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: P317611

Luminaire Tested: **GLEON-SA7C-830-U-T2R**

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:	P317611
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7C-830-U-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	41418 lumens
Efficiency:	N/A
Efficacy:	105.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	391
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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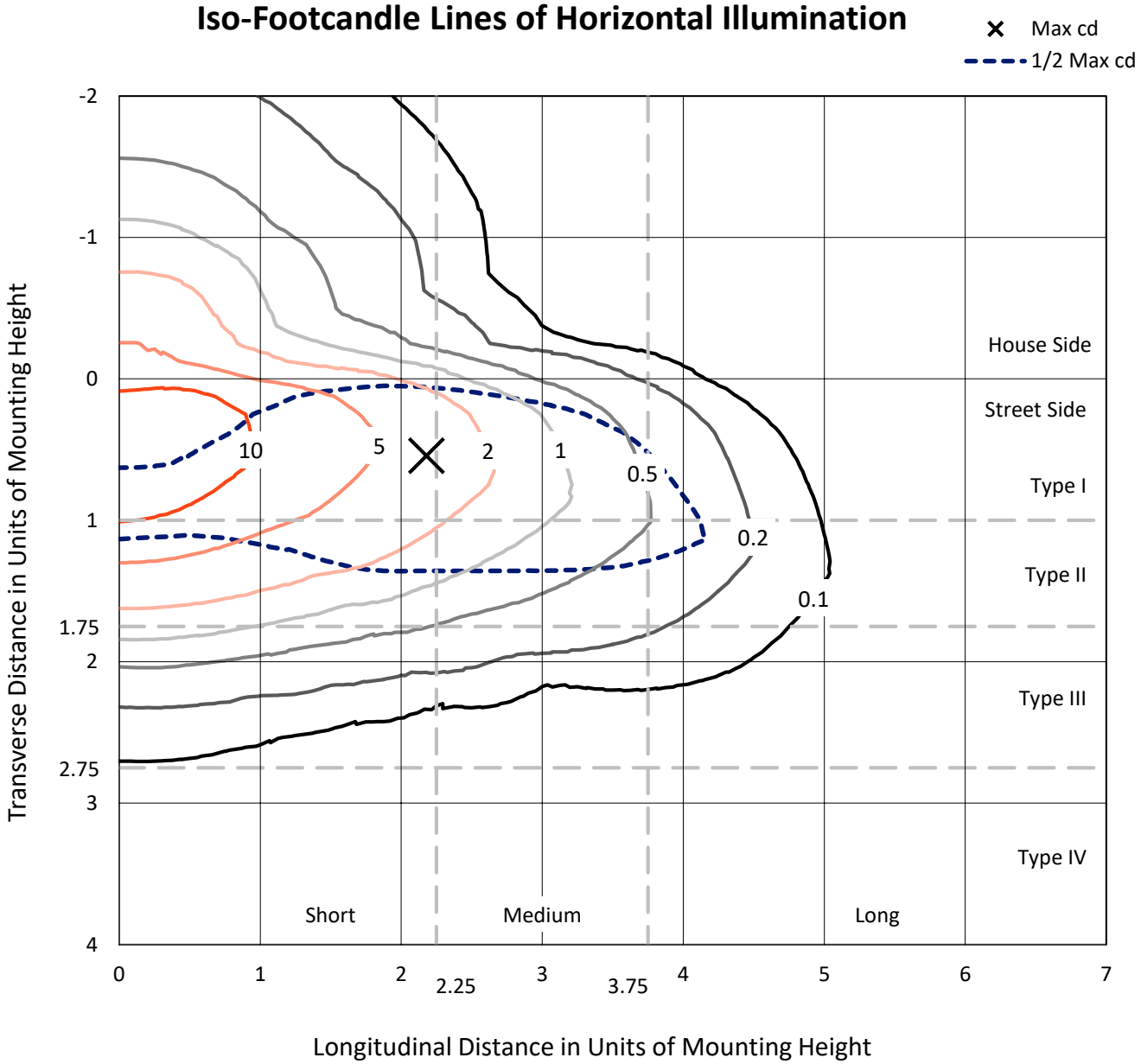
REPORT NUMBER: P317611
CATALOG NUMBER: GLEON-SA7C-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Short - N/A

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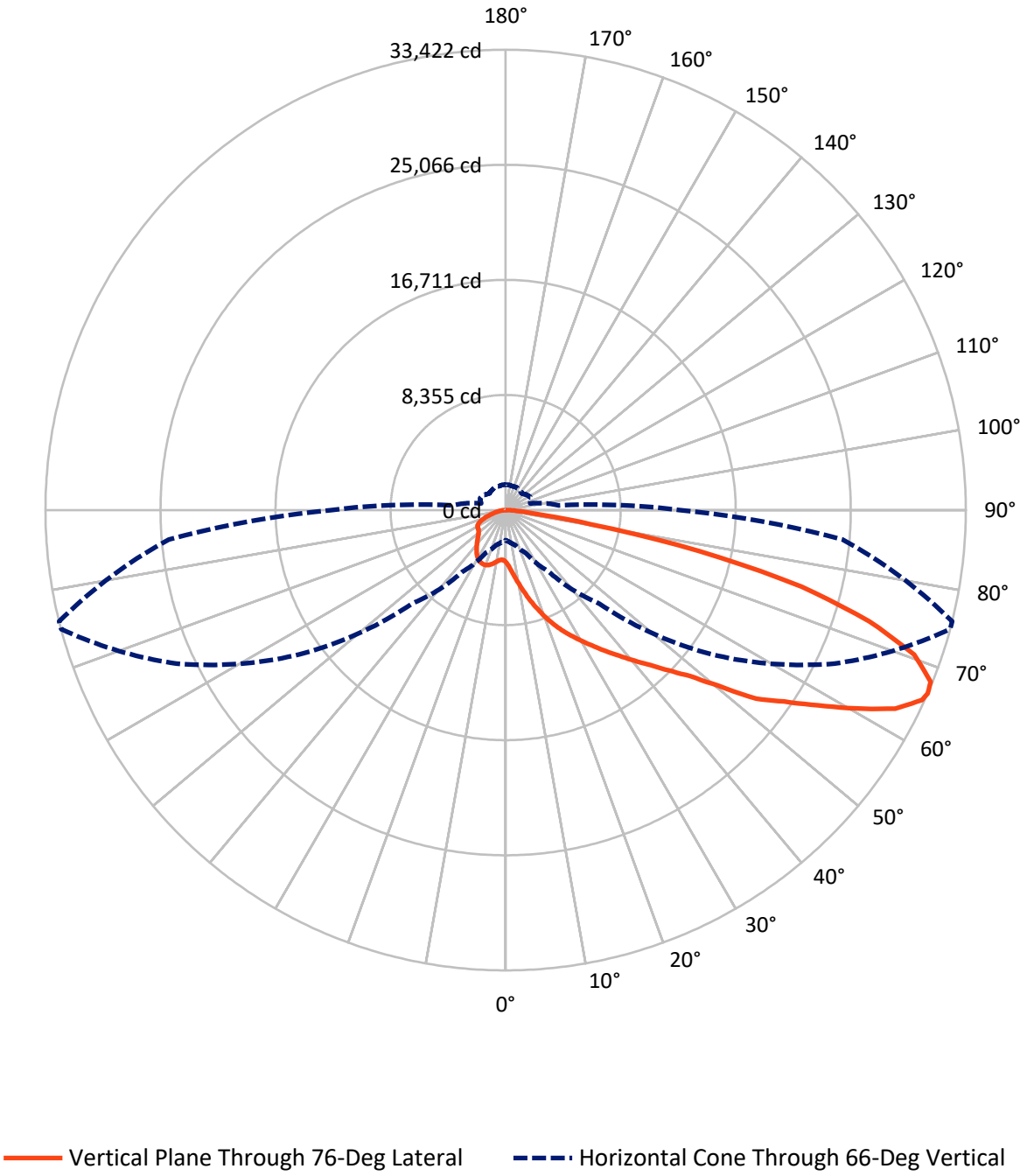
Luminous Intensity Polar Plot



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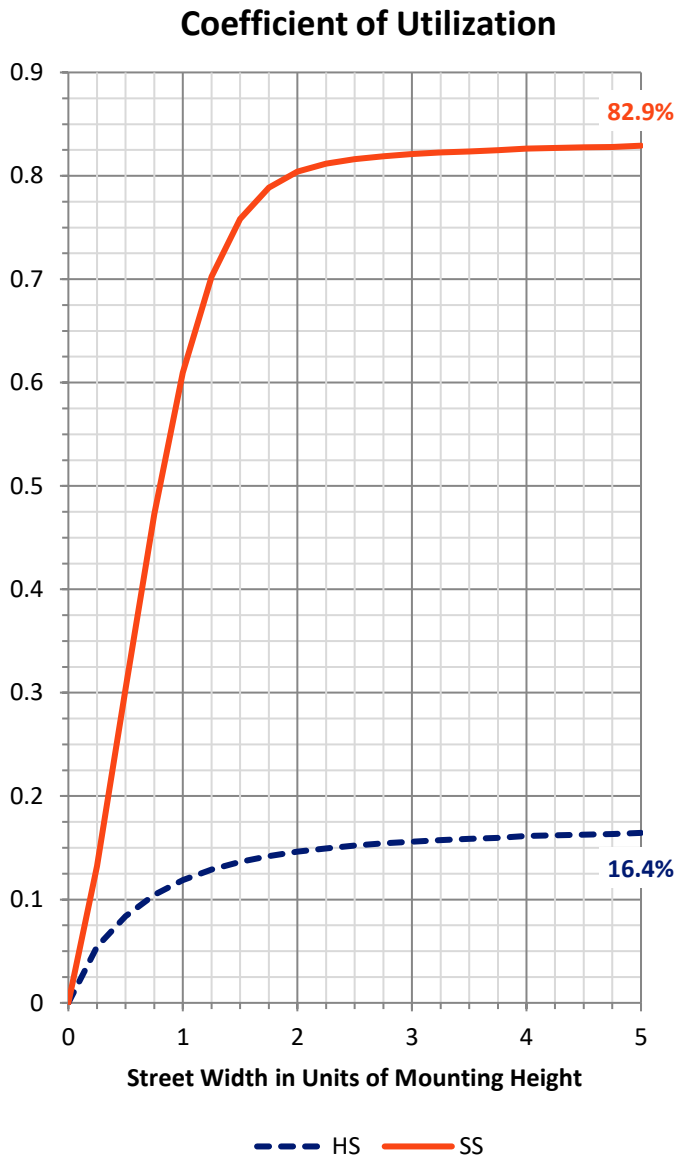
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6969.2	0.0	6969.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	34448.8	0.0	34448.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	41418.0	0.0	41418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.4	1.1
10°-20°	1806.2	4.4
20°-30°	3509.9	8.5
30°-40°	5729.0	13.8
40°-50°	7827.2	18.9
50°-60°	9117.1	22.0
60°-70°	8173.6	19.7
70°-80°	4130.6	10.0
80°-90°	667.0	1.6
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°	41418.0	100.0
0°-180°	41418.0	100.0



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REPORT NUMBER: P317611
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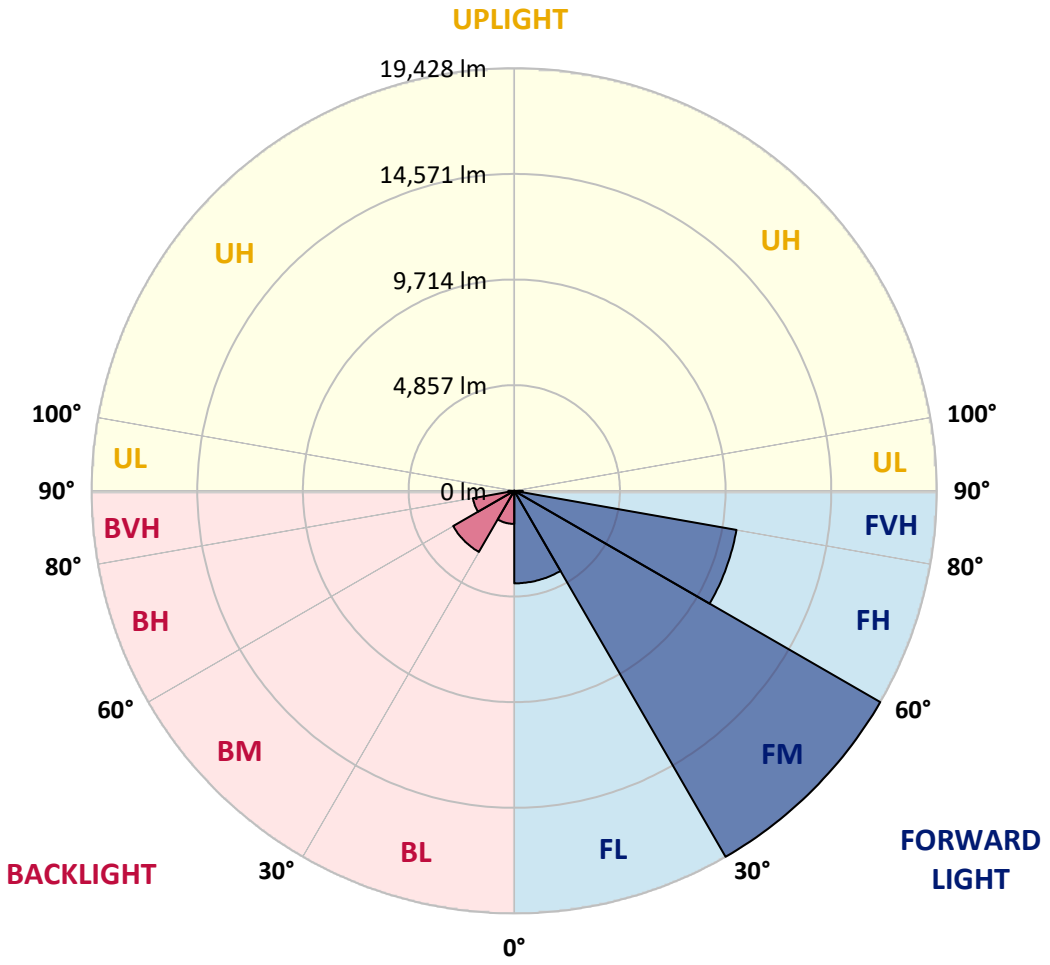
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4253.5	10.3			
FM	(30°-60°)	19427.9	46.9			
FH	(60°-80°)	10373.4	25.0			G4/12000
FVH	(80°-90°)	393.9	1.0			G3/500
BL	(0°-30°)	1520.0	3.7	B3/2500		
BM	(30°-60°)	3245.3	7.8	B3/5000		
BH	(60°-80°)	1930.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	273.1	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	*3782.4*	3782.4
2.5°	5021.2	4945.2	4938.2	4827.1	4801.8	4589.5	4433.4	4270.3	4084.7	*4048.1*	3901.9
5°	6449.8	6442.7	6345.7	6164.3	6022.3	5659.5	5301.0	4921.3	4505.1	*4437.6*	4108.6
7.5°	7734.9	7723.7	7649.2	7453.7	7248.4	6802.7	6290.9	5708.7	5033.8	*4934.0*	4388.4
10°	8710.8	8706.5	8681.2	8537.8	8363.5	7936.0	7370.8	6576.3	5648.3	*5511.9*	4738.5
12.5°	9464.4	9472.9	9489.7	9439.1	9356.2	8992.0	8412.7	7495.9	6303.5	*6168.5*	5128.0
15°	9974.8	10000.2	10087.3	10159.0	10202.6	9979.1	9418.0	8436.6	7037.5	*6875.8*	5559.7
17.5°	10232.2	10260.3	10410.7	10627.3	10826.9	10804.4	10358.7	9333.7	7742.0	*7585.9*	6023.7
20°	10454.3	10475.4	10644.1	10904.3	11257.2	11413.3	11163.0	10197.0	8513.9	*8328.3*	6515.8
22.5°	11098.3	11125.0	11175.6	11323.3	11635.4	11922.3	11801.4	11013.9	9221.2	*9048.2*	6982.7
25°	12341.3	12373.6	12264.0	12138.8	12197.9	12397.5	12420.0	11759.2	9938.3	*9742.8*	7484.6
27.5°	13838.8	13885.2	13698.2	13376.2	13095.0	13017.6	12990.9	12369.4	10623.1	*10396.7*	7981.0
30°	15305.4	15385.5	15142.2	14724.6	14208.6	13845.8	13577.3	12967.0	11298.0	*11081.4*	8449.2
32.5°	16738.2	16705.8	16352.9	15945.1	15340.5	14886.3	14236.7	13608.2	12057.3	*11808.4*	8914.6
35°	17719.6	17730.9	17403.2	16919.6	16343.1	15994.3	15119.7	14300.0	12832.0	*12602.8*	9443.3
37.5°	18554.8	18502.8	18131.6	17680.2	17183.9	17034.8	16153.2	15062.1	13671.5	*13421.2*	10005.8
40°	18833.2	18772.8	18529.5	18204.7	17806.8	17794.1	17293.6	15925.4	14620.6	*14373.1*	10639.9
42.5°	18664.5	18587.2	18487.3	18398.8	18276.4	18332.7	18365.0	16937.8	15663.9	*15386.9*	11373.9
45°	18041.6	17924.9	17995.2	18187.8	18453.6	18771.4	19332.4	18058.5	16832.4	*16600.4*	12235.8
47.5°	17084.1	16978.6	17198.0	17609.9	18332.7	19137.0	20247.8	19295.9	18227.2	*17996.6*	13463.4
50°	15737.0	15768.0	16081.5	16831.0	17923.5	19305.7	21375.5	20934.0	20254.8	*20039.7*	15138.0
52.5°	13526.6	13532.3	14415.3	15645.6	17198.0	19218.5	22001.2	23027.6	23023.4	*22763.3*	16732.5
55°	11473.7	11598.9	12297.7	13933.0	16022.5	18869.8	22438.5	24045.6	24841.5	*24536.4*	18218.8
57.5°	9468.6	9541.8	10204.0	11846.4	14345.0	17940.4	22887.0	25267.5	26936.6	*26743.9*	20066.4
60°	7188.0	7300.4	7985.2	9502.4	12199.3	16291.0	22929.2	26542.9	29440.8	*29246.8*	22129.1
62.5°	4665.4	4859.5	5500.6	6922.2	9603.6	13918.9	21950.6	27376.7	31814.3	*31745.4*	23959.9
65°	2681.4	2827.7	3273.4	4370.1	6625.5	10940.8	19623.5	27056.1	33275.3	*33235.9*	24644.6
66°	*2190.7*	*2282.1*	*2623.8*	*3415.4*	*5466.9*	*9607.9*	*18270.8*	*26379.8*	*33420.1*	*33421.5*	*24565.9*
67.5°	1752.0	1792.8	1946.0	2445.2	4034.1	7615.4	15853.7	24887.9	33240.1	*33289.3*	24058.3
70°	1449.7	1470.8	1518.6	1639.5	2201.9	4592.3	11253.0	21011.3	31433.3	*31471.2*	22077.1
72.5°	1300.6	1313.3	1331.6	1348.4	1553.7	2566.1	6873.0	16808.5	27559.5	*27608.7*	19058.2
75°	1178.3	1185.3	1182.5	1183.9	1303.5	1635.3	3551.8	12549.4	22283.8	*22185.4*	14599.5
77.5°	1034.9	1041.9	1027.9	1030.7	1153.0	1257.0	1767.5	8785.3	15038.2	*14343.6*	8225.7
80°	874.6	880.2	874.6	884.4	1004.0	949.1	1027.9	4942.4	6649.4	*6289.5*	2924.7
82.5°	660.9	684.8	701.6	741.0	826.8	674.9	687.6	1924.9	2024.8	*1927.8*	897.1
85°	289.7	352.9	528.7	566.7	621.5	405.0	451.4	784.6	824.0	*798.7*	326.2
87.5°	75.9	83.0	261.5	329.0	344.5	182.8	234.8	357.1	376.8	*357.1*	108.3
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: P317611
CATALOG NUMBER: GLEON-SA7C-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4
2.5°	3824.6	3755.7	3631.9	3522.3	3439.3	3383.1	3326.8	3298.7	3281.8	3265.0	3267.8
5°	3946.9	3807.7	3595.4	3444.9	3360.6	3307.1	3279.0	3267.8	3260.7	3243.9	3243.9
7.5°	4131.1	3934.3	3641.8	3487.1	3421.0	3380.3	3363.4	3357.8	3349.3	3329.6	3332.4
10°	4363.1	4087.5	3738.8	3588.4	3527.9	3482.9	3459.0	3450.6	3435.1	3412.6	3415.4
12.5°	4635.9	4277.3	3866.8	3709.3	3636.2	3575.7	3536.3	3512.4	3485.7	3456.2	3457.6
15°	4934.0	4484.0	4004.6	3817.5	3717.7	3633.4	3570.1	3529.3	3487.1	3450.6	3449.2
17.5°	5236.3	4683.7	4110.0	3876.6	3741.6	3630.5	3544.8	3481.5	3429.5	3384.5	3380.3
20°	5562.5	4863.7	4169.1	3871.0	3696.6	3564.5	3450.6	3371.8	3314.2	3269.2	3262.1
22.5°	5894.4	5032.4	4178.9	3813.3	3596.8	3435.1	3315.6	3228.4	3169.3	3122.9	3106.1
25°	6198.1	5163.2	4138.1	3702.3	3457.6	3283.2	3166.5	3077.9	3030.1	2975.3	2958.4
27.5°	6475.1	5254.6	4056.6	3560.2	3301.5	3130.0	3020.3	2944.4	2892.3	2850.2	2836.1
30°	6723.9	5303.8	3923.0	3391.5	3141.2	2985.1	2892.3	2840.3	2795.3	2741.9	2732.0
32.5°	6960.2	5303.8	3751.5	3207.3	2982.3	2857.2	2802.3	2770.0	2719.4	2667.4	2653.3
35°	7196.4	5271.5	3549.0	3014.7	2836.1	2765.8	2763.0	2725.0	2647.7	2577.4	2559.1
37.5°	7445.3	5205.4	3321.2	2834.7	2716.6	2725.0	2748.9	2664.6	2554.9	2455.0	2428.3
40°	7726.5	5114.0	3085.0	2678.6	2616.7	2706.7	2711.0	2577.4	2363.6	2272.3	2248.3
42.5°	8056.9	5022.6	2865.6	2540.8	2538.0	2651.9	2639.2	2389.0	2261.0	2214.6	2201.9
45°	8491.4	4970.5	2657.5	2410.0	2476.1	2563.3	2516.9	2284.9	2231.5	2204.8	2193.5
47.5°	9176.2	4997.3	2466.3	2306.0	2414.3	2474.7	2289.1	2242.7	2204.8	2172.4	2161.2
50°	10033.9	4981.8	2311.6	2234.3	2344.0	2381.9	2186.5	2187.9	2168.2	2131.6	2114.8
52.5°	10679.3	4860.9	2211.8	2193.5	2282.1	2217.4	2121.8	2134.5	2124.6	2071.2	2052.9
55°	11302.2	4756.8	2161.2	2178.0	2237.1	2012.1	2045.9	2076.8	2067.0	2014.9	2006.5
57.5°	12077.0	4737.1	2130.2	2182.3	2199.1	1909.5	1972.8	2013.5	2006.5	1984.0	1979.8
60°	13026.1	4742.8	2102.1	2189.3	2157.0	1833.5	1903.9	1955.9	1960.1	1955.9	1953.1
62.5°	13547.7	4589.5	2031.8	2169.6	2082.4	1767.5	1832.1	1908.1	1909.5	1917.9	1916.5
65°	13104.8	4131.1	1901.0	2100.7	1957.3	1712.6	1770.3	1853.2	1832.1	1870.1	1870.1
66°	*12674.5*	*3866.8*	*1836.4*	*2055.7*	*1903.9*	*1691.5*	*1750.6*	*1825.1*	*1798.4*	*1850.4*	*1850.4*
67.5°	11795.7	3421.0	1719.7	1960.1	1827.9	1662.0	1728.1	1778.7	1742.2	1819.5	1813.9
70°	10190.0	2646.3	1484.8	1743.6	1702.8	1618.4	1697.2	1685.9	1632.5	1750.6	1728.1
72.5°	8591.2	2010.7	1192.4	1459.5	1513.0	1563.6	1653.6	1567.8	1500.3	1583.3	1534.1
75°	6666.3	1511.6	942.1	1134.7	1278.1	1477.8	1601.5	1431.4	1334.4	1325.9	1299.2
77.5°	3603.8	1037.7	746.6	866.2	1015.2	1370.9	1566.4	1285.2	1138.9	1105.2	1084.1
80°	1427.2	674.9	542.8	656.6	710.1	1216.3	1482.0	1115.0	939.3	905.5	873.2
82.5°	589.2	399.3	350.1	440.1	462.6	1040.5	1330.2	914.0	725.5	1004.0	1065.8
85°	253.1	219.4	208.1	227.8	261.5	729.8	1058.8	697.4	783.2	698.8	555.4
87.5°	75.9	92.8	88.6	87.2	95.6	174.4	563.8	388.1	575.1	217.9	163.1
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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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

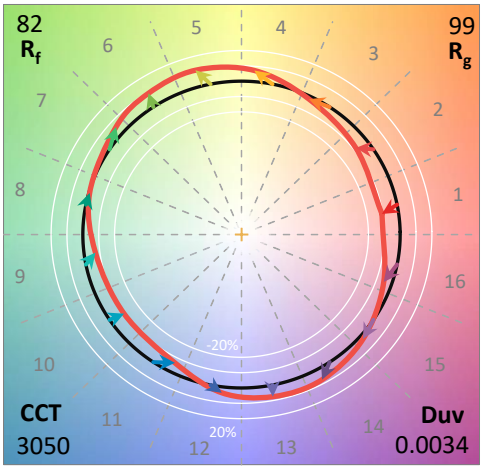
Test Information

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

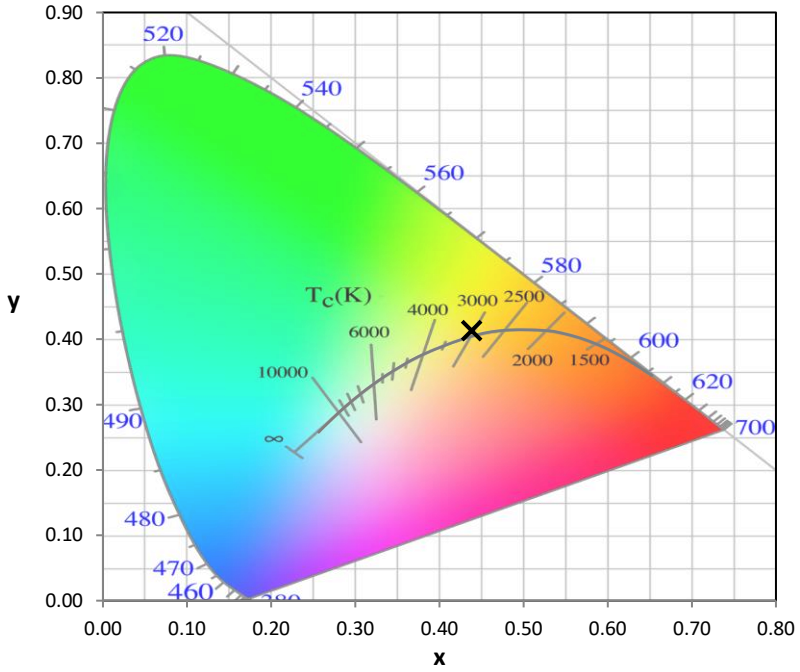
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

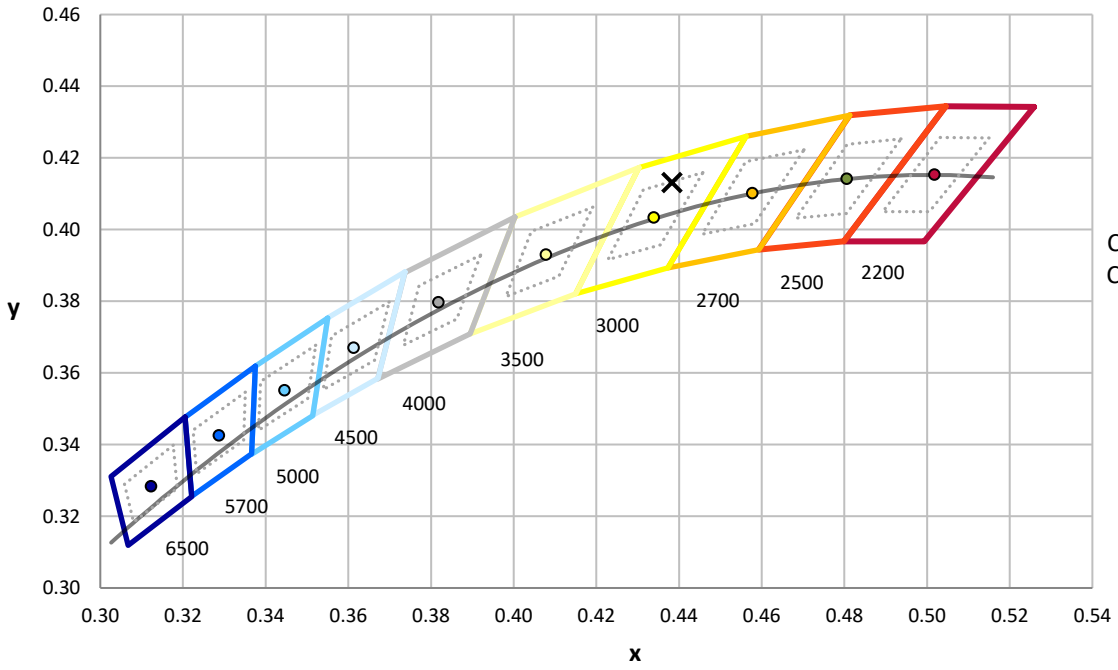
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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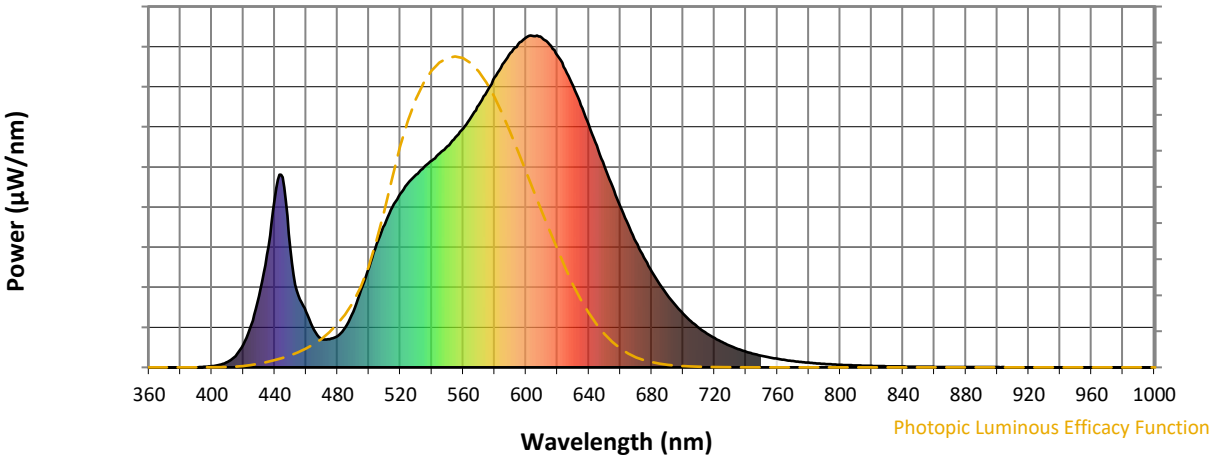
Photopic Flux vs. Wavelength



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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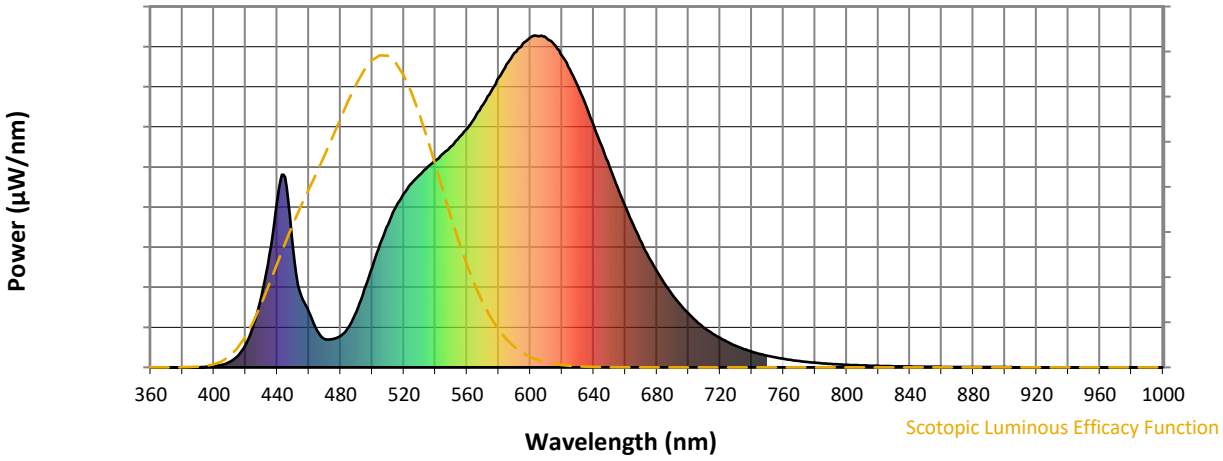
Scotopic Flux vs. Wavelength



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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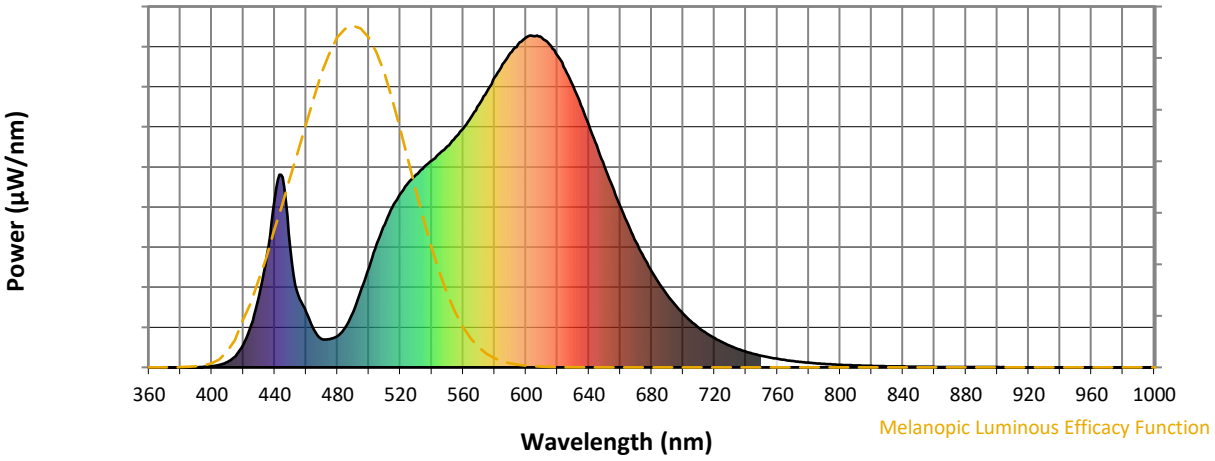
Melanopic Flux vs. Wavelength



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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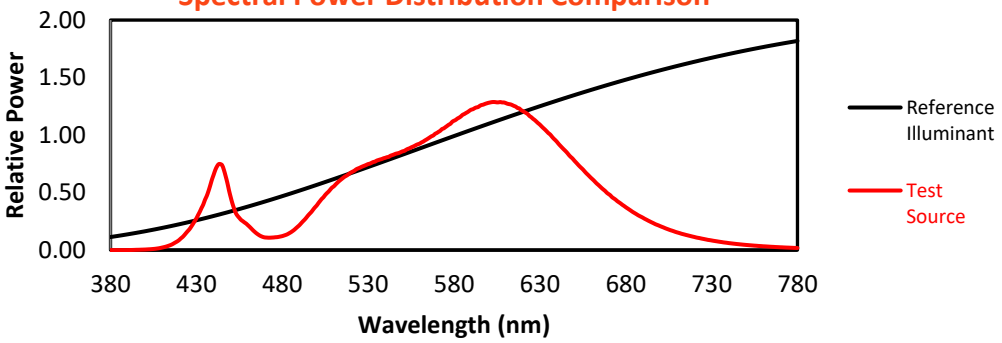
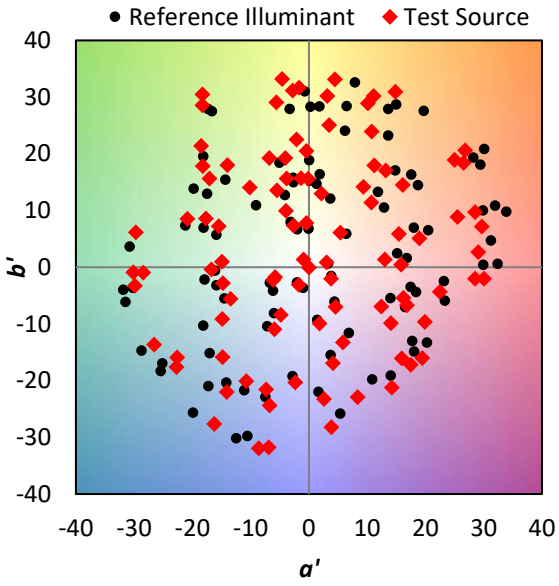
Summary

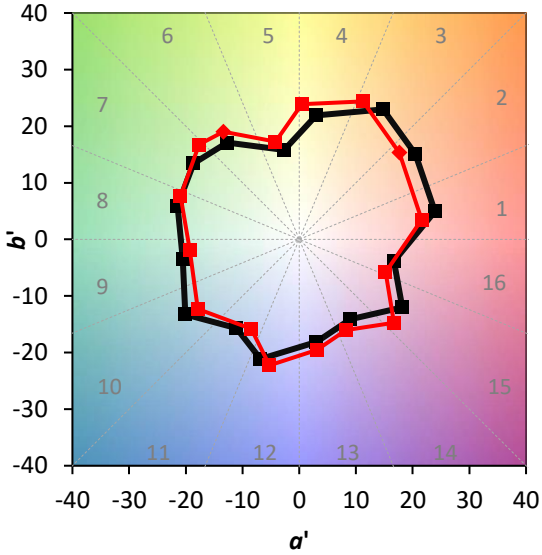
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

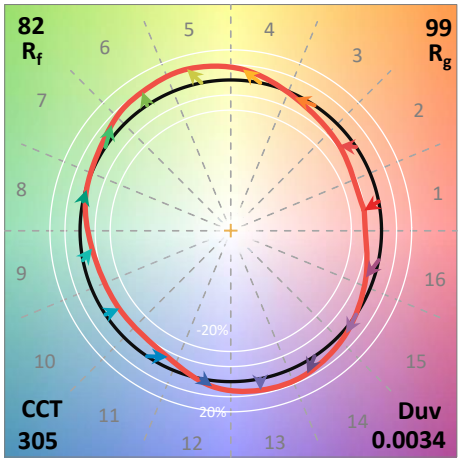
Spectral Power Distribution Comparison

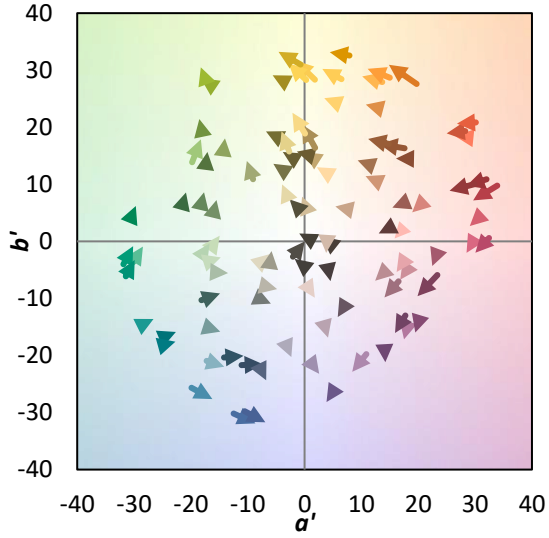


Color Vector Graphics









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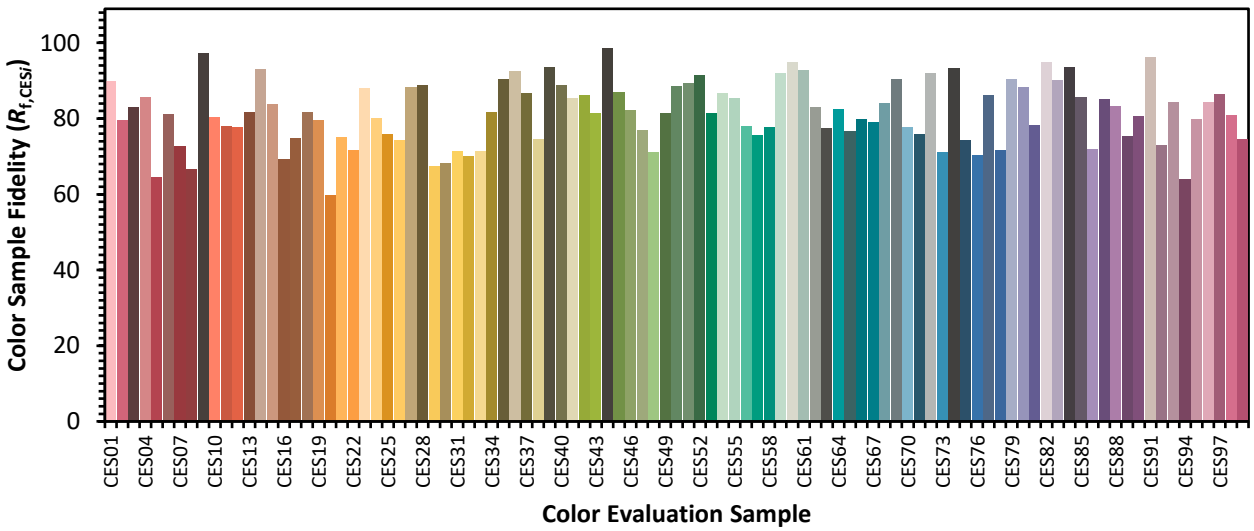
Individual Sample Fidelity Index ($R_{f,i}$)

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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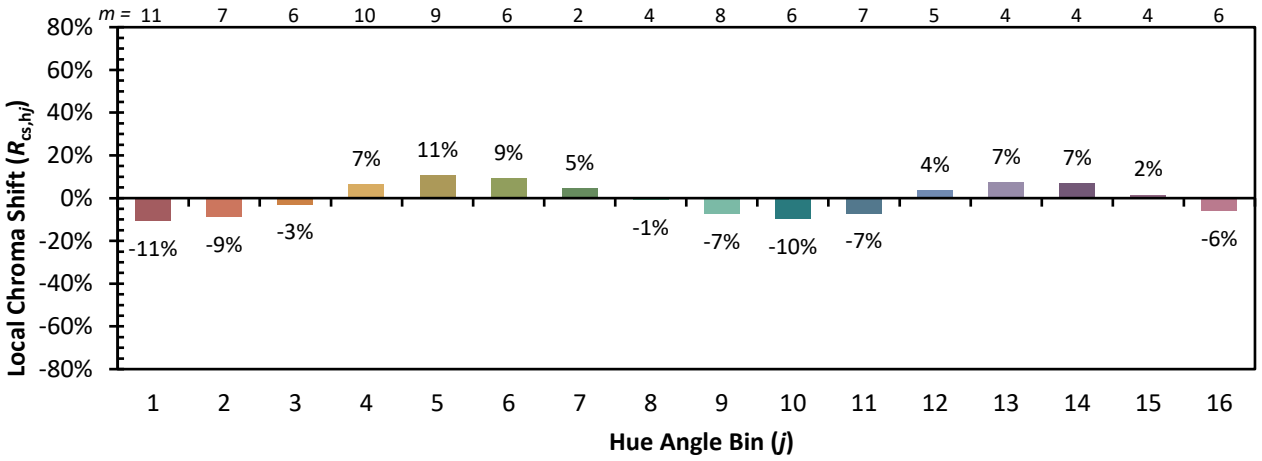
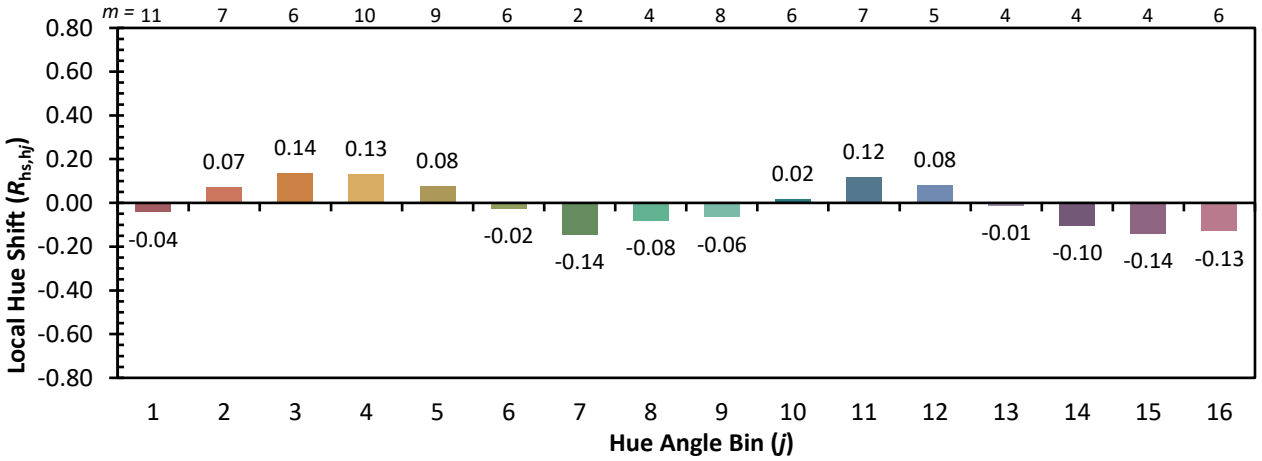
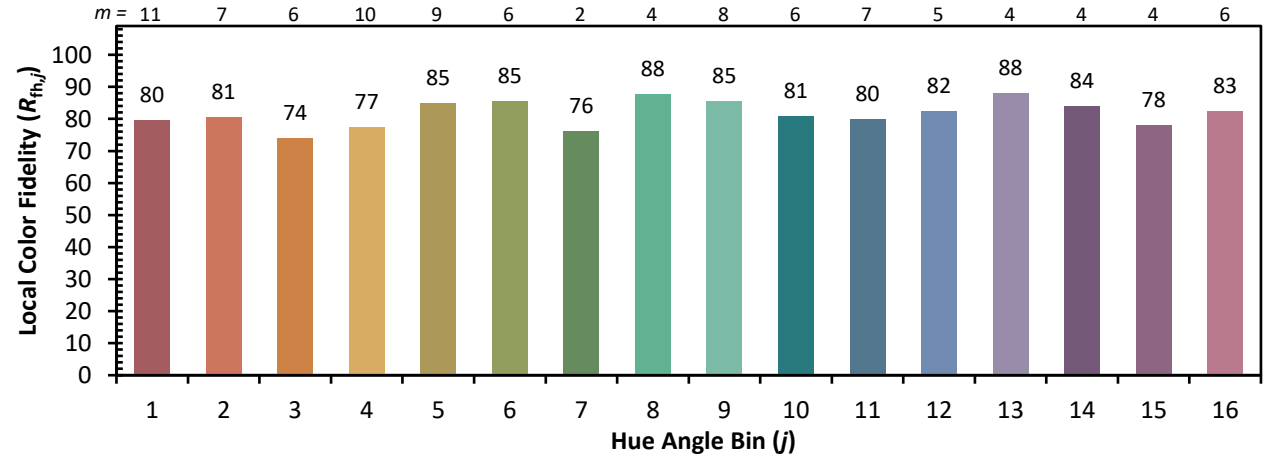
Color Rendition by Hue-Angle Bin







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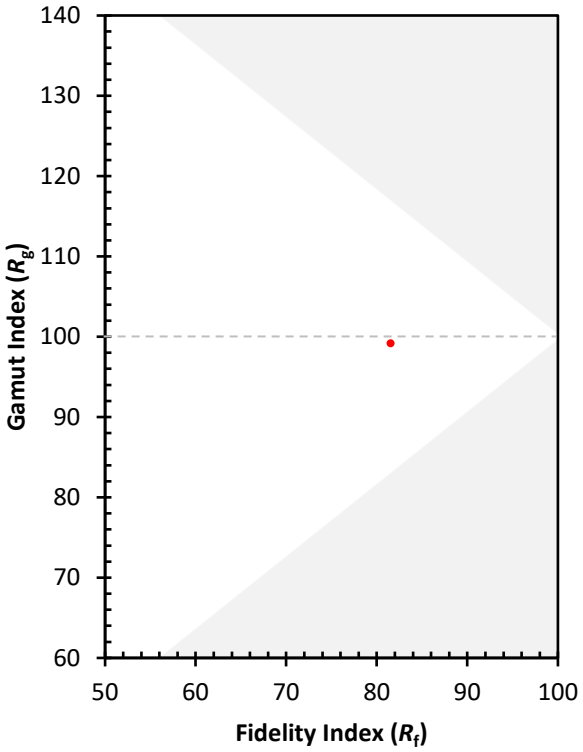
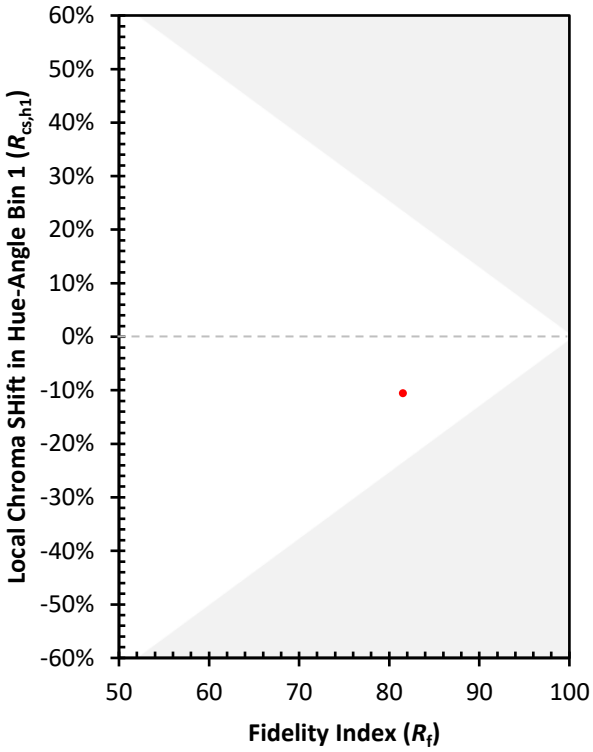
Measure Comparisons





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