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: P324953

Luminaire Tested: **GLEON-SA9A-830-U-AFL-HSS**

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:	P324953
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
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-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27102 lumens
Efficiency:	N/A
Efficacy:	93.5 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

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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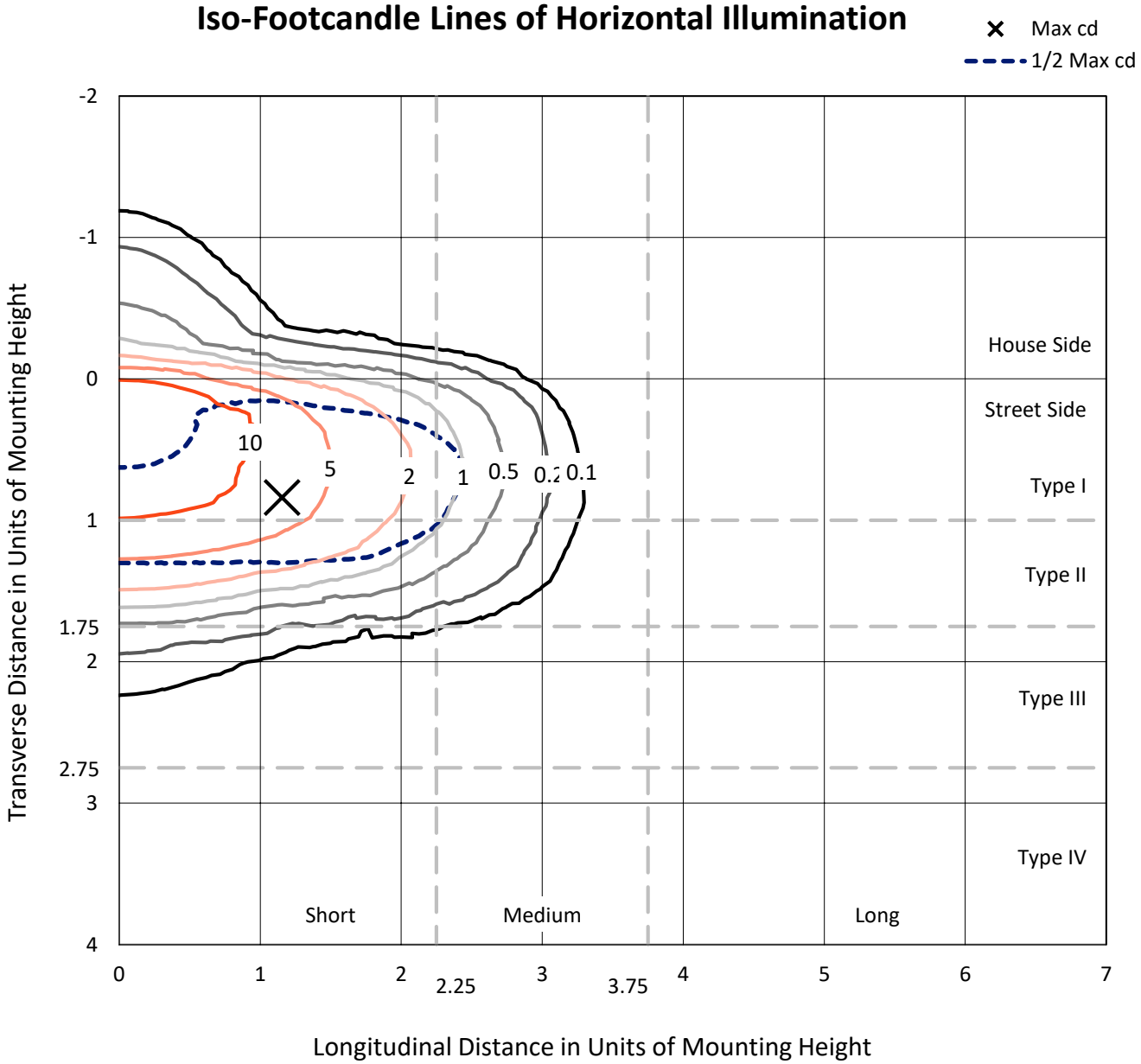
REPORT NUMBER: P324953
CATALOG NUMBER: GLEON-SA9A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
Type II - Short - N/A

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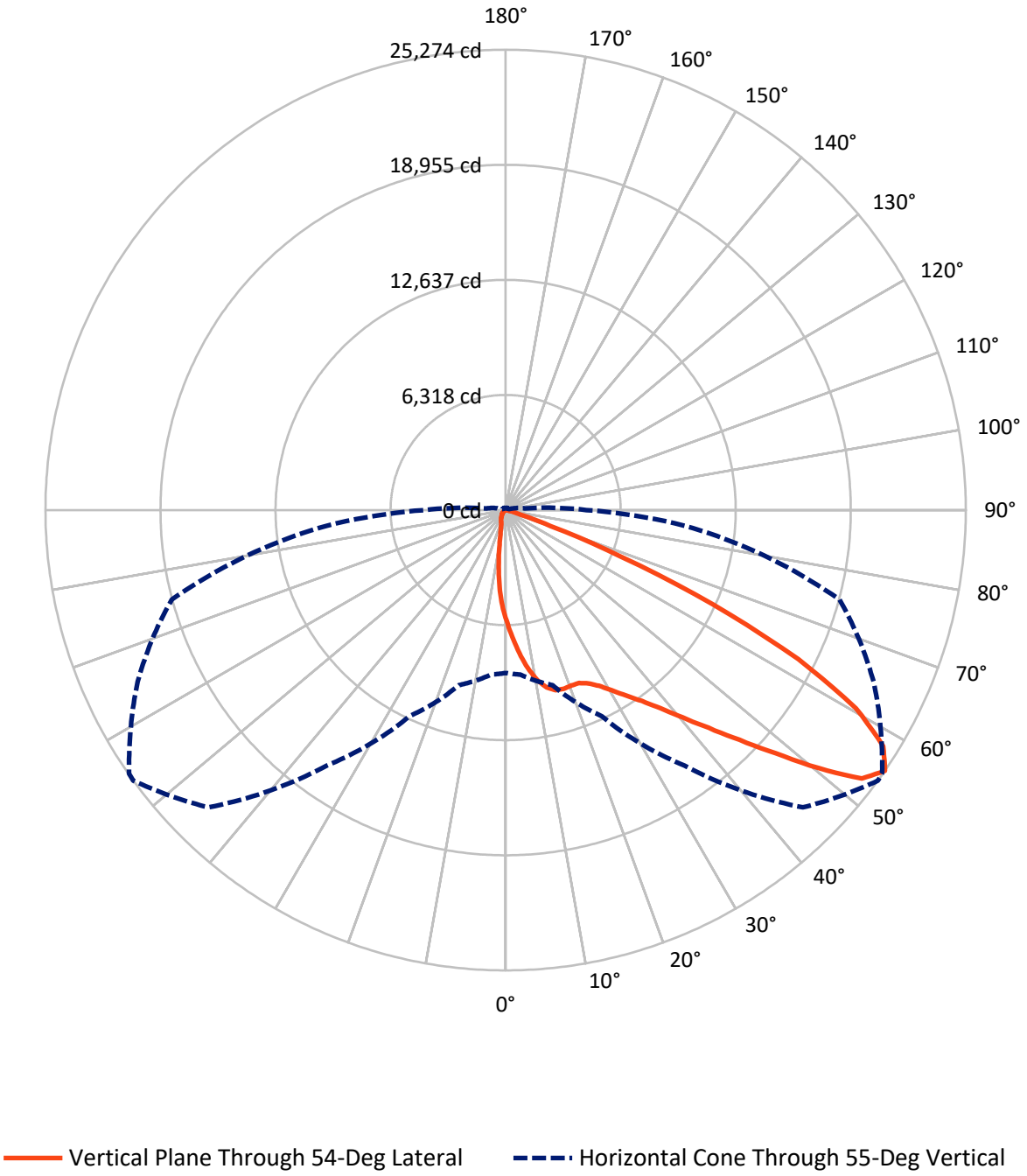
Luminous Intensity Polar Plot



