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: P321784

Luminaire Tested: **GLEON-SA0D-830-U-T3R-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:	P321784
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0D-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	46936 lumens
Efficiency:	N/A
Efficacy:	73.3 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	640
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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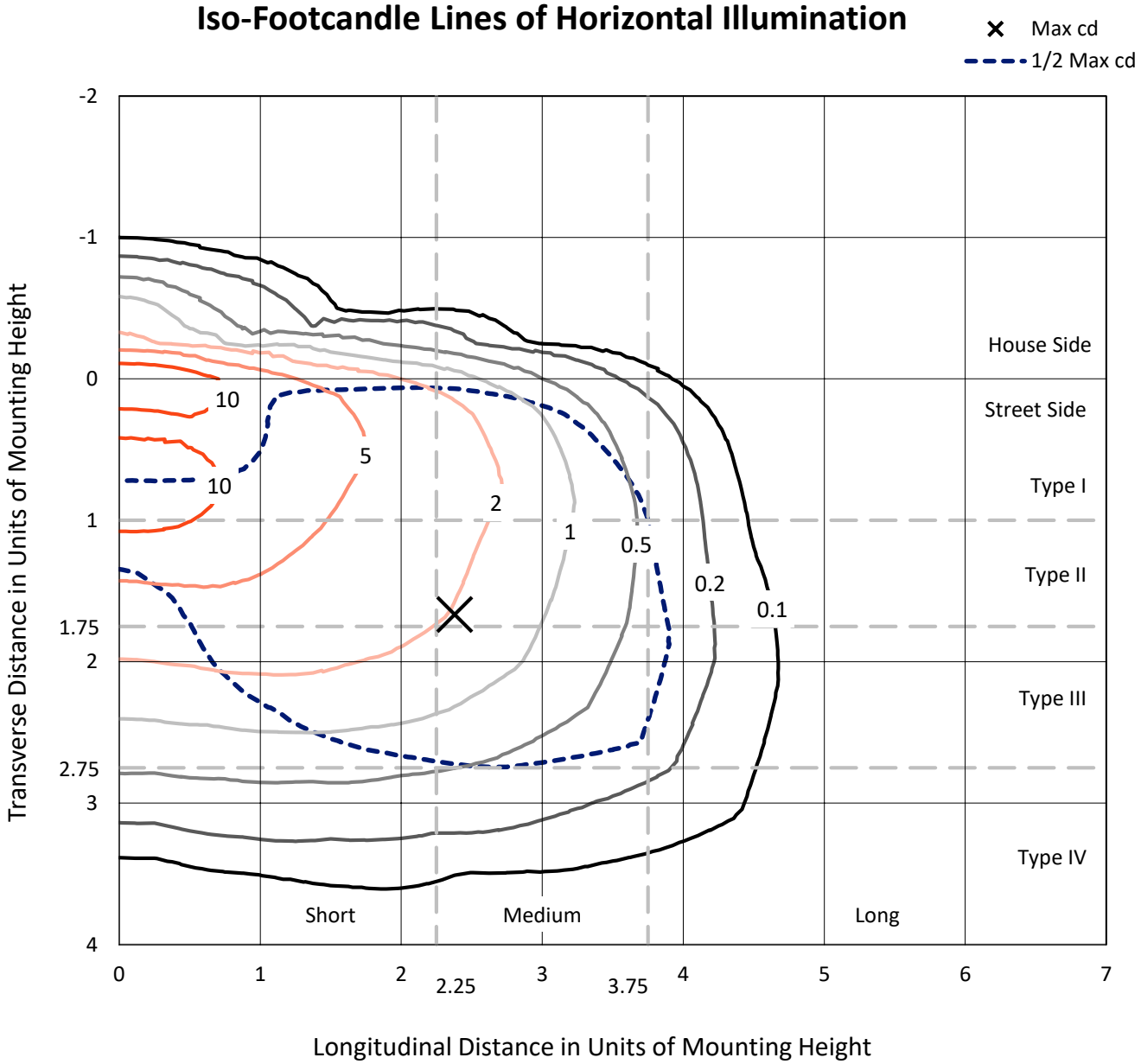
Scaled Data Report

REPORT NUMBER: P321784
CATALOG NUMBER: GLEON-SA0D-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type III - Medium - N/A

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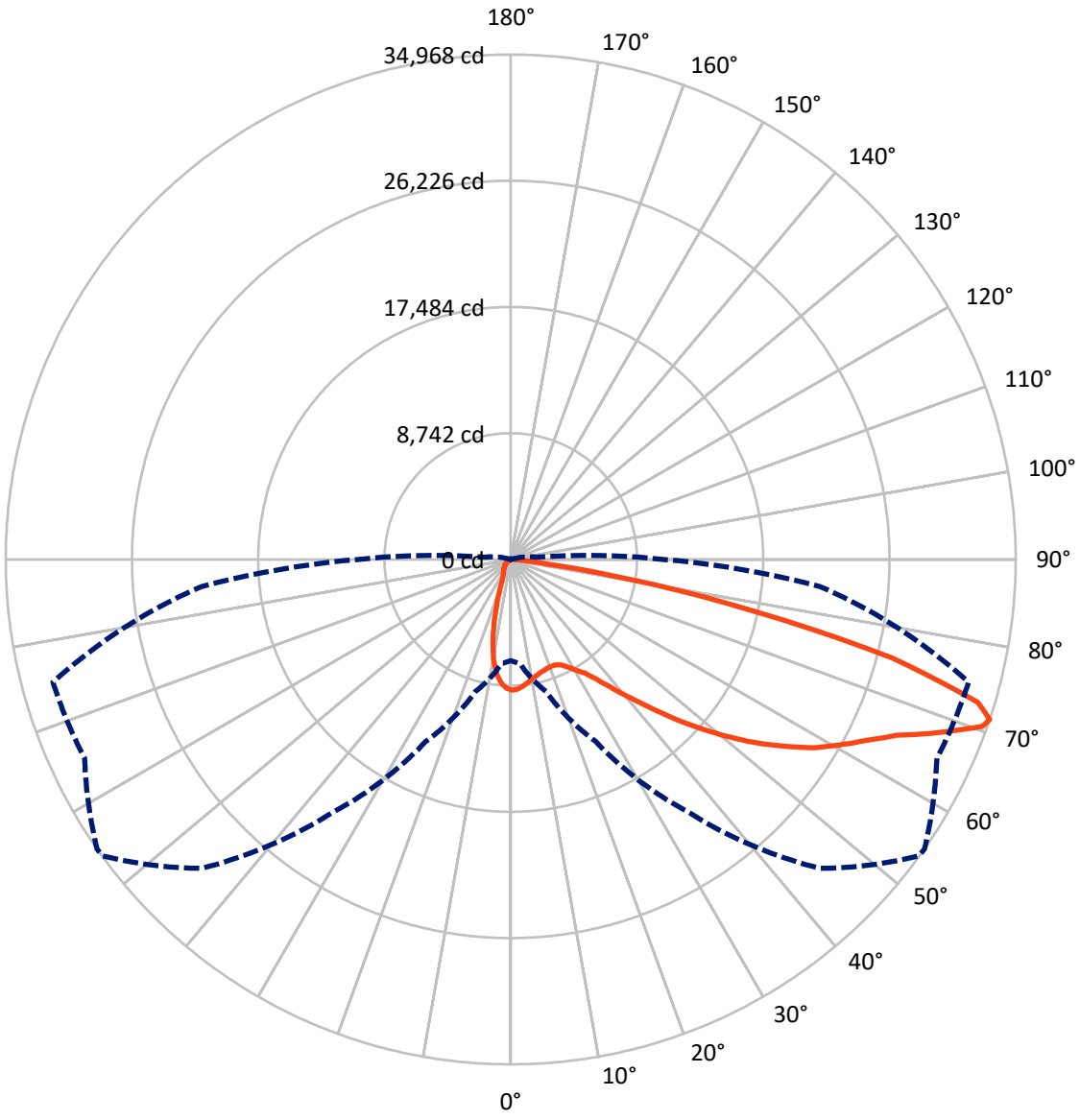
Luminous Intensity Polar Plot



