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: P318567

Luminaire Tested: **GLEON-SA3C-830-U-T3**

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:	P318567
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3C-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17163 lumens
Efficiency:	N/A
Efficacy:	103.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	166
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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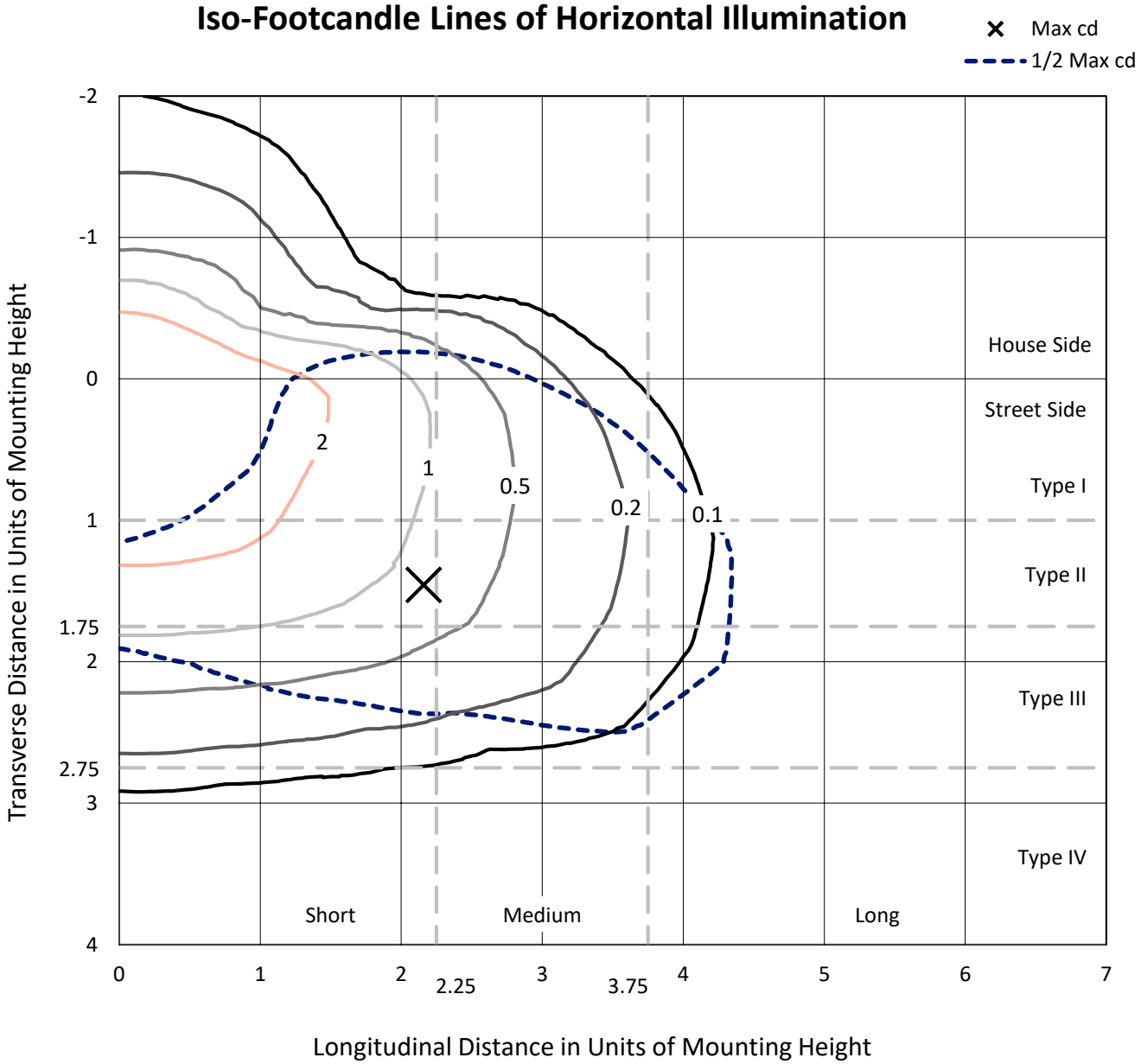
Scaled Data Report

REPORT NUMBER: P318567
CATALOG NUMBER: GLEON-SA3C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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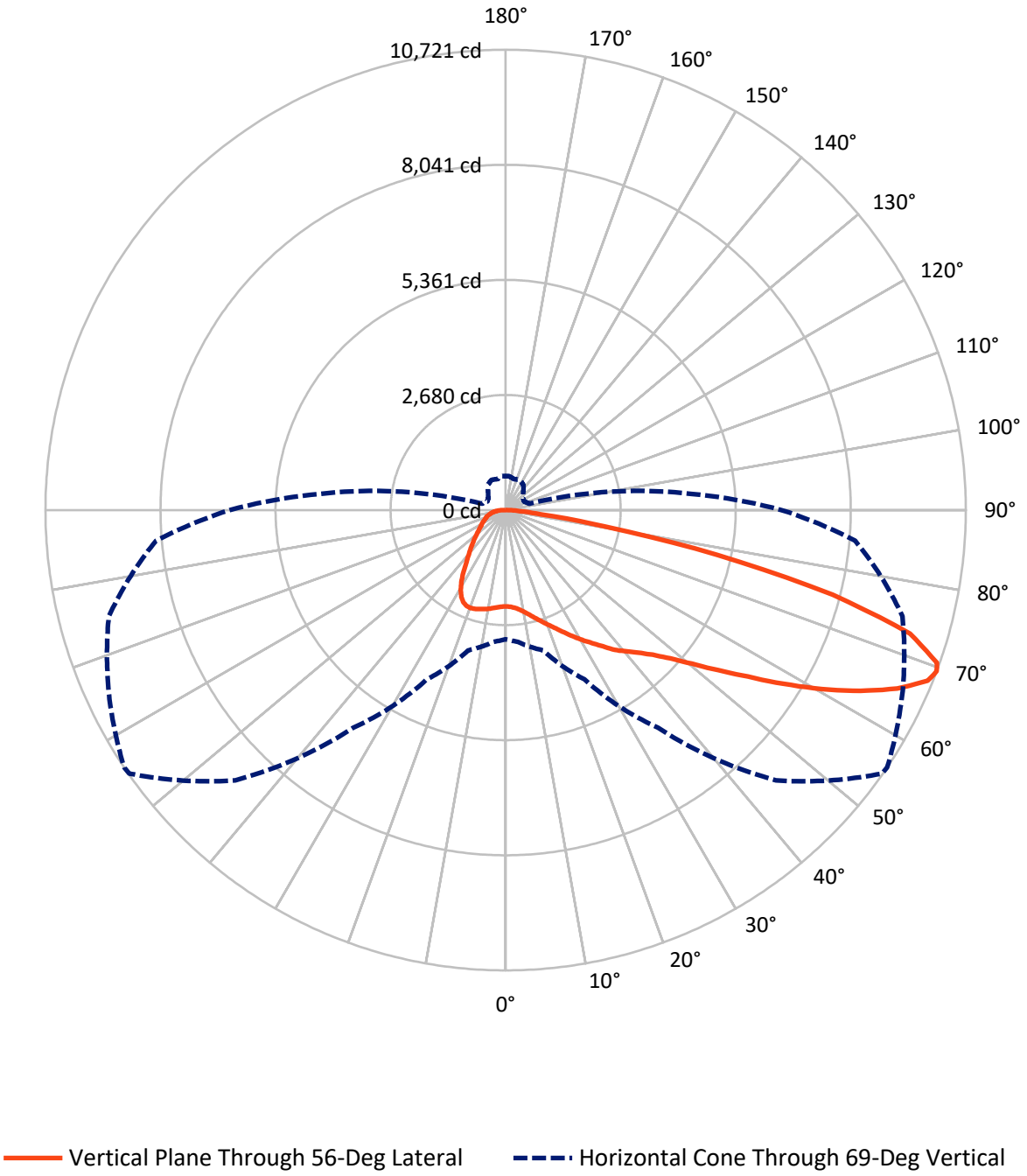
Luminous Intensity Polar Plot



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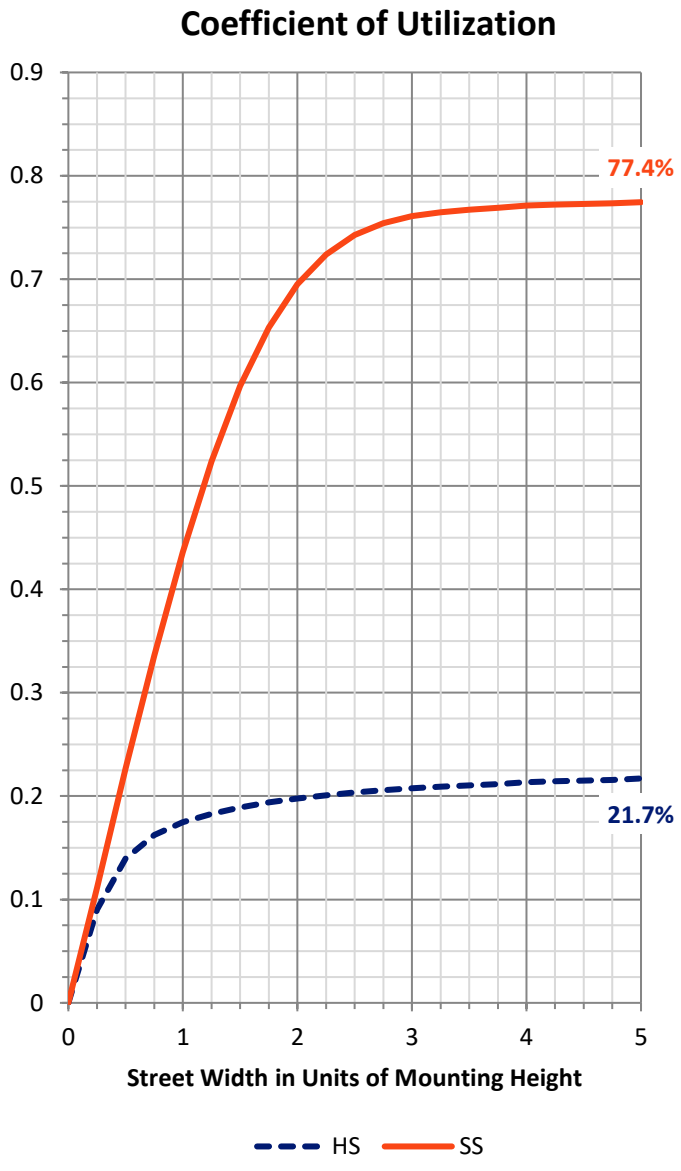
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3822.2	0.0	3822.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13340.8	0.0	13340.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	17163.0	0.0	17163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.3
10°-20°	708.6	4.1
20°-30°	1237.0	7.2
30°-40°	1776.9	10.4
40°-50°	2459.2	14.3
50°-60°	3603.1	21.0
60°-70°	4392.8	25.6
70°-80°	2428.6	14.2
80°-90°	336.4	2.0
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°	17163.0	100.0
0°-180°	17163.0	100.0



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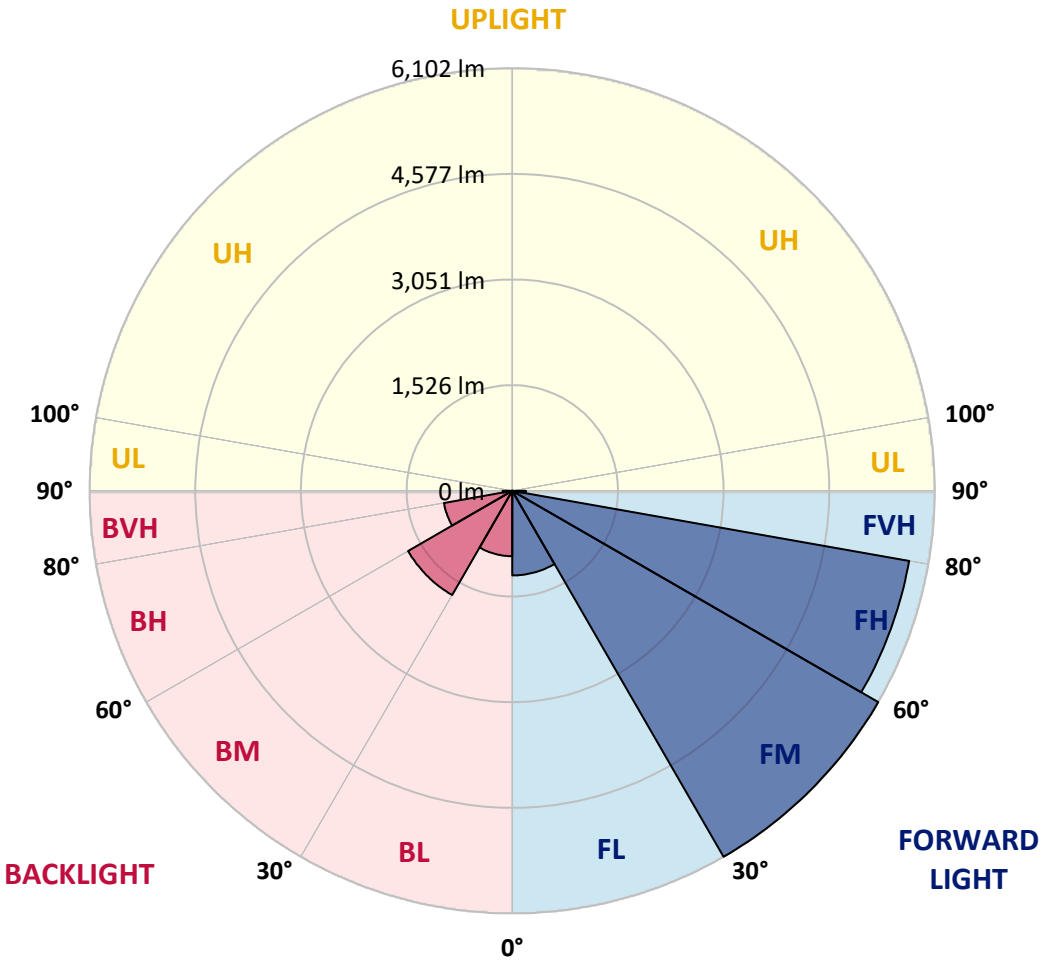
REPORT NUMBER: P318567
CATALOG NUMBER: GLEON-SA3C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1221.5	7.1			
FM	(30°-60°)	6102.1	35.6			
FH	(60°-80°)	5819.1	33.9			G3/7500
FVH	(80°-90°)	198.1	1.2			G2/225
BL	(0°-30°)	944.5	5.5	B2/1000		
BM	(30°-60°)	1737.1	10.1	B2/2500		
BH	(60°-80°)	1002.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	138.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Short



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REPORT NUMBER: P318567
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8
2.5°	2258.0	2260.4	2258.6	2263.3	2258.0	2261.5	2258.6	2258.6	2256.8	2251.5	2245.6
5°	2293.5	2298.2	2295.2	2300.0	2293.5	2294.7	2289.3	2289.3	2284.0	2272.8	2261.0
7.5°	2349.0	2354.4	2352.0	2356.7	2347.9	2347.9	2340.8	2340.2	2329.5	2311.2	2297.6
10°	2415.3	2422.4	2420.0	2427.1	2420.0	2422.4	2415.3	2415.3	2401.1	2375.1	2357.9
12.5°	2511.6	2520.5	2514.0	2513.4	2510.5	2515.2	2509.3	2508.1	2495.1	2459.6	2436.0
15°	2640.5	2650.0	2636.4	2635.2	2618.7	2616.9	2616.9	2615.1	2606.8	2564.3	2525.2
17.5°	2788.9	2791.9	2780.1	2761.1	2739.9	2726.3	2724.5	2729.2	2729.2	2679.6	2617.5
20°	2934.4	2939.7	2930.2	2909.0	2881.8	2861.7	2847.5	2856.9	2856.3	2797.2	2709.1
22.5°	3092.8	3105.3	3091.1	3063.9	3031.9	3009.5	2984.6	2992.9	2993.5	2920.8	2799.0
25°	3298.0	3286.8	3277.9	3239.5	3193.9	3170.9	3147.8	3156.1	3153.7	3053.8	2891.8
27.5°	3479.5	3481.9	3470.1	3429.3	3376.6	3325.8	3324.6	3329.9	3321.1	3192.2	2979.3
30°	3690.6	3691.8	3675.2	3638.6	3581.2	3515.6	3500.2	3509.1	3490.2	3323.4	3071.6
32.5°	3900.5	3906.4	3888.1	3843.7	3797.6	3717.8	3687.1	3693.0	3645.7	3457.6	3166.7
35°	4084.4	4092.7	4086.7	4057.2	4006.9	3938.3	3901.7	3898.1	3839.6	3622.0	3292.7
37.5°	4271.8	4279.5	4273.0	4248.2	4228.0	4155.3	4135.8	4135.8	4034.1	3789.9	3452.9
40°	4464.5	4476.4	4468.7	4434.4	4417.2	4384.1	4337.4	4326.2	4216.2	3991.5	3714.2
42.5°	4643.7	4659.1	4689.8	4669.7	4634.8	4639.6	4545.6	4539.6	4459.2	4289.5	4042.4
45°	4897.9	4920.4	4972.4	4957.1	4950.0	4924.0	4812.2	4806.9	4776.1	4690.4	4449.8
47.5°	5175.2	5206.0	5300.0	5302.9	5379.2	5330.1	5178.2	5159.9	5167.0	5170.5	4947.0
50°	5430.7	5464.4	5618.7	5691.4	5871.1	5881.8	5638.8	5622.2	5650.0	5731.6	5526.4
52.5°	5634.6	5677.2	5870.0	6094.6	6402.7	6490.2	6205.8	6193.4	6214.1	6354.8	6181.5
55°	5784.2	5830.3	6040.2	6449.4	6941.3	7095.6	6858.5	6846.7	6859.7	7038.9	6894.0
57.5°	5819.1	5830.3	6134.8	6688.3	7396.0	7766.7	7657.3	7633.7	7569.8	7725.9	7680.4
60°	5655.3	5700.3	6056.8	6772.2	7747.8	8428.3	8492.2	8462.6	8283.4	8411.2	8374.5
62.5°	5323.0	5403.5	5765.3	6644.5	7885.5	8968.7	9311.0	9275.6	8966.9	9049.7	8873.5
65°	4780.3	4814.6	5194.7	6204.0	7710.5	9314.6	10041.2	10023.5	9635.1	9505.6	8965.8
67.5°	3809.4	3873.9	4196.7	5283.4	6994.5	9273.8	10605.9	10604.1	10071.4	9674.7	8638.8
69°	3009.5	3076.3	3383.7	4352.2	6189.2	8900.7	10700.5	10721.2	10194.4	9571.8	8171.7
70°	2399.3	2476.8	2687.8	3665.8	5474.4	8408.8	10621.9	10659.1	10170.7	9402.1	7740.7
72.5°	1021.1	1083.8	1233.9	1889.6	3336.4	6279.1	9711.9	9852.6	9622.6	8605.1	6397.4
75°	445.8	465.3	533.3	770.4	1481.1	3417.4	7608.2	7868.4	8227.9	7273.6	4765.5
77.5°	326.4	334.6	371.9	452.3	664.6	1290.7	4892.6	5044.0	5933.8	5292.9	2923.2
80°	252.5	258.4	287.3	332.3	434.0	522.1	2231.4	2361.5	3336.4	2718.6	1217.4
82.5°	201.0	205.2	225.3	244.8	299.8	316.3	740.8	821.8	1231.6	750.9	322.2
85°	186.8	191.6	198.7	178.6	192.2	185.7	320.5	335.2	371.9	295.0	134.8
87.5°	84.5	99.9	196.9	138.9	102.3	81.6	131.3	137.2	154.3	154.9	59.7
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: P318567
CATALOG NUMBER: GLEON-SA3C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8	2243.8
2.5°	2249.1	2247.4	2250.3	2243.2	2252.1	2251.5	2248.5	2249.7	2255.6	2255.0	2255.6
5°	2262.7	2261.5	2265.1	2259.8	2270.4	2274.0	2274.5	2279.9	2286.4	2288.1	2288.1
7.5°	2297.0	2297.0	2298.8	2291.7	2298.8	2298.2	2295.2	2300.6	2307.1	2307.7	2307.1
10°	2356.1	2356.7	2353.8	2335.4	2329.5	2313.6	2298.8	2299.4	2307.7	2314.2	2315.9
12.5°	2430.6	2428.3	2415.3	2381.6	2356.7	2324.2	2308.8	2308.3	2316.5	2321.8	2323.6
15°	2515.8	2509.3	2475.6	2420.6	2376.8	2344.9	2320.1	2314.2	2309.4	2303.5	2304.1
17.5°	2596.2	2581.4	2525.2	2449.0	2402.9	2360.3	2312.4	2274.0	2247.4	2232.0	2227.2
20°	2677.8	2648.8	2567.8	2475.6	2417.0	2339.6	2247.4	2169.3	2120.8	2098.4	2094.2
22.5°	2752.3	2705.6	2607.4	2503.4	2405.8	2269.8	2125.0	2011.4	1944.0	1913.9	1916.2
25°	2825.0	2760.0	2648.8	2522.9	2349.0	2146.8	1954.7	1815.1	1737.1	1703.4	1702.2
27.5°	2888.9	2815.0	2693.7	2506.9	2243.2	1971.8	1753.1	1617.1	1552.0	1523.1	1518.3
30°	2962.2	2884.1	2753.5	2446.0	2088.3	1769.6	1556.2	1460.4	1414.3	1385.3	1380.0
32.5°	3051.5	2978.1	2802.5	2335.4	1890.2	1558.5	1402.5	1335.6	1293.7	1261.1	1255.2
35°	3181.5	3102.3	2815.0	2177.0	1672.7	1391.8	1289.5	1220.9	1164.2	1122.2	1118.1
37.5°	3344.7	3257.8	2786.6	1971.8	1461.6	1283.6	1195.5	1111.0	1037.1	977.9	968.5
40°	3580.0	3448.8	2707.9	1735.3	1306.1	1200.2	1103.9	1007.5	915.9	846.7	833.1
42.5°	3862.7	3672.9	2587.3	1500.0	1192.0	1115.7	1012.8	893.4	805.9	756.8	749.7
45°	4222.1	3905.8	2420.0	1294.3	1079.6	1031.1	914.7	804.7	750.3	714.2	708.3
47.5°	4632.5	4167.1	2244.4	1126.9	984.4	951.9	836.0	765.1	721.9	693.5	688.2
50°	5136.8	4462.2	2058.2	989.8	888.7	856.7	798.8	743.2	708.9	687.0	681.7
52.5°	5705.6	4795.1	1923.9	881.6	809.4	786.4	779.3	731.4	703.6	687.0	681.7
55°	6318.1	5133.8	1779.1	790.5	740.8	747.3	766.3	732.6	713.6	693.5	685.9
57.5°	6931.3	5483.9	1617.7	713.6	686.4	718.4	757.4	734.9	719.0	699.5	692.4
60°	7416.1	5705.6	1367.6	649.2	643.3	686.4	736.1	717.2	696.5	697.1	695.9
62.5°	7642.5	5693.8	1091.5	591.8	600.1	643.3	701.8	689.4	672.3	695.3	697.1
65°	7515.4	5410.0	849.6	539.8	554.0	598.3	666.3	675.8	681.7	726.1	732.0
67.5°	6982.1	4857.7	658.1	494.3	512.0	567.6	669.9	736.1	743.8	790.5	789.9
69°	*6430.5*	*4339.8*	*571.7*	*470.6*	*491.3*	*575.3*	*716.0*	*774.5*	*745.6*	*795.2*	*788.1*
70°	5968.1	3930.1	525.6	454.7	481.9	588.9	746.8	773.9	736.7	779.3	767.4
72.5°	4596.4	2827.4	445.8	425.1	449.9	563.5	755.6	756.8	716.0	724.3	704.2
75°	3152.6	1786.8	389.0	384.9	401.5	507.9	727.2	723.1	662.2	650.4	633.8
77.5°	1738.3	907.6	330.5	346.5	357.7	449.9	661.0	655.1	604.9	580.0	574.1
80°	670.5	397.3	279.1	308.0	315.1	389.6	579.4	574.1	532.1	500.2	491.3
82.5°	253.1	208.1	230.6	266.7	264.3	321.6	490.7	487.8	447.0	400.3	386.1
85°	117.1	124.8	182.7	219.9	202.8	238.3	392.6	397.9	348.2	292.7	292.7
87.5°	49.7	69.8	129.5	166.1	136.6	160.8	287.9	274.9	252.5	175.0	164.4
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

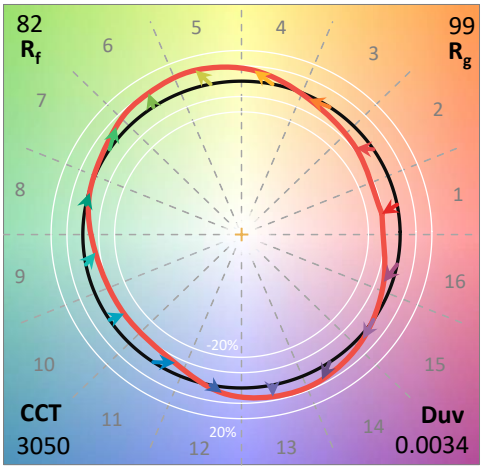
Test Information

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

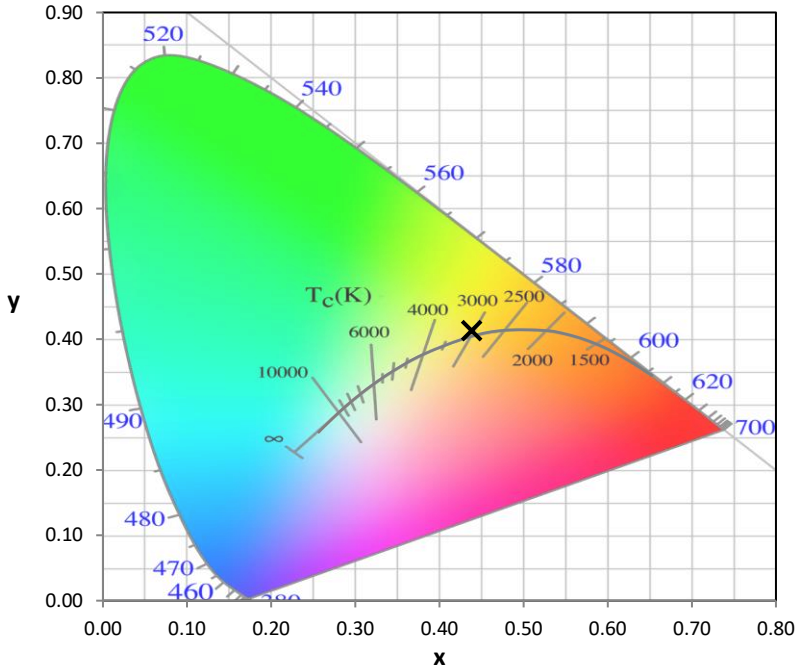
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

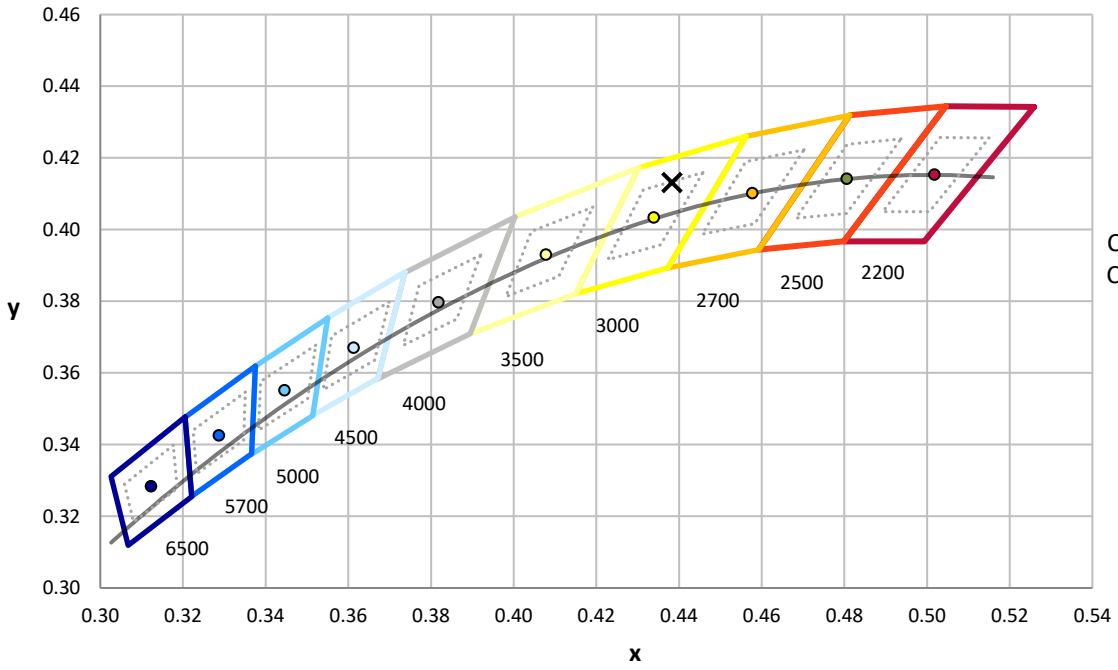
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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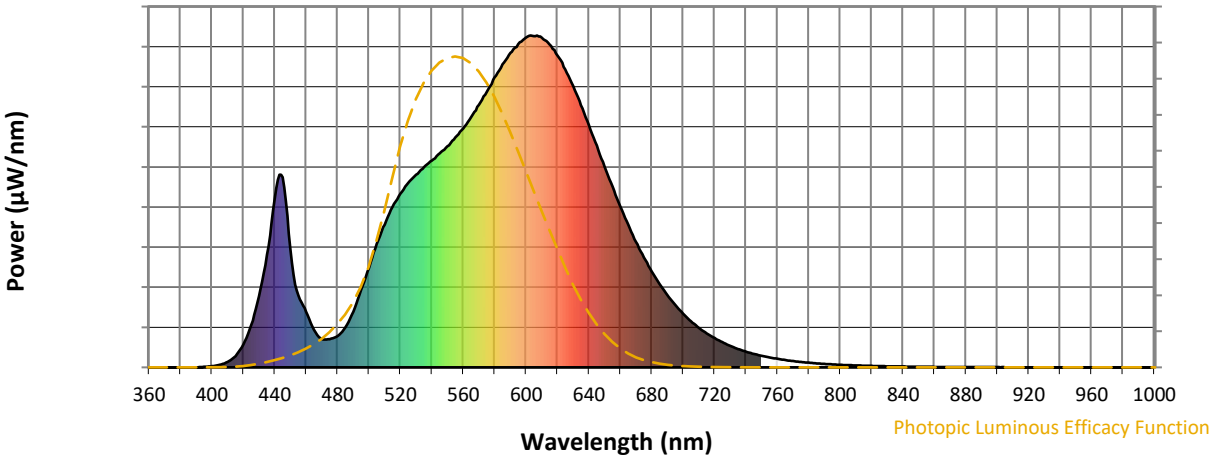
Photopic Flux vs. Wavelength



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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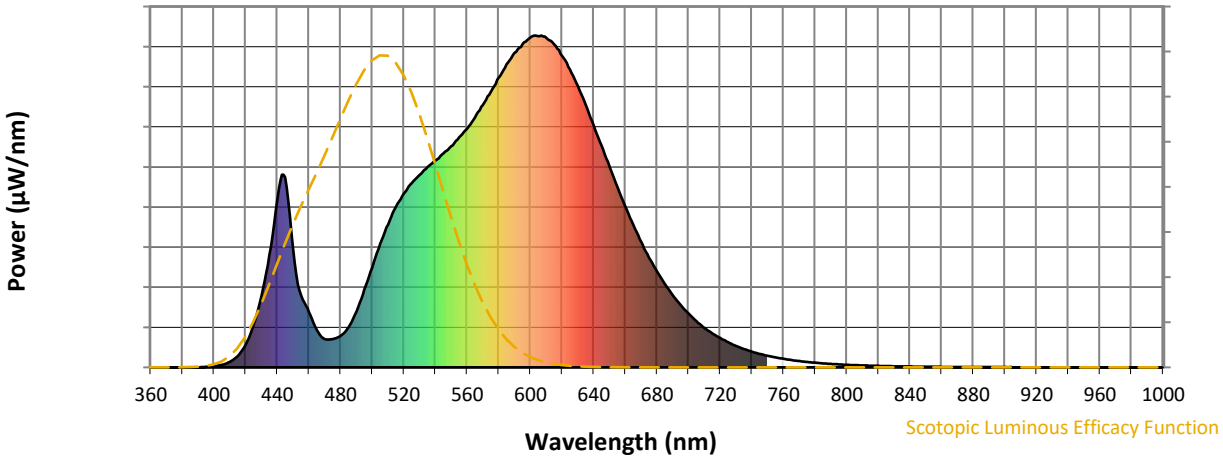
Scotopic Flux vs. Wavelength



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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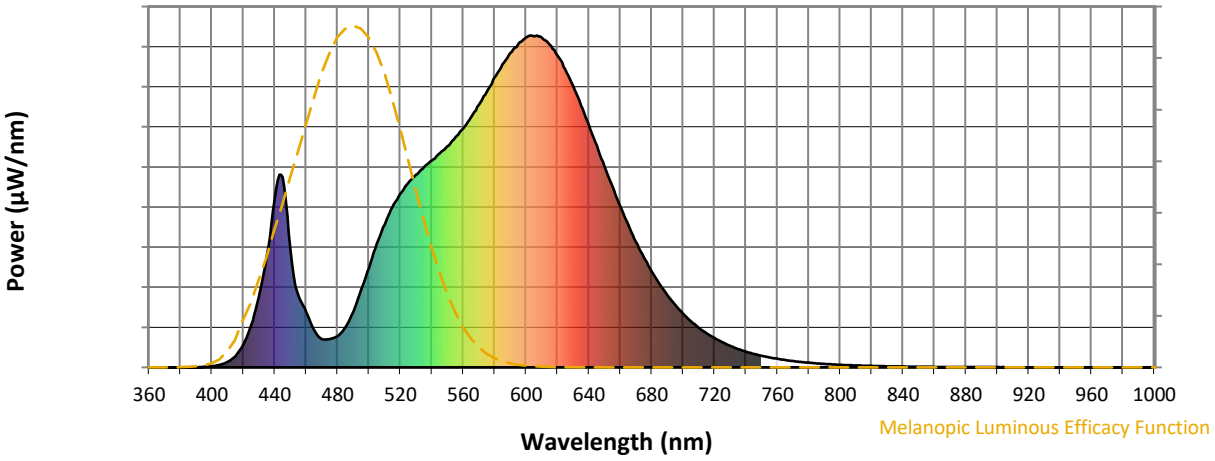
Melanopic Flux vs. Wavelength



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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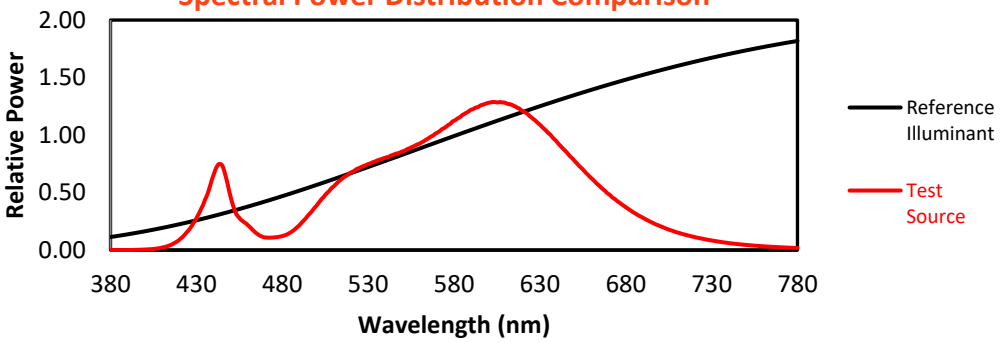
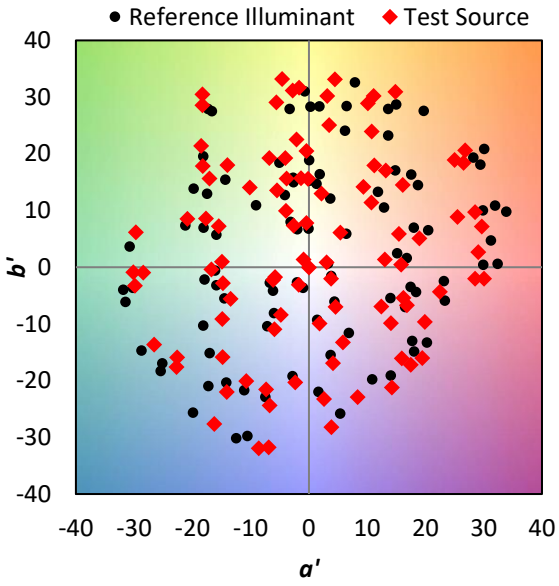
Summary

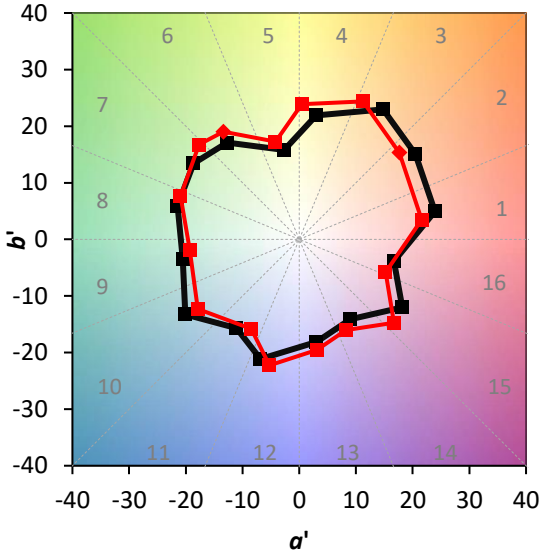
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

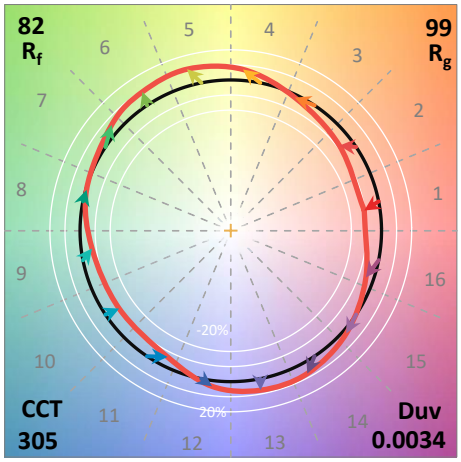
Spectral Power Distribution Comparison

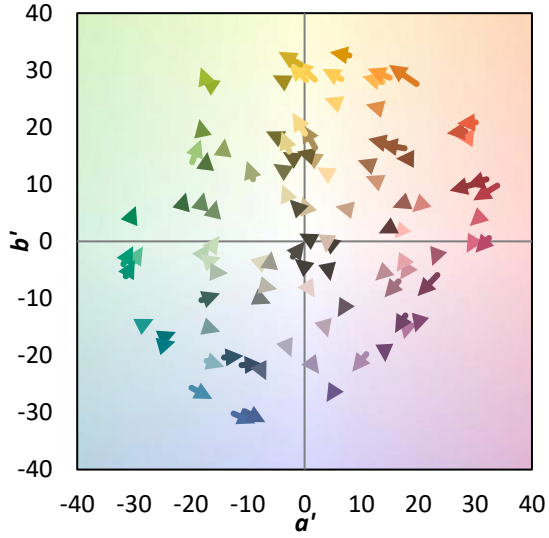


Color Vector Graphics









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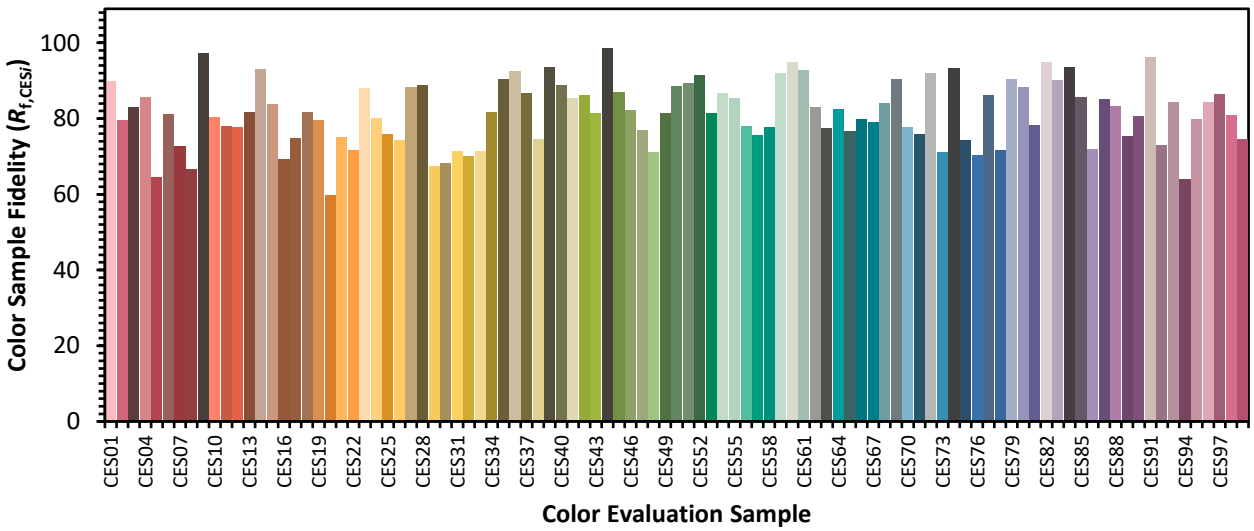
Individual Sample Fidelity Index ($R_{f,i}$)

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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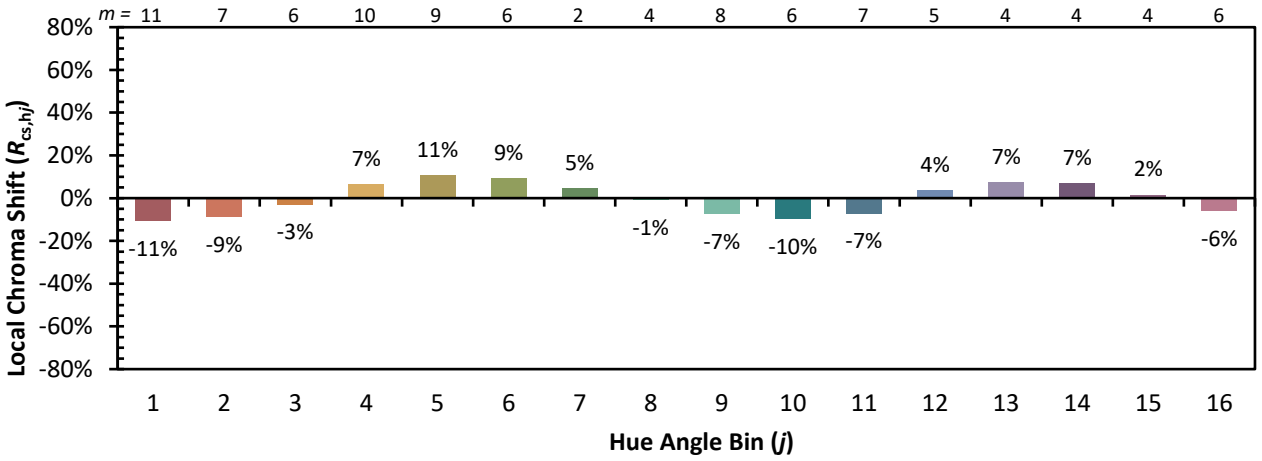
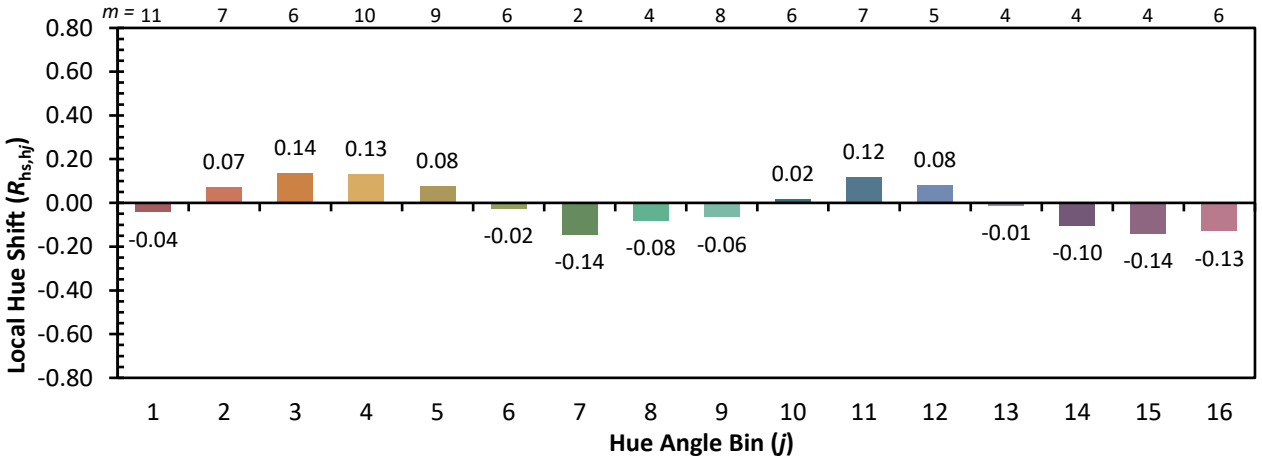
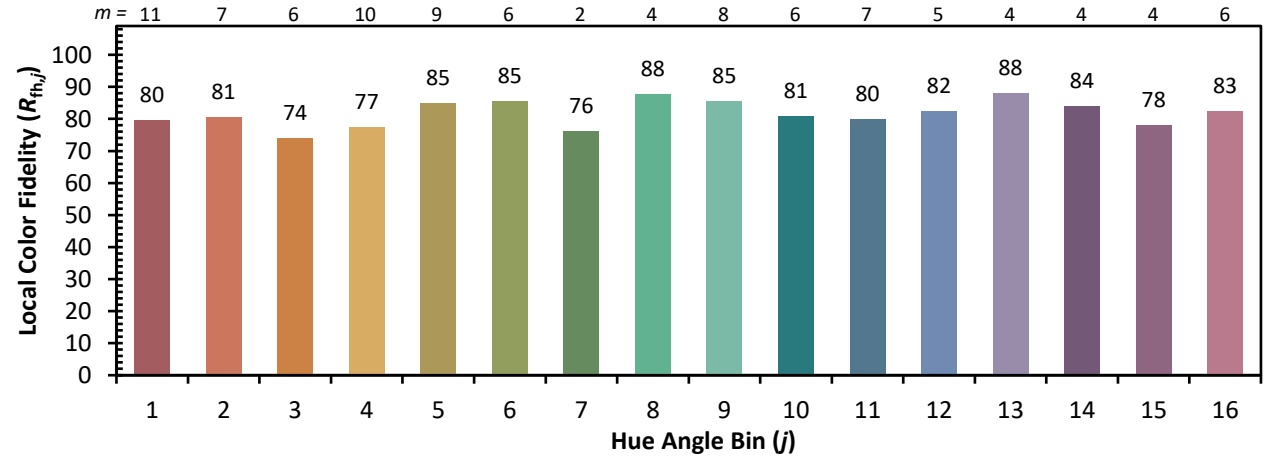
Color Rendition by Hue-Angle Bin







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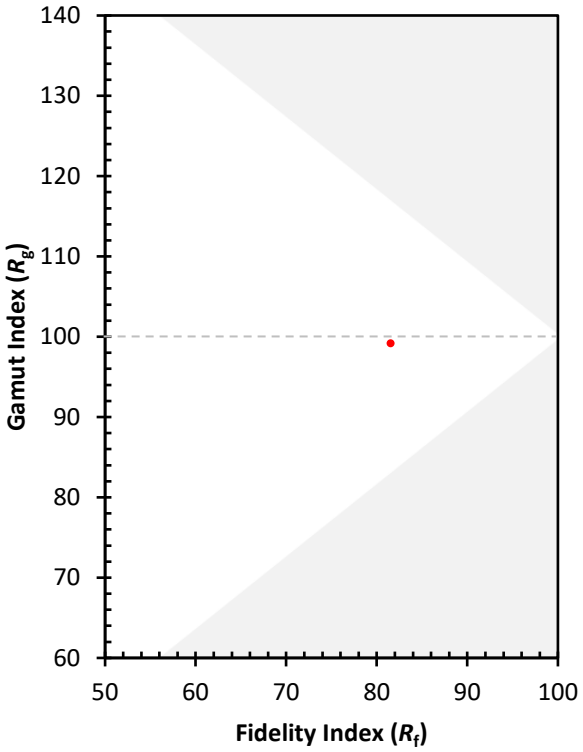
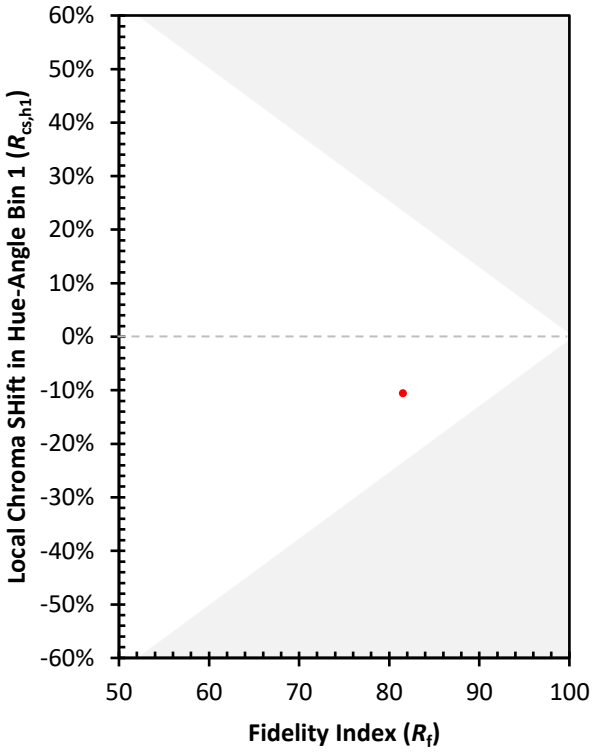
Measure Comparisons





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