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: P642924

Luminaire Tested: GWS-SA6D-830-U-SL2-W-GRSBK

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:	P642924
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16709.2 lumens
Efficiency:	N/A
Efficacy:	68.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	245.7
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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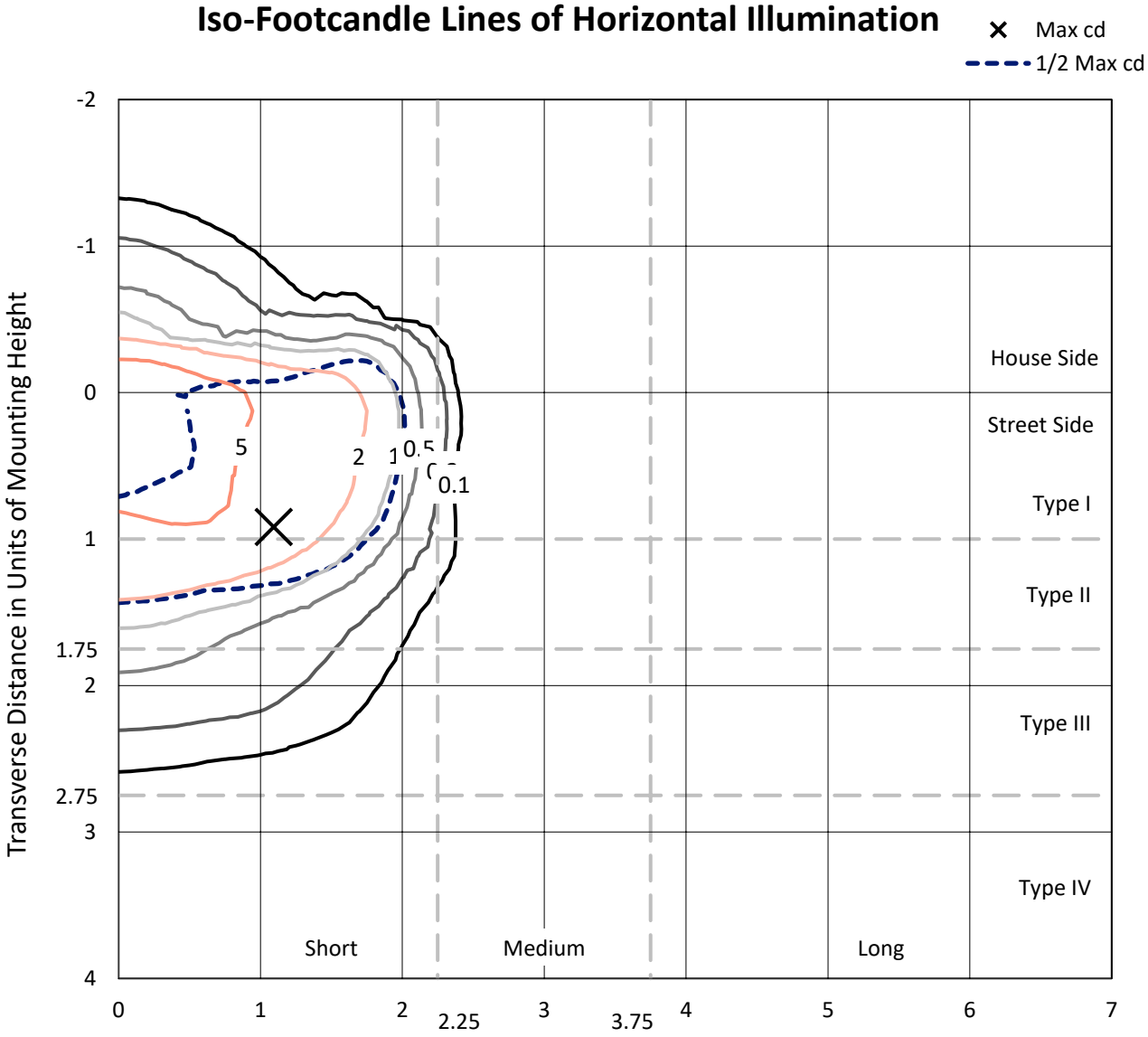
REPORT NUMBER: P642924
CATALOG NUMBER: GWS-SA6D-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Short - N/A

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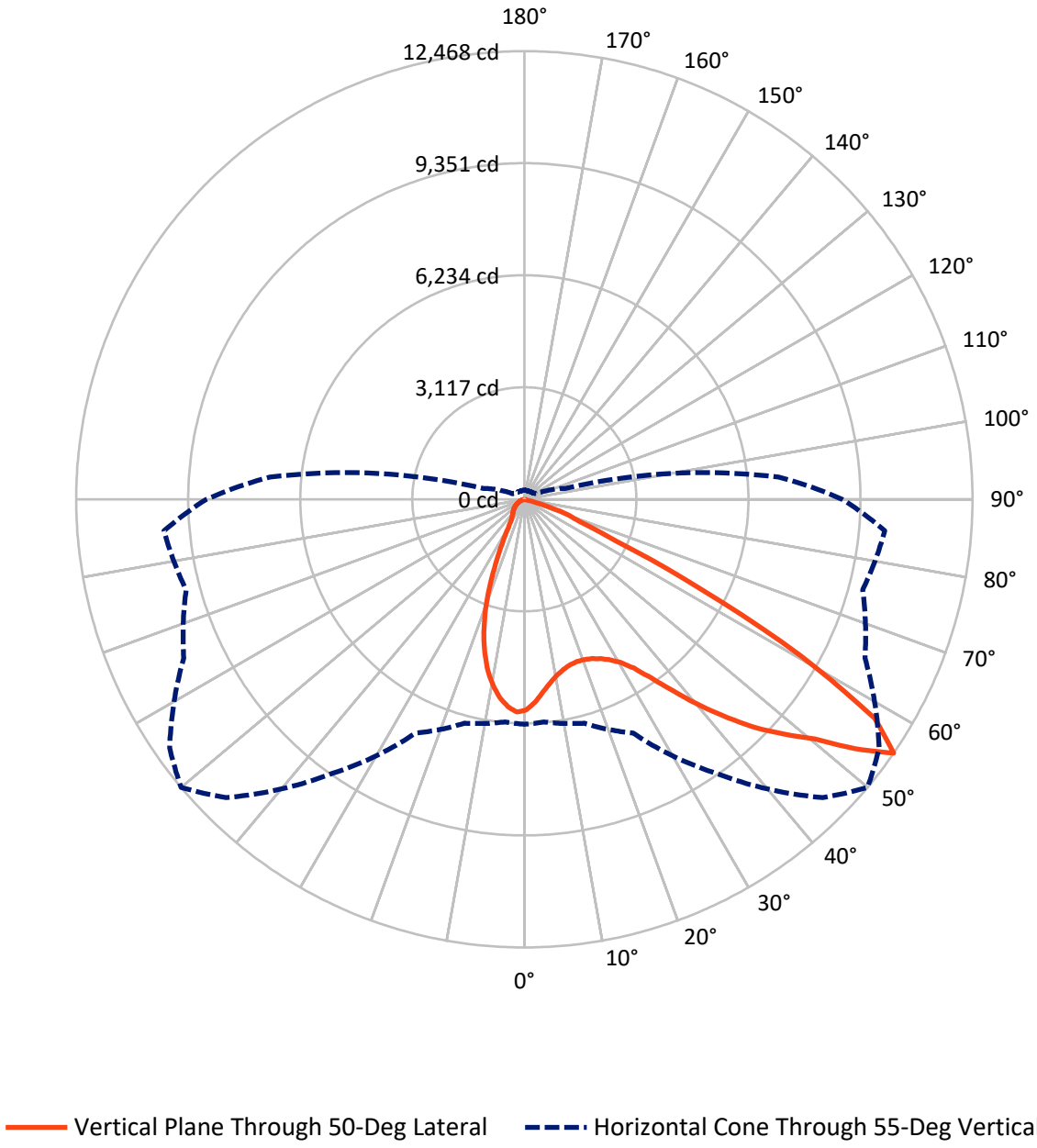
Luminous Intensity Polar Plot