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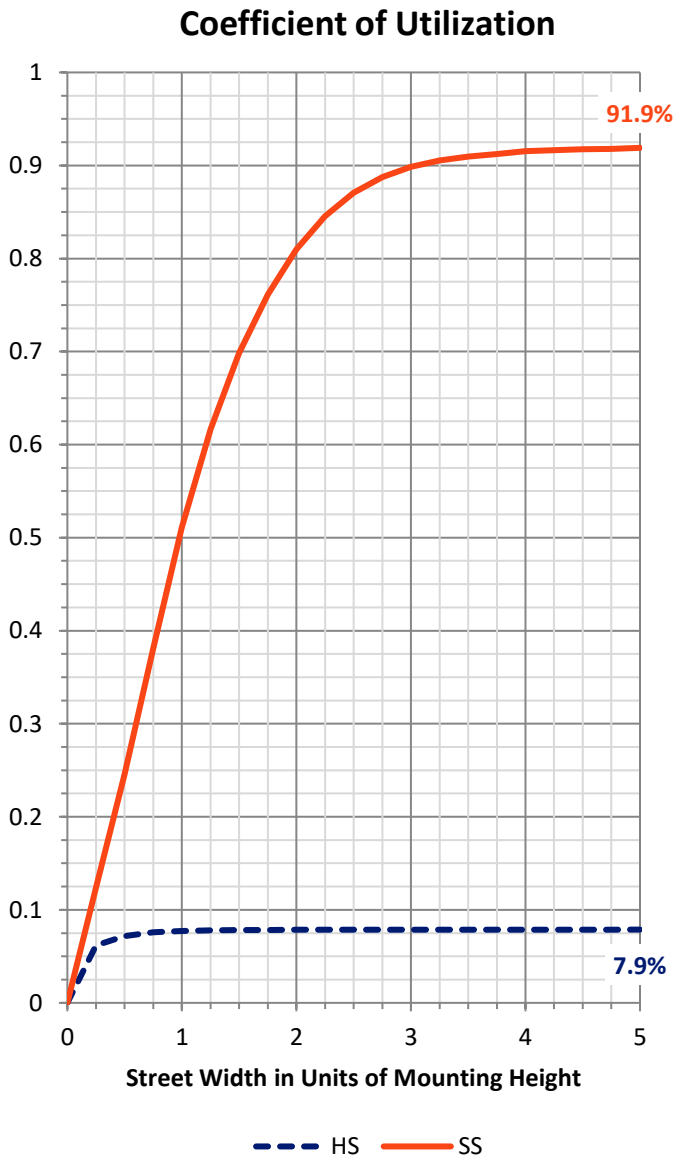
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3716.0	0.0	3716.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	43219.9	0.0	43219.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	46936.0	0.0	46936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.8	1.6
10°-20°	1742.4	3.7
20°-30°	2800.0	6.0
30°-40°	4757.4	10.1
40°-50°	7384.1	15.7
50°-60°	9927.7	21.2
60°-70°	12144.9	25.9
70°-80°	7100.8	15.1
80°-90°	306.9	0.7
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°	46936.0	100.0
0°-180°	46936.0	100.0



