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: P322097

Luminaire Tested: **GLEON-SA3D-830-U-T2-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:	P322097
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3D-830-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13390 lumens
Efficiency:	N/A
Efficacy:	70.1 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):	191
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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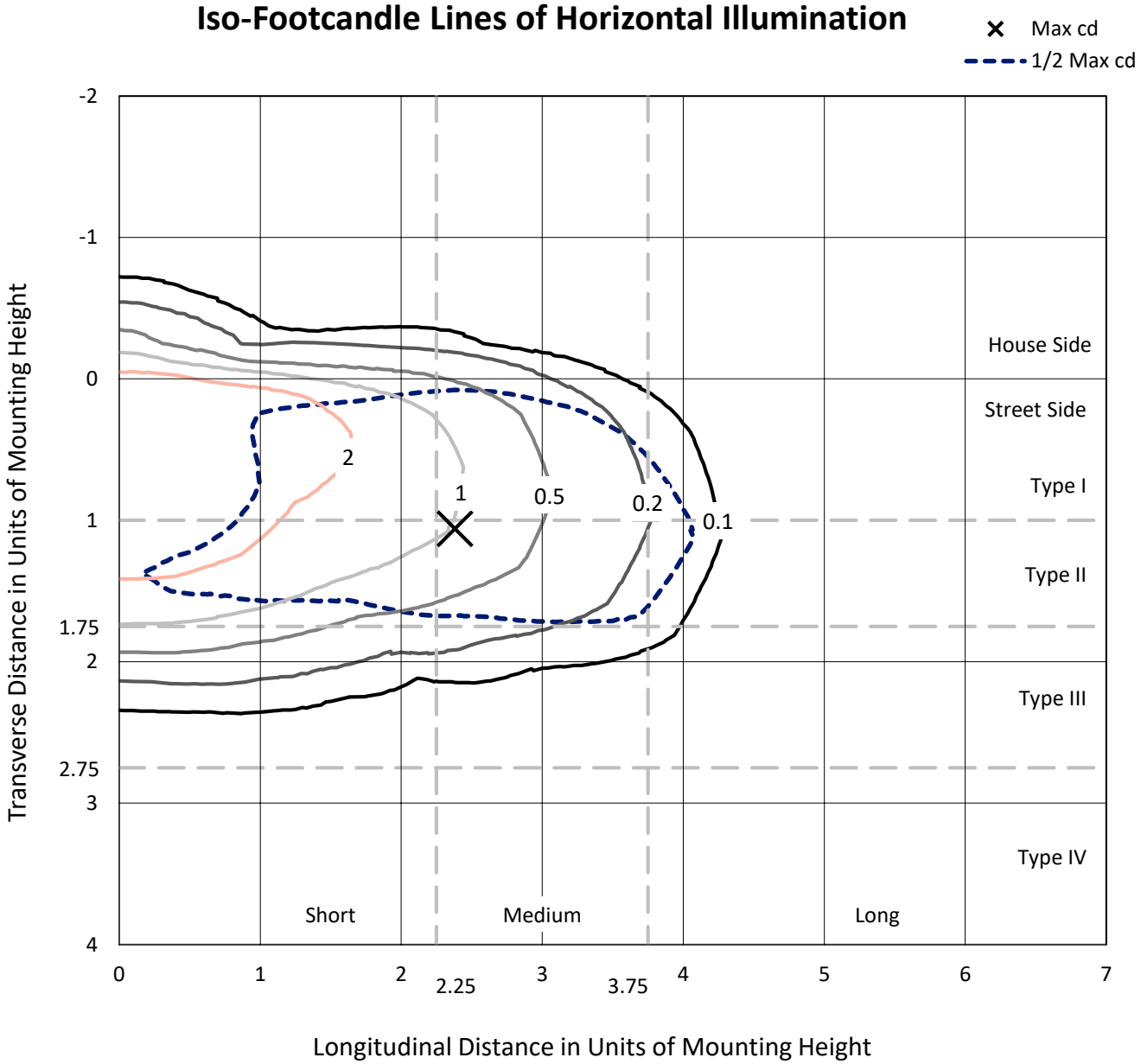
REPORT NUMBER: P322097
CATALOG NUMBER: GLEON-SA3D-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Medium - N/A

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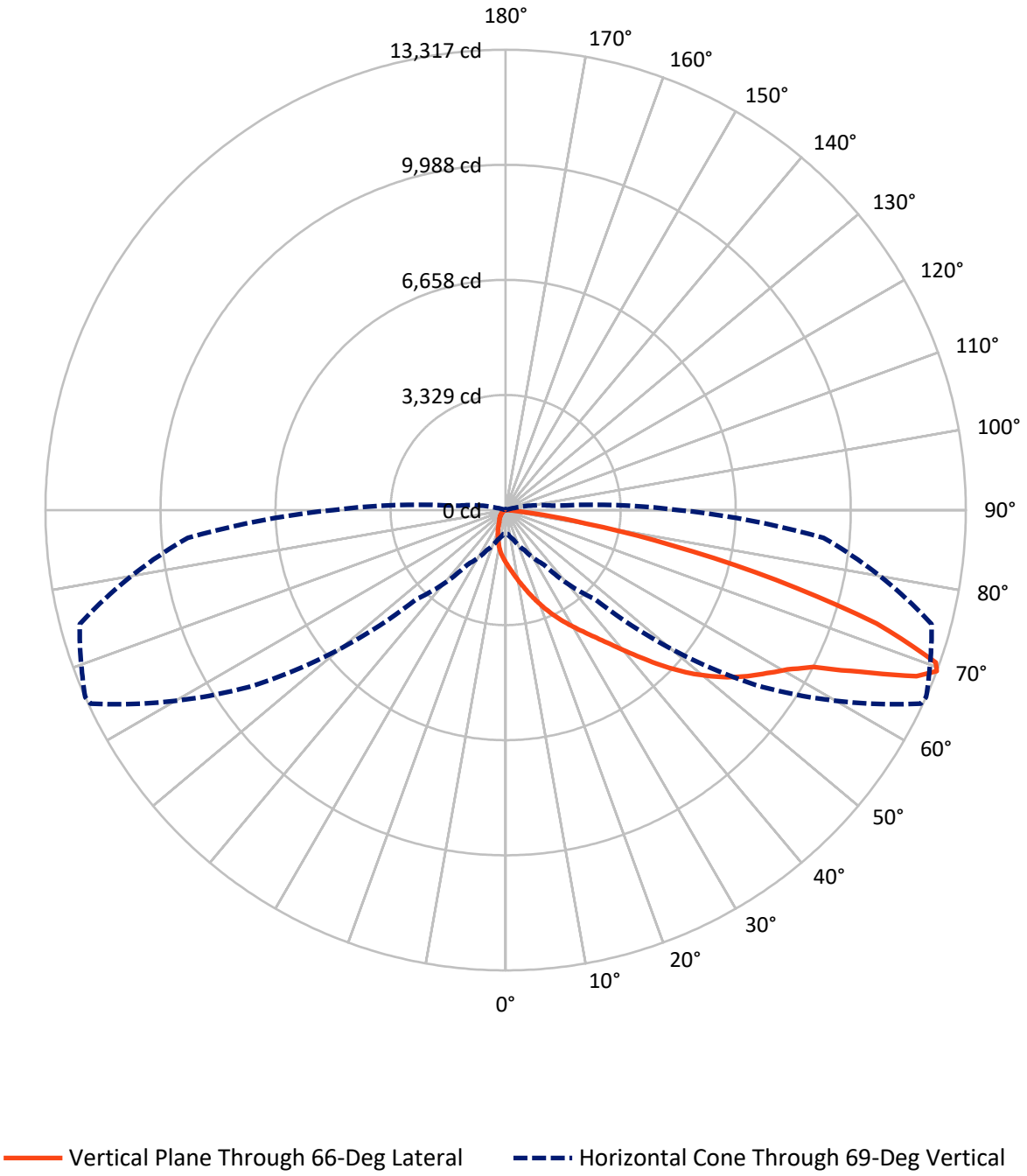
Luminous Intensity Polar Plot



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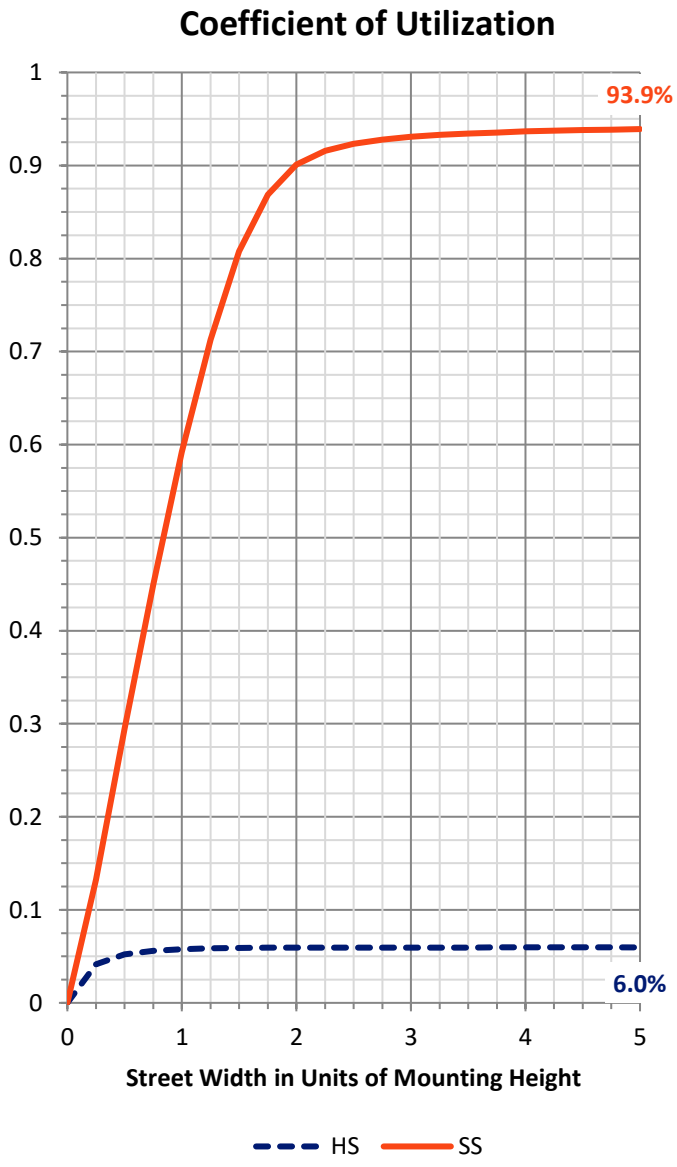
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.2	0.0	803.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	12586.8	0.0	12586.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	13390.0	0.0	13390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.1
10°-20°	438.4	3.3
20°-30°	763.4	5.7
30°-40°	1339.4	10.0
40°-50°	2241.9	16.7
50°-60°	3295.4	24.6
60°-70°	3383.5	25.3
70°-80°	1670.3	12.5
80°-90°	110.4	0.8
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°	13390.0	100.0
0°-180°	13390.0	100.0



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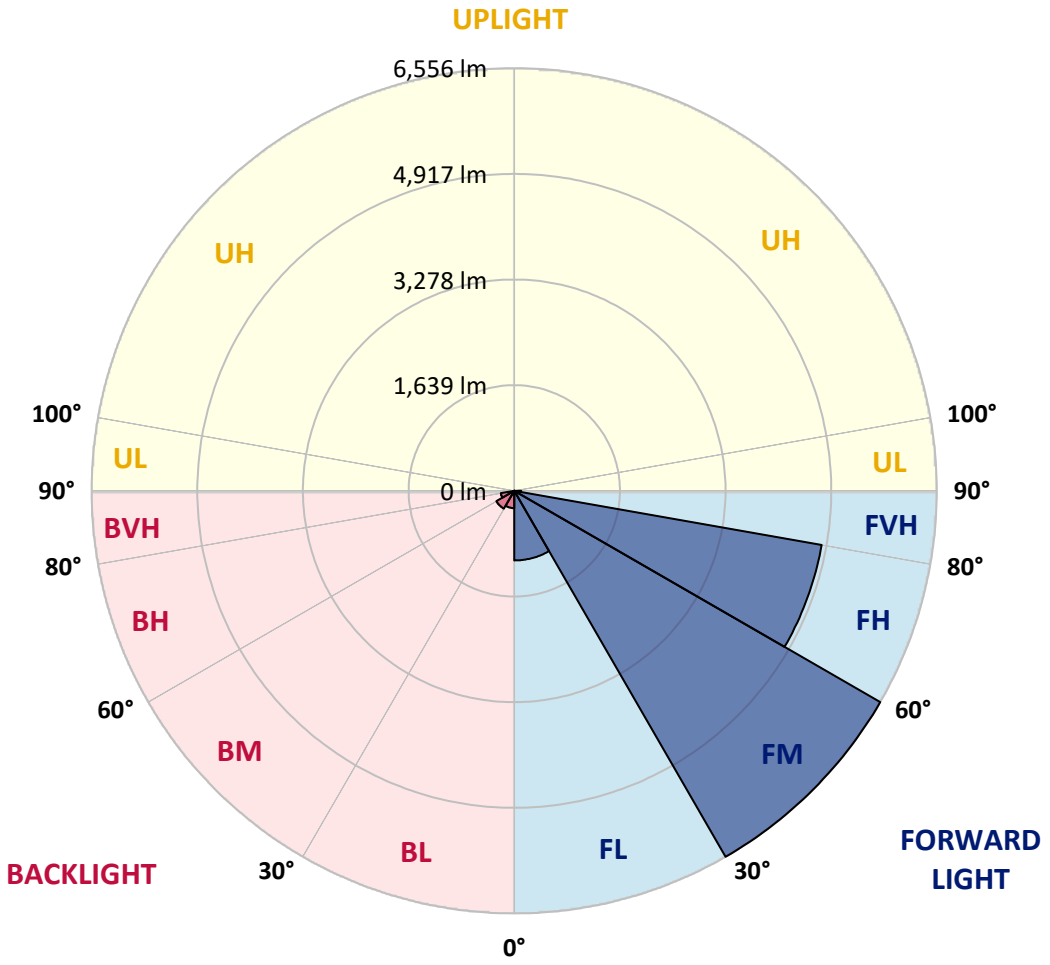
CATALOG NUMBER: GLEON-SA3D-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1080.4	8.1			
FM	(30°-60°)	6556.4	49.0			
FH	(60°-80°)	4842.2	36.2			G2/5000
FVH	(80°-90°)	107.8	0.8			G2/225
BL	(0°-30°)	268.6	2.0	B1/500		
BM	(30°-60°)	320.2	2.4	B1/1000		
BH	(60°-80°)	211.7	1.6	B1/500		G1/500
BVH	(80°-90°)	2.7	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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REPORT NUMBER: P322097
CATALOG NUMBER: GLEON-SA3D-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	*1523.8*	1523.8	1523.8
2.5°	1793.5	1785.9	1782.7	1768.7	1744.5	1726.1	1690.5	1649.1	*1641.5*	1601.4	1552.4
5°	2026.3	2019.9	2015.4	1995.7	1970.9	1924.5	1859.6	1782.7	*1768.0*	1691.7	1593.8
7.5°	2188.4	2199.9	2199.9	2187.2	2156.0	2121.0	2041.5	1936.6	*1918.1*	1801.1	1649.1
10°	2283.2	2297.2	2308.0	2318.8	2314.4	2300.4	2225.3	2107.0	*2084.8*	1929.6	1713.3
12.5°	2292.1	2306.1	2336.6	2381.8	2425.7	2457.5	2410.4	2295.9	*2270.5*	2078.4	1789.7
15°	2242.5	2257.1	2304.2	2391.9	2498.2	2591.0	2606.3	2505.2	*2479.1*	2255.8	1885.1
17.5°	2156.0	2165.5	2233.0	2354.4	2521.1	2691.5	2783.7	2729.7	*2705.5*	2458.7	1991.3
20°	2091.8	2098.8	2157.9	2288.3	2507.1	2754.5	2951.6	2968.2	*2942.7*	2676.2	2106.4
22.5°	2201.8	2214.5	2216.4	2278.1	2468.9	2785.6	3099.2	3202.8	*3183.8*	2907.1	2219.6
25°	2502.6	2517.2	2468.9	2430.7	2501.3	2799.6	3225.7	3443.2	*3428.0*	3155.8	2333.4
27.5°	2900.1	2915.4	2853.0	2739.2	2671.1	2852.4	3338.3	3687.5	*3686.8*	3419.1	2456.2
30°	3290.6	3305.9	3242.3	3128.4	2972.0	3001.9	3435.6	3943.1	*3946.9*	3690.6	2586.6
32.5°	3700.2	3719.3	3653.7	3507.5	3344.0	3260.1	3572.3	4200.1	*4221.7*	4005.4	2733.5
35°	4165.7	4168.3	4076.0	3922.8	3734.5	3605.4	3791.8	4488.2	*4539.7*	4395.3	2919.8
37.5°	4622.4	4640.8	4565.1	4323.4	4150.5	4004.2	4118.0	4848.1	*4921.3*	4871.7	3163.4
40°	4960.7	4999.5	4988.7	4727.9	4563.8	4459.5	4523.1	5276.1	*5369.0*	5426.2	3470.6
42.5°	5173.1	5202.4	5252.0	5094.9	4946.1	4963.2	5001.4	5774.8	*5889.2*	6058.4	3823.6
45°	5416.7	5430.7	5472.0	5402.7	5302.2	5475.2	5508.9	6336.3	*6456.5*	6738.3	4215.3
47.5°	5714.3	5747.4	5758.9	5695.3	5649.5	5928.0	5998.0	6847.0	*7015.6*	7466.5	4630.0
50°	6093.4	6102.3	6122.0	6080.7	6034.9	6317.3	6436.8	7383.2	*7536.4*	8197.2	5038.9
52.5°	6464.2	6496.0	6564.7	6538.6	6520.1	6648.6	6828.0	7866.5	*8037.6*	8806.5	5447.2
55°	6571.0	6598.4	6835.6	6997.8	7147.9	7056.9	7201.9	8299.6	*8484.7*	9350.9	5840.3
57.5°	6144.3	6199.6	6610.4	7032.7	7655.4	7691.6	7715.8	8744.2	*8910.2*	9768.1	6249.2
60°	5065.6	5076.4	5750.6	6475.0	7571.4	8245.6	8466.3	9221.8	*9361.1*	10156.7	6738.9
62.5°	3221.9	3331.9	4071.6	5094.3	6683.6	8165.4	9373.8	9944.3	*9995.2*	10622.9	7441.0
65°	1534.6	1605.9	2138.8	3147.5	4841.1	7139.6	10000.3	11251.2	*11274.1*	11547.0	8379.1
67.5°	849.7	884.0	1137.8	1694.3	2830.1	5049.1	9747.1	12799.2	*12820.9*	12490.8	9202.1
69°	*664.6*	*693.9*	*893.6*	*1277.1*	*1918.8*	*3628.9*	*8820.5*	*13252.7*	*13316.9*	*12761.1*	*9231.4*
70°	564.1	592.7	769.5	1078.6	1542.9	2804.1	7851.3	13140.1	*13208.2*	12735.6	9013.2
72.5°	345.3	361.9	512.6	759.4	1034.1	1410.6	4841.8	11112.6	*11227.7*	11682.4	7746.3
75°	232.8	241.7	320.5	524.1	739.7	726.3	2515.3	7832.8	*8082.1*	9087.6	5721.3
77.5°	166.6	174.9	215.0	339.0	518.3	479.5	1139.1	4867.8	*4921.3*	5450.4	3120.2
80°	94.8	102.4	152.0	201.6	351.7	319.9	452.8	2325.2	*2351.9*	2337.3	1041.7
82.5°	49.6	56.0	83.3	132.9	225.8	209.2	188.3	778.4	*782.3*	650.6	228.3
85°	9.5	11.4	41.3	90.9	116.4	90.9	77.0	182.5	*186.3*	164.7	56.6
87.5°	0.0	0.6	16.5	20.4	22.9	23.5	24.8	35.6	*38.2*	51.5	15.3
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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REPORT NUMBER: P322097
CATALOG NUMBER: GLEON-SA3D-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8	1523.8
2.5°	1530.8	1507.9	1464.0	1413.2	1373.7	1334.9	1304.4	1272.6	1261.2	1255.4	1254.8
5°	1546.1	1497.7	1404.9	1309.5	1231.3	1157.5	1104.7	1054.5	1030.9	1020.1	1015.7
7.5°	1571.5	1493.9	1344.5	1198.8	1086.3	994.0	920.9	866.2	838.9	827.4	823.0
10°	1601.4	1488.8	1273.9	1081.8	938.1	842.7	770.2	716.1	686.2	673.5	667.2
12.5°	1636.4	1479.9	1192.5	963.5	811.5	716.1	628.4	561.6	527.2	512.6	505.6
15°	1679.6	1471.0	1107.3	852.2	700.2	583.8	487.8	442.6	435.7	433.1	433.7
17.5°	1722.3	1457.0	1014.4	742.2	583.2	456.0	407.0	404.5	405.8	405.8	405.8
20°	1760.4	1425.2	913.3	648.1	471.9	384.8	374.6	370.1	367.0	364.4	361.2
22.5°	1790.3	1382.6	816.0	554.6	385.4	352.3	336.4	322.4	311.0	303.4	299.5
25°	1810.7	1326.0	726.9	464.9	346.6	320.5	291.9	268.4	250.6	239.8	235.3
27.5°	1825.9	1265.0	647.4	389.2	319.9	283.7	246.1	218.1	199.7	190.2	186.3
30°	1836.7	1195.7	577.5	342.2	290.0	244.9	204.8	177.4	164.1	159.0	156.5
32.5°	1846.9	1118.7	511.3	319.9	262.0	209.2	171.7	150.7	142.5	136.1	134.2
35°	1872.3	1047.5	448.4	296.4	233.4	178.7	147.5	132.3	124.0	120.2	118.9
37.5°	1932.8	994.7	388.0	272.2	204.8	154.5	129.1	118.3	110.7	106.8	105.6
40°	2030.1	968.0	337.1	246.1	176.8	136.1	117.0	106.8	98.6	92.9	91.6
42.5°	2173.2	971.8	301.5	220.1	154.5	121.5	105.6	93.5	84.6	79.5	78.2
45°	2346.8	999.8	276.7	194.6	136.1	110.0	92.9	80.1	71.9	67.4	66.1
47.5°	2535.0	1044.9	256.3	171.7	121.5	99.2	80.1	66.8	59.8	56.0	55.3
50°	2733.5	1088.8	235.3	149.5	108.8	88.4	67.4	55.3	49.6	46.4	45.2
52.5°	2934.4	1139.7	216.2	129.1	97.9	75.7	56.0	45.2	40.7	38.2	36.9
55°	3150.7	1177.8	197.8	113.2	87.1	64.2	46.4	37.5	33.7	30.5	29.9
57.5°	3405.1	1237.0	178.7	97.9	74.4	53.4	38.2	29.9	26.7	23.5	22.9
60°	3748.5	1306.3	158.4	86.5	61.1	43.9	31.2	24.2	20.4	17.8	17.2
62.5°	4201.3	1383.3	132.9	75.7	49.6	35.6	24.8	19.1	14.6	11.4	11.4
65°	4775.6	1508.6	108.8	63.6	40.7	29.3	19.1	14.0	8.3	5.1	5.1
67.5°	5110.8	1530.2	87.8	52.2	33.1	24.8	15.9	9.5	2.5	0.6	0.0
69°	*5003.3*	*1404.9*	*74.4*	*44.5*	*28.6*	*23.5*	*14.6*	*7.0*	*1.3*	*0.0*	*0.0*
70°	4801.1	1284.7	65.5	39.4	26.1	22.3	14.0	5.1	1.3	0.0	0.0
72.5°	3967.3	914.5	49.6	29.3	19.1	19.7	12.7	3.2	1.3	0.0	0.0
75°	2889.9	555.9	35.6	20.4	12.1	14.6	8.9	1.3	0.6	0.0	0.0
77.5°	1607.8	262.0	22.3	11.4	7.6	8.9	4.5	0.0	0.0	0.0	0.0
80°	522.1	71.2	10.2	6.4	4.5	5.1	1.9	0.0	0.0	0.0	0.0
82.5°	96.7	20.4	5.7	3.2	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	21.0	8.3	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.5	0.6	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

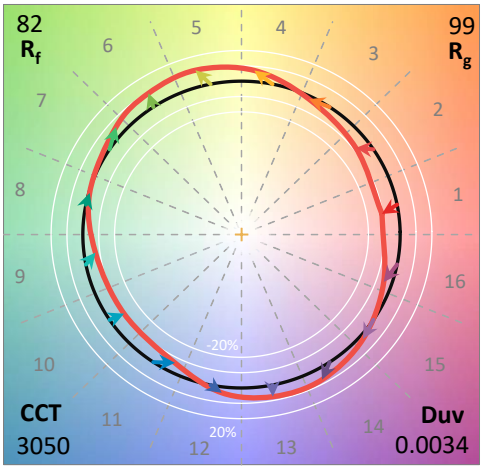
Test Information

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

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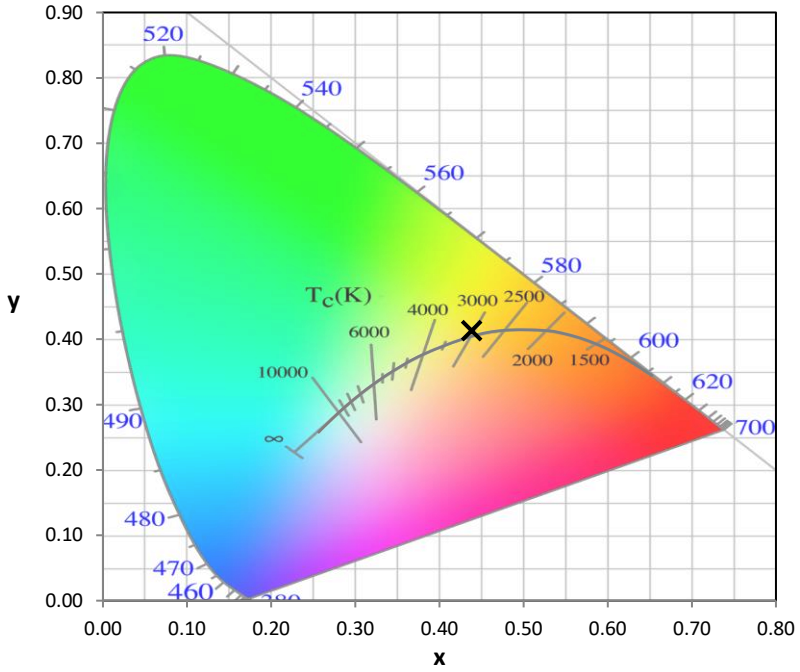
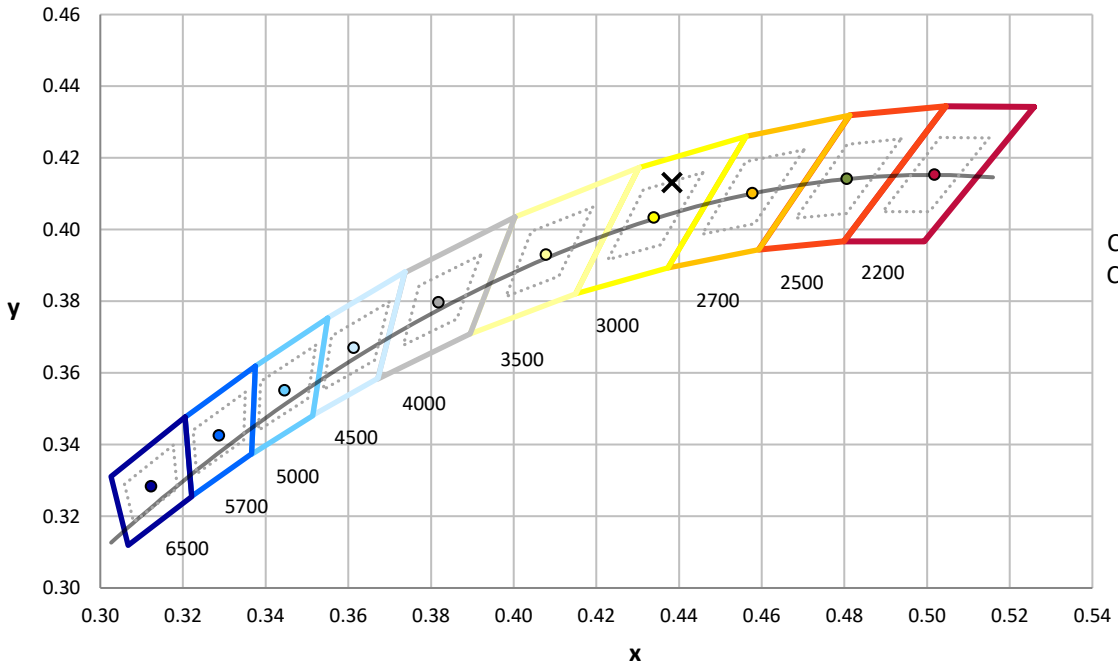
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

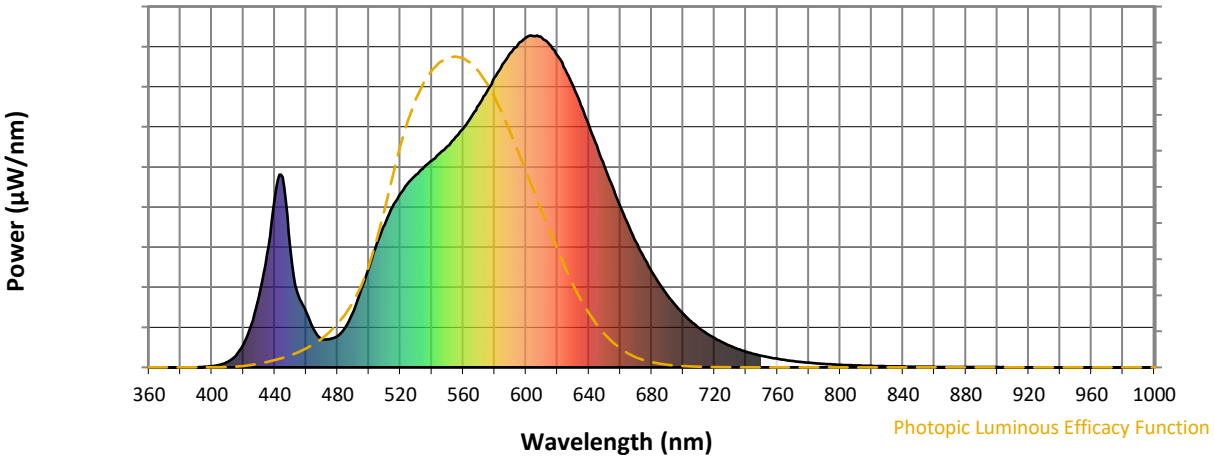


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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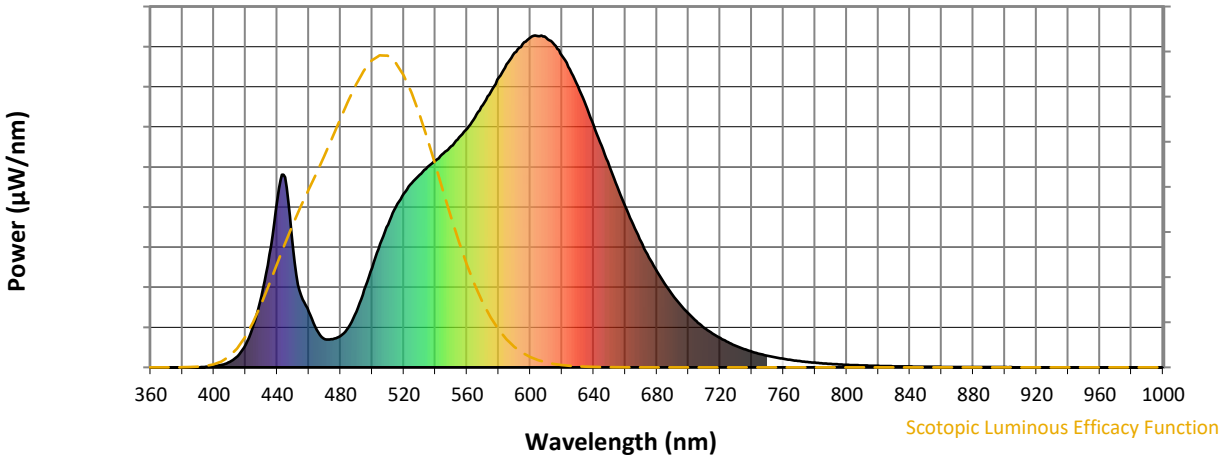
Scotopic Flux vs. Wavelength



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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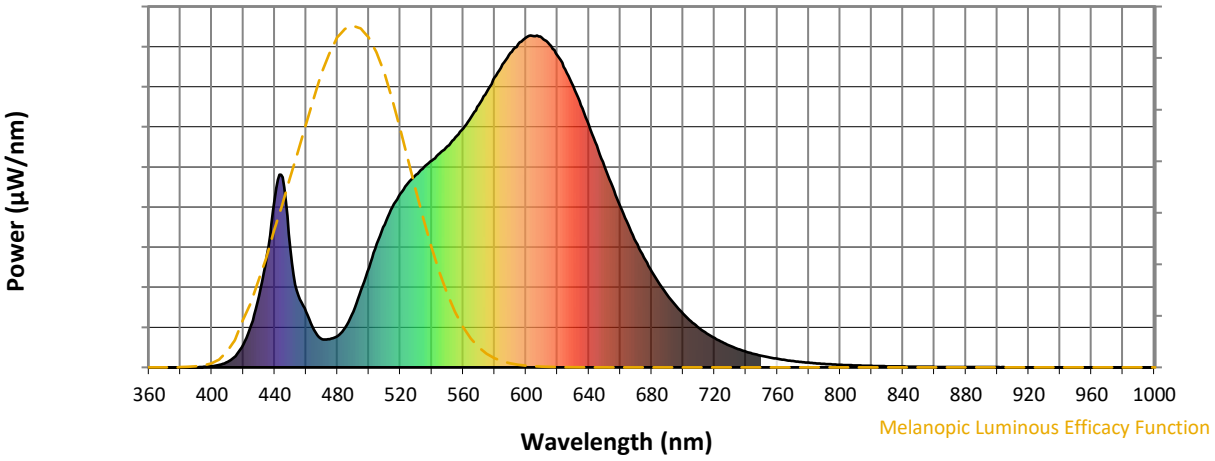
Melanopic Flux vs. Wavelength



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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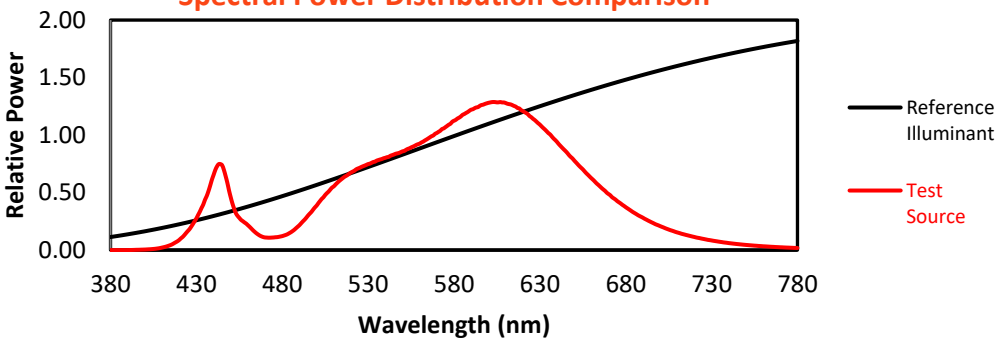
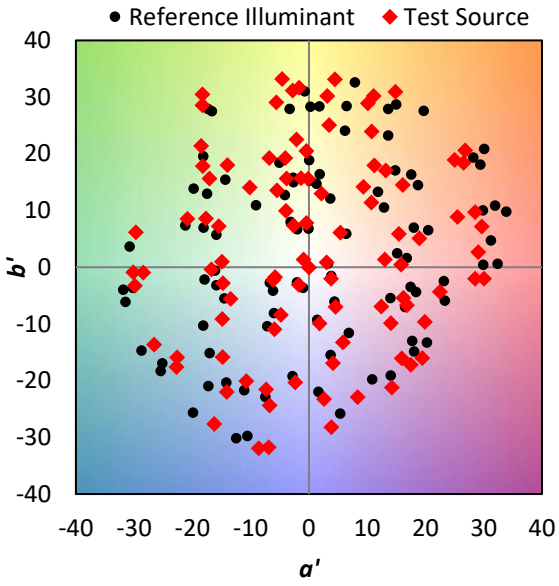
Summary

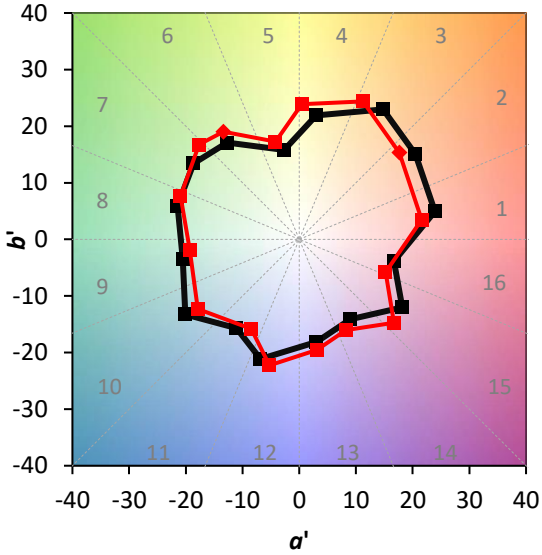
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

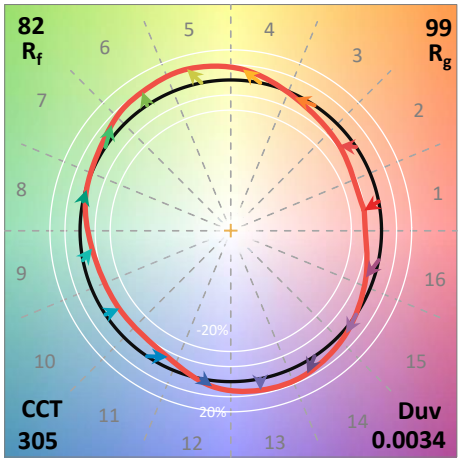
Spectral Power Distribution Comparison

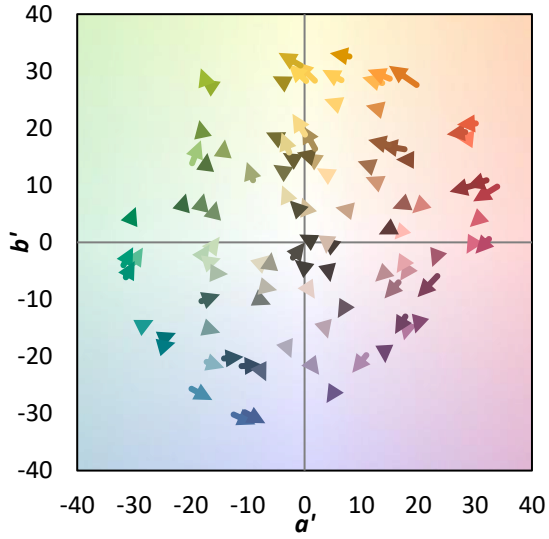


Color Vector Graphics









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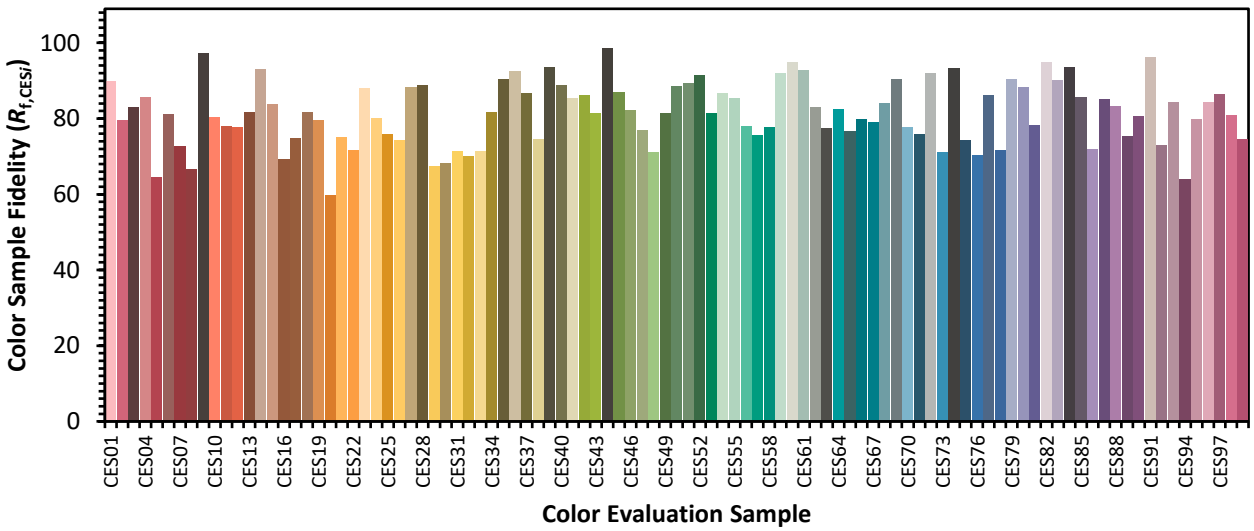
Individual Sample Fidelity Index ($R_{f,i}$)

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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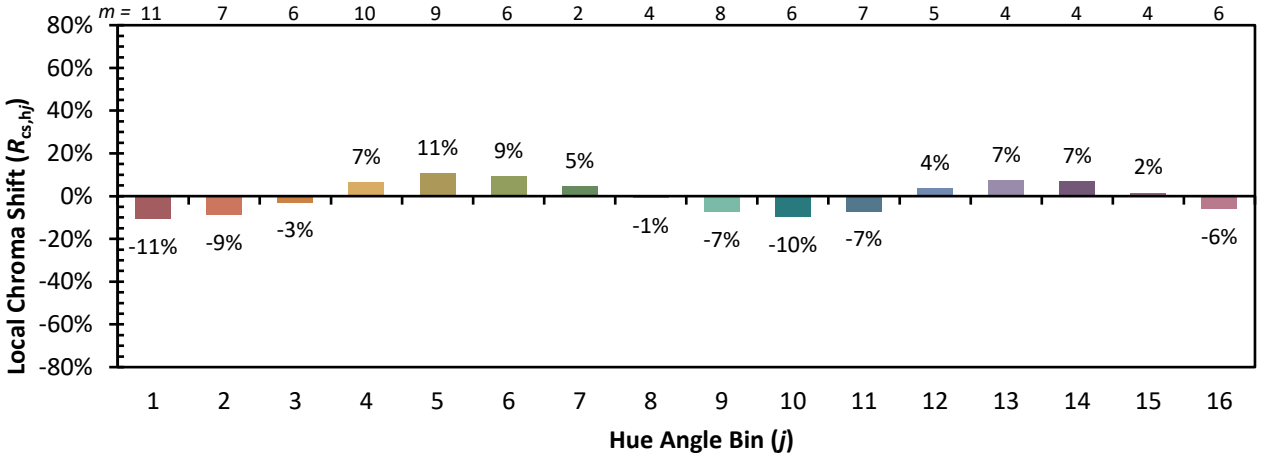
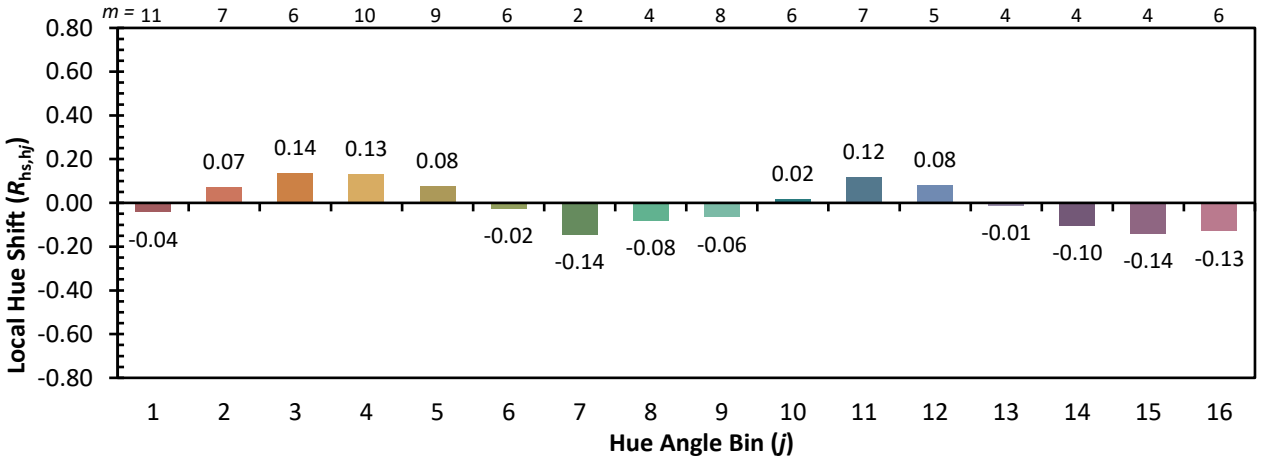
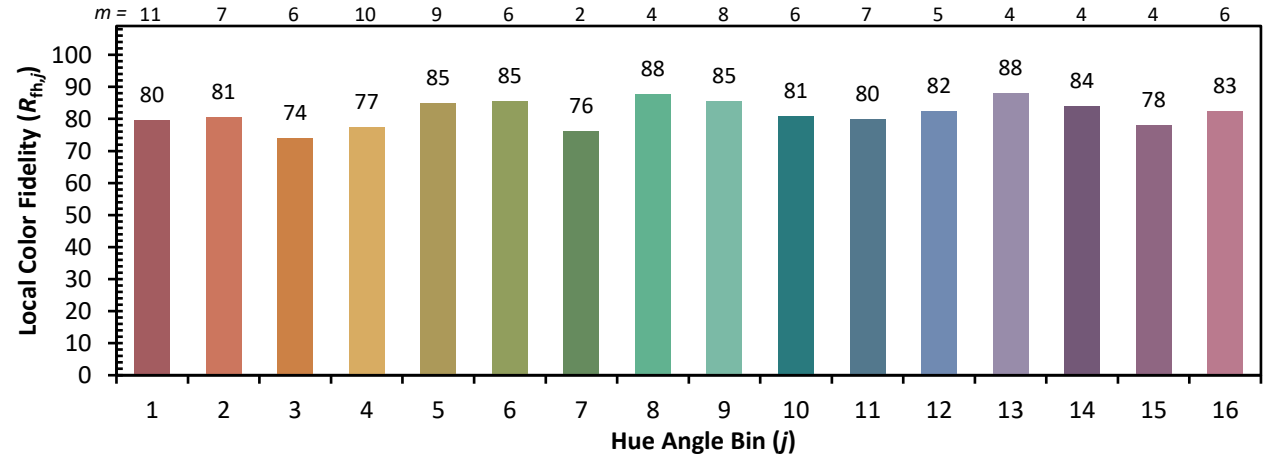
Color Rendition by Hue-Angle Bin







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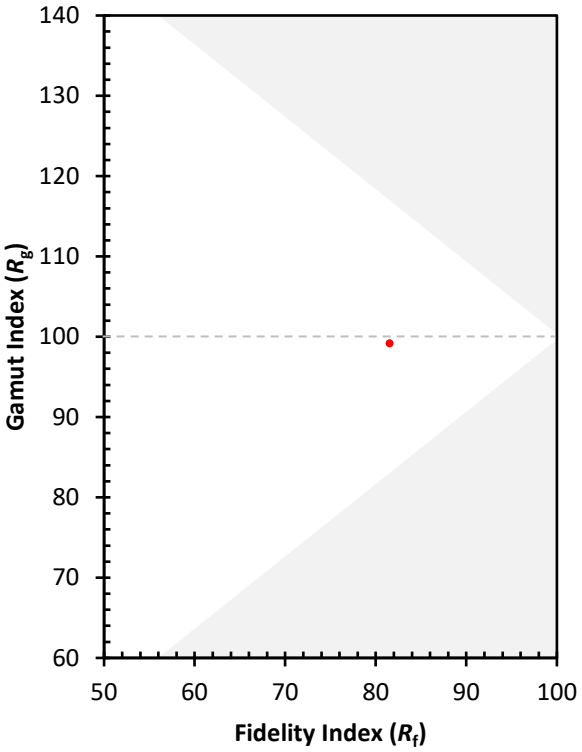
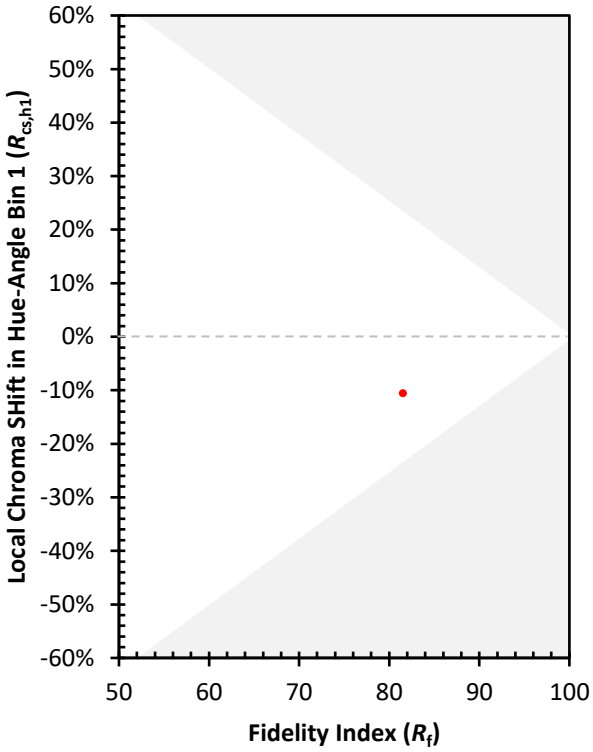
Measure Comparisons





(END OF REPORT)