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: P638487

Luminaire Tested: GWS-SA4E-830-U-T1-W

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:	P638487
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4E-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24265.9 lumens
Efficiency:	N/A
Efficacy:	119.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B4 - U0 - G4

Input Watts (W):	202.6
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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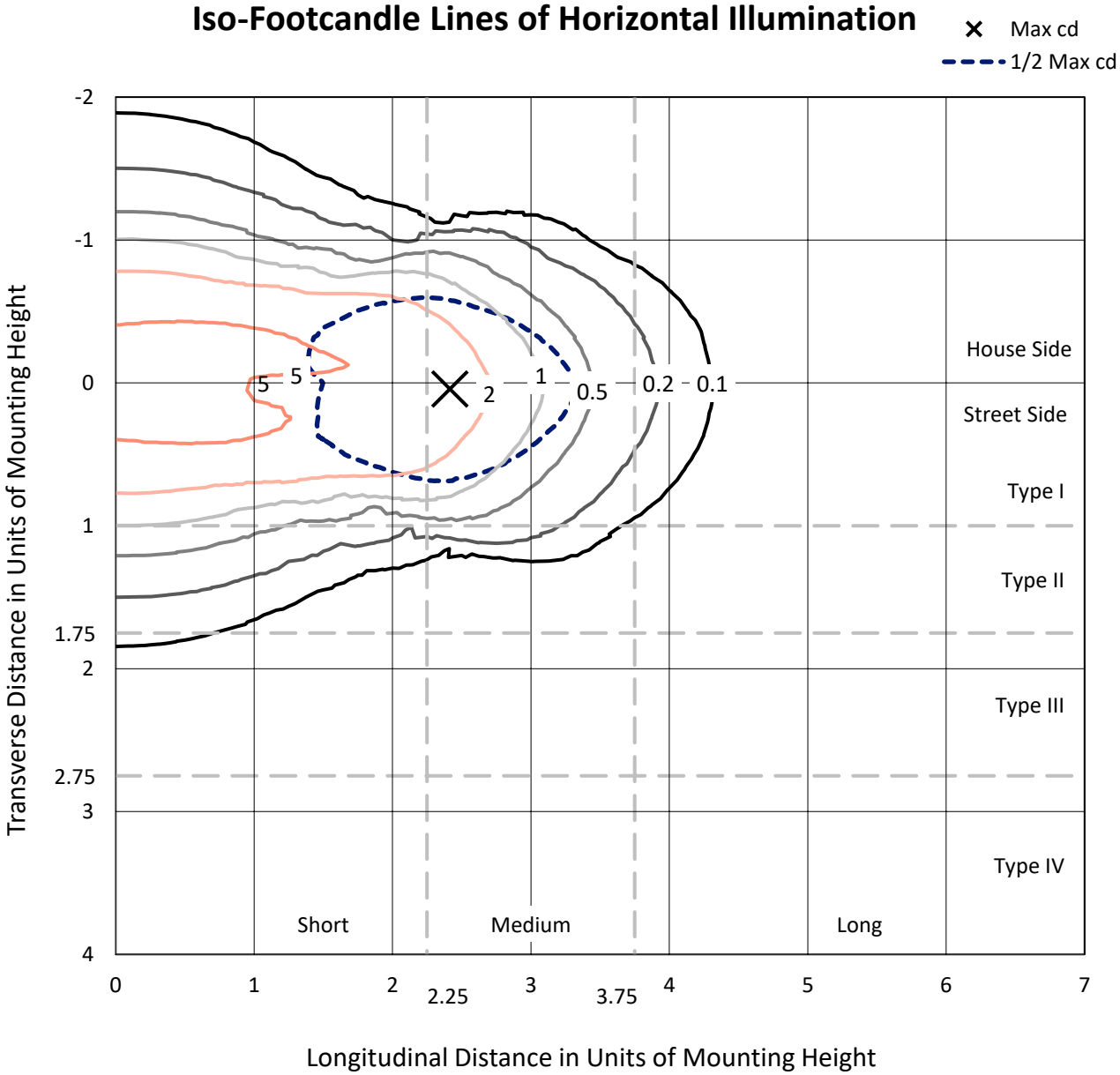
Scaled Data Report

REPORT NUMBER: P638487
CATALOG NUMBER: GWS-SA4E-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type I - Medium - N/A

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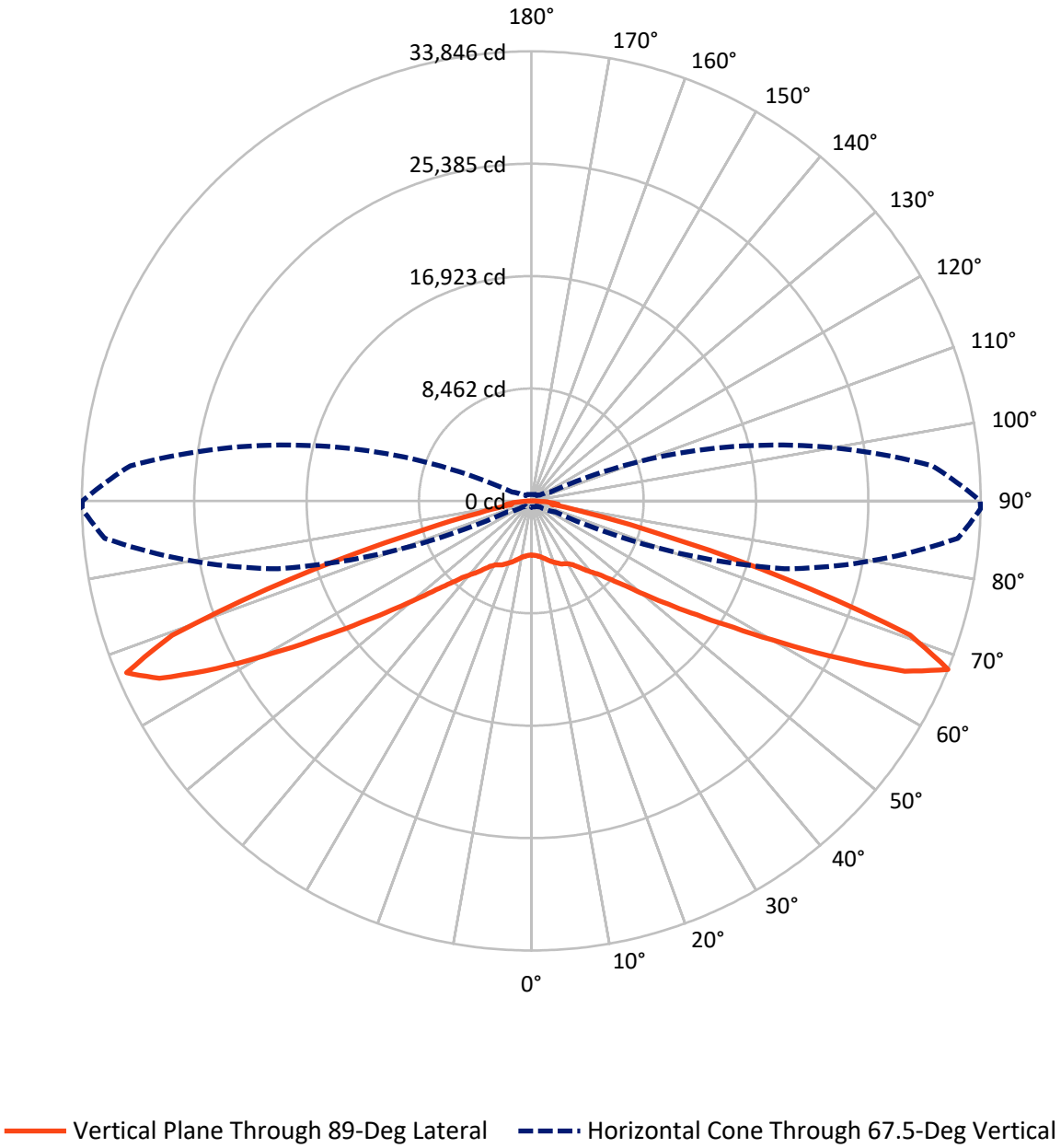
Luminous Intensity Polar Plot