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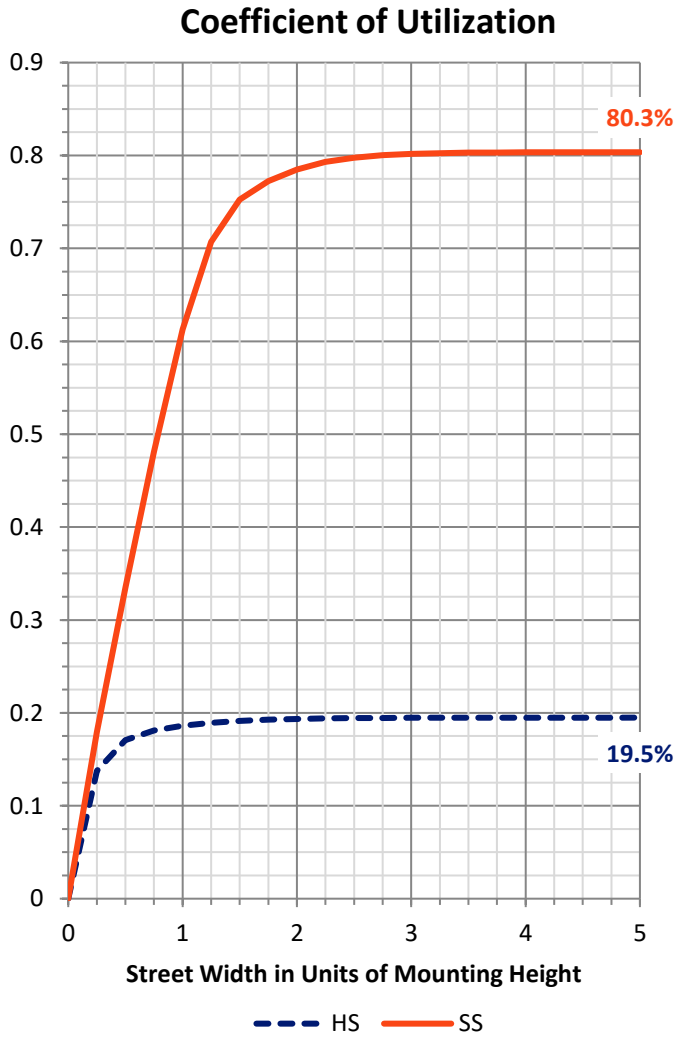
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.5	0.0	3292.5
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	13416.7	0.0	13416.7
	% Fixture	80.3	0.0	80.3
Total	Lumens	16709.2	0.0	16709.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.8	3.1
10°-20°	1267.0	7.6
20°-30°	1787.1	10.7
30°-40°	2644.5	15.8
40°-50°	3815.2	22.8
50°-60°	4500.3	26.9
60°-70°	2007.5	12.0
70°-80°	172.6	1.0
80°-90°	0.1	0.0
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°	16709.2	100.0
0°-180°	16709.2	100.0



