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: P320157

Luminaire Tested: **GLEON-SA3B-830-U-SL4**

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:	P320157
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3B-830-U-SL4
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13173 lumens
Efficiency:	N/A
Efficacy:	106.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	124
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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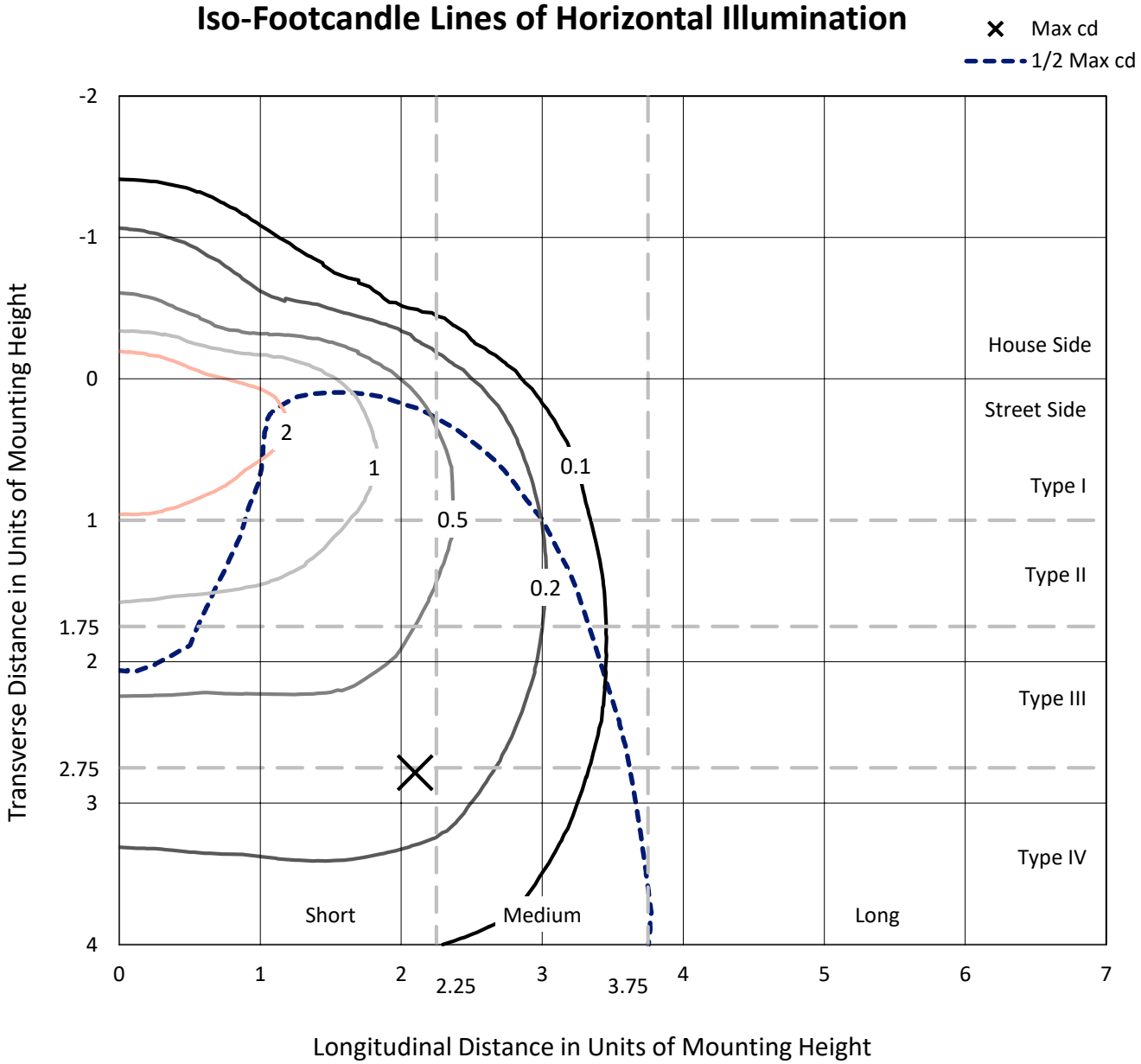
Scaled Data Report

REPORT NUMBER: P320157
CATALOG NUMBER: GLEON-SA3B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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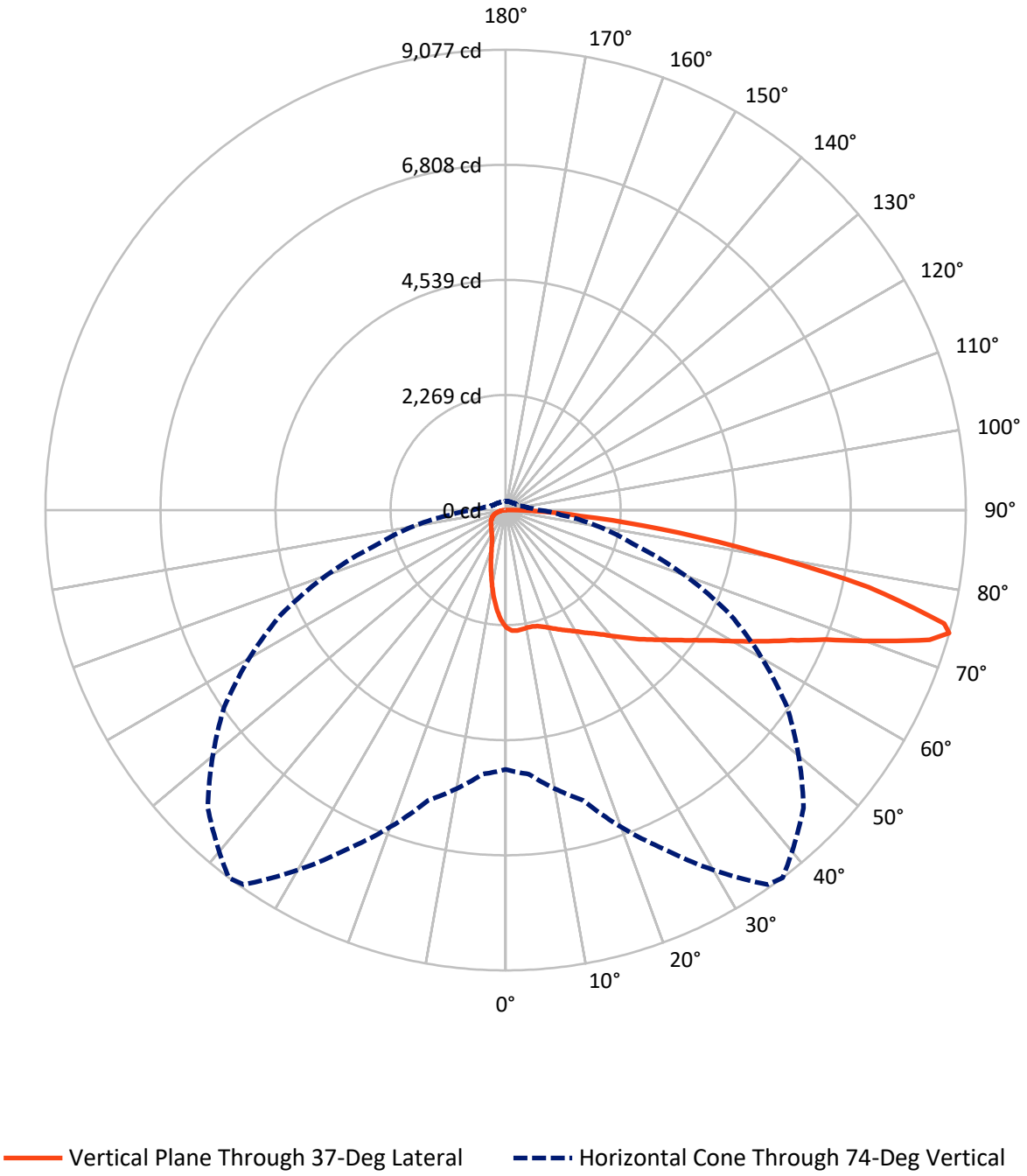
Luminous Intensity Polar Plot



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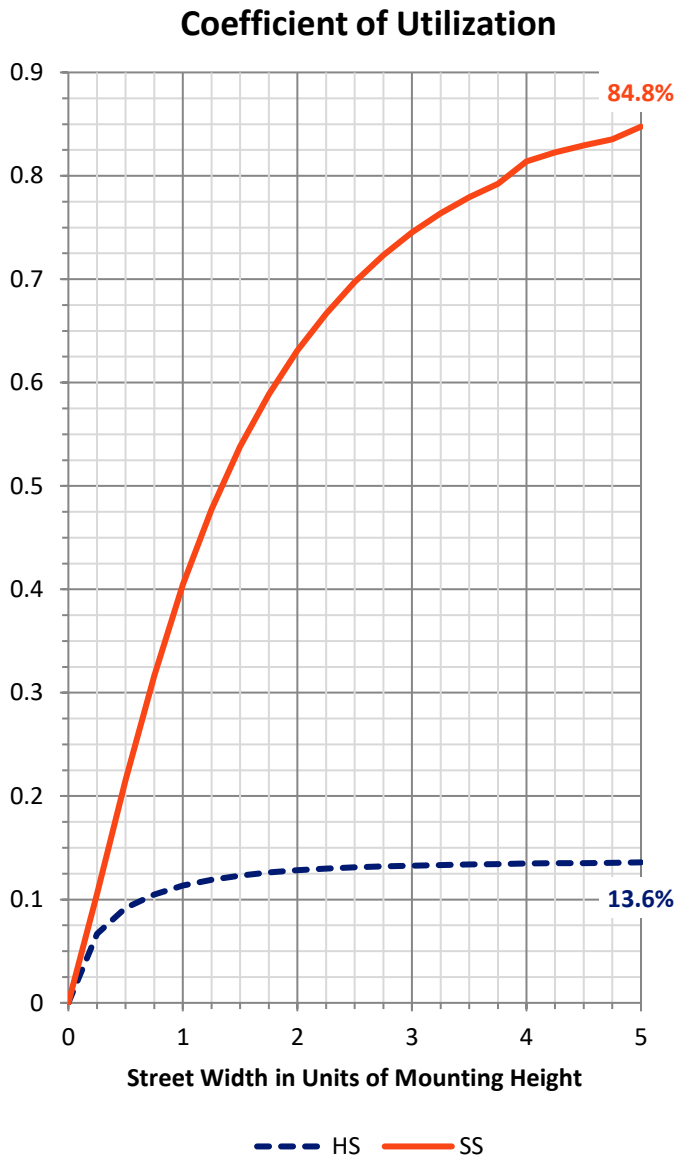
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.5	0.0	1812.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	11360.5	0.0	11360.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	13173.0	0.0	13173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.6
10°-20°	523.9	4.0
20°-30°	807.2	6.1
30°-40°	1173.9	8.9
40°-50°	1727.7	13.1
50°-60°	2426.3	18.4
60°-70°	3070.9	23.3
70°-80°	2704.0	20.5
80°-90°	534.6	4.1
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°	13173.0	100.0
0°-180°	13173.0	100.0



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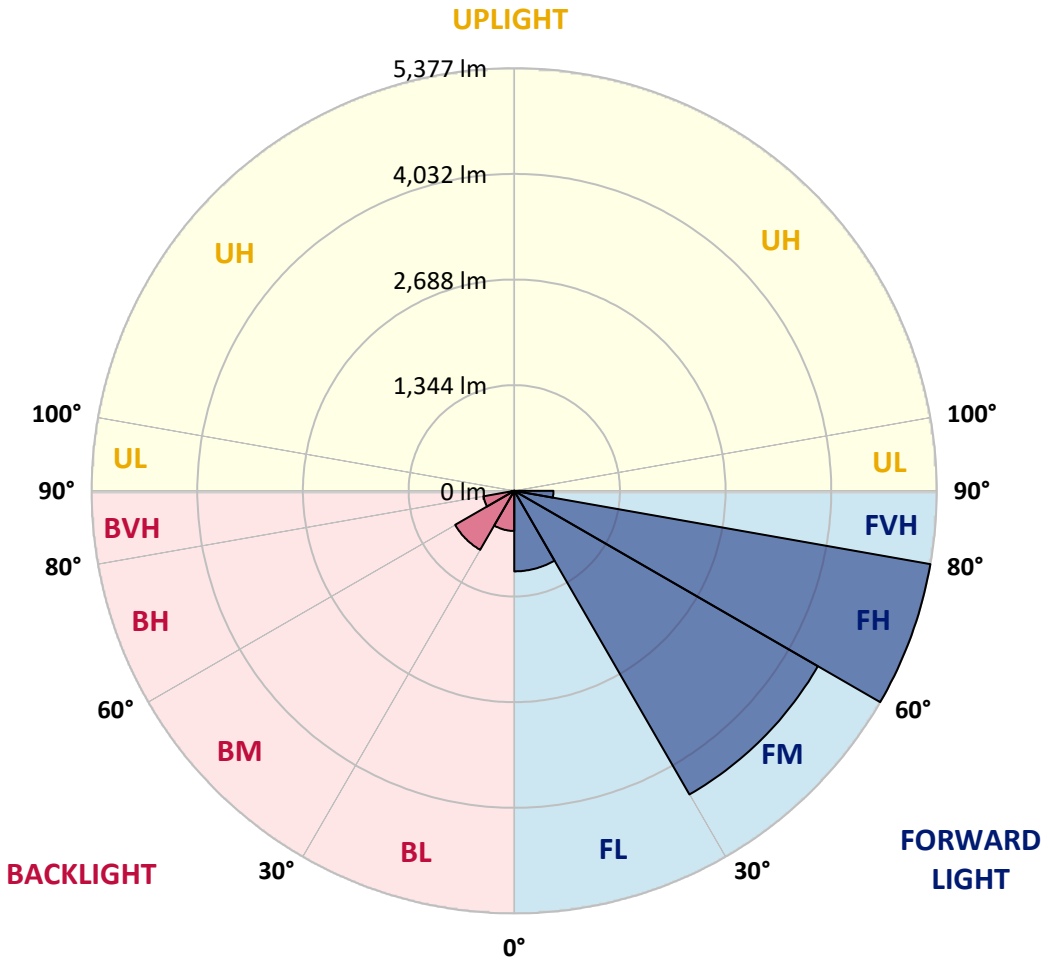
REPORT NUMBER: P320157
CATALOG NUMBER: GLEON-SA3B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1025.0	7.8			
FM	(30°-60°)	4460.5	33.9			
FH	(60°-80°)	5376.5	40.8			G3/7500
FVH	(80°-90°)	498.4	3.8			G3/500
BL	(0°-30°)	510.5	3.9	B2/1000		
BM	(30°-60°)	867.4	6.6	B1/1000		
BH	(60°-80°)	398.4	3.0	B1/500		G1/500
BVH	(80°-90°)	36.2	0.3			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 IV Short



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Scaled Data Report

REPORT NUMBER: P320157
CATALOG NUMBER: GLEON-SA3B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0
2.5°	2400.4	2400.8	2400.4	2396.7	2387.9	2380.4	2374.4	2365.6	2346.1	2331.2	2309.0
5°	2423.1	2420.3	2418.5	2411.5	2397.6	2389.2	2377.6	2360.9	2328.9	2299.2	2263.0
7.5°	2412.4	2409.2	2405.0	2396.7	2380.9	2373.9	2357.7	2335.9	2297.4	2258.4	2206.4
10°	2379.5	2378.6	2376.7	2374.9	2361.4	2355.8	2341.0	2317.8	2279.7	2232.4	2171.6
12.5°	2342.8	2345.2	2352.6	2362.3	2356.3	2353.5	2344.2	2328.5	2289.5	2238.4	2165.1
15°	2319.6	2326.1	2346.1	2371.6	2376.7	2375.8	2373.5	2363.3	2322.0	2265.3	2180.0
17.5°	2311.8	2322.4	2360.5	2402.7	2417.5	2420.8	2421.7	2404.1	2358.2	2298.3	2195.3
20°	2326.1	2339.6	2395.3	2453.3	2476.9	2478.8	2474.6	2444.0	2392.5	2326.6	2203.6
22.5°	2369.8	2381.8	2451.4	2516.8	2543.8	2546.5	2534.0	2487.6	2428.7	2360.0	2215.2
25°	2453.7	2468.6	2538.2	2603.6	2617.5	2618.0	2599.9	2542.4	2476.0	2406.9	2240.3
27.5°	2563.3	2578.1	2640.7	2704.8	2697.4	2693.2	2668.6	2611.0	2537.7	2471.4	2284.8
30°	2685.3	2701.5	2760.9	2806.4	2788.8	2780.4	2760.5	2686.2	2623.6	2559.5	2353.0
32.5°	2811.5	2826.4	2878.3	2909.4	2887.1	2883.4	2853.3	2785.5	2735.4	2694.1	2463.5
35°	2941.0	2951.6	3002.7	3020.3	2990.6	2989.7	2981.3	2919.2	2887.6	2907.1	2624.0
37.5°	3073.2	3076.0	3119.6	3120.5	3111.7	3115.4	3124.3	3085.3	3094.1	3154.9	2832.8
40°	3191.1	3198.5	3230.0	3239.8	3255.1	3268.1	3312.2	3286.7	3354.9	3462.5	3092.7
42.5°	3278.3	3292.7	3343.3	3368.3	3418.0	3438.4	3500.6	3524.2	3661.6	3823.1	3401.7
45°	3352.1	3374.4	3455.6	3507.1	3591.1	3626.8	3715.9	3795.2	4008.2	4214.2	3727.0
47.5°	3431.9	3460.2	3561.8	3660.2	3774.3	3814.7	3976.7	4095.4	4378.0	4607.7	4033.7
50°	3549.3	3571.1	3670.4	3824.9	3967.4	4019.3	4243.5	4413.8	4753.9	4982.7	4299.6
52.5°	3713.1	3704.7	3788.7	4005.4	4196.6	4260.6	4528.4	4752.5	5134.9	5321.9	4524.2
55°	3877.8	3863.9	3922.8	4194.3	4463.9	4531.2	4842.1	5092.6	5497.3	5627.2	4696.4
57.5°	4061.1	4034.7	4084.3	4407.3	4768.3	4848.6	5193.3	5454.1	5853.6	5874.0	4805.9
60°	4250.0	4214.2	4269.9	4671.3	5154.8	5249.5	5604.4	5806.8	6189.6	6071.7	4841.1
62.5°	4415.2	4390.1	4475.9	4965.9	5590.5	5694.5	6008.1	6181.7	6520.9	6153.8	4714.0
65°	4559.5	4563.6	4712.1	5297.3	6076.4	6187.3	6471.2	6643.8	6781.7	6105.1	4416.5
67.5°	4731.6	4755.3	5008.6	5733.4	6687.9	6809.5	7145.0	7147.8	6927.4	5819.3	3831.0
70°	4982.7	5031.4	5416.5	6338.5	7557.5	7724.6	7983.5	7443.8	6722.7	5044.4	3014.3
72.5°	5205.4	5296.3	5850.4	7030.8	8617.3	8744.0	8473.9	7273.1	5867.5	3780.4	1877.9
74°	5114.9	5227.7	5929.3	7371.9	9016.4	9077.2	8308.3	6774.7	4892.2	2618.0	1091.4
75°	4920.0	5042.5	5814.2	7368.6	8965.8	8931.9	7908.3	6205.3	4029.1	1785.6	726.2
77.5°	3970.6	4100.1	4899.1	6315.3	7351.5	7319.5	6075.0	4162.7	1764.7	585.6	368.9
80°	2308.5	2407.3	3041.2	4010.5	4957.1	5015.1	3995.2	2059.8	694.2	329.0	250.1
82.5°	1025.5	1093.7	1469.1	2047.3	2991.5	3066.2	2092.3	1079.3	428.8	200.0	150.3
85°	672.8	723.4	891.8	974.9	1424.5	1475.6	1024.1	840.3	283.1	110.0	110.4
87.5°	484.0	532.7	662.6	578.6	653.8	619.0	557.3	777.7	113.7	62.6	37.1
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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Scaled Data Report

REPORT NUMBER: P320157
CATALOG NUMBER: GLEON-SA3B-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0	2321.0
2.5°	2299.2	2291.8	2275.1	2243.5	2225.9	2211.1	2186.5	2172.1	2165.6	2165.1	2167.9
5°	2242.1	2225.0	2181.8	2128.9	2086.7	2048.2	2000.4	1971.6	1951.2	1939.1	1942.4
7.5°	2175.8	2148.9	2081.1	1996.7	1928.9	1854.2	1780.4	1736.4	1702.0	1676.5	1681.1
10°	2130.3	2093.2	1994.4	1872.8	1760.0	1651.4	1549.8	1489.0	1440.8	1403.7	1406.4
12.5°	2115.0	2064.9	1928.0	1765.6	1607.4	1458.9	1326.2	1232.9	1183.3	1141.0	1144.3
15°	2117.3	2050.0	1872.3	1669.1	1470.0	1283.0	1122.0	1013.0	945.7	916.4	916.9
17.5°	2119.2	2032.9	1813.9	1565.6	1334.1	1118.8	943.8	833.4	769.8	742.9	743.4
20°	2113.2	2005.0	1741.5	1446.8	1192.1	967.9	798.6	704.8	656.6	635.7	635.7
22.5°	2105.3	1972.1	1659.8	1327.6	1051.9	837.1	694.6	623.2	595.3	581.4	581.0
25°	2109.0	1947.5	1576.3	1205.1	922.9	732.7	625.5	578.2	559.6	550.8	550.3
27.5°	2128.9	1935.9	1499.3	1083.0	810.2	654.3	579.1	545.7	533.6	528.1	528.1
30°	2165.1	1935.9	1419.0	979.1	716.4	596.3	543.4	520.6	512.3	508.6	508.6
32.5°	2228.2	1946.6	1341.5	876.1	641.7	550.8	513.7	498.4	491.9	490.0	490.0
35°	2336.8	1982.8	1265.8	778.6	581.4	513.7	485.4	476.5	471.9	471.4	472.8
37.5°	2489.5	2056.5	1194.9	706.7	538.7	483.5	461.7	454.7	452.0	454.3	456.1
40°	2681.6	2156.8	1130.4	641.7	506.2	459.4	439.9	435.3	433.9	437.1	439.9
42.5°	2913.6	2292.3	1077.5	594.9	481.2	439.0	421.3	415.8	414.4	418.1	421.8
45°	3164.6	2438.0	1040.3	560.1	461.7	423.7	405.1	399.1	396.3	398.1	402.3
47.5°	3392.9	2575.8	1025.5	535.5	443.1	410.7	390.7	383.3	378.6	377.7	381.0
50°	3585.5	2678.3	1032.4	520.6	428.3	396.3	376.8	368.4	361.5	357.3	359.6
52.5°	3725.6	2742.8	1038.9	514.1	416.7	380.5	361.5	353.6	344.3	337.3	337.3
55°	3827.2	2757.7	1024.6	509.0	407.9	363.3	344.3	336.9	327.6	319.7	318.8
57.5°	3867.1	2715.9	971.2	501.6	401.8	347.1	326.2	320.6	312.7	303.5	303.0
60°	3813.3	2586.9	868.2	485.8	394.0	333.6	308.1	304.4	300.7	291.9	291.4
62.5°	3597.1	2303.9	735.0	453.8	378.2	319.2	291.4	293.3	293.7	287.7	286.8
65°	3205.0	1915.0	605.1	412.1	354.5	302.1	274.2	283.1	288.2	287.2	285.8
67.5°	2635.2	1490.4	512.7	368.0	323.4	278.4	255.7	265.9	270.1	273.3	272.4
70°	1955.8	1051.0	424.1	321.6	285.8	250.6	231.5	236.7	233.9	237.6	239.0
72.5°	1090.4	630.6	345.7	275.2	246.9	218.1	204.6	203.7	197.7	197.7	197.7
74°	*654.3*	*462.6*	*303.9*	*246.4*	*223.2*	*196.7*	*185.1*	*181.0*	*175.4*	*175.9*	*175.4*
75°	526.2	397.7	278.9	227.4	206.5	184.2	172.6	167.0	162.9	162.9	162.4
77.5°	332.2	302.1	224.6	181.0	165.2	151.7	143.8	136.4	136.4	136.0	135.5
80°	251.0	240.4	174.9	136.9	126.7	116.5	111.4	108.1	108.1	109.5	109.0
82.5°	172.2	181.0	123.0	95.6	90.5	83.1	82.1	82.6	81.2	79.3	78.9
85°	125.7	136.0	83.1	60.3	55.2	50.6	54.3	56.1	53.8	49.7	47.8
87.5°	48.3	89.1	44.5	25.1	23.2	20.0	23.2	24.1	26.0	20.4	20.9
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

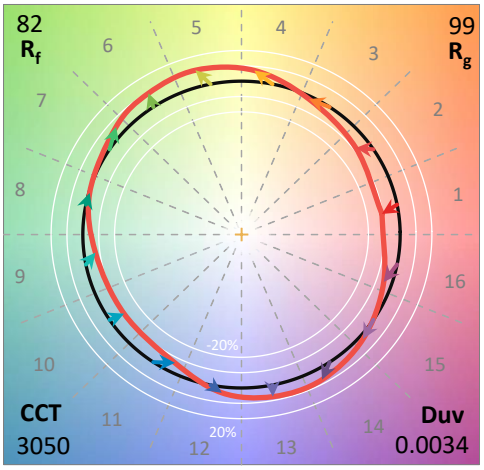
Test Information

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

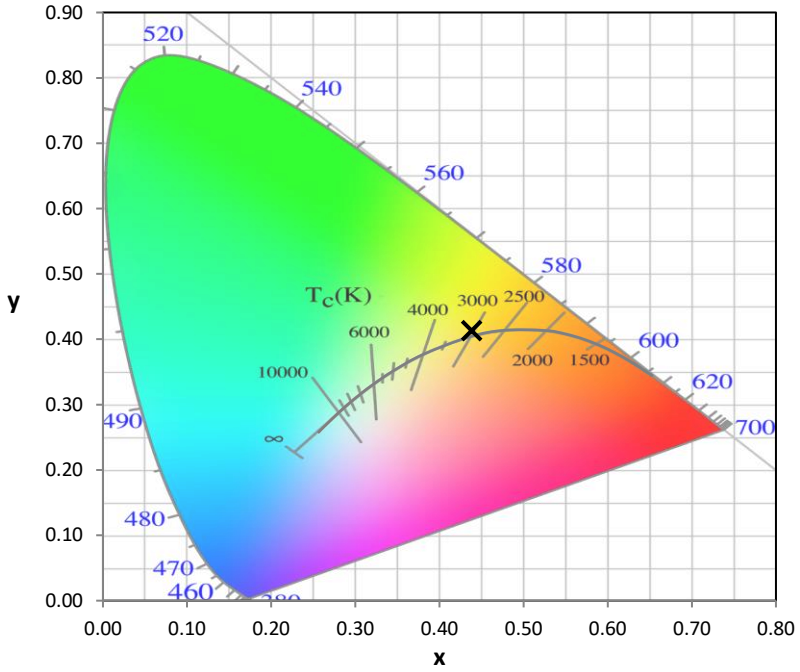
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

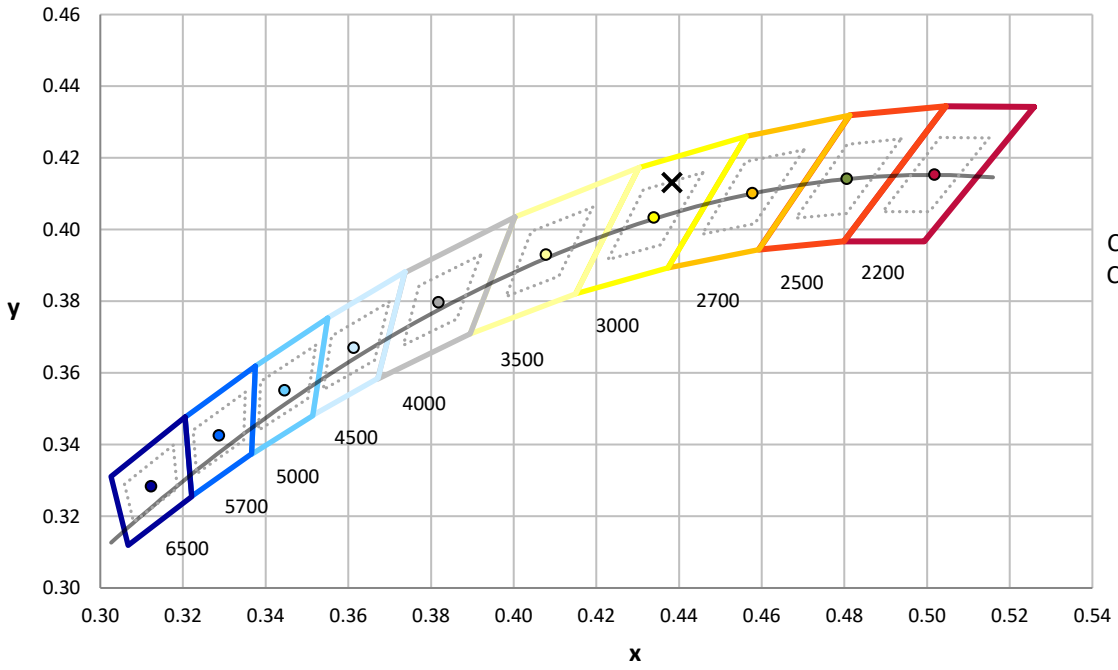
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

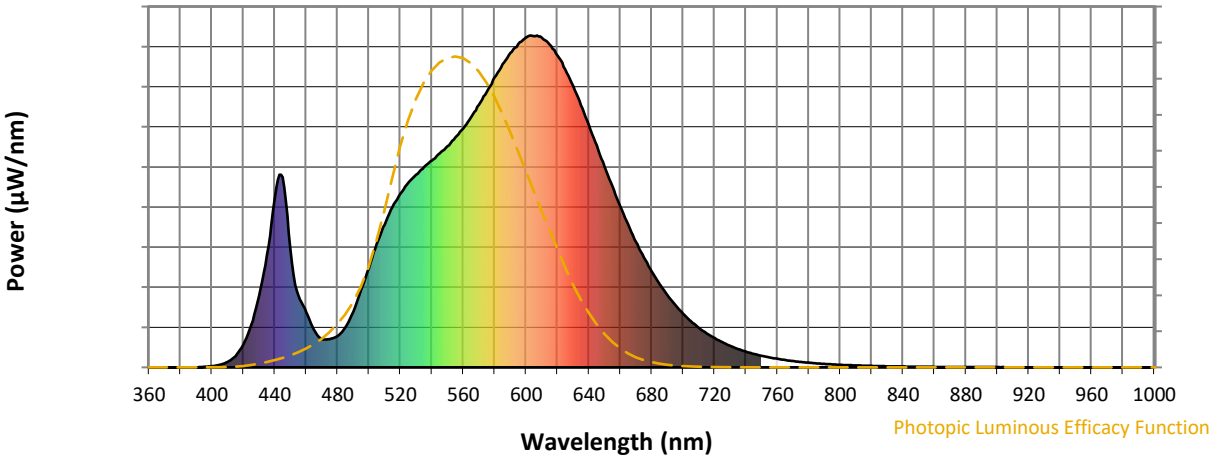


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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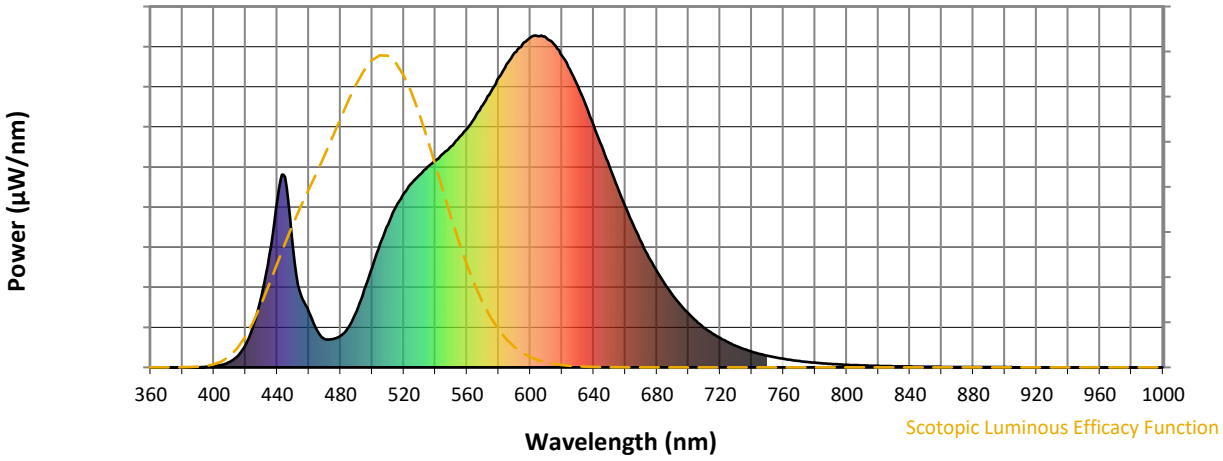
Scotopic Flux vs. Wavelength



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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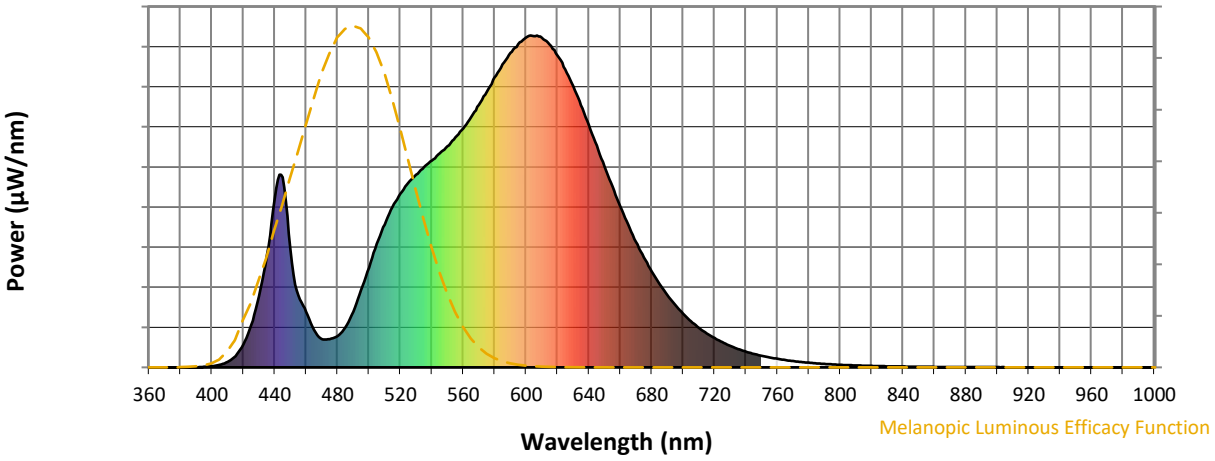
Melanopic Flux vs. Wavelength



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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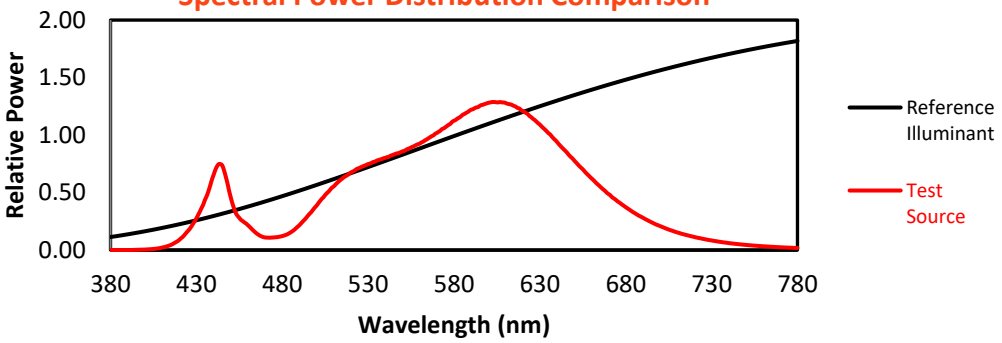
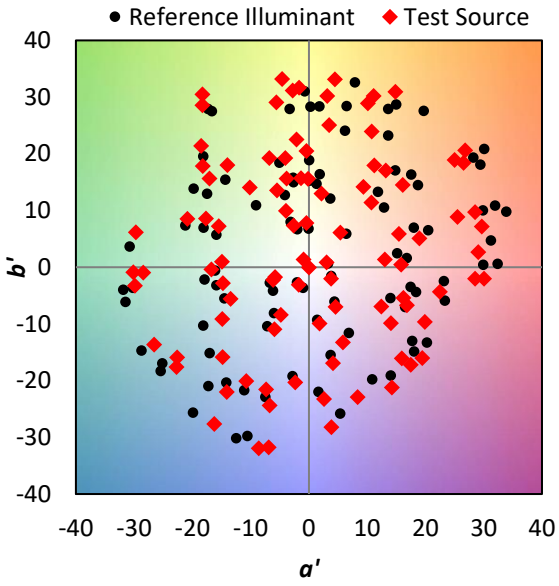
Summary

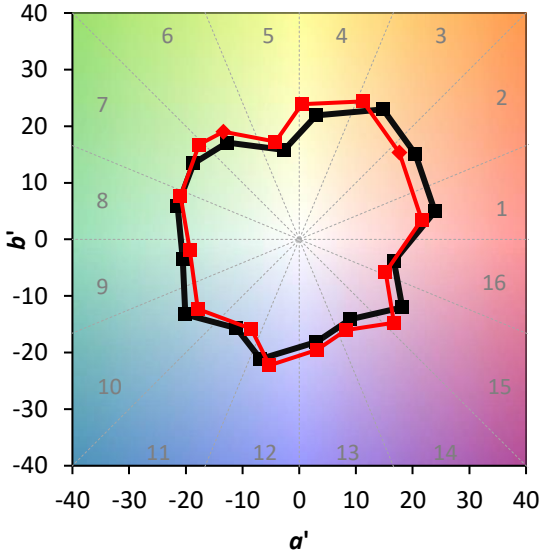
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

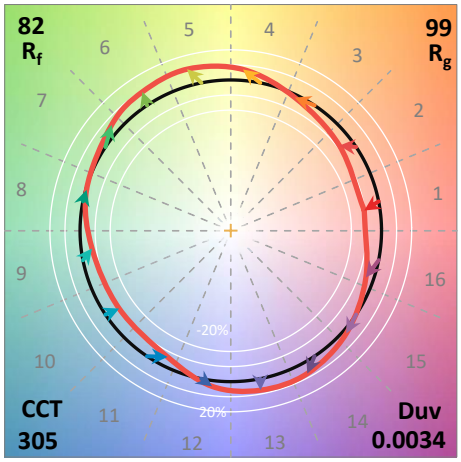
Spectral Power Distribution Comparison

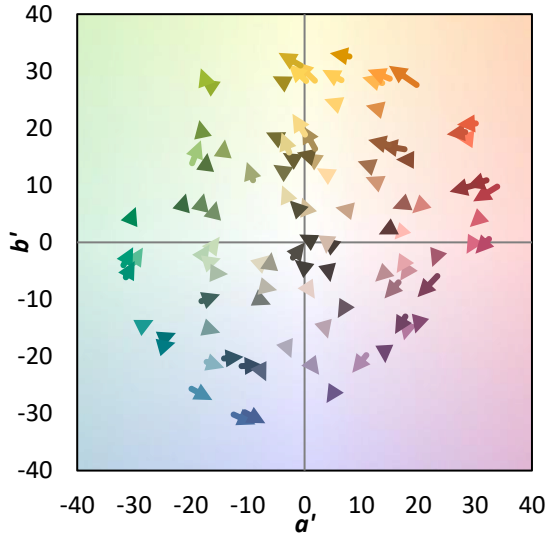


Color Vector Graphics









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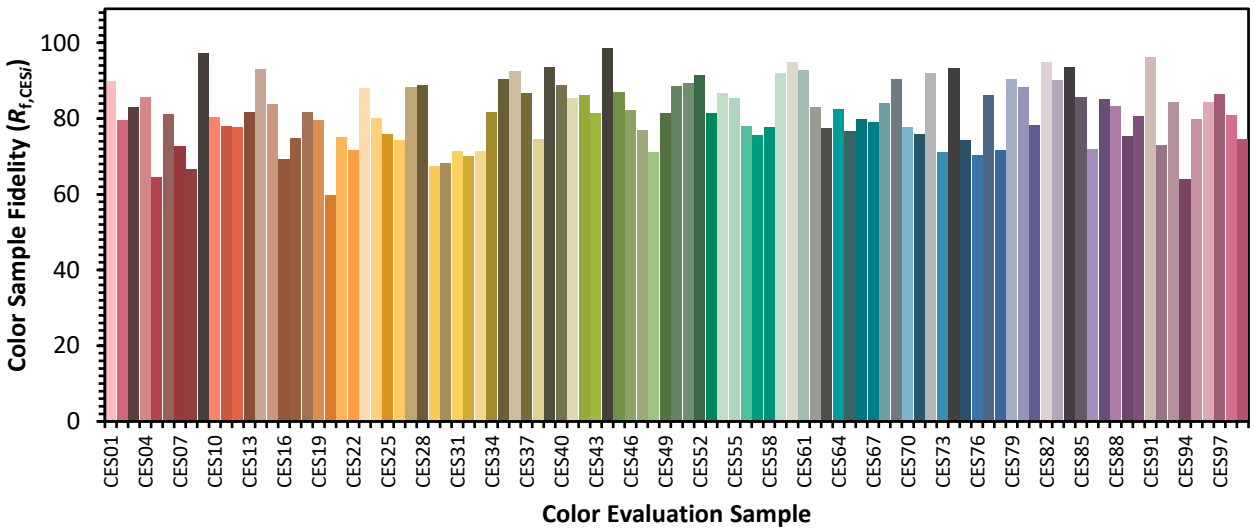
Individual Sample Fidelity Index ($R_{f,i}$)

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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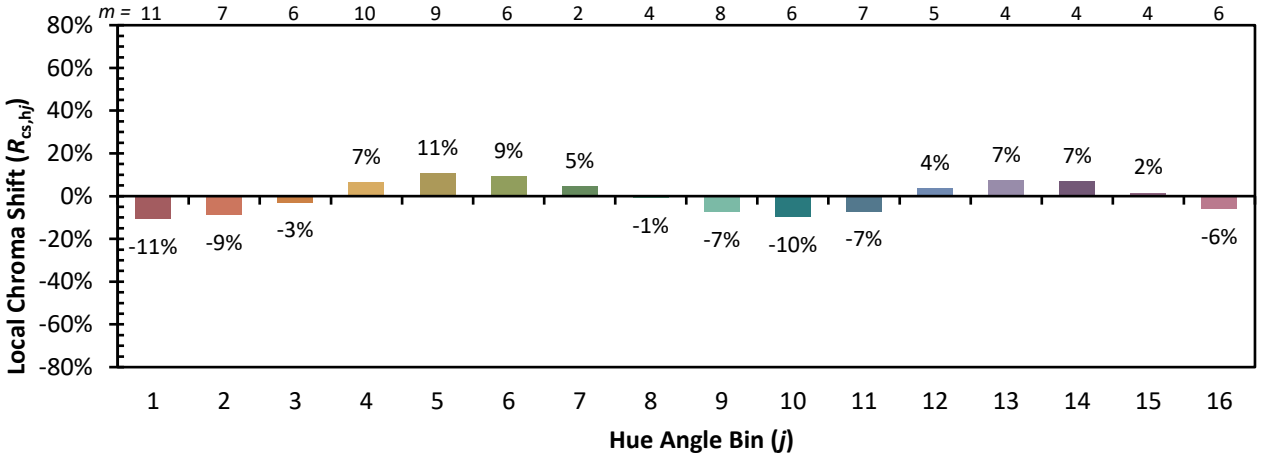
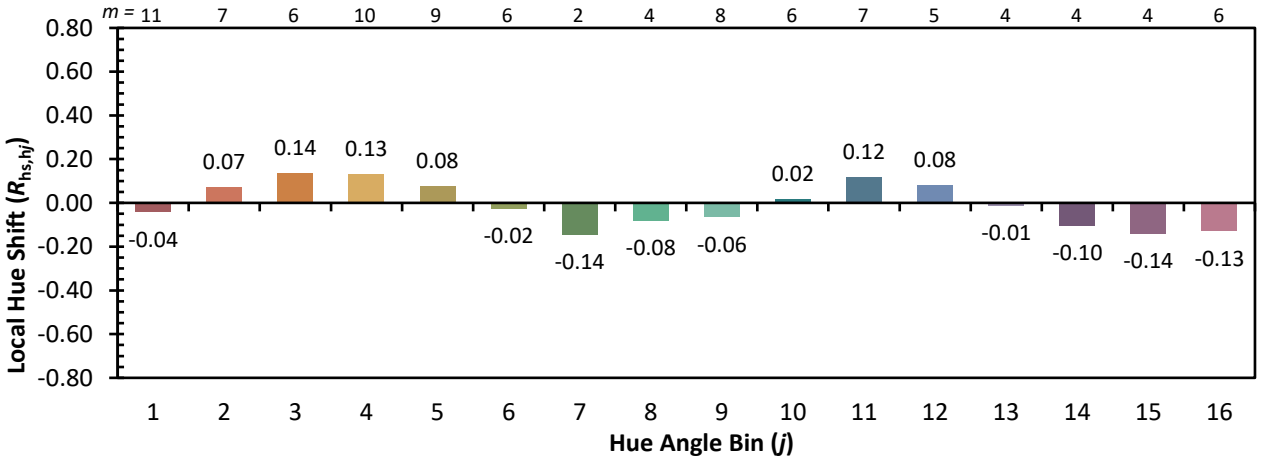
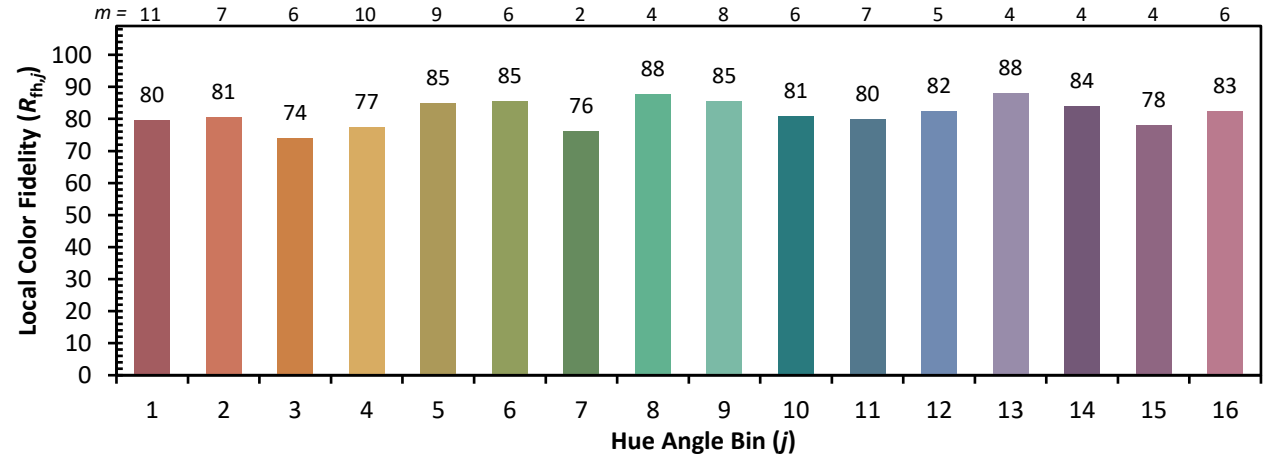
Color Rendition by Hue-Angle Bin







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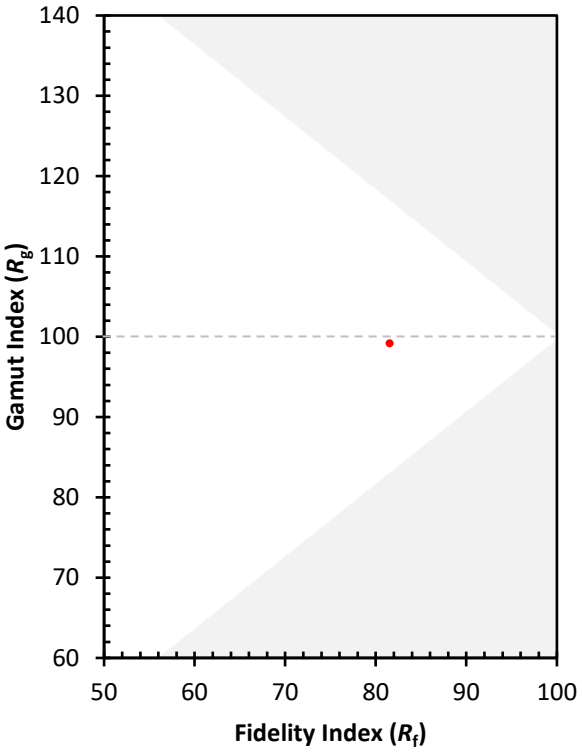
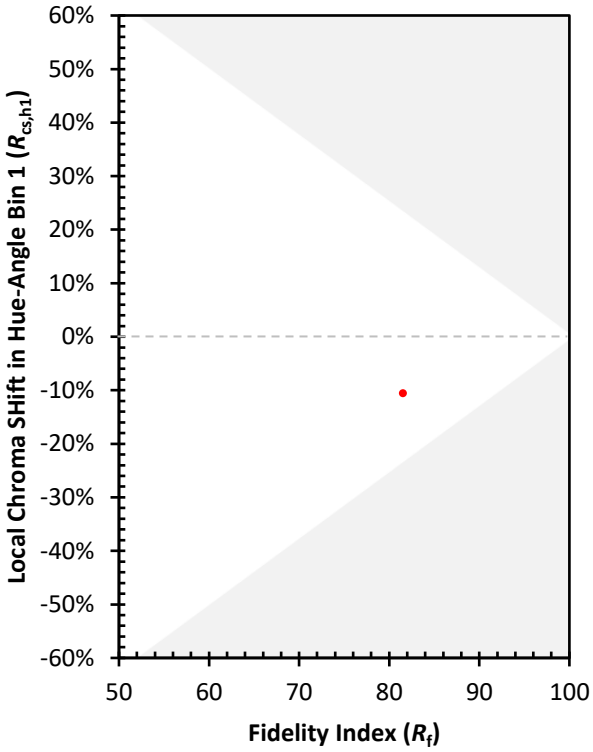
Measure Comparisons





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