Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642457

Luminaire Tested: GWS-SA6C-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P642457
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6C-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19252.1 lumens
Efficiency:	N/A
Efficacy:	101.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	189.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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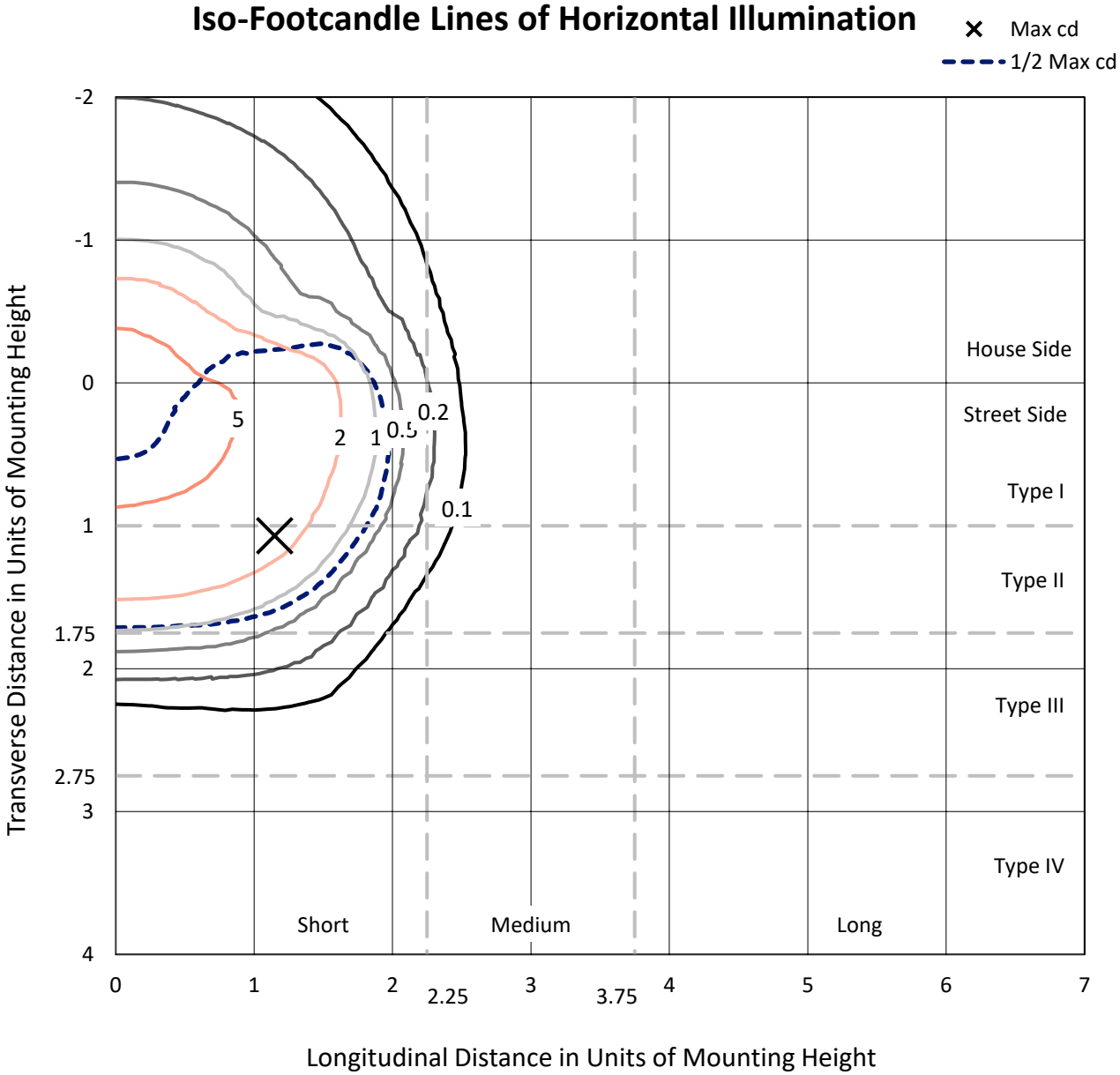
Scaled Data Report

REPORT NUMBER: P642457
CATALOG NUMBER: GWS-SA6C-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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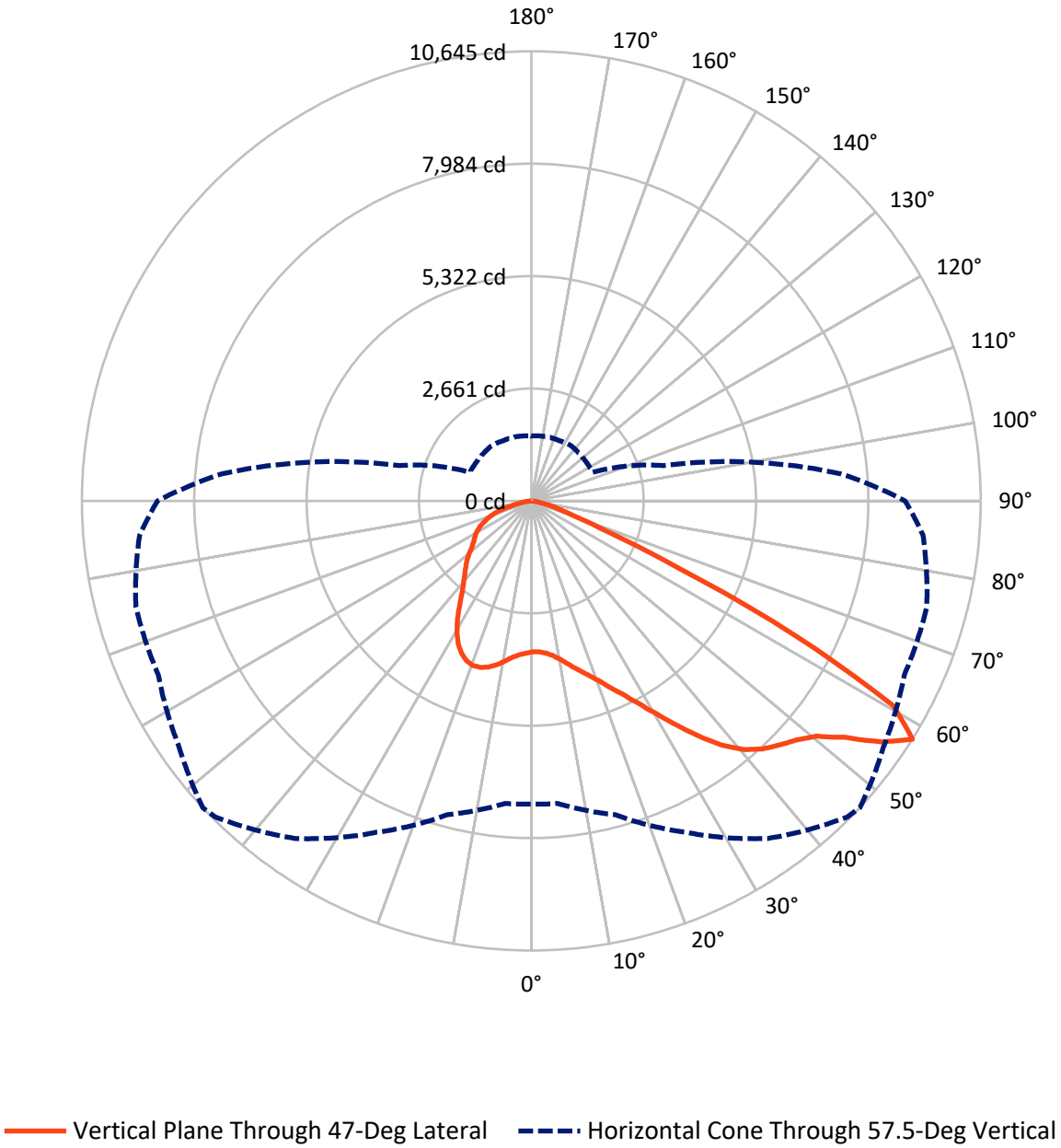
Luminous Intensity Polar Plot



