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: P641445

Luminaire Tested: GWS-SA5F-830-U-SL3-W-HSS

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:	P641445
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5F-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26854.1 lumens
Efficiency:	N/A
Efficacy:	86.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	310.3
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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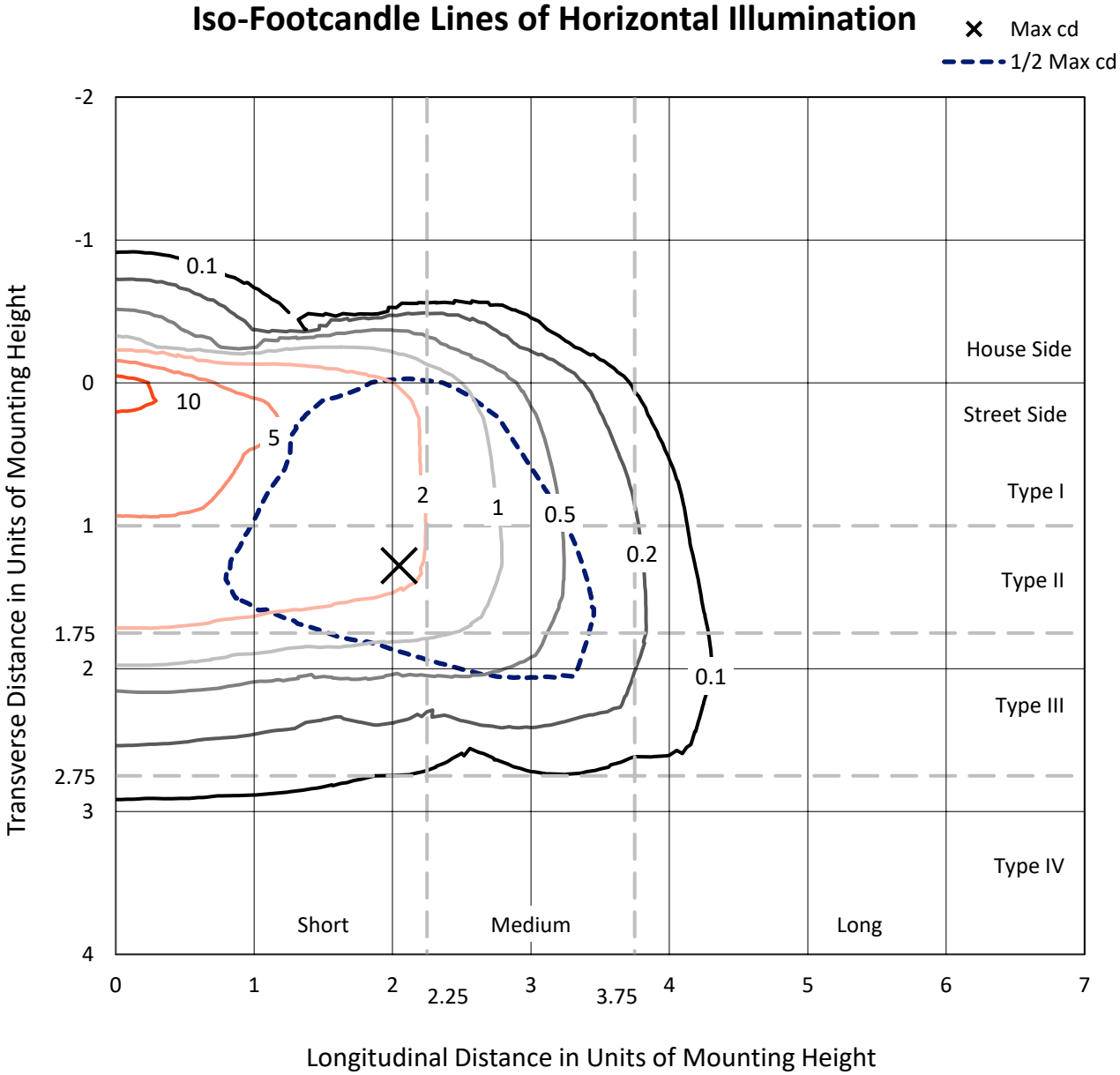
Scaled Data Report

REPORT NUMBER: P641445
CATALOG NUMBER: GWS-SA5F-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type III - Short - N/A

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REPORT NUMBER: P641445
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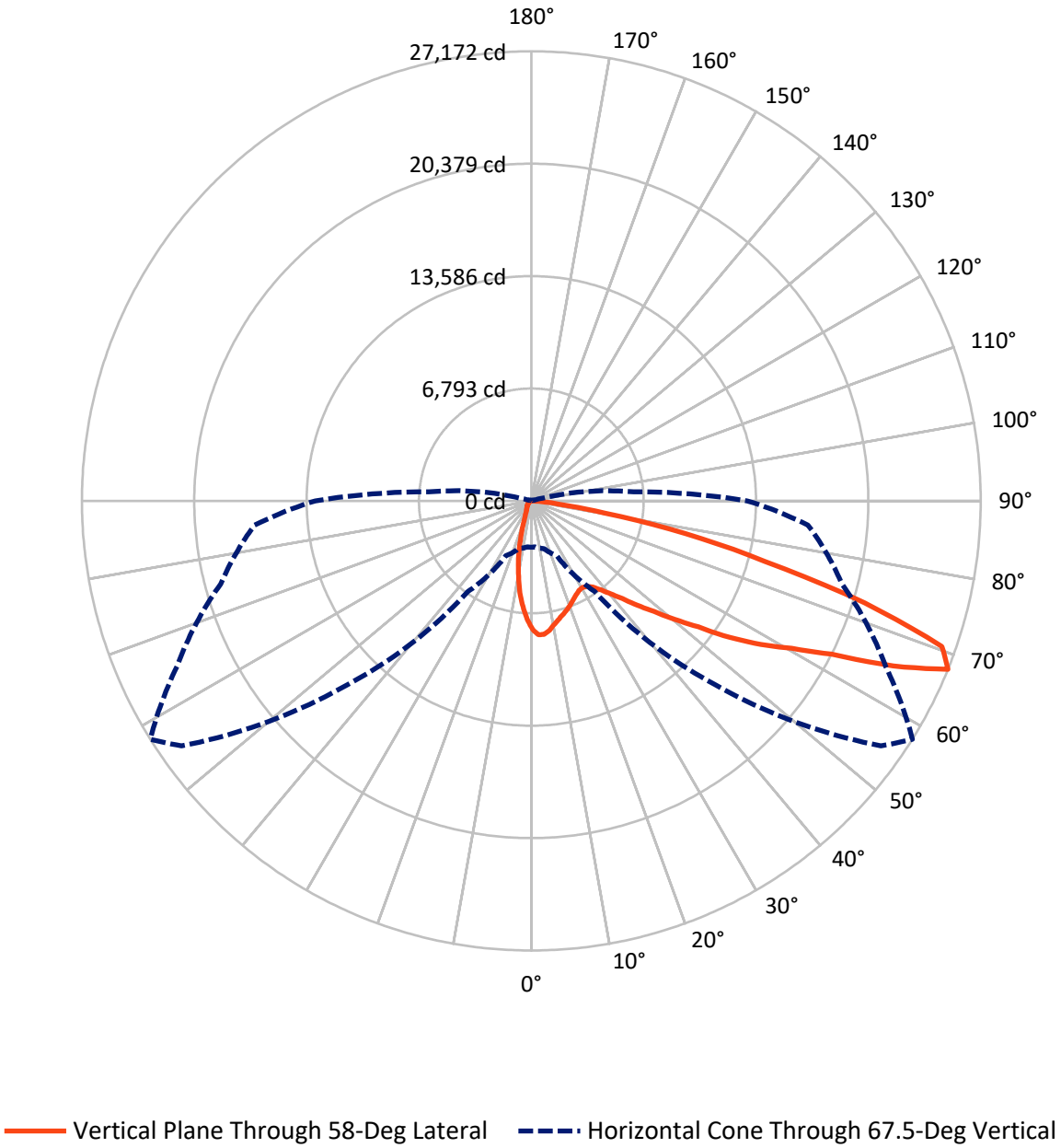
Luminous Intensity Polar Plot



