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: P321433

Luminaire Tested: **GLEON-SA9A-830-U-T2R-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:	P321433
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
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-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26723 lumens
Efficiency:	N/A
Efficacy:	92.1 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G3

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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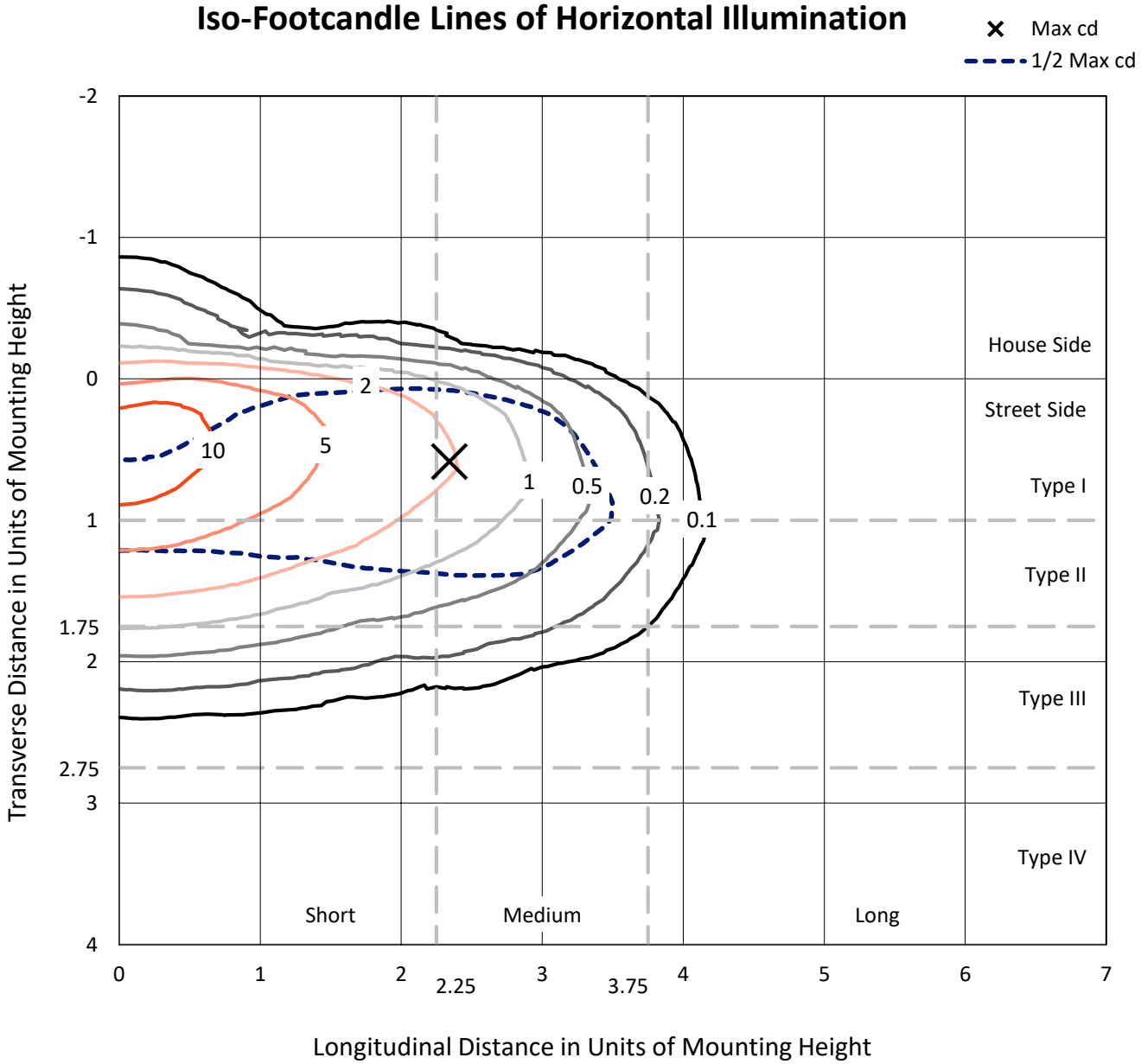
Scaled Data Report

REPORT NUMBER: P321433
CATALOG NUMBER: GLEON-SA9A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Medium - N/A

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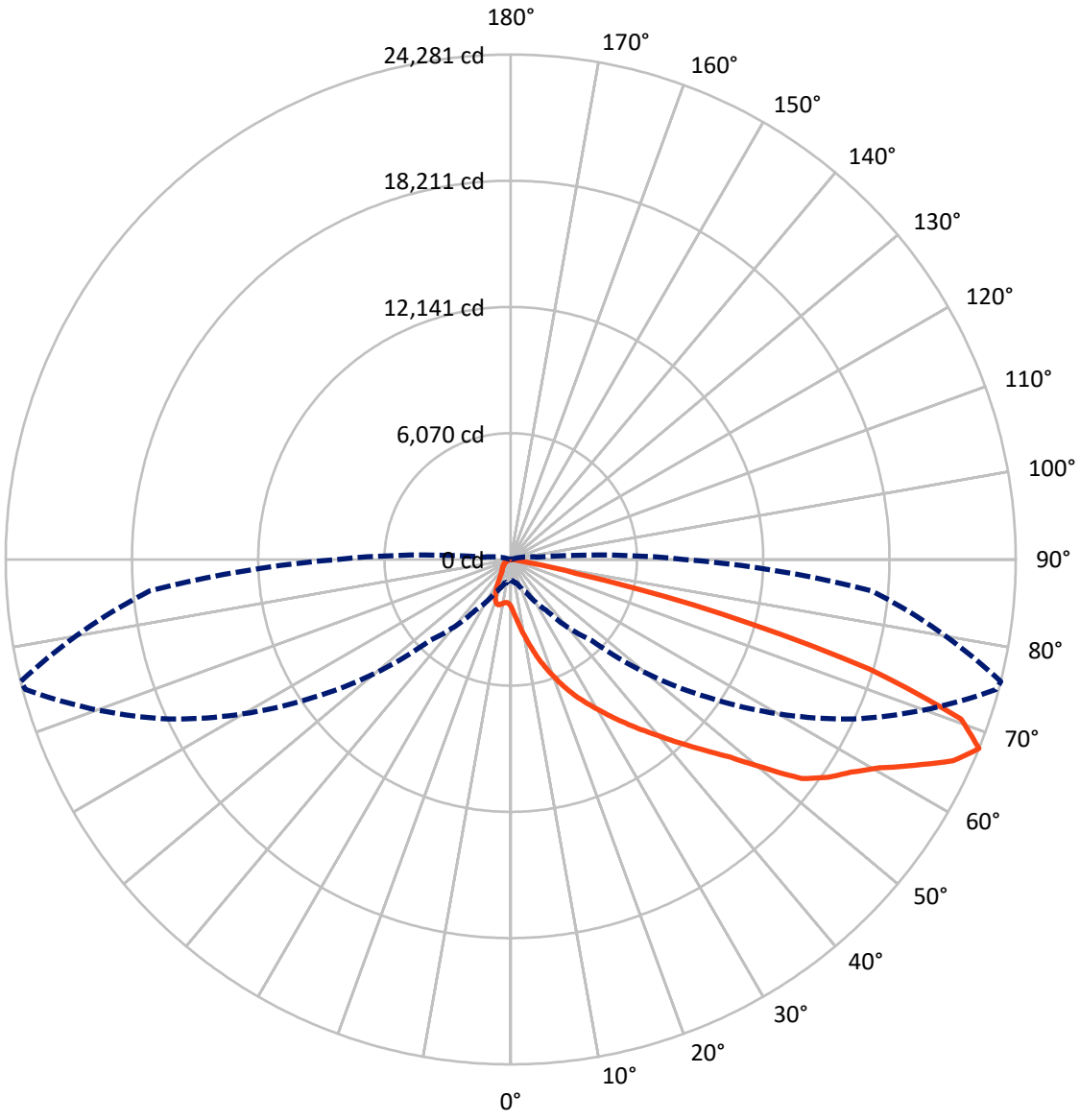
Luminous Intensity Polar Plot