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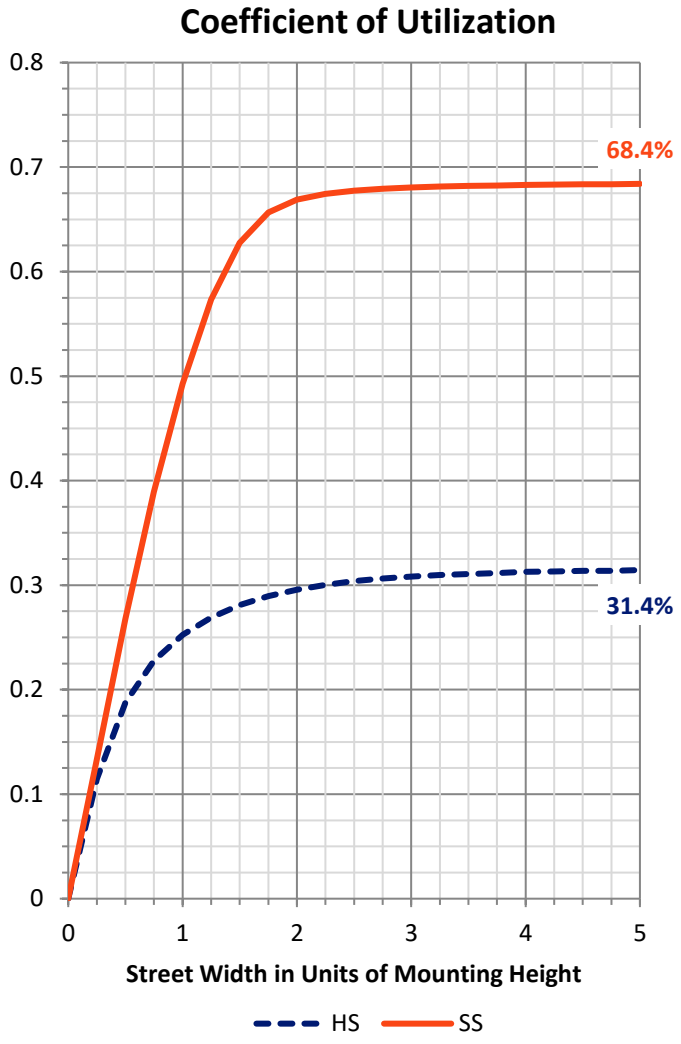
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6093.2	0.0	6093.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13158.9	0.0	13158.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	19252.1	0.0	19252.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	1.8
10°-20°	1158.2	6.0
20°-30°	2085.5	10.8
30°-40°	3149.9	16.4
40°-50°	4241.8	22.0
50°-60°	5097.1	26.5
60°-70°	2482.4	12.9
70°-80°	611.6	3.2
80°-90°	73.5	0.4
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°	19252.1	100.0
0°-180°	19252.1	100.0