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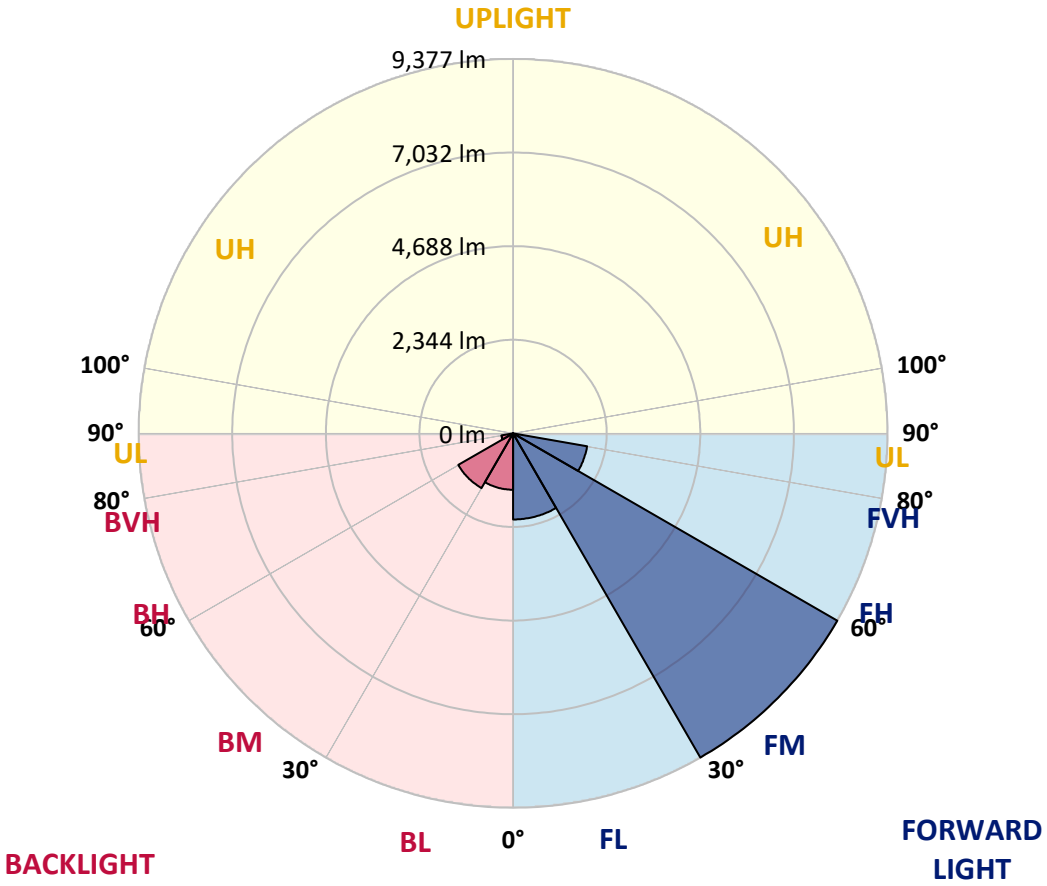
REPORT NUMBER: P642924
CATALOG NUMBER: GWS-SA6D-830-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2157.2	12.9			
FM	(30°-60°)	9376.6	56.1			
FH	(60°-80°)	1882.8	11.3			G2/5000
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	1411.7	8.4	B3/2500		
BM	(30°-60°)	1583.5	9.5	B2/2500		
BH	(60°-80°)	297.3	1.8	B1/500		G1/500
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P642924
CATALOG NUMBER: GWS-SA6D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	*5862.5*	5862.5	5862.5	5862.5	5862.5
2.5°	5446.4	5450.5	5452.5	5507.6	5528.0	5609.6	*5652.4*	5674.9	5734.0	5803.4	5860.5
5°	5081.3	5075.1	5085.3	5154.7	5199.6	5319.9	*5385.2*	5430.1	5560.6	5723.8	5860.5
7.5°	4763.0	4775.3	4787.5	4863.0	4930.3	5060.9	*5154.7*	5222.0	5403.6	5646.3	5876.8
10°	4538.7	4538.7	4557.0	4642.7	4722.2	4883.4	*4977.2*	5062.9	5279.1	5576.9	5895.2
12.5°	4373.4	4375.5	4397.9	4495.8	4587.6	4754.9	*4852.8*	4936.4	5175.1	5507.6	5899.2
15°	4295.9	4289.8	4308.2	4412.2	4514.2	4671.2	*4773.2*	4854.8	5101.7	5468.8	5919.6
17.5°	4275.5	4271.4	4285.7	4387.7	4491.7	4644.7	*4744.7*	4826.3	5091.5	5481.1	5980.8
20°	4334.7	4326.5	4320.4	4408.1	4506.0	4657.0	*4761.0*	4852.8	5140.4	5548.4	6074.7
22.5°	4475.4	4475.4	4461.1	4504.0	4569.3	4705.9	*4814.0*	4934.4	5268.9	5683.0	6213.4
25°	4734.5	4714.1	4687.6	4705.9	4697.8	4783.4	*4911.9*	5079.2	5511.7	5905.4	6382.7
27.5°	5030.3	5048.6	5003.7	5005.8	4934.4	4903.8	*5052.7*	5305.6	5872.7	6219.5	6633.6
30°	5432.1	5417.8	5419.9	5413.8	5248.5	5103.7	*5264.8*	5601.4	6327.6	6698.9	6960.0
32.5°	5746.2	5766.6	5834.0	5872.7	5656.5	5423.9	*5595.3*	6003.3	6845.7	7245.5	7359.8
35°	6078.7	6115.5	6252.1	6378.6	6197.1	5929.8	*6113.4*	6535.7	7333.2	7786.1	7818.7
37.5°	6429.6	6503.0	6666.2	6888.6	6860.0	6623.4	*6790.6*	7161.9	7716.7	8112.5	8198.1
40°	6831.4	6902.8	7170.1	7490.3	7557.6	7504.6	*7559.7*	7775.9	7969.7	8126.7	8361.3
42.5°	7272.0	7370.0	7708.6	8136.9	8389.9	8436.8	*8308.3*	8285.9	8079.8	7963.6	8326.6
45°	7792.2	7906.4	8289.9	8844.8	9246.6	9309.9	*9087.5*	8799.9	8149.2	7843.2	8222.6
47.5°	8375.6	8483.7	8865.2	9532.2	10129.9	10154.4	*9766.8*	9303.7	8355.2	7981.9	8302.2
50°	8571.4	8638.7	8969.2	9752.5	10854.0	11041.7	*10480.7*	9870.8	8769.3	8389.9	8689.7
52.5°	7898.3	7924.8	8212.4	9003.9	10707.1	11912.7	*11523.1*	10717.3	9505.7	9012.0	9287.4
55°	*6258.2*	*6215.4*	*6448.0*	*7174.1*	*9305.8*	*11735.2*	*12467.5*	*12047.3*	*10454.2*	*9742.3*	*10064.6*
57.5°	4377.5	4326.5	4273.5	4765.1	6943.6	9948.3	*11488.4*	12233.0	11357.9	10466.4	10903.0
60°	3598.3	3549.3	3292.3	3065.9	4198.0	7143.5	*8824.4*	10225.7	11284.4	10429.7	10876.5
62.5°	3108.7	3080.2	2976.1	2668.1	2470.3	4077.7	*5525.9*	6868.2	8659.1	8190.0	8214.5
65°	2441.7	2433.5	2504.9	2537.6	2184.7	2256.1	*2819.1*	3569.7	4681.4	4414.2	4185.8
67.5°	1668.6	1650.2	1784.9	2194.9	2101.0	1780.8	*1650.2*	1664.5	2025.6	1238.2	983.2
