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: P321438

Luminaire Tested: **GLEON-SA4B-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:	P321438
	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-SA4B-830-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 800mA 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:	14786 lumens
Efficiency:	N/A
Efficacy:	86.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	171
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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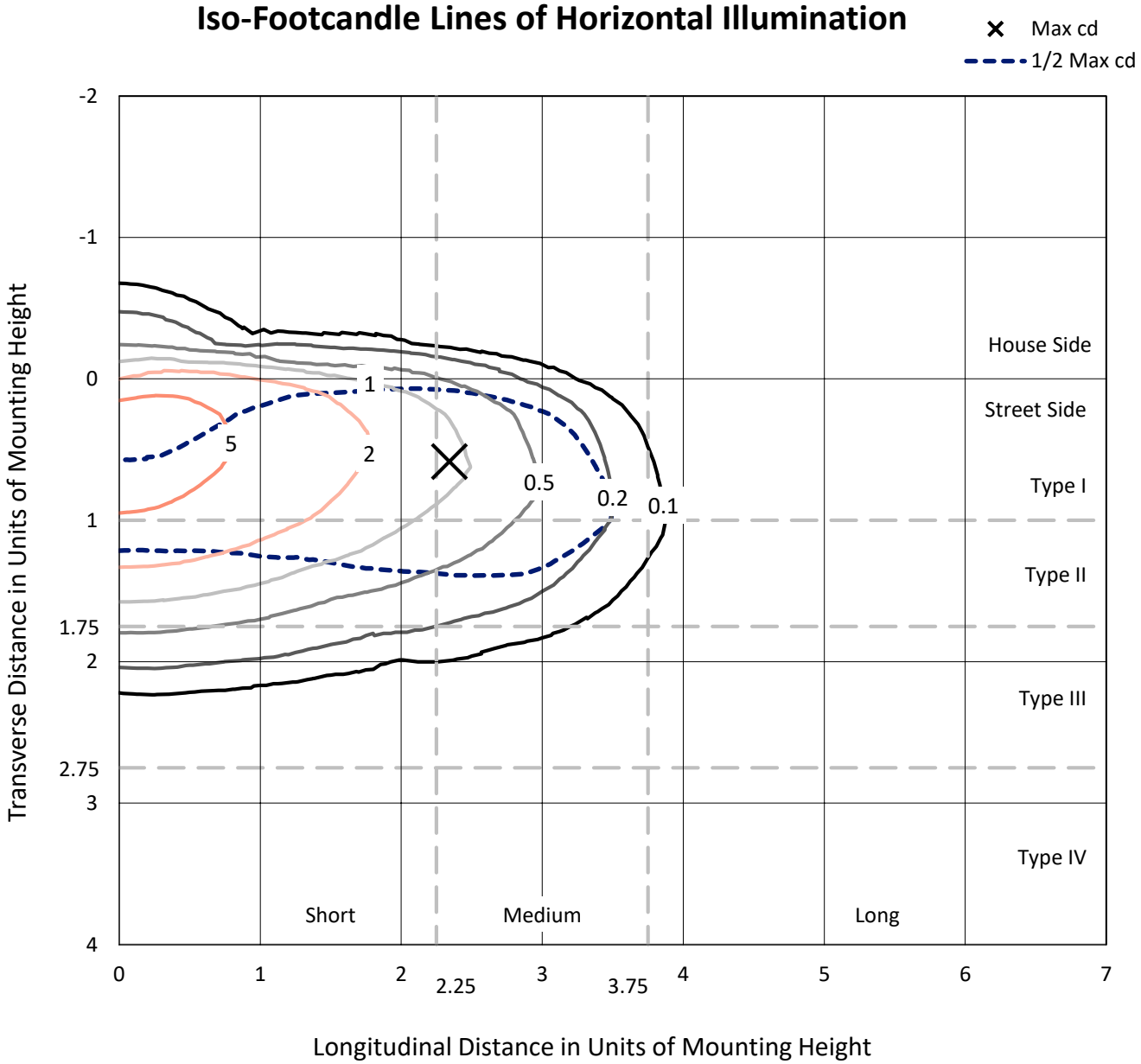
Scaled Data Report

REPORT NUMBER: P321438
CATALOG NUMBER: GLEON-SA4B-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Medium - N/A

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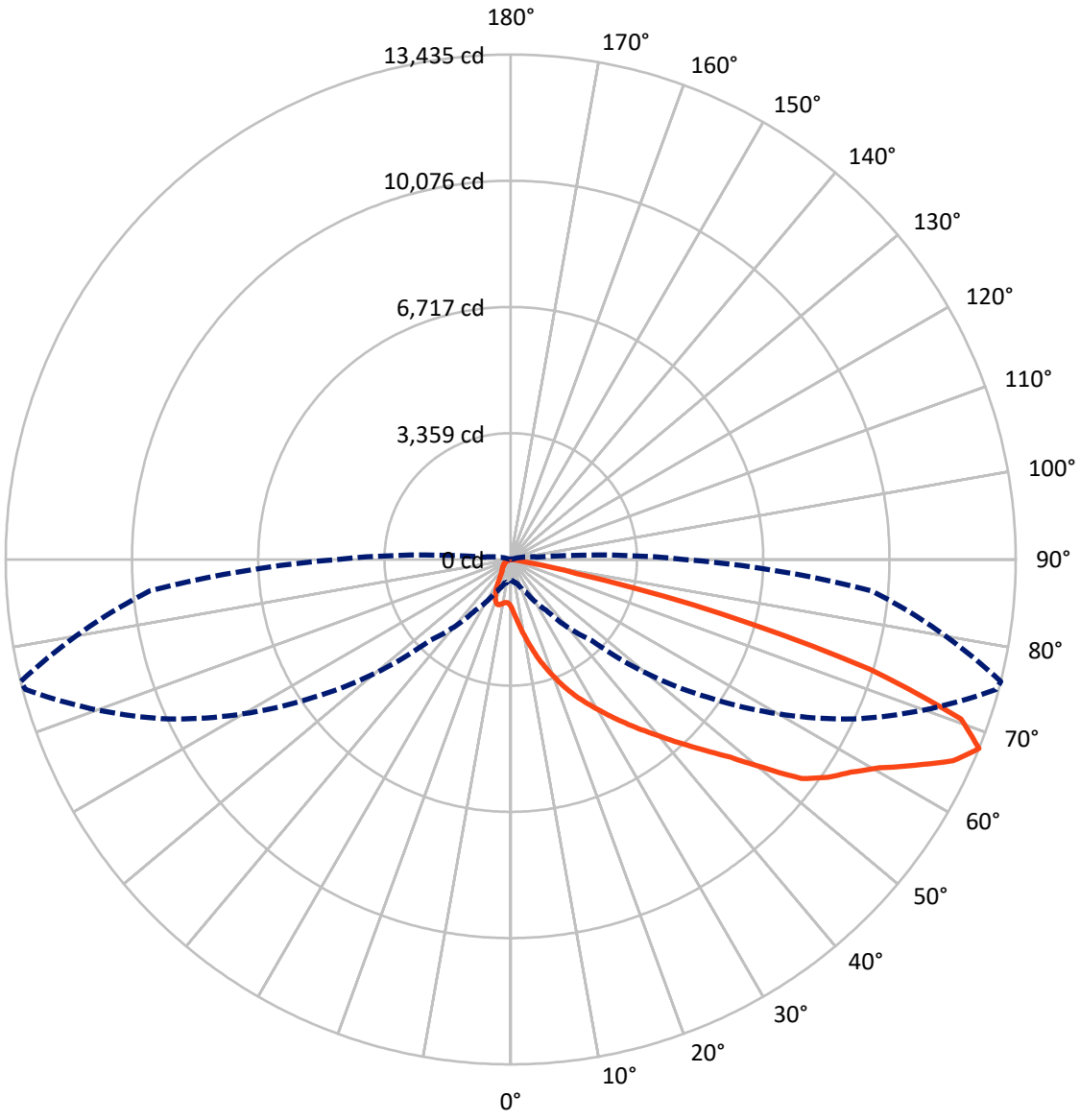
Luminous Intensity Polar Plot