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REPORT NUMBER: P642457
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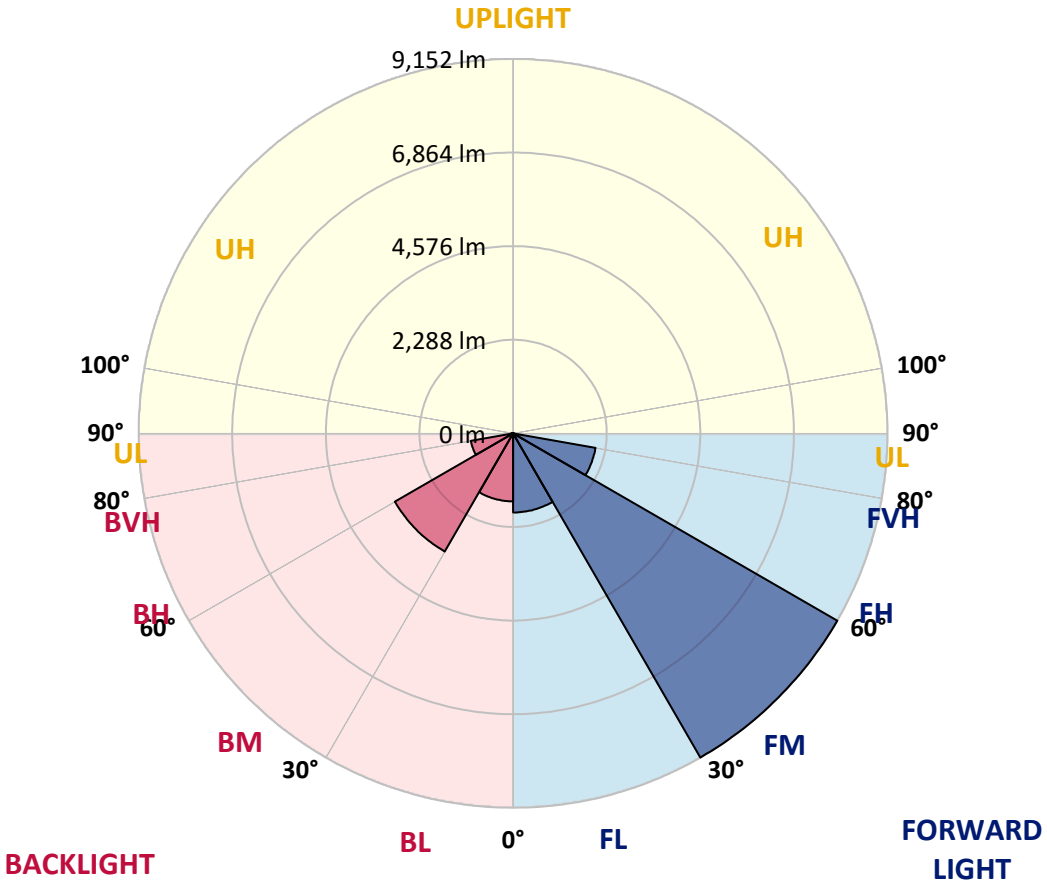
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1933.8	10.0			
FM	(30°-60°)	9151.5	47.5			
FH	(60°-80°)	2045.9	10.6			G2/5000
FVH	(80°-90°)	27.6	0.1			G1/100
BL	(0°-30°)	1662.1	8.6	B3/2500		
BM	(30°-60°)	3337.2	17.3	B3/5000		
BH	(60°-80°)	1048.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	45.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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REPORT NUMBER: P642457
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	*3570.3*	3570.3	3570.3	3570.3	3570.3
2.5°	3563.9	3562.2	3562.2	3571.9	3571.9	3575.2	*3580.0*	3584.9	3586.5	3578.4	3560.6
5°	3602.7	3602.7	3602.7	3610.8	3610.8	3614.0	*3620.5*	3622.1	3620.5	3607.5	3589.7
7.5°	3664.1	3664.1	3665.7	3675.4	3683.5	3688.4	*3699.7*	3698.1	3693.2	3672.2	3649.6
10°	3764.4	3769.2	3774.1	3785.4	3801.6	3812.9	*3821.0*	3821.0	3814.5	3782.2	3753.1
12.5°	3906.7	3913.1	3918.0	3927.7	3940.6	3960.0	*3977.8*	3977.8	3969.7	3929.3	3885.6
15°	4073.2	4079.7	4078.1	4081.3	4105.6	4133.0	*4147.6*	4157.3	4160.5	4103.9	4036.0
17.5°	4264.0	4270.5	4264.0	4254.3	4257.6	4301.2	*4327.1*	4362.7	4383.7	4307.7	4199.3
20°	4437.0	4430.6	4430.6	4437.0	4446.7	4500.1	*4538.9*	4597.1	4623.0	4530.8	4362.7
22.5°	4619.8	4634.3	4627.8	4627.8	4666.7	4755.6	*4802.5*	4878.5	4906.0	4786.3	4559.9
25°	4855.8	4868.8	4865.5	4868.8	4914.1	5040.2	*5087.1*	5227.8	5255.2	5083.8	4778.2
27.5°	5114.6	5135.6	5145.3	5142.1	5214.8	5379.7	*5438.0*	5633.6	5683.7	5416.9	5011.1
30°	5450.9	5473.5	5481.6	5478.4	5564.1	5788.8	*5855.1*	6078.3	6149.4	5811.5	5307.0
32.5°	5840.6	5863.2	5887.5	5897.2	6007.1	6236.8	*6332.2*	6563.4	6665.3	6267.5	5664.3
35°	6227.1	6246.5	6293.4	6369.4	6519.7	6754.2	*6838.3*	7066.3	7164.9	6741.3	6096.1
37.5°	6653.9	6666.9	6707.3	6812.4	7029.1	7252.2	*7336.3*	7554.6	7565.9	7198.9	6584.4
40°	7121.3	7121.3	7113.2	7216.7	7443.0	7667.8	*7740.6*	7866.7	7800.4	7551.4	7059.8
42.5°	7517.4	7511.0	7517.4	7614.4	7782.6	7965.3	*8028.4*	8004.1	7920.1	7821.4	7489.9
45°	7874.8	7879.6	7937.8	8012.2	8099.5	8207.9	*8245.1*	8107.6	8031.6	8038.1	7834.4
47.5°	8117.3	8122.2	8258.0	8382.5	8435.9	8469.8	*8453.7*	8262.9	8224.0	8296.8	8099.5
50°	8149.7	8175.5	8410.0	8665.5	8798.1	8802.9	*8757.7*	8524.8	8513.5	8596.0	8241.8
52.5°	8156.1	8182.0	8474.7	8935.5	9279.9	9352.7	*9301.0*	9058.4	8940.4	8857.9	8416.5
55°	8131.9	8161.0	8484.4	9116.6	9776.4	10067.4	*10072.3*	9729.5	9352.7	9297.7	8914.5
57.5°	*7179.5*	*7190.8*	*7692.1*	*8655.8*	*9757.0*	*10581.6*	*10644.7*	*10179.0*	*9748.9*	*9697.1*	*9313.9*
60°	5001.4	5046.6	5591.6	6864.2	8196.6	9650.2	*9854.0*	9718.2	9430.3	9053.6	7991.2
62.5°	2504.7	2543.5	3090.1	4293.1	5653.0	6801.1	*7019.4*	7163.3	7231.2	6827.0	5441.2
65°	1078.5	1107.6	1447.2	2242.8	3200.0	3754.7	*3830.7*	4003.7	4427.3	3950.3	2931.6
67.5°	721.2	740.6	913.6	1368.0	1885.4	1921.0	*1909.7*	1946.9	2039.0	1683.3	1324.3
70°	553.0	569.2	685.6	1002.5	1355.0	1159.4	*1097.9*	996.1	1081.8	1102.8	1073.7
72.5°	401.0	414.0	501.3	684.0	848.9	740.6	*730.9*	782.6	899.1	931.4	913.6
75°	258.7	265.2	318.5	375.1	438.2	475.4	*494.8*	588.6	706.6	730.9	709.9
77.5°	173.0	177.9	208.6	240.9	249.0	250.6	*257.1*	299.1	380.0	425.3	420.4