70°	1060.7	1017.9	1019.9	1360.6	1709.4	1405.5	*1272.9*	1119.9	1007.7	183.6	208.1
72.5°	679.3	652.8	561.0	614.0	791.5	685.4	*691.5*	595.6	397.8	97.9	114.2
75°	285.6	263.1	201.9	161.1	159.1	100.0	*87.7*	81.6	55.1	55.1	59.2
77.5°	2.0	0.0	0.0	2.0	4.1	2.0	*2.0*	4.1	8.2	12.2	14.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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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REPORT NUMBER: P642924
CATALOG NUMBER: GWS-SA6D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5
2.5°	5895.2	5846.2	5901.3	5921.7	5919.6	5921.7	5862.5	5821.7	5819.7	5768.7	5744.2
5°	5917.6	5878.8	5919.6	5893.1	5829.9	5750.3	5644.3	5552.5	5511.7	5452.5	5423.9
7.5°	5960.4	5919.6	5913.5	5807.4	5650.4	5483.1	5295.4	5128.2	5038.4	4930.3	4936.4
10°	5991.0	5944.1	5864.6	5648.3	5387.2	5120.0	4840.6	4591.7	4434.6	4289.8	4265.3
12.5°	6003.3	5933.9	5748.3	5421.9	5054.7	4705.9	4295.9	3941.0	3696.2	3506.5	3480.0
15°	6025.7	5913.5	5599.4	5148.6	4644.7	4151.1	3628.9	3143.4	2819.1	2600.8	2619.2
17.5°	6060.4	5891.1	5432.1	4842.6	4204.1	3506.5	2800.7	2243.8	1946.0	1819.5	1821.6
20°	6109.3	5864.6	5248.5	4506.0	3675.8	2778.3	1958.3	1538.0	1454.4	1450.3	1444.2
22.5°	6174.6	5838.0	5052.7	4136.8	3049.6	1946.0	1303.5	1172.9	1207.6	1274.9	1287.1
25°	6252.1	5805.4	4834.4	3720.7	2366.2	1276.9	977.1	956.7	1040.3	1130.1	1150.5
27.5°	6372.5	5789.1	4585.6	3247.4	1660.4	915.9	799.6	811.9	887.3	962.8	981.2
30°	6576.5	5819.7	4314.3	2717.1	1066.8	730.3	693.5	711.9	752.7	791.5	807.8
32.5°	6853.9	5909.4	4051.1	2137.8	760.9	634.4	626.2	636.4	652.8	675.2	681.3
35°	7178.2	6064.5	3779.8	1529.9	628.3	579.3	571.2	571.2	579.3	583.4	585.4
37.5°	7445.4	6227.6	3524.9	1017.9	563.0	536.5	524.2	518.1	516.1	520.2	522.2
40°	7561.7	6295.0	3247.4	740.5	516.1	497.7	479.4	461.0	461.0	475.3	477.3
42.5°	7480.1	6219.5	2927.2	612.0	483.4	456.9	428.4	412.0	420.2	434.5	438.6
45°	7306.7	6033.9	2574.3	540.6	450.8	416.1	383.5	373.3	381.5	399.8	403.9
47.5°	7278.2	5911.5	2152.0	493.6	416.1	381.5	346.8	336.6	346.8	361.1	365.1
50°	7561.7	6017.5	1682.9	452.8	383.5	344.7	316.2	306.0	312.1	320.3	324.3
52.5°	8079.8	6411.2	1358.5	414.1	344.7	308.0	289.7	277.4	277.4	285.6	287.6
55°	*8844.8*	*7098.7*	*1172.9*	*369.2*	*299.9*	*279.5*	*263.1*	*250.9*	*250.9*	*255.0*	*257.0*
57.5°	9726.0	7930.9	1215.7	310.1	263.1	252.9	238.7	228.5	232.5	232.5	232.5
60°	9603.6	7869.7	1301.4	261.1	232.5	228.5	216.2	212.1	222.3	214.2	210.1
62.5°	7074.2	5436.2	681.3	214.2	199.9	195.8	187.7	195.8	210.1	187.7	179.5
65°	3435.1	2631.4	273.3	175.4	169.3	165.2	161.1	173.4	181.5	146.9	138.7
67.5°	807.8	656.8	177.5	148.9	140.7	132.6	136.7	138.7	132.6	100.0	95.9
70°	210.1	206.0	138.7	124.4	112.2	104.0	104.0	102.0	87.7	63.2	59.2
72.5°	114.2	112.2	100.0	93.8	77.5	69.4	71.4	63.2	49.0	36.7	34.7
75°	57.1	61.2	57.1	53.0	42.8	38.8	38.8	34.7	24.5	14.3	14.3
77.5°	12.2	14.3	14.3	12.2	10.2	8.2	8.2	10.2	4.1	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