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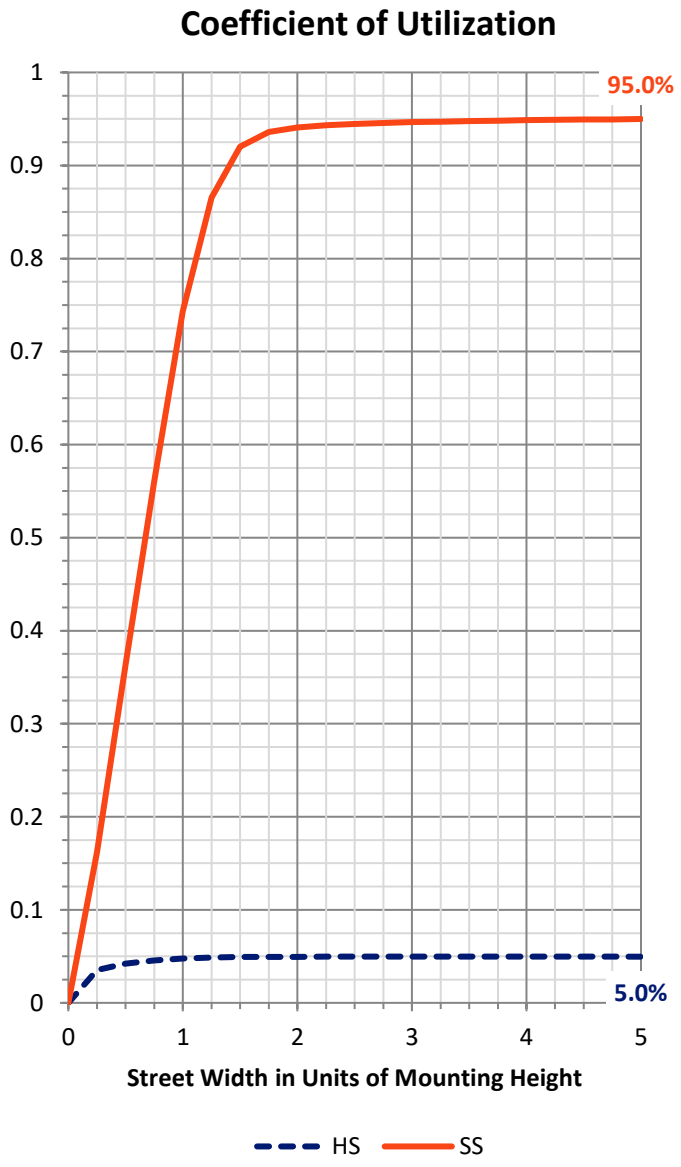
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1352.2	0.0	1352.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25749.8	0.0	25749.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	27102.0	0.0	27102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.0	2.1
10°-20°	1533.0	5.7
20°-30°	2617.3	9.7
30°-40°	4200.3	15.5
40°-50°	6712.0	24.8
50°-60°	7192.1	26.5
60°-70°	3692.6	13.6
70°-80°	559.4	2.1
80°-90°	36.4	0.1
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°	27102.0	100.0
0°-180°	27102.0	100.0