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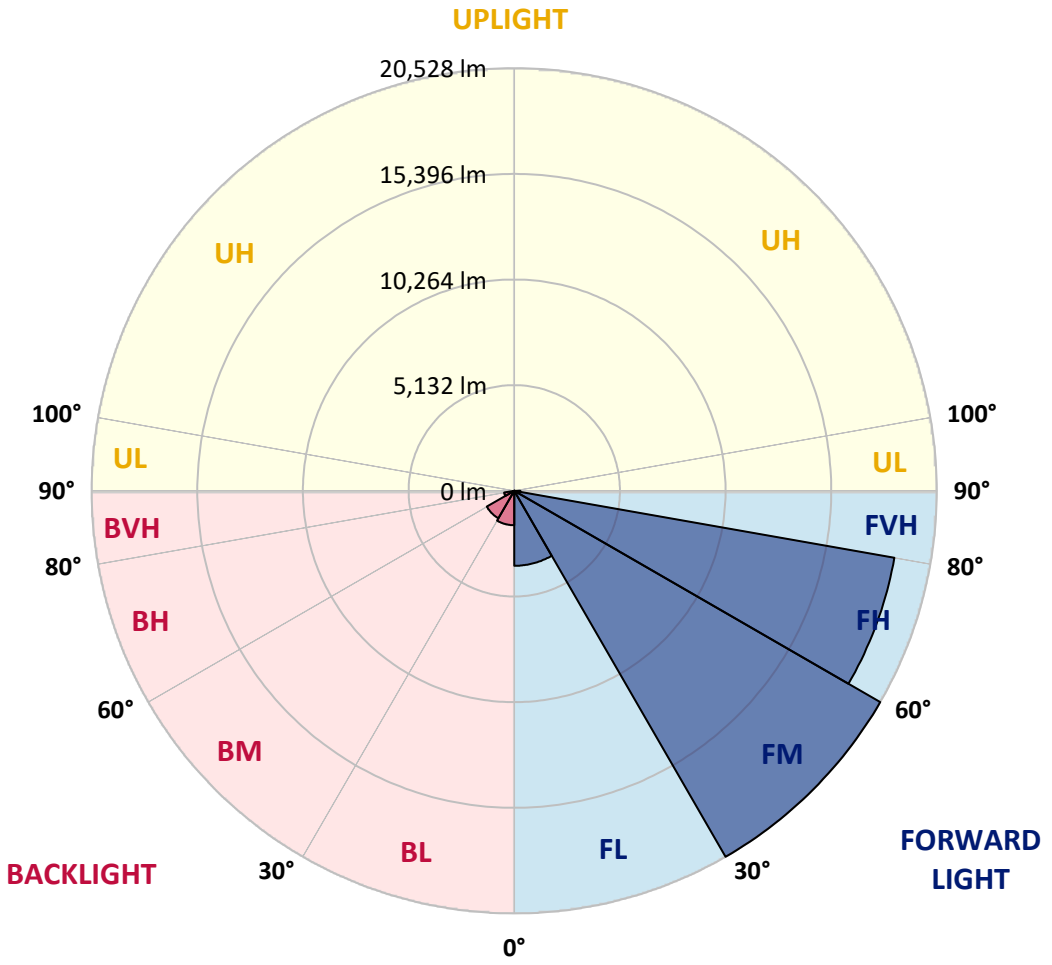
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3641.6	7.8			
FM	(30°-60°)	20528.4	43.7			
FH	(60°-80°)	18747.8	39.9			G5
FVH	(80°-90°)	302.1	0.6			G3/500
BL	(0°-30°)	1672.6	3.6	B3/2500		
BM	(30°-60°)	1540.7	3.3	B2/2500		
BH	(60°-80°)	497.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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REPORT NUMBER: P321784
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	*9051.8*	9051.8	9051.8	9051.8
2.5°	8786.2	8796.8	8834.7	8851.6	8891.6	8959.0	8992.8	*8994.9*	9049.7	9070.7	9087.6
5°	8164.5	8227.7	8291.0	8358.4	8480.6	8642.9	8803.1	*8817.8*	8994.9	9125.5	9195.1
7.5°	7629.2	7686.1	7762.0	7869.5	8042.3	8297.3	8564.9	*8596.6*	8931.6	9228.8	9384.8
10°	7079.1	7125.5	7235.1	7393.2	7631.3	7972.7	8333.1	*8385.8*	8874.7	9367.9	9641.9
12.5°	6491.1	6518.5	6651.3	6878.9	7228.8	7662.9	8137.1	*8206.7*	8838.9	9528.1	9945.4
15°	6044.4	6057.0	6183.4	6419.5	6819.9	7384.7	7985.4	*8069.7*	8847.3	9719.9	10276.2
17.5°	5930.5	5936.9	6004.3	6166.6	6520.7	7136.0	7865.2	*7968.5*	8872.6	9907.4	10609.2
20°	6392.1	6347.8	6278.3	6253.0	6404.7	6986.4	7793.6	*7909.5*	8906.4	10073.9	10908.5
22.5°	7658.7	7528.0	7239.3	6853.6	6619.7	6996.9	7812.6	*7928.5*	9013.8	10278.3	11254.1
25°	9538.6	9357.4	8866.3	8107.6	7378.4	7300.4	7970.6	*8088.6*	9222.5	10522.8	11585.0
27.5°	11677.7	11498.6	10898.0	9814.7	8571.3	7901.1	8333.1	*8442.7*	9532.3	10739.9	11837.9
30°	13726.2	13675.7	12967.5	11736.7	10071.8	8874.7	8801.0	*8893.7*	9762.0	10870.6	12038.1
32.5°	15462.8	15382.8	14813.7	13616.7	11789.4	10044.4	9351.0	*9378.4*	9934.8	11039.2	12299.5
35°	17073.0	16973.9	16474.4	15342.7	13551.3	11473.3	10198.3	*10158.2*	10312.1	11378.5	12678.8
37.5°	18478.7	18569.3	18015.0	16938.1	15132.0	12959.1	11340.5	*11220.4*	10902.2	11930.6	13228.9
40°	19654.7	19654.7	19366.0	18468.2	16839.0	14495.5	12632.4	*12474.4*	11789.4	12782.1	13926.5
42.5°	20078.3	20168.9	20276.4	19768.5	18367.0	16093.0	14071.9	*13907.5*	13039.2	13989.7	14807.4
45°	20103.6	20246.9	20797.0	20794.8	19747.4	17679.9	15694.7	*15616.7*	14640.9	15540.8	15899.1
47.5°	19747.4	19926.6	20832.8	21347.0	20841.2	19157.3	17469.2	*17372.2*	16522.9	17441.8	17041.4
50°	19197.4	19395.5	20449.2	21564.1	21585.2	20442.9	19338.6	*19193.1*	18594.6	19614.6	18221.6
52.5°	18213.1	18596.7	20105.7	21614.7	22074.1	21553.6	21117.3	*21054.1*	20912.9	21707.4	19161.5
55°	16107.7	16533.5	19243.7	21631.5	22527.2	22537.8	22784.3	*22801.2*	23085.7	23663.2	19861.2
57.5°	15113.0	15353.2	17739.0	21711.6	23199.5	23654.7	24483.0	*24613.7*	25054.1	25519.9	20660.0
60°	14487.1	14771.6	16997.1	21602.0	24255.4	25119.5	26057.3	*26101.6*	26573.7	27435.6	21741.1
62.5°	13987.6	14267.9	16529.2	21180.5	25441.9	26881.4	27595.8	*27600.0*	27954.1	29718.1	22969.8
65°	12754.7	12990.7	15583.0	20706.3	26225.9	28624.3	29383.0	*29355.6*	29644.3	32124.8	24396.6
67.5°	10971.7	11153.0	13650.4	18908.6	25930.9	30209.1	32080.6	*31990.0*	31640.1	34205.0	24957.2
70°	8482.7	8548.1	10758.9	15757.9	23165.8	30818.2	34687.6	*34641.2*	32864.6	33831.9	22902.4
71°	*7011.7*	*7226.7*	*9481.7*	*13907.5*	*21313.3*	*30255.5*	*34940.5*	*34967.9*	*32556.9*	*32816.1*	*21488.2*
72.5°	4071.7	4255.1	6872.6	10680.9	18095.1	27907.7	33629.6	*33827.7*	31119.6	29848.7	18354.3