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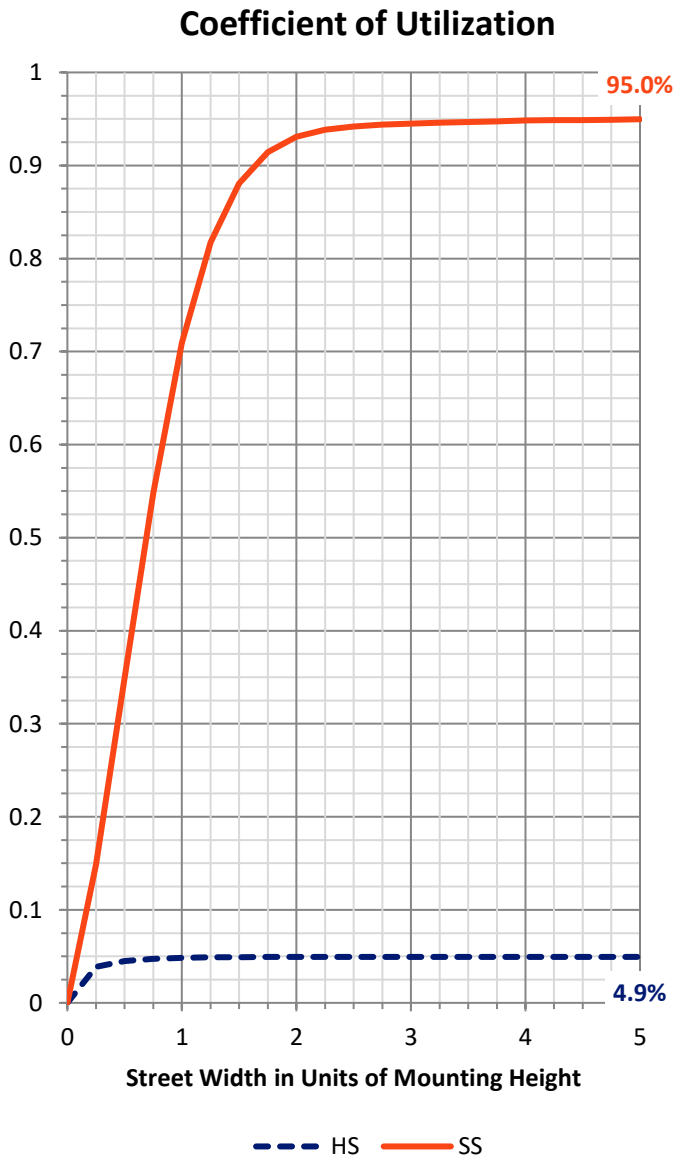
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1327.0	0.0	1327.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25396.0	0.0	25396.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	26723.0	0.0	26723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	1.1
10°-20°	1117.4	4.2
20°-30°	2273.6	8.5
30°-40°	3946.2	14.8
40°-50°	5575.5	20.9
50°-60°	6322.9	23.7
60°-70°	5244.2	19.6
70°-80°	1899.6	7.1
80°-90°	61.6	0.2
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°	26723.0	100.0
0°-180°	26723.0	100.0