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REPORT NUMBER: P641445
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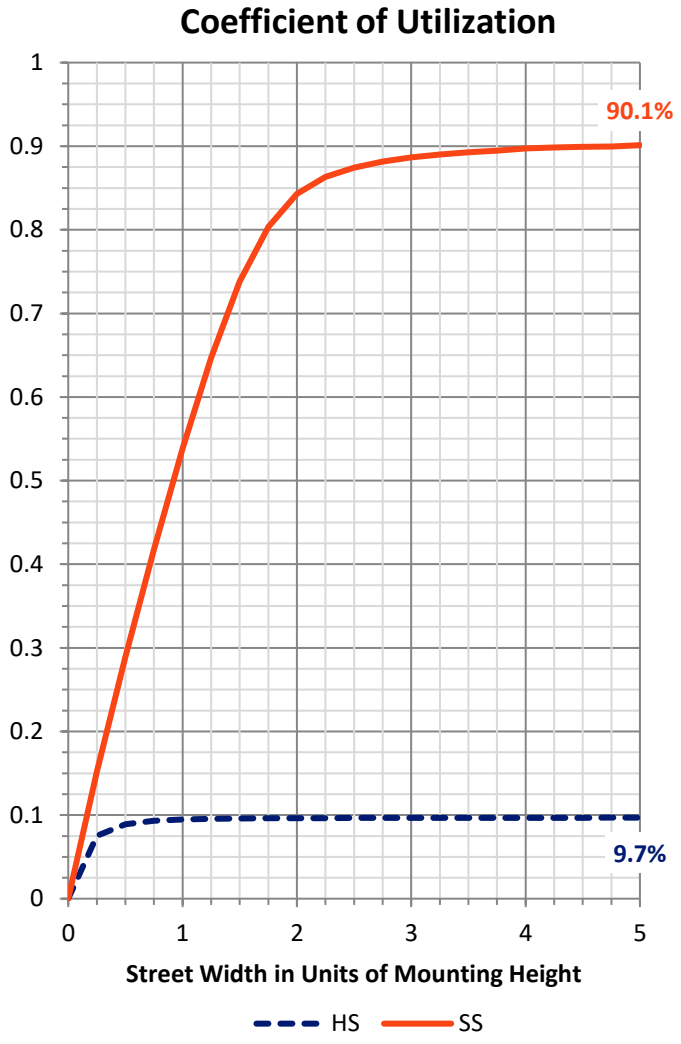
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2623.5	0.0	2623.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	24230.6	0.0	24230.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	26854.1	0.0	26854.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.4	2.3
10°-20°	1310.3	4.9
20°-30°	1767.0	6.6
30°-40°	2483.0	9.2
40°-50°	3834.7	14.3
50°-60°	6132.2	22.8
60°-70°	7261.0	27.0
70°-80°	3212.1	12.0
80°-90°	224.5	0.8
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°	26854.1	100.0
0°-180°	26854.1	100.0



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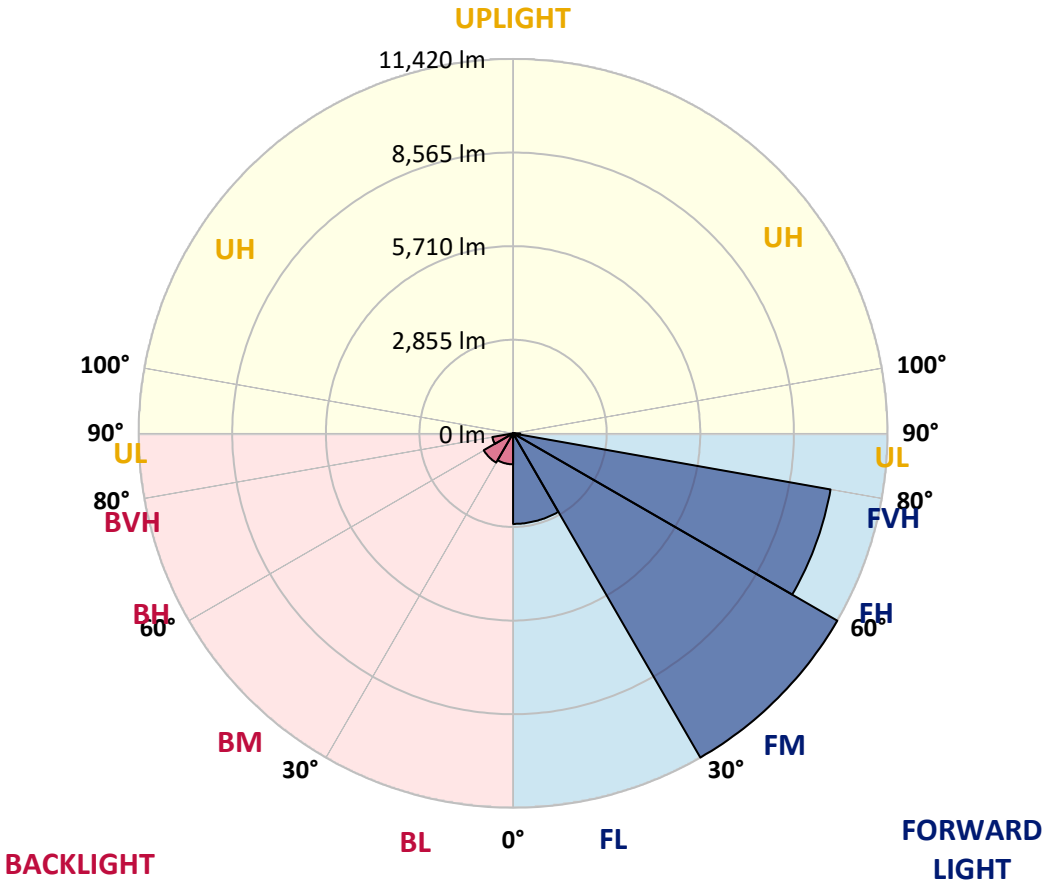
REPORT NUMBER: P641445
CATALOG NUMBER: GWS-SA5F-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2762.6	10.3			
FM	(30°-60°)	11420.5	42.5			
FH	(60°-80°)	9832.5	36.6			G4/12000
FVH	(80°-90°)	215.0	0.8			G2/225
BL	(0°-30°)	944.1	3.5	B2/1000		
BM	(30°-60°)	1029.4	3.8	B2/2500		
BH	(60°-80°)	640.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	9.6	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 Short