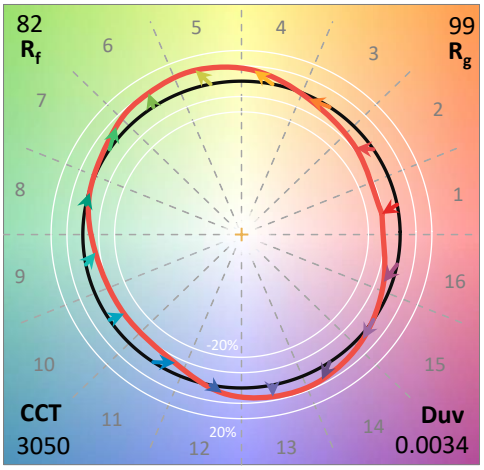
Test Information

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

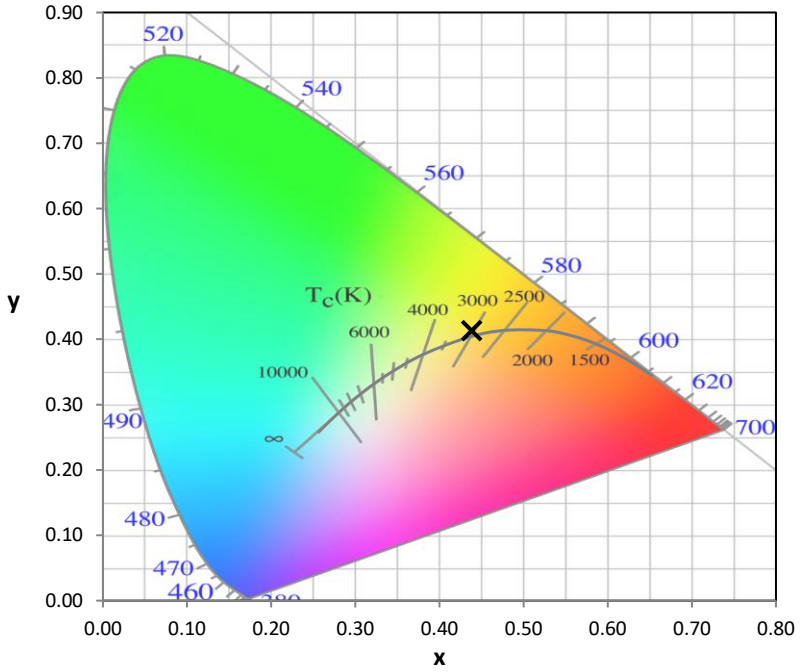
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

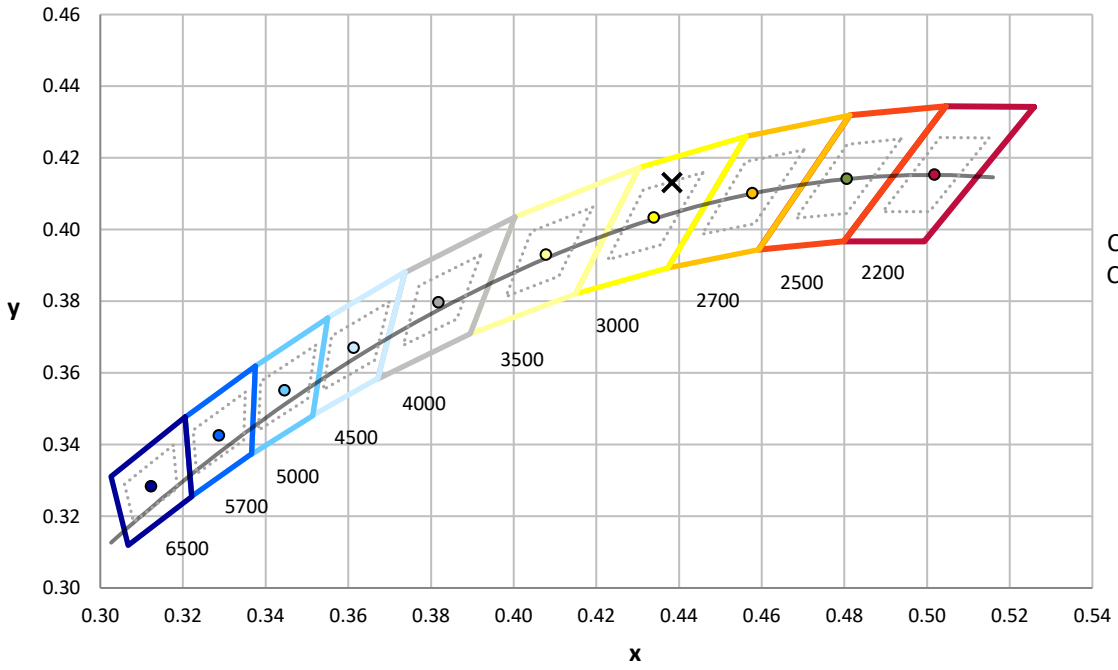
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

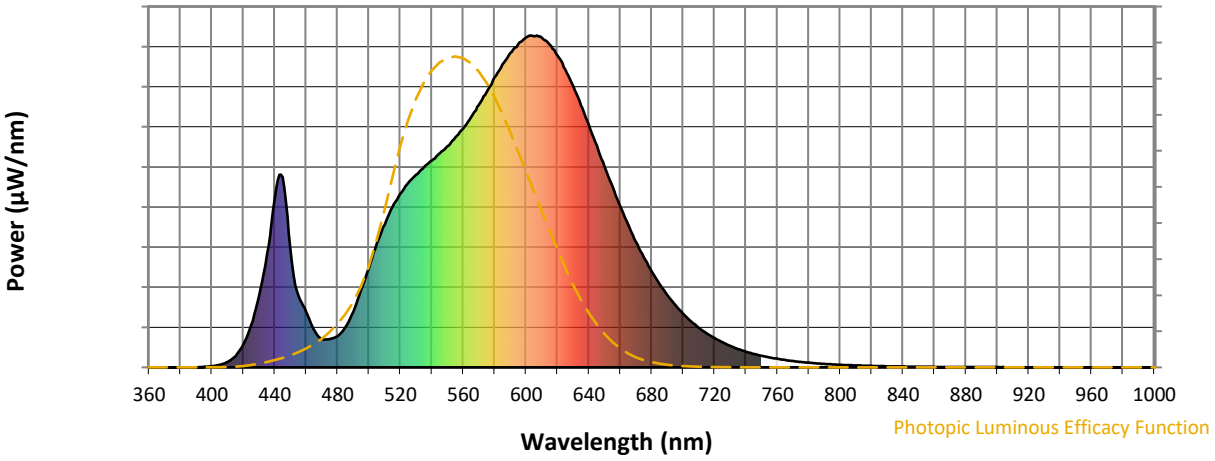


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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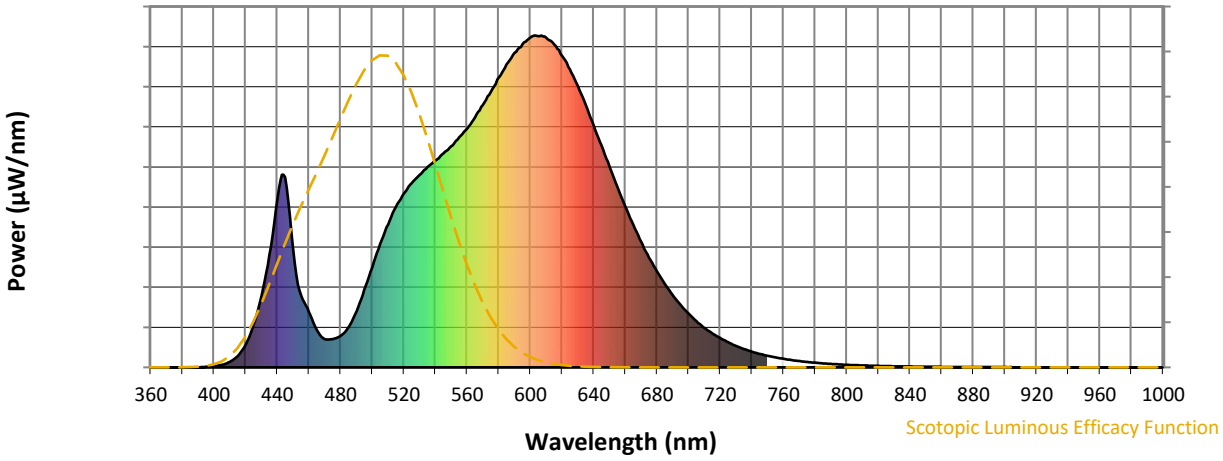
Scotopic Flux vs. Wavelength