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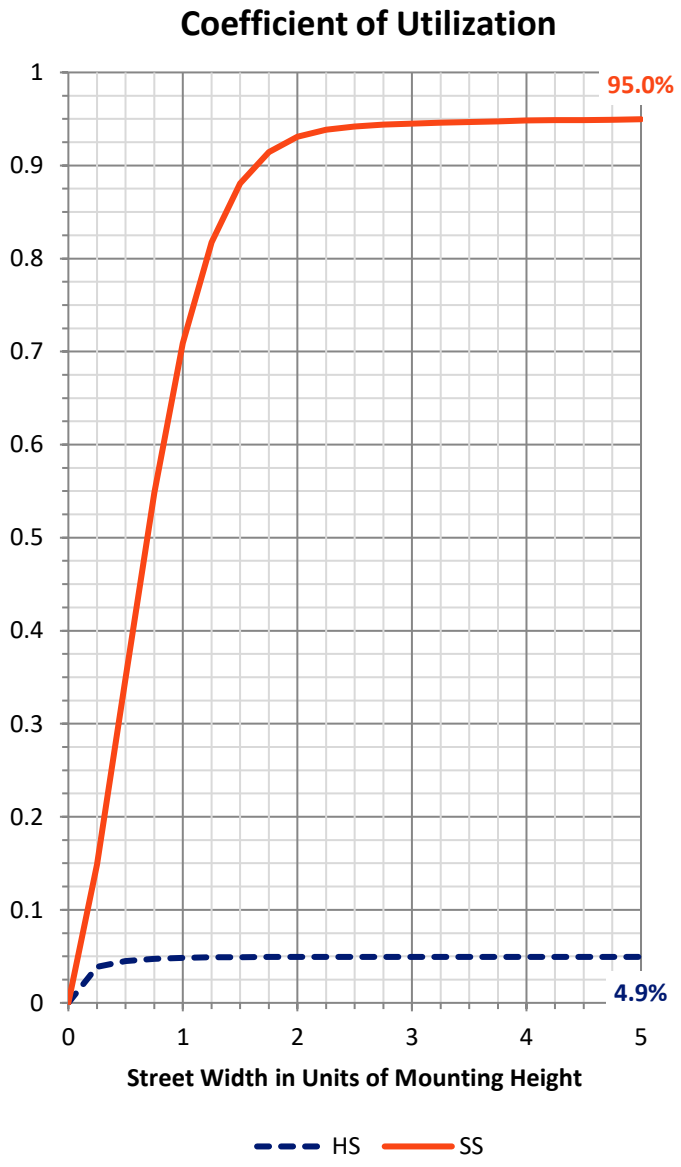
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	734.2	0.0	734.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14051.8	0.0	14051.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	14786.0	0.0	14786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	1.1
10°-20°	618.3	4.2
20°-30°	1258.0	8.5
30°-40°	2183.5	14.8
40°-50°	3085.0	20.9
50°-60°	3498.5	23.7
60°-70°	2901.7	19.6
70°-80°	1051.1	7.1
80°-90°	34.1	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°	14786.0	100.0
0°-180°	14786.0	100.0



