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: P321452

Luminaire Tested: **GLEON-SA8C-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:	P321452
	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-SA8C-830-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 1050mA 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:	36360 lumens
Efficiency:	N/A
Efficacy:	81.7 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	445
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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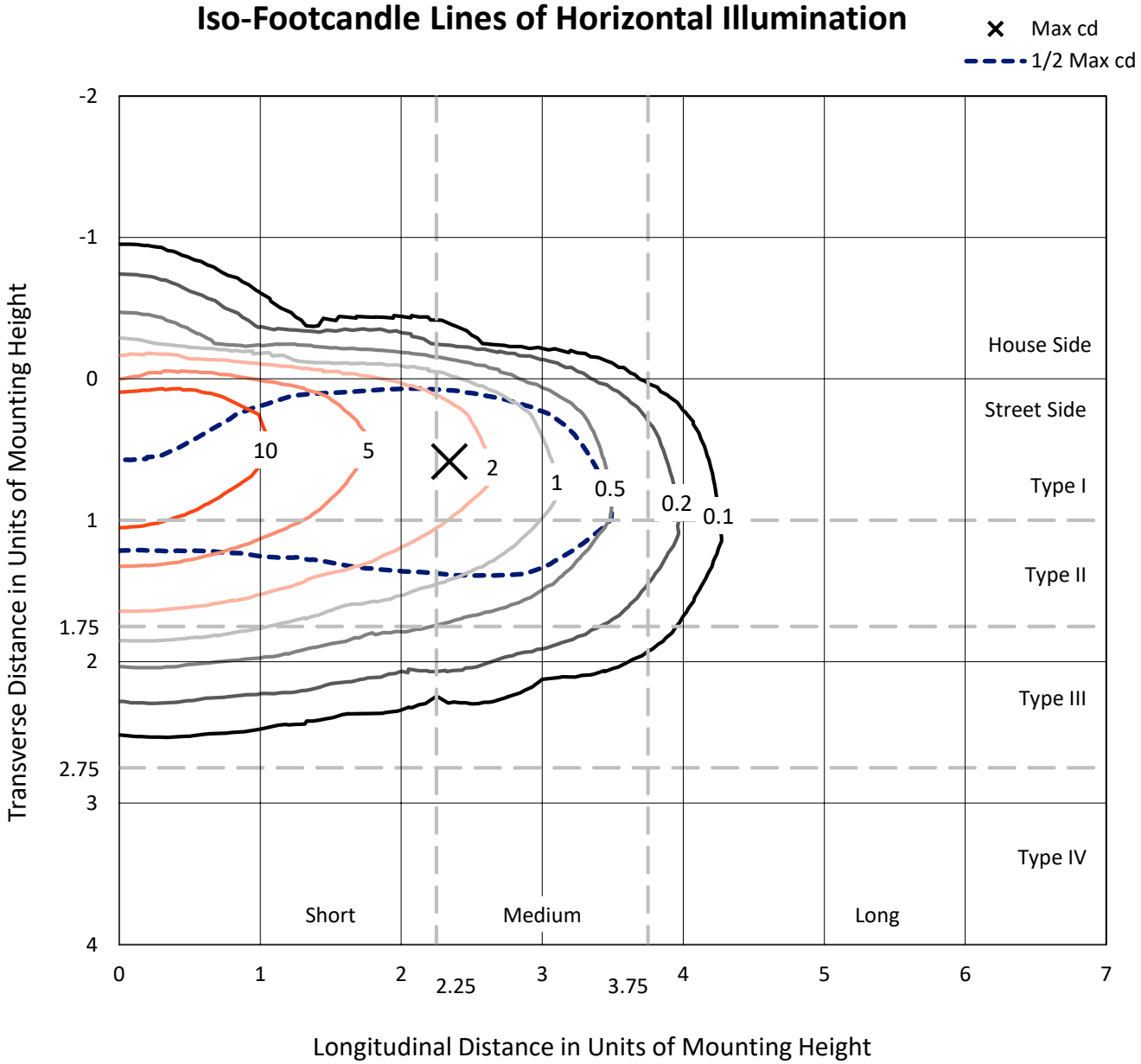
Scaled Data Report

REPORT NUMBER: P321452
CATALOG NUMBER: GLEON-SA8C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
Type II - Medium - N/A

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REPORT NUMBER: P321452
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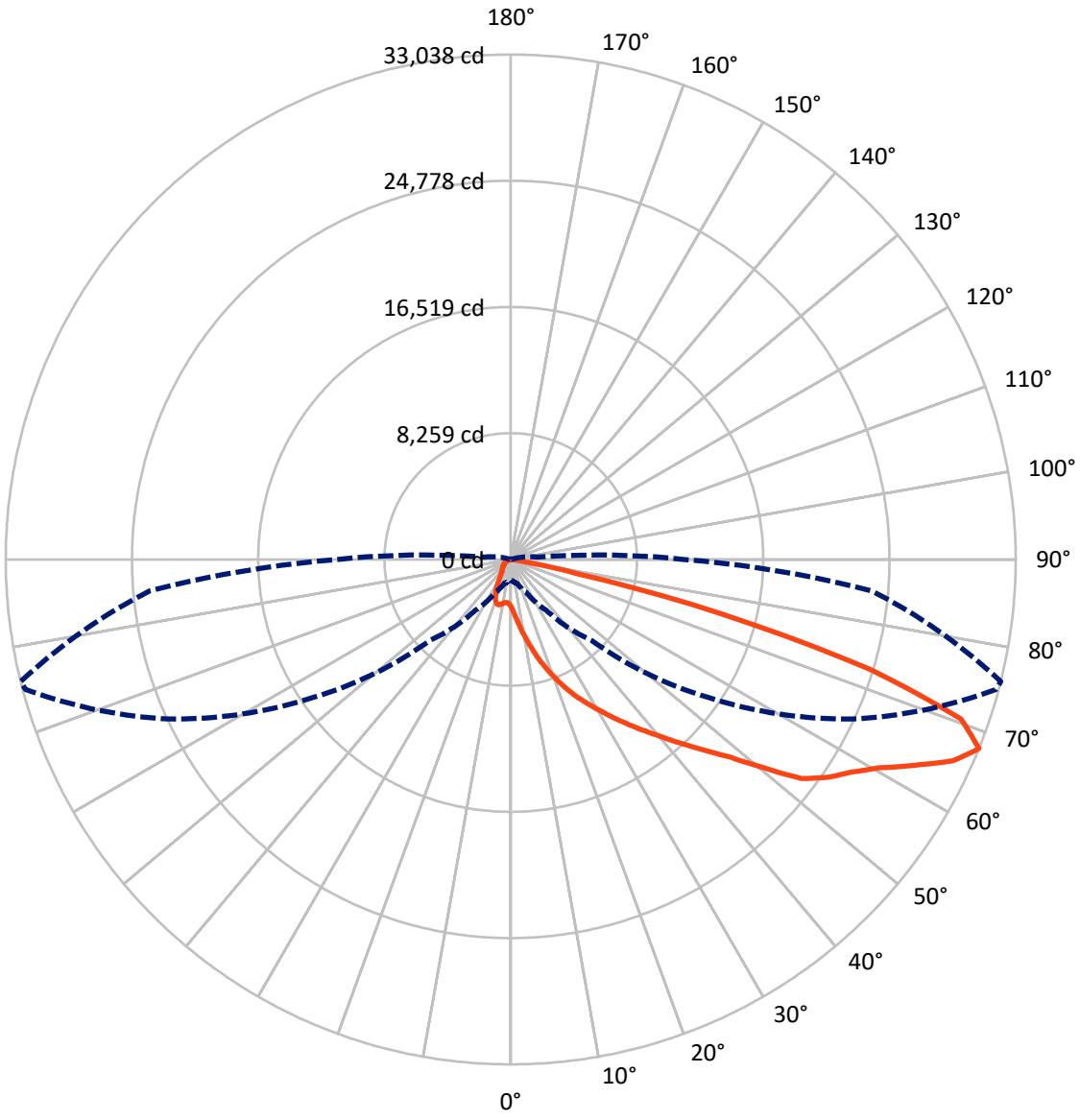
Luminous Intensity Polar Plot