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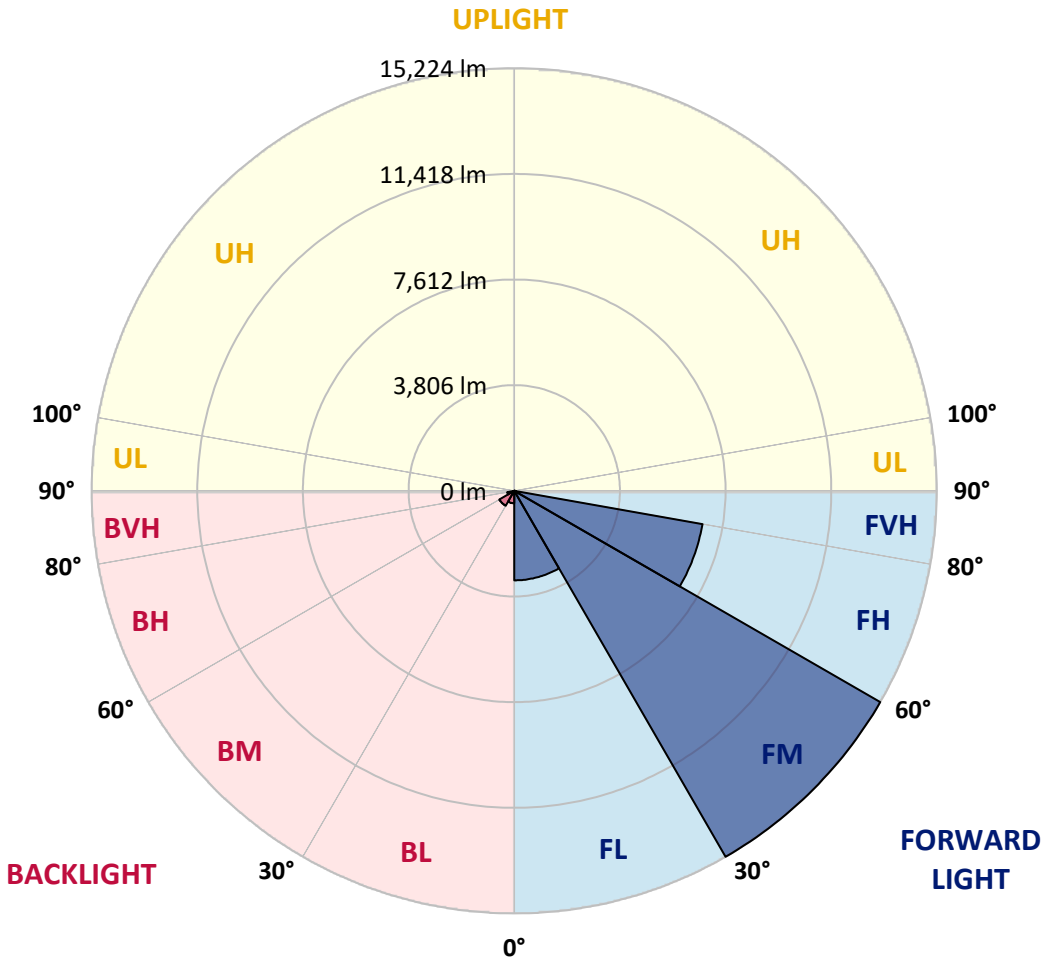
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3225.4	12.1			
FM	(30°-60°)	15223.6	57.0			
FH	(60°-80°)	6887.4	25.8			G3/7500
FVH	(80°-90°)	59.7	0.2			G1/100
BL	(0°-30°)	447.5	1.7	B1/500		
BM	(30°-60°)	621.1	2.3	B1/1000		
BH	(60°-80°)	256.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type II Medium