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Scaled Data Report

REPORT NUMBER: P641445
CATALOG NUMBER: GWS-SA5F-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	*7746.0*	7746.0	7746.0	7746.0
2.5°	8147.7	8161.9	8180.9	8204.7	8200.0	8178.6	8152.4	*8093.0*	8055.0	7936.1	7791.1
5°	7886.2	7883.8	7931.4	7976.5	8057.3	8100.1	8159.5	*8104.9*	8085.9	7943.3	7708.0
7.5°	7375.2	7401.3	7456.0	7527.3	7643.8	7769.8	7912.4	*7895.7*	7952.8	7857.7	7565.3
10°	6873.7	6859.4	6945.0	7052.0	7230.2	7391.8	7598.6	*7596.2*	7746.0	7736.5	7403.7
12.5°	6434.0	6431.6	6498.2	6619.4	6828.5	7054.3	7334.8	*7341.9*	7527.3	7603.4	7265.9
15°	6063.2	6068.0	6132.1	6258.1	6474.4	6750.1	7075.7	*7135.1*	7344.3	7498.8	7130.4
17.5°	5799.4	5801.8	5839.8	5949.1	6160.7	6455.4	6847.6	*6928.4*	7196.9	7420.4	7021.1
20°	5678.2	5668.7	5675.8	5730.5	5894.5	6163.0	6614.6	*6719.2*	7061.5	7365.7	6921.2
22.5°	5694.8	5680.5	5647.3	5640.1	5713.8	5918.2	6367.4	*6495.8*	6914.1	7332.4	6830.9
25°	5842.2	5811.3	5763.7	5692.4	5663.9	5766.1	6151.2	*6284.3*	6776.2	7334.8	6762.0
27.5°	6068.0	6034.7	5975.3	5880.2	5768.5	5725.7	6003.8	*6129.8*	6678.8	7389.5	6728.7
30°	6355.6	6329.4	6272.4	6158.3	6008.5	5832.7	5972.9	*6077.5*	6631.3	7501.2	6743.0
32.5°	6695.4	6676.4	6628.9	6524.3	6353.2	6084.6	6077.5	*6158.3*	6669.3	7662.8	6797.6
35°	7023.4	7030.6	7032.9	6975.9	6792.9	6467.3	6365.1	*6393.6*	6826.2	7905.2	6921.2
37.5°	7377.6	7360.9	7446.5	7486.9	7311.0	6964.0	6809.5	*6811.9*	7125.6	8264.1	7154.2
40°	7646.2	7650.9	7836.3	8002.7	7929.0	7593.9	7372.8	*7370.4*	7586.7	8756.1	7529.7
42.5°	7898.1	7929.0	8202.3	8487.5	8589.7	8292.6	8133.4	*8074.0*	8233.2	9421.6	8093.0
45°	8166.7	8211.8	8594.5	9000.9	9269.5	9093.6	8967.7	*8991.4*	9010.4	10196.5	8851.2
47.5°	8480.4	8508.9	8981.9	9554.7	10056.2	10011.1	10018.2	*9989.7*	9980.2	11173.3	9854.2
50°	8860.7	8927.3	9471.5	10156.1	10840.6	11140.0	11239.9	*11251.8*	11097.3	12238.1	10892.9
52.5°	9668.8	9749.6	10215.5	10814.4	11696.2	12326.1	12732.5	*12651.7*	12414.0	13269.7	12031.3
55°	10621.9	10683.7	11132.9	11753.3	12742.0	13626.2	14591.2	*14557.9*	13975.6	14355.9	12967.8
57.5°	10712.2	10781.2	11477.6	12428.3	14084.9	15232.9	16247.8	*16354.7*	15501.5	15125.9	13804.4
60°	9697.3	9837.6	10788.3	12067.0	14598.3	17393.4	18063.7	*18085.1*	16620.9	15907.9	14826.5
62.5°	7772.1	7838.7	8796.5	10465.0	13806.8	18653.1	20837.4	*20385.8*	18058.9	17117.7	16445.1
65°	4073.8	4344.8	5179.0	7025.8	11197.1	18213.4	24174.4	*24050.8*	20644.9	18850.4	17704.8
67.5°	*2795.1*	*2792.7*	*2990.0*	*3662.6*	*6676.4*	*15682.1*	*25812.0*	*27171.5*	*23634.9*	*19444.6*	*16792.1*
70°	2127.2	2134.4	2310.2	2747.6	3458.2	10438.9	24015.2	*26339.7*	24191.0	17654.9	13581.0
72.5°	1411.8	1426.1	1718.4	2219.9	2761.8	5117.2	18662.6	*21075.1*	20354.9	14180.0	9559.5
75°	843.8	855.6	1064.8	1613.8	2455.2	2864.0	11857.8	*14569.8*	14011.2	9773.4	5124.4
77.5°	347.0	356.5	546.7	1005.4	1796.9	2224.7	6557.6	*9533.3*	8392.5	3886.1	1399.9
80°	145.0	149.7	263.8	703.5	1295.4	1395.2	3037.5	*4480.3*	3439.2	836.6	427.8
82.5°	52.3	54.7	97.4	387.4	805.7	1050.5	1533.0	*1770.7*	969.7	273.3	230.5
85°	2.4	2.4	23.8	130.7	306.6	297.1	877.0	*848.5*	320.9	114.1	137.9
87.5°	0.0	0.0	2.4	2.4	4.8	11.9	83.2	*147.4*	68.9	28.5	59.4
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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Scaled Data Report