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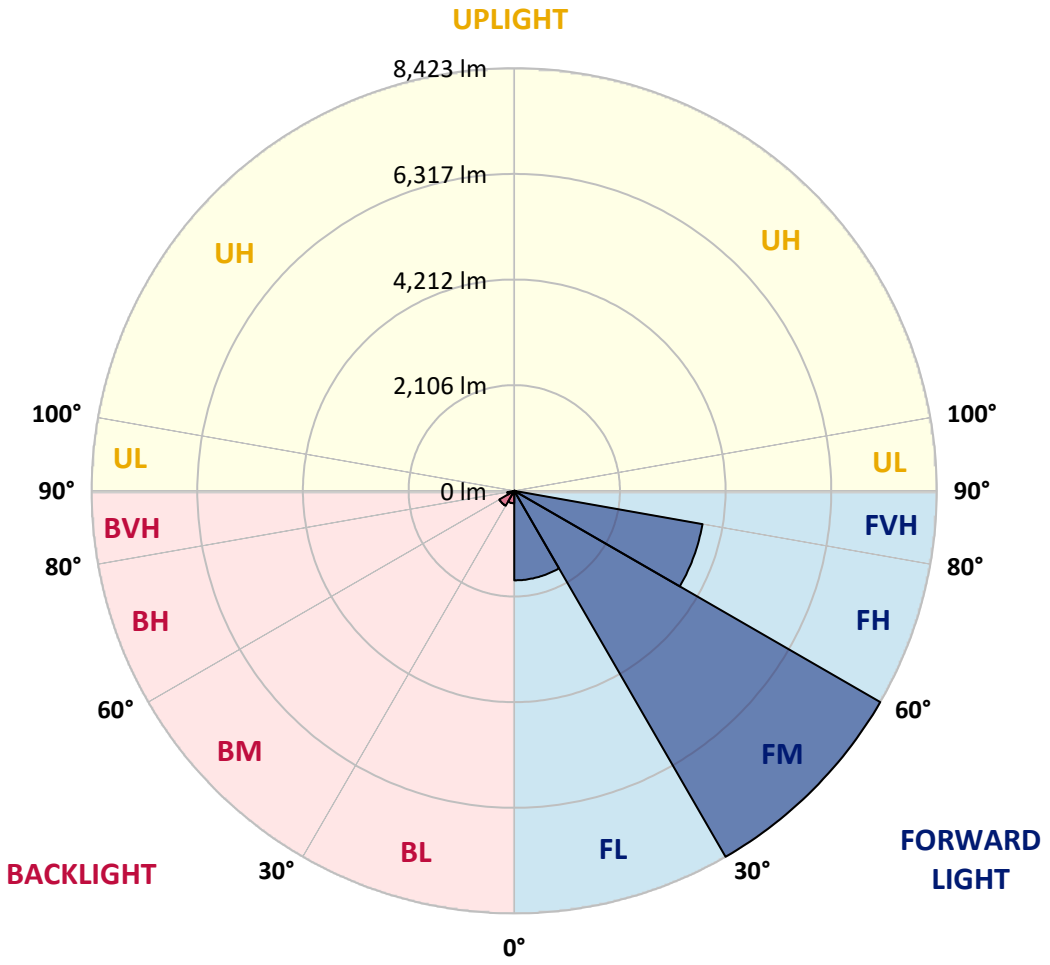
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1784.6	12.1			
FM	(30°-60°)	8423.3	57.0			
FH	(60°-80°)	3810.8	25.8			G2/5000
FVH	(80°-90°)	33.0	0.2			G1/100
BL	(0°-30°)	247.6	1.7	B1/500		
BM	(30°-60°)	343.6	2.3	B1/1000		
BH	(60°-80°)	141.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G2
Type II Medium