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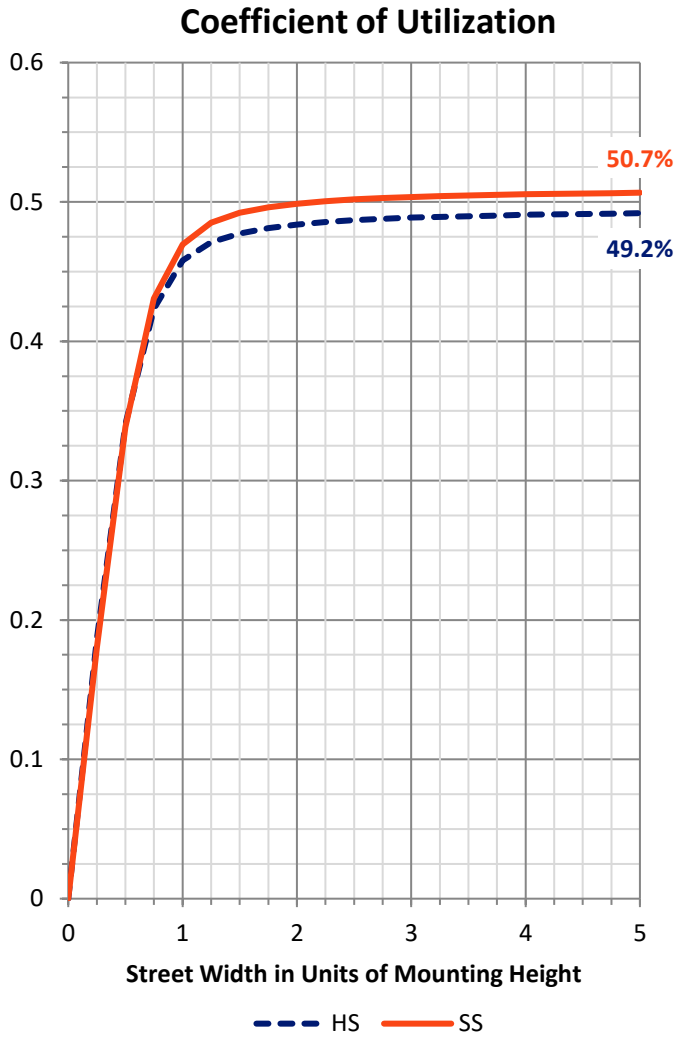
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12026.6	0.0	12026.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12239.3	0.0	12239.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	24265.9	0.0	24265.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	1.7
10°-20°	1330.3	5.5
20°-30°	2248.7	9.3
30°-40°	3086.1	12.7
40°-50°	3935.5	16.2
50°-60°	4937.6	20.3
60°-70°	5955.2	24.5
70°-80°	2154.4	8.9
80°-90°	209.5	0.9
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°	24265.9	100.0
0°-180°	24265.9	100.0



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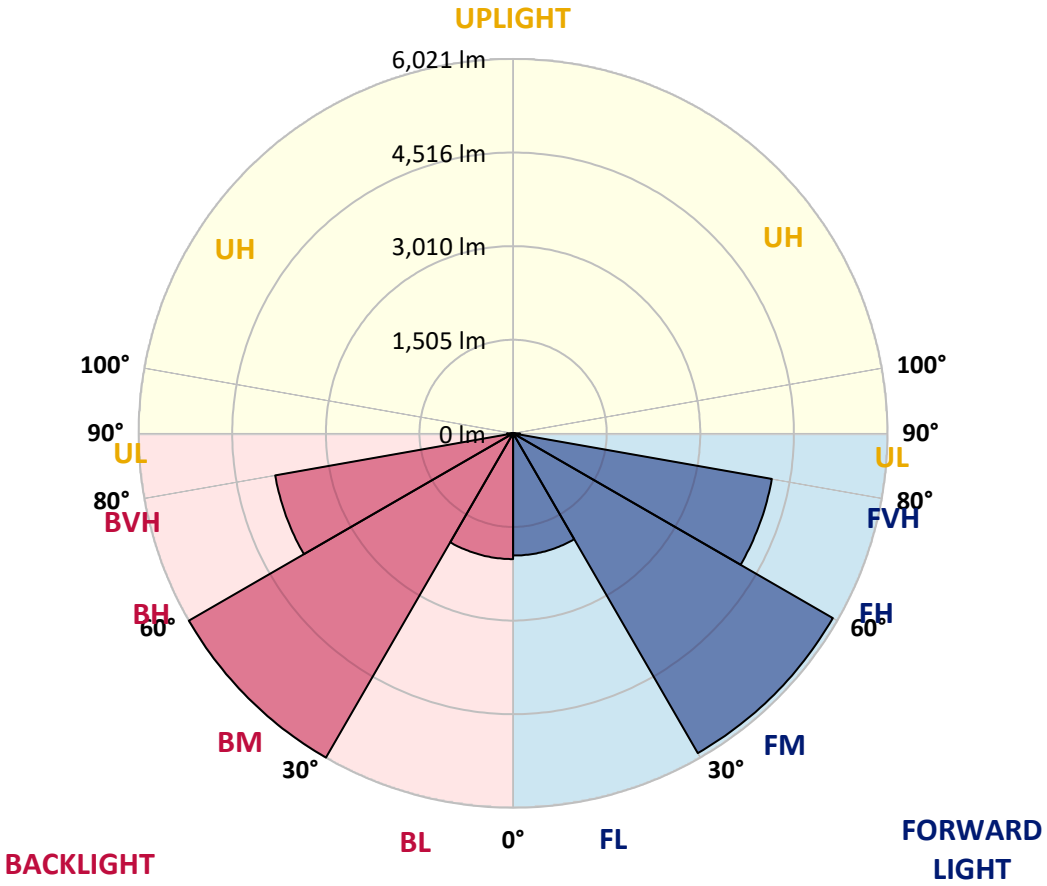
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1965.4	8.1			
FM	(30°-60°)	5938.3	24.5			
FH	(60°-80°)	4225.0	17.4			G2/5000
FVH	(80°-90°)	110.5	0.5			G2/225
BL	(0°-30°)	2022.2	8.3	B3/2500		
BM	(30°-60°)	6020.9	24.8	B4/8500		
BH	(60°-80°)	3884.6	16.0	B4/5000		G4/5000
BVH	(80°-90°)	99.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type I Medium