REPORT NUMBER: P641445
CATALOG NUMBER: GWS-SA5F-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0	7746.0
2.5°	7696.1	7570.1	7432.2	7303.9	7099.5	6978.3	6828.5	6762.0	6666.9	6643.1	6657.4
5°	7539.2	7322.9	6992.5	6693.1	6305.6	5994.3	5680.5	5547.4	5376.3	5262.2	5214.7
7.5°	7318.2	7035.3	6519.6	5975.3	5442.9	4874.8	4442.2	4157.0	3897.9	3755.3	3726.8
10°	7094.7	6726.3	5987.2	5207.6	4382.8	3703.1	3118.4	2685.8	2334.0	2174.8	2051.2
12.5°	6864.2	6405.5	5445.2	4428.0	3470.1	2543.2	1820.6	1399.9	1148.0	1048.2	1064.8
15°	6652.7	6096.5	4908.1	3648.4	2443.3	1535.4	1005.4	848.5	789.1	770.1	767.7
17.5°	6450.6	5804.1	4373.3	2890.2	1611.5	941.2	770.1	732.1	715.4	705.9	705.9
20°	6267.6	5523.7	3850.4	2177.1	1041.0	746.3	696.4	677.4	663.1	656.0	656.0
22.5°	6096.5	5252.7	3339.4	1540.2	767.7	670.3	639.4	620.3	603.7	594.2	594.2
25°	5942.0	5007.9	2852.2	1060.1	660.7	613.2	579.9	558.5	530.0	513.4	513.4
27.5°	5830.3	4789.2	2383.9	772.5	596.6	551.4	513.4	484.9	454.0	435.0	430.2
30°	5763.7	4603.9	1910.9	634.6	537.2	492.0	449.2	413.6	377.9	358.9	356.5
32.5°	5725.7	4432.7	1478.4	553.8	487.2	435.0	387.4	349.4	313.7	292.3	290.0
35°	5740.0	4299.6	1107.6	499.1	439.7	385.0	332.8	294.7	263.8	244.8	240.1
37.5°	5863.6	4240.2	831.9	456.3	399.3	342.3	287.6	251.9	223.4	209.2	206.8
40°	6103.6	4252.1	653.6	423.1	366.0	299.5	247.2	213.9	192.5	180.6	178.3
42.5°	6476.8	4351.9	539.5	394.5	330.4	261.4	213.9	187.8	166.4	154.5	152.1
45°	7032.9	4558.7	470.6	361.3	292.3	225.8	185.4	161.6	142.6	128.3	126.0
47.5°	7838.7	4917.6	425.4	330.4	259.1	194.9	159.2	135.5	118.8	107.0	104.6
50°	8696.7	5347.8	387.4	299.5	230.5	168.8	135.5	111.7	97.4	85.6	83.2
52.5°	9611.8	5811.3	358.9	271.0	204.4	145.0	114.1	92.7	78.4	66.6	64.2
55°	10491.2	6277.1	325.6	251.9	173.5	123.6	95.1	76.1	61.8	52.3	52.3
57.5°	11346.8	6704.9	290.0	221.0	142.6	104.6	78.4	61.8	49.9	42.8	40.4
60°	12368.9	7296.8	249.6	187.8	118.8	87.9	64.2	49.9	40.4	33.3	33.3
62.5°	13887.6	7912.4	213.9	156.9	99.8	73.7	52.3	40.4	33.3	28.5	26.1
65°	14384.4	7579.6	180.6	128.3	80.8	59.4	42.8	35.7	28.5	26.1	23.8
67.5°	*13058.1*	*6212.9*	*149.7*	*104.6*	*66.6*	*49.9*	*38.0*	*30.9*	*26.1*	*23.8*	*21.4*
70°	10189.3	4409.0	116.5	78.4	54.7	40.4	33.3	28.5	23.8	21.4	21.4
72.5°	6930.7	2607.3	92.7	59.4	45.2	35.7	28.5	26.1	23.8	21.4	19.0
75°	3413.1	927.0	71.3	45.2	35.7	30.9	26.1	23.8	21.4	19.0	19.0
77.5°	919.8	256.7	54.7	35.7	28.5	23.8	23.8	23.8	21.4	16.6	16.6
80°	311.4	107.0	40.4	26.1	23.8	19.0	16.6	21.4	19.0	16.6	14.3
82.5°	171.1	52.3	28.5	21.4	16.6	14.3	14.3	14.3	14.3	11.9	11.9
85°	109.3	28.5	19.0	16.6	16.6	11.9	9.5	9.5	7.1	7.1	7.1
87.5°	49.9	16.6	16.6	14.3	14.3	11.9	7.1	4.8	2.4	2.4	2.4
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