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Scaled Data Report

REPORT NUMBER: P321438
CATALOG NUMBER: GLEON-SA4B-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	*1254.3*	1254.3
2.5°	1872.4	1830.2	1840.0	1812.7	1763.5	1662.4	1576.3	1494.6	1399.4	*1396.2*	1317.8
5°	2524.8	2489.1	2484.6	2429.5	2340.1	2168.4	2001.3	1810.8	1598.3	*1582.8*	1416.2
7.5°	3116.9	3088.4	3078.0	3012.6	2846.1	2679.0	2461.3	2181.4	1849.0	*1820.5*	1549.1
10°	3571.7	3558.1	3560.7	3514.1	3371.5	3216.0	2930.3	2573.3	2133.4	*2089.4*	1708.4
12.5°	3916.4	3919.6	3943.0	3914.4	3834.8	3719.4	3414.3	2991.2	2448.3	*2388.1*	1890.5
15°	4169.7	4185.9	4228.7	4264.3	4258.5	4158.7	3878.8	3415.6	2782.6	*2715.9*	2093.3
17.5°	4333.6	4351.8	4414.0	4493.0	4565.6	4542.2	4327.1	3825.0	3120.8	*3043.7*	2310.3
20°	4477.4	4498.8	4565.6	4669.9	4805.3	4834.4	4693.2	4222.2	3458.3	*3364.4*	2534.5
22.5°	4789.1	4788.4	4829.2	4890.1	5019.1	5094.2	5004.8	4590.8	3792.0	*3694.2*	2763.2
25°	5352.7	5331.3	5317.1	5269.1	5297.7	5344.3	5294.4	4935.5	4127.6	*4028.5*	2995.1
27.5°	6022.6	6035.6	5920.3	5791.3	5691.6	5643.6	5562.0	5254.9	4450.2	*4341.4*	3221.9
30°	6729.5	6733.3	6597.3	6432.7	6213.1	6031.0	5889.8	5560.0	4781.9	*4663.4*	3442.1
32.5°	7367.0	7341.7	7206.9	6982.8	6705.5	6500.8	6207.3	5900.8	5133.1	*5018.4*	3687.0
35°	7872.3	7842.5	7678.6	7474.5	7186.8	6980.8	6627.7	6241.0	5502.4	*5390.3*	3932.6
37.5°	8241.6	8206.6	8038.2	7828.2	7580.1	7460.3	7115.6	6610.9	5905.4	*5784.9*	4191.1
40°	8369.9	8339.4	8233.8	8080.3	7880.7	7853.5	7633.2	7036.5	6344.0	*6215.7*	4483.9
42.5°	8293.4	8263.6	8226.0	8174.2	8091.3	8117.2	8121.7	7521.8	6831.2	*6704.8*	4807.2
45°	7990.2	7963.6	8002.5	8078.3	8181.3	8309.6	8567.5	8043.3	7375.4	*7240.6*	5181.0
47.5°	7543.8	7524.4	7631.9	7821.1	8122.4	8476.1	8975.0	8591.4	7986.3	*7861.3*	5647.5
50°	6908.9	6905.7	7120.8	7466.1	7929.3	8556.5	9396.1	9214.7	8835.0	*8703.5*	6296.0
52.5°	5920.3	5926.7	6349.8	6902.4	7590.5	8502.0	9666.9	10015.5	9822.4	*9685.7*	6857.7
55°	4978.9	5017.8	5317.7	6114.6	7070.9	8299.9	9760.2	10389.3	10367.3	*10237.7*	7170.0
57.5°	4057.0	4127.6	4416.5	5161.0	6312.2	7834.1	9709.0	10551.3	10772.8	*10673.7*	7582.1
60°	3058.0	3090.4	3423.4	4119.2	5338.5	6984.1	9337.8	10639.4	11327.4	*11258.7*	8180.0
62.5°	1945.6	2026.5	2322.0	2993.2	4156.7	5803.6	8711.9	10638.1	12021.3	*12058.8*	8951.7
65°	1024.9	1119.5	1276.3	1854.9	2856.5	4485.2	7770.6	10538.3	12872.6	*12925.1*	9554.8
67.5°	*552.6*	*579.8*	*662.8*	*962.7*	*1656.6*	*3038.5*	*6387.4*	*10045.9*	*13365.6*	*13434.9*	*9639.0*
70°	404.3	419.2	450.3	532.6	833.8	1764.8	4660.8	8929.6	12730.0	*12704.1*	8564.2
72.5°	310.3	333.7	357.0	390.0	479.4	942.0	2901.8	6992.5	10157.3	*9986.3*	6401.6
75°	244.9	248.8	281.8	311.6	359.6	536.4	1288.6	4072.5	6199.5	*5794.6*	3319.7
77.5°	195.7	198.2	217.7	243.6	289.0	352.4	399.1	1602.2	1979.3	*1766.1*	720.4
80°	116.0	122.4	162.0	187.9	239.7	222.2	145.8	347.9	309.0	*279.9*	121.2
82.5°	64.8	70.0	91.4	148.4	167.2	106.3	72.6	93.9	72.6	*70.6*	34.3
85°	0.0	3.2	59.0	92.0	68.0	23.3	30.5	31.1	21.4	*20.1*	13.6
87.5°	0.0	0.0	18.1	17.5	2.6	3.9	7.1	10.4	8.4	*8.4*	7.1
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: P321438
CATALOG NUMBER: GLEON-SA4B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3	1254.3
2.5°	1278.9	1243.9	1177.8	1113.0	1058.6	1013.9	973.8	957.6	944.6	942.7	932.3
5°	1335.9	1265.3	1139.0	1035.3	966.0	916.7	874.6	848.7	828.6	820.9	813.7
7.5°	1422.1	1315.2	1133.8	1014.6	931.6	848.7	771.0	686.7	634.3	614.2	602.5
10°	1527.0	1381.3	1153.2	1008.7	863.6	688.7	559.8	452.9	409.5	395.2	391.3
12.5°	1649.5	1463.5	1186.9	972.5	718.5	489.1	386.1	349.9	340.1	335.6	335.6
15°	1790.1	1553.6	1210.9	867.5	531.3	369.9	334.3	317.5	307.1	301.3	301.9
17.5°	1933.9	1641.7	1199.2	715.3	392.0	329.1	302.6	284.4	270.2	264.3	263.0
20°	2079.0	1723.3	1134.4	532.6	331.7	298.7	268.9	248.8	234.5	228.7	227.4
22.5°	2229.3	1792.7	1020.4	390.7	298.0	265.0	235.8	215.7	202.1	197.0	194.4
25°	2375.7	1849.0	861.0	316.2	266.3	233.2	205.4	186.6	174.3	169.1	168.4
27.5°	2512.4	1884.7	676.4	279.2	238.4	204.7	179.5	162.6	152.3	148.4	147.7
30°	2635.5	1887.9	500.2	252.0	213.8	180.1	156.8	141.9	132.8	128.9	127.6
32.5°	2759.9	1860.7	364.1	227.4	191.1	158.7	136.1	124.4	117.9	114.7	114.7
35°	2877.2	1797.8	283.8	206.0	169.1	138.0	119.9	111.4	107.5	104.3	104.3
37.5°	2991.9	1707.8	241.0	187.2	148.4	120.5	105.6	100.4	97.2	93.9	93.9
40°	3108.5	1594.4	219.0	169.7	131.5	106.9	93.9	89.4	86.2	83.6	82.9
42.5°	3251.7	1463.5	204.7	153.5	116.6	94.6	82.9	77.7	75.2	72.6	71.3
45°	3417.5	1350.8	193.1	137.3	104.3	84.2	71.9	66.7	62.8	59.6	59.0
47.5°	3656.6	1269.2	177.5	119.9	92.6	73.2	62.2	56.4	50.5	47.3	46.6
50°	3961.7	1201.8	157.4	104.3	81.0	62.2	51.8	44.7	39.5	36.3	36.3
52.5°	4113.3	1113.7	139.3	90.7	68.0	52.5	42.1	33.7	31.1	27.9	27.9
55°	4174.2	1046.3	121.2	77.1	56.4	43.4	33.0	25.9	24.0	22.0	21.4
57.5°	4345.3	1026.9	105.6	65.4	46.6	34.3	25.3	19.4	18.1	15.5	15.5
60°	4620.6	1036.6	91.4	55.7	37.6	26.6	18.8	14.9	13.6	11.0	11.0
62.5°	4918.0	1024.3	77.1	47.9	29.2	19.4	13.0	11.0	11.0	6.5	5.8
65°	4975.0	912.2	66.1	39.5	22.7	14.3	8.4	7.1	9.7	1.3	0.0
67.5°	*4617.4*	*707.5*	*57.0*	*30.5*	*16.8*	*11.0*	*6.5*	*3.2*	*8.4*	*0.0*	*0.0*
70°	3692.2	449.6	46.0	22.0	13.0	9.1	5.2	1.3	6.5	0.0	0.0
72.5°	2610.9	261.1	36.3	15.5	11.0	7.1	3.9	0.0	3.9	0.0	0.0
75°	1320.4	139.3	22.7	11.7	8.4	5.2	2.6	0.0	0.6	0.0	0.0
77.5°	285.7	64.8	14.3	8.4	5.8	3.2	1.3	0.0	0.0	0.0	0.0
80°	62.2	28.5	9.1	5.2	3.2	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	14.9	4.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	7.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.6	0.6	0.6	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