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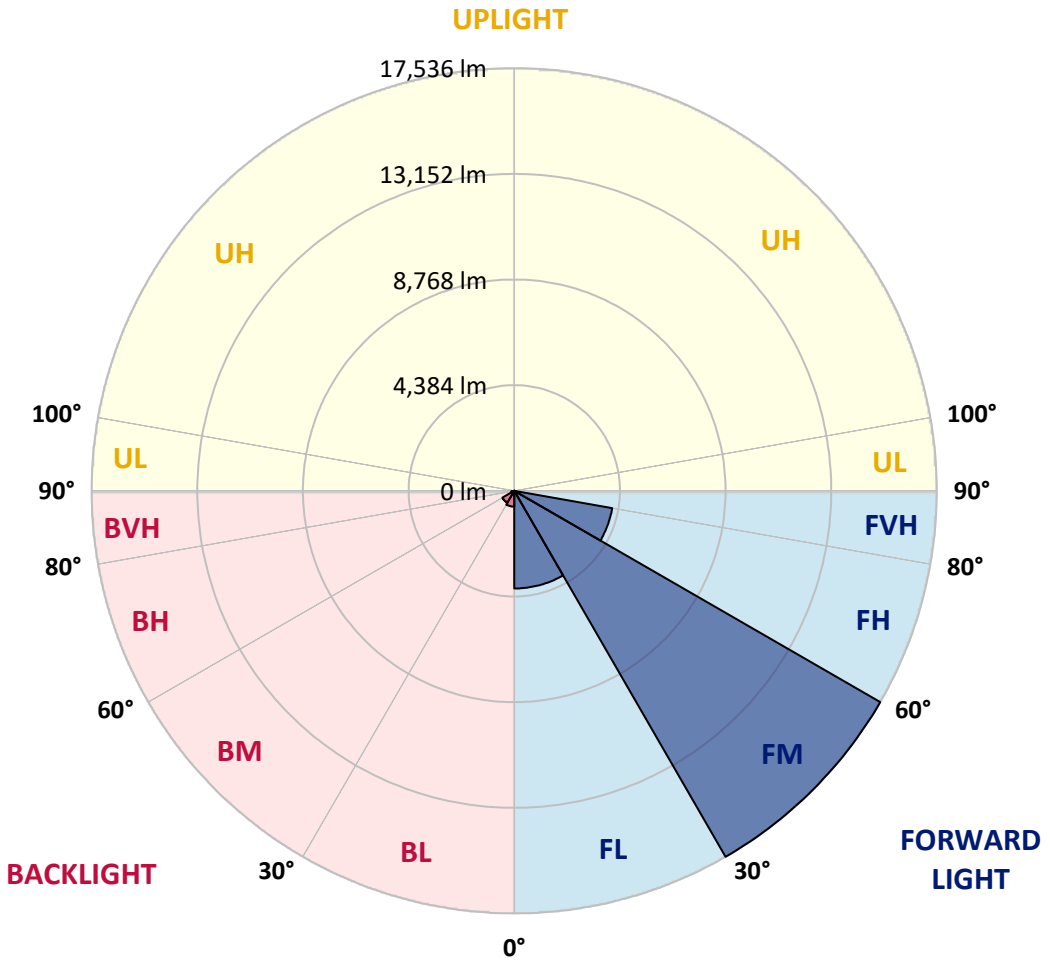
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4051.3	14.9			
FM	(30°-60°)	17536.2	64.7			
FH	(60°-80°)	4127.4	15.2			G2/5000
FVH	(80°-90°)	35.0	0.1			G1/100
BL	(0°-30°)	657.9	2.4	B2/1000		
BM	(30°-60°)	568.2	2.1	B1/1000		
BH	(60°-80°)	124.6	0.5	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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REPORT NUMBER: P324953
CATALOG NUMBER: GLEON-SA9A-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8
2.5°	7617.0	7503.5	7507.0	7455.5	7267.1	7119.6	6966.3	6930.0	6691.2	6440.8	6199.7
5°	8933.8	8850.7	8830.8	8731.3	8469.1	8191.7	7894.4	7825.4	7358.4	6845.7	6341.3
7.5°	9610.3	9611.4	9595.0	9558.8	9394.9	9125.7	8762.9	8690.3	8054.8	7285.8	6488.8
10°	9413.6	9458.1	9549.4	9669.9	9795.2	9761.2	9488.5	9423.0	8732.4	7751.6	6652.6
12.5°	8954.8	8960.7	9062.5	9260.3	9620.8	9990.6	9995.3	9973.1	9379.7	8238.5	6832.9
15°	8726.6	8748.8	8786.3	8913.9	9255.6	9847.9	10271.5	10303.1	9973.1	8755.9	7024.8
17.5°	8876.4	8908.0	8876.4	8891.6	9089.4	9622.0	10319.5	10400.3	10491.6	9267.3	7206.2
20°	9282.5	9311.8	9255.6	9193.6	9232.2	9556.4	10285.6	10394.4	10897.7	9721.4	7358.4
22.5°	9830.3	9842.0	9756.6	9654.7	9626.6	9778.8	10313.7	10426.0	11223.1	10132.3	7454.4
25°	10433.1	10443.6	10337.1	10220.0	10153.3	10215.4	10544.2	10628.5	11509.8	10524.4	7509.4
27.5°	11089.7	11099.0	10965.6	10821.6	10744.4	10746.7	10924.6	11014.8	11815.3	10971.4	7553.8
30°	11783.7	11779.0	11656.1	11456.0	11357.7	11355.3	11472.4	11563.7	12257.7	11545.0	7614.7
32.5°	12563.2	12553.8	12379.5	12131.3	12020.1	12036.5	12140.7	12193.4	12806.7	12155.9	7723.6
35°	13589.7	13562.7	13299.4	12991.6	12786.8	12780.9	12868.7	12910.8	13506.6	12895.6	7905.0
37.5°	14921.6	14897.0	14540.0	14092.9	13805.0	13697.3	13801.5	13855.3	14504.9	13844.8	8196.4
40°	16234.8	16210.2	15998.4	15588.7	15145.1	14886.5	14968.4	15025.8	15751.4	14996.5	8563.9
42.5°	17140.7	17161.8	17235.5	17269.4	16853.9	16310.9	16348.3	16408.0	17061.1	16227.8	8984.1
45°	17379.5	17425.1	17841.8	18659.9	18815.6	18391.9	17999.8	18032.5	18391.9	17459.0	9404.3
47.5°	16662.0	16746.3	17550.3	19071.9	20389.8	20689.4	19947.3	19904.0	19668.8	18455.1	9702.7
50°	15031.6	15108.9	16150.5	18401.2	20867.3	22882.7	22281.1	22153.6	20788.9	19050.8	9808.1
52.5°	12672.1	12765.7	13611.9	16289.8	19967.2	23861.2	24490.9	24384.4	21610.5	19097.6	9825.6
55°	8949.0	9062.5	9957.9	12484.8	17114.9	23082.9	25273.9	25242.3	22292.9	18973.6	9863.1
57.5°	5029.3	5111.2	6076.8	8003.3	12535.1	20105.3	24455.8	24665.3	22704.8	18758.2	9919.2
60°	2233.1	2255.4	2755.2	3984.1	7338.5	15365.2	22113.8	22467.2	22351.4	18470.3	10014.1
62.5°	1238.3	1219.6	1219.6	1656.1	3189.4	9511.9	18032.5	18616.6	20842.7	18129.7	10018.7
65°	970.3	952.7	902.4	909.4	1214.9	4221.7	12487.1	13525.3	17977.5	17131.3	9681.7
67.5°	822.8	807.6	757.3	737.4	754.9	1392.8	6861.0	7938.9	13641.2	14536.5	8386.0
70°	695.2	684.7	658.9	634.4	589.9	688.2	2625.2	3357.9	8405.9	9669.9	5724.5
72.5°	559.5	554.8	564.1	543.1	489.2	458.8	897.7	1087.3	3775.8	4315.3	2358.4