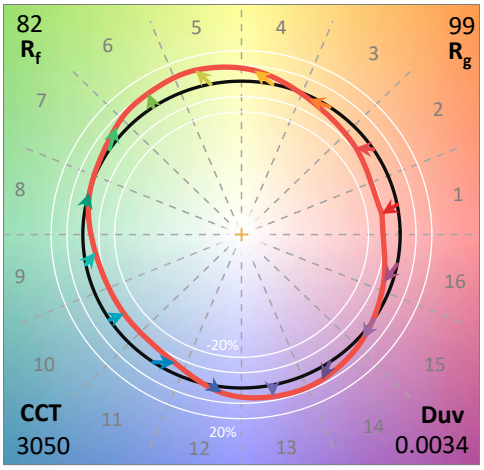
Test Information

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

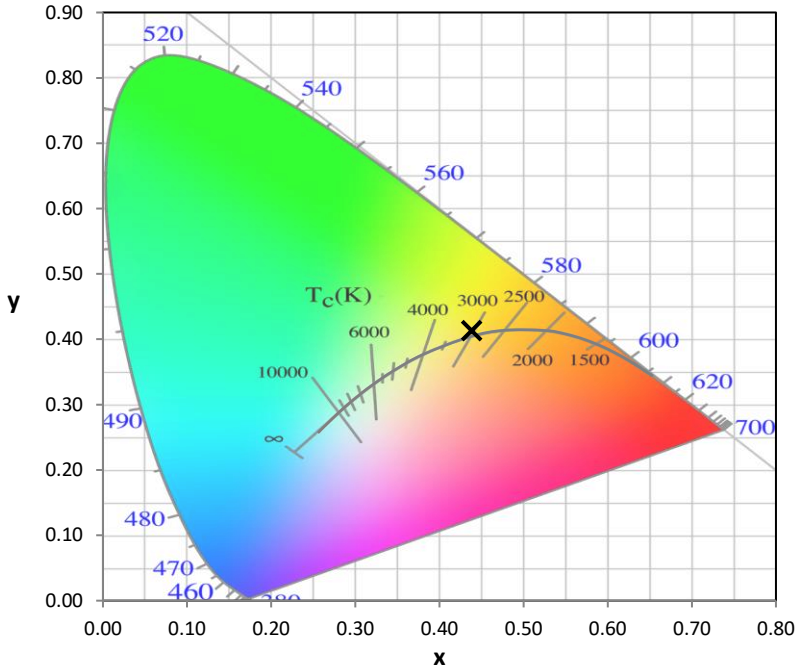
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

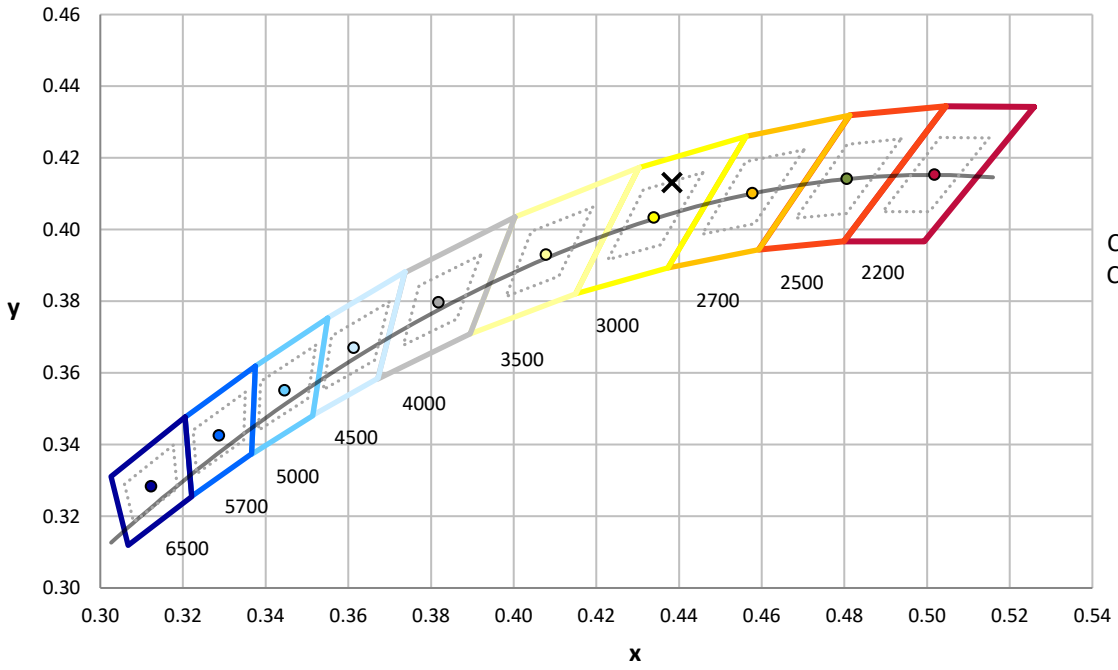
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