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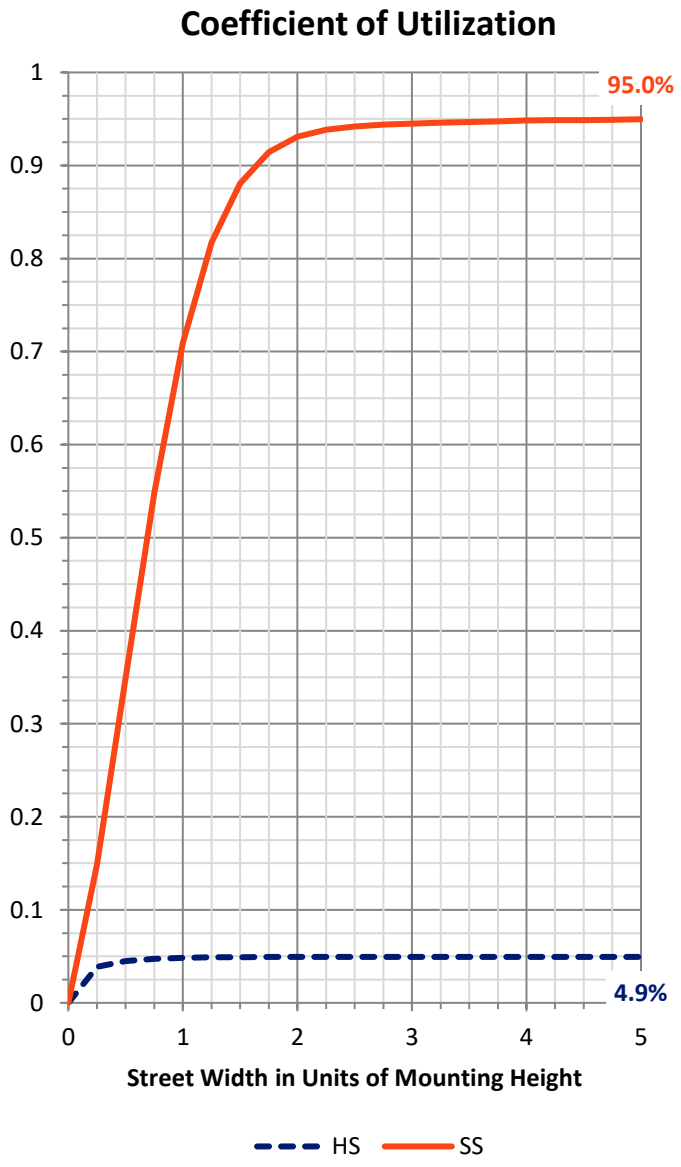
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.5	0.0	1805.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	34554.5	0.0	34554.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	36360.0	0.0	36360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	1.1
10°-20°	1520.4	4.2
20°-30°	3093.5	8.5
30°-40°	5369.3	14.8
40°-50°	7586.2	20.9
50°-60°	8603.1	23.7
60°-70°	7135.5	19.6
70°-80°	2584.7	7.1
80°-90°	83.8	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°	36360.0	100.0
0°-180°	36360.0	100.0