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REPORT NUMBER: P321433
CATALOG NUMBER: GLEON-SA9A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	*2266.9*	2266.9
2.5°	3383.9	3307.8	3325.4	3276.2	3187.2	3004.6	2848.8	2701.3	2529.2	*2523.3*	2381.6
5°	4563.0	4498.6	4490.4	4390.9	4229.3	3919.0	3616.9	3272.7	2888.6	*2860.5*	2559.6
7.5°	5633.3	5581.7	5563.0	5444.7	5143.8	4841.7	4448.3	3942.5	3341.8	*3290.3*	2799.6
10°	6455.2	6430.6	6435.3	6351.0	6093.4	5812.4	5296.0	4650.9	3855.8	*3776.2*	3087.7
12.5°	7078.2	7084.0	7126.2	7074.6	6930.6	6722.2	6170.7	5406.1	4424.9	*4316.0*	3416.7
15°	7536.0	7565.3	7642.5	7706.9	7696.4	7516.1	7010.2	6173.0	5029.1	*4908.5*	3783.2
17.5°	7832.2	7865.0	7977.4	8120.3	8251.4	8209.3	7820.5	6913.1	5640.3	*5500.9*	4175.5
20°	8092.2	8130.8	8251.4	8439.9	8684.6	8737.3	8482.1	7630.8	6250.3	*6080.5*	4580.6
22.5°	8655.4	8654.2	8728.0	8838.0	9071.1	9206.9	9045.3	8297.1	6853.3	*6676.5*	4993.9
25°	9674.1	9635.4	9609.7	9523.0	9574.5	9658.8	9568.7	8920.0	7459.9	*7280.7*	5413.1
27.5°	10884.8	10908.2	10699.8	10466.8	10286.5	10199.8	10052.3	9497.3	8043.0	*7846.3*	5822.9
30°	12162.3	12169.3	11923.4	11626.0	11229.0	10900.0	10644.8	10048.8	8642.5	*8428.2*	6221.1
32.5°	13314.4	13268.8	13025.2	12620.1	12118.9	11748.9	11218.5	10664.7	9277.1	*9069.9*	6663.7
35°	14227.7	14173.9	13877.6	13508.8	12988.9	12616.6	11978.4	11279.4	9944.6	*9742.0*	7107.4
37.5°	14895.2	14831.9	14527.5	14148.1	13699.7	13483.0	12860.1	11948.0	10672.9	*10455.1*	7574.6
40°	15127.0	15072.0	14881.1	14603.6	14243.0	14193.8	13795.7	12717.3	11465.6	*11233.7*	8103.9
42.5°	14988.8	14935.0	14867.1	14773.4	14623.5	14670.3	14678.5	13594.3	12346.1	*12117.8*	8688.2
45°	14440.8	14392.8	14463.1	14600.1	14786.3	15018.1	15484.1	14536.9	13329.7	*13086.1*	9363.8
47.5°	13634.1	13599.0	13793.3	14135.2	14679.7	15319.0	16220.6	15527.5	14433.8	*14207.8*	10206.8
50°	12486.6	12480.7	12869.5	13493.6	14330.8	15464.2	16981.7	16653.9	15967.7	*15730.0*	11378.9
52.5°	10699.8	10711.5	11476.1	12474.9	13718.4	15365.9	17471.2	18101.1	17752.2	*17505.1*	12394.1
55°	8998.5	9068.7	9610.8	11051.1	12779.3	15000.5	17639.8	18776.7	18736.9	*18502.7*	12958.5
57.5°	7332.2	7459.9	7982.1	9327.5	11408.2	14158.7	17547.3	19069.5	19469.9	*19290.8*	13703.2
60°	5526.7	5585.2	6187.1	7444.7	9648.3	12622.4	16876.3	19228.7	20472.2	*20348.1*	14783.9
62.5°	3516.2	3662.6	4196.5	5409.6	7512.6	10489.0	15745.2	19226.4	21726.3	*21794.2*	16178.5
65°	1852.4	2023.3	2306.7	3352.3	5162.5	8106.2	14043.9	19046.0	23264.8	*23359.7*	17268.6
67.5°	*998.8*	*1048.0*	*1197.8*	*1740.0*	*2994.0*	*5491.6*	*11544.0*	*18156.2*	*24155.9*	*24281.2*	*17420.8*
70°	730.6	757.6	813.8	962.5	1507.0	3189.6	8423.5	16138.7	23007.2	*22960.4*	15478.3
72.5°	560.9	603.0	645.2	704.9	866.5	1702.5	5244.5	12637.6	18357.5	*18048.4*	11569.8
75°	442.6	449.6	509.3	563.2	649.9	969.5	2328.9	7360.3	11204.5	*10472.6*	5999.7
77.5°	353.6	358.3	393.4	440.3	522.2	637.0	721.3	2895.7	3577.1	*3191.9*	1302.1
80°	209.6	221.3	292.7	339.6	433.2	401.6	263.5	628.8	558.5	*505.8*	219.0
82.5°	117.1	126.5	165.1	268.1	302.1	192.0	131.1	169.8	131.1	*127.6*	62.1
85°	0.0	5.9	106.6	166.3	122.9	42.2	55.0	56.2	38.6	*36.3*	24.6
87.5°	0.0	0.0	32.8	31.6	4.7	7.0	12.9	18.7	15.2	*15.2*	12.9
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: P321433
CATALOG NUMBER: GLEON-SA9A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9	2266.9
2.5°	2311.4	2248.1	2128.7	2011.6	1913.3	1832.5	1759.9	1730.6	1707.2	1703.7	1684.9
5°	2414.4	2286.8	2058.5	1871.1	1745.8	1656.8	1580.7	1533.9	1497.6	1483.5	1470.7
7.5°	2570.2	2377.0	2049.1	1833.6	1683.8	1533.9	1393.4	1241.2	1146.3	1110.0	1088.9
10°	2759.8	2496.4	2084.2	1823.1	1560.8	1244.7	1011.7	818.5	740.0	714.3	707.2
12.5°	2981.1	2645.1	2145.1	1757.5	1298.5	884.0	697.9	632.3	614.7	606.5	606.5
15°	3235.2	2807.8	2188.4	1567.9	960.1	668.6	604.2	573.7	555.0	544.5	545.6
17.5°	3495.2	2967.1	2167.4	1292.7	708.4	594.8	546.8	514.0	488.3	477.7	475.4
20°	3757.5	3114.6	2050.3	962.5	599.5	539.8	485.9	449.6	423.9	413.3	411.0
22.5°	4029.1	3239.9	1844.2	706.1	538.6	478.9	426.2	389.9	365.3	356.0	351.3
25°	4293.7	3341.8	1556.1	571.4	481.2	421.5	371.2	337.2	315.0	305.6	304.4
27.5°	4540.8	3406.2	1222.4	504.7	430.9	370.0	324.3	293.9	275.2	268.1	267.0
30°	4763.3	3412.0	903.9	455.5	386.4	325.5	283.4	256.4	240.0	233.0	230.7
32.5°	4988.1	3362.9	658.1	411.0	345.4	286.9	245.9	224.8	213.1	207.3	207.3
35°	5200.0	3249.3	512.9	372.3	305.6	249.4	216.6	201.4	194.4	188.5	188.5
37.5°	5407.3	3086.5	435.6	338.4	268.1	217.8	190.9	181.5	175.6	169.8	169.8
40°	5618.0	2881.6	395.8	306.8	237.7	193.2	169.8	161.6	155.7	151.0	149.9
42.5°	5876.8	2645.1	370.0	277.5	210.8	171.0	149.9	140.5	135.8	131.1	128.8
45°	6176.6	2441.4	348.9	248.2	188.5	152.2	130.0	120.6	113.6	107.7	106.6
47.5°	6608.6	2293.8	320.8	216.6	167.4	132.3	112.4	101.9	91.3	85.5	84.3
50°	7160.1	2172.0	284.5	188.5	146.4	112.4	93.7	80.8	71.4	65.6	65.6
52.5°	7434.1	2012.8	251.7	163.9	122.9	94.8	76.1	60.9	56.2	50.3	50.3
55°	7544.2	1891.0	219.0	139.3	101.9	78.5	59.7	46.8	43.3	39.8	38.6
57.5°	7853.3	1855.9	190.9	118.3	84.3	62.1	45.7	35.1	32.8	28.1	28.1
60°	8350.9	1873.5	165.1	100.7	67.9	48.0	34.0	26.9	24.6	19.9	19.9
62.5°	8888.4	1851.2	139.3	86.6	52.7	35.1	23.4	19.9	19.9	11.7	10.5
65°	8991.4	1648.6	119.4	71.4	41.0	25.8	15.2	12.9	17.6	2.3	0.0
67.5°	*8345.1*	*1278.6*	*103.0*	*55.0*	*30.4*	*19.9*	*11.7*	*5.9*	*15.2*	*0.0*	*0.0*
70°	6673.0	812.6	83.1	39.8	23.4	16.4	9.4	2.3	11.7	0.0	0.0
72.5°	4718.8	471.9	65.6	28.1	19.9	12.9	7.0	0.0	7.0	0.0	0.0
75°	2386.3	251.7	41.0	21.1	15.2	9.4	4.7	0.0	1.2	0.0	0.0
77.5°	516.4	117.1	25.8	15.2	10.5	5.9	2.3	0.0	0.0	0.0	0.0
80°	112.4	51.5	16.4	9.4	5.9	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	41.0	26.9	8.2	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.2	14.1	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	4.7	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