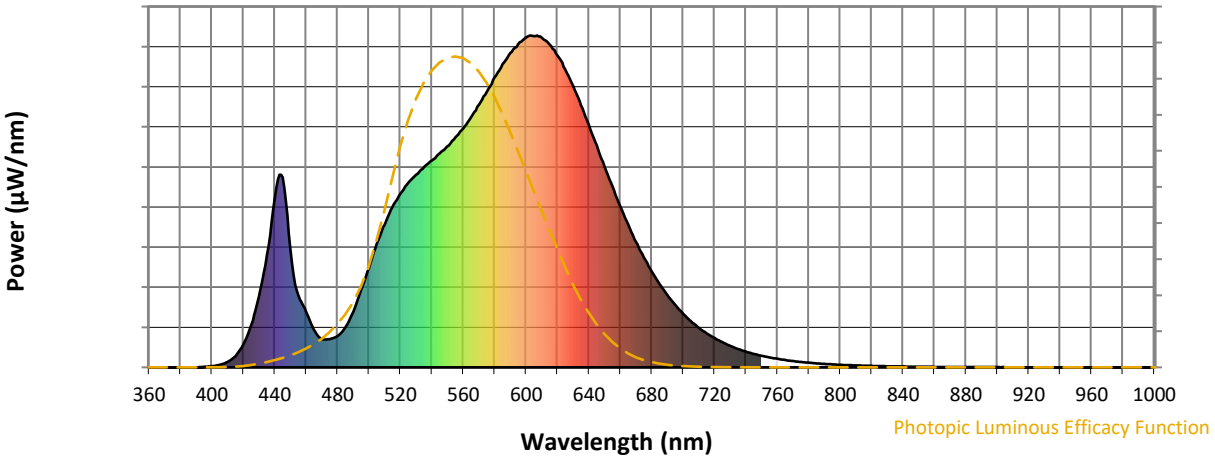


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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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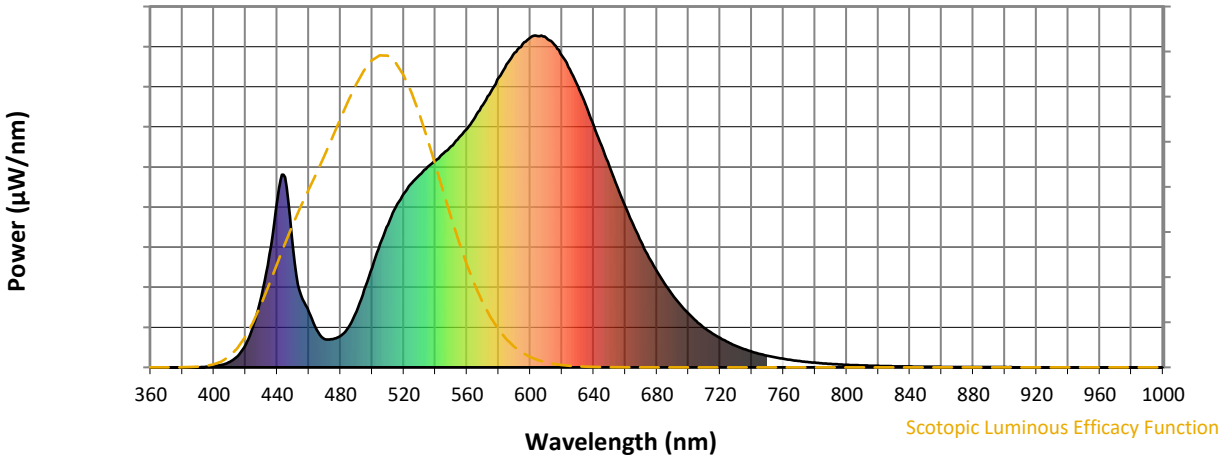
Scotopic Flux vs. Wavelength



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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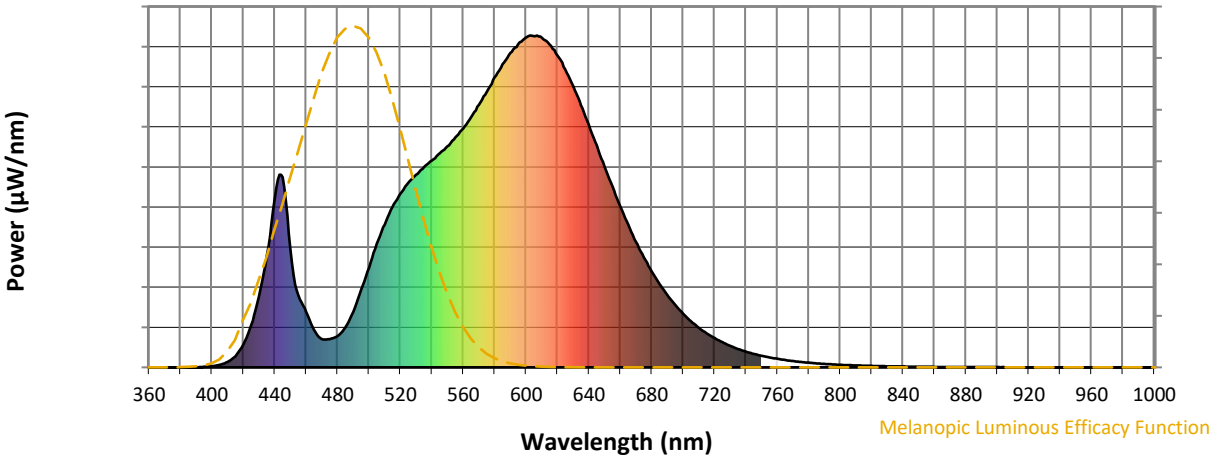
Melanopic Flux vs. Wavelength



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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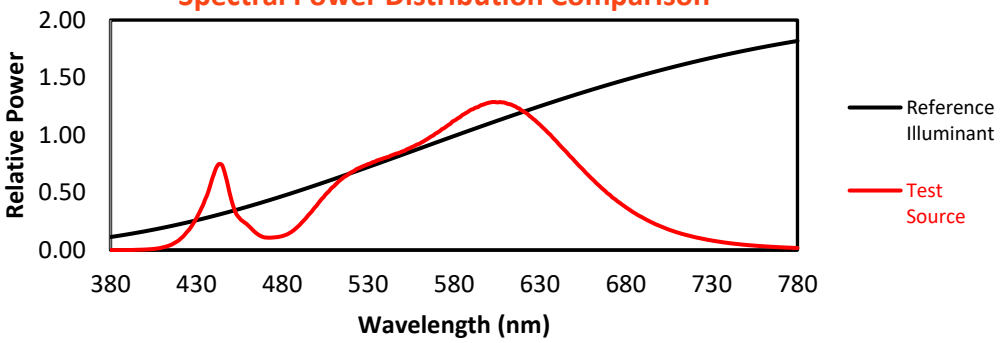
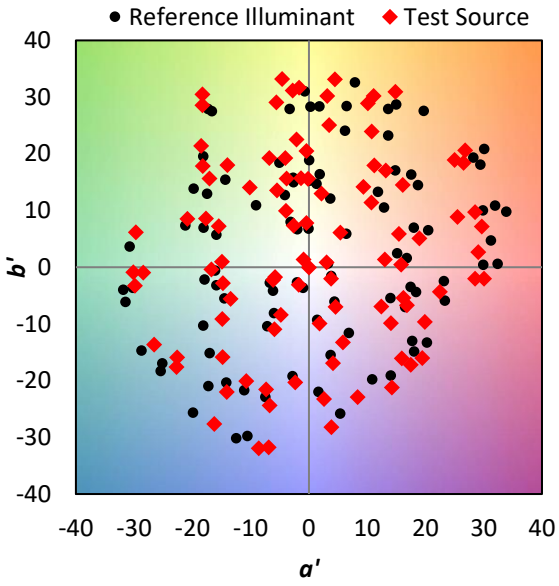
Summary

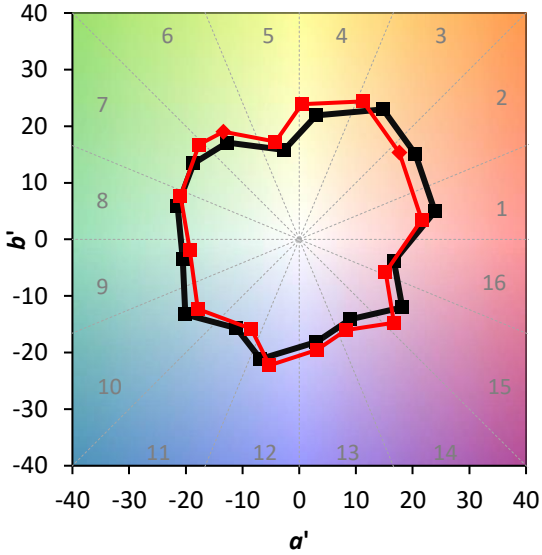
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