75°	482.2	479.9	484.6	463.5	402.6	319.5	456.5	498.6	1065.1	1055.7	477.5
77.5°	313.7	317.2	401.5	392.1	346.4	213.0	236.4	255.1	323.0	242.3	145.1
80°	200.1	197.8	203.7	325.4	311.3	162.7	118.2	124.1	155.7	119.4	70.2
82.5°	121.7	119.4	133.4	152.2	156.8	113.5	72.6	73.7	97.1	77.2	37.5
85°	10.5	14.0	80.8	74.9	53.8	35.1	35.1	37.5	51.5	45.6	21.1
87.5°	0.0	0.0	14.0	21.1	11.7	12.9	12.9	14.0	19.9	19.9	10.5
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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REPORT NUMBER: P324953
CATALOG NUMBER: GLEON-SA9A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8
2.5°	6074.4	5952.7	5706.9	5470.5	5270.4	5077.3	4857.2	4639.5	4537.7	4496.7	4454.6
5°	6085.0	5834.5	5327.7	4817.4	4288.4	3812.0	3405.9	2989.2	2780.9	2689.6	2647.5
7.5°	6099.0	5717.5	4898.2	4041.4	3189.4	2543.3	1979.2	1616.3	1459.5	1434.9	1374.1
10°	6101.4	5575.8	4399.6	3184.7	2138.3	1533.2	1179.8	992.5	923.5	911.8	891.9
12.5°	6106.0	5408.5	3846.0	2358.4	1425.6	1025.3	853.2	791.2	772.5	771.3	771.3
15°	6120.1	5232.9	3271.3	1699.4	1024.1	812.3	749.1	724.5	717.5	721.0	719.8
17.5°	6120.1	5025.8	2707.2	1266.4	827.5	730.3	695.2	678.8	676.5	680.0	681.2
20°	6075.6	4774.1	2189.8	985.5	733.8	677.7	646.1	630.9	625.0	627.3	628.5
22.5°	5969.1	4465.1	1768.5	815.8	671.8	629.7	595.7	572.3	563.0	564.1	564.1
25°	5802.9	4098.8	1383.4	705.8	621.5	578.2	538.4	511.5	505.6	504.4	506.8
27.5°	5589.9	3693.8	1101.4	621.5	561.8	520.8	481.0	458.8	454.1	455.3	456.5
30°	5380.4	3273.6	868.4	550.1	495.1	456.5	426.0	415.5	415.5	419.0	420.2
32.5°	5188.4	2869.9	687.0	488.1	435.4	400.3	382.7	381.6	387.4	389.7	390.9
35°	5023.4	2496.5	568.8	440.1	388.6	358.1	352.3	357.0	364.0	368.7	369.9
37.5°	4906.4	2162.9	497.4	400.3	352.3	327.7	326.5	335.9	345.3	355.8	358.1
40°	4857.2	1880.9	448.3	365.2	323.0	304.3	300.8	313.7	331.2	346.4	348.8
42.5°	4816.2	1650.3	406.1	331.2	299.6	272.7	271.5	287.9	309.0	324.2	327.7
45°	4781.1	1465.4	367.5	294.9	269.2	234.1	237.6	258.7	275.0	291.4	294.9
47.5°	4708.6	1313.2	325.4	256.3	222.4	200.1	207.2	225.9	238.8	263.3	266.9
50°	4578.7	1189.1	282.1	209.5	181.4	173.2	183.8	196.6	213.0	234.1	236.4
52.5°	4490.9	1095.5	244.6	175.6	149.8	152.2	162.7	167.4	176.7	184.9	182.6
55°	*4440.5*	*1044.0*	*214.2*	*152.2*	*127.6*	*134.6*	*136.9*	*131.1*	*126.4*	*118.2*	*114.7*
57.5°	4434.7	997.2	190.8	132.3	112.4	115.9	107.7	87.8	71.4	62.0	59.7
60°	4425.3	939.8	172.1	111.2	99.5	94.8	77.2	48.0	33.9	31.6	31.6
62.5°	4323.5	850.9	158.0	93.6	84.3	71.4	44.5	22.2	18.7	19.9	19.9
65°	3999.3	726.8	144.0	76.1	66.7	51.5	22.2	12.9	7.0	8.2	8.2
67.5°	3400.0	579.4	128.7	58.5	50.3	32.8	12.9	5.9	0.0	0.0	0.0
70°	2276.5	359.3	108.8	41.0	32.8	19.9	9.4	1.2	0.0	0.0	0.0
72.5°	873.1	194.3	87.8	24.6	21.1	14.0	5.9	0.0	0.0	0.0	0.0
75°	196.6	127.6	60.9	17.6	15.2	9.4	2.3	0.0	0.0	0.0	0.0
77.5°	74.9	92.5	35.1	11.7	10.5	5.9	0.0	0.0	0.0	0.0	0.0
80°	36.3	55.0	16.4	7.0	5.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	21.1	7.0	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	10.5	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