80°	90.6	90.6	101.9	101.9	116.4	139.1	*145.5*	173.0	210.2	232.8	234.5
82.5°	35.6	37.2	43.7	48.5	58.2	71.1	*76.0*	90.6	110.0	126.1	140.7
85°	14.6	16.2	17.8	21.0	25.9	32.3	*34.0*	38.8	51.7	64.7	72.8
87.5°	0.0	0.0	1.6	1.6	3.2	4.9	*4.9*	6.5	8.1	14.6	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: P642457
CATALOG NUMBER: GWS-SA6C-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3
2.5°	3581.6	3560.6	3581.6	3588.1	3605.9	3612.4	3601.1	3599.4	3599.4	3583.3	3578.4
5°	3605.9	3586.5	3607.5	3617.2	3643.1	3659.3	3662.5	3675.4	3683.5	3677.1	3675.4
7.5°	3665.7	3641.5	3664.1	3678.7	3712.6	3738.5	3749.8	3778.9	3799.9	3796.7	3795.1
10°	3770.8	3738.5	3764.4	3788.6	3825.8	3856.5	3858.2	3874.3	3895.3	3888.9	3885.6
12.5°	3892.1	3861.4	3890.5	3914.8	3958.4	3971.3	3950.3	3943.9	3947.1	3939.0	3932.5
15°	4040.9	3997.2	4023.1	4050.6	4074.8	4060.3	4015.0	3997.2	3995.6	3984.3	3977.8
17.5°	4189.6	4134.7	4154.1	4168.6	4157.3	4112.0	4055.4	4024.7	4010.2	3987.5	3981.0
20°	4336.8	4267.3	4264.0	4252.7	4201.0	4118.5	4042.5	3981.0	3943.9	3913.1	3901.8
22.5°	4505.0	4407.9	4359.4	4307.7	4194.5	4060.3	3945.5	3858.2	3798.3	3759.5	3746.6
25°	4686.1	4548.6	4448.4	4344.9	4129.8	3935.8	3775.7	3656.0	3584.9	3542.8	3528.3
27.5°	4865.5	4676.4	4526.0	4349.7	4000.5	3756.3	3541.2	3379.5	3308.4	3274.4	3263.1
30°	5108.1	4846.1	4618.1	4286.7	3830.7	3507.3	3238.8	3075.5	3028.6	3004.4	2994.7
32.5°	5387.8	5061.2	4741.0	4154.1	3614.0	3216.2	2933.2	2820.0	2787.7	2740.8	2739.2
35°	5756.5	5368.4	4857.5	3958.4	3340.7	2904.1	2698.8	2617.9	2559.7	2485.3	2478.9
37.5°	6186.6	5751.7	4920.5	3709.4	3022.2	2647.0	2524.1	2433.6	2339.8	2241.2	2228.2
40°	6631.3	6199.6	4925.4	3415.1	2710.1	2477.2	2373.8	2255.7	2139.3	2029.3	2014.8
42.5°	7098.6	6616.8	4839.7	3075.5	2454.6	2330.1	2225.0	2076.2	1945.2	1870.9	1862.8
45°	7515.8	6953.1	4645.6	2718.2	2265.4	2207.2	2073.0	1912.9	1843.4	1790.0	1778.7
47.5°	7844.1	7176.2	4383.7	2398.0	2111.8	2081.1	1906.4	1824.0	1770.6	1722.1	1710.8
50°	8005.8	7226.4	4042.5	2137.7	1969.5	1932.3	1812.7	1749.6	1714.0	1675.2	1665.5
52.5°	8206.3	7283.0	3748.2	1919.4	1830.4	1780.3	1735.0	1684.9	1659.0	1634.8	1626.7
55°	8667.1	7496.4	3593.0	1744.7	1697.8	1675.2	1668.7	1626.7	1618.6	1602.4	1587.9
57.5°	*8854.7*	*7359.0*	*3225.9*	*1602.4*	*1592.7*	*1596.0*	*1612.1*	*1573.3*	*1565.3*	*1545.8*	*1536.1*
60°	7121.3	5562.5	2184.6	1479.6	1505.4	1526.4	1542.6	1503.8	1492.5	1489.3	1476.3
62.5°	4563.2	3421.6	1524.8	1364.7	1403.6	1429.4	1439.1	1401.9	1393.9	1419.7	1421.3
65°	2375.4	1864.4	1237.0	1241.9	1274.2	1313.0	1332.4	1319.5	1316.2	1343.7	1345.3
67.5°	1212.7	1140.0	1078.5	1096.3	1122.2	1172.3	1217.6	1274.2	1293.6	1296.8	1298.4
70°	1033.3	1000.9	970.2	981.5	1009.0	1036.5	1080.2	1107.6	1075.3	1067.2	1064.0
72.5°	879.6	855.4	840.8	853.8	868.3	863.5	850.5	863.5	868.3	869.9	871.6
75°	684.0	666.2	654.9	656.5	656.5	638.7	614.5	599.9	583.7	570.8	570.8
77.5°	418.8	422.0	433.4	431.7	430.1	423.7	399.4	386.5	347.7	336.3	336.3
80°	239.3	244.2	255.5	258.7	258.7	250.6	226.4	211.8	194.0	186.0	184.3
82.5°	145.5	152.0	158.5	161.7	163.3	153.6	132.6	121.3	111.6	103.5	103.5
85°	76.0	79.2	85.7	87.3	82.5	72.8	61.4	56.6	46.9	45.3	45.3
87.5°	21.0	22.6	25.9	21.0	19.4	14.6	8.1	6.5	3.2	1.6	1.6
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