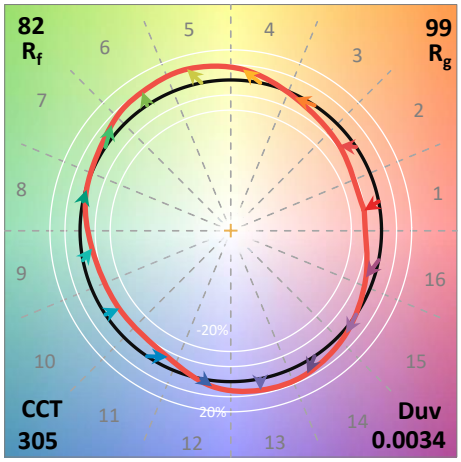
Spectral Power Distribution Comparison

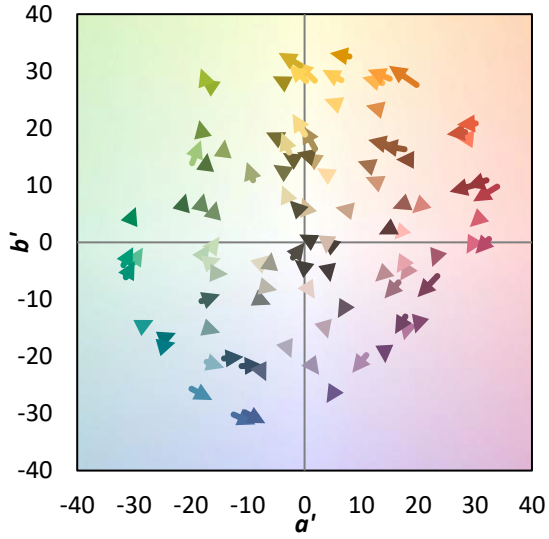


Color Vector Graphics









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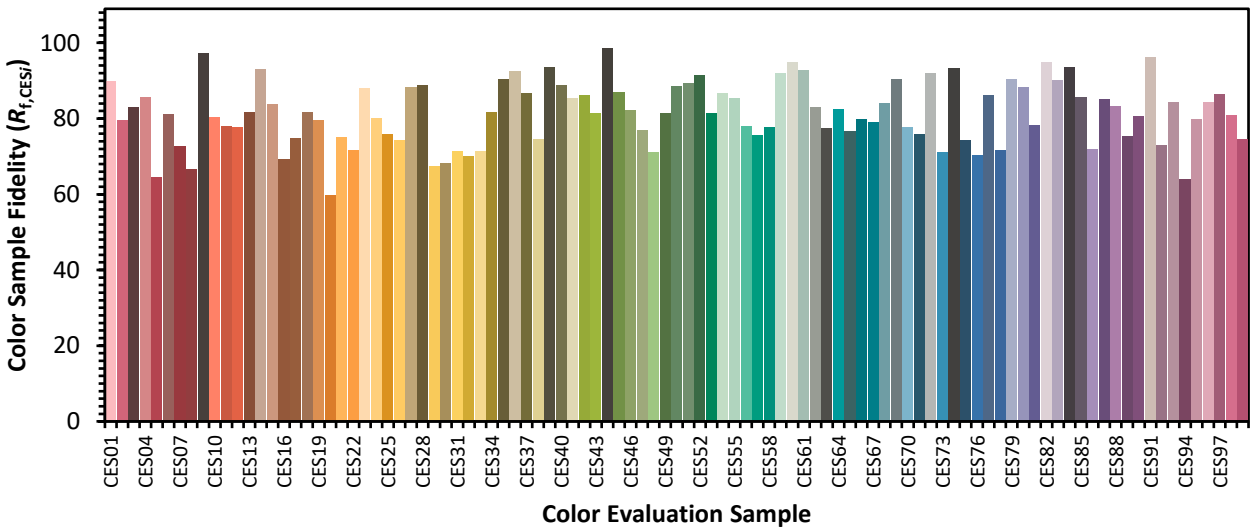
Individual Sample Fidelity Index ($R_{f,i}$)