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Scaled Data Report

REPORT NUMBER: P638487
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	*4072.8*
2.5°	4085.0	4081.5	4072.8	4099.0	4093.7	4095.5	4105.9	4099.0	4086.8	4065.9	*4095.5*
5°	4200.1	4198.3	4179.1	4194.8	4177.4	4165.2	4163.5	4146.0	4132.1	4109.4	*4140.8*
7.5°	4311.6	4309.9	4294.2	4322.1	4308.1	4294.2	4278.5	4243.6	4210.5	4177.4	*4212.3*
10°	4397.0	4395.2	4391.8	4431.8	4435.3	4440.6	4433.6	4374.3	4316.8	4276.7	*4311.6*
12.5°	4445.8	4451.0	4459.7	4532.9	4569.5	4604.4	4613.1	4564.3	4468.4	4410.9	*4452.8*
15°	4412.7	4423.1	4466.7	4599.2	4700.2	4778.7	4811.8	4771.7	4647.9	4552.1	*4599.2*
17.5°	4254.1	4262.8	4348.2	4550.4	4773.4	4954.7	5008.7	4984.3	4846.6	4729.9	*4775.2*
20°	4034.5	4053.7	4146.0	4428.4	4761.2	5076.7	5221.3	5212.6	5062.7	4883.2	*4937.2*
22.5°	3835.8	3858.5	3956.1	4268.0	4679.3	5108.0	5435.7	5458.3	5259.7	5036.6	*5080.2*
25°	3612.7	3633.7	3759.1	4078.1	4538.2	5083.6	5618.7	5721.5	5482.7	5212.6	*5252.7*
27.5°	3384.4	3400.1	3523.9	3863.7	4353.4	5038.3	5763.3	6010.8	5702.3	5334.6	*5362.5*
30°	3184.0	3204.9	3318.2	3649.3	4151.3	4947.7	5881.8	6319.3	5955.0	5472.3	*5494.9*
32.5°	2990.6	3008.0	3131.7	3438.5	3936.9	4808.3	5988.1	6681.8	6329.7	5728.5	*5728.5*
35°	2746.6	2778.0	2917.4	3236.3	3734.7	4623.5	6064.8	7103.5	6842.1	6106.6	*6108.4*
37.5°	2521.8	2539.2	2685.6	3008.0	3522.1	4414.4	6071.8	7540.9	7490.4	6587.6	*6591.1*
40°	2265.6	2288.2	2445.1	2764.0	3278.1	4194.8	6005.6	7948.7	8170.1	7082.6	*7063.4*
42.5°	2005.9	2039.0	2188.9	2500.9	3015.0	3926.4	5829.5	8337.4	9032.7	7656.0	*7608.9*
45°	1755.0	1775.9	1925.8	2220.3	2713.5	3605.8	5547.2	8710.3	10057.5	8527.3	*8459.4*
47.5°	1472.6	1481.3	1636.5	1918.8	2401.5	3248.5	5142.9	9043.2	11183.3	9681.0	*9564.3*
50°	1221.7	1233.9	1355.9	1598.1	2019.9	2825.0	4639.2	9238.4	12617.6	11254.8	*11052.6*
52.5°	988.1	1000.3	1097.9	1291.4	1669.6	2342.3	4015.3	9193.1	14072.8	13208.4	*12913.9*
55°	798.2	806.9	873.1	1024.7	1314.0	1863.0	3278.1	8787.0	15688.3	15759.8	*15125.4*
57.5°	674.4	677.9	723.2	815.6	1026.5	1436.0	2530.5	7828.5	17382.3	19015.3	*17973.1*
60°	603.0	604.7	625.7	683.2	810.4	1096.2	1854.3	6301.8	19137.3	23088.1	*21659.1*
62.5°	557.7	557.7	575.1	608.2	672.7	843.5	1362.8	4526.0	20397.3	27520.0	*26099.6*
65°	514.1	514.1	526.3	554.2	589.1	688.4	1023.0	2919.1	21016.0	31225.1	*30909.6*
67.5°	*458.3*	*460.1*	*468.8*	*498.4*	*529.8*	*575.1*	*775.5*	*1974.5*	*19731.6*	*32249.8*	*33846.2*
70°	406.1	407.8	420.0	439.2	465.3	496.7	606.5	1361.1	14362.1	26859.5	*30263.1*
72.5°	348.6	355.5	364.2	385.2	400.8	423.5	494.9	881.8	8356.5	17277.7	*20005.2*
75°	285.8	294.5	305.0	325.9	336.4	345.1	407.8	629.1	4020.6	8755.6	*9970.3*
77.5°	221.3	230.0	242.2	261.4	268.4	278.8	312.0	454.9	1925.8	3881.1	*4184.4*
80°	148.1	151.6	162.1	184.7	196.9	203.9	230.0	310.2	836.5	1558.0	*1544.1*
82.5°	90.6	92.4	95.9	109.8	115.0	122.0	149.9	190.0	399.1	1770.6	*2030.3*
85°	33.1	31.4	29.6	38.3	45.3	52.3	69.7	95.9	174.3	1216.4	*1361.1*
87.5°	0.0	0.0	0.0	1.7	3.5	3.5	7.0	13.9	41.8	454.9	*312.0*
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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Scaled Data Report

