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: P321769

Luminaire Tested: **GLEON-SA5C-830-U-T3R-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:	P321769
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5C-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21606 lumens
Efficiency:	N/A
Efficacy:	77.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	279
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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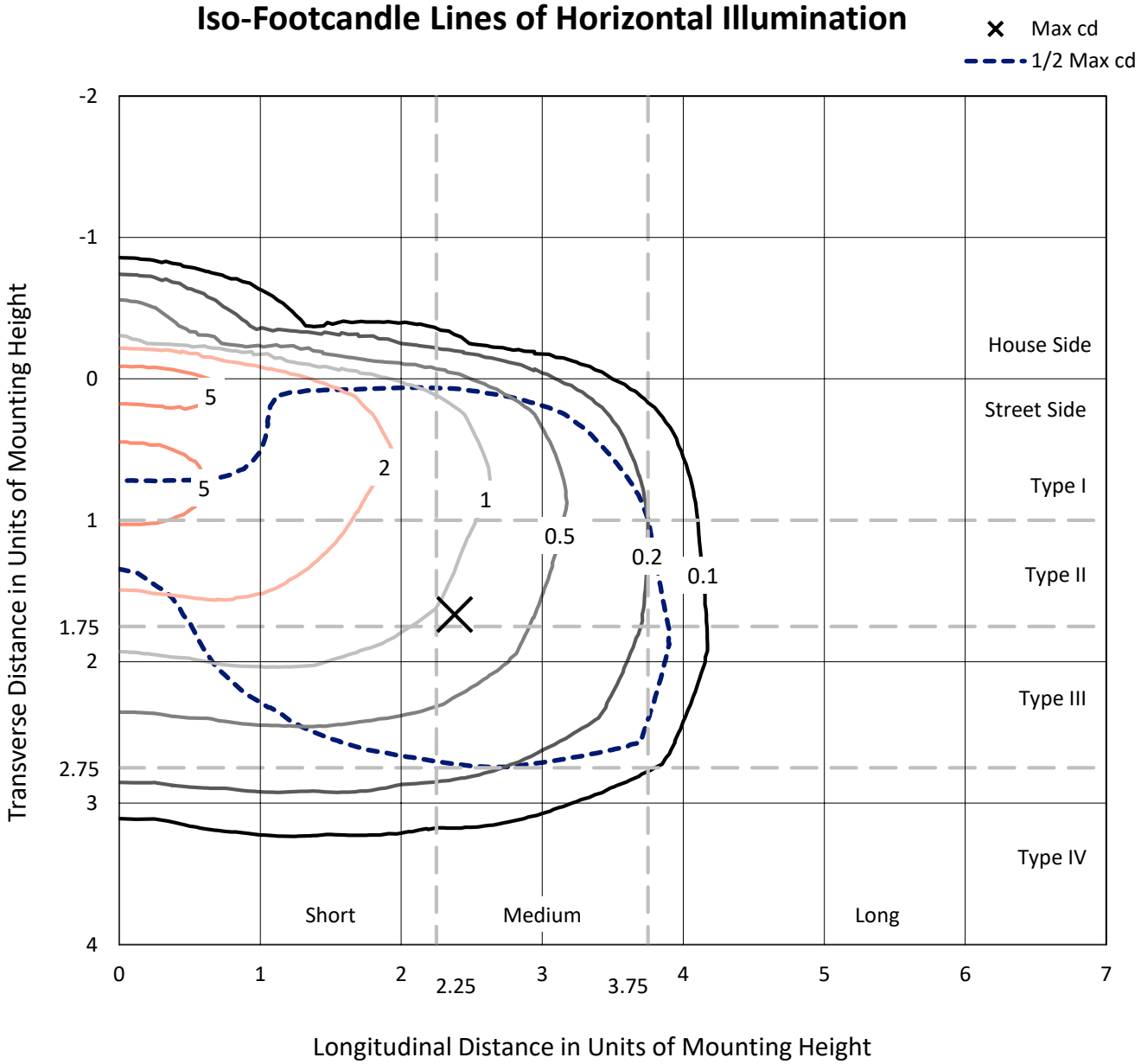
Scaled Data Report

REPORT NUMBER: P321769
CATALOG NUMBER: GLEON-SA5C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Medium - N/A

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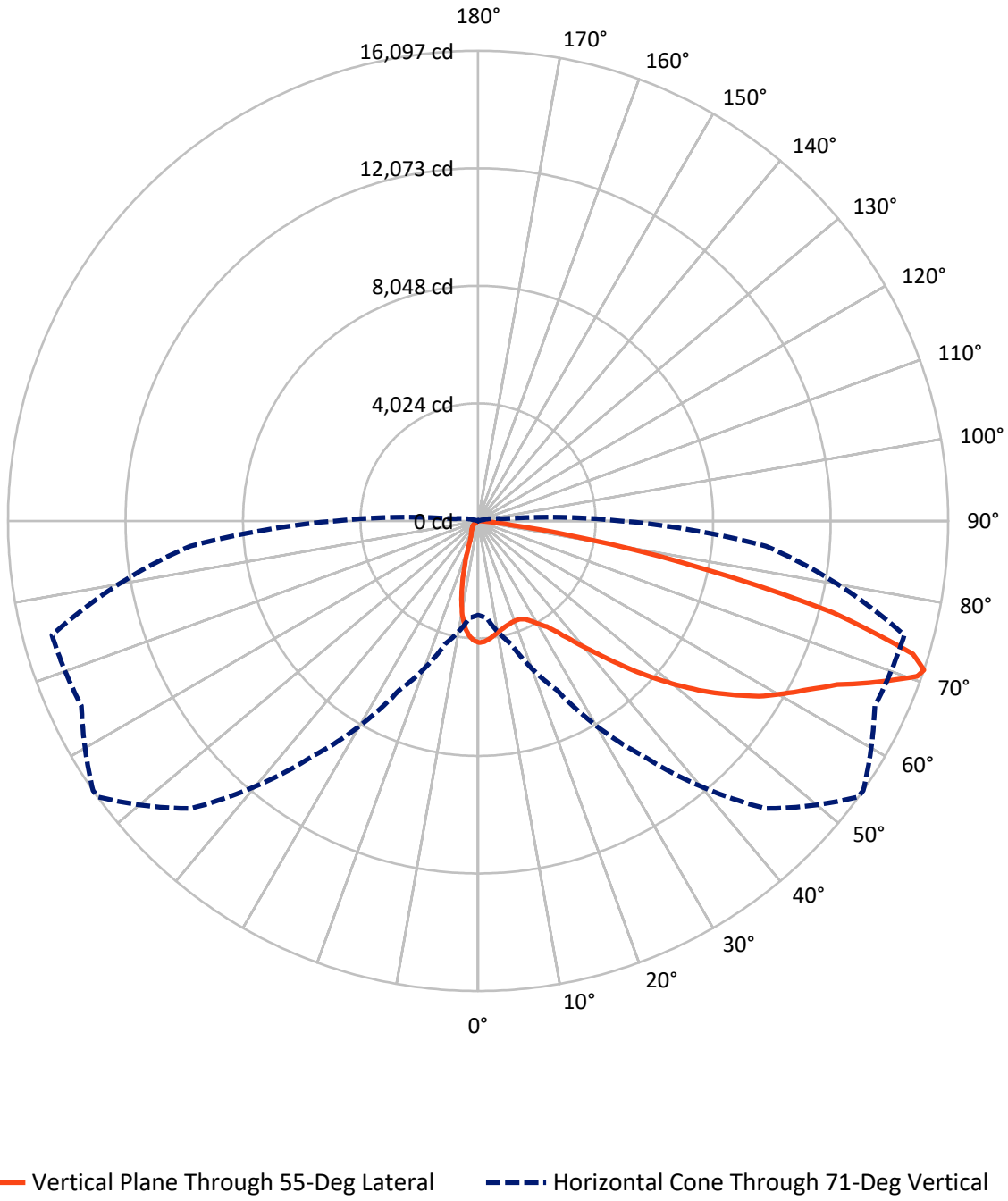
Luminous Intensity Polar Plot