75°	872.5	933.6	2548.0	5169.7	9953.8	19559.8	26544.1	*27250.2*	25363.9	20305.9	11062.3
77.5°	607.0	655.4	1091.7	2345.7	3289.8	9665.1	16489.2	*17285.8*	15153.0	7631.3	3540.6
80°	480.5	535.3	851.4	1159.1	889.4	3117.0	7724.0	*8210.9*	5053.8	1702.9	596.4
82.5°	267.7	318.2	663.9	625.9	341.4	592.2	2162.3	*2444.7*	1011.6	343.5	141.2
85°	78.0	94.8	427.8	455.2	145.4	113.8	368.8	*457.3*	191.8	90.6	63.2
87.5°	0.0	0.0	206.5	174.9	42.2	16.9	33.7	*37.9*	37.9	37.9	42.2
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: P321784
CATALOG NUMBER: GLEON-SA0D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8	9051.8
2.5°	9087.6	9102.4	9049.7	8980.1	8906.4	8815.7	8720.9	8647.1	8645.0	8609.2	8573.4
5°	9199.3	9190.9	9045.5	8824.2	8562.8	8291.0	8031.7	7738.8	7641.8	7521.7	7481.7
7.5°	9405.8	9346.8	9039.1	8554.4	7981.2	7412.1	6824.1	6231.9	5979.0	5751.4	5711.4
10°	9665.1	9553.4	8999.1	8149.8	7098.1	6048.6	5161.3	4356.2	4002.2	3730.3	3717.7
12.5°	9934.8	9764.1	8887.4	7538.6	5941.1	4465.8	3443.7	2651.3	2356.2	2166.5	2183.4
15°	10217.2	9962.2	8647.1	6714.5	4623.9	3030.6	2115.9	1650.2	1532.2	1483.7	1496.3
17.5°	10506.0	10099.2	8312.0	5721.9	3323.6	1955.8	1464.7	1334.1	1334.1	1344.6	1348.8
20°	10756.8	10173.0	7818.9	4609.1	2252.9	1424.7	1281.4	1262.4	1272.9	1289.8	1291.9
22.5°	11005.4	10177.2	7176.1	3481.6	1576.4	1247.6	1220.3	1211.8	1218.1	1237.1	1239.2
25°	11207.8	10126.6	6371.0	2476.3	1258.2	1176.0	1163.3	1159.1	1163.3	1186.5	1186.5
27.5°	11290.0	9943.3	5388.9	1740.8	1127.5	1095.9	1091.7	1095.9	1102.2	1119.1	1121.2
30°	11298.4	9622.9	4318.3	1260.3	1022.1	988.4	996.9	1011.6	1005.3	1001.1	1005.3
32.5°	11319.5	9252.0	3275.1	1036.9	933.6	880.9	870.4	870.4	845.1	830.4	821.9
35°	11389.0	8815.7	2375.2	931.5	843.0	781.9	741.8	695.5	647.0	621.7	615.4
37.5°	11498.6	8358.4	1700.8	862.0	762.9	693.4	617.5	535.3	465.8	446.8	446.8
40°	11698.8	7886.3	1258.2	807.2	699.7	613.3	499.5	392.0	328.8	318.2	318.2
42.5°	12014.9	7388.9	1003.2	758.7	644.9	531.1	381.5	284.5	238.1	231.8	229.7
45°	12343.7	6841.0	876.7	712.3	585.9	436.3	282.4	210.8	183.4	177.0	177.0
47.5°	12672.5	6257.2	815.6	668.1	529.0	339.3	210.8	166.5	153.8	153.8	156.0
50°	12950.7	5648.1	771.4	619.6	455.2	257.1	166.5	141.2	137.0	145.4	147.5
52.5°	13020.2	5049.6	716.6	558.5	364.6	196.0	137.0	124.3	124.3	124.3	124.3
55°	12978.1	4586.0	644.9	482.6	269.8	156.0	118.0	109.6	107.5	107.5	107.5
57.5°	13121.4	4312.0	516.3	375.1	193.9	126.5	103.3	96.9	92.7	90.6	90.6
60°	13410.1	4132.8	368.8	269.8	145.4	105.4	88.5	82.2	75.9	71.7	71.7
62.5°	13793.7	3976.9	274.0	200.2	111.7	84.3	73.8	67.4	59.0	54.8	54.8
65°	14088.7	3698.7	208.6	149.6	84.3	67.4	56.9	54.8	42.2	37.9	35.8
67.5°	13637.7	3087.5	168.6	109.6	63.2	52.7	44.3	42.2	25.3	21.1	21.1
70°	11696.7	2149.7	134.9	80.1	46.4	42.2	35.8	27.4	19.0	16.9	16.9
71°	*10607.1*	*1795.6*	*122.2*	*67.4*	*40.0*	*40.0*	*33.7*	*23.2*	*16.9*	*14.8*	*14.8*
72.5°	8811.5	1275.0	103.3	52.7	35.8	42.2	35.8	21.1	16.9	14.8	12.6
75°	5114.9	533.2	71.7	35.8	27.4	50.6	46.4	19.0	12.6	10.5	10.5
77.5°	1538.5	196.0	40.0	23.2	21.1	44.3	52.7	16.9	6.3	2.1	2.1
80°	280.3	84.3	25.3	14.8	14.8	27.4	40.0	8.4	0.0	0.0	0.0
82.5°	99.1	42.2	14.8	8.4	6.3	12.6	19.0	0.0	0.0	0.0	0.0
85°	56.9	29.5	8.4	4.2	0.0	2.1	4.2	0.0	0.0	0.0	0.0
87.5°	37.9	8.4	0.0	0.0	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