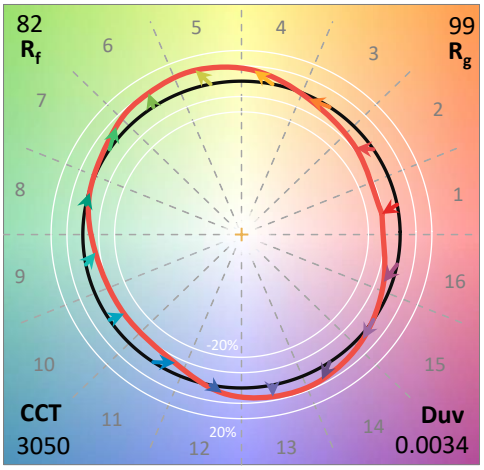
Test Information

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

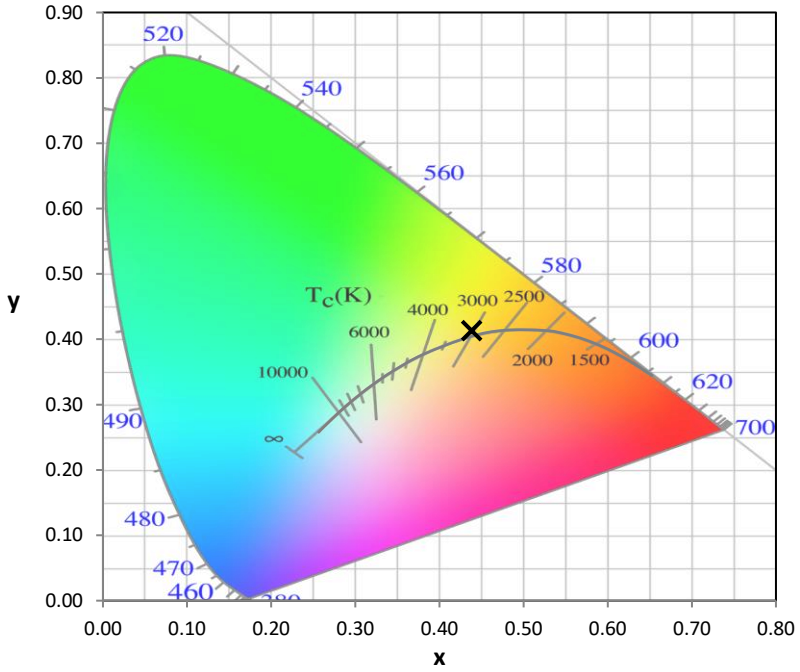
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

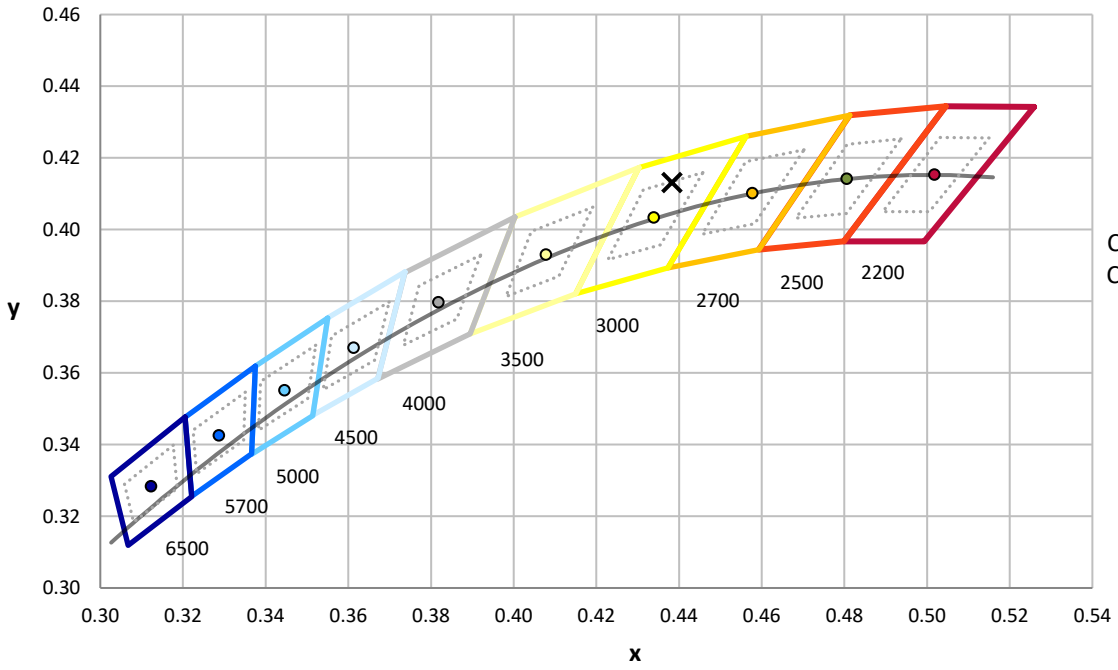
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