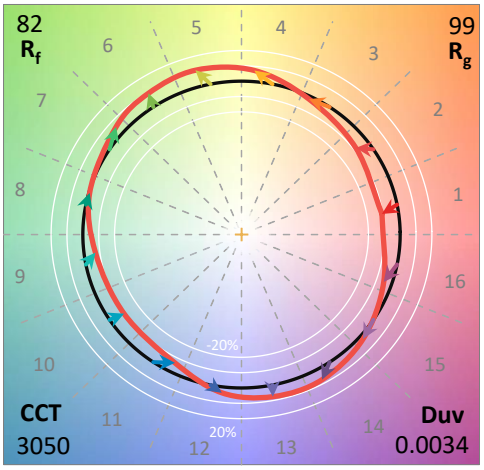
Test Information

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

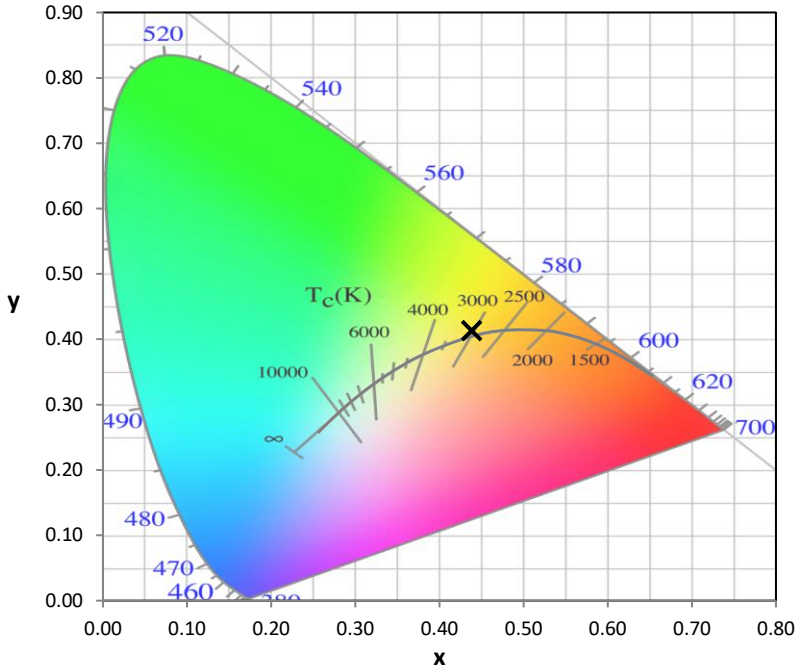
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

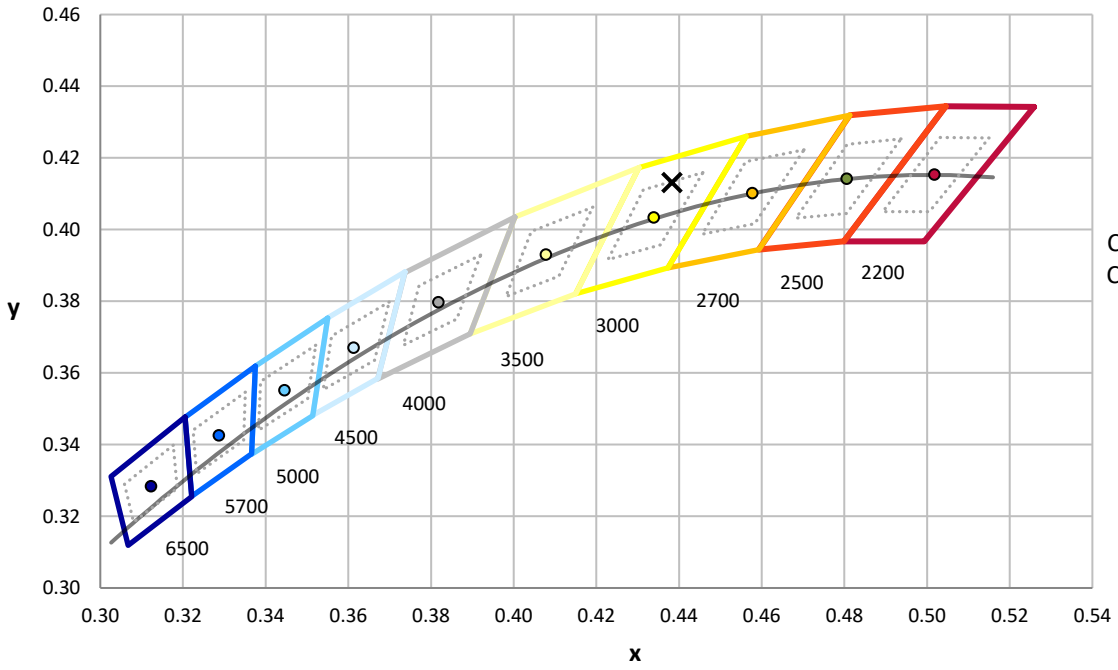
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