REPORT NUMBER: P638487
CATALOG NUMBER: GWS-SA4E-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8
2.5°	4086.8	4067.6	4092.0	4109.4	4147.8	4161.7	4165.2	4153.0	4153.0	4132.1	4135.6
5°	4133.8	4121.6	4161.7	4191.3	4247.1	4268.0	4282.0	4273.3	4278.5	4264.5	4268.0
7.5°	4205.3	4194.8	4264.5	4322.1	4379.6	4404.0	4416.2	4409.2	4410.9	4393.5	4398.7
10°	4304.6	4308.1	4391.8	4466.7	4543.4	4567.8	4573.0	4552.1	4534.7	4503.3	4505.0
12.5°	4440.6	4458.0	4576.5	4660.1	4738.6	4773.4	4735.1	4658.4	4587.0	4532.9	4526.0
15°	4588.7	4620.1	4790.9	4897.2	4982.6	4965.1	4851.9	4679.3	4538.2	4458.0	4442.3
17.5°	4766.5	4813.5	5027.9	5155.1	5228.3	5116.8	4879.7	4621.8	4424.9	4316.8	4295.9
20°	4933.8	5008.7	5278.8	5444.4	5453.1	5202.1	4867.5	4505.0	4257.6	4125.1	4097.2
22.5°	5087.1	5183.0	5542.0	5752.9	5639.6	5240.5	4792.6	4339.5	4055.4	3900.3	3875.9
25°	5254.4	5390.4	5848.7	6045.6	5826.1	5224.8	4635.7	4133.8	3811.4	3652.8	3635.4
27.5°	5369.5	5540.2	6157.2	6345.4	5979.4	5135.9	4433.6	3909.0	3588.3	3438.5	3414.1
30°	5501.9	5719.7	6497.0	6671.3	6073.5	5005.2	4217.5	3699.9	3381.0	3218.9	3201.5
32.5°	5742.4	6016.0	6918.8	7016.4	6103.2	4843.1	4010.1	3497.7	3164.9	3002.8	2978.4
35°	6129.3	6450.0	7511.3	7401.5	6080.5	4665.4	3813.2	3260.7	2943.5	2791.9	2767.5
37.5°	6617.3	7016.4	8171.8	7748.3	6017.8	4470.2	3579.6	3062.0	2744.9	2591.5	2577.5
40°	7072.1	7563.6	8912.5	8048.1	5890.5	4229.7	3354.8	2854.6	2530.5	2368.4	2337.0
42.5°	7642.0	8295.5	9769.9	8307.7	5681.4	3942.1	3102.1	2598.5	2262.1	2115.7	2077.4
45°	8508.2	9320.3	10766.8	8557.0	5369.5	3588.3	2784.9	2286.5	1967.6	1817.7	1788.1
47.5°	9588.7	10601.2	11847.3	8705.1	4895.4	3215.4	2425.9	1957.1	1638.2	1469.1	1455.2
50°	11106.6	12464.2	13006.2	8679.0	4365.6	2772.7	2021.6	1565.0	1298.4	1176.4	1157.2
52.5°	12955.7	14803.0	14259.3	8365.3	3802.7	2269.1	1575.5	1228.6	1030.0	942.8	927.1
55°	15275.3	17603.6	15578.6	7692.6	3091.7	1737.5	1237.4	969.0	833.0	780.8	773.8
57.5°	18147.4	21230.3	16849.0	6559.8	2324.8	1326.2	953.3	799.9	735.4	704.1	702.3
60°	21937.9	25080.1	17952.2	5097.6	1664.3	1014.3	787.7	714.5	664.0	643.1	641.3
62.5°	26444.7	28576.1	18638.8	3471.6	1251.3	808.6	693.6	648.3	618.7	606.5	604.7
65°	31076.9	30785.9	18311.2	2274.3	949.8	686.6	622.2	597.8	571.6	559.4	559.4
67.5°	*33813.1*	*30318.8*	*15796.4*	*1578.9*	*752.9*	*603.0*	*561.2*	*538.5*	*494.9*	*484.5*	*484.5*
70°	29949.4	24567.7	10353.8	1155.5	610.0	528.1	488.0	456.6	439.2	428.7	427.0
72.5°	19808.2	15986.4	5505.4	801.7	508.9	449.6	413.0	400.8	379.9	369.5	367.7
75°	9858.8	8396.6	2821.5	578.6	423.5	360.8	345.1	339.8	322.4	308.5	305.0
77.5°	4109.4	3738.2	1315.8	420.0	322.4	291.0	277.1	277.1	257.9	242.2	235.3
80°	1549.3	1380.3	622.2	287.6	238.8	216.1	207.4	200.4	184.7	165.6	155.1
82.5°	2072.1	1354.1	305.0	179.5	156.8	139.4	127.2	122.0	113.3	104.6	97.6
85°	1341.9	962.0	137.7	92.4	78.4	59.3	52.3	48.8	43.6	38.3	34.9
87.5°	273.6	322.4	41.8	17.4	10.5	5.2	5.2	1.7	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