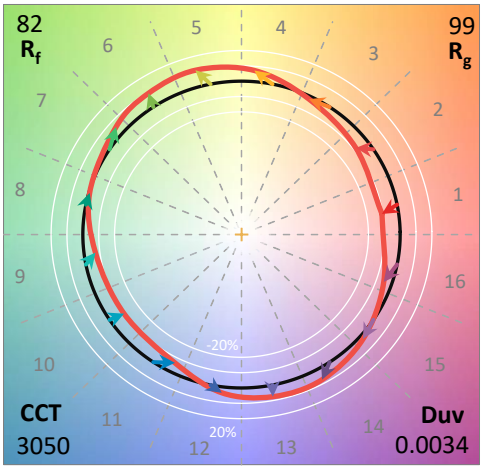
Test Information

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

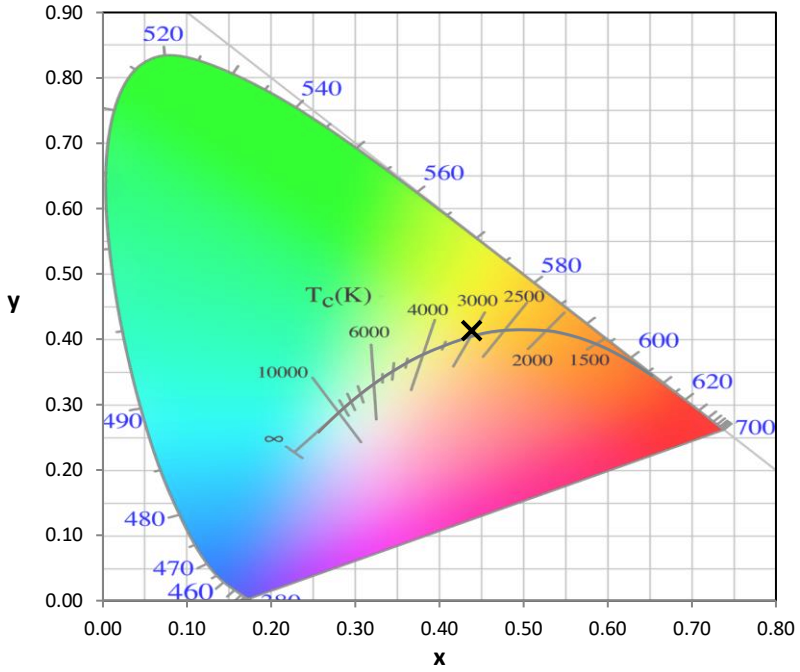
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

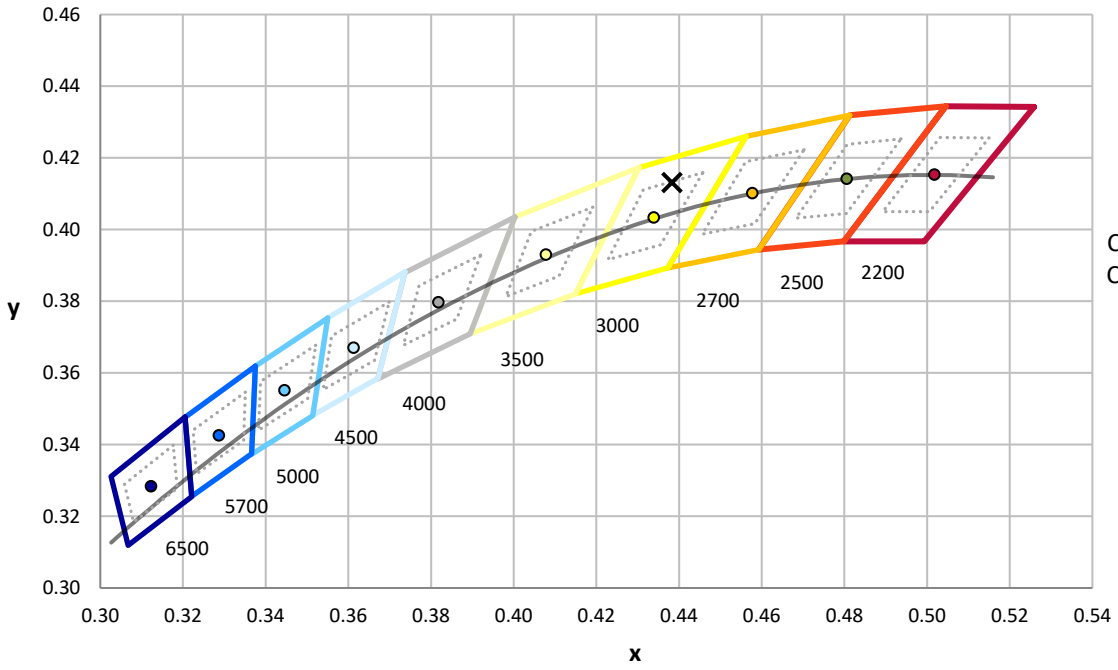
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