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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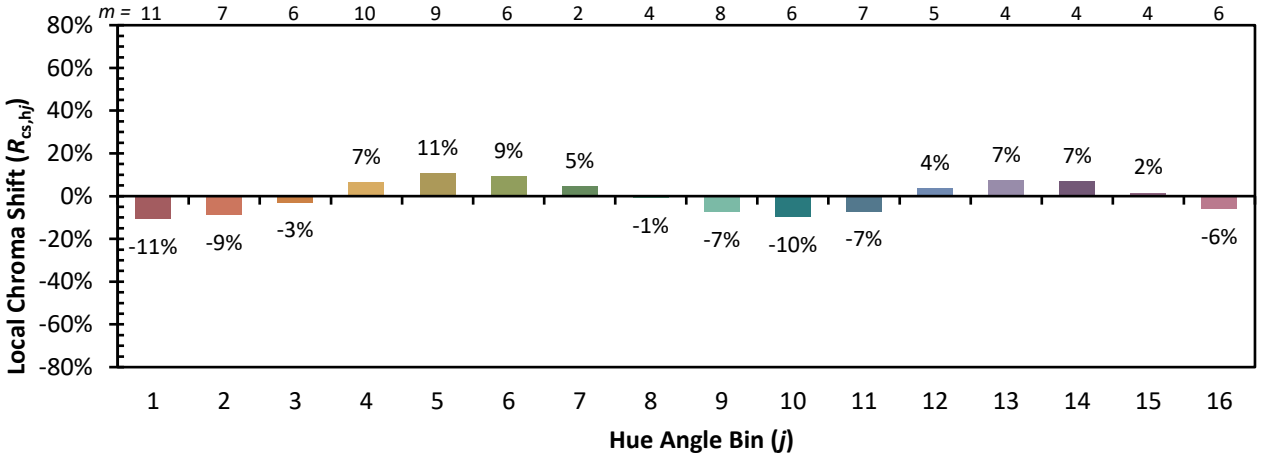
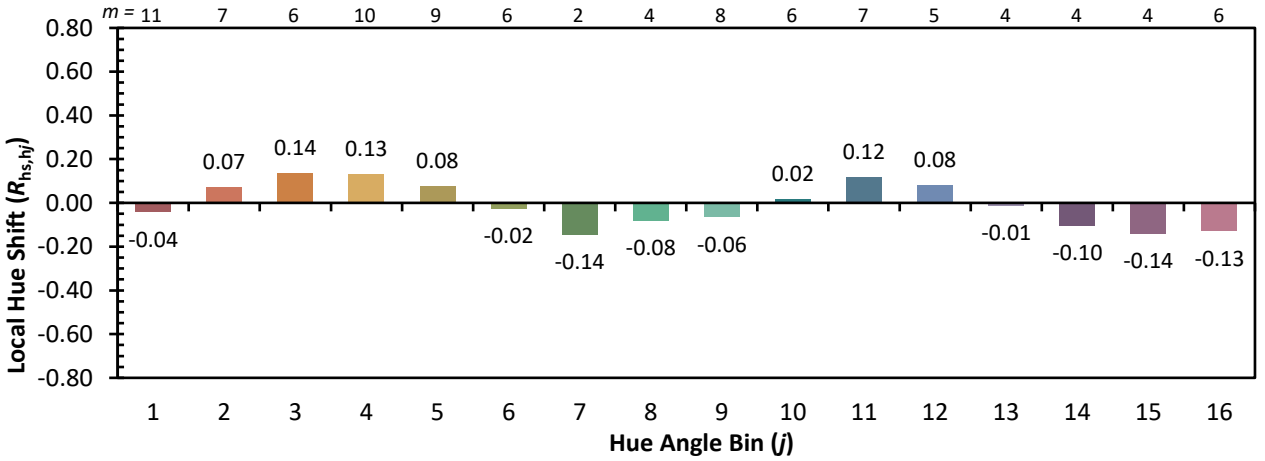
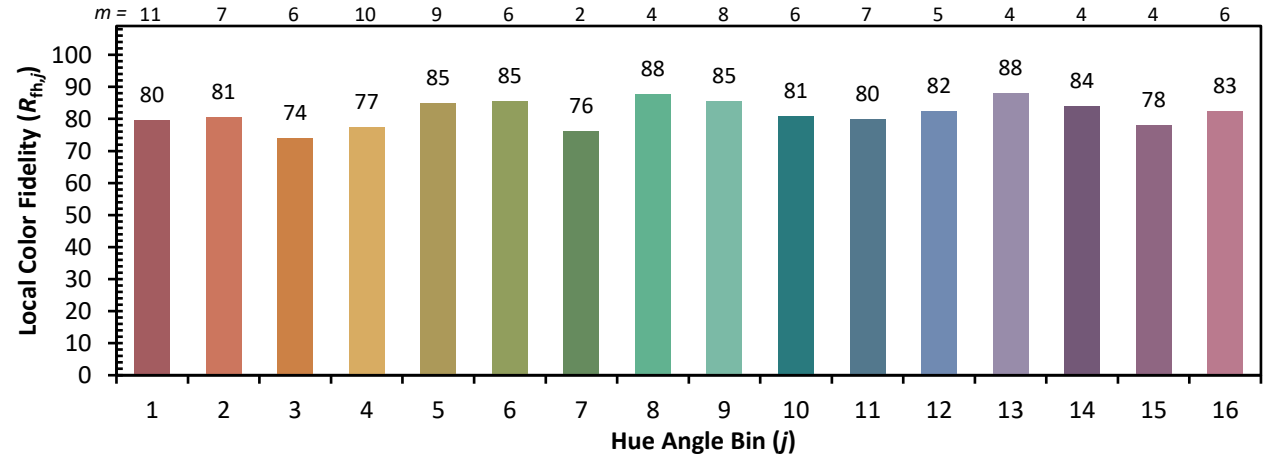
Color Rendition by Hue-Angle Bin







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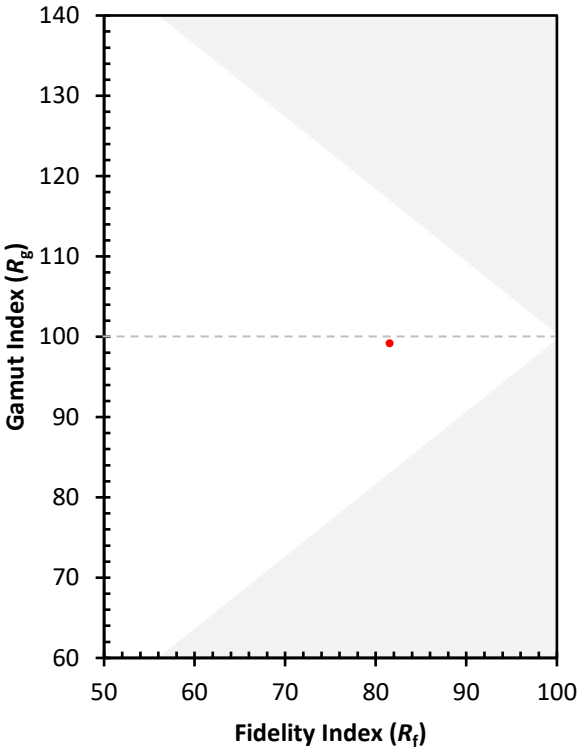
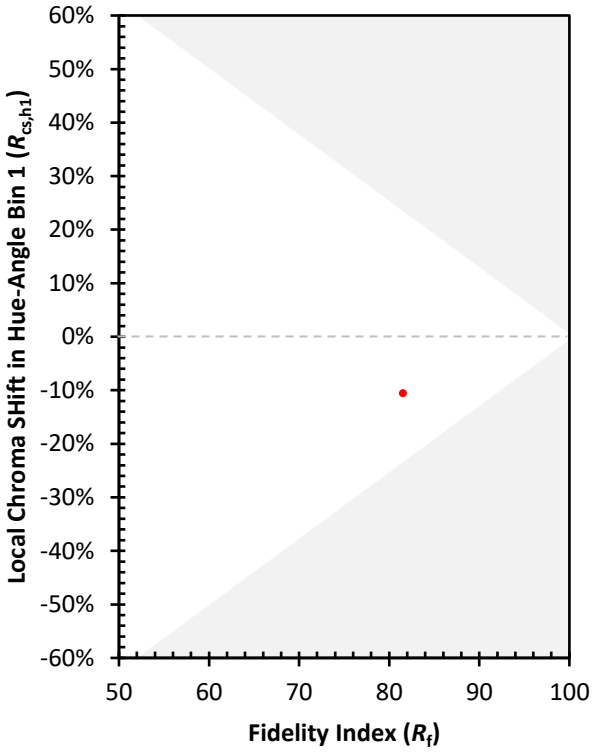
Measure Comparisons





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