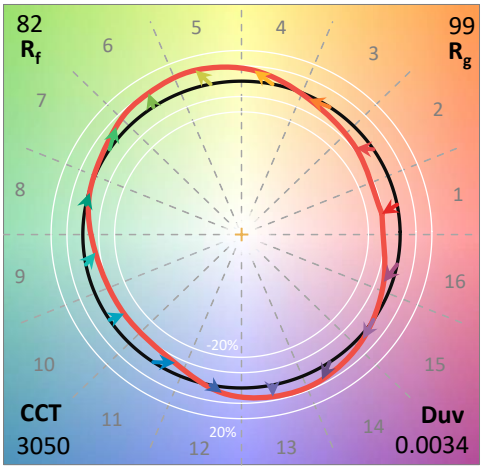
Test Information

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

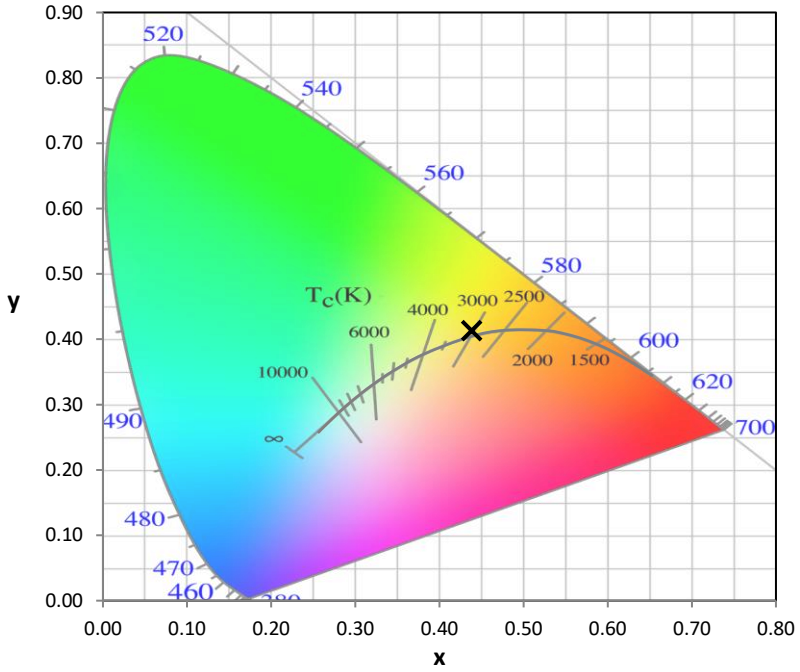
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

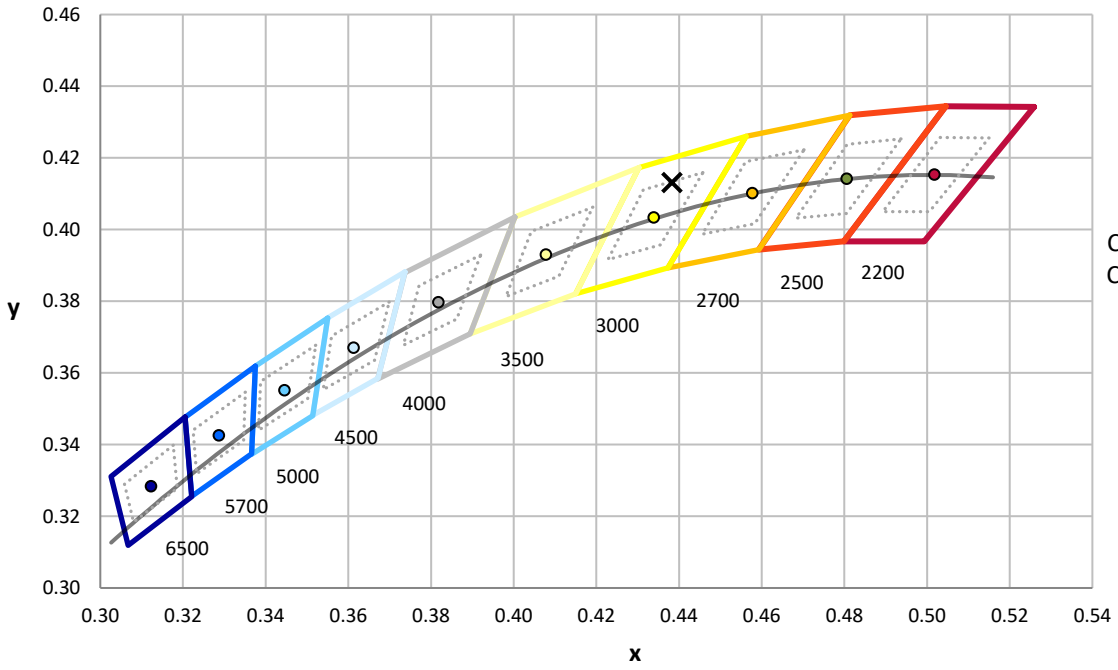
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