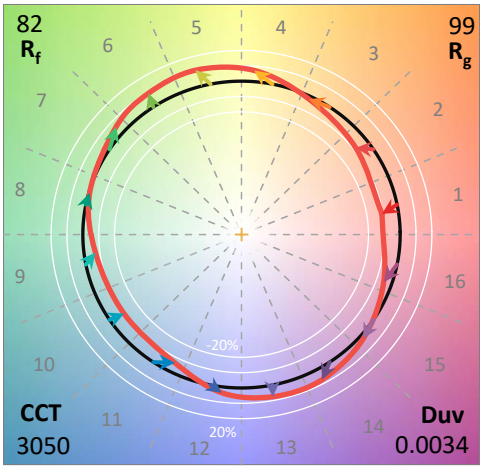
Test Information

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

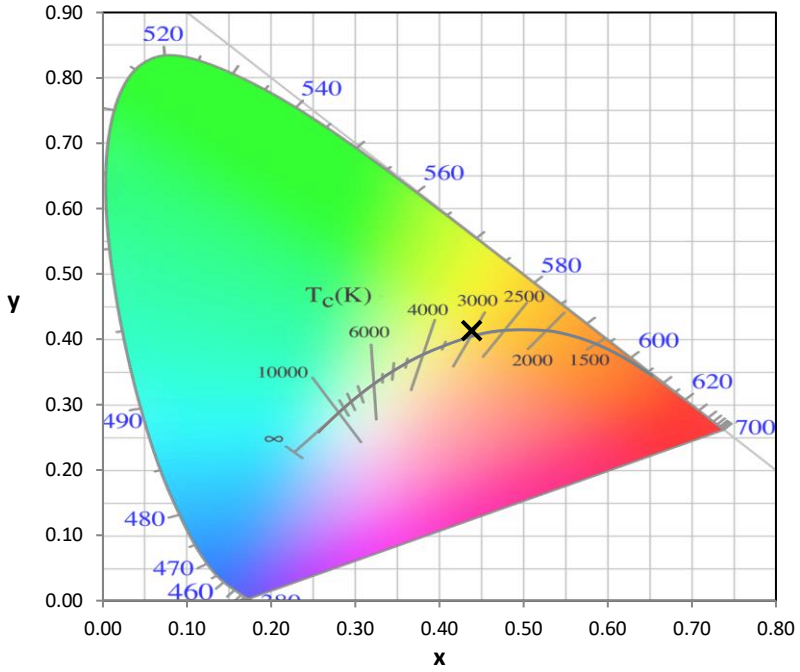
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

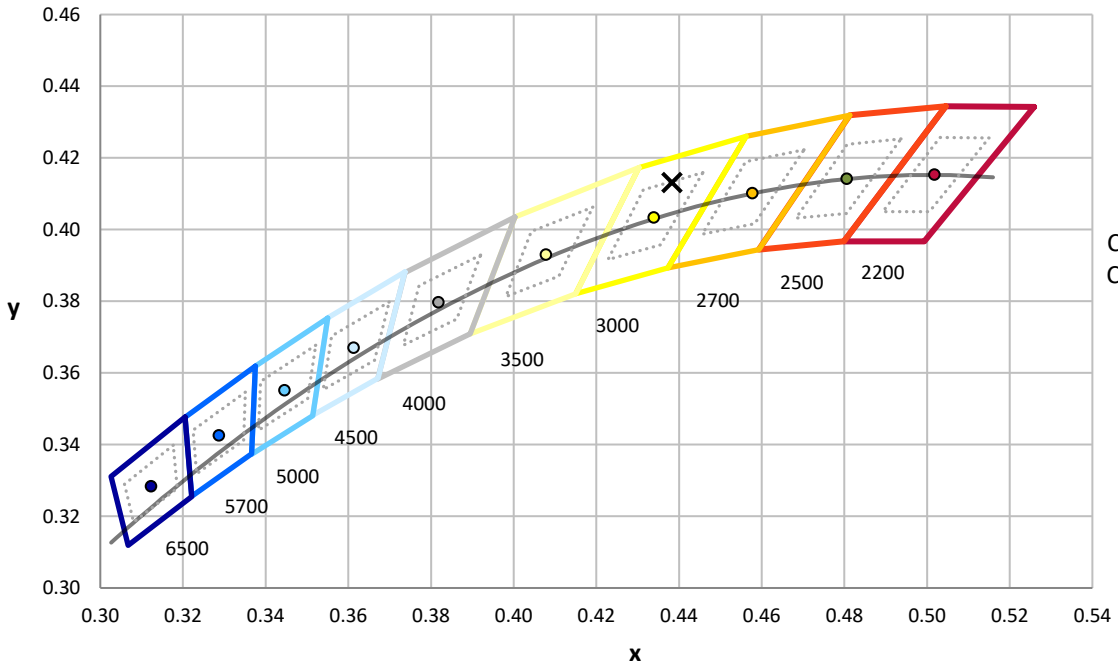
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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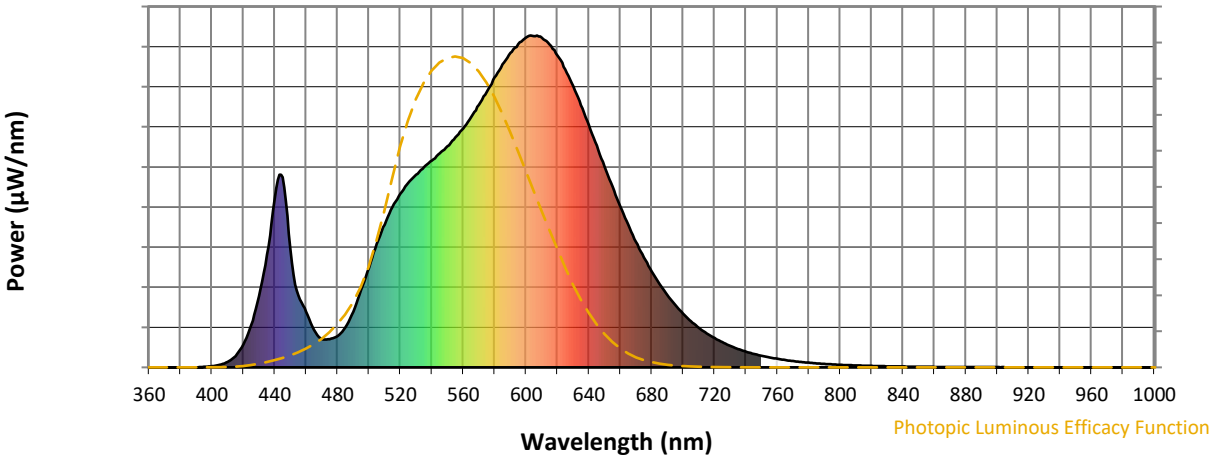
Photopic Flux vs. Wavelength