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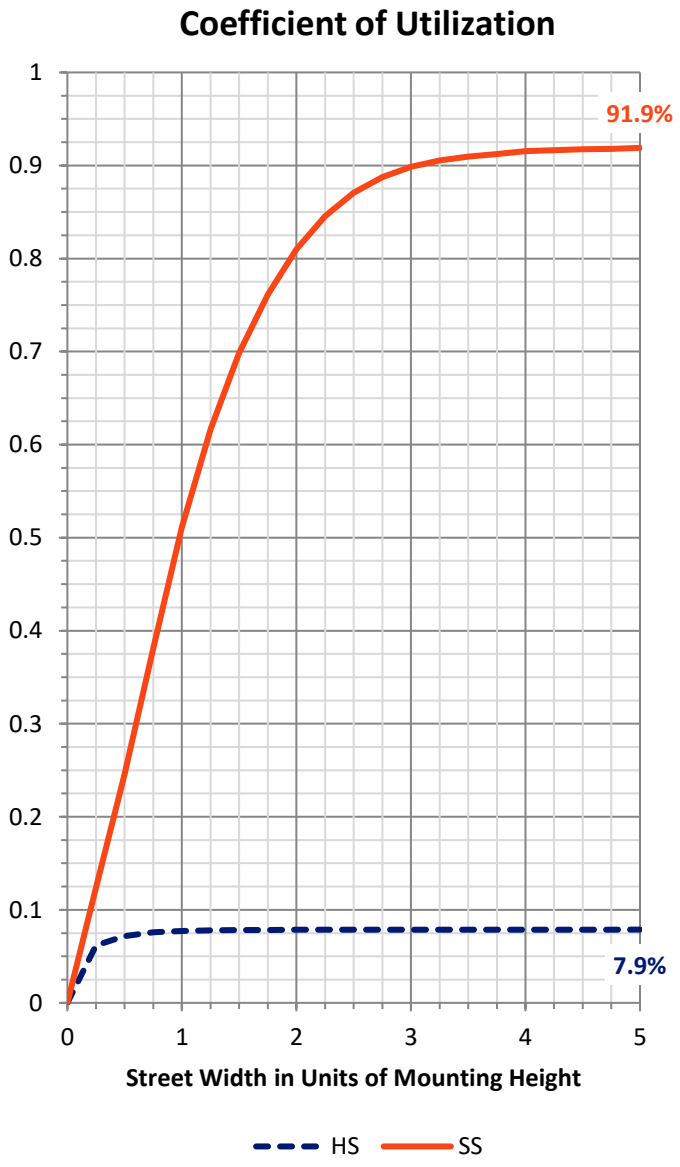
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.6	0.0	1710.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	19895.4	0.0	19895.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	21606.0	0.0	21606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	1.6
10°-20°	802.1	3.7
20°-30°	1288.9	6.0
30°-40°	2190.0	10.1
40°-50°	3399.1	15.7
50°-60°	4570.0	21.2
60°-70°	5590.6	25.9
70°-80°	3268.7	15.1
80°-90°	141.3	0.7
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°	21606.0	100.0
0°-180°	21606.0	100.0



