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: P635504

Luminaire Tested: GWS-SA3D-830-U-SL3-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:	P635504
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11707.3 lumens
Efficiency:	N/A
Efficacy:	96.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	120.8
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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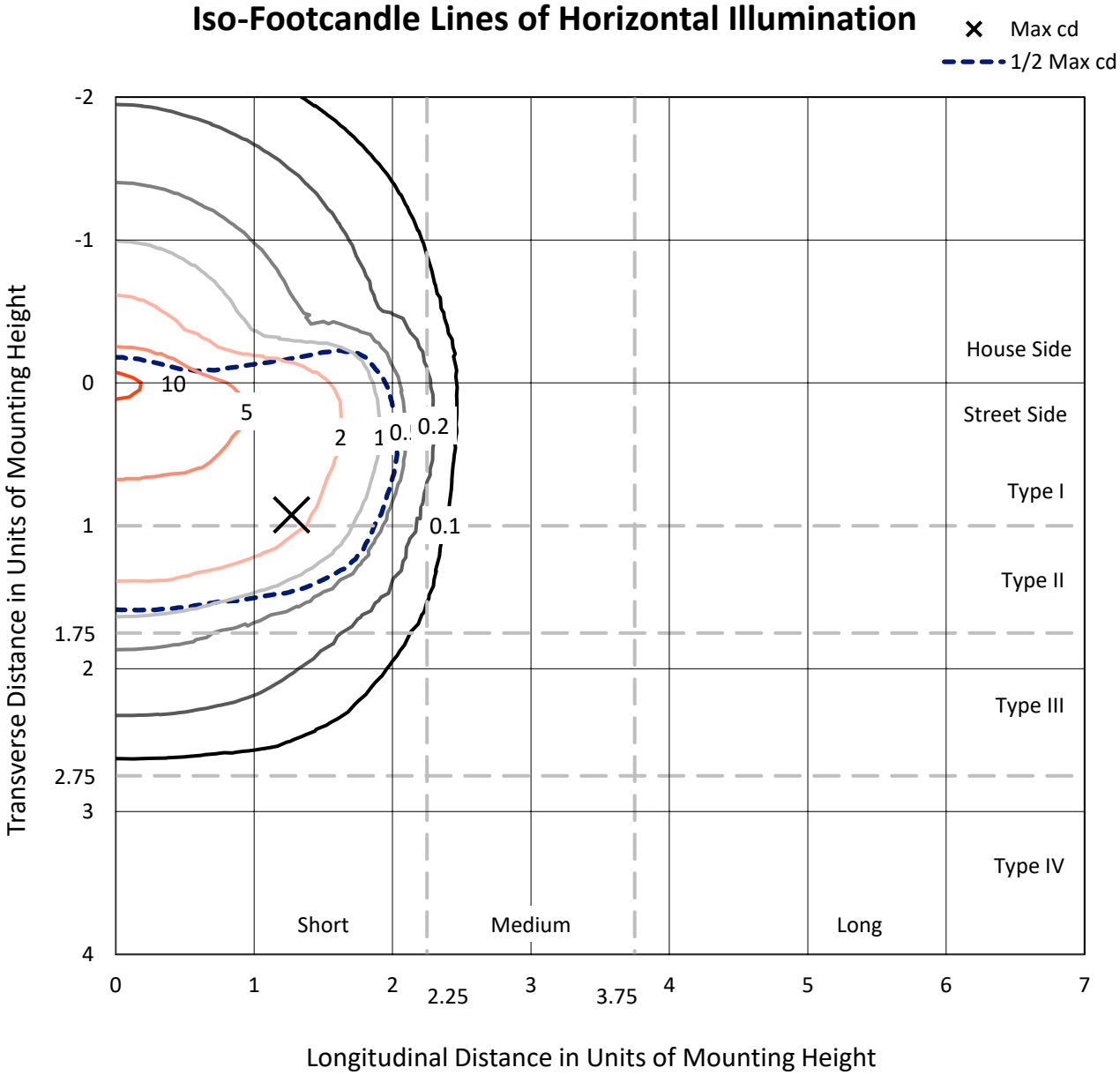
REPORT NUMBER: P635504
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - N/A

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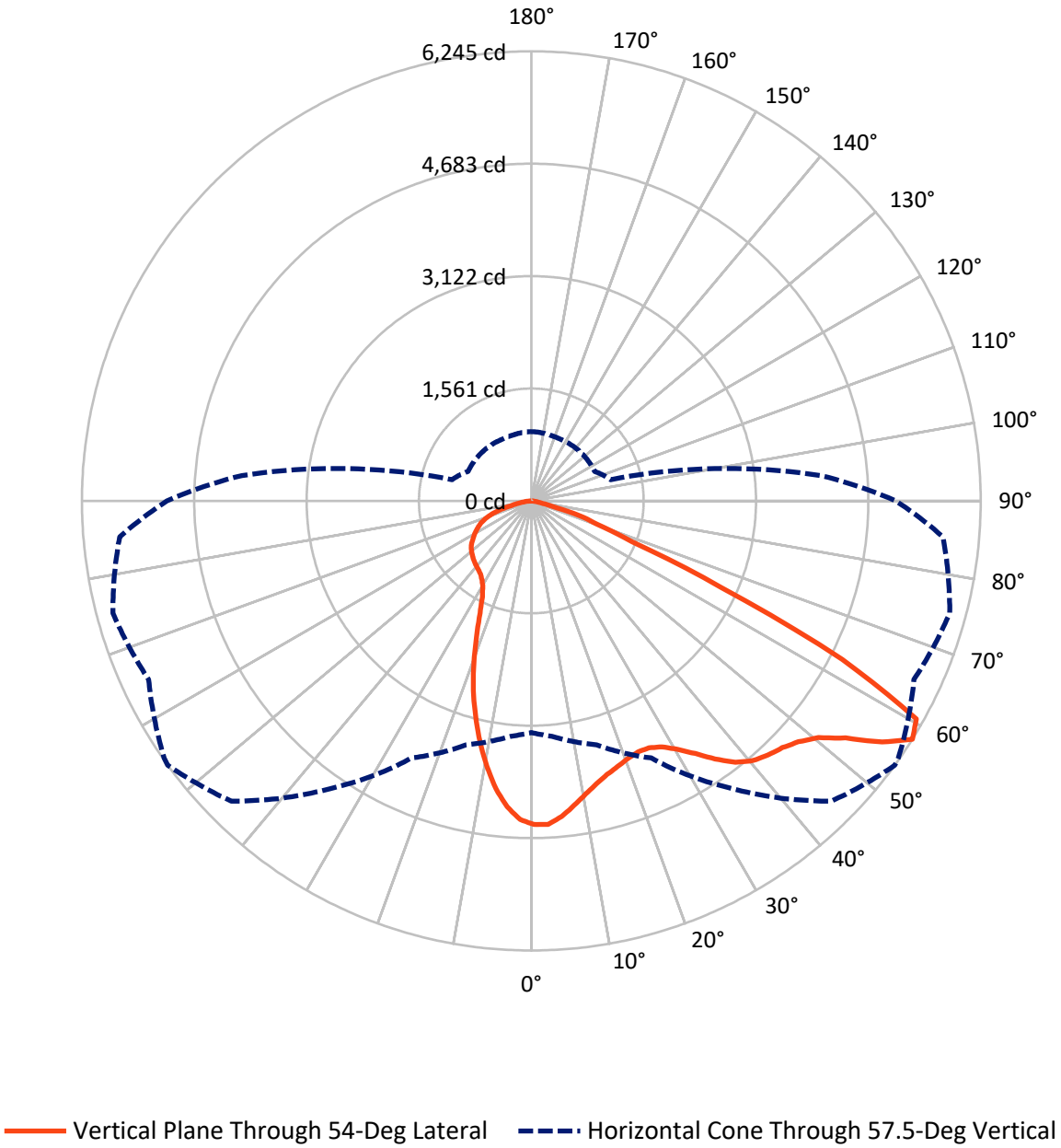
Luminous Intensity