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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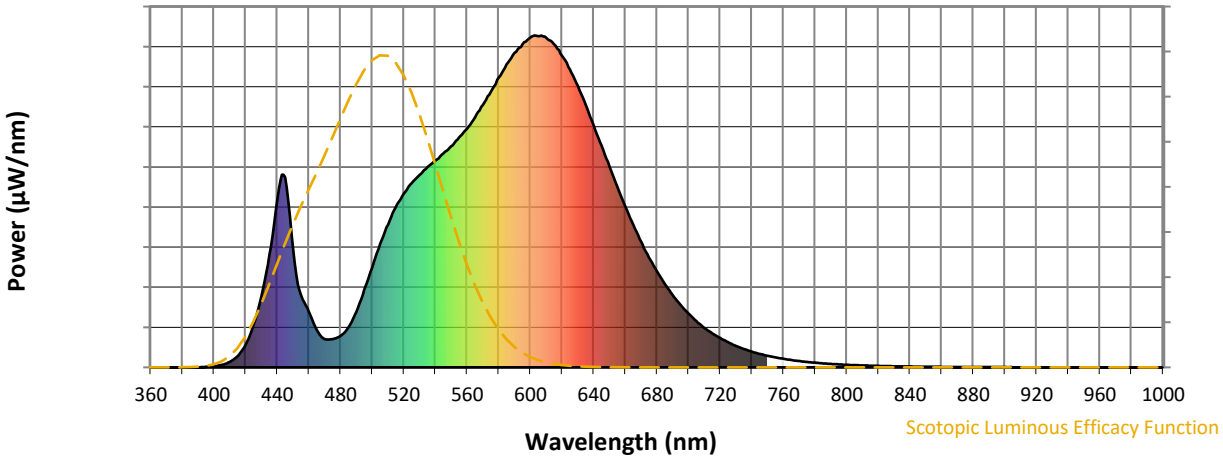
Scotopic Flux vs. Wavelength



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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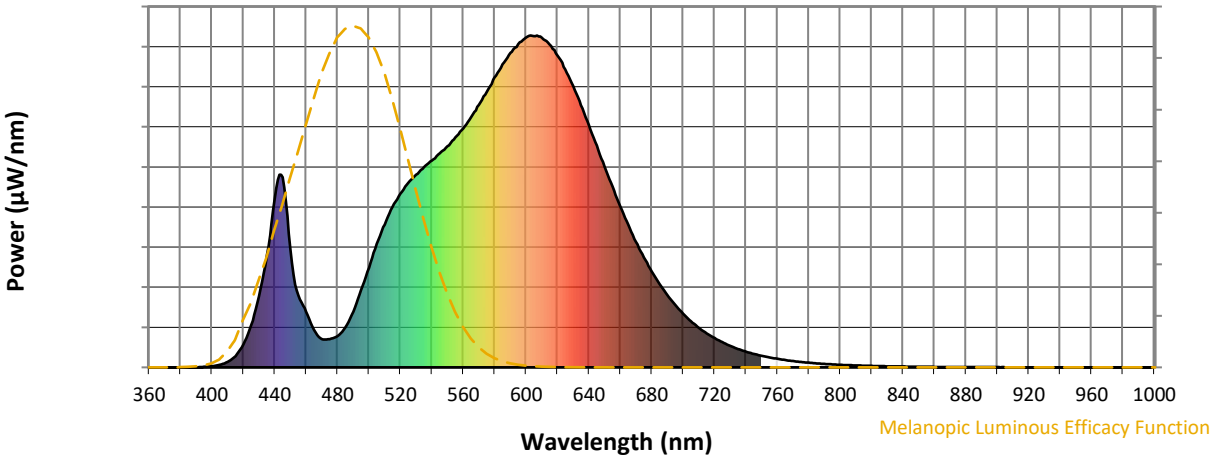
Melanopic Flux vs. Wavelength



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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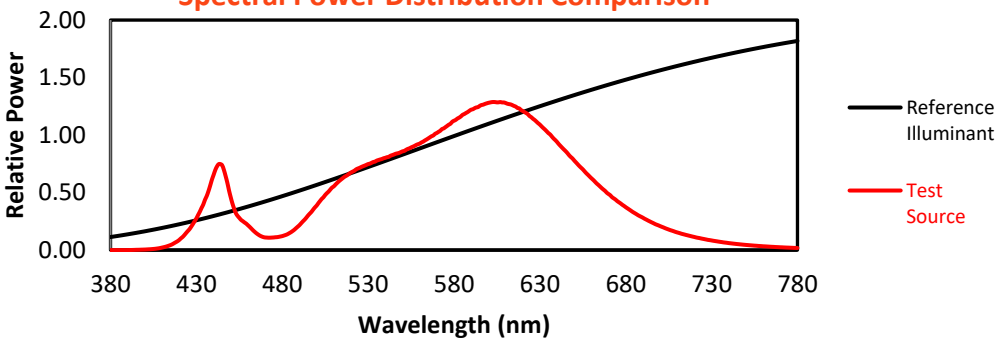
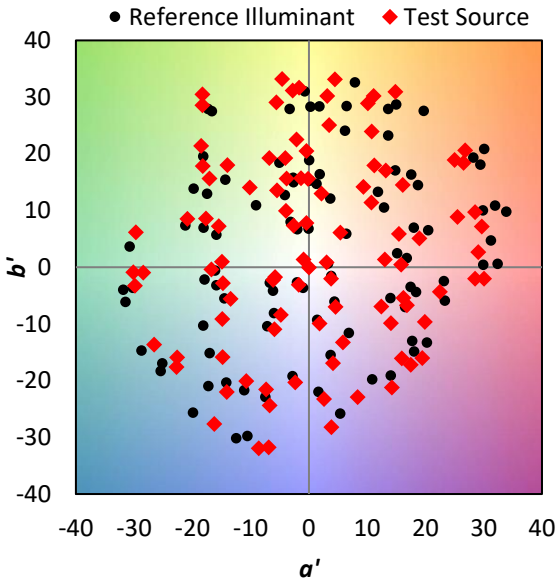
Summary

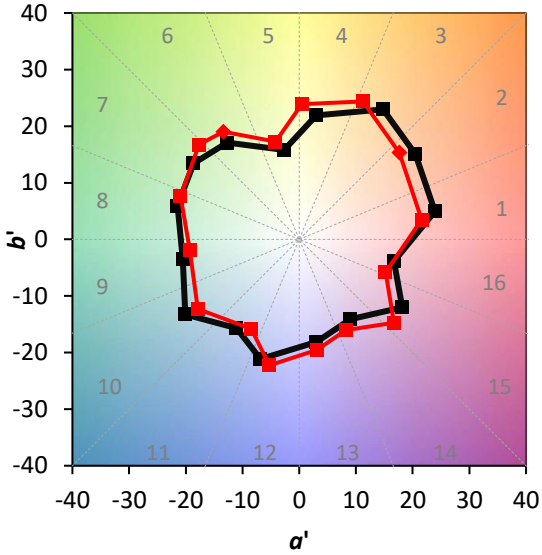
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