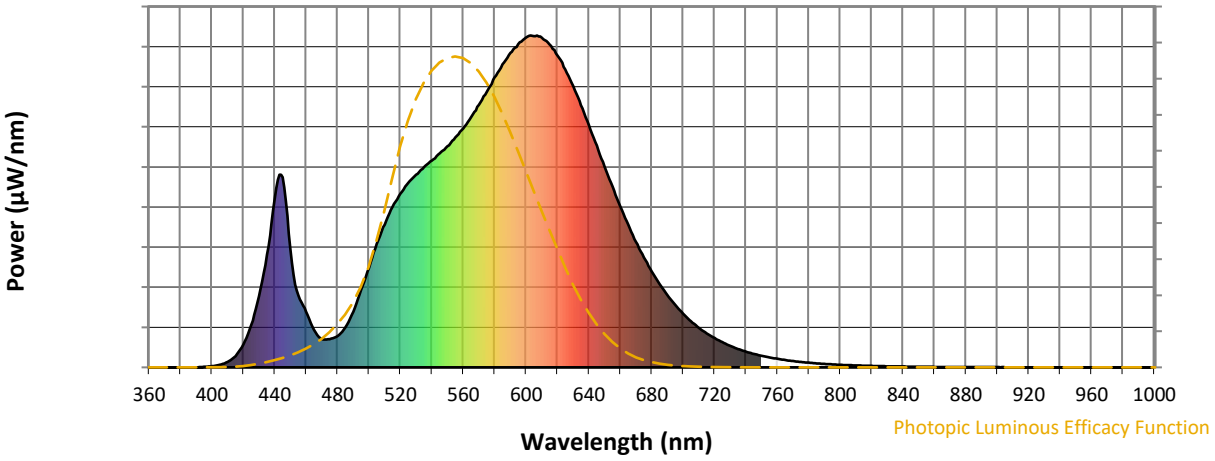


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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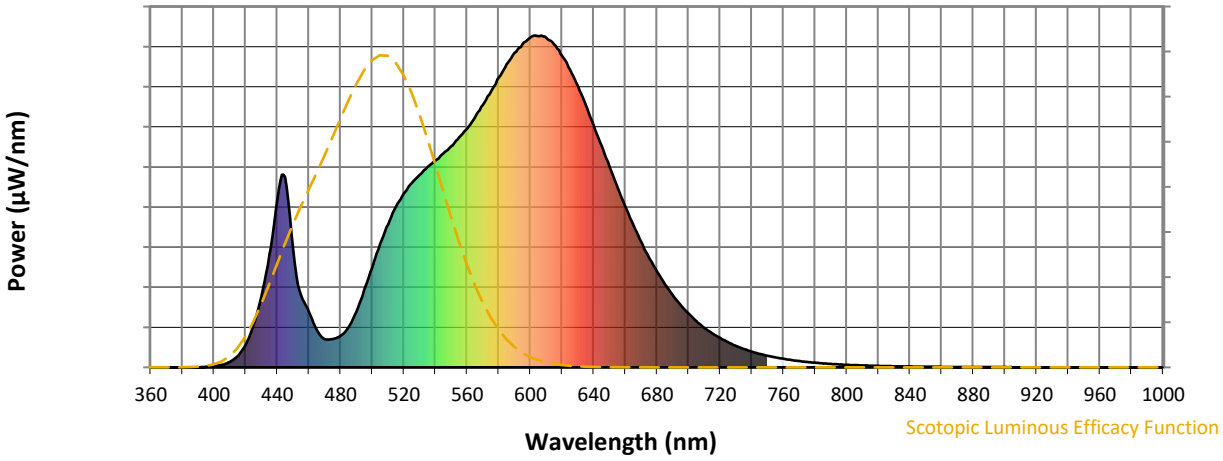
Scotopic Flux vs. Wavelength



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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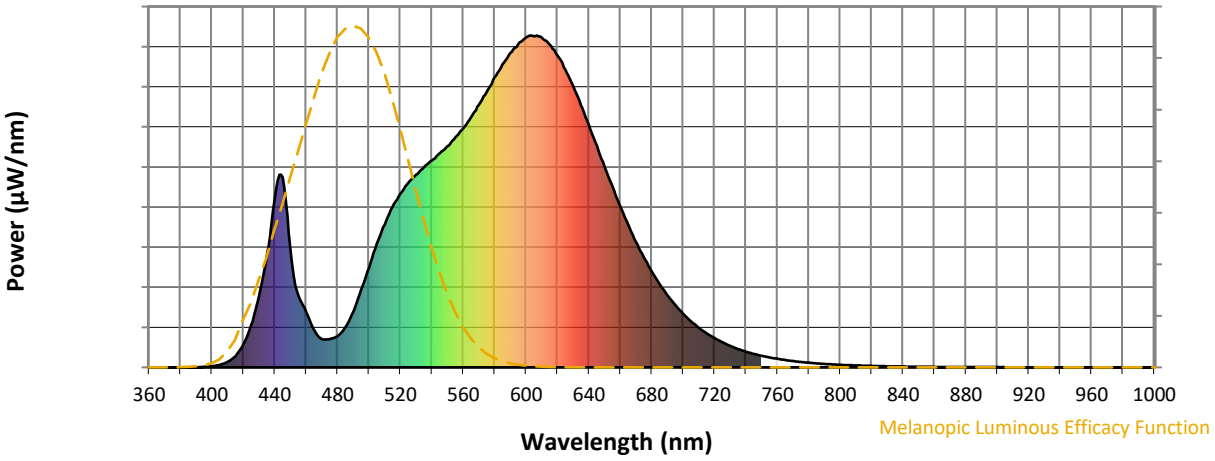
Melanopic Flux vs. Wavelength



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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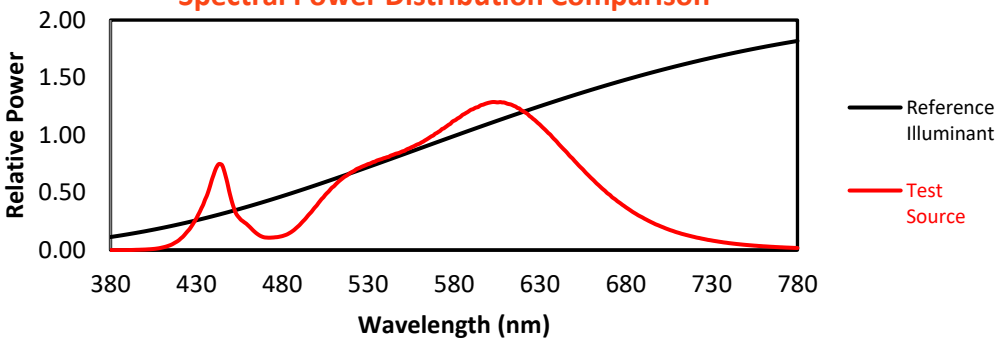
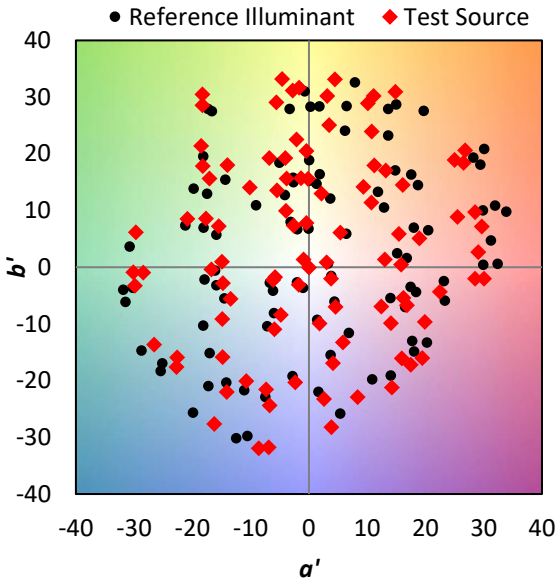
Summary

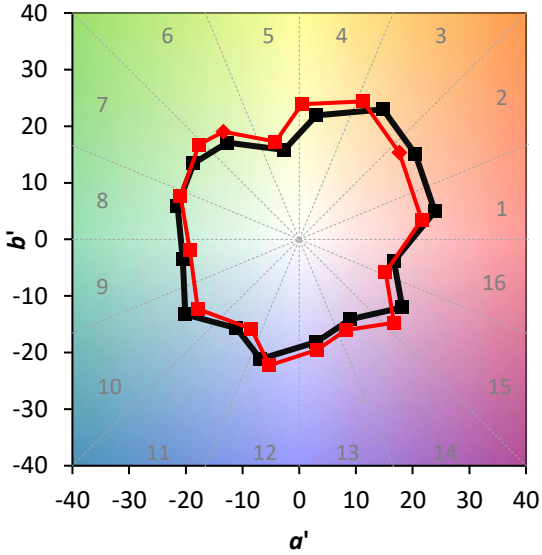
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