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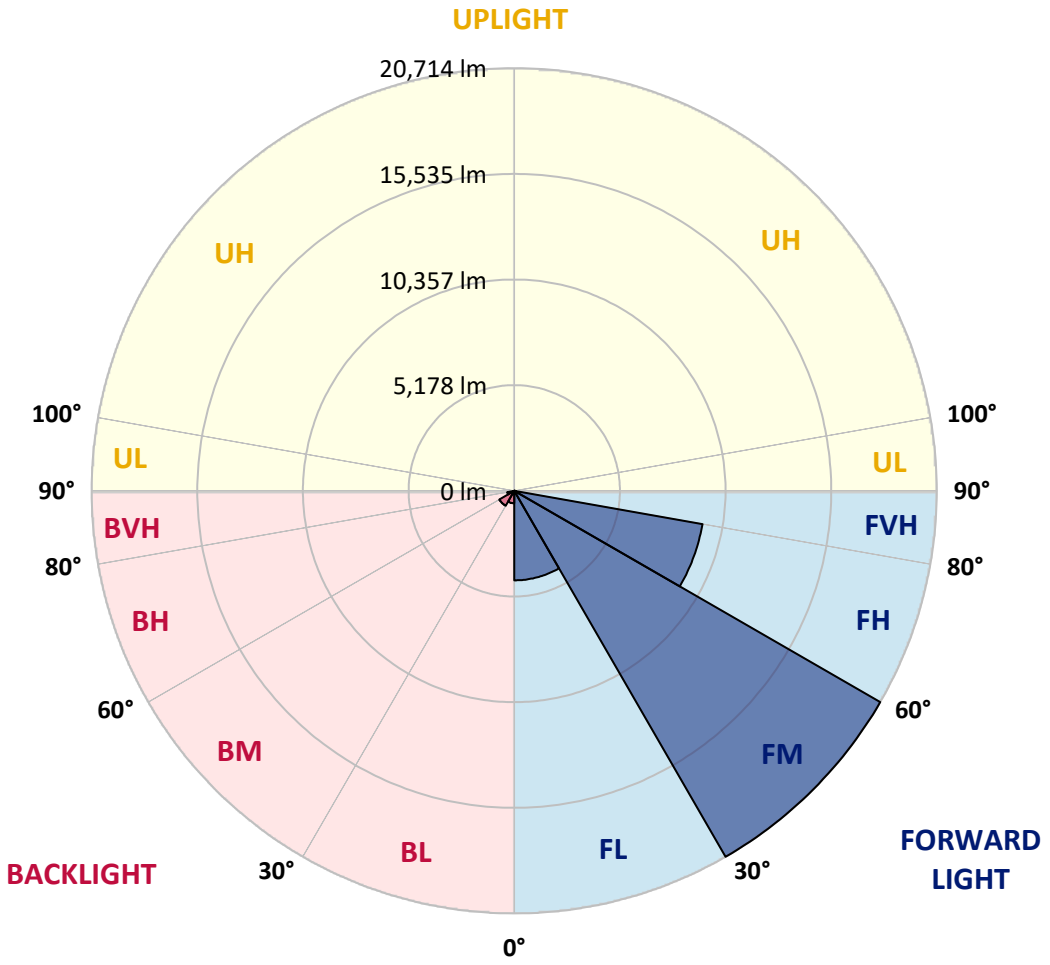
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4388.5	12.1			
FM	(30°-60°)	20713.6	57.0			
FH	(60°-80°)	9371.2	25.8			G4/12000
FVH	(80°-90°)	81.2	0.2			G1/100
BL	(0°-30°)	608.9	1.7	B2/1000		
BM	(30°-60°)	845.0	2.3	B1/1000		
BH	(60°-80°)	348.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G4
Type II Medium



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Scaled Data Report

REPORT NUMBER: P321452
CATALOG NUMBER: GLEON-SA8C-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	*3084.4*	3084.4
2.5°	4604.3	4500.7	4524.6	4457.7	4336.6	4088.1	3876.2	3675.4	3441.3	*3433.3*	3240.5
5°	6208.6	6121.0	6109.8	5974.4	5754.5	5332.3	4921.3	4452.9	3930.4	*3892.1*	3482.7
7.5°	7664.8	7594.7	7569.2	7408.2	6998.8	6587.8	6052.5	5364.2	4546.9	*4476.8*	3809.3
10°	8783.2	8749.7	8756.1	8641.4	8290.9	7908.5	7205.9	6328.1	5246.3	*5138.0*	4201.2
12.5°	9630.7	9638.7	9696.0	9625.9	9430.0	9146.4	8396.0	7355.7	6020.6	*5872.4*	4648.9
15°	10253.7	10293.5	10398.6	10486.3	10471.9	10226.6	9538.3	8399.2	6842.7	*6678.6*	5147.5
17.5°	10656.7	10701.3	10854.3	11048.6	11227.1	11169.7	10640.8	9406.1	7674.3	*7484.7*	5681.3
20°	11010.4	11063.0	11227.1	11483.6	11816.6	11888.2	11540.9	10382.7	8504.4	*8273.3*	6232.5
22.5°	11776.7	11775.1	11875.5	12025.3	12342.3	12527.1	12307.3	11289.2	9324.8	*9084.3*	6794.9
25°	13162.8	13110.2	13075.2	12957.3	13027.4	13142.1	13019.4	12136.8	10150.1	*9906.3*	7365.2
27.5°	14810.1	14842.0	14558.4	14241.4	13996.0	13878.1	13677.4	12922.2	10943.5	*10675.8*	7922.8
30°	16548.3	16557.8	16223.3	15818.6	15278.5	14830.8	14483.5	13672.6	11759.2	*11467.7*	8464.5
32.5°	18116.0	18053.8	17722.4	17171.2	16489.3	15985.9	15264.2	14510.6	12622.7	*12340.7*	9066.7
35°	19358.6	19285.3	18882.3	18380.4	17673.1	17166.4	16298.1	15347.0	13530.8	*13255.2*	9670.6
37.5°	20266.7	20180.7	19766.5	19250.3	18640.1	18345.4	17497.8	16256.7	14521.8	*14225.4*	10306.2
40°	20582.2	20507.3	20247.6	19870.0	19379.3	19312.4	18770.8	17303.4	15600.3	*15284.9*	11026.3
42.5°	20394.2	20320.9	20228.5	20101.1	19897.1	19960.9	19972.0	18496.7	16798.4	*16487.7*	11821.3
45°	19648.6	19583.3	19678.9	19865.3	20118.6	20434.0	21068.1	19779.2	18136.7	*17805.3*	12740.6
47.5°	18550.9	18503.1	18767.6	19232.8	19973.6	20843.5	22070.2	21127.1	19639.0	*19331.5*	13887.7
50°	16989.6	16981.6	17510.6	18359.7	19498.8	21041.0	23105.8	22659.7	21726.1	*21402.7*	15482.4
52.5°	14558.4	14574.3	15614.7	16973.7	18665.6	20907.2	23771.7	24628.8	24154.1	*23817.9*	16863.7
55°	12243.5	12339.1	13076.8	15036.4	17387.9	20410.1	24001.1	25548.1	25493.9	*25175.3*	17631.6
57.5°	9976.4	10150.1	10860.7	12691.2	15522.3	19264.6	23875.3	25946.4	26491.3	*26247.5*	18644.9
60°	7519.8	7599.4	8418.3	10129.4	13127.7	17174.4	22962.4	26163.1	27855.0	*27686.1*	20115.4
62.5°	4784.3	4983.4	5709.9	7360.5	10221.8	14271.6	21423.4	26159.9	29561.3	*29653.7*	22012.9
65°	2520.4	2753.0	3138.5	4561.3	7024.3	11029.5	19108.5	25914.5	31654.7	*31783.8*	23496.1
67.5°	*1359.0*	*1425.9*	*1629.8*	*2367.5*	*4073.7*	*7472.0*	*15707.1*	*24703.7*	*32867.1*	*33037.6*	*23703.2*
70°	994.1	1030.8	1107.3	1309.6	2050.4	4339.8	11461.3	21958.7	31304.2	*31240.5*	21060.1
72.5°	763.1	820.5	877.8	959.1	1178.9	2316.5	7135.8	17195.1	24977.8	*24557.2*	15742.1
75°	602.2	611.8	693.0	766.3	884.2	1319.1	3168.8	10014.7	15245.1	*14249.3*	8163.4
77.5°	481.1	487.5	535.3	599.0	710.6	866.7	981.4	3939.9	4867.1	*4343.0*	1771.6
80°	285.2	301.1	398.3	462.0	589.5	546.5	358.5	855.5	759.9	*688.3*	297.9
82.5°	159.3	172.1	224.6	364.8	411.0	261.3	178.4	231.0	178.4	*173.7*	84.4
85°	0.0	8.0	145.0	226.2	167.3	57.4	74.9	76.5	52.6	*49.4*	33.5
87.5°	0.0	0.0	44.6	43.0	6.4	9.6	17.5	25.5	20.7	*20.7*	17.5
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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Scaled Data Report