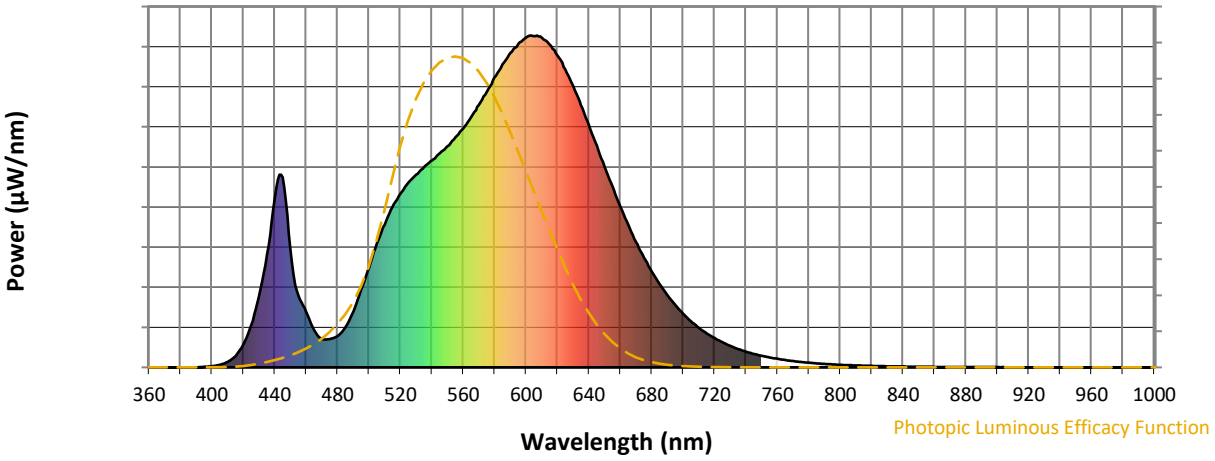


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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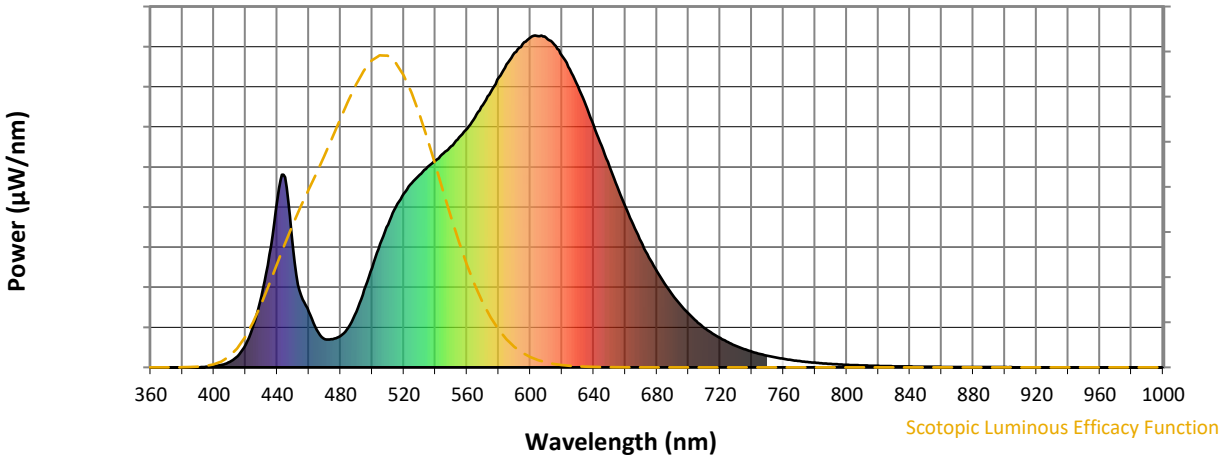
Scotopic Flux vs. Wavelength



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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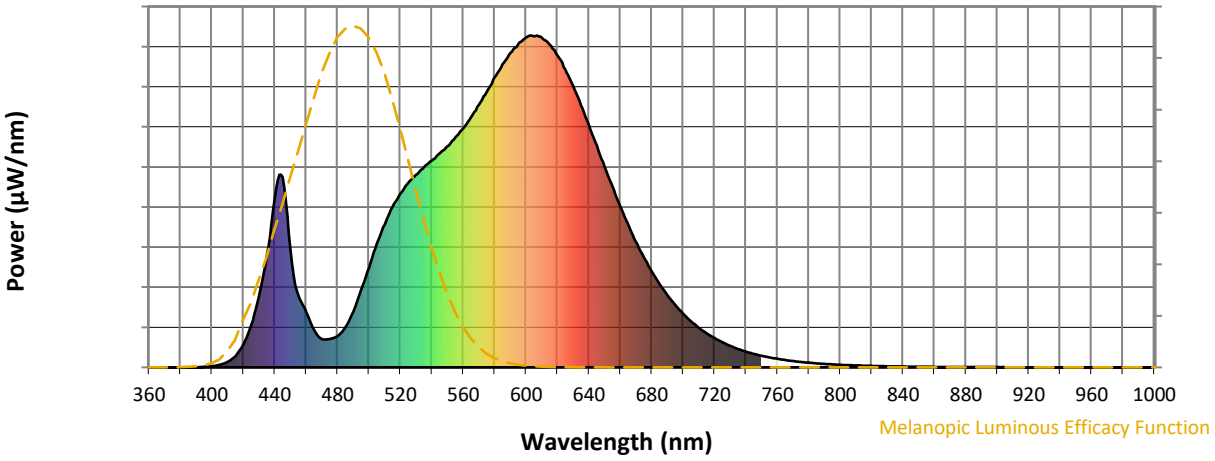
Melanopic Flux vs. Wavelength



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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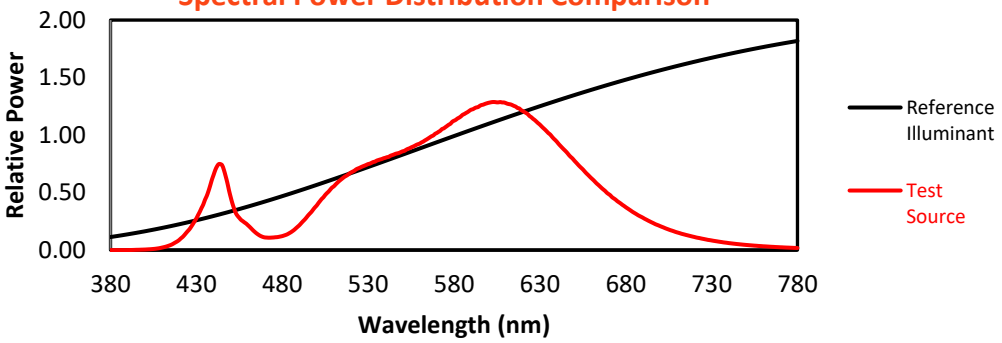
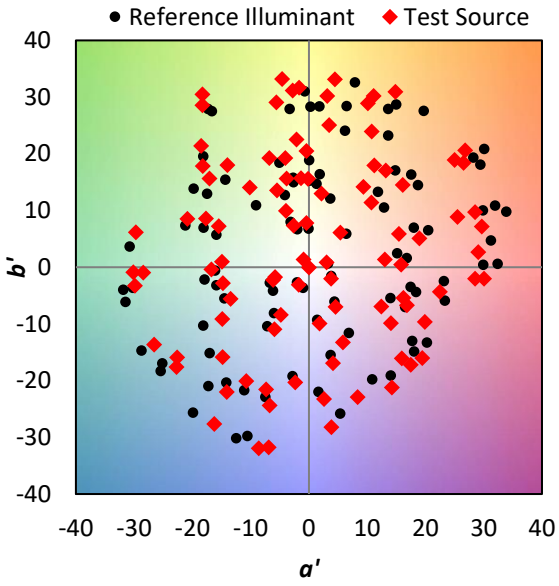
Summary

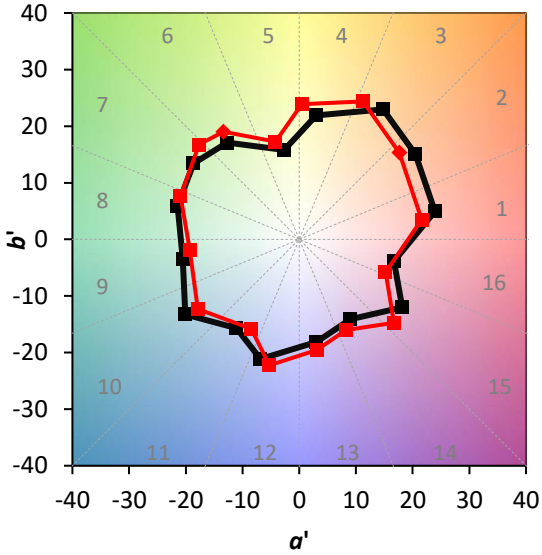
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