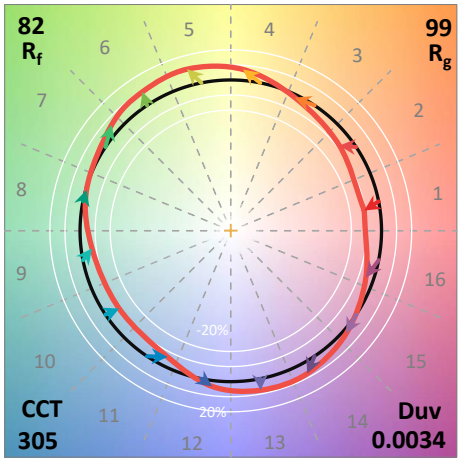
Spectral Power Distribution Comparison

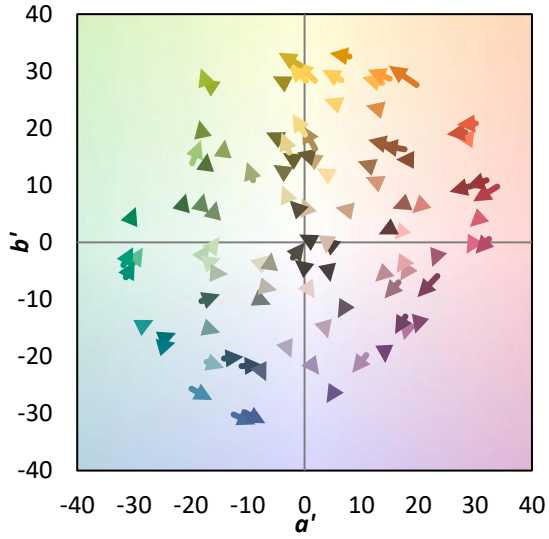


Color Vector Graphics









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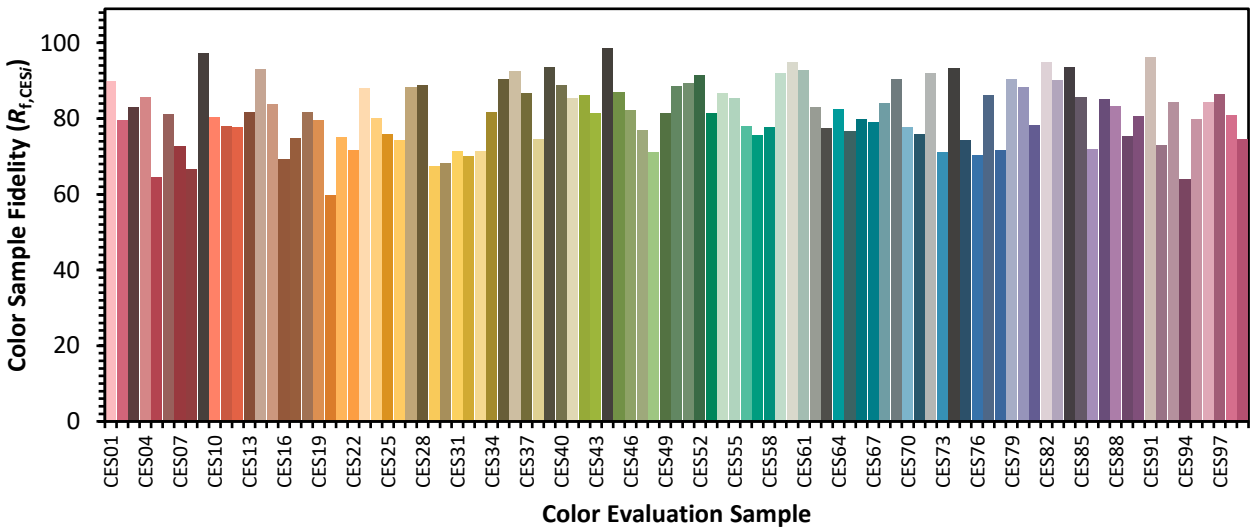
Individual Sample Fidelity Index ($R_{f,i}$)