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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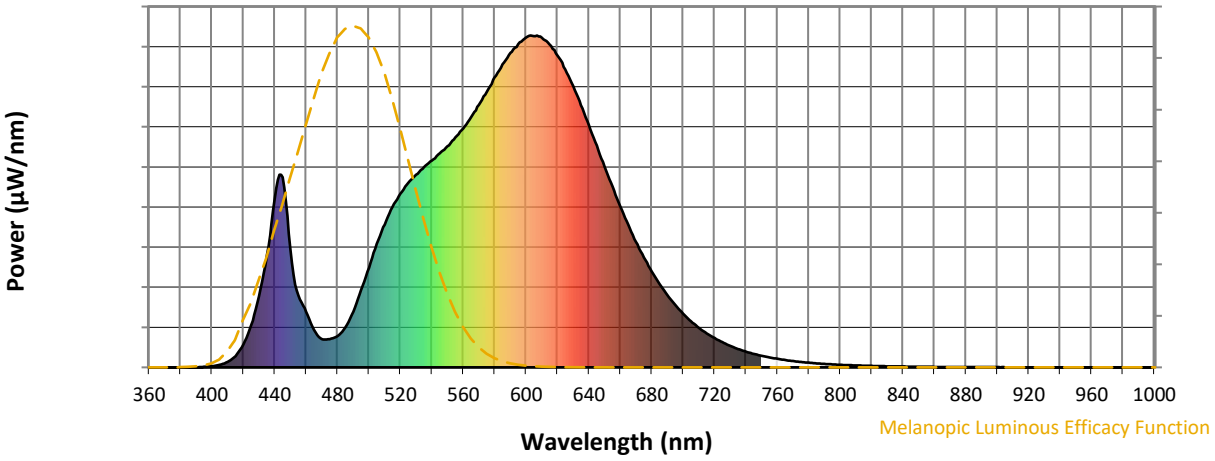
Melanopic Flux vs. Wavelength



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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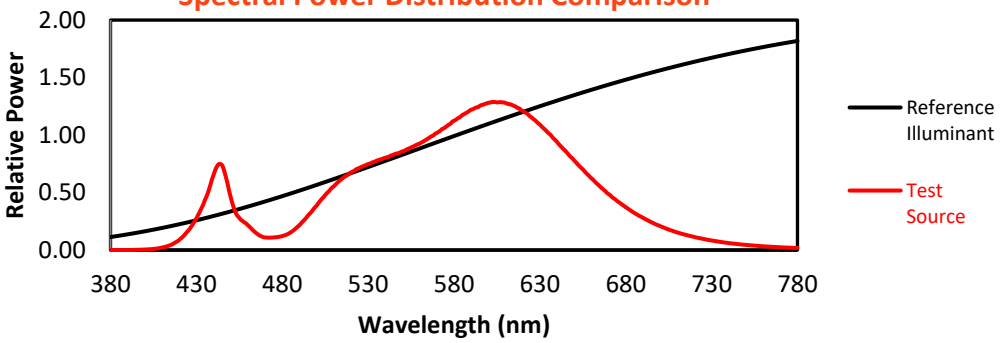
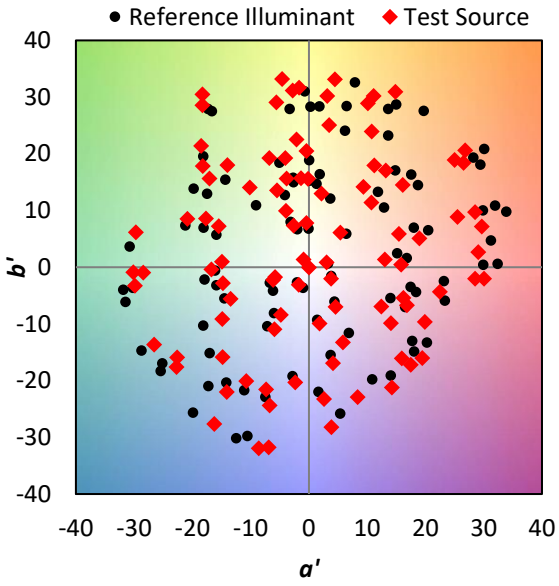
Summary

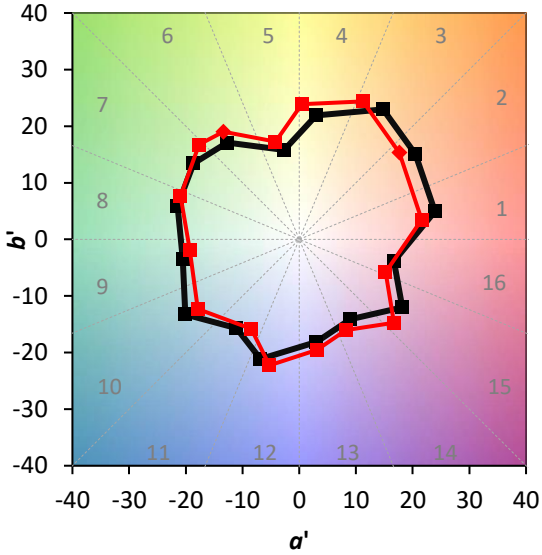
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