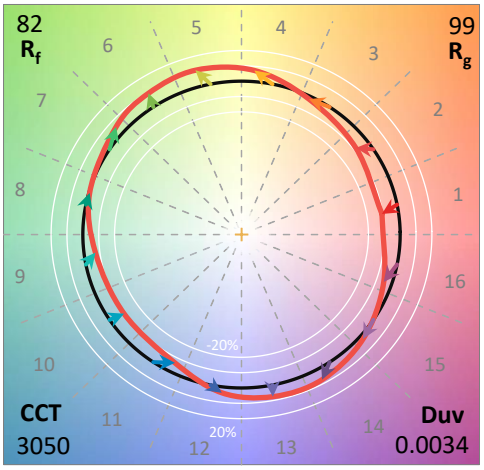
Test Information

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

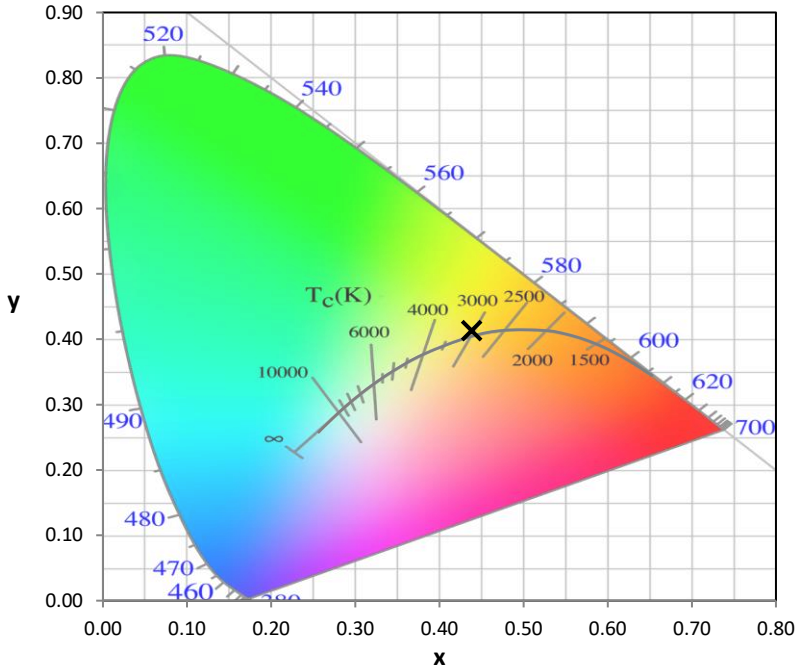
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

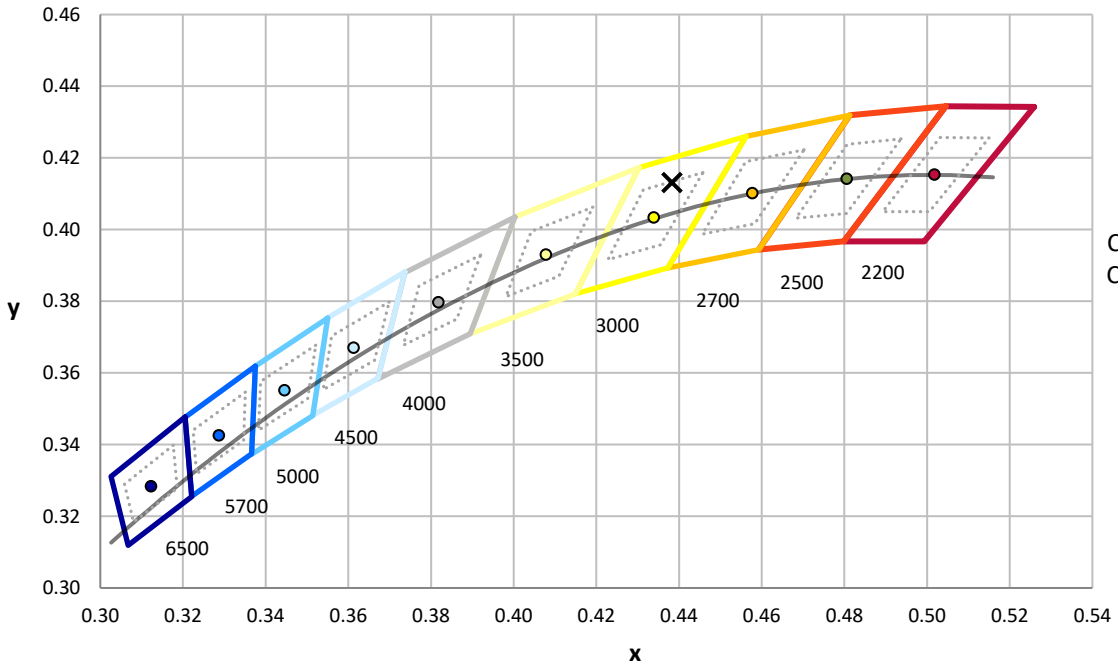
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