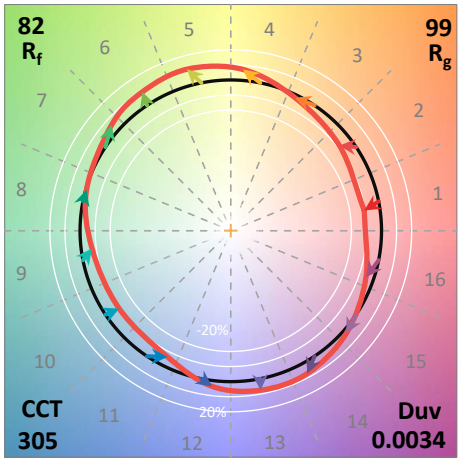
Spectral Power Distribution Comparison

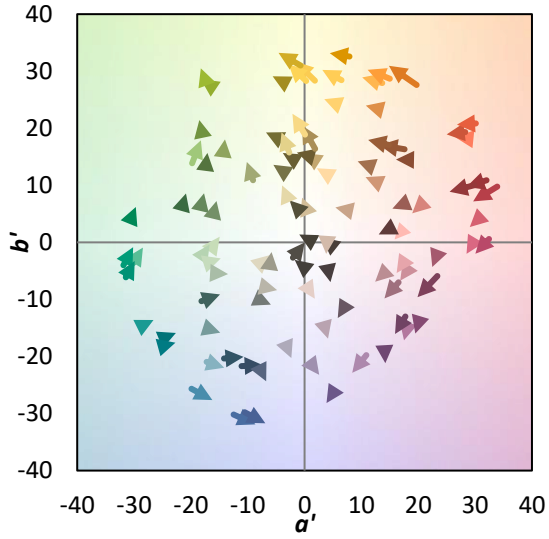


Color Vector Graphics









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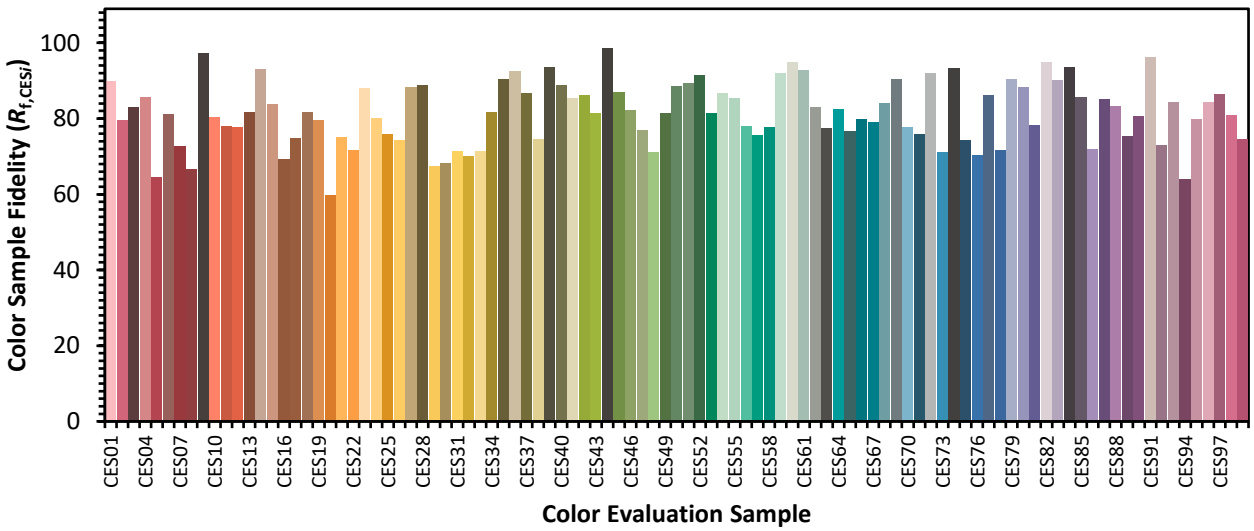
Individual Sample Fidelity Index ($R_{f,i}$)