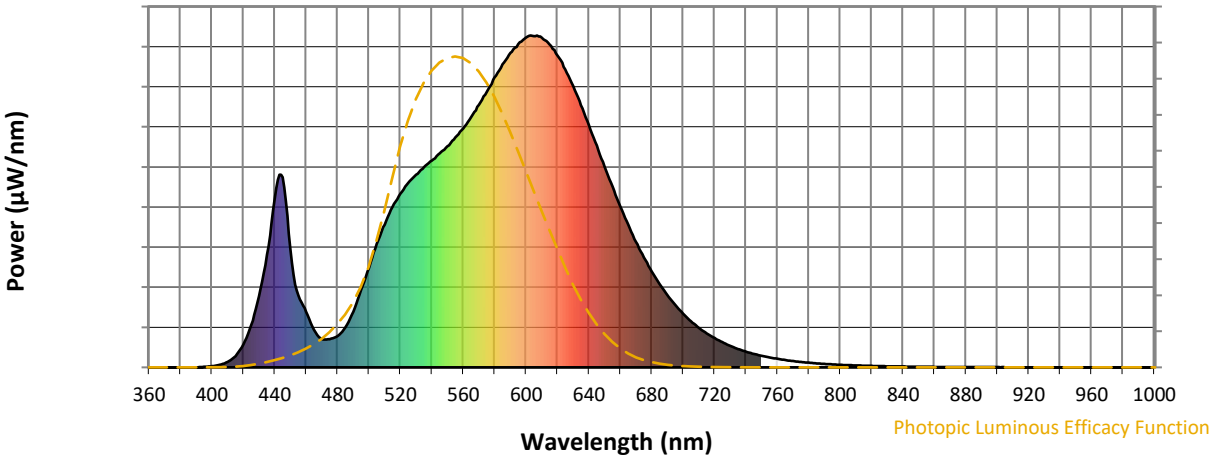


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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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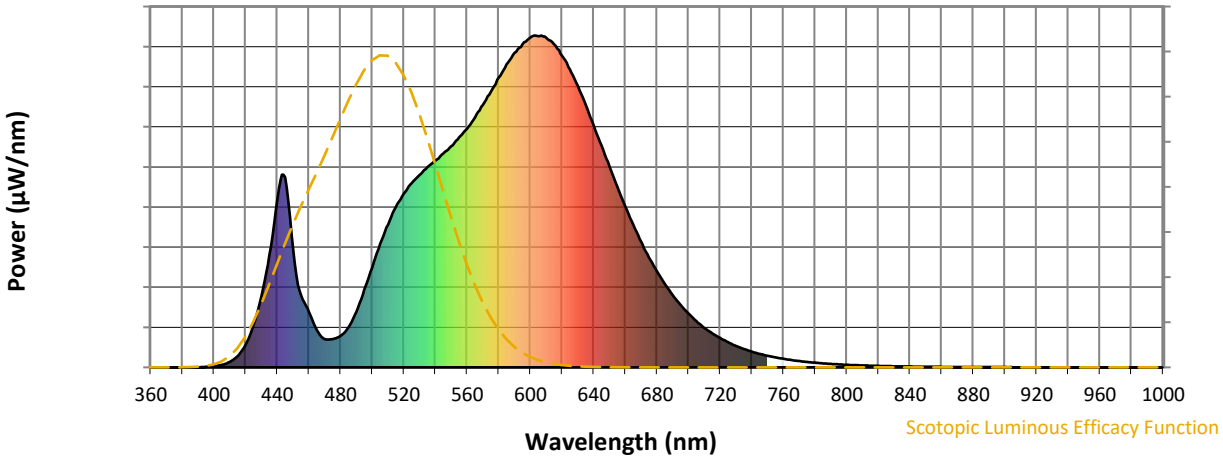
Scotopic Flux vs. Wavelength



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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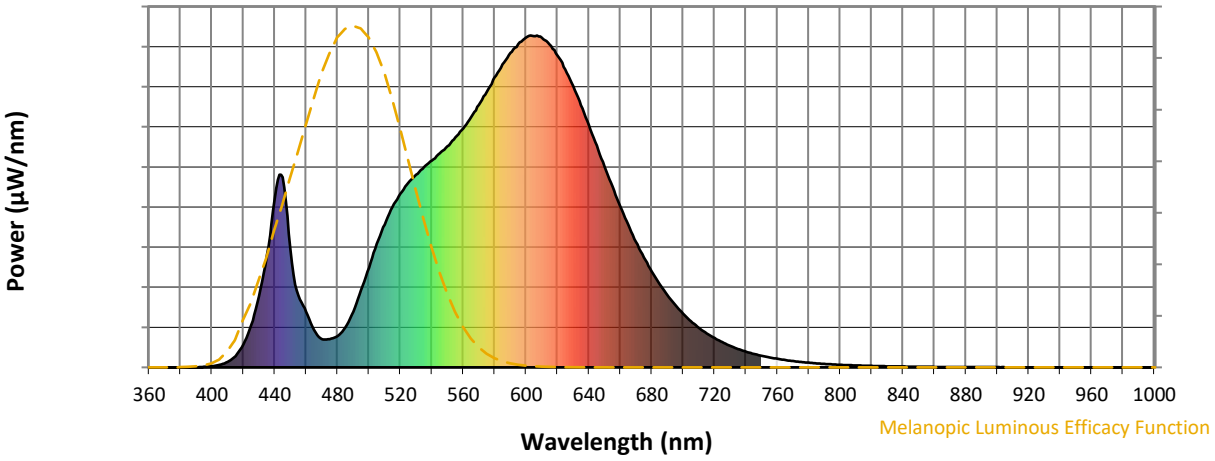
Melanopic Flux vs. Wavelength



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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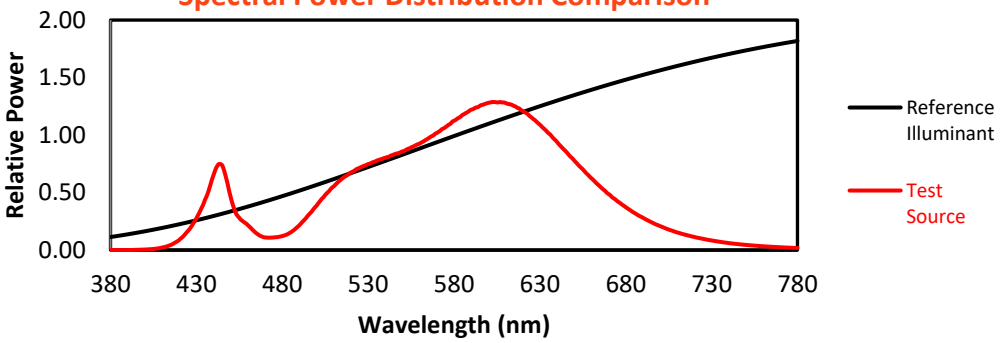
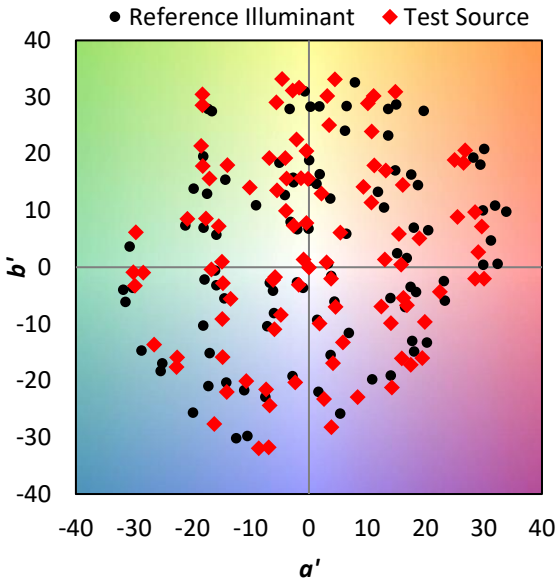
Summary

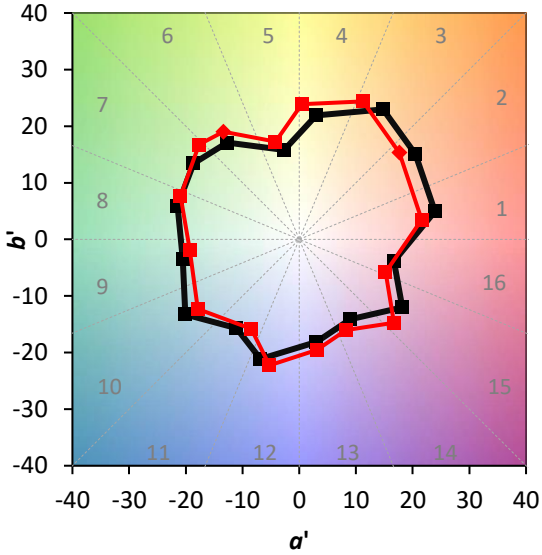
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