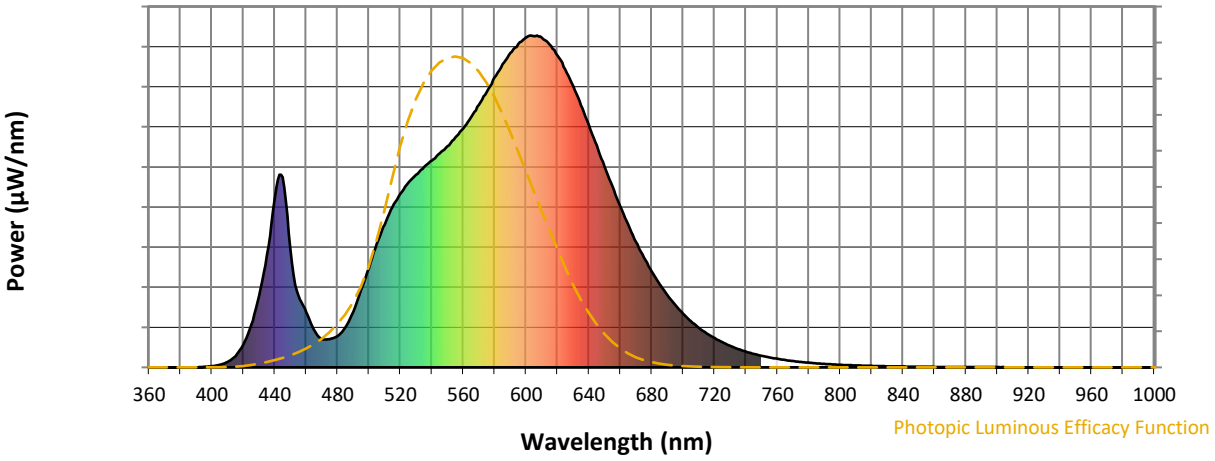


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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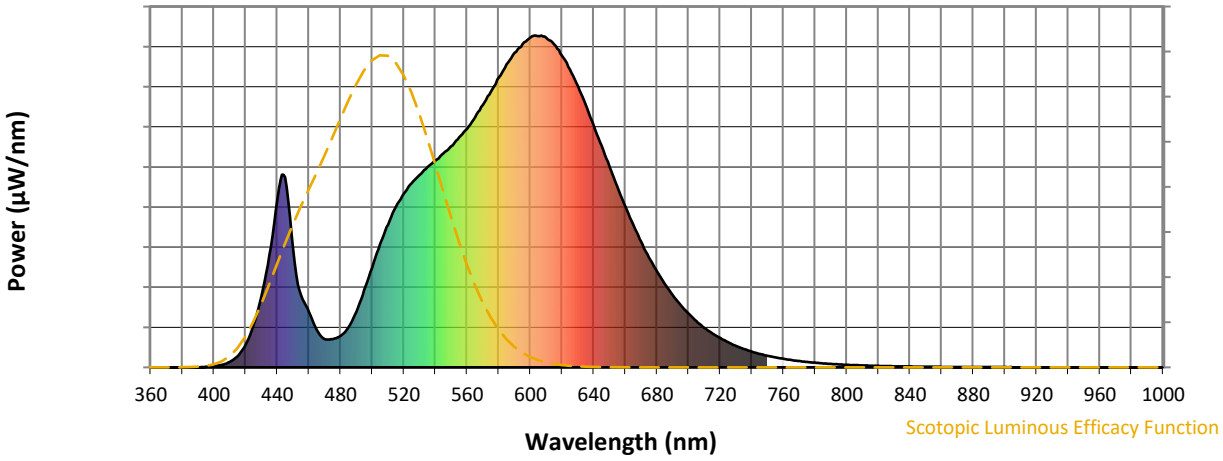
Scotopic Flux vs. Wavelength



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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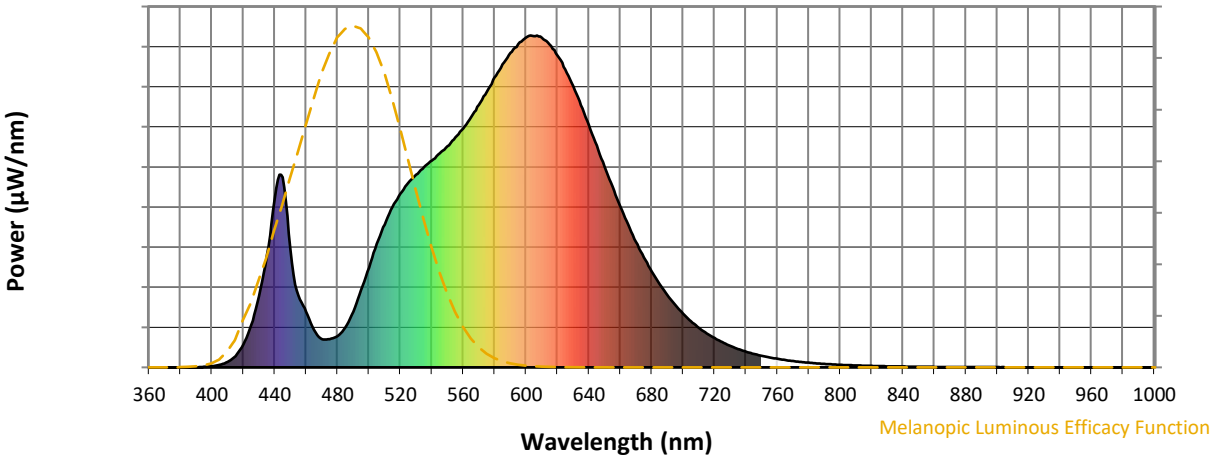
Melanopic Flux vs. Wavelength



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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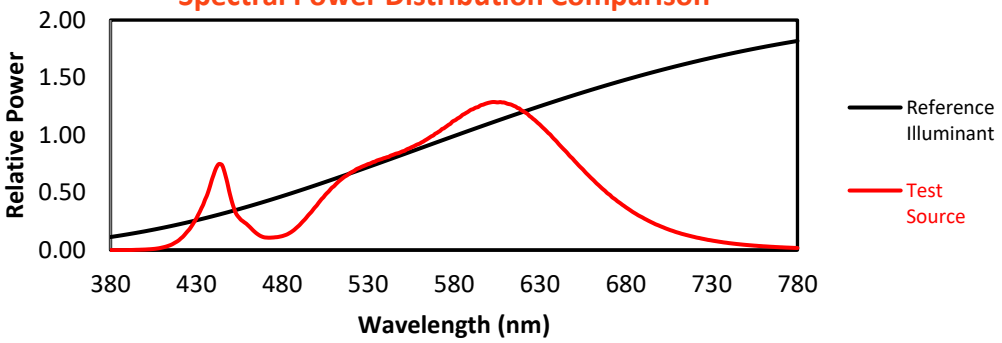
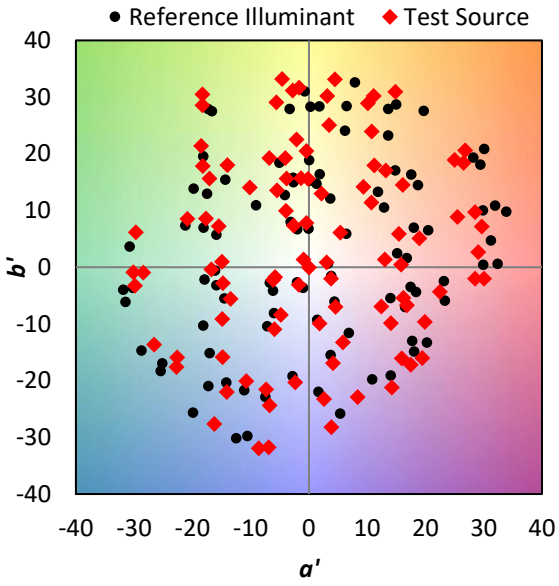
Summary

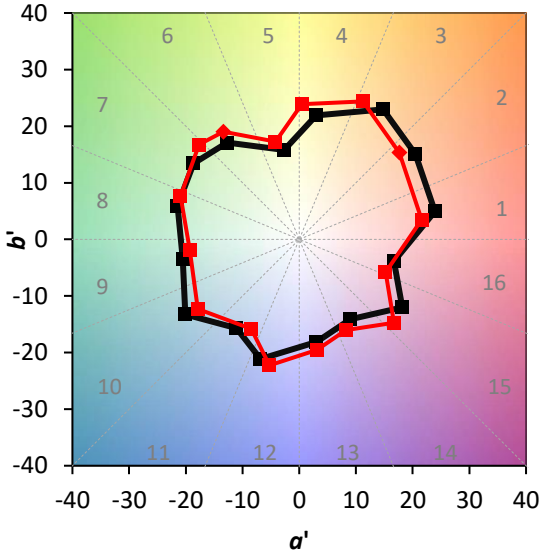
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