REPORT NUMBER: P321452
CATALOG NUMBER: GLEON-SA8C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4
2.5°	3144.9	3058.9	2896.4	2737.1	2603.2	2493.3	2394.5	2354.7	2322.8	2318.1	2292.6
5°	3285.1	3111.5	2800.8	2545.9	2375.4	2254.3	2150.8	2087.1	2037.7	2018.5	2001.0
7.5°	3497.0	3234.1	2788.1	2494.9	2291.0	2087.1	1895.9	1688.8	1559.7	1510.3	1481.6
10°	3755.1	3396.6	2835.8	2480.6	2123.7	1693.5	1376.5	1113.6	1006.9	971.8	962.3
12.5°	4056.2	3599.0	2918.7	2391.4	1766.8	1202.8	949.5	860.3	836.4	825.3	825.3
15°	4401.9	3820.4	2977.6	2133.3	1306.4	909.7	822.1	780.7	755.2	740.8	742.4
17.5°	4755.6	4037.1	2949.0	1758.9	963.9	809.3	744.0	699.4	664.4	650.0	646.8
20°	5112.5	4237.8	2789.6	1309.6	815.7	734.5	661.2	611.8	576.7	562.4	559.2
22.5°	5482.1	4408.3	2509.2	960.7	732.9	651.6	579.9	530.5	497.1	484.3	478.0
25°	5842.2	4546.9	2117.3	777.5	654.8	573.5	505.0	458.8	428.6	415.8	414.2
27.5°	6178.3	4634.5	1663.3	686.7	586.3	503.4	441.3	399.9	374.4	364.8	363.2
30°	6481.0	4642.5	1229.9	619.7	525.7	442.9	385.5	348.9	326.6	317.0	313.9
32.5°	6786.9	4575.6	895.4	559.2	470.0	390.3	334.6	305.9	290.0	282.0	282.0
35°	7075.3	4421.1	697.8	506.6	415.8	339.3	294.7	274.0	264.5	256.5	256.5
37.5°	7357.3	4199.6	592.7	460.4	364.8	296.3	259.7	246.9	239.0	231.0	231.0
40°	7644.0	3920.8	538.5	417.4	323.4	262.9	231.0	219.9	211.9	205.5	203.9
42.5°	7996.1	3599.0	503.4	377.6	286.8	232.6	203.9	191.2	184.8	178.4	175.2
45°	8404.0	3321.8	474.8	337.8	256.5	207.1	176.8	164.1	154.5	146.6	145.0
47.5°	8991.9	3121.0	436.5	294.7	227.8	180.0	152.9	138.6	124.3	116.3	114.7
50°	9742.2	2955.3	387.1	256.5	199.1	152.9	127.5	109.9	97.2	89.2	89.2
52.5°	10115.0	2738.7	342.5	223.0	167.3	129.0	103.6	82.8	76.5	68.5	68.5
55°	10264.8	2573.0	297.9	189.6	138.6	106.7	81.3	63.7	58.9	54.2	52.6
57.5°	10685.4	2525.2	259.7	160.9	114.7	84.4	62.1	47.8	44.6	38.2	38.2
60°	11362.5	2549.1	224.6	137.0	92.4	65.3	46.2	36.6	33.5	27.1	27.1
62.5°	12093.8	2518.8	189.6	117.9	71.7	47.8	31.9	27.1	27.1	15.9	14.3
65°	12234.0	2243.2	162.5	97.2	55.8	35.0	20.7	17.5	23.9	3.2	0.0
67.5°	*11354.5*	*1739.7*	*140.2*	*74.9*	*41.4*	*27.1*	*15.9*	*8.0*	*20.7*	*0.0*	*0.0*
70°	9079.5	1105.7	113.1	54.2	31.9	22.3	12.7	3.2	15.9	0.0	0.0
72.5°	6420.5	642.0	89.2	38.2	27.1	17.5	9.6	0.0	9.6	0.0	0.0
75°	3246.9	342.5	55.8	28.7	20.7	12.7	6.4	0.0	1.6	0.0	0.0
77.5°	702.6	159.3	35.0	20.7	14.3	8.0	3.2	0.0	0.0	0.0	0.0
80°	152.9	70.1	22.3	12.7	8.0	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	55.8	36.6	11.2	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.3	19.1	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	6.4	1.6	1.6	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