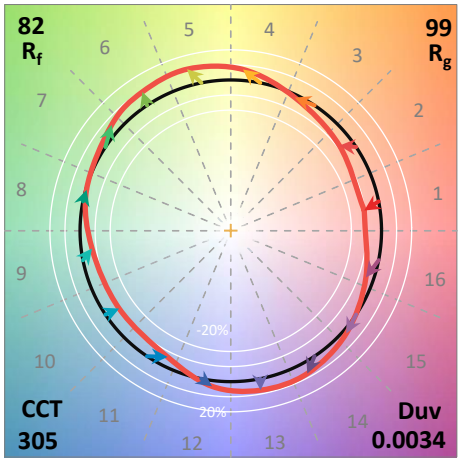
Spectral Power Distribution Comparison

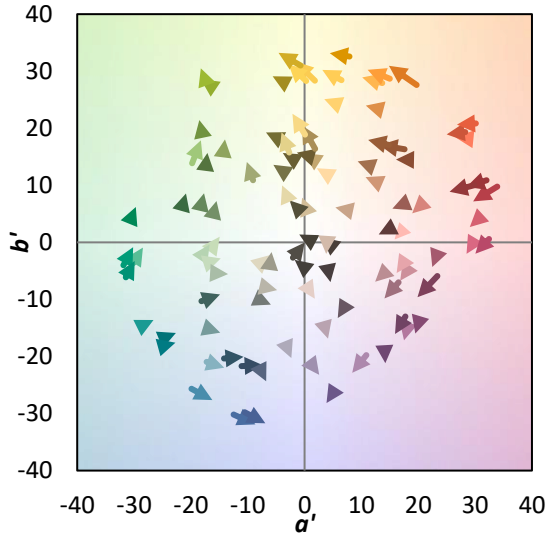


Color Vector Graphics









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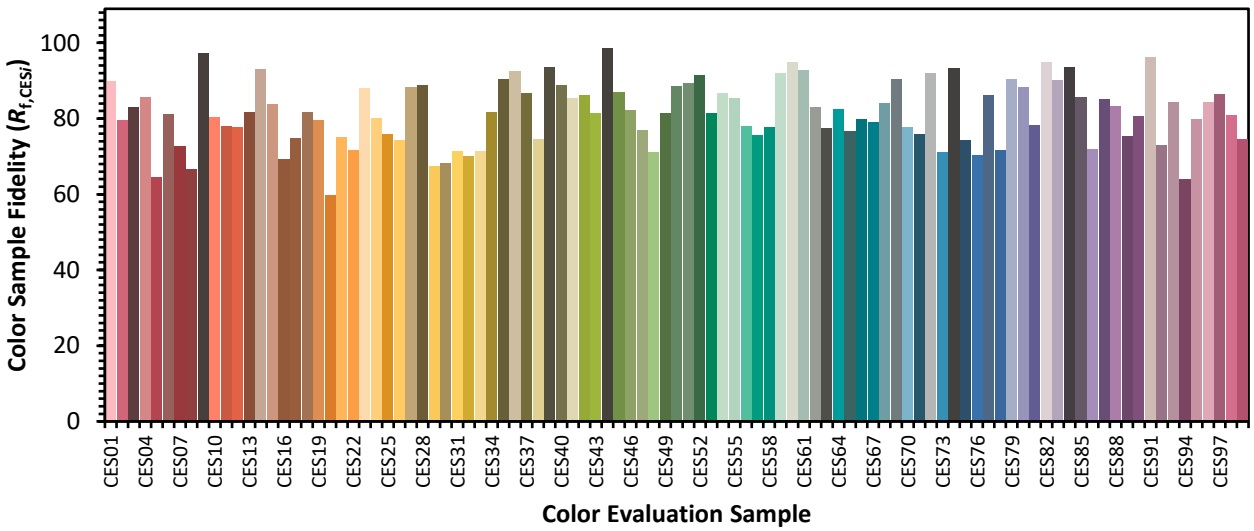
Individual Sample Fidelity Index ($R_{f,i}$)