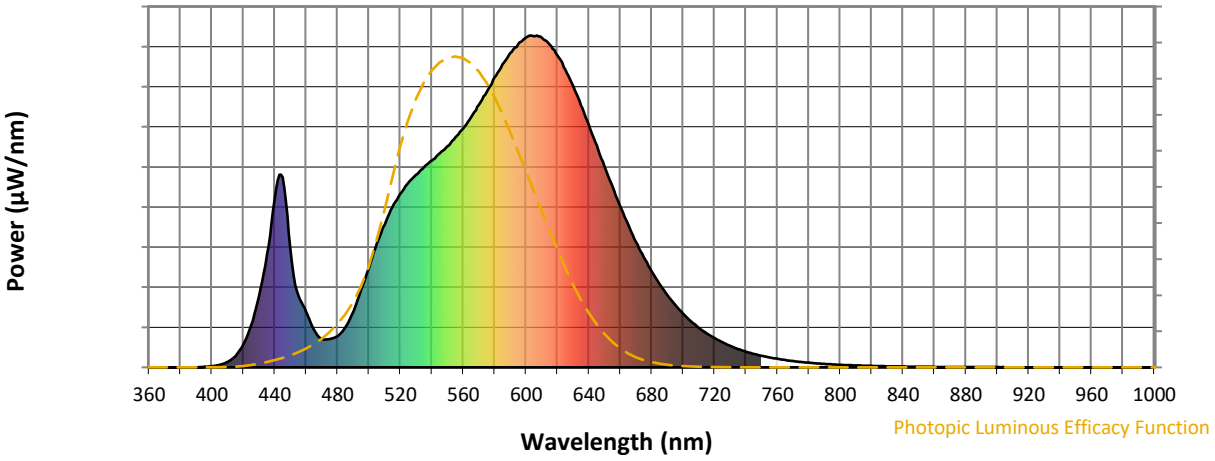


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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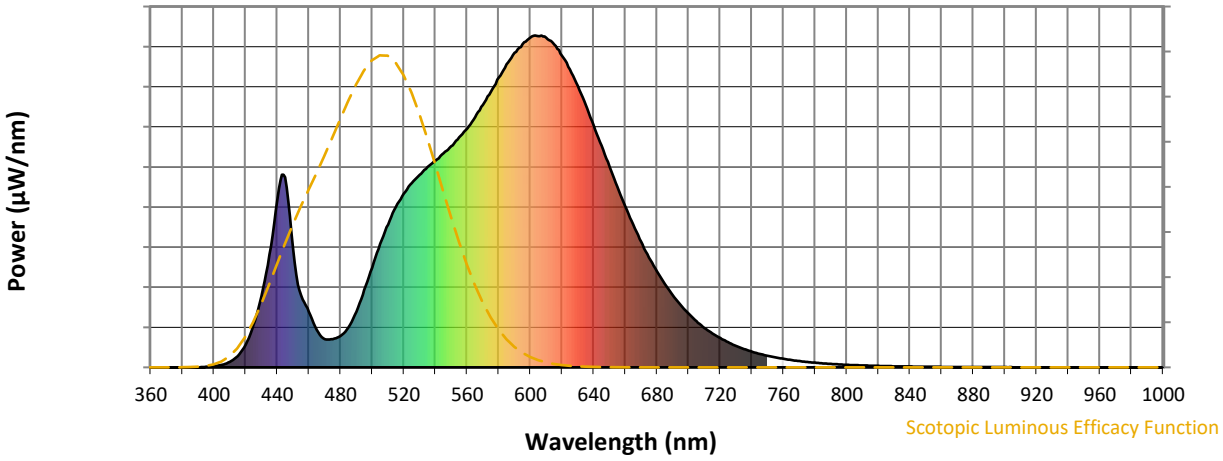
Scotopic Flux vs. Wavelength



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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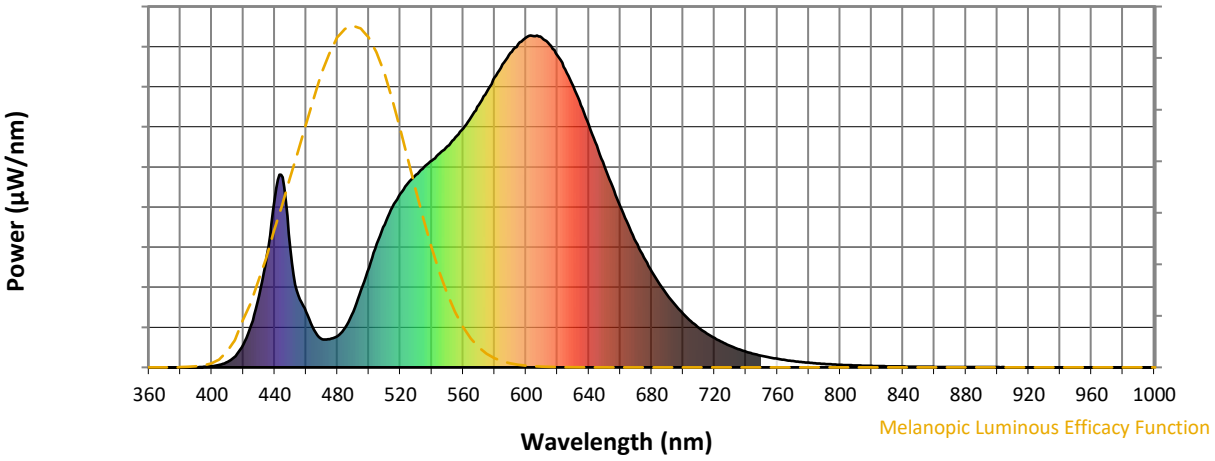
Melanopic Flux vs. Wavelength



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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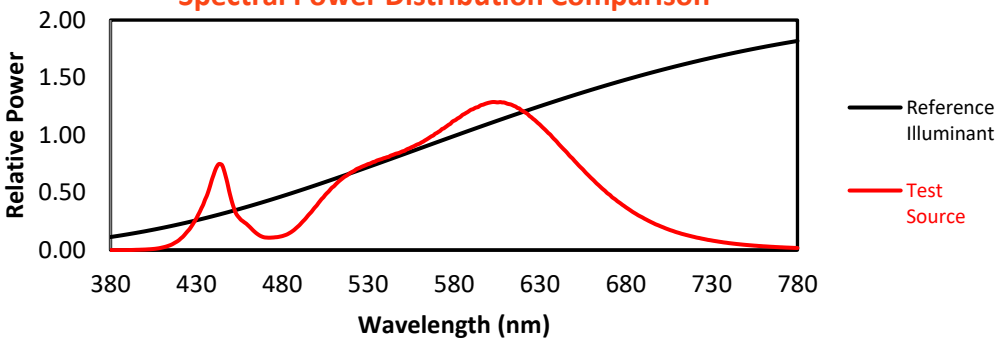
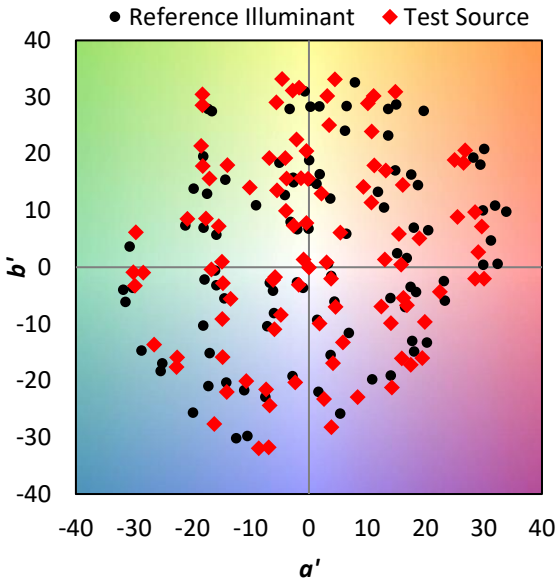
Summary

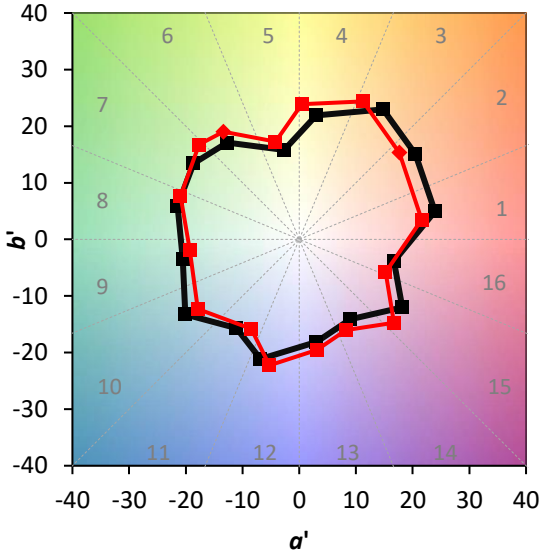
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