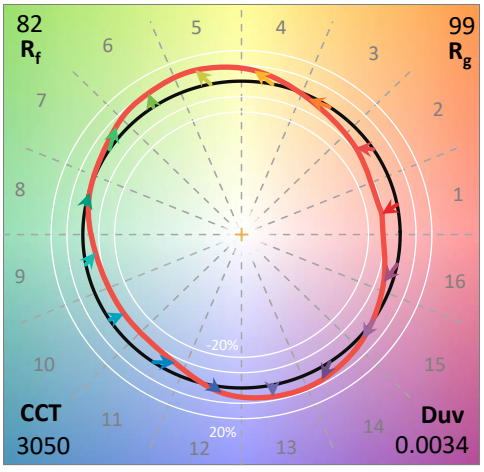
Test Information

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

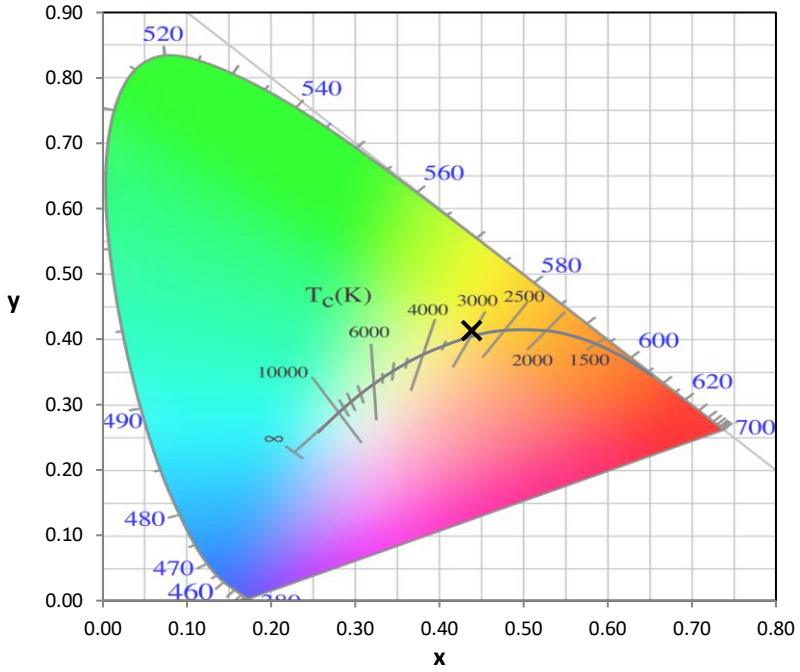
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

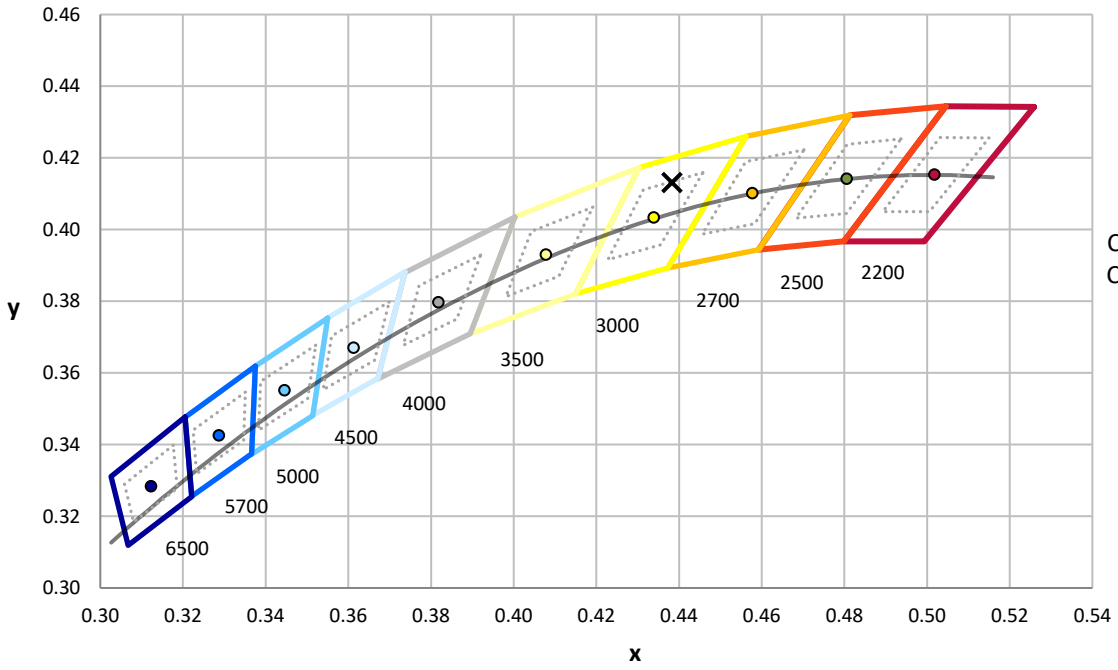
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