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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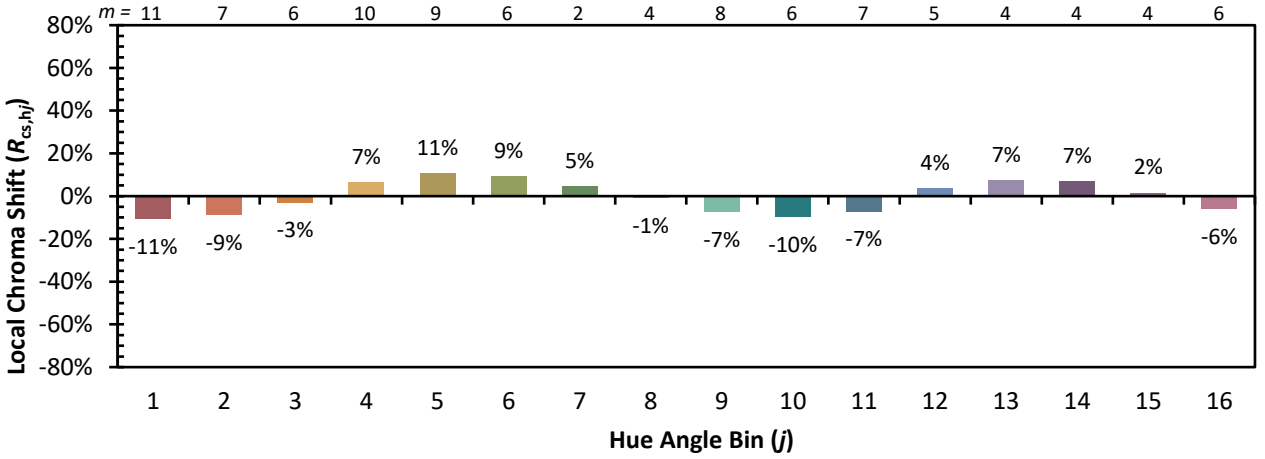
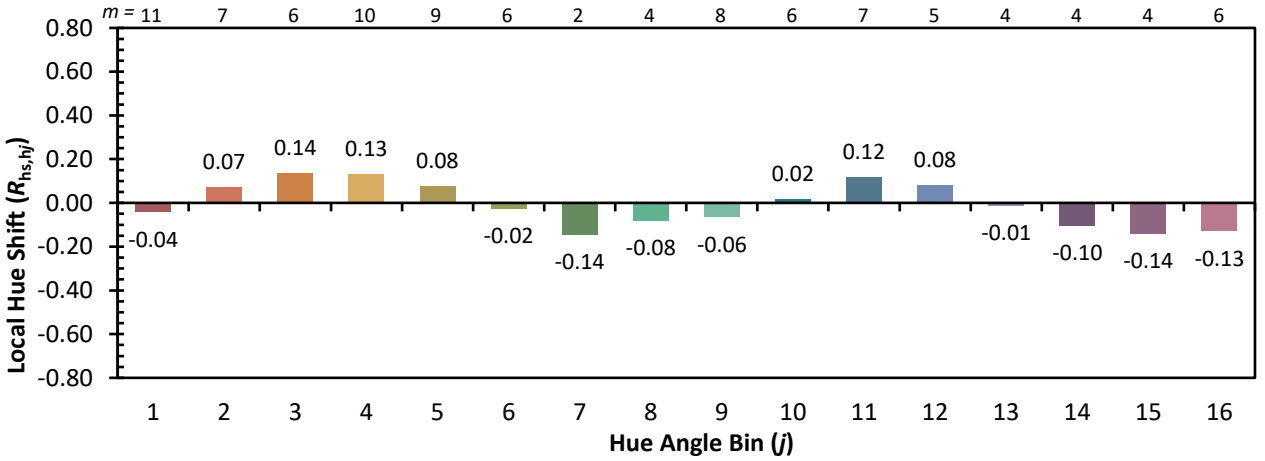
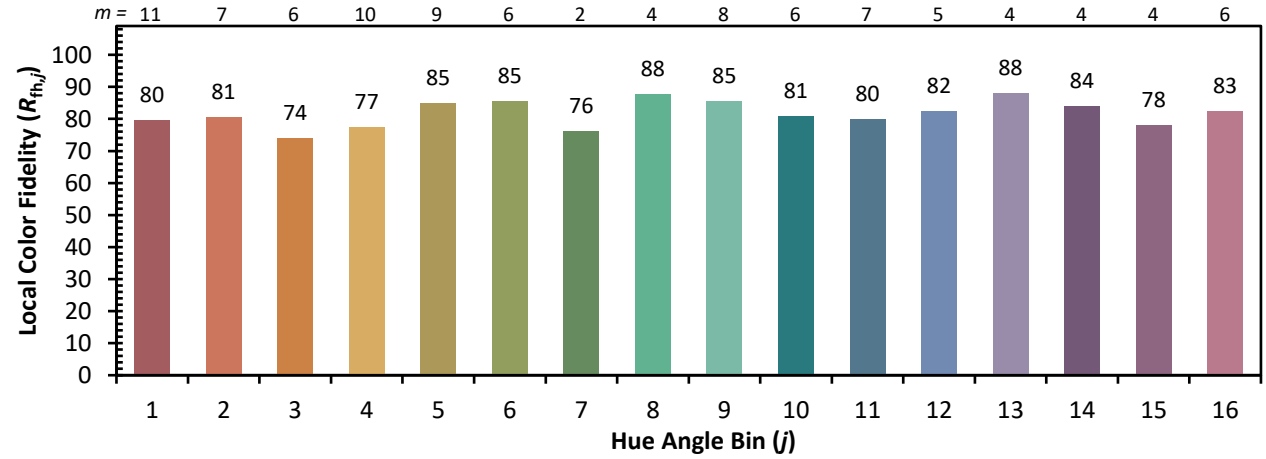
Color Rendition by Hue-Angle Bin







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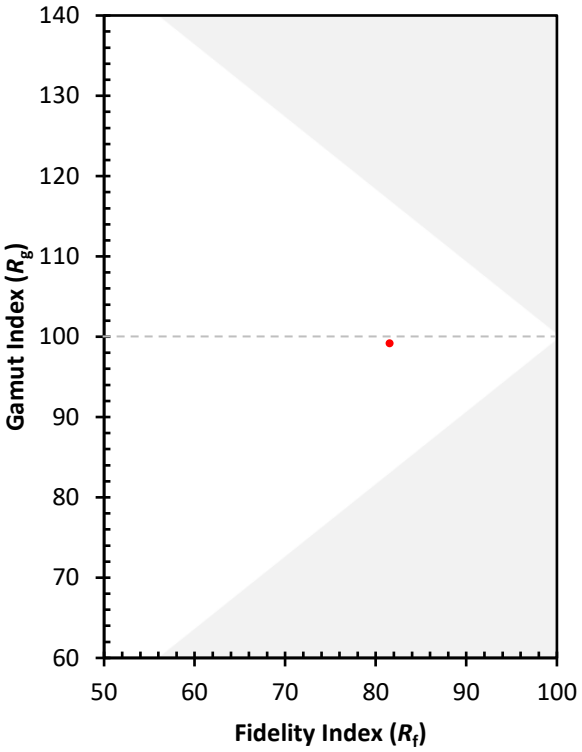
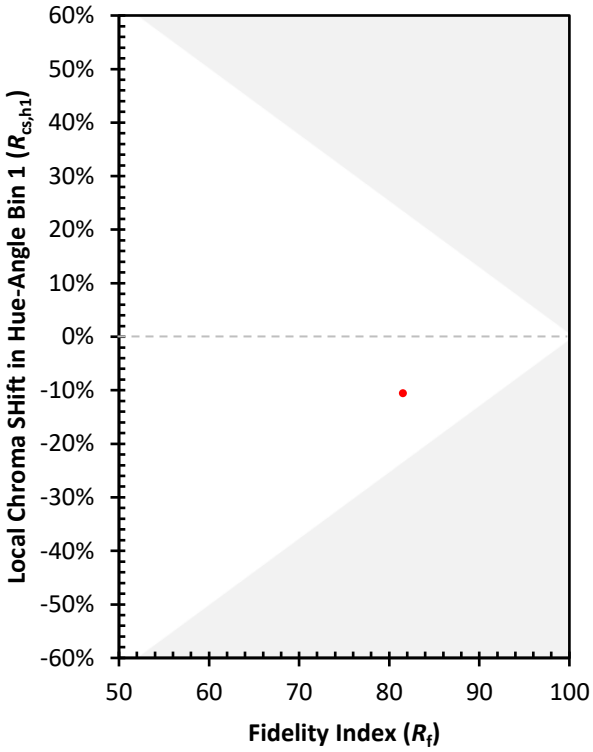
Measure Comparisons





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