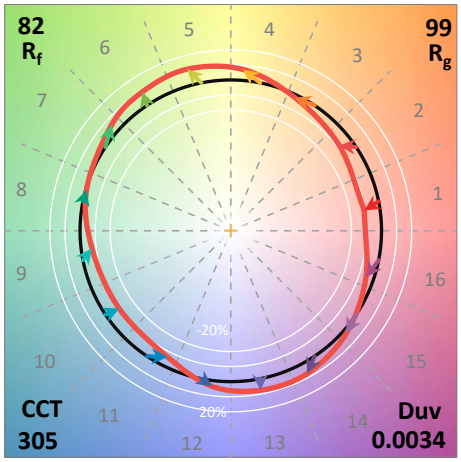
Spectral Power Distribution Comparison

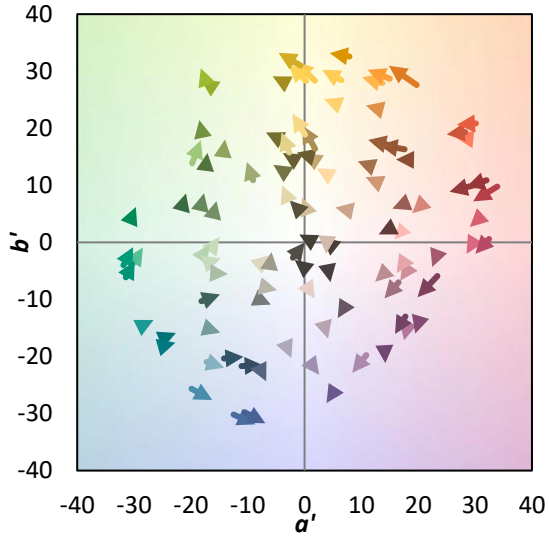


Color Vector Graphics









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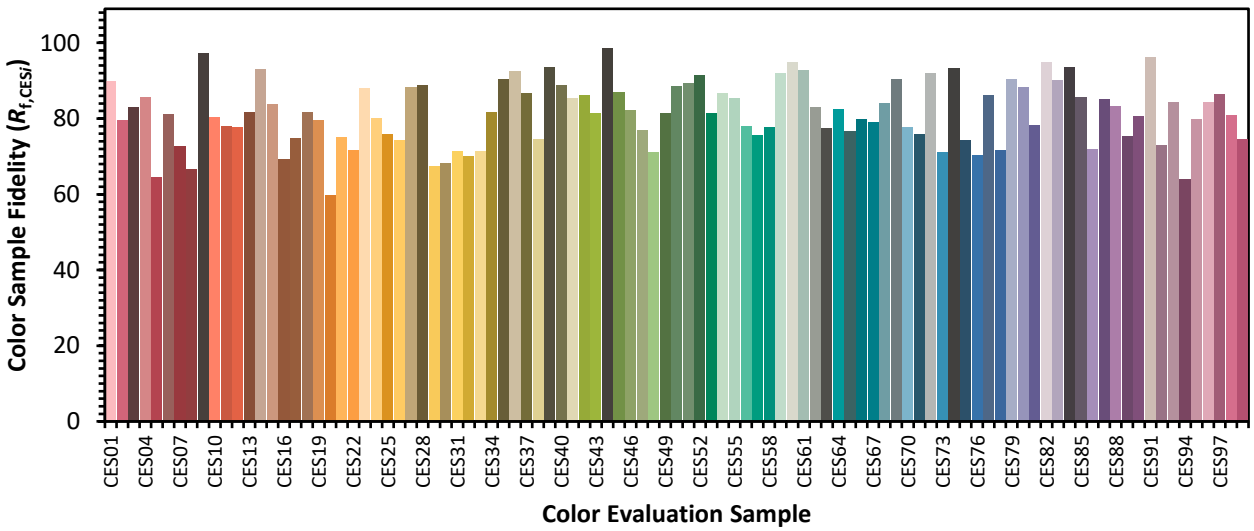
Individual Sample Fidelity Index ($R_{f,i}$)