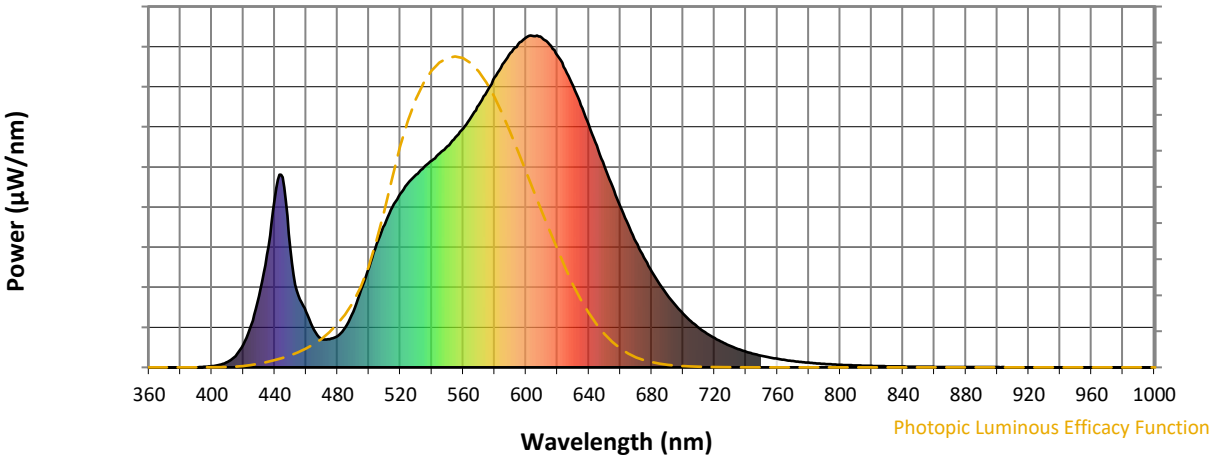


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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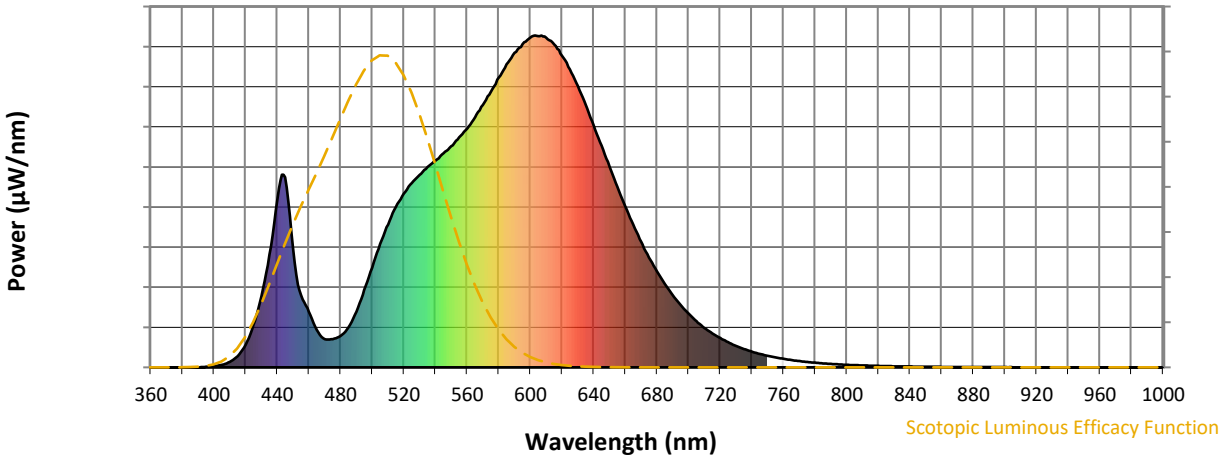
Scotopic Flux vs. Wavelength



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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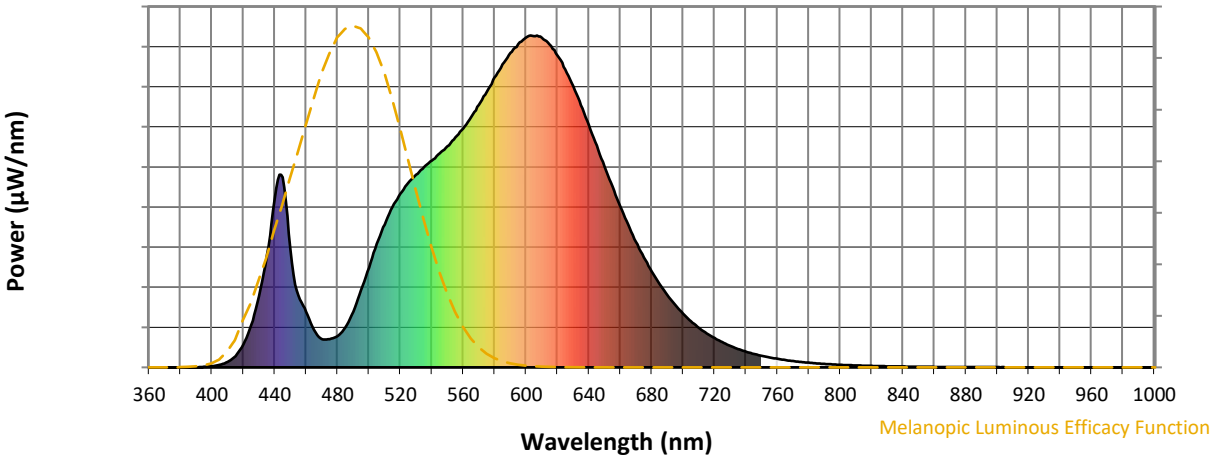
Melanopic Flux vs. Wavelength



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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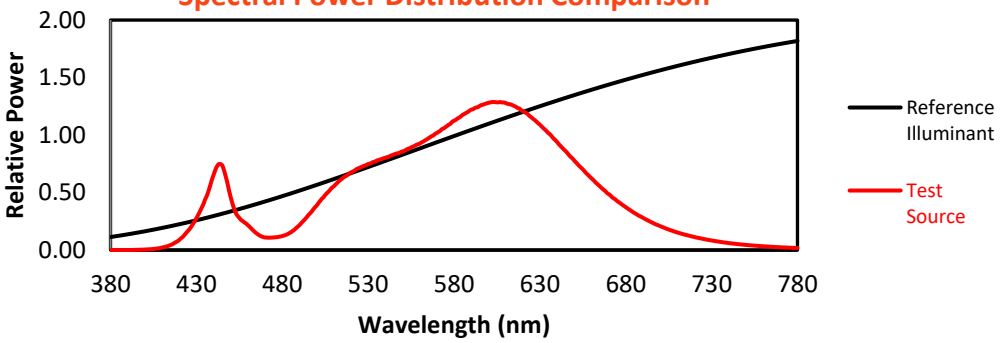
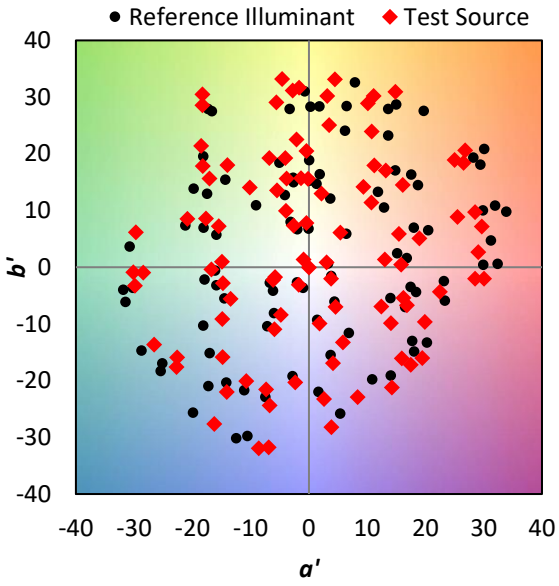
Summary

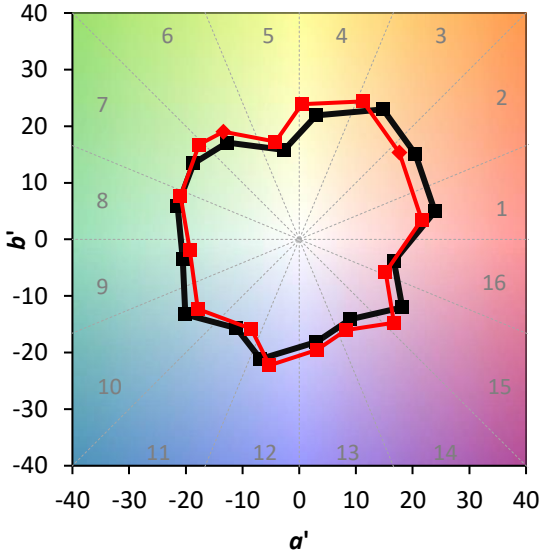
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