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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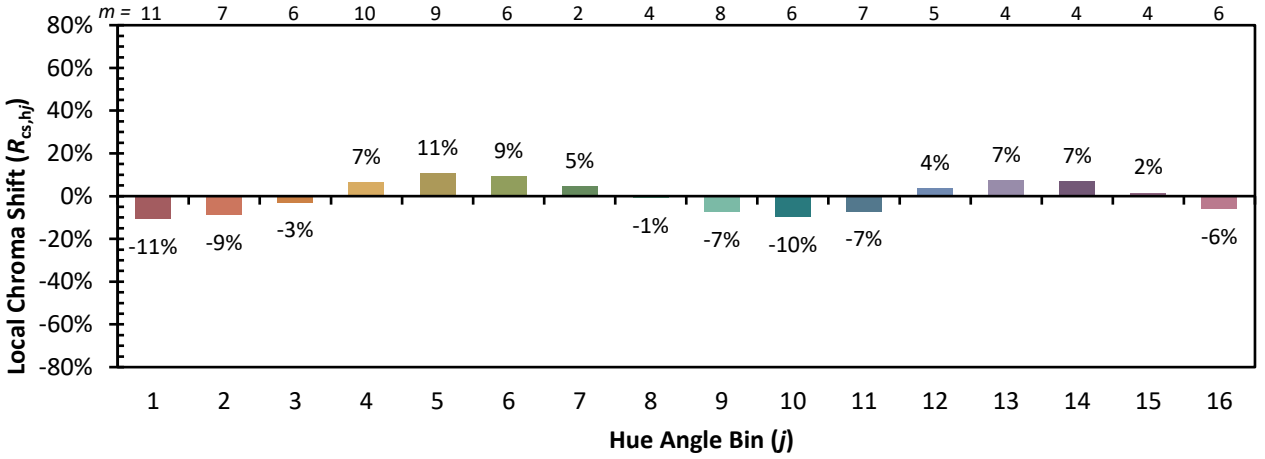
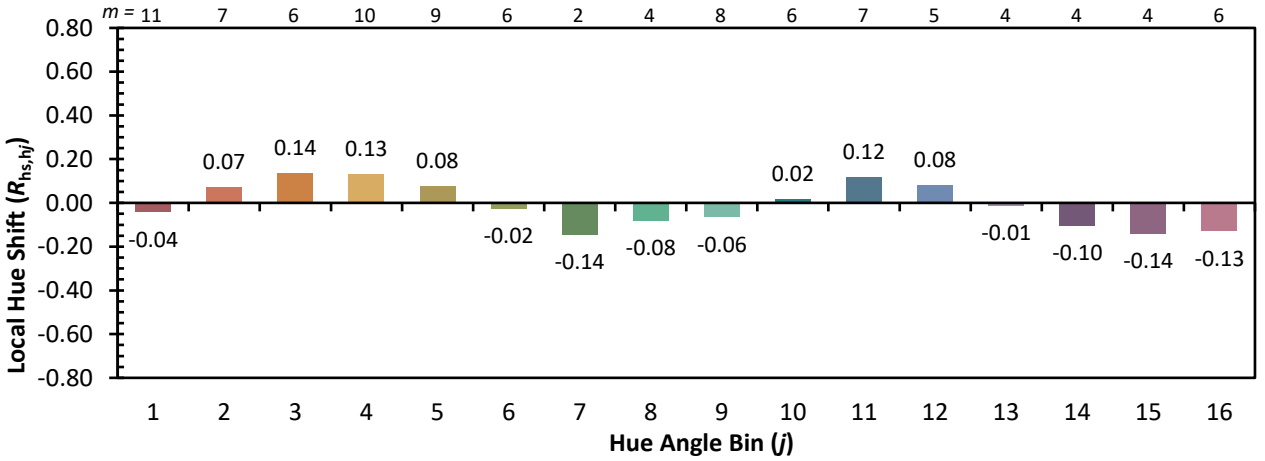
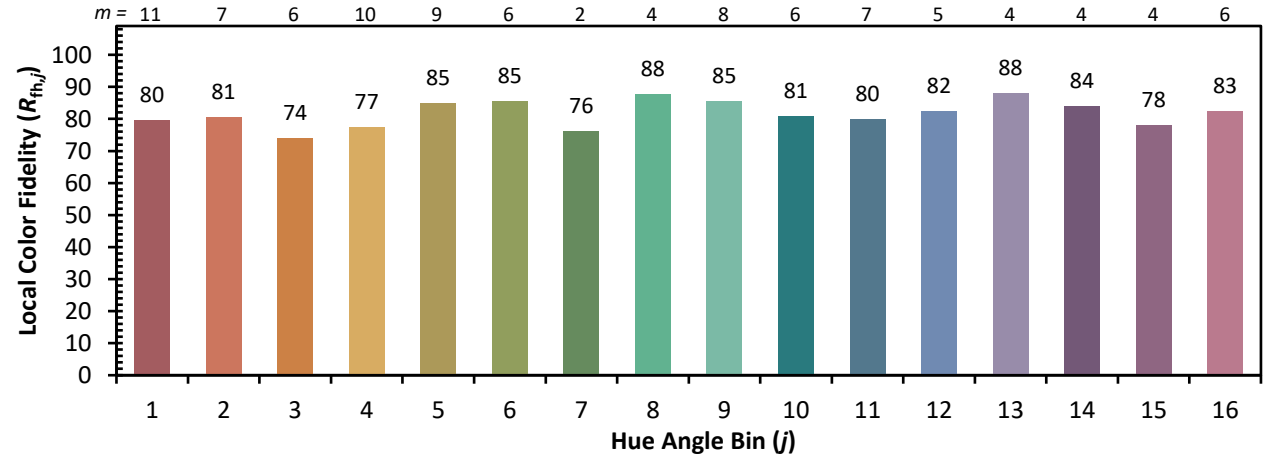
Color Rendition by Hue-Angle Bin







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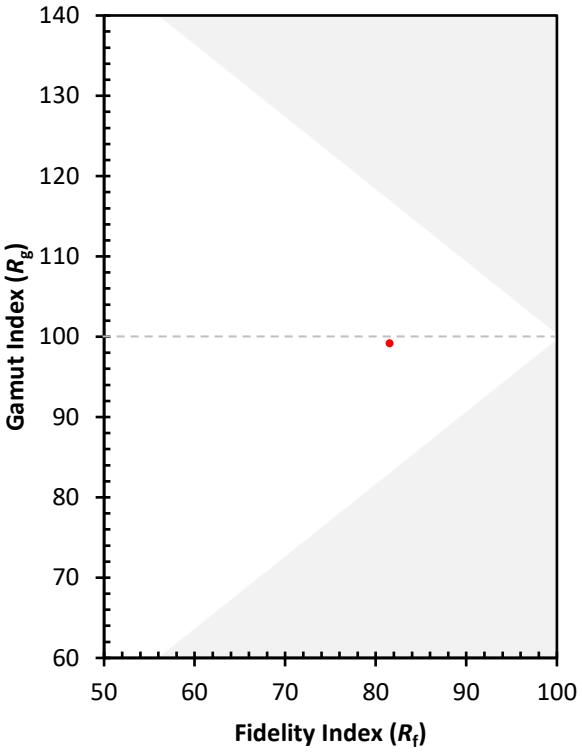
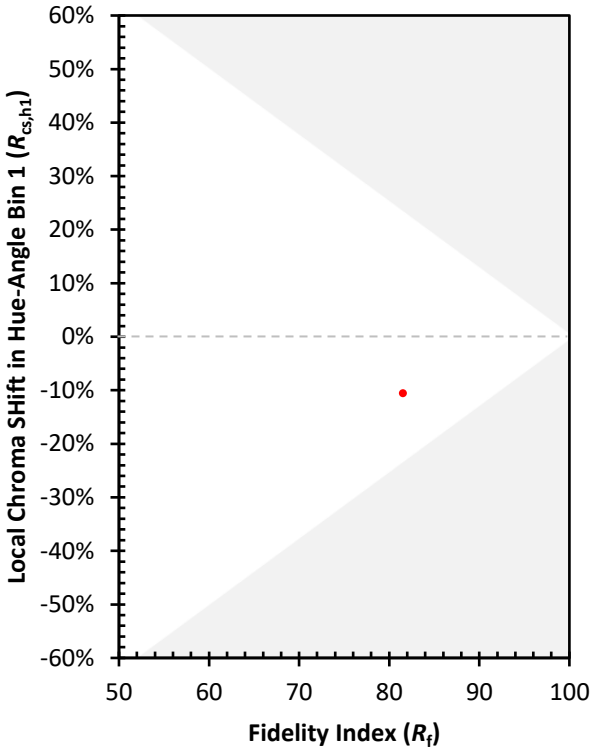
Measure Comparisons





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