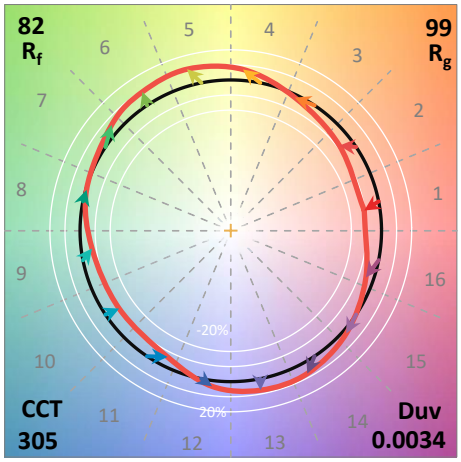
Spectral Power Distribution Comparison

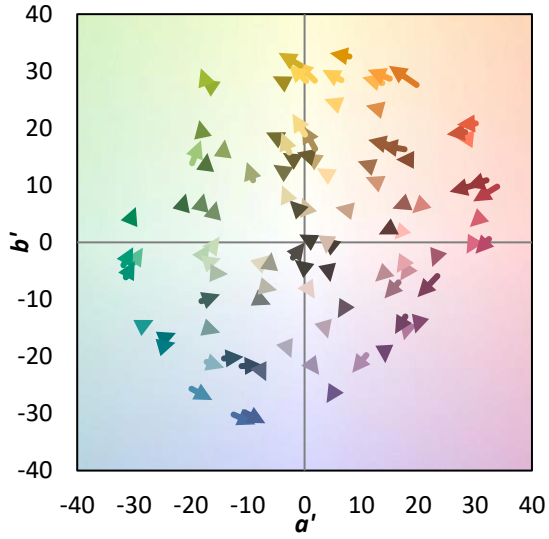


Color Vector Graphics









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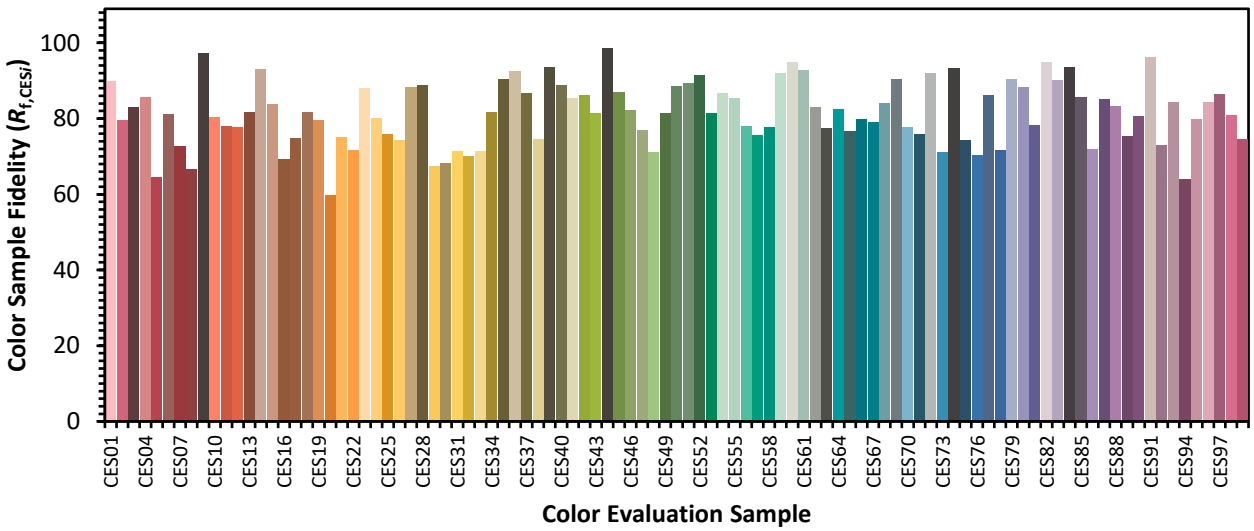
Individual Sample Fidelity Index ($R_{f,i}$)