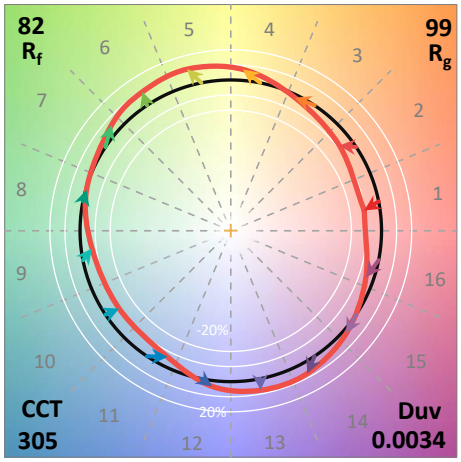
Spectral Power Distribution Comparison

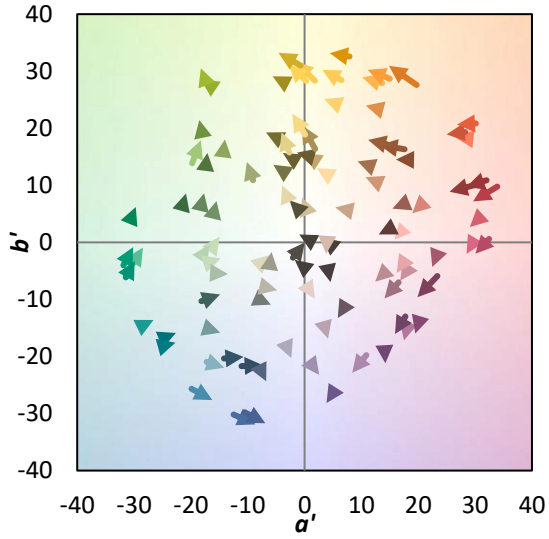


Color Vector Graphics









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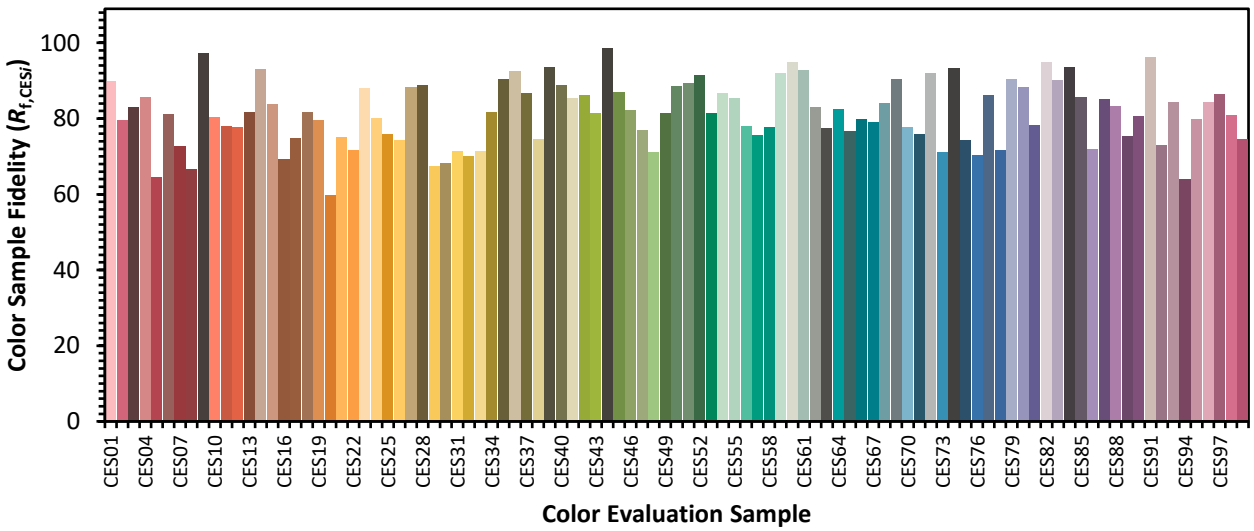
Individual Sample Fidelity Index ($R_{f,i}$)

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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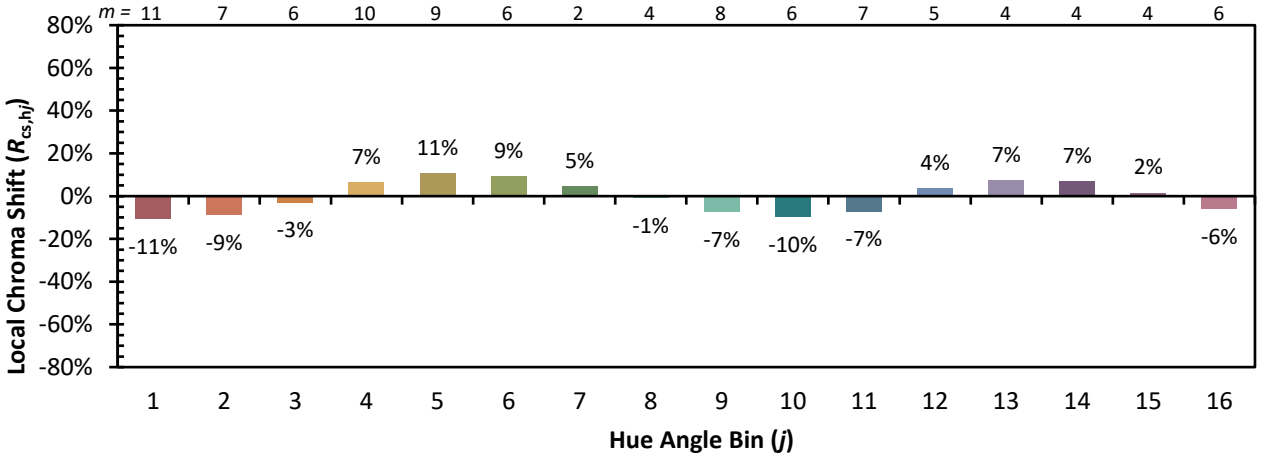
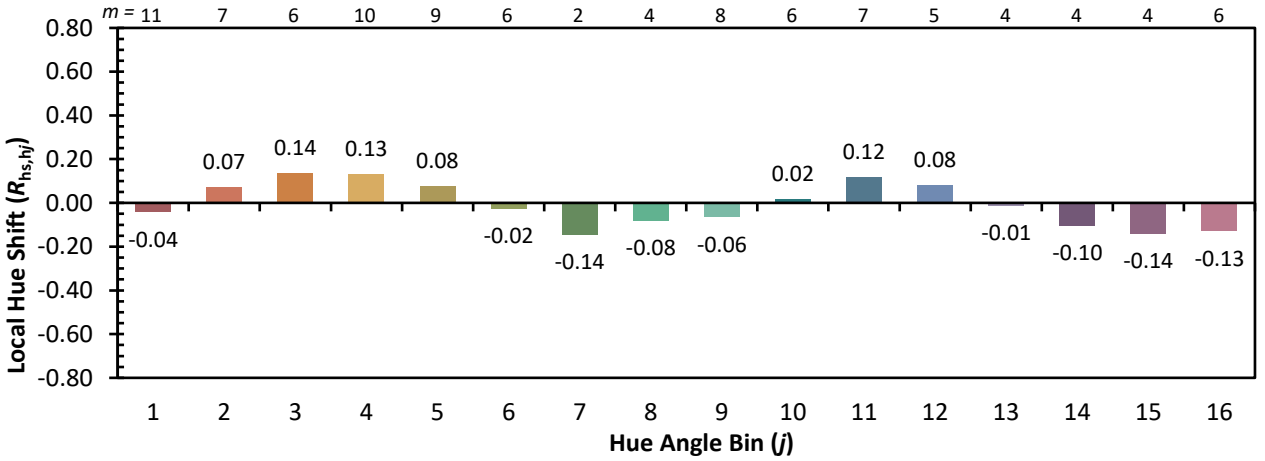
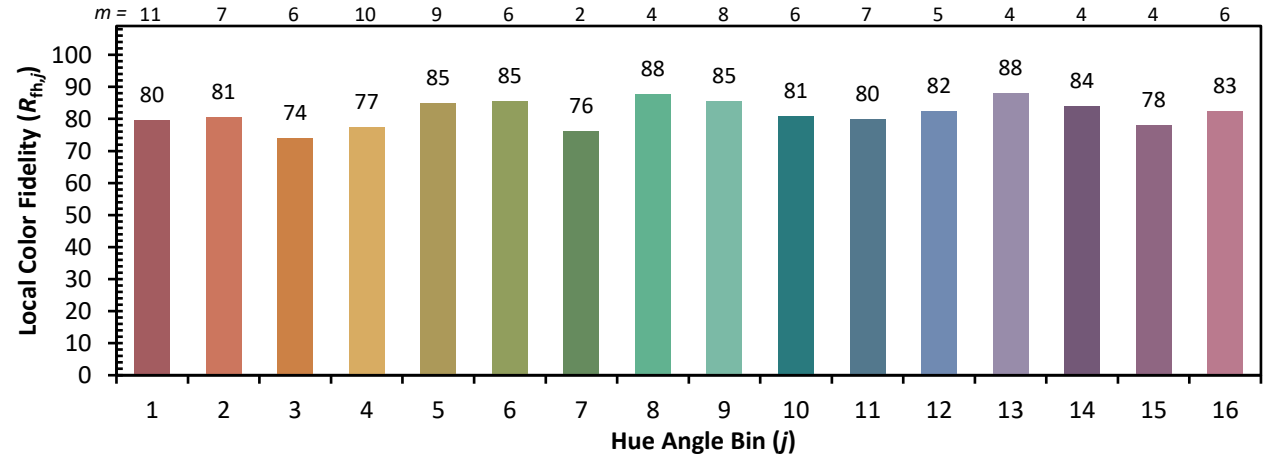
Color Rendition by Hue-Angle Bin







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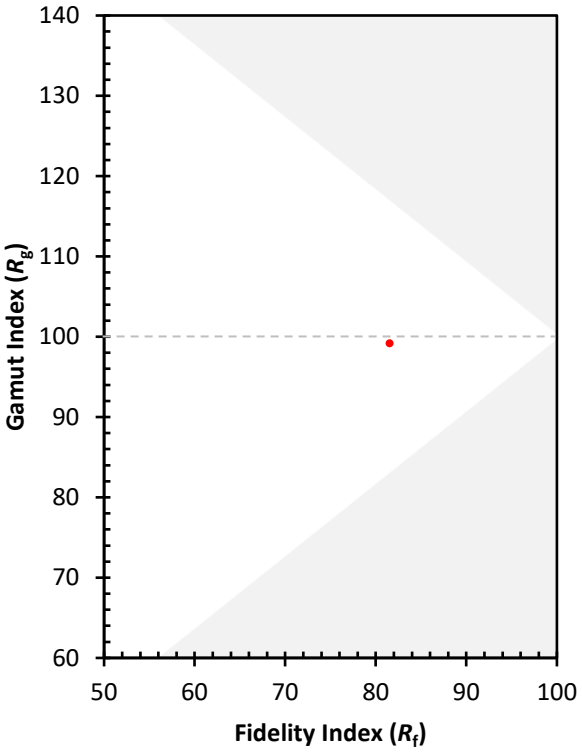
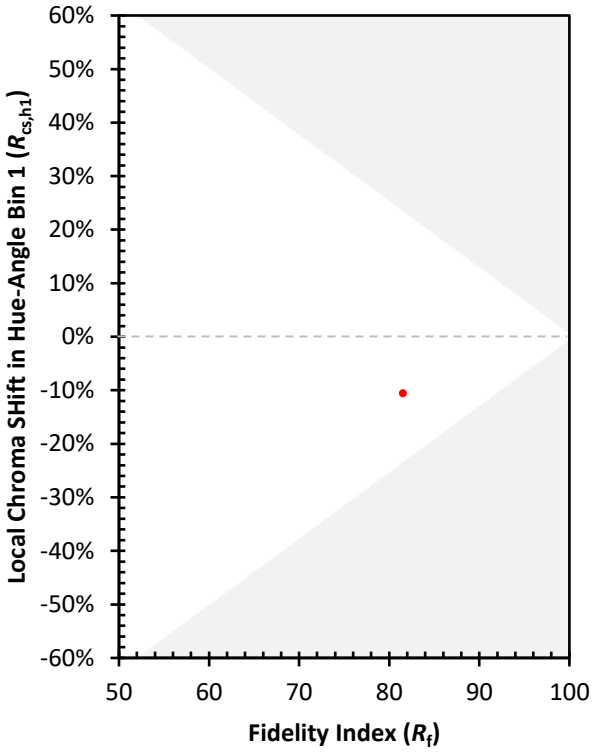
Measure Comparisons





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