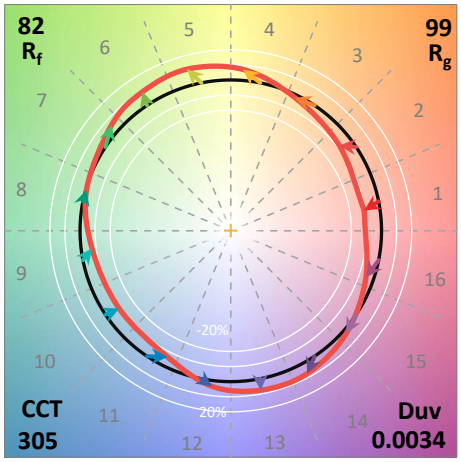
Spectral Power Distribution Comparison

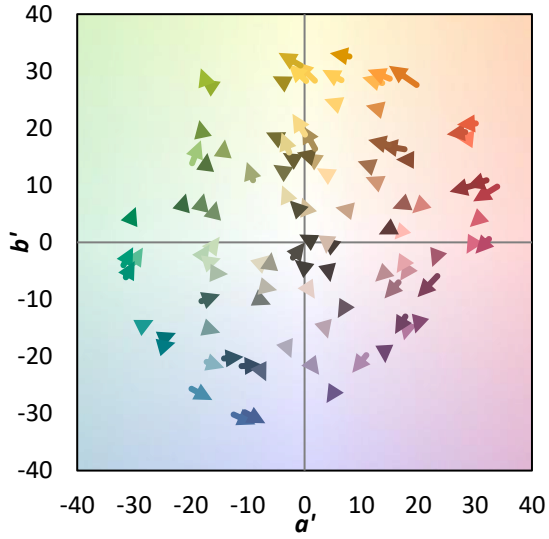


Color Vector Graphics









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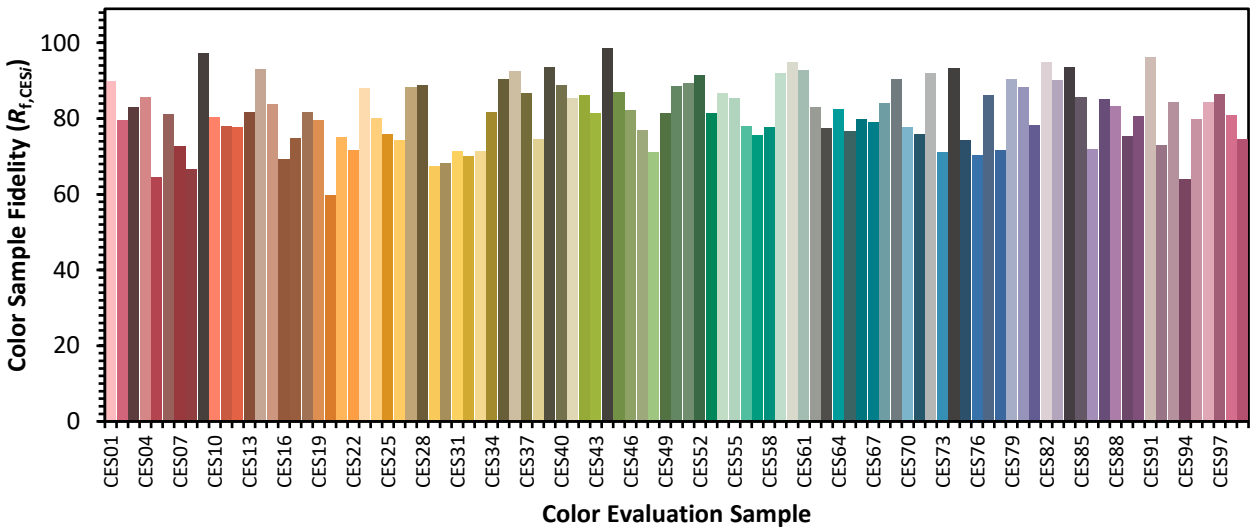
Individual Sample Fidelity Index ($R_{f,i}$)