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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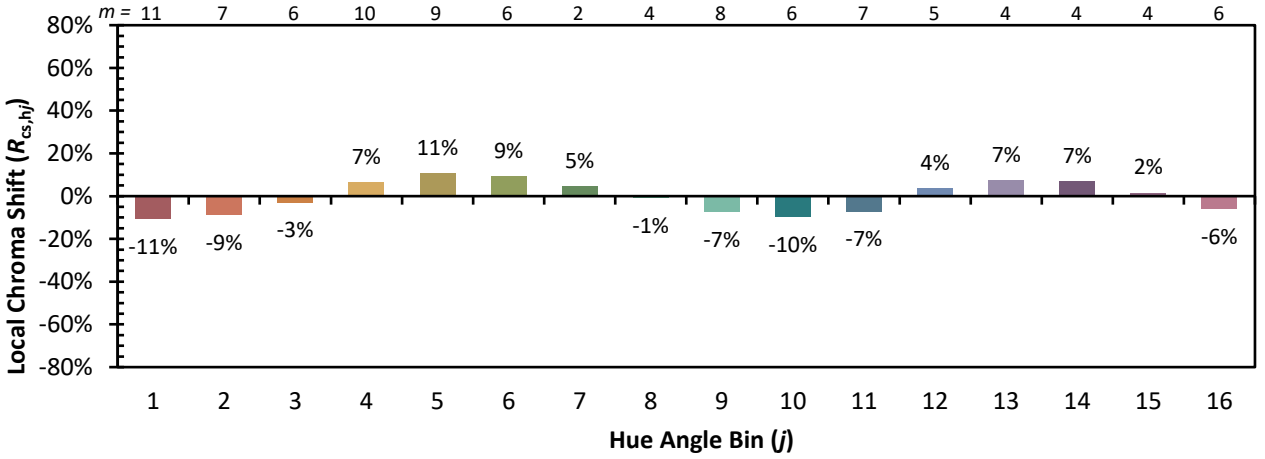
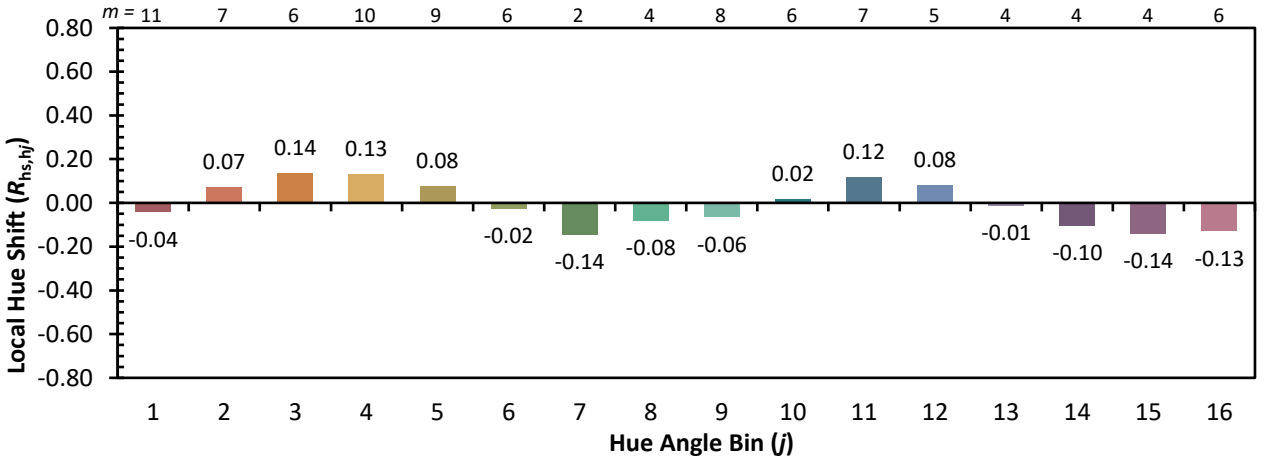
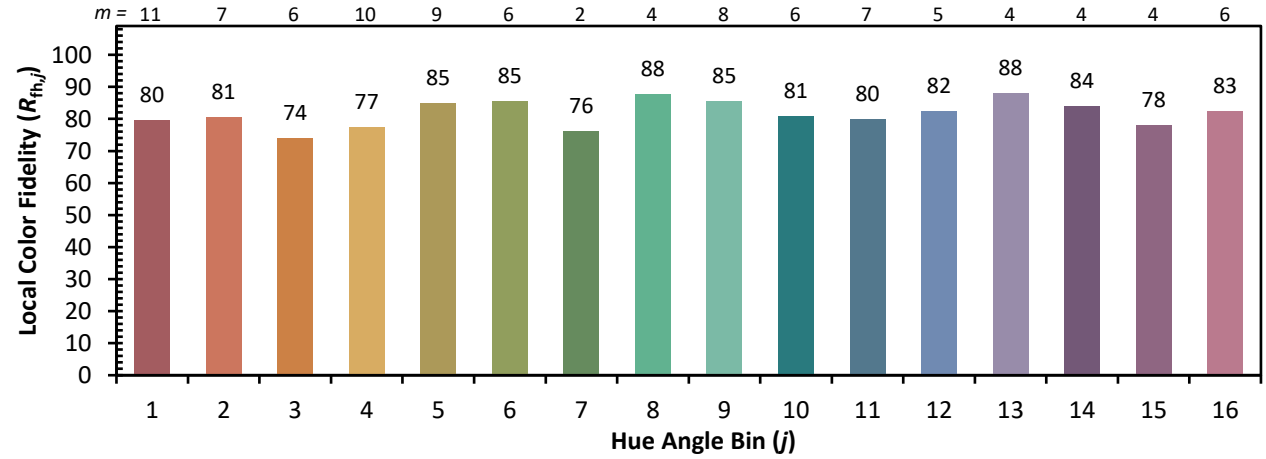
Color Rendition by Hue-Angle Bin







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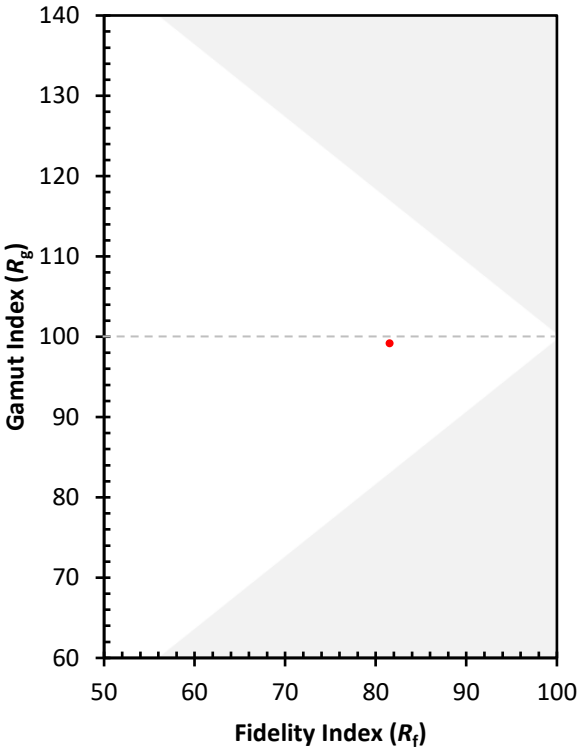
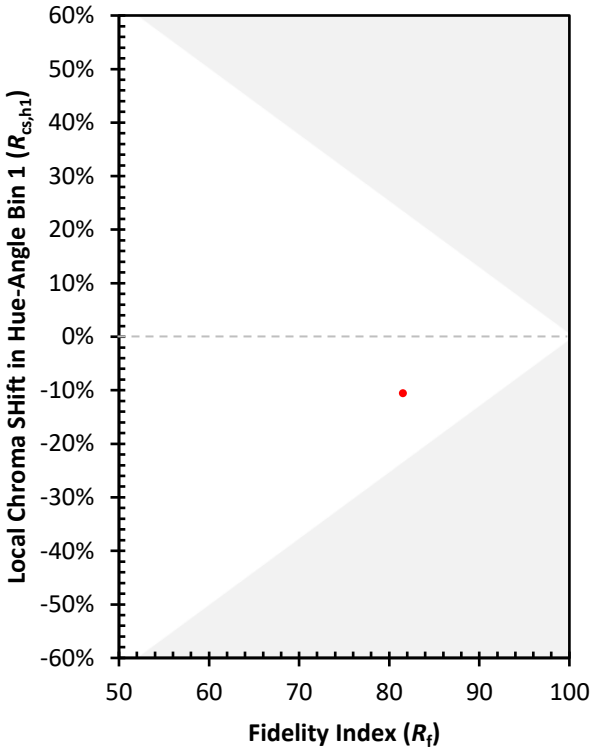
Measure Comparisons





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