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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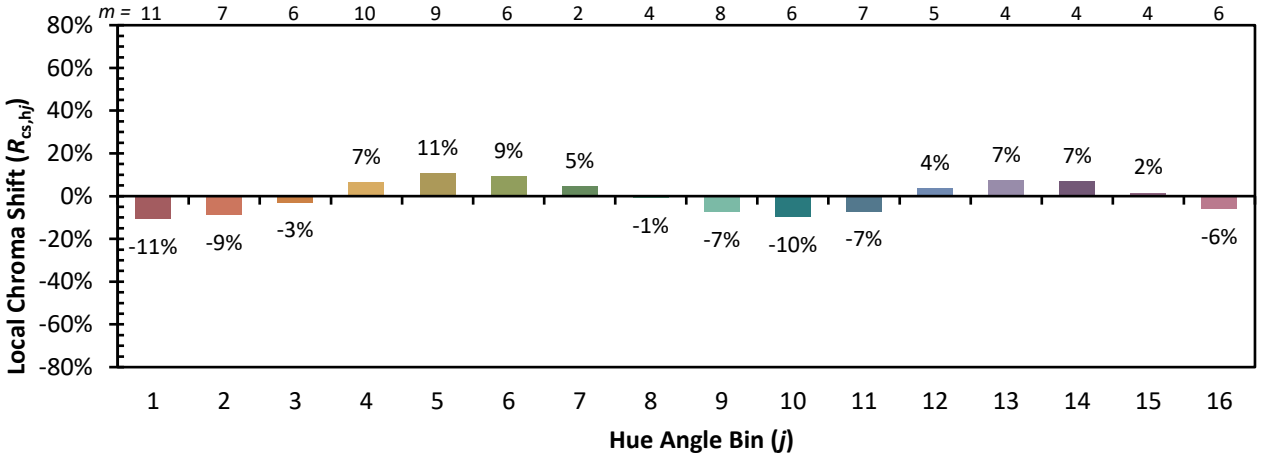
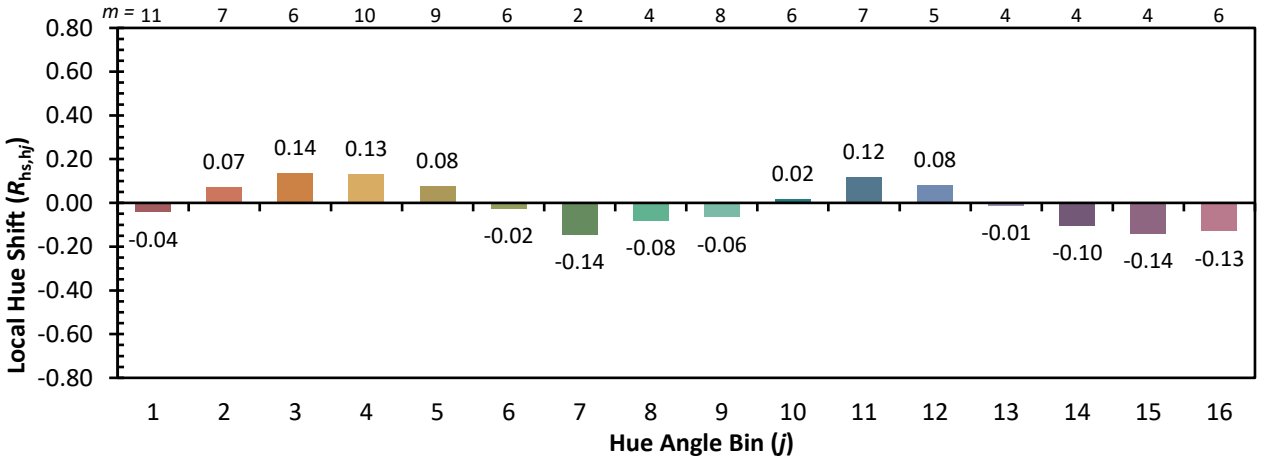
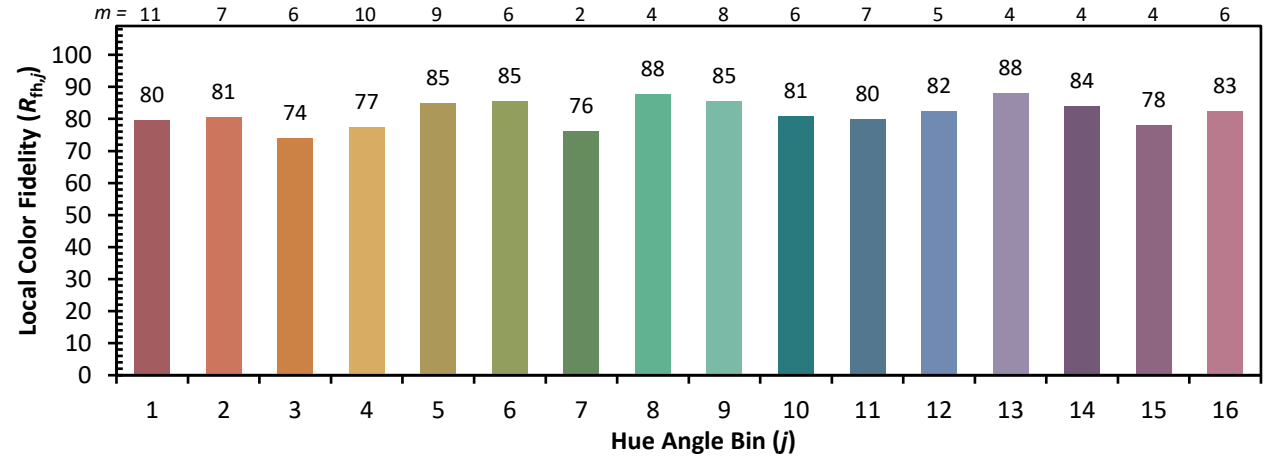
Color Rendition by Hue-Angle Bin







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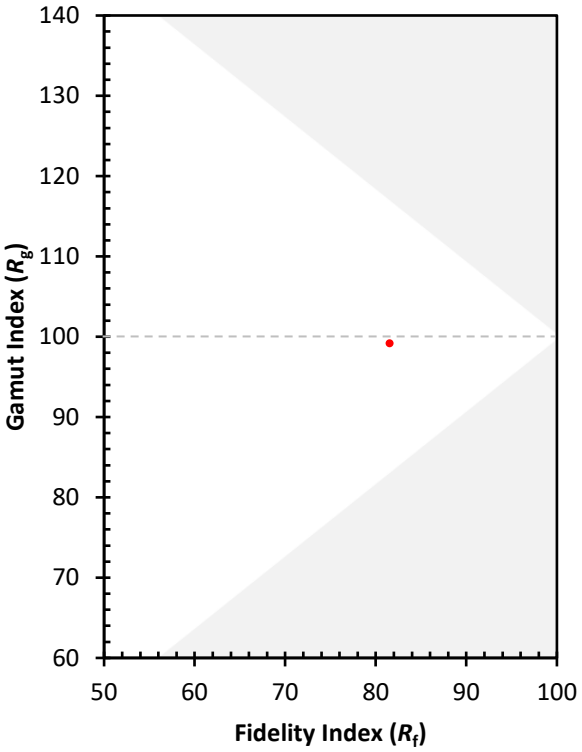
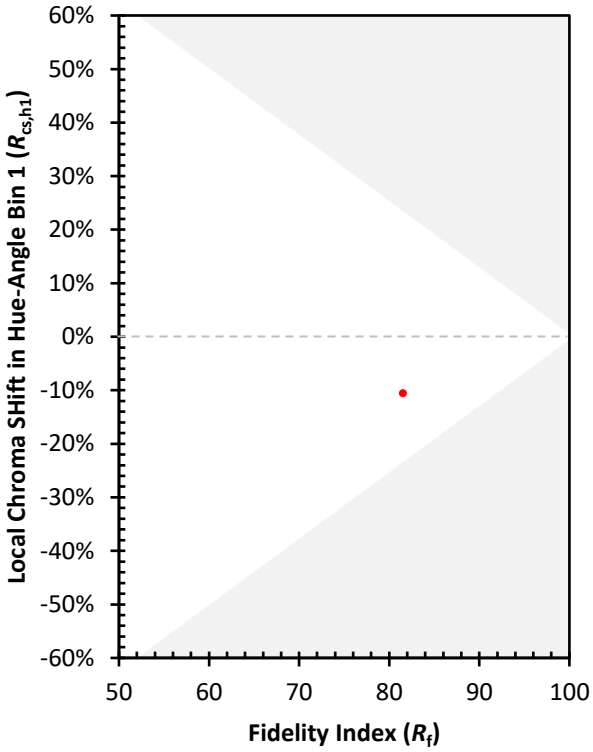
Measure Comparisons





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