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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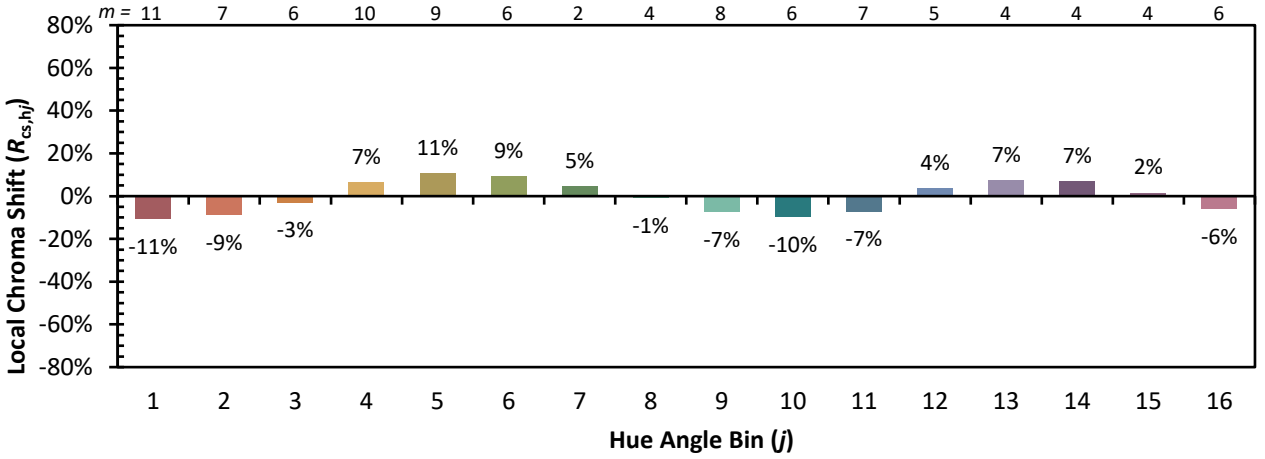
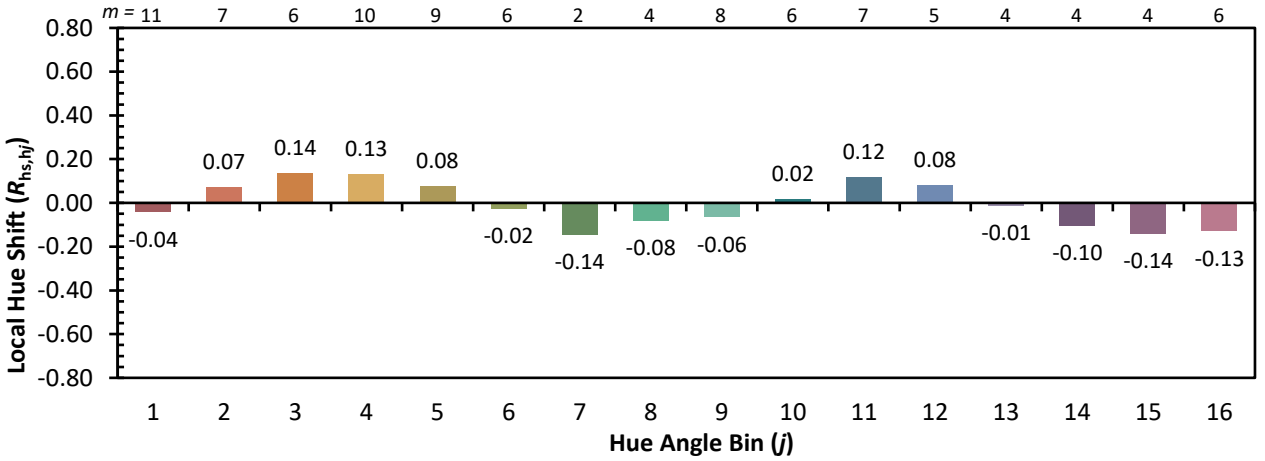
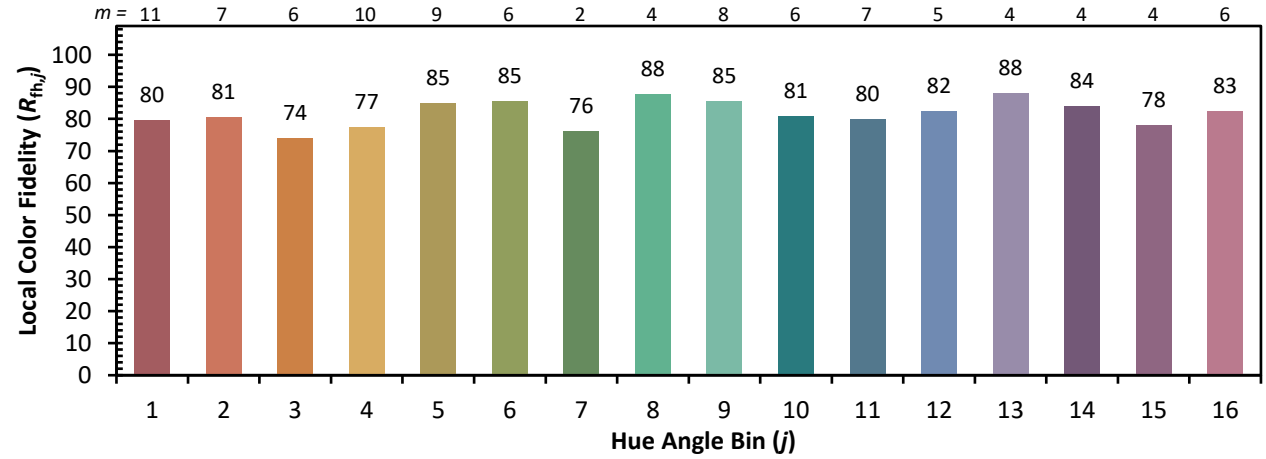
Color Rendition by Hue-Angle Bin







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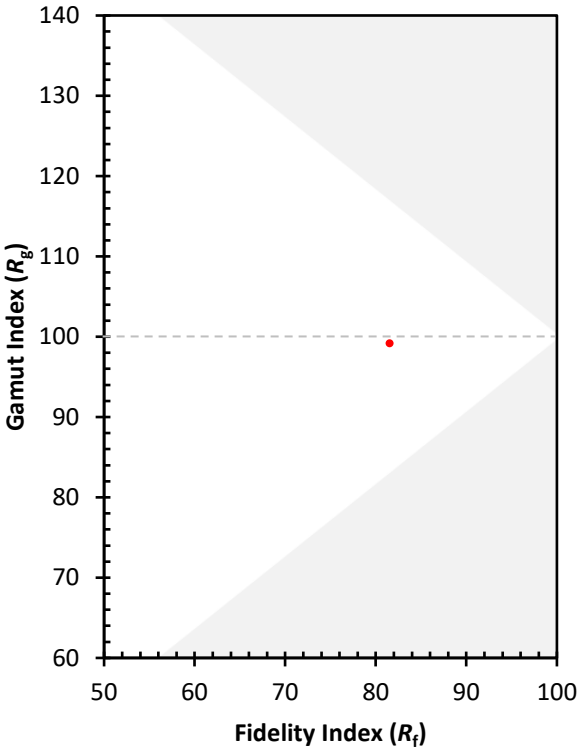
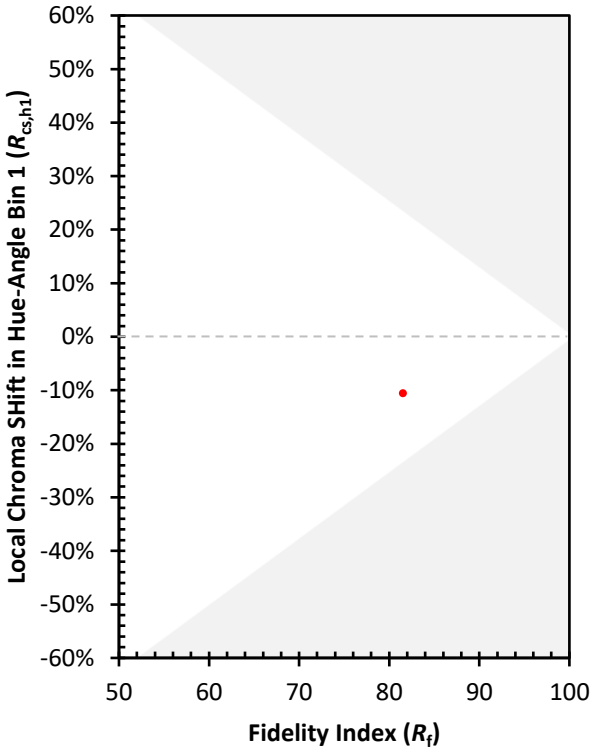
Measure Comparisons





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