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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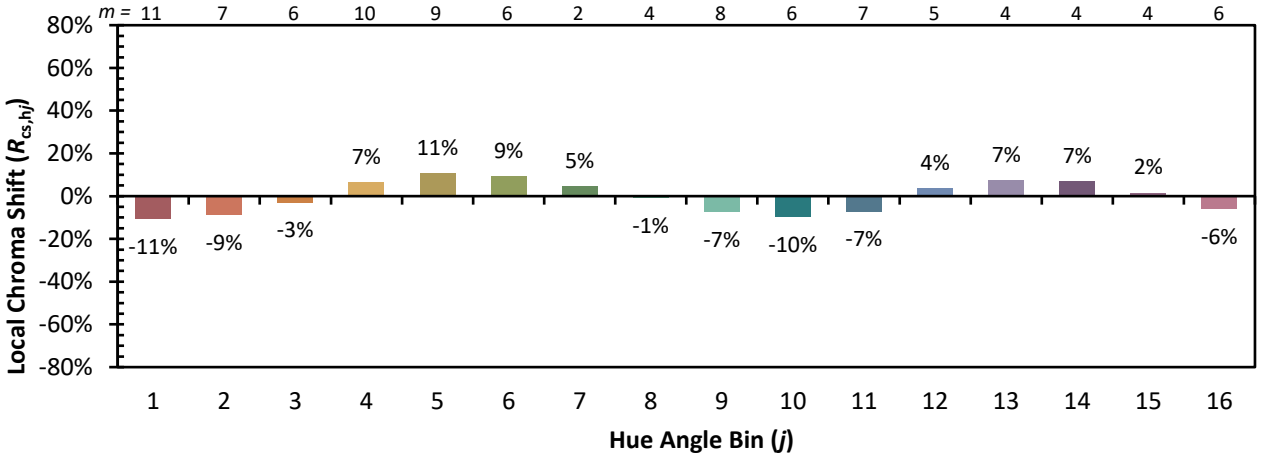
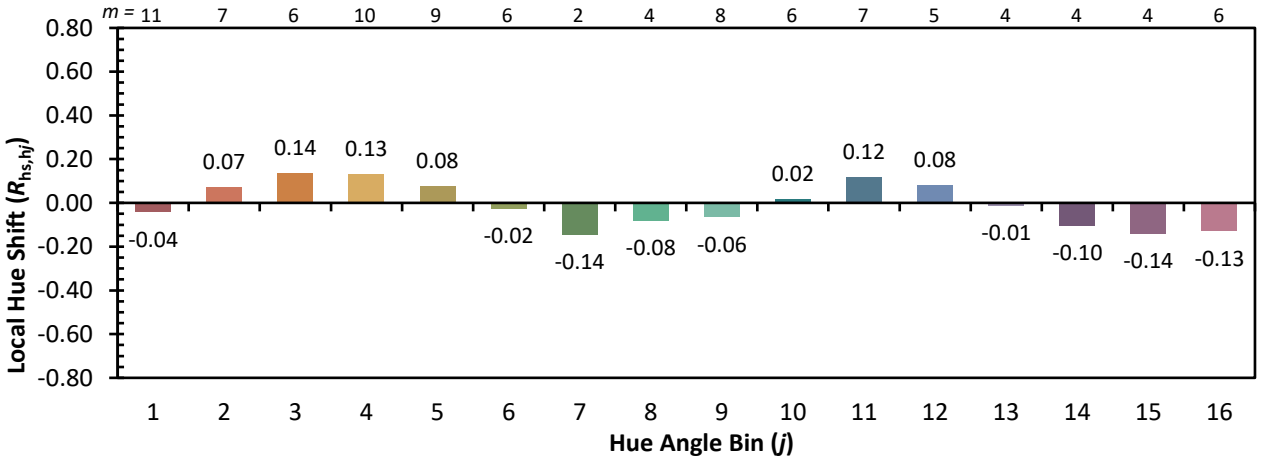
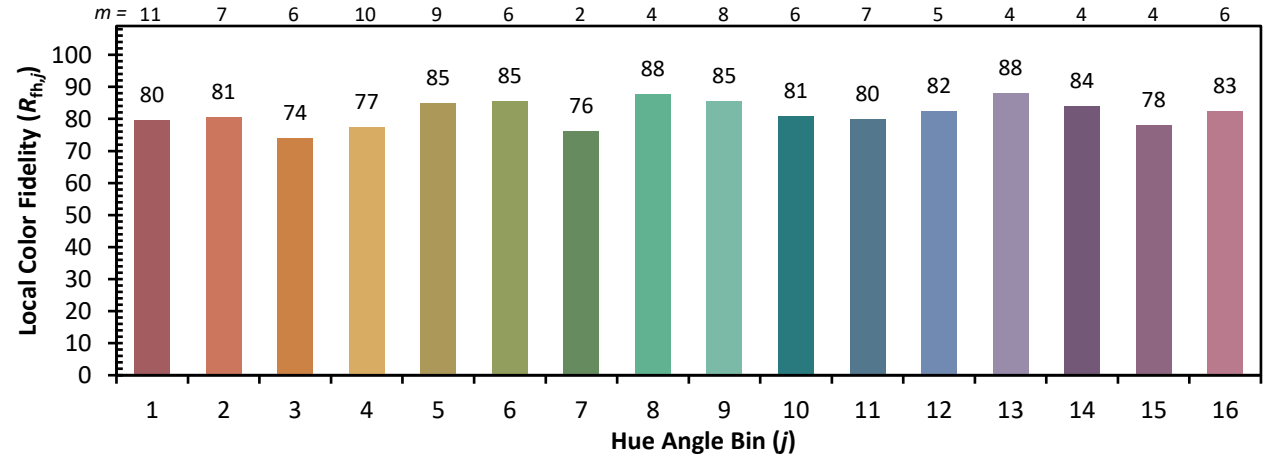
Color Rendition by Hue-Angle Bin







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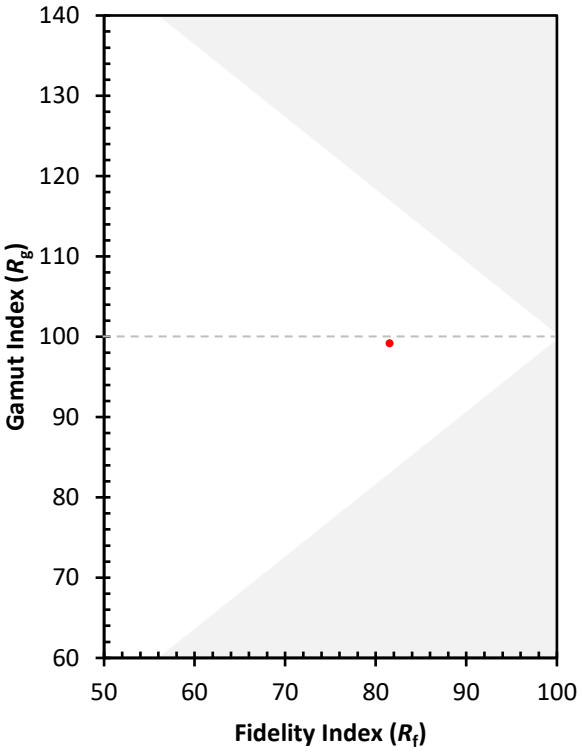
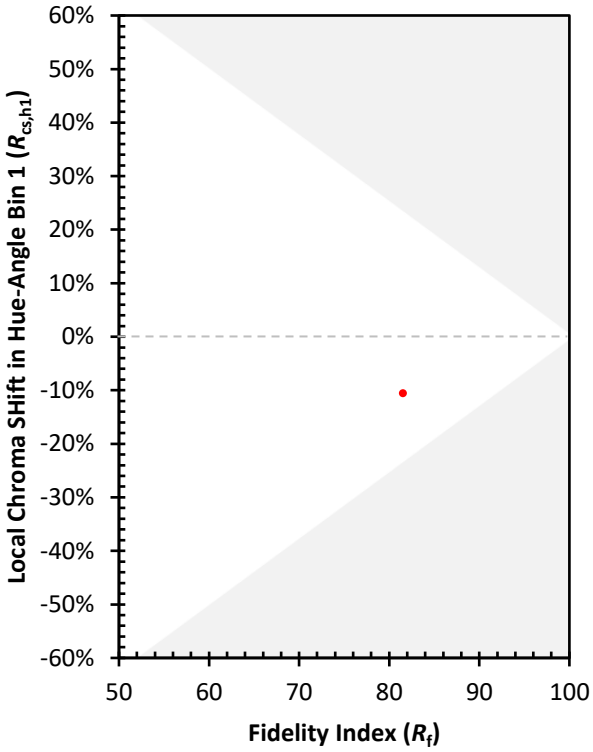
Measure Comparisons





(END OF REPORT)