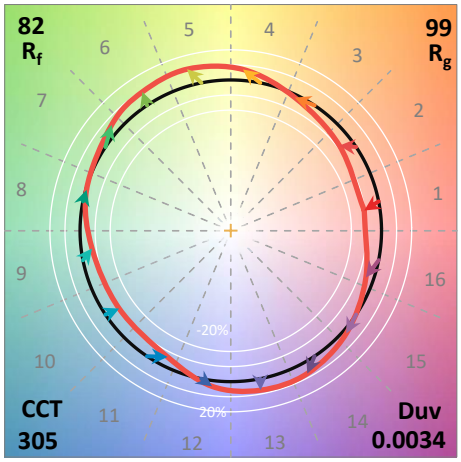
Spectral Power Distribution Comparison

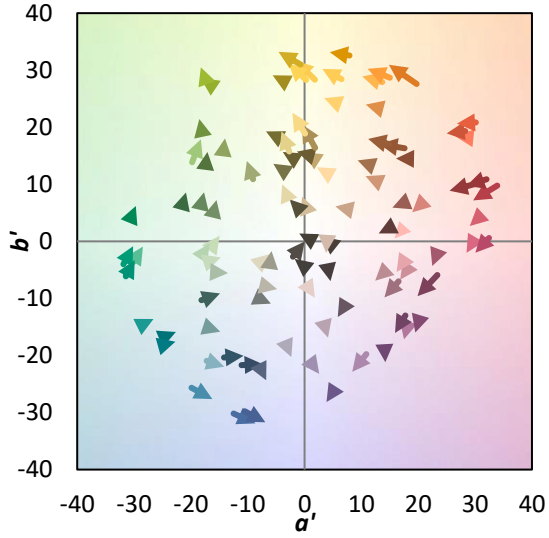


Color Vector Graphics









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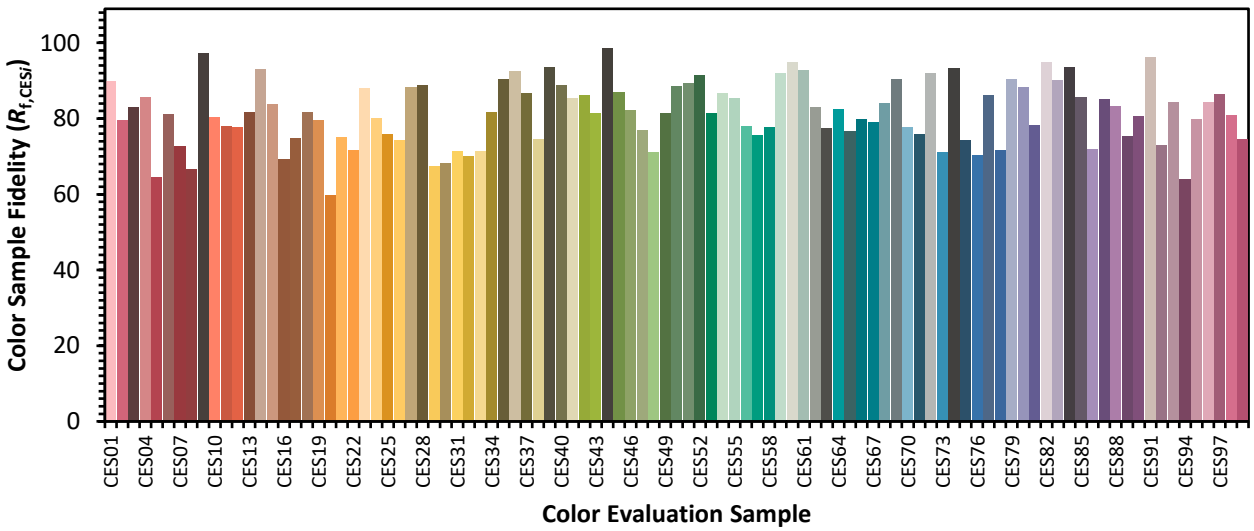
Individual Sample Fidelity Index ($R_{f,i}$)

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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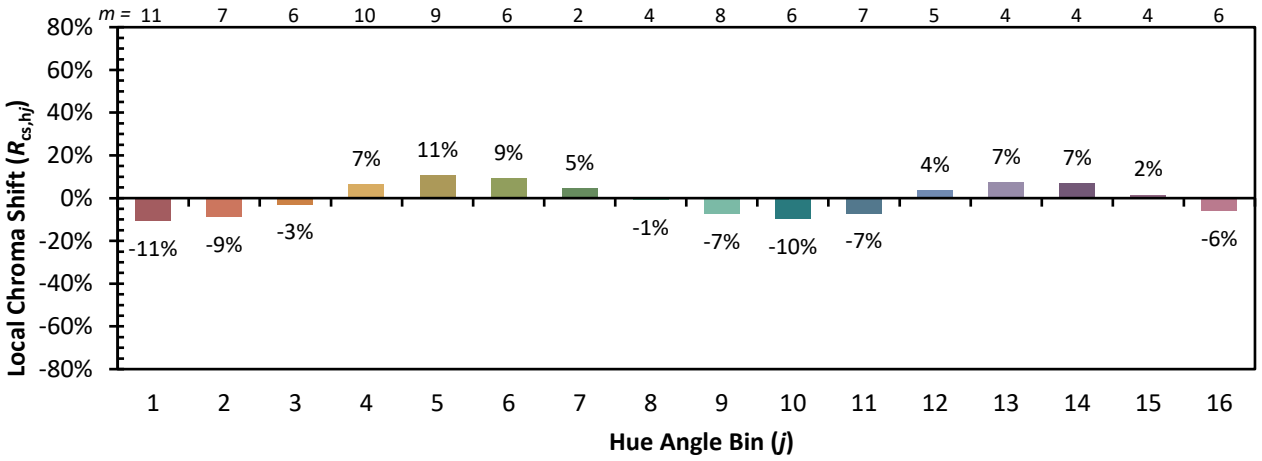
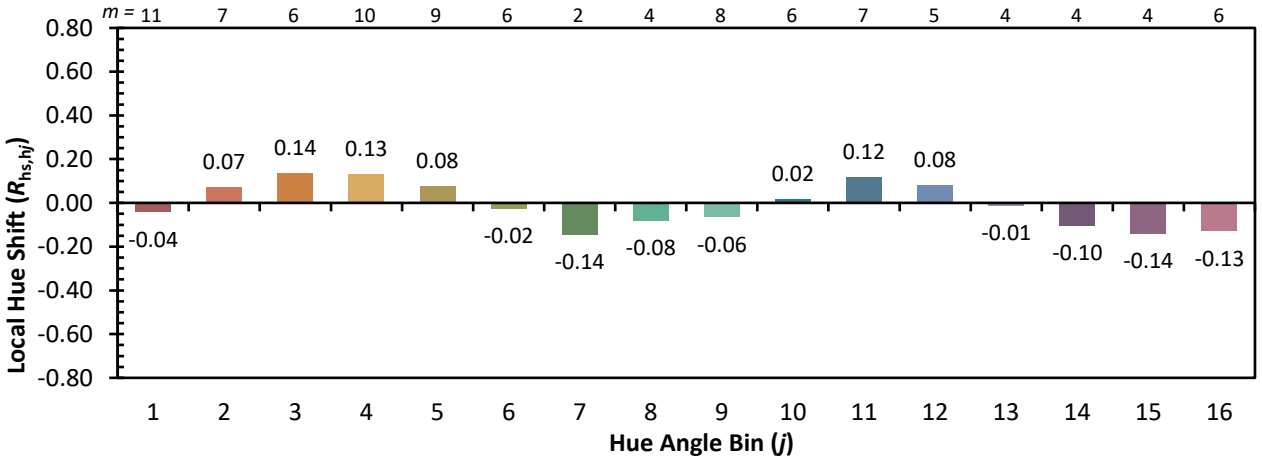
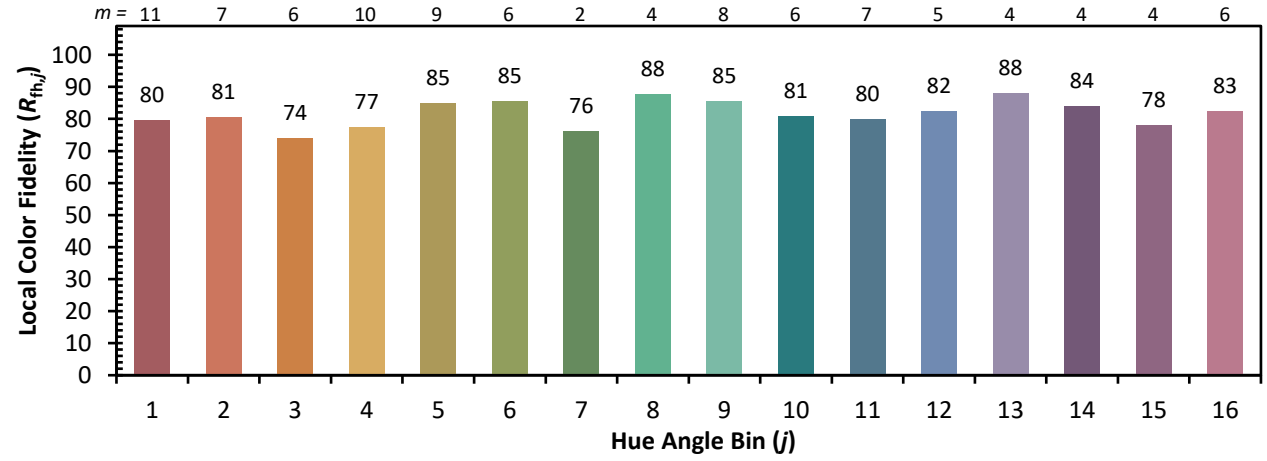
Color Rendition by Hue-Angle Bin







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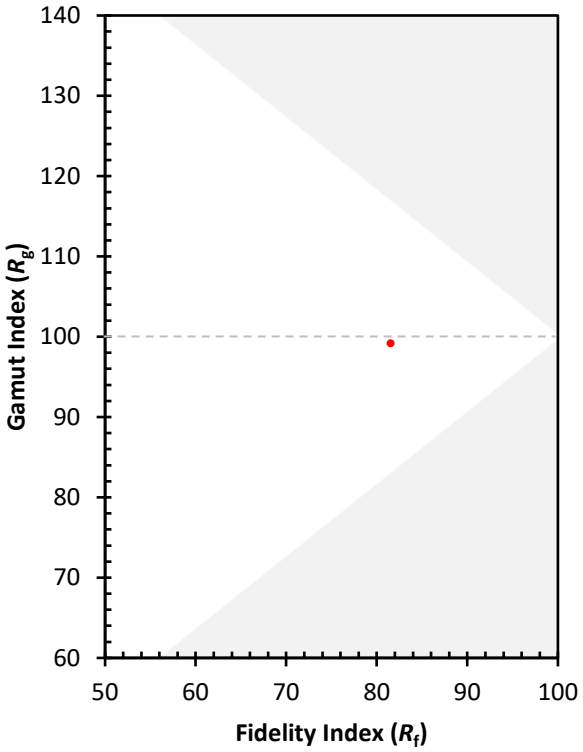
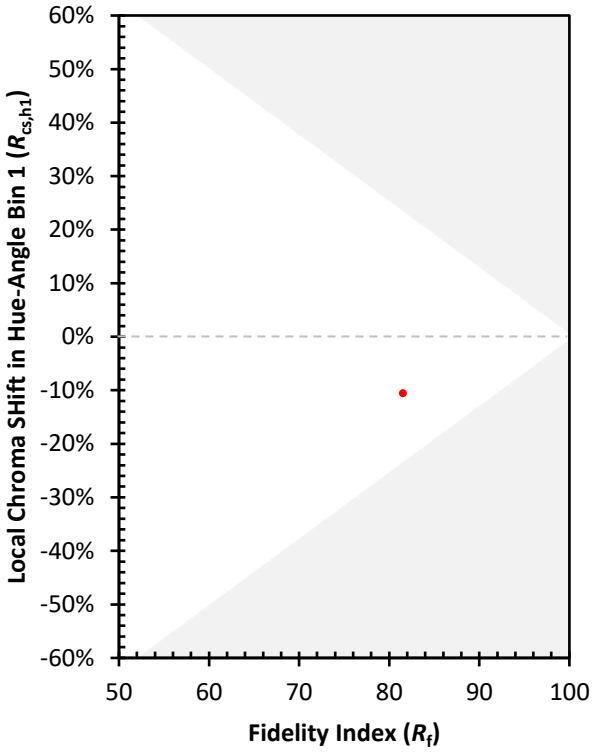
Measure Comparisons





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