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: P637480

Luminaire Tested: GWS-SA4C-830-U-SL2-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:	P637480
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-SL2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13133.8 lumens
Efficiency:	N/A
Efficacy:	102.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	128.5
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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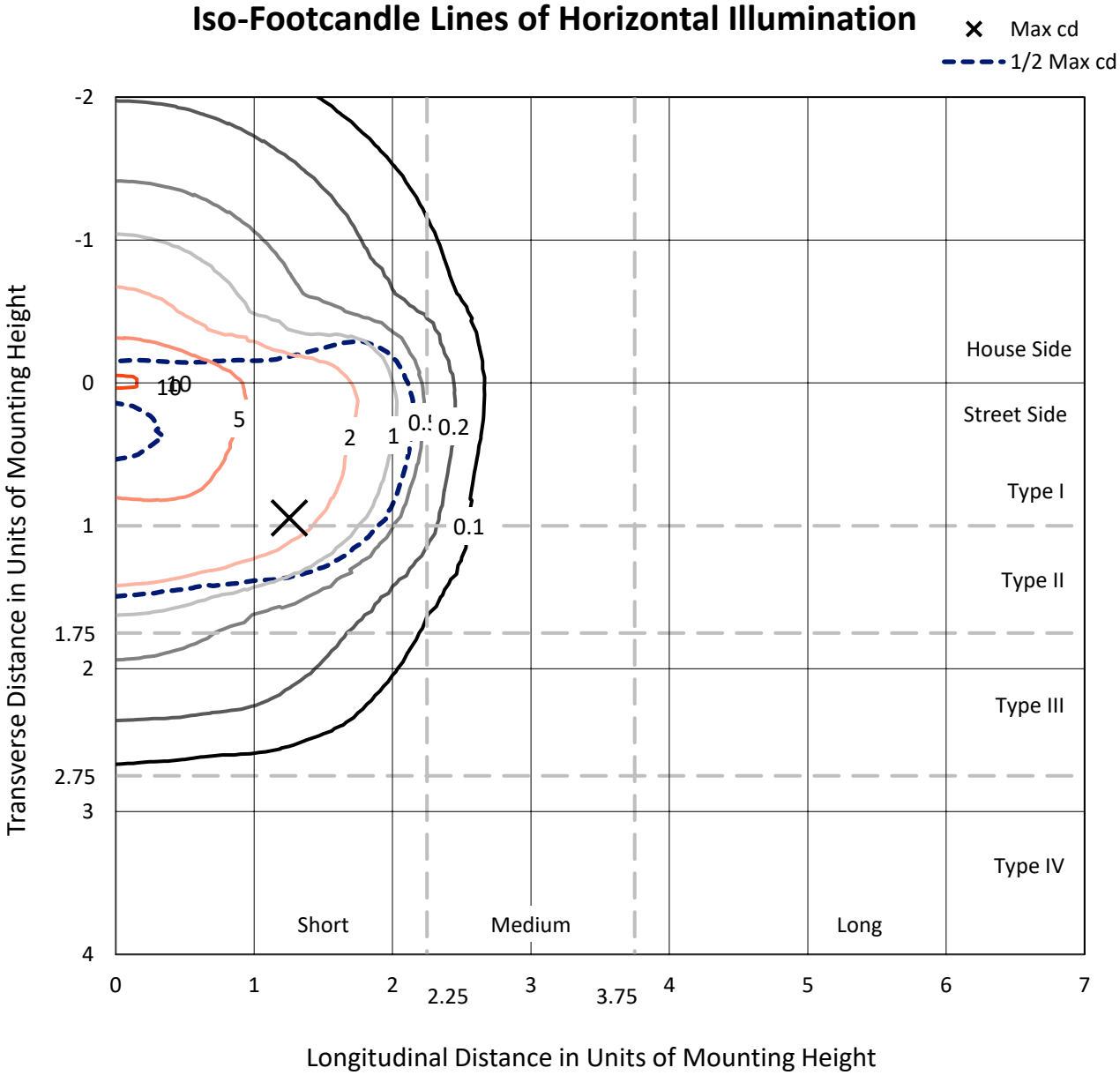
REPORT NUMBER: P637480
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - N/A

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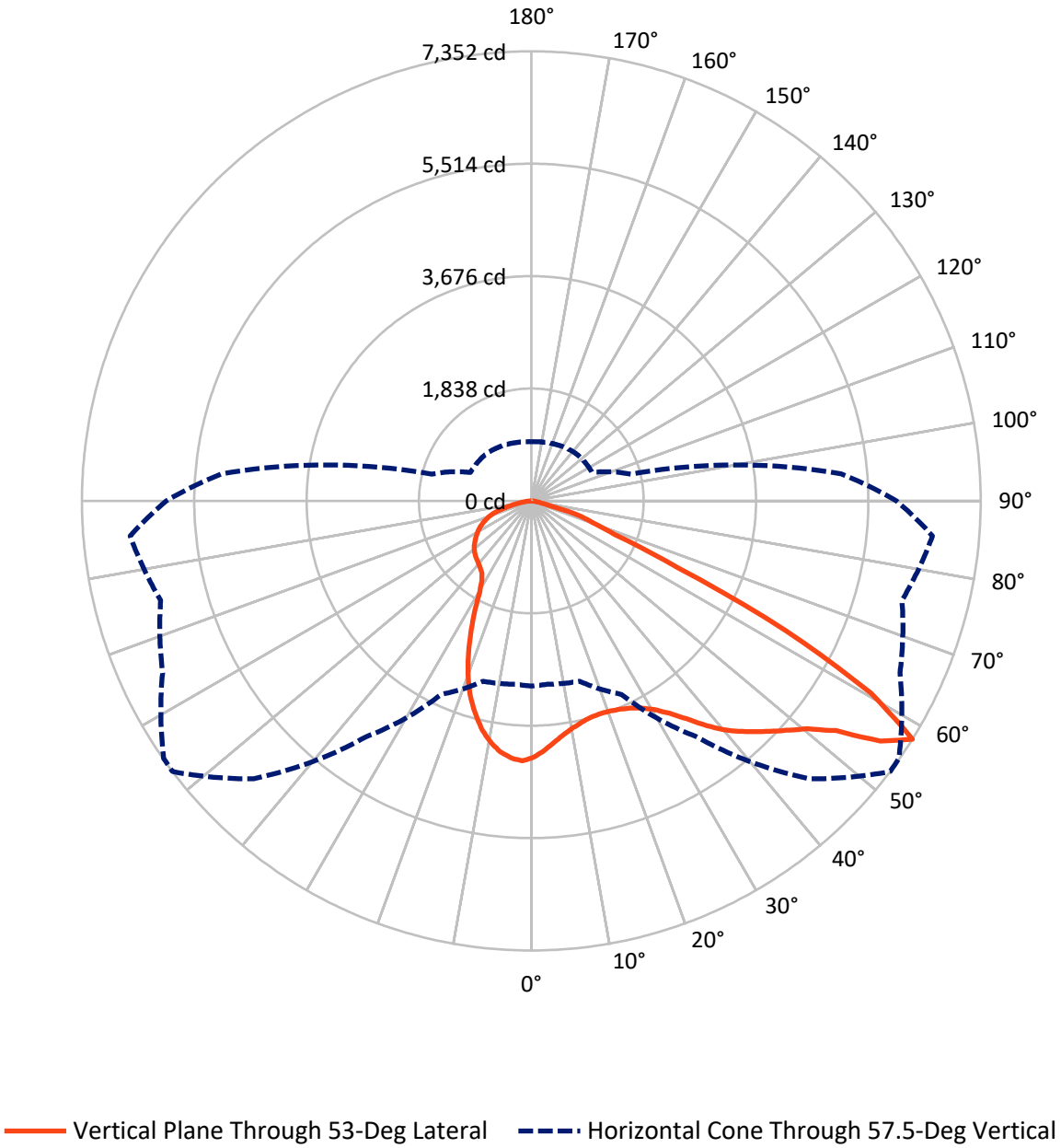
Luminous Intensity Polar Plot



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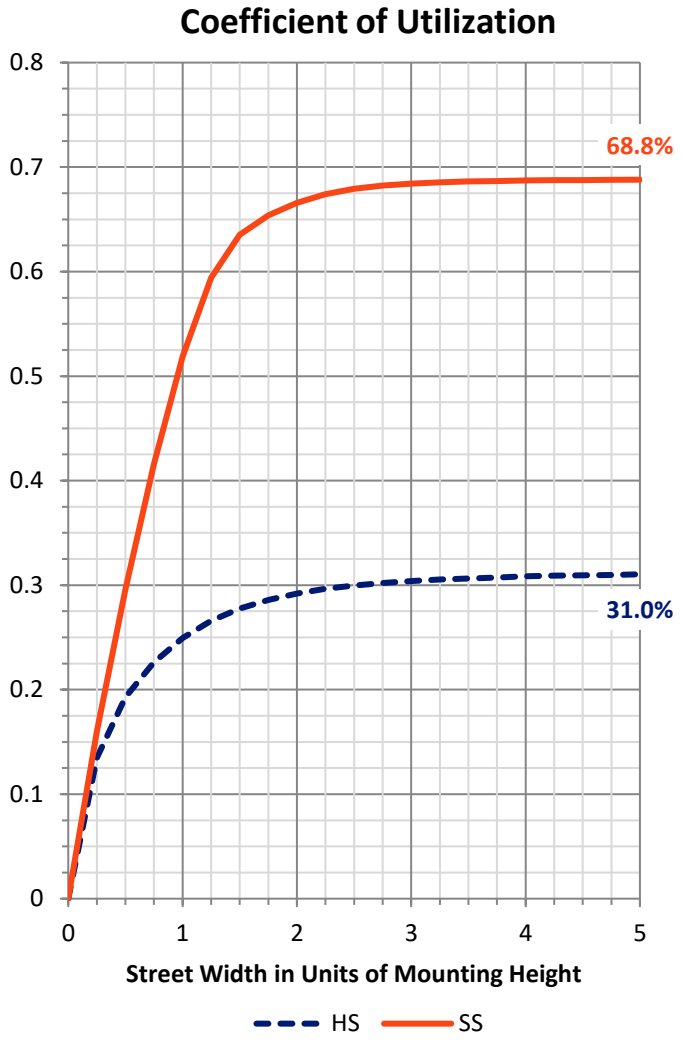
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4106.5	0.0	4106.5
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	9027.3	0.0	9027.3
	% Fixture	68.7	0.0	68.7
Total	Lumens	13133.8	0.0	13133.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	2.9
10°-20°	995.0	7.6
20°-30°	1466.0	11.2
30°-40°	2052.0	15.6
40°-50°	2697.5	20.5
50°-60°	3162.8	24.1
60°-70°	1863.3	14.2
70°-80°	463.5	3.5
80°-90°	54.4	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°	13133.8	100.0
0°-180°	13133.8	100.0



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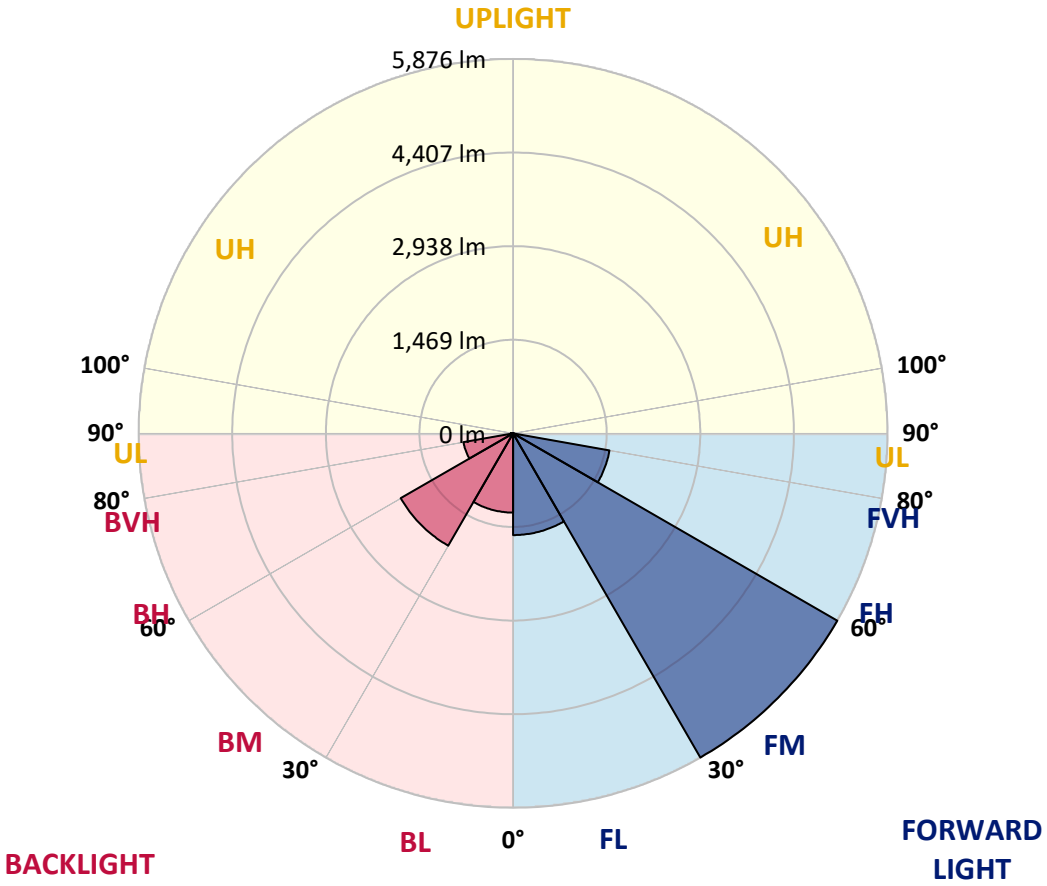
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1596.8	12.2			
FM	(30°-60°)	5876.2	44.7			
FH	(60°-80°)	1536.2	11.7			G1/1800
FVH	(80°-90°)	18.2	0.1			G1/100
BL	(0°-30°)	1243.5	9.5	B3/2500		
BM	(30°-60°)	2036.2	15.5	B2/2500		
BH	(60°-80°)	790.6	6.0	B2/1000		G2/1000
BVH	(80°-90°)	36.2	0.3			G1/100
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: P637480
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0
2.5°	3953.0	3964.0	3966.3	4000.5	4002.7	4052.5	4085.6	4079.0	4113.3	4155.3	4188.5
5°	3764.0	3765.1	3776.1	3817.0	3839.1	3904.4	3959.6	3959.6	4026.0	4112.2	4186.2
7.5°	3608.1	3607.0	3616.9	3662.3	3698.7	3777.2	3852.4	3861.2	3954.1	4080.1	4200.6
10°	3463.3	3471.0	3482.1	3537.4	3583.8	3681.1	3770.6	3785.0	3902.1	4058.0	4220.5
12.5°	3370.4	3371.5	3388.1	3450.0	3509.7	3613.6	3707.6	3725.3	3860.1	4037.0	4234.9
15°	3310.7	3311.8	3329.5	3398.1	3467.7	3572.7	3668.9	3688.8	3835.8	4033.7	4262.5
17.5°	3284.2	3283.1	3299.7	3368.2	3444.5	3553.9	3656.7	3681.1	3846.9	4059.1	4311.2
20°	3284.2	3285.3	3294.2	3356.1	3433.4	3549.5	3668.9	3698.7	3890.0	4116.6	4386.3
22.5°	3330.6	3335.1	3339.5	3381.5	3442.3	3556.1	3701.0	3740.8	3982.8	4212.8	4484.7
25°	3421.3	3422.4	3426.8	3461.1	3488.7	3574.9	3754.0	3813.7	4127.7	4353.2	4608.5
27.5°	3542.9	3558.4	3562.8	3584.9	3584.9	3621.4	3836.9	3923.1	4323.3	4555.5	4766.6
30°	3713.1	3718.6	3726.4	3750.7	3724.2	3708.7	3958.5	4069.1	4549.9	4799.7	4956.7
32.5°	3862.4	3874.5	3916.5	3956.3	3908.8	3860.1	4137.6	4268.0	4767.7	5054.0	5159.0
35°	3989.5	4019.3	4100.0	4188.5	4155.3	4106.6	4375.3	4511.2	4946.8	5236.4	5338.1
37.5°	4143.1	4166.3	4276.9	4420.6	4450.4	4427.2	4664.9	4762.2	5066.2	5282.8	5435.4
40°	4299.0	4334.4	4477.0	4675.9	4789.8	4806.4	4932.4	4997.6	5107.1	5192.2	5416.6
42.5°	4458.2	4519.0	4714.6	4946.8	5149.1	5186.6	5157.9	5185.5	5093.8	5067.3	5329.2
45°	4652.7	4724.6	4945.7	5241.9	5508.3	5566.9	5379.0	5353.6	5091.6	5019.7	5275.1
47.5°	4882.7	4954.5	5165.6	5510.5	5851.0	5894.1	5605.6	5559.2	5169.0	5092.7	5348.0
50°	5086.1	5135.8	5324.8	5710.6	6170.5	6195.9	5855.4	5799.1	5361.3	5295.0	5575.8
52.5°	4879.3	4873.8	5072.8	5548.1	6336.3	6642.5	6240.1	6186.0	5732.7	5631.0	5928.4
55°	4139.8	4076.8	4254.8	4722.4	5873.1	7039.3	6929.9	6821.6	6228.0	5969.3	6258.9
57.5°	3026.6	3009.0	3052.1	3490.9	4704.7	6424.7	7352.2	7342.2	6655.8	6278.8	6588.3
60°	2366.7	2340.2	2225.2	2237.4	3206.8	5018.6	6380.5	6673.4	6921.1	6464.5	6818.3
62.5°	2101.4	2081.5	2021.8	1857.1	1910.2	3364.9	4677.0	4945.7	6047.8	5709.5	5856.5
65°	1739.9	1734.4	1784.2	1777.5	1600.7	1858.2	2639.8	2910.6	3802.7	3850.2	3802.7
67.5°	1264.6	1254.7	1380.7	1629.4	1541.0	1402.8	1471.3	1565.3	1950.0	1751.0	1576.3
70°	822.4	808.1	881.0	1177.3	1379.6	1222.6	1060.1	1044.6	1072.3	666.6	720.7
72.5°	551.6	535.0	533.9	647.8	833.5	823.5	821.3	813.6	726.3	526.2	583.7
75°	307.3	294.0	290.7	279.7	298.5	304.0	323.9	334.9	362.6	399.1	442.2
77.5°	52.0	50.8	64.1	81.8	112.8	144.8	179.1	189.0	233.2	276.4	304.0
80°	28.7	29.8	38.7	47.5	63.0	86.2	110.5	117.2	143.7	166.9	189.0
82.5°	15.5	15.5	19.9	25.4	34.3	45.3	59.7	65.2	82.9	97.3	112.8
85°	5.5	5.5	7.7	9.9	14.4	18.8	23.2	26.5	36.5	49.7	56.4
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	4.4	4.4	5.5	9.9	14.4
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: P637480
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0
2.5°	4216.1	4186.2	4227.1	4245.9	4252.6	4257.0	4228.2	4208.3	4201.7	4180.7	4168.6
5°	4231.6	4211.7	4250.4	4250.4	4222.7	4194.0	4135.4	4094.5	4065.7	4031.5	4026.0
7.5°	4258.1	4243.7	4264.7	4221.6	4152.0	4074.6	3972.9	3893.3	3829.2	3787.2	3788.3
10°	4293.5	4275.8	4259.2	4163.0	4035.9	3893.3	3737.4	3621.4	3515.2	3466.6	3440.1
12.5°	4316.7	4291.3	4221.6	4062.4	3875.6	3684.4	3464.4	3292.0	3138.3	3068.7	3063.1
15°	4345.4	4299.0	4159.7	3932.0	3672.2	3411.3	3128.3	2888.5	2680.7	2572.3	2566.8
17.5°	4383.0	4306.7	4085.6	3782.8	3457.8	3073.1	2717.1	2415.4	2194.3	2110.3	2124.6
20°	4436.1	4315.6	4001.6	3616.9	3191.4	2688.4	2245.1	1967.7	1882.5	1877.0	1866.0
22.5°	4495.8	4321.1	3908.8	3431.2	2868.6	2278.3	1854.9	1736.6	1735.5	1763.2	1769.8
25°	4563.2	4325.5	3803.8	3214.6	2519.3	1869.3	1640.4	1605.1	1632.7	1684.7	1691.3
27.5°	4649.4	4334.4	3676.6	2976.9	2147.8	1615.0	1522.2	1513.3	1546.5	1595.1	1592.9
30°	4776.5	4366.4	3541.8	2703.9	1766.5	1494.5	1450.3	1451.4	1464.7	1487.9	1491.2
32.5°	4905.9	4416.2	3410.2	2396.6	1547.6	1426.0	1406.1	1403.9	1403.9	1413.8	1416.0
35°	5028.6	4472.5	3267.6	2076.0	1441.5	1386.2	1372.9	1366.3	1363.0	1360.8	1357.5
37.5°	5097.1	4500.2	3128.3	1759.8	1385.1	1359.7	1346.4	1337.6	1325.4	1316.6	1314.3
40°	5067.3	4468.1	2967.0	1523.3	1350.8	1334.2	1318.8	1306.6	1290.0	1282.3	1277.9
42.5°	4967.8	4368.6	2791.2	1411.6	1323.2	1306.6	1287.8	1267.9	1256.9	1250.2	1249.1
45°	4862.8	4248.1	2579.0	1346.4	1296.7	1276.8	1254.7	1232.5	1220.4	1217.1	1216.0
47.5°	4859.4	4188.5	2353.4	1294.5	1264.6	1244.7	1217.1	1195.0	1181.7	1177.3	1172.9
50°	5005.4	4249.2	2099.2	1249.1	1231.4	1210.4	1179.5	1155.2	1138.6	1133.1	1132.0
52.5°	5308.2	4478.1	1871.5	1203.8	1187.2	1162.9	1137.5	1113.2	1093.3	1083.3	1082.2
55°	5635.4	4768.8	1730.0	1157.4	1135.3	1114.3	1091.1	1064.5	1042.4	1026.9	1024.7
57.5°	*5973.7*	*5086.1*	*1686.9*	*1098.8*	*1082.2*	*1067.8*	*1040.2*	*1011.5*	*986.0*	*971.7*	*968.4*
60°	6252.3	5359.1	1767.6	1036.9	1028.0	1009.3	983.8	956.2	938.5	927.5	925.2
62.5°	5234.2	4363.1	1427.1	969.5	969.5	949.6	920.8	900.9	888.8	881.0	878.8
65°	3321.8	2701.7	973.9	902.0	900.9	874.4	850.1	836.8	831.3	819.1	816.9
67.5°	1447.0	1234.8	832.4	833.5	829.1	800.3	776.0	766.1	755.0	741.7	740.6
70°	750.6	765.0	745.1	757.2	749.5	715.2	692.0	676.5	653.3	640.0	641.1
72.5°	605.8	621.2	643.4	662.1	645.6	617.9	581.5	562.7	532.8	518.4	519.5
75°	462.1	478.6	499.7	519.5	506.3	472.0	448.8	430.0	395.7	379.2	382.5
77.5°	318.4	327.2	352.6	351.5	347.1	337.2	302.9	280.8	245.4	225.5	227.7
80°	197.9	203.4	215.6	221.1	218.9	205.6	178.0	161.4	140.4	128.2	129.3
82.5°	119.4	122.7	133.8	134.9	133.8	123.8	102.8	90.6	77.4	70.7	70.7
85°	60.8	63.0	69.6	69.6	63.0	53.1	47.5	42.0	34.3	31.0	31.0
87.5°	16.6	16.6	21.0	17.7	14.4	13.3	6.6	5.5	2.2	1.1	1.1
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

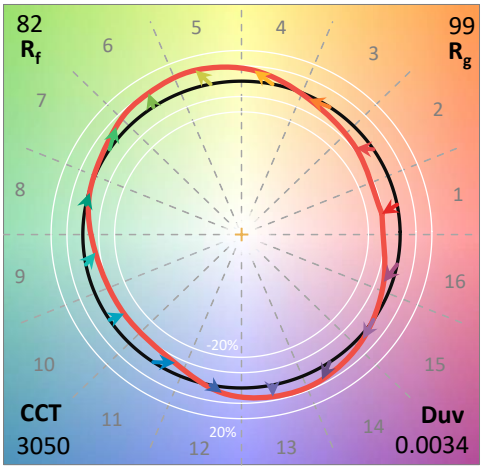
Test Information

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

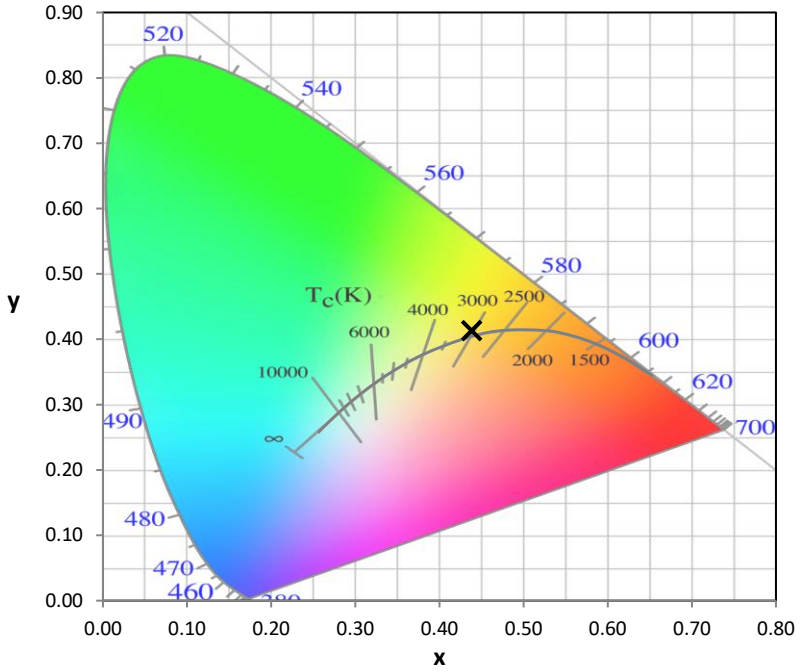
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

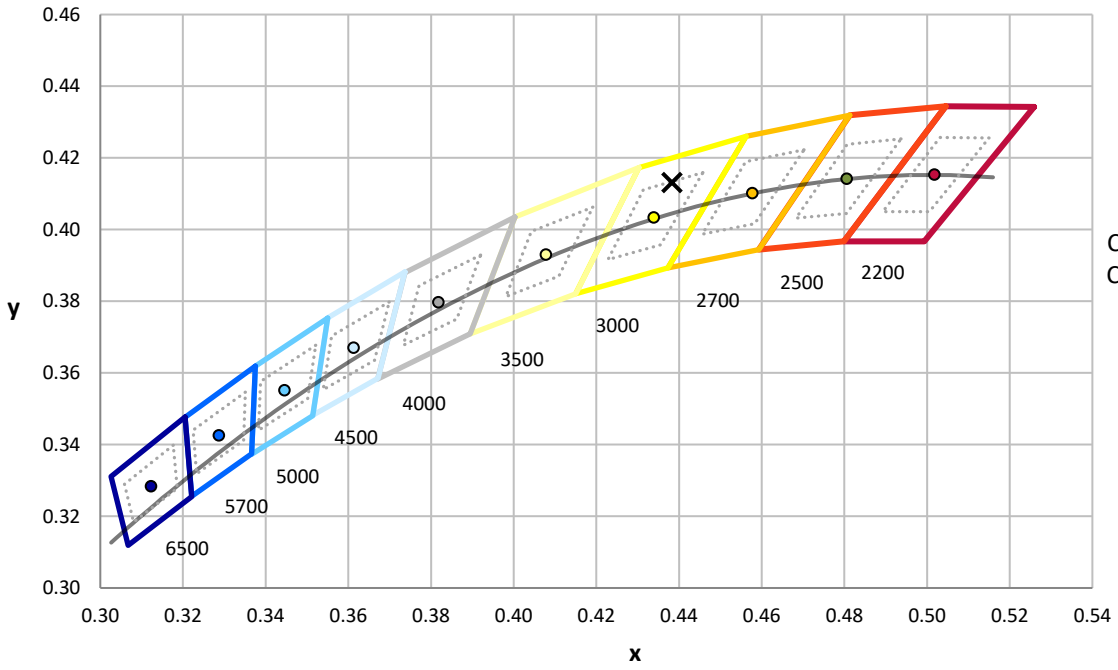
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

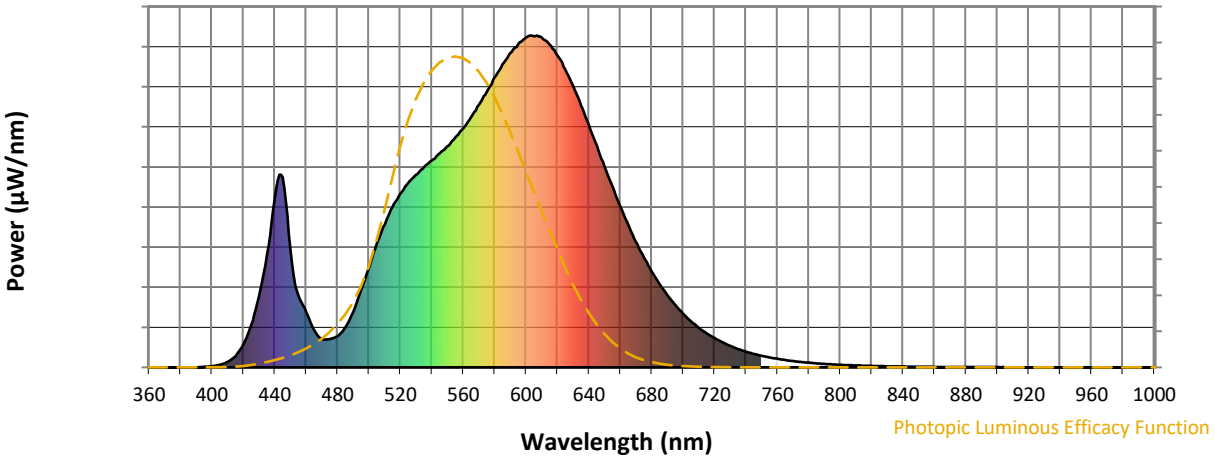


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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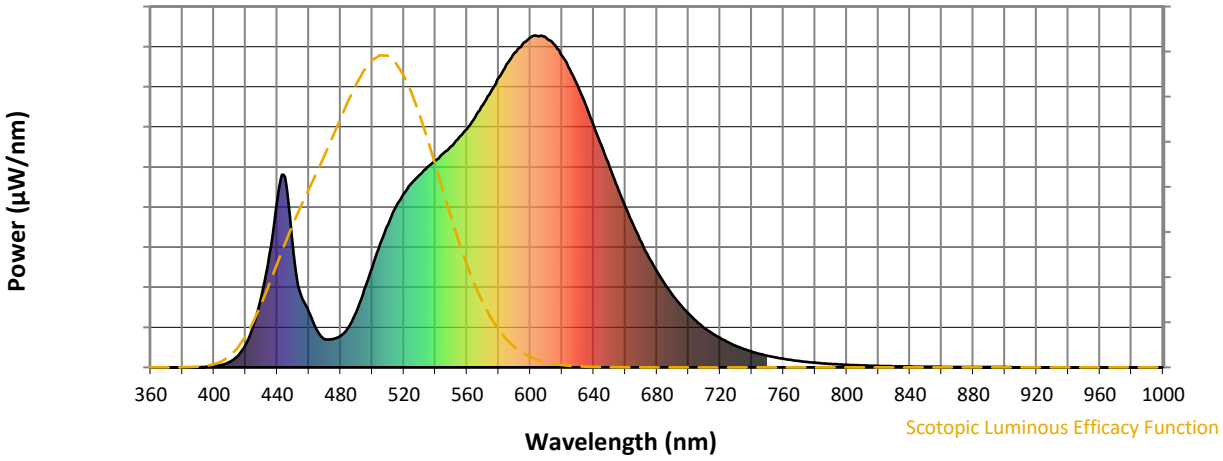
Scotopic Flux vs. Wavelength



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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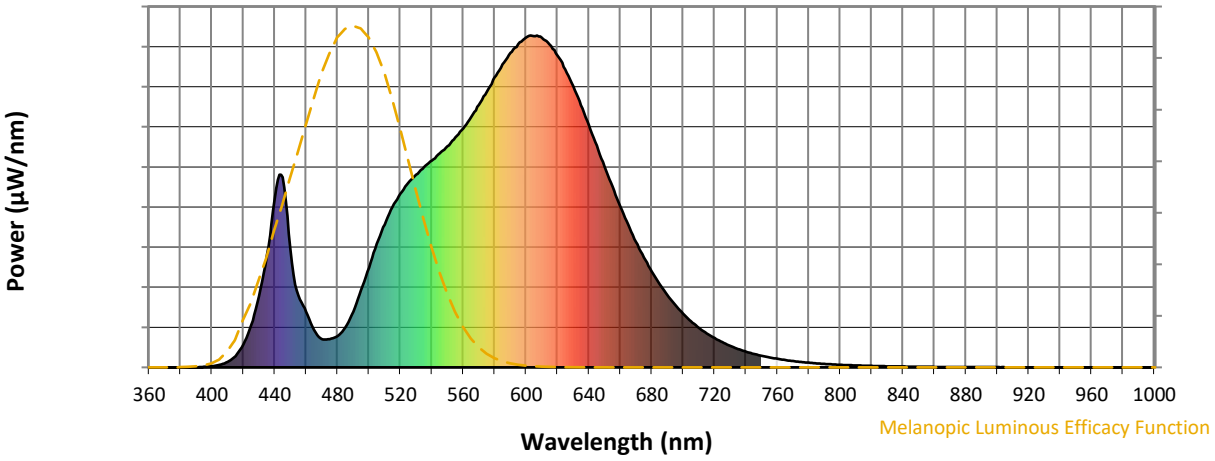
Melanopic Flux vs. Wavelength



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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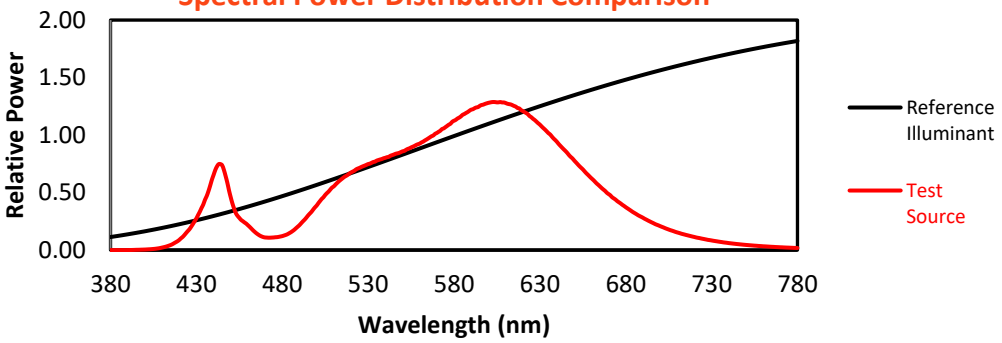
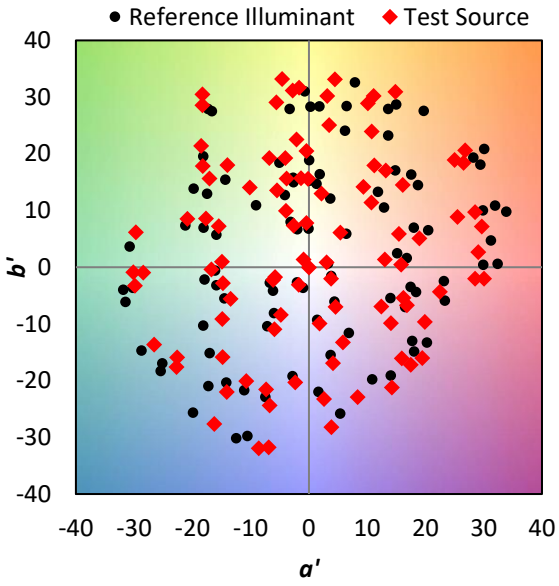
Summary

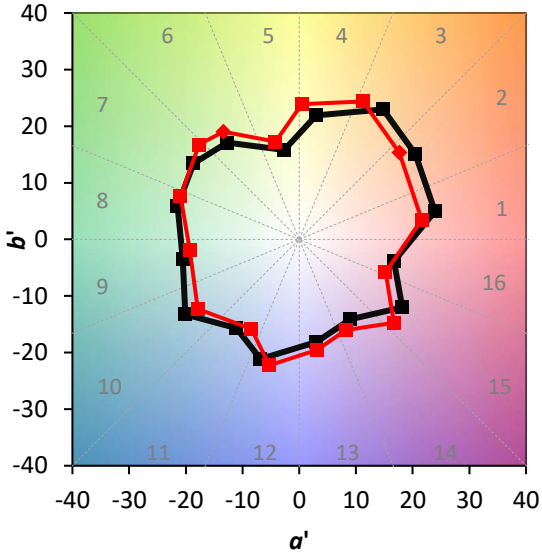
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

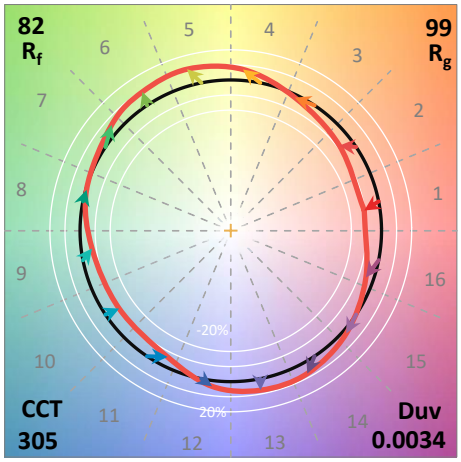
Spectral Power Distribution Comparison

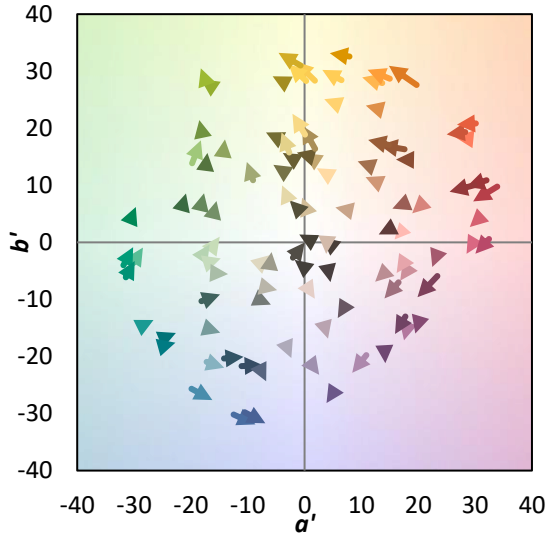


Color Vector Graphics









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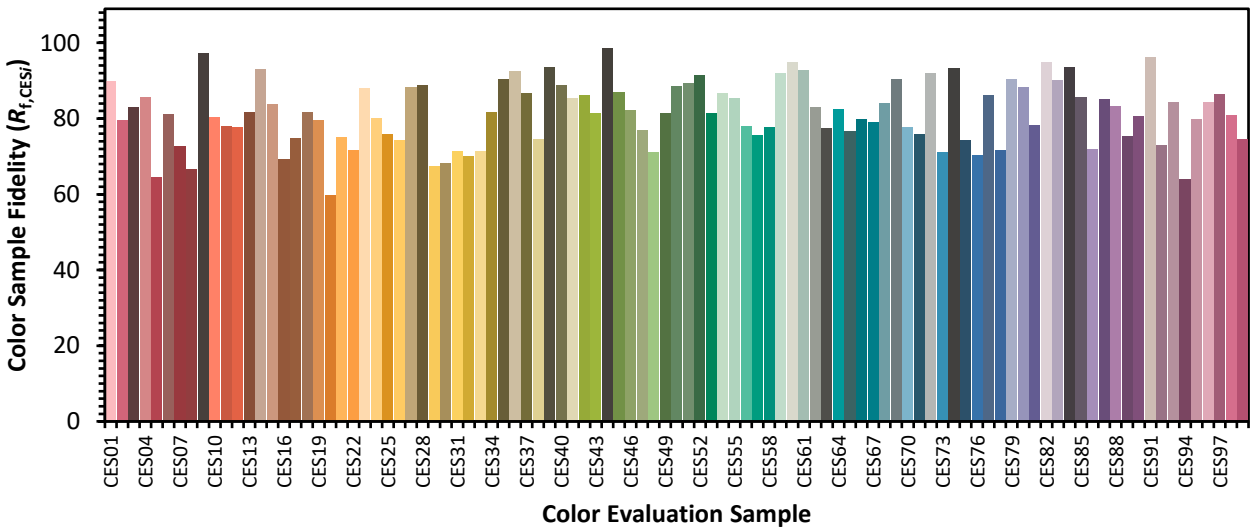
Individual Sample Fidelity Index ($R_{f,i}$)

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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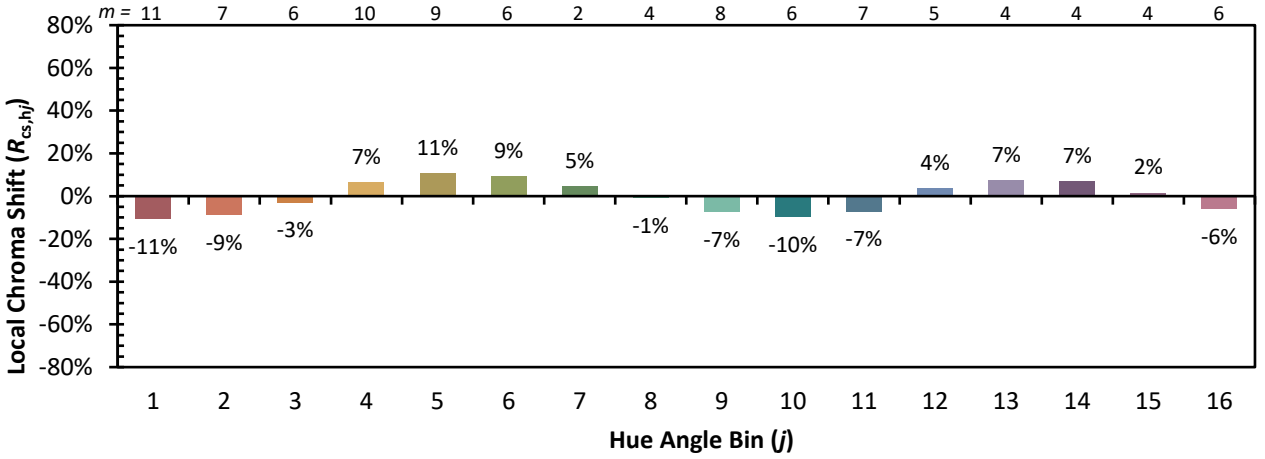
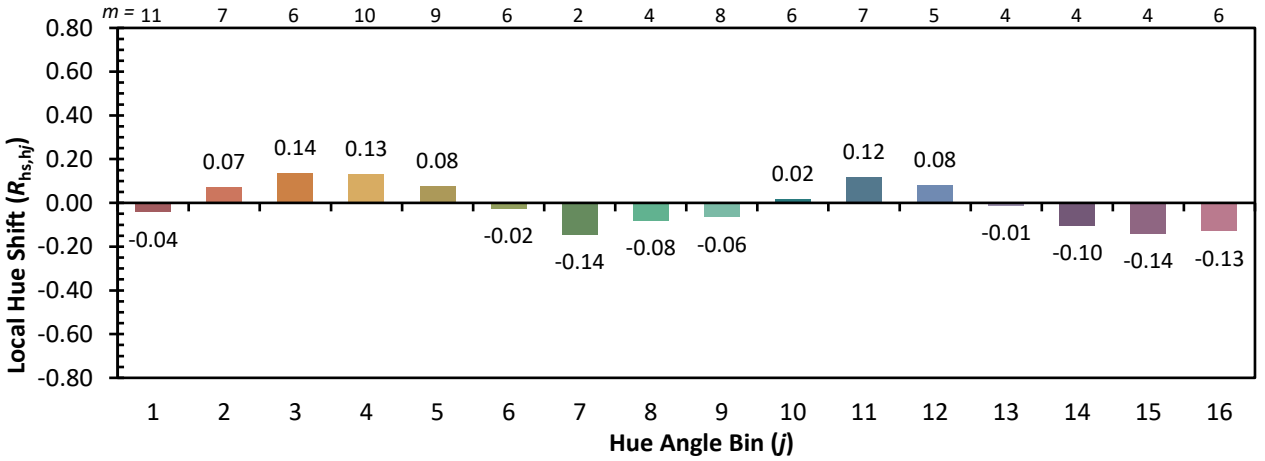
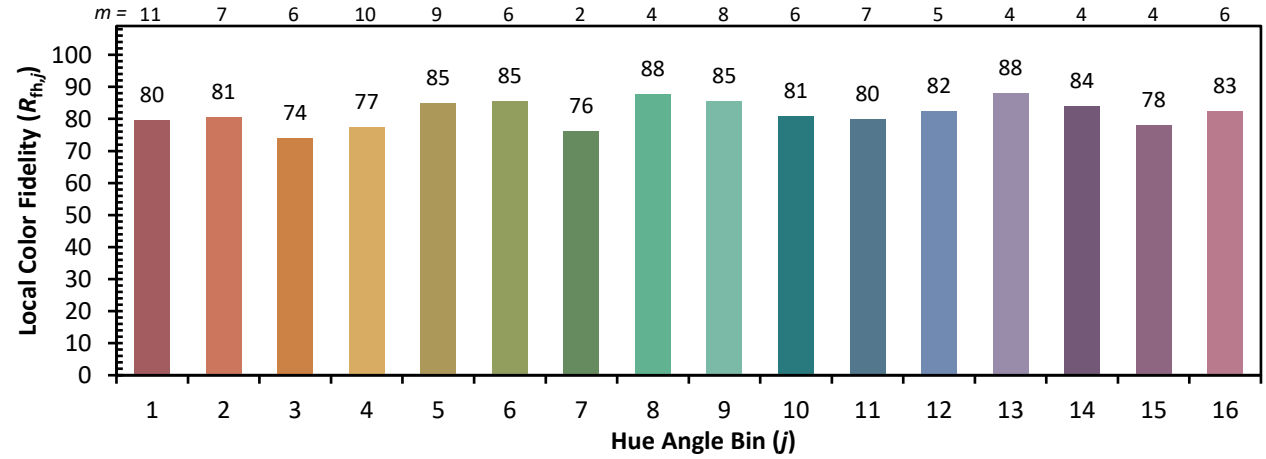
Color Rendition by Hue-Angle Bin







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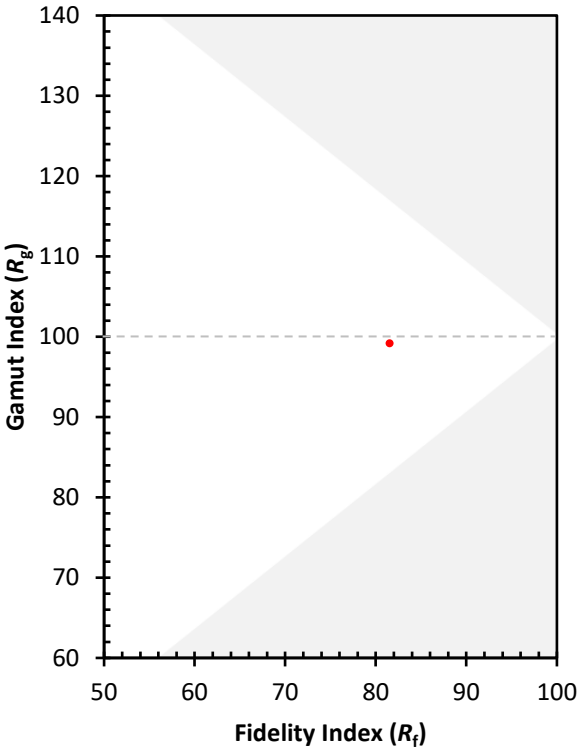
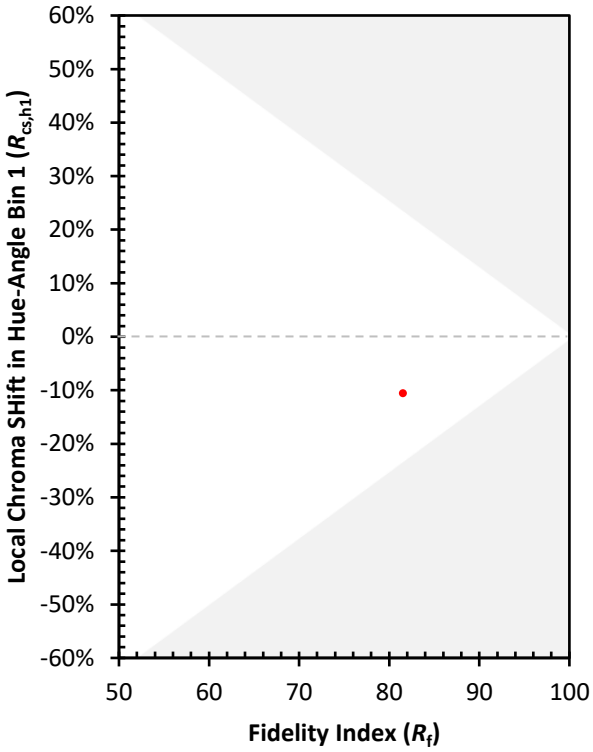
Measure Comparisons





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