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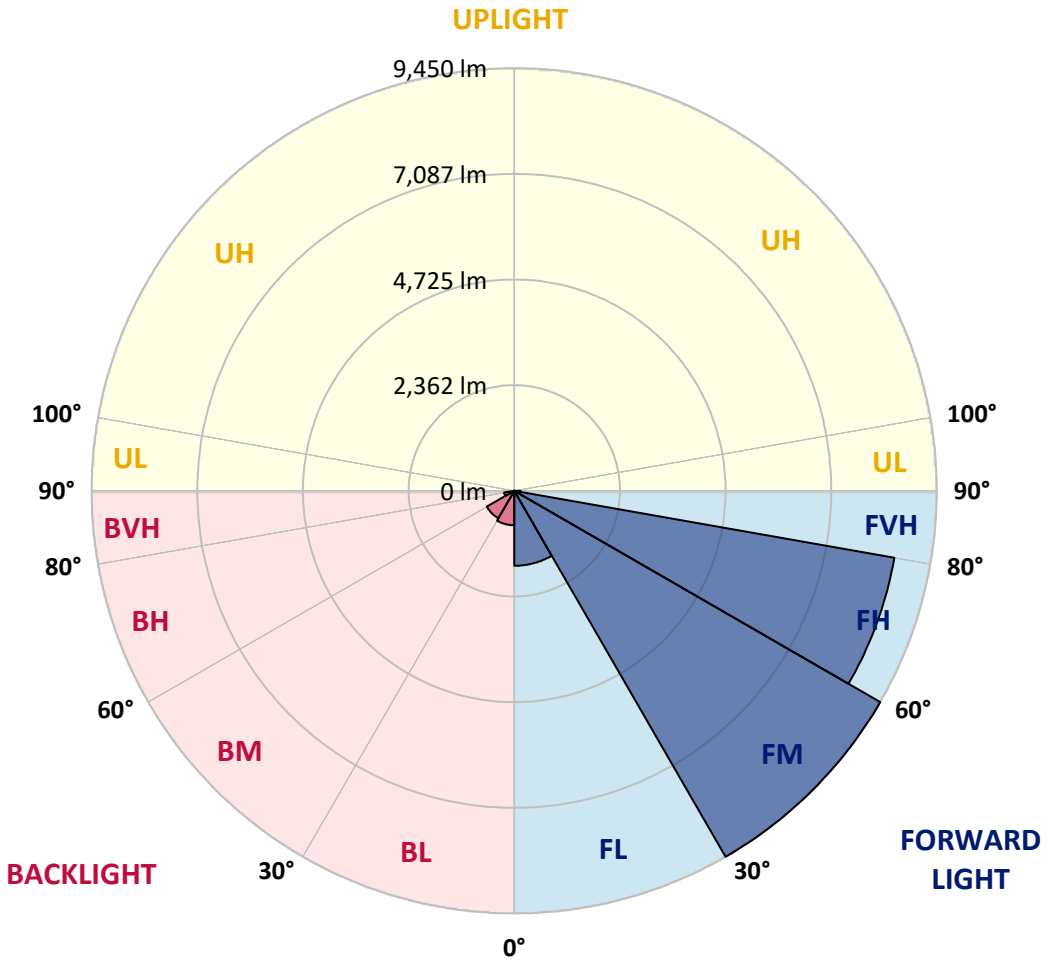
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1676.3	7.8			
FM	(30°-60°)	9449.8	43.7			
FH	(60°-80°)	8630.2	39.9			G4/12000
FVH	(80°-90°)	139.1	0.6			G2/225
BL	(0°-30°)	769.9	3.6	B2/1000		
BM	(30°-60°)	709.2	3.3	B1/1000		
BH	(60°-80°)	229.2	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Medium



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REPORT NUMBER: P321769
CATALOG NUMBER: GLEON-SA5C-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8
2.5°	4044.6	4049.4	4066.9	4074.6	4093.1	4124.1	4139.6	4140.6	4165.8	4175.5	4183.3
5°	3758.4	3787.5	3816.6	3847.6	3903.9	3978.6	4052.3	4059.1	4140.6	4200.7	4232.8
7.5°	3511.9	3538.1	3573.1	3622.5	3702.1	3819.5	3942.7	3957.2	4111.5	4248.3	4320.1
10°	3258.7	3280.1	3330.5	3403.3	3512.9	3670.1	3836.0	3860.2	4085.3	4312.3	4438.4
12.5°	2988.1	3000.7	3061.8	3166.6	3327.6	3527.5	3745.7	3777.8	4068.8	4386.0	4578.1
15°	2782.4	2788.2	2846.4	2955.1	3139.4	3399.4	3675.9	3714.7	4072.7	4474.3	4730.5
17.5°	2730.0	2732.9	2764.0	2838.7	3001.6	3284.9	3620.6	3668.1	4084.3	4560.7	4883.7
20°	2942.5	2922.1	2890.1	2878.4	2948.3	3216.0	3587.6	3641.0	4099.9	4637.3	5021.5
22.5°	3525.5	3465.4	3332.5	3154.9	3047.2	3220.9	3596.3	3649.7	4149.3	4731.4	5180.6
25°	4390.9	4307.5	4081.4	3732.2	3396.5	3360.6	3669.1	3723.4	4245.4	4844.0	5332.9
27.5°	5375.6	5293.1	5016.6	4518.0	3945.6	3637.1	3836.0	3886.4	4388.0	4943.9	5449.3
30°	6318.6	6295.3	5969.3	5402.8	4636.3	4085.3	4051.3	4094.0	4493.7	5004.0	5541.5
32.5°	7118.0	7081.1	6819.2	6268.1	5427.0	4623.7	4304.6	4317.2	4573.3	5081.6	5661.8
35°	7859.2	7813.6	7583.7	7062.7	6238.1	5281.5	4694.6	4676.1	4746.9	5237.8	5836.4
37.5°	8506.3	8548.0	8292.8	7797.1	6965.7	5965.5	5220.4	5165.1	5018.6	5492.0	6089.6
40°	9047.6	9047.6	8914.7	8501.4	7751.5	6672.7	5815.1	5742.3	5427.0	5884.0	6410.8
42.5°	9242.6	9284.3	9333.8	9100.0	8454.9	7408.1	6477.7	6402.0	6002.3	6439.9	6816.3
45°	9254.3	9320.2	9573.4	9572.5	9090.3	8138.6	7224.7	7188.8	6739.6	7153.9	7318.8
47.5°	9090.3	9172.8	9589.9	9826.7	9593.8	8818.7	8041.6	7996.9	7606.0	8029.0	7844.6
50°	8837.1	8928.3	9413.4	9926.6	9936.3	9410.5	8902.1	8835.2	8559.6	9029.2	8387.9
52.5°	8384.0	8560.6	9255.2	9949.9	10161.4	9921.7	9720.9	9691.8	9626.8	9992.5	8820.6
55°	7414.9	7610.8	8858.4	9957.6	10369.9	10374.8	10488.3	10496.1	10627.0	10892.8	9142.7
57.5°	6956.9	7067.5	8165.8	9994.5	10679.4	10889.0	11270.2	11330.4	11533.1	11747.5	9510.4
60°	6668.8	6799.8	7824.3	9944.0	11165.5	11563.2	11994.9	12015.3	12232.6	12629.4	10008.1
62.5°	6438.9	6567.9	7608.9	9750.0	11711.7	12374.3	12703.1	12705.1	12868.1	13680.1	10573.7
65°	5871.3	5980.0	7173.3	9531.7	12072.5	13176.6	13525.8	13513.2	13646.1	14788.0	11230.5
67.5°	5050.6	5134.0	6283.7	8704.2	11936.7	13906.1	14767.6	14725.9	14564.9	15745.5	11488.5
70°	3904.9	3934.9	4952.6	7253.8	10663.9	14186.5	15967.7	15946.4	15128.5	15573.8	10542.6
71°	3227.7	3326.6	4364.7	6402.0	9811.1	13927.5	16084.1	16096.7	14986.9	15106.2	9891.7
72.5°	1874.3	1958.7	3163.7	4916.7	8329.7	12846.7	15480.7	15571.9	14325.2	13740.2	8449.0
75°	401.6	429.8	1172.9	2379.8	4582.0	9004.0	12219.0	12544.0	11675.8	9347.4	5092.3
77.5°	279.4	301.7	502.5	1079.8	1514.4	4449.1	7590.5	7957.2	6975.4	3512.9	1629.9
80°	221.2	246.4	391.9	533.6	409.4	1434.9	3555.6	3779.7	2326.4	783.9	274.6
82.5°	123.2	146.5	305.6	288.1	157.2	272.6	995.4	1125.4	465.7	158.1	65.0
85°	35.9	43.7	196.9	209.6	66.9	52.4	169.8	210.5	88.3	41.7	29.1
87.5°	0.0	0.0	95.1	80.5	19.4	7.8	15.5	17.5	17.5	17.5	19.4
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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REPORT NUMBER: P321769
CATALOG NUMBER: GLEON-SA5C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8	4166.8
2.5°	4183.3	4190.1	4165.8	4133.8	4099.9	4058.1	4014.5	3980.5	3979.6	3963.1	3946.6
5°	4234.7	4230.8	4163.9	4062.0	3941.7	3816.6	3697.2	3562.4	3517.8	3462.5	3444.0
7.5°	4329.8	4302.6	4161.0	3937.8	3674.0	3412.0	3141.3	2868.7	2752.3	2647.5	2629.1
10°	4449.1	4397.7	4142.5	3751.6	3267.5	2784.3	2375.9	2005.3	1842.3	1717.2	1711.3
12.5°	4573.3	4494.7	4091.1	3470.2	2734.9	2055.7	1585.2	1220.4	1084.6	997.3	1005.1
15°	4703.3	4585.9	3980.5	3090.9	2128.5	1395.1	974.0	759.6	705.3	683.0	688.8
17.5°	4836.2	4649.0	3826.3	2634.0	1529.9	900.3	674.3	614.1	614.1	619.0	620.9
20°	4951.6	4682.9	3599.3	2121.7	1037.1	655.8	589.9	581.1	586.0	593.7	594.7
22.5°	5066.1	4684.9	3303.4	1602.7	725.7	574.3	561.7	557.8	560.7	569.5	570.4
25°	5159.3	4661.6	2932.8	1139.9	579.2	541.3	535.5	533.6	535.5	546.2	546.2
27.5°	5197.1	4577.2	2480.7	801.3	519.0	504.5	502.5	504.5	507.4	515.1	516.1
30°	5201.0	4429.7	1987.8	580.1	470.5	455.0	458.9	465.7	462.8	460.8	462.8
32.5°	5210.7	4259.0	1507.6	477.3	429.8	405.5	400.7	400.7	389.0	382.2	378.4
35°	5242.7	4058.1	1093.4	428.8	388.1	359.9	341.5	320.1	297.8	286.2	283.3
37.5°	5293.1	3847.6	782.9	396.8	351.2	319.2	284.3	246.4	214.4	205.7	205.7
40°	5385.3	3630.3	579.2	371.6	322.1	282.3	229.9	180.4	151.3	146.5	146.5
42.5°	5530.8	3401.3	461.8	349.3	296.9	244.5	175.6	131.0	109.6	106.7	105.7
45°	5682.2	3149.1	403.6	327.9	269.7	200.8	130.0	97.0	84.4	81.5	81.5
47.5°	5833.5	2880.4	375.4	307.5	243.5	156.2	97.0	76.6	70.8	70.8	71.8
50°	5961.6	2600.0	355.1	285.2	209.6	118.4	76.6	65.0	63.1	66.9	67.9
52.5°	5993.6	2324.5	329.9	257.1	167.8	90.2	63.1	57.2	57.2	57.2	57.2
55°	5974.2	2111.0	296.9	222.2	124.2	71.8	54.3	50.4	49.5	49.5	49.5
57.5°	6040.2	1984.9	237.7	172.7	89.3	58.2	47.5	44.6	42.7	41.7	41.7
60°	6173.1	1902.5	169.8	124.2	66.9	48.5	40.7	37.8	34.9	33.0	33.0
62.5°	6349.6	1830.7	126.1	92.2	51.4	38.8	34.0	31.0	27.2	25.2	25.2
65°	6485.5	1702.6	96.0	68.9	38.8	31.0	26.2	25.2	19.4	17.5	16.5
67.5°	6277.8	1421.3	77.6	50.4	29.1	24.3	20.4	19.4	11.6	9.7	9.7
70°	5384.3	989.6	62.1	36.9	21.3	19.4	16.5	12.6	8.7	7.8	7.8
71°	*4882.8*	*826.6*	*56.3*	*31.0*	*18.4*	*18.4*	*15.5*	*10.7*	*7.8*	*6.8*	*6.8*
72.5°	4056.2	586.9	47.5	24.3	16.5	19.4	16.5	9.7	7.8	6.8	5.8
75°	2354.6	245.4	33.0	16.5	12.6	23.3	21.3	8.7	5.8	4.9	4.9
77.5°	708.2	90.2	18.4	10.7	9.7	20.4	24.3	7.8	2.9	1.0	1.0
80°	129.0	38.8	11.6	6.8	6.8	12.6	18.4	3.9	0.0	0.0	0.0
82.5°	45.6	19.4	6.8	3.9	2.9	5.8	8.7	0.0	0.0	0.0	0.0
85°	26.2	13.6	3.9	1.9	0.0	1.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.5	3.9	0.0	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

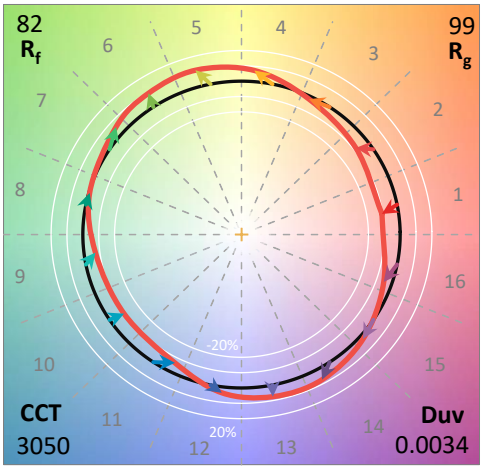
Test Information

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

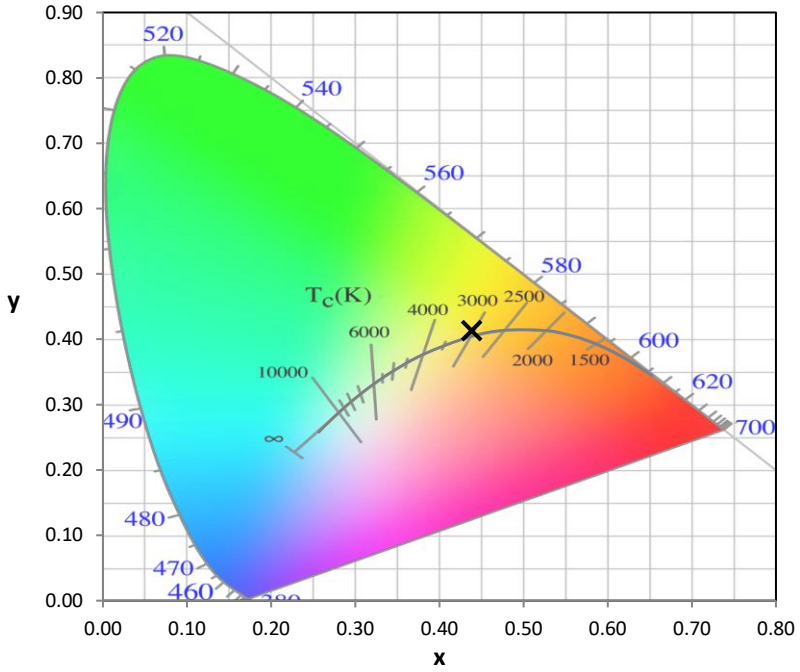
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

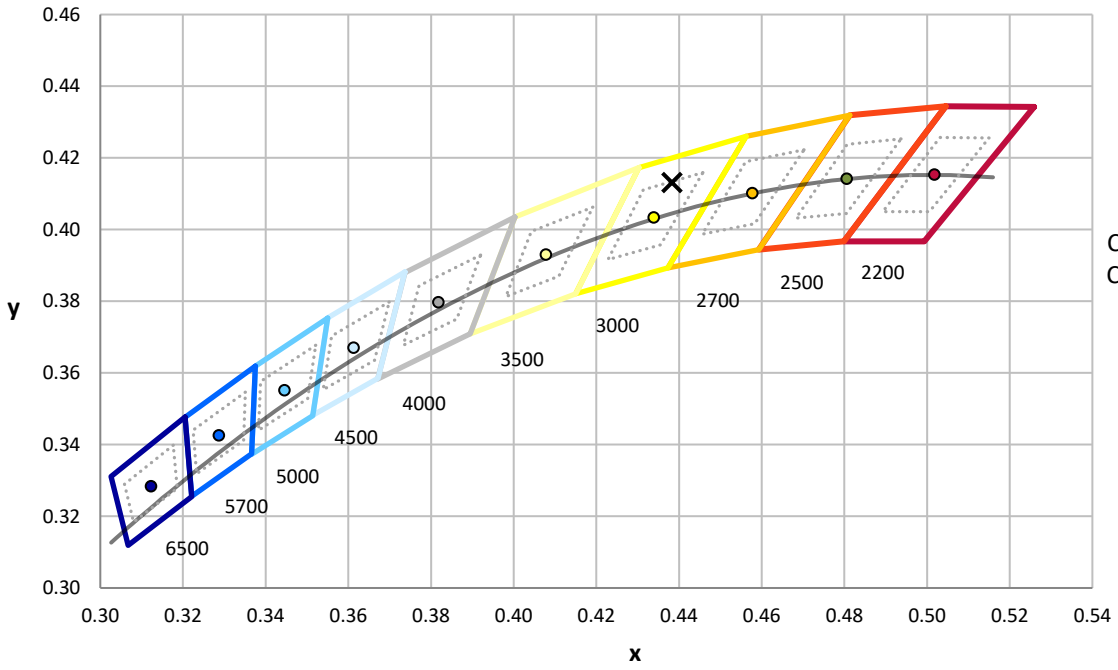
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

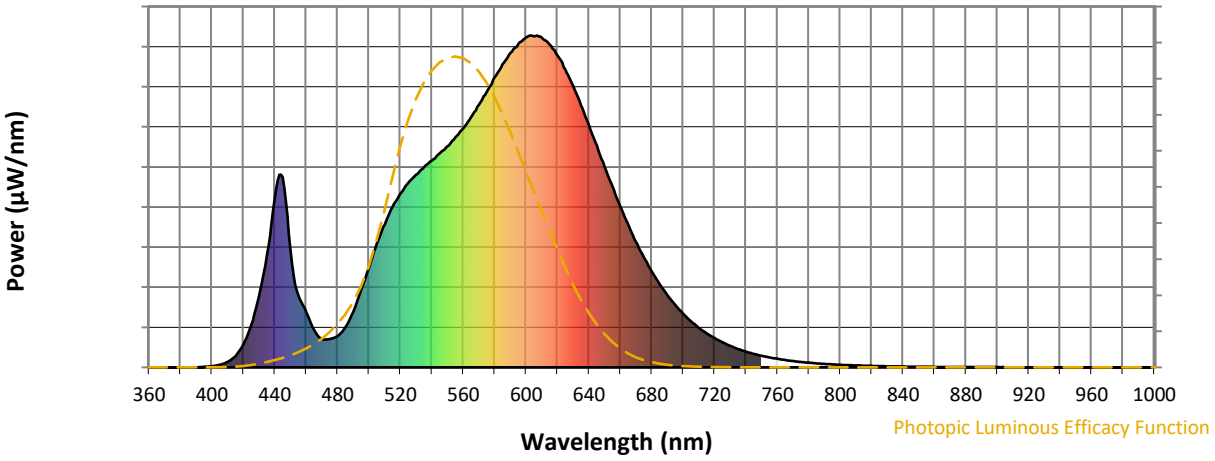


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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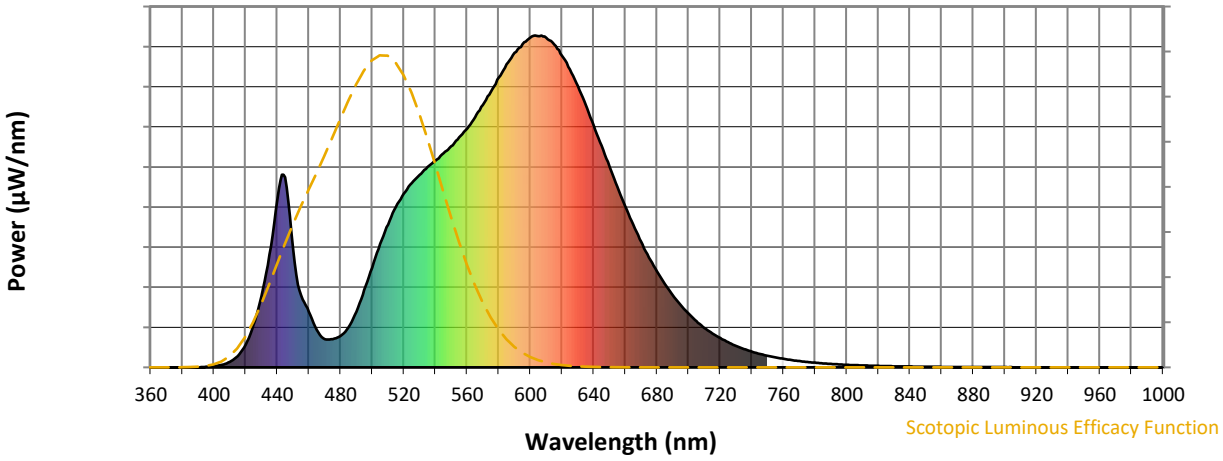
Scotopic Flux vs. Wavelength



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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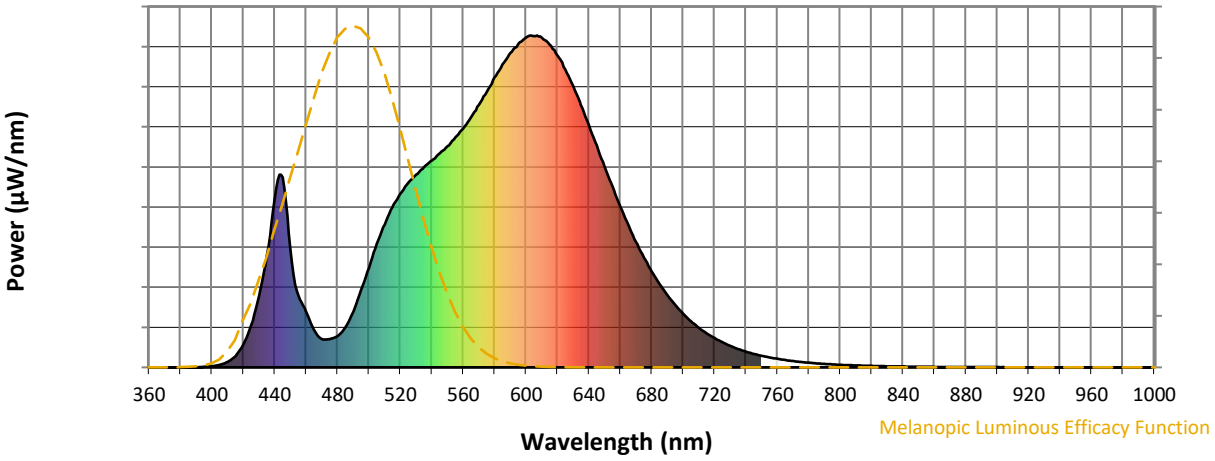
Melanopic Flux vs. Wavelength



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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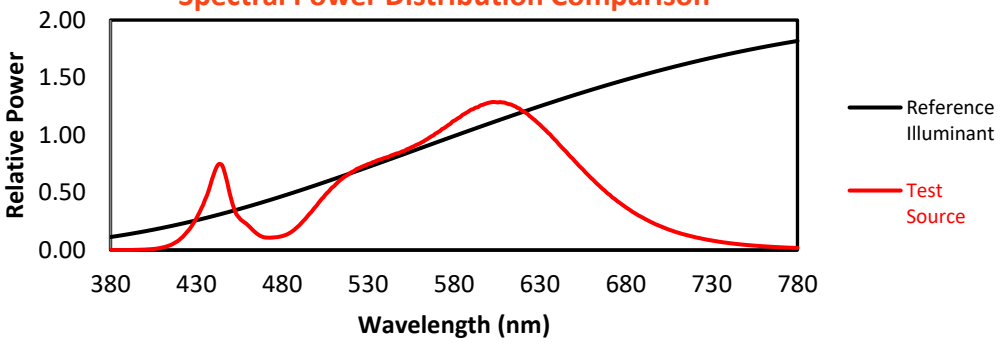
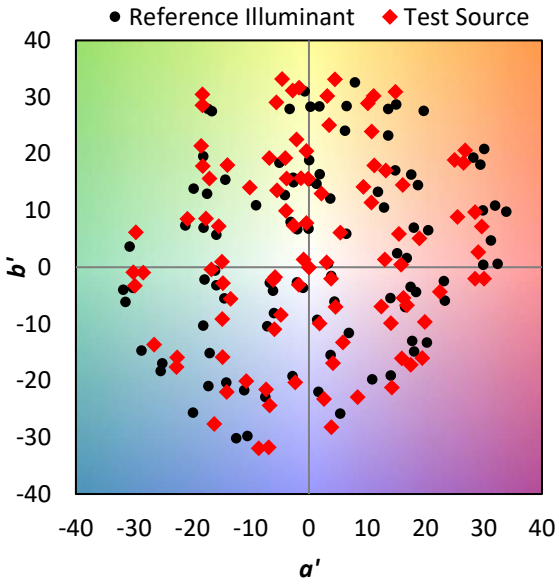
Summary

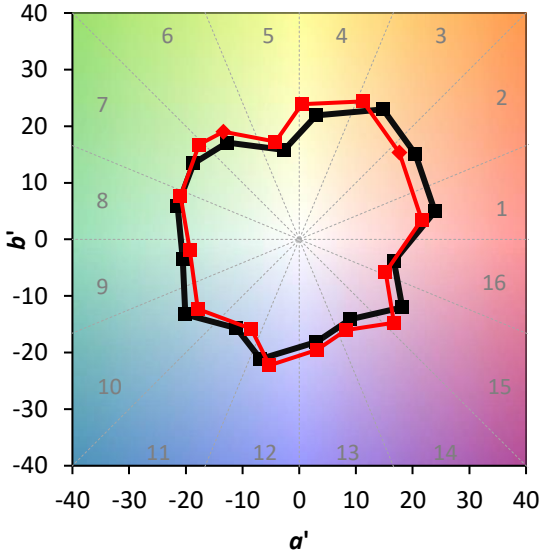
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

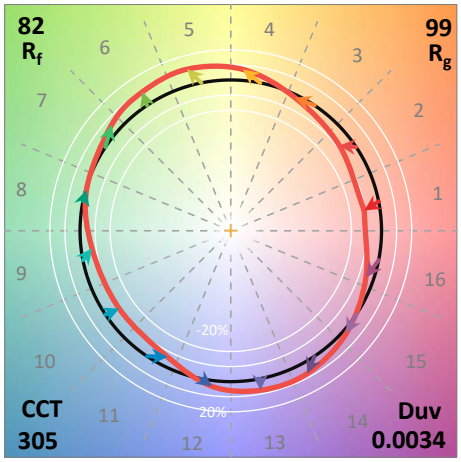
Spectral Power Distribution Comparison

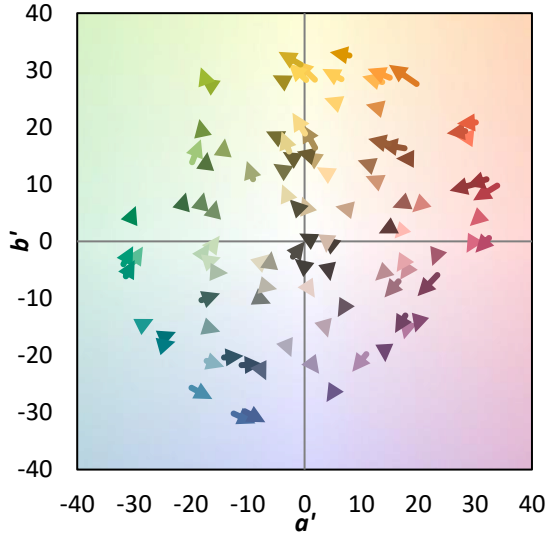


Color Vector Graphics









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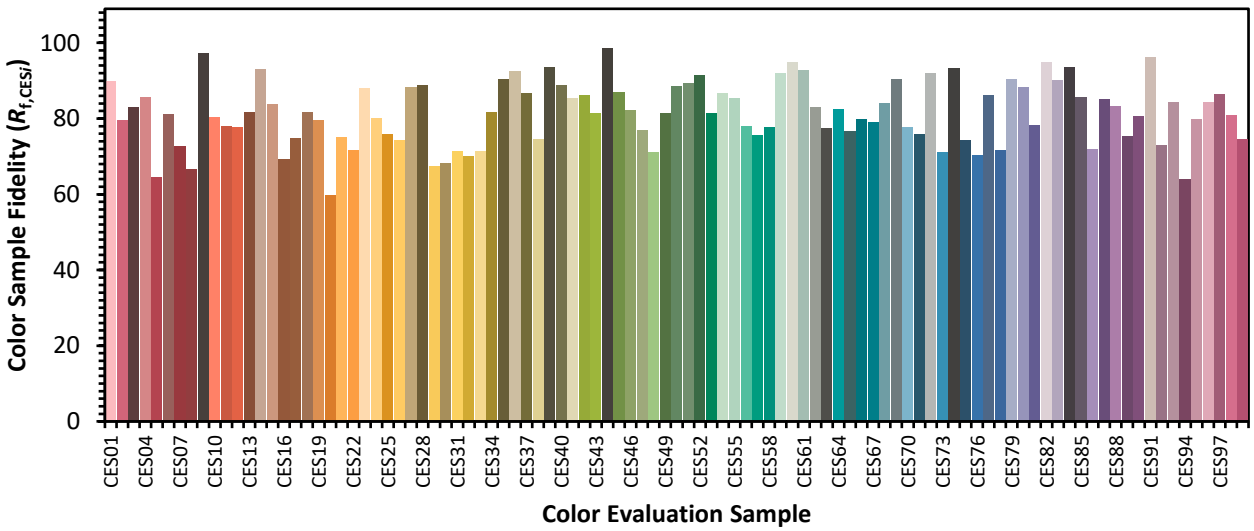
Individual Sample Fidelity Index ($R_{f,i}$)

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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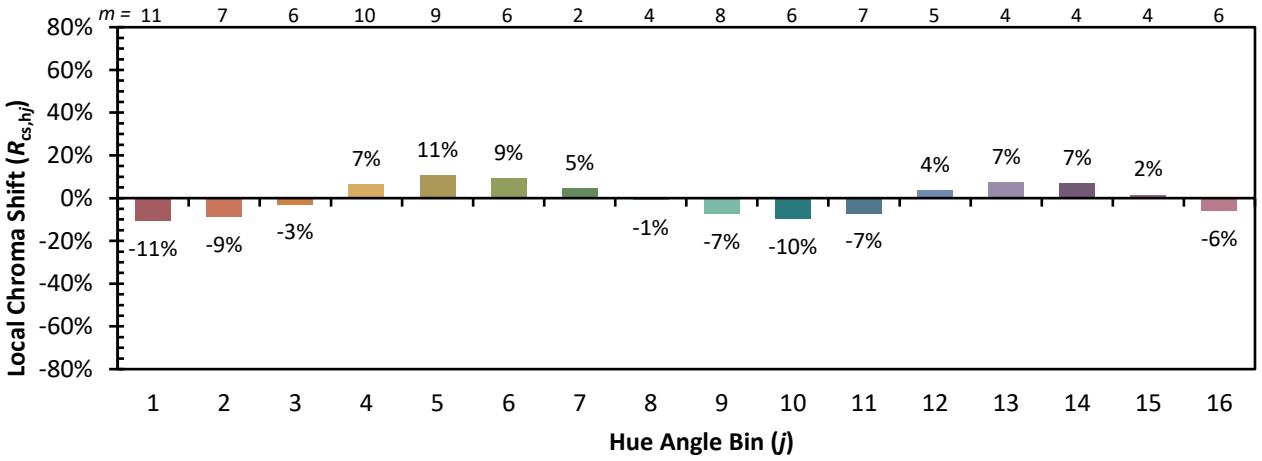
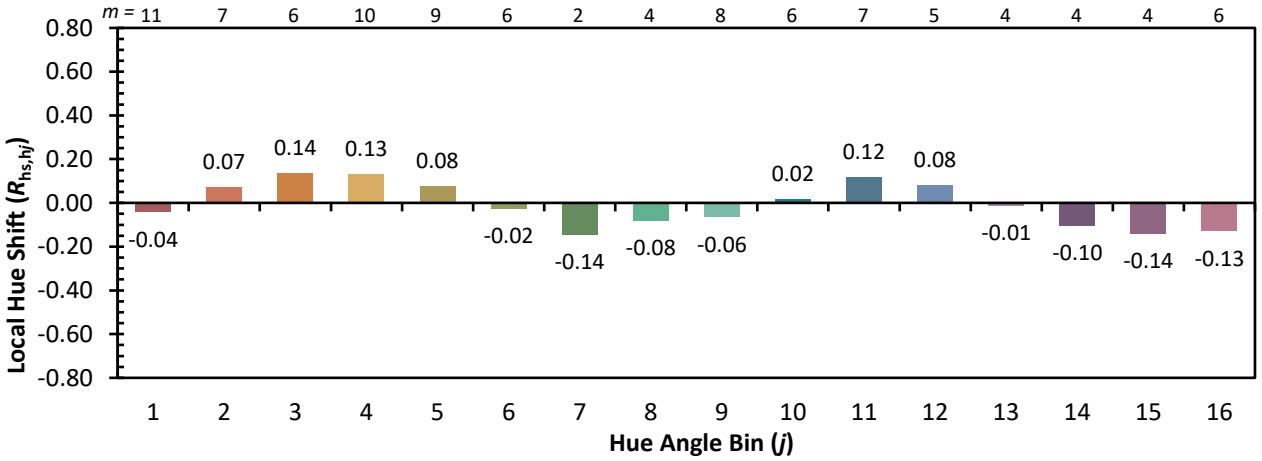
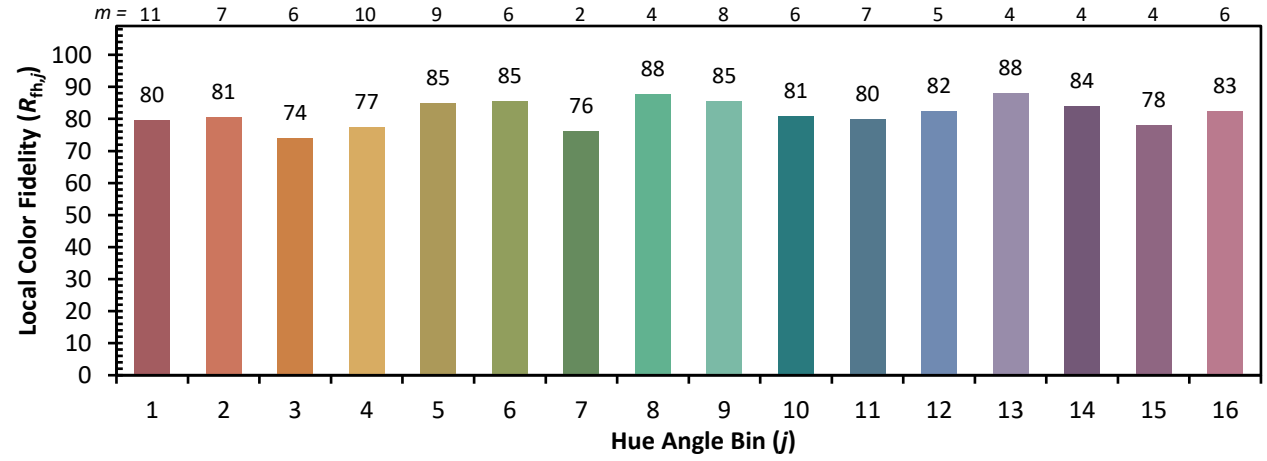
Color Rendition by Hue-Angle Bin







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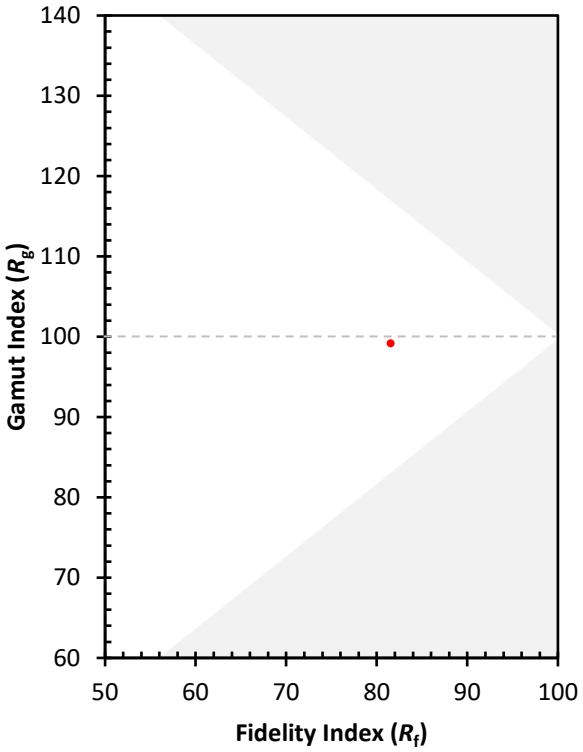
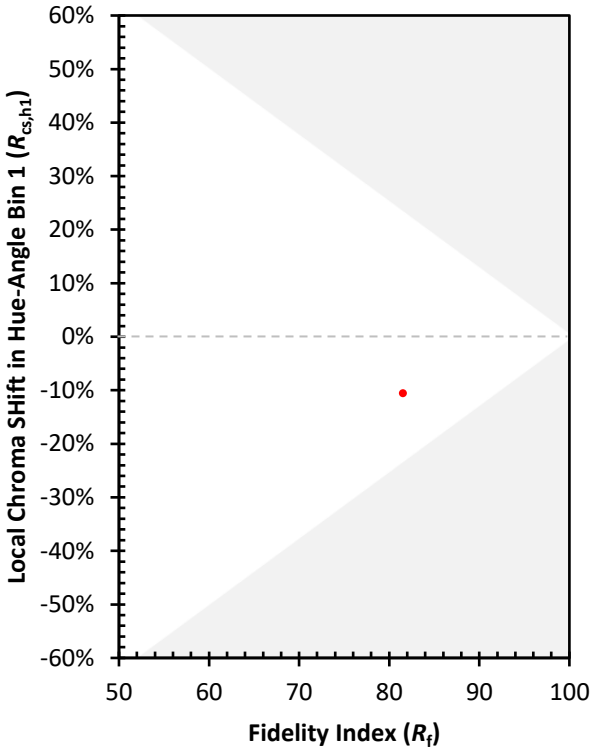
Measure Comparisons





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