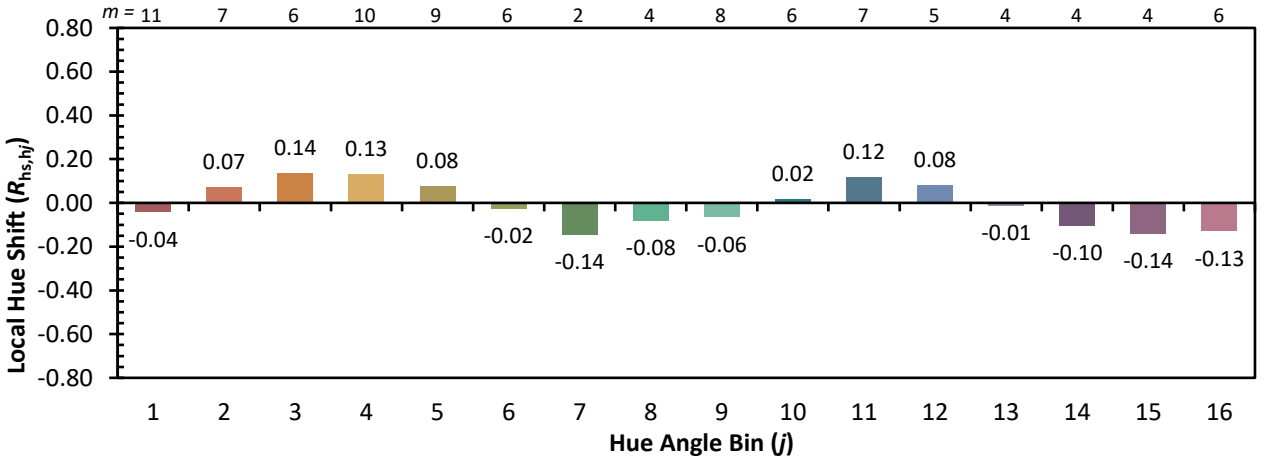
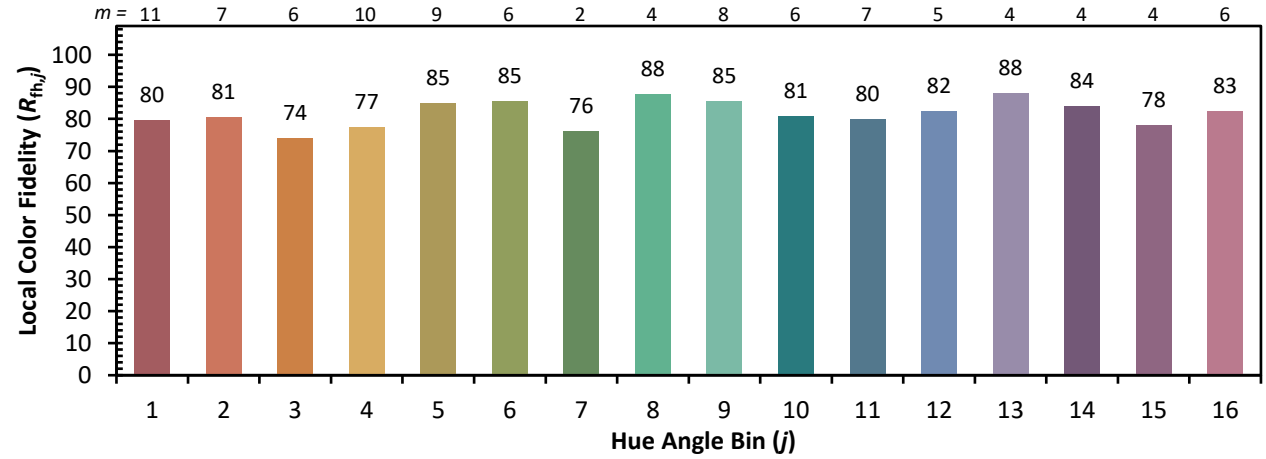
Color Rendition by Hue-Angle Bin







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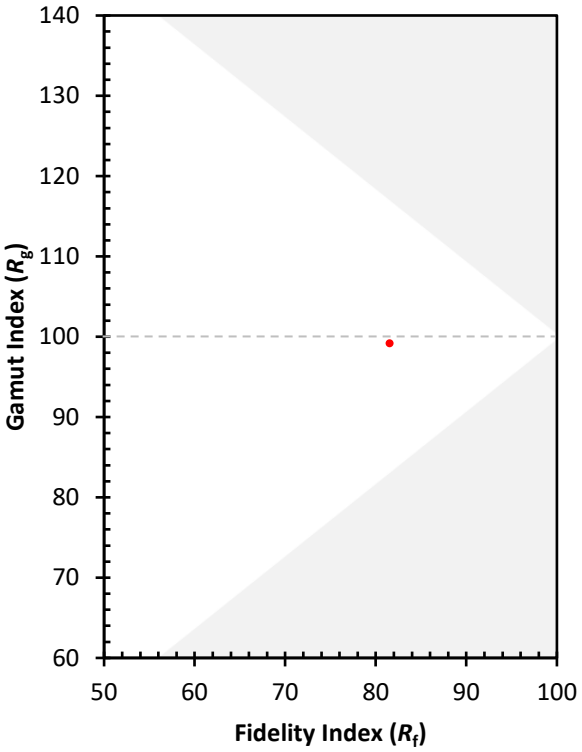
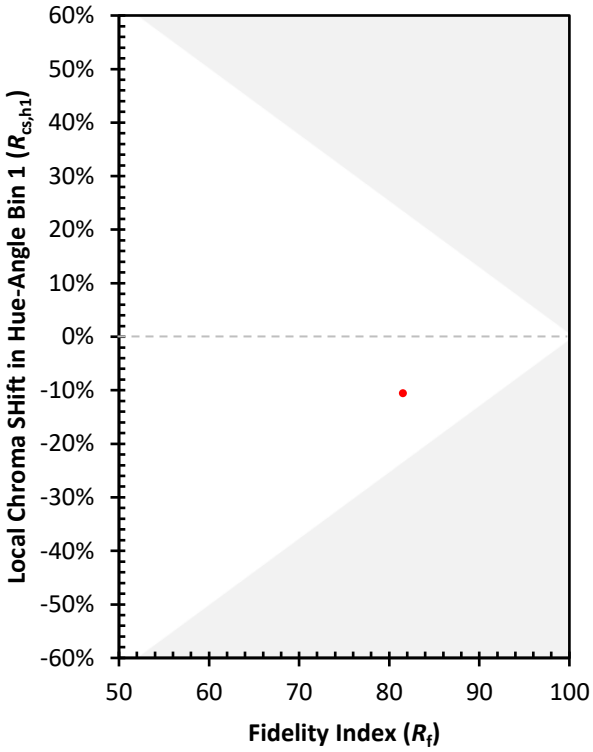
Measure Comparisons





(END OF REPORT)