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: P319536

Luminaire Tested: **GLEON-SA2D-830-U-SL2**

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:	P319536
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA2D-830-U-SL2
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12358 lumens
Efficiency:	N/A
Efficacy:	95.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	129
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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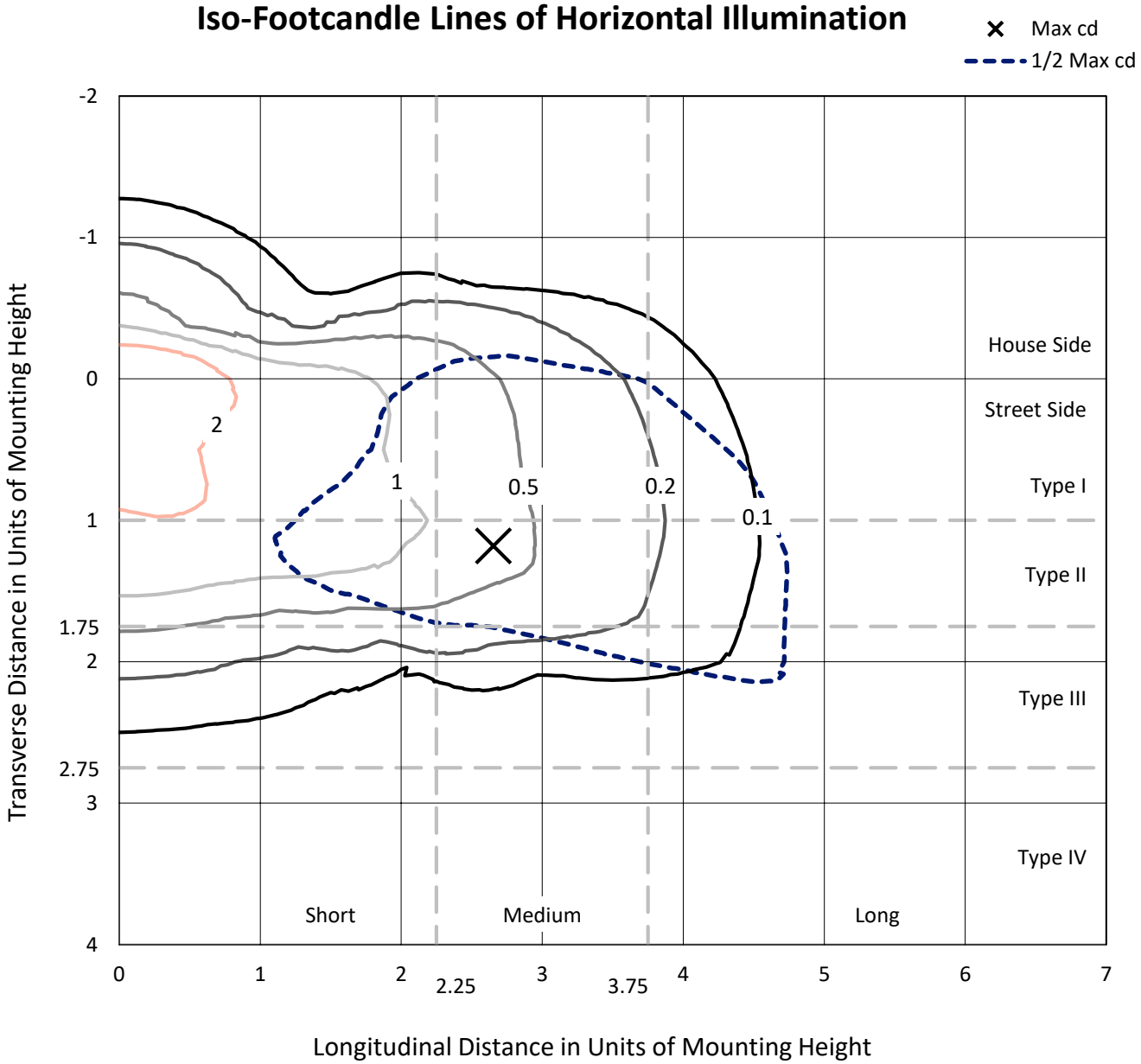
Scaled Data Report

REPORT NUMBER: P319536
CATALOG NUMBER: GLEON-SA2D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Medium - N/A

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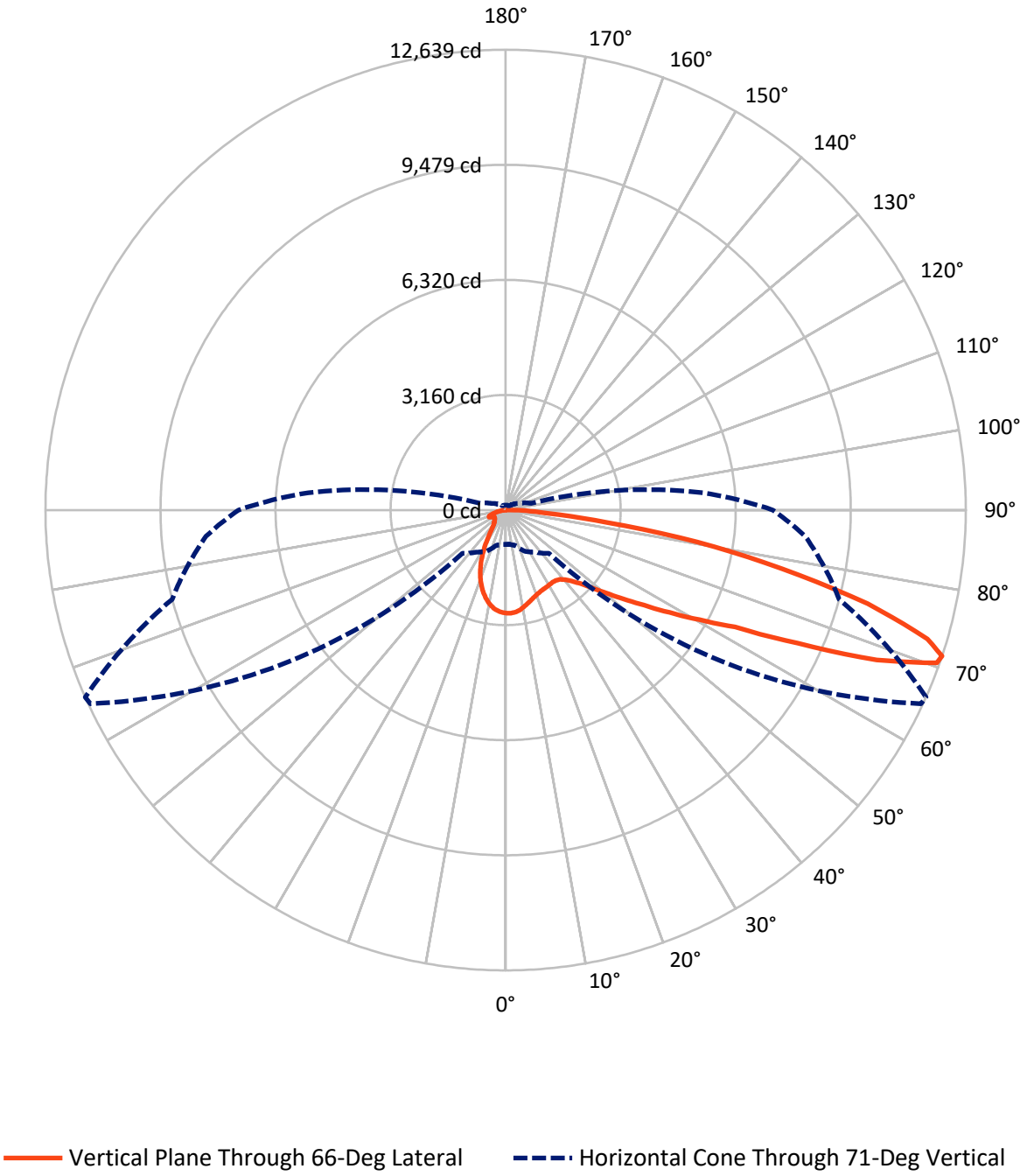
Luminous Intensity Polar Plot



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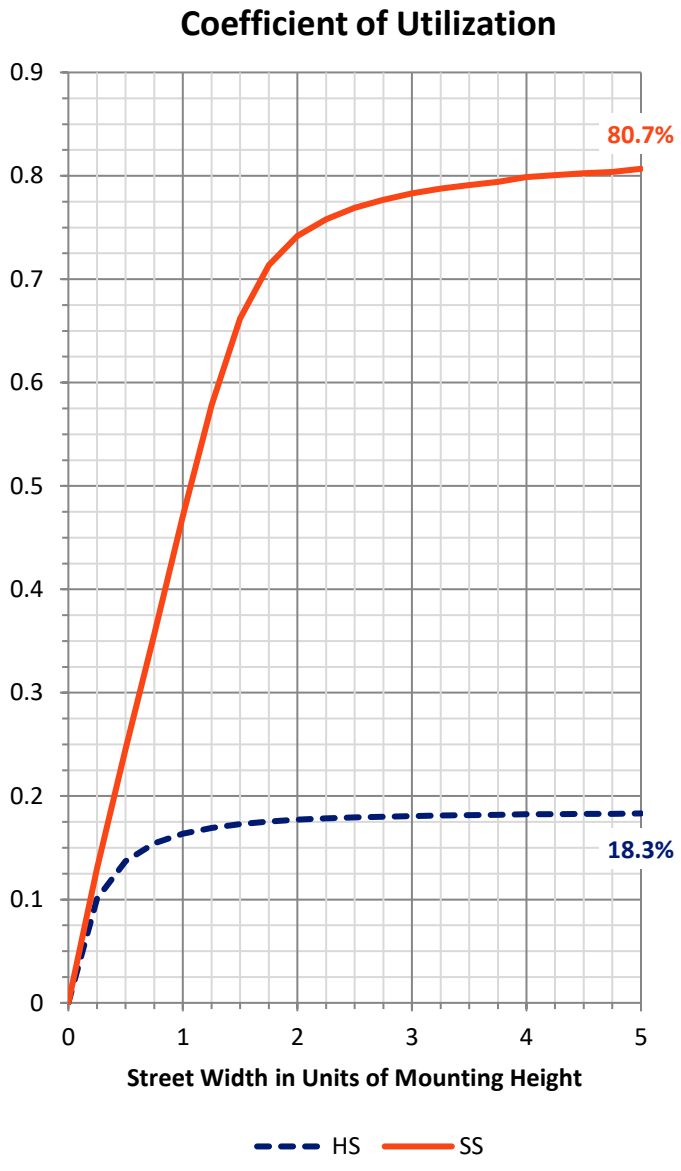
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2290.3	0.0	2290.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10067.7	0.0	10067.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	12358.0	0.0	12358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	2.0
10°-20°	597.7	4.8
20°-30°	802.8	6.5
30°-40°	1056.1	8.5
40°-50°	1536.4	12.4
50°-60°	2399.9	19.4
60°-70°	3006.3	24.3
70°-80°	2293.2	18.6
80°-90°	416.4	3.4
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°	12358.0	100.0
0°-180°	12358.0	100.0



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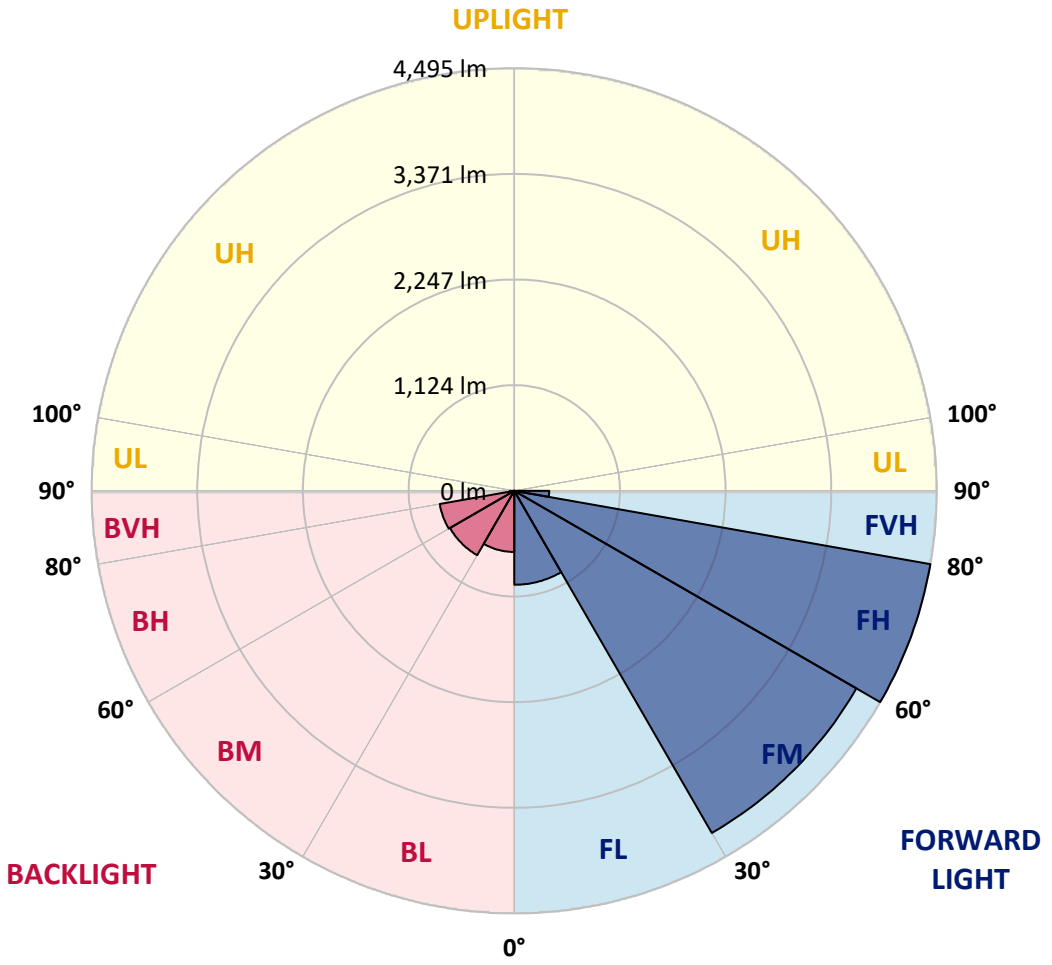
REPORT NUMBER: P319536
CATALOG NUMBER: GLEON-SA2D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	999.3	8.1			
FM	(30°-60°)	4202.3	34.0			
FH	(60°-80°)	4494.7	36.4			G2/5000
FVH	(80°-90°)	371.3	3.0			G3/500
BL	(0°-30°)	650.4	5.3	B2/1000		
BM	(30°-60°)	790.1	6.4	B1/1000		
BH	(60°-80°)	804.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	45.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Medium



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REPORT NUMBER: P319536
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	*2831.0*	2831.0	2831.0
2.5°	2778.5	2774.2	2787.0	2800.3	2805.4	2813.9	2826.7	2834.0	*2833.5*	2834.8	2830.6
5°	2594.2	2588.6	2614.2	2635.1	2675.2	2720.5	2775.5	2814.8	*2815.6*	2837.8	2843.8
7.5°	2419.7	2415.8	2445.3	2479.0	2525.5	2594.6	2683.8	2768.3	*2773.4*	2833.5	2854.4
10°	2279.7	2278.9	2307.5	2344.1	2398.3	2475.6	2578.0	2701.7	*2709.4*	2813.1	2856.2
12.5°	2170.5	2172.2	2196.9	2238.8	2295.9	2376.6	2487.5	2627.0	*2639.4*	2780.6	2846.3
15°	2089.8	2096.7	2116.7	2159.0	2215.3	2297.2	2411.1	2557.9	*2576.7*	2744.4	2840.8
17.5°	2043.8	2051.4	2065.5	2100.5	2153.4	2232.4	2340.3	2501.2	*2518.2*	2716.6	2841.2
20°	2030.1	2036.5	2044.6	2066.0	2110.8	2182.4	2284.4	2450.0	*2468.3*	2694.4	2845.5
22.5°	2057.0	2061.7	2062.5	2060.8	2088.1	2146.6	2243.9	2412.4	*2432.0*	2679.9	2848.5
25°	2114.6	2121.0	2116.3	2100.5	2091.6	2127.4	2223.0	2387.7	*2407.3*	2669.3	2842.5
27.5°	2201.2	2202.1	2198.2	2177.7	2135.5	2129.5	2216.6	2373.2	*2391.9*	2656.9	2830.1
30°	2319.0	2324.5	2317.7	2290.0	2220.8	2163.7	2224.2	2359.1	*2376.1*	2641.1	2810.1
32.5°	2456.8	2470.4	2470.0	2441.0	2342.0	2240.0	2255.8	2350.5	*2363.8*	2624.5	2785.8
35°	2599.7	2618.5	2653.5	2641.1	2518.7	2360.8	2316.4	2364.2	*2373.2*	2622.3	2768.7
37.5°	2748.2	2767.0	2839.1	2872.4	2729.0	2533.6	2412.0	2412.4	*2416.7*	2648.4	2767.4
40°	2903.5	2923.6	3031.9	3118.6	3001.6	2752.5	2566.0	2513.1	*2508.4*	2712.4	2792.6
42.5°	3121.1	3139.0	3269.2	3379.7	3304.2	3032.8	2778.9	2668.4	*2658.6*	2837.8	2873.2
45°	3396.3	3411.7	3549.9	3668.1	3629.3	3352.8	3046.4	2882.2	*2880.5*	3046.9	3036.6
47.5°	3723.6	3735.5	3859.7	3974.0	3988.1	3721.0	3382.7	3212.0	*3184.3*	3333.6	3289.7
50°	4064.5	4077.7	4162.2	4285.1	4389.6	4213.8	3815.3	3616.1	*3578.9*	3712.1	3648.1
52.5°	4290.2	4307.7	4381.1	4536.8	4841.0	4754.0	4326.9	4105.9	*4049.6*	4170.7	4121.7
55°	4189.5	4228.8	4341.0	4590.6	5202.0	5579.2	4957.9	4677.2	*4613.6*	4714.3	4685.3
57.5°	3731.7	3785.4	3938.6	4323.9	5252.8	6306.2	5912.0	5350.1	*5305.3*	5276.2	5289.5
60°	2895.0	2946.6	3136.5	3638.7	4899.1	6837.0	7347.7	6179.5	*6114.7*	5840.3	5852.3
62.5°	2048.9	2022.9	2153.0	2520.4	3980.9	6899.3	8981.5	7288.9	*7075.5*	6435.9	6383.5
65°	1562.5	1556.5	1615.0	1731.9	2411.1	6153.9	9954.7	9153.4	*8820.2*	7136.5	7012.8
67.5°	1283.9	1273.2	1330.8	1501.0	1552.7	3970.2	9976.1	11316.7	*10989.4*	8008.7	7740.7
70°	1055.6	1043.6	1097.4	1317.1	1434.9	2013.5	8396.1	12583.5	*12566.0*	9112.9	8290.3
71°	*946.4*	*937.8*	*1002.3*	*1246.3*	*1409.7*	*1678.1*	*7249.2*	*12586.9*	*12639.3*	*9486.7*	*8257.8*
72.5°	770.6	773.6	841.8	1109.4	1391.0	1481.8	5327.9	12000.2	*12111.1*	9842.9	7963.0
75°	512.0	514.6	604.2	853.3	1348.7	1449.8	2928.3	10069.5	*10273.4*	9629.6	7266.2
77.5°	343.9	343.0	404.1	585.4	1175.1	1449.8	1716.9	7531.2	*7755.2*	7662.2	5601.8
80°	236.8	235.1	278.2	404.1	889.6	1467.3	1327.4	5278.0	*5345.8*	4137.9	2276.7
82.5°	145.1	146.3	181.8	285.4	605.4	1320.6	1253.1	2877.9	*2804.1*	1160.6	568.8
85°	83.2	82.8	116.1	193.3	388.7	1114.5	1222.0	1238.6	*1136.2*	349.4	205.7
87.5°	29.9	32.0	62.3	107.1	222.7	776.1	1036.8	644.3	*580.7*	157.9	93.0
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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Scaled Data Report

REPORT NUMBER: P319536
CATALOG NUMBER: GLEON-SA2D-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0
2.5°	2827.6	2830.1	2827.1	2810.1	2795.6	2772.1	2758.9	2740.5	2735.0	2732.4	2739.2
5°	2838.2	2839.1	2813.9	2769.1	2718.8	2659.5	2616.8	2564.3	2539.6	2528.9	2535.7
7.5°	2848.0	2844.2	2789.2	2703.4	2610.4	2507.1	2415.4	2331.3	2282.3	2262.2	2263.9
10°	2849.3	2833.1	2744.8	2612.1	2467.9	2316.4	2175.6	2045.9	1964.0	1910.6	1926.9
12.5°	2836.1	2808.8	2679.5	2493.9	2293.8	2087.3	1897.0	1702.4	1585.5	1531.3	1533.0
15°	2825.9	2776.4	2599.3	2354.8	2086.0	1812.5	1552.7	1324.0	1199.4	1143.9	1117.9
17.5°	2817.3	2741.4	2506.3	2198.2	1840.7	1493.8	1181.5	977.5	909.2	893.0	886.2
20°	2805.4	2704.3	2402.6	2016.9	1561.2	1137.1	862.7	762.0	762.5	781.2	783.8
22.5°	2788.7	2662.0	2292.1	1813.4	1261.2	828.2	676.3	647.3	676.7	712.5	718.9
25°	2764.0	2612.1	2169.2	1588.5	961.7	636.6	577.7	576.4	612.3	649.8	655.4
27.5°	2729.0	2546.8	2032.7	1347.0	708.7	541.0	517.6	526.5	553.0	580.3	582.4
30°	2682.1	2470.9	1882.1	1092.3	555.5	481.7	479.2	487.3	503.5	522.7	524.4
32.5°	2630.4	2393.6	1721.2	845.7	475.7	449.7	452.3	456.1	463.8	471.5	473.2
35°	2583.5	2314.7	1556.5	642.6	437.8	428.8	427.1	426.2	427.1	424.5	425.0
37.5°	2553.2	2249.4	1385.0	511.6	416.0	410.5	405.3	398.9	391.7	387.4	388.3
40°	2542.1	2200.8	1211.3	442.0	398.1	394.2	384.4	370.8	362.2	359.7	359.7
42.5°	2572.0	2175.6	1043.6	407.0	383.2	376.8	360.5	344.8	338.4	337.9	337.5
45°	2663.3	2185.8	884.1	387.8	369.5	357.1	335.8	322.6	318.3	319.2	318.7
47.5°	2827.1	2250.3	747.5	375.0	355.8	339.6	315.7	305.1	300.0	300.0	300.4
50°	3105.8	2400.9	638.7	364.4	344.3	323.4	301.2	288.0	281.2	280.8	280.8
52.5°	3511.5	2670.5	570.9	355.4	331.5	308.9	286.7	270.1	262.0	260.3	259.4
55°	4020.1	3057.1	552.1	349.4	314.5	293.1	269.2	252.6	243.6	239.8	239.4
57.5°	4588.9	3527.3	589.2	342.2	297.0	274.4	250.0	234.2	224.9	220.2	219.7
60°	5164.5	4040.6	740.7	332.0	282.5	253.9	230.4	215.9	206.5	201.4	200.5
62.5°	5740.9	4581.6	1050.0	331.1	272.2	234.2	210.4	198.0	189.0	183.5	182.2
65°	6391.1	5173.8	1401.6	353.7	268.8	216.3	189.9	180.1	172.4	167.3	166.8
67.5°	7137.8	5842.4	1367.9	400.2	280.3	200.1	170.7	163.0	157.4	153.2	152.7
70°	7488.1	5737.9	850.4	433.1	296.5	184.3	152.3	146.8	142.5	139.5	138.2
71°	*7341.3*	*5448.2*	*713.0*	*429.2*	*294.8*	*177.5*	*145.1*	*140.8*	*136.5*	*134.0*	*132.7*
72.5°	6941.1	4968.6	594.8	399.4	275.6	165.1	135.7	131.4	127.6	124.6	123.7
75°	6228.6	4437.4	476.2	319.2	219.7	139.5	119.0	114.3	111.4	109.7	107.9
77.5°	4578.6	3166.8	368.2	252.2	161.7	113.9	101.5	98.1	95.1	92.6	91.3
80°	1754.1	1226.7	247.9	188.2	118.6	90.0	81.9	80.2	77.2	75.5	75.5
82.5°	472.3	366.5	132.3	113.9	79.4	65.7	62.7	61.9	59.3	55.9	56.3
85°	191.1	161.7	74.2	62.7	48.6	38.8	42.2	42.7	39.7	35.4	35.8
87.5°	84.1	68.7	41.4	27.7	21.3	14.9	19.2	19.2	17.5	14.5	13.2
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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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

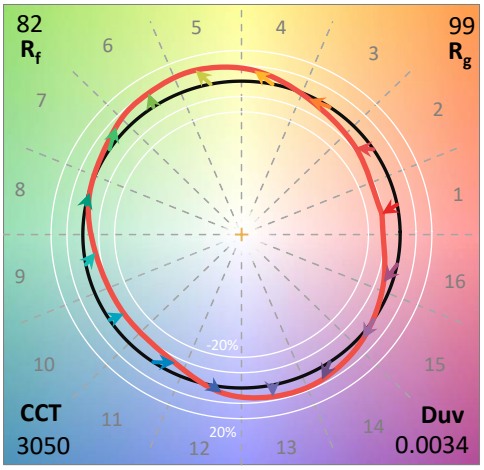
Test Information

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

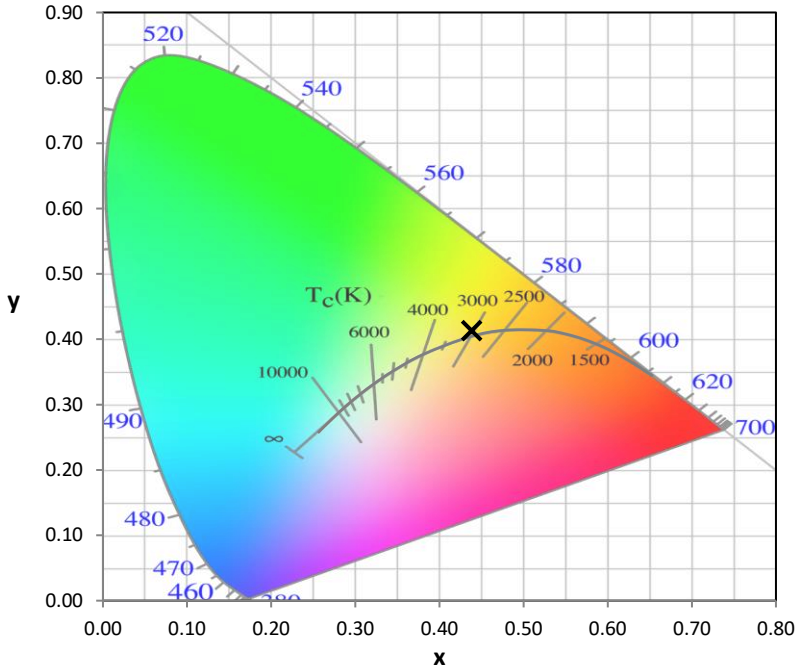
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

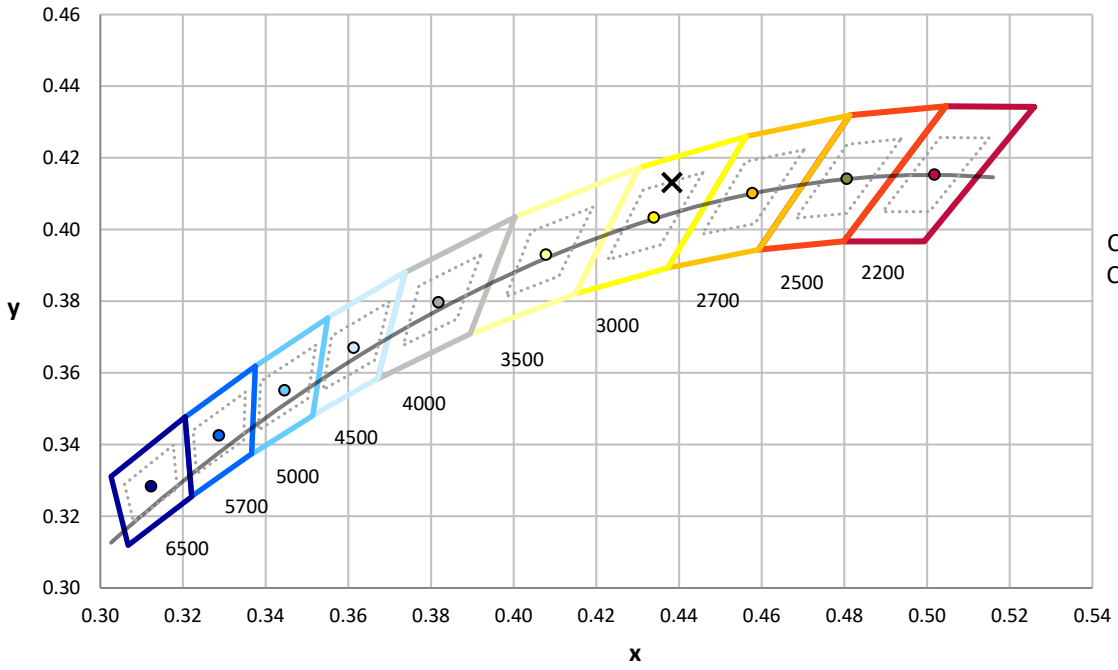
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

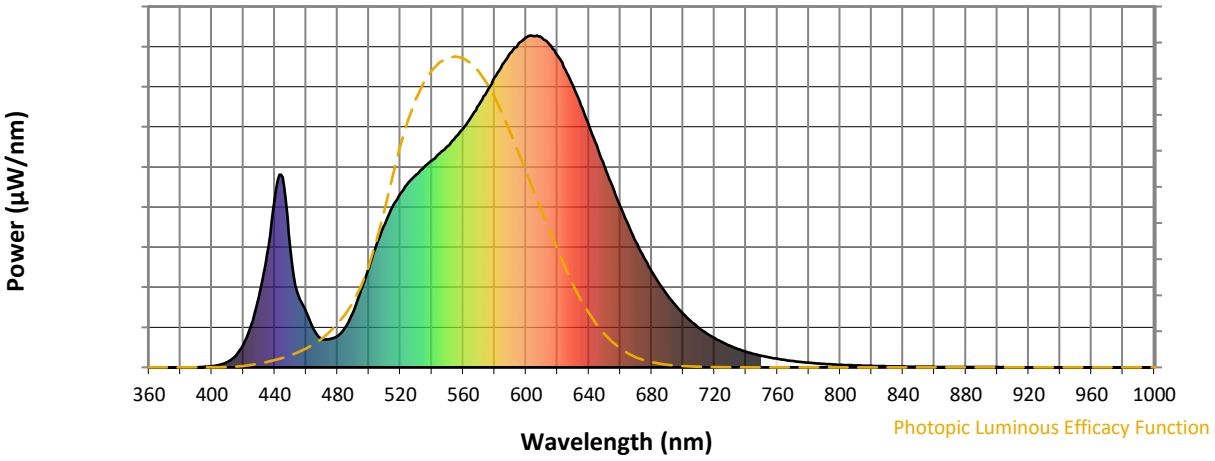


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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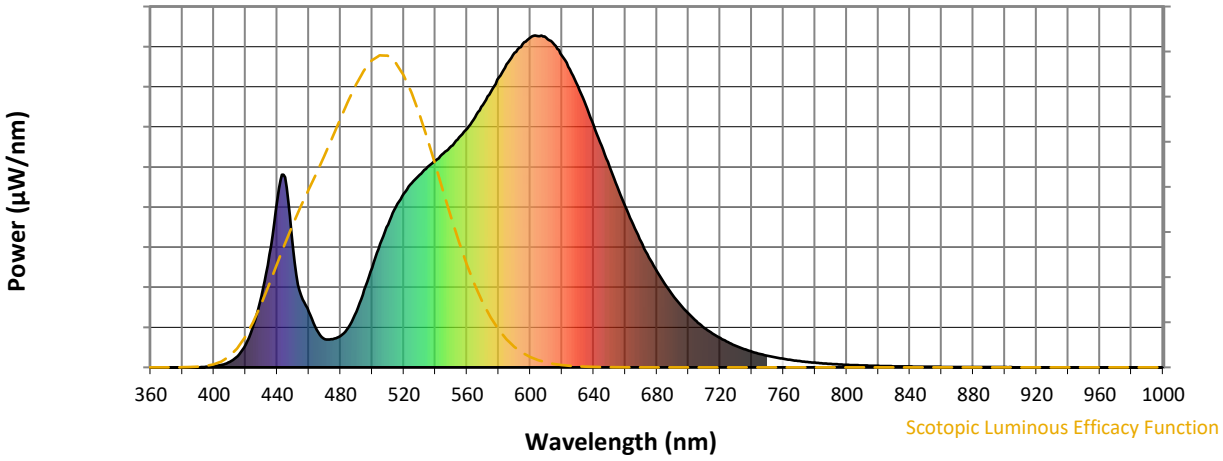
Scotopic Flux vs. Wavelength



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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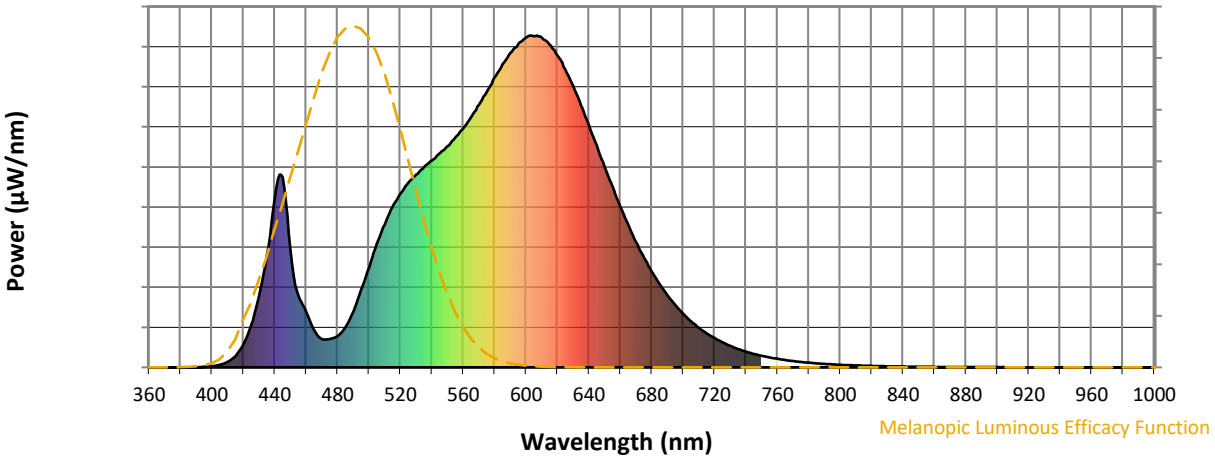
Melanopic Flux vs. Wavelength



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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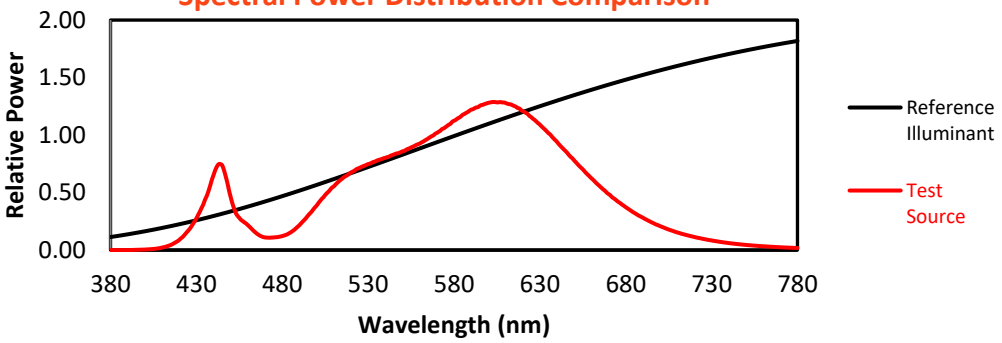
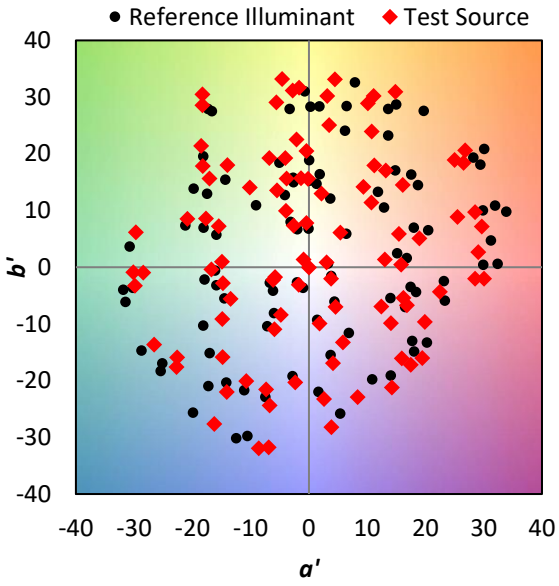
Summary

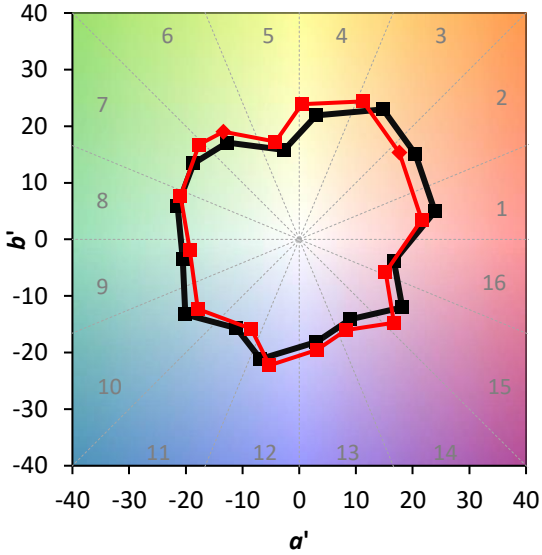
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

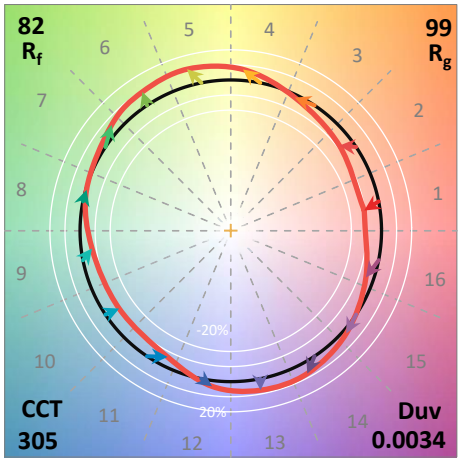
Spectral Power Distribution Comparison

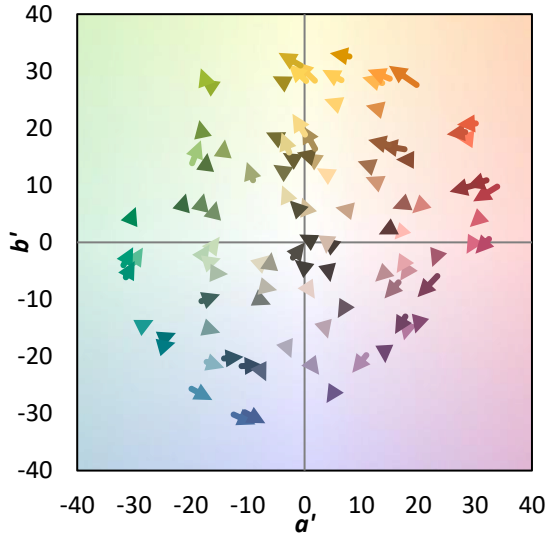


Color Vector Graphics









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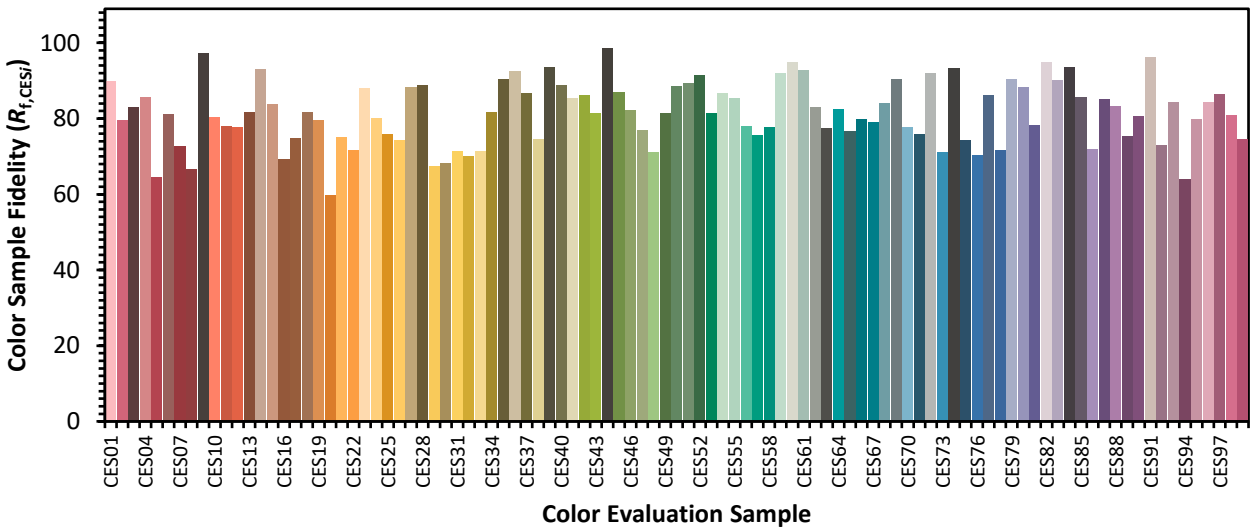
Individual Sample Fidelity Index ($R_{f,i}$)

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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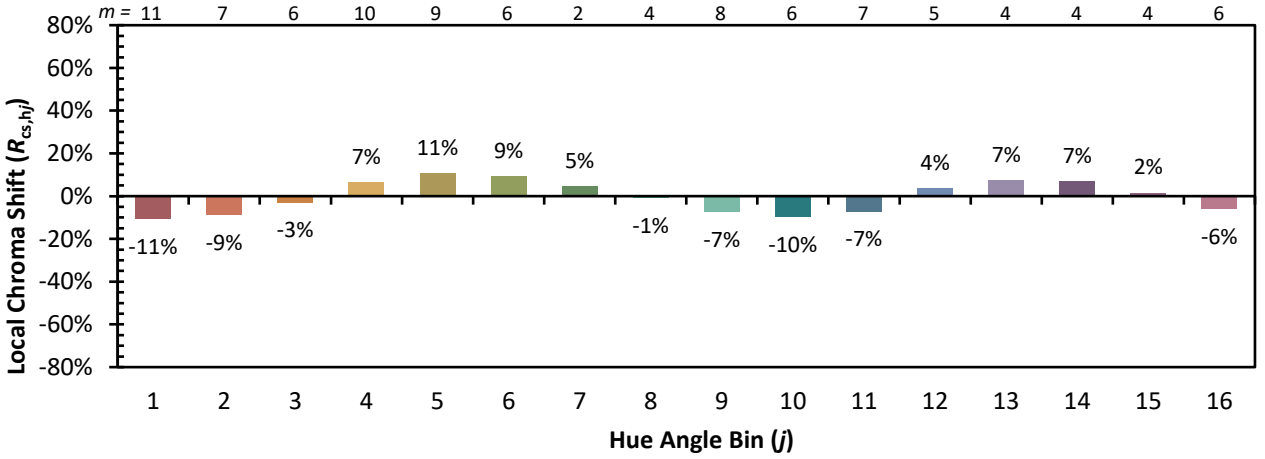
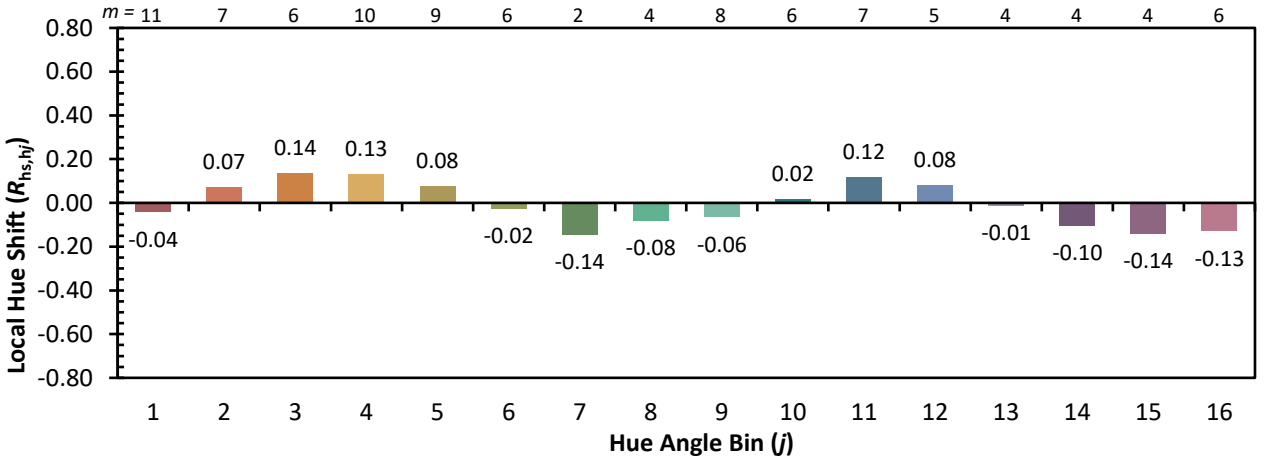
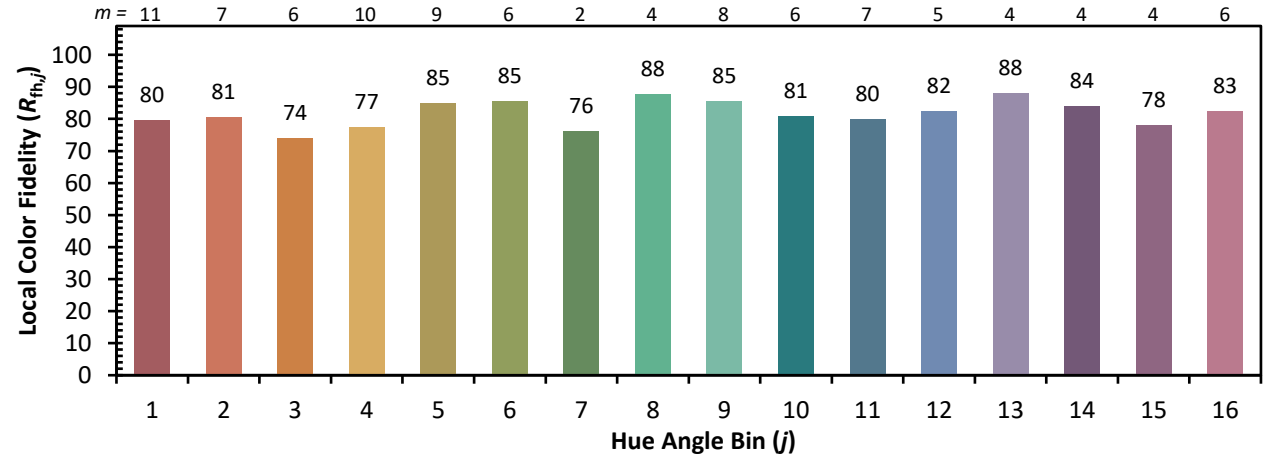
Color Rendition by Hue-Angle Bin







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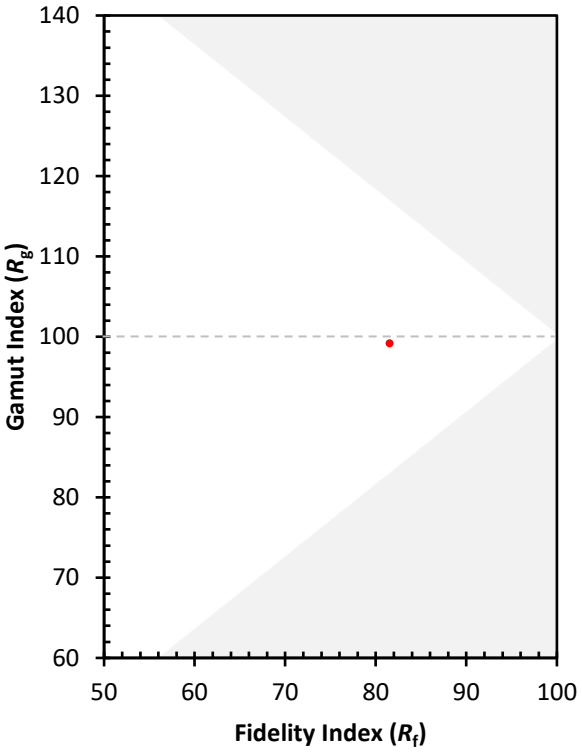
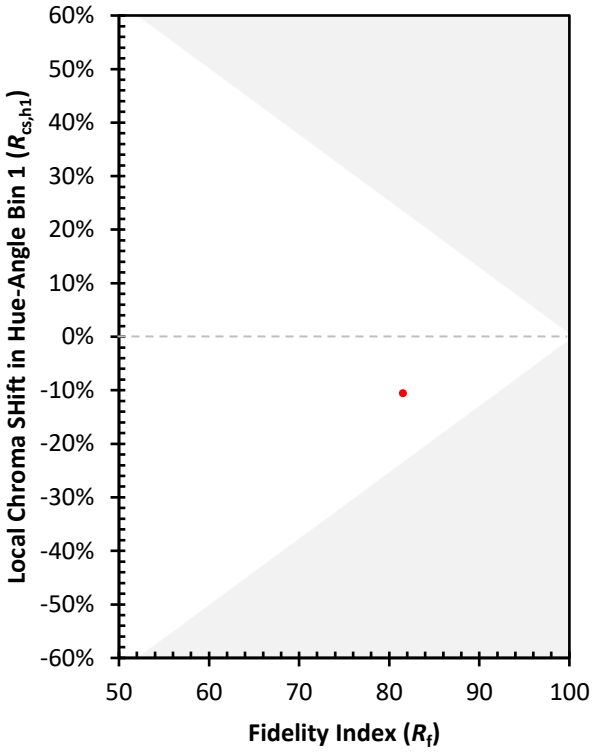
Measure Comparisons





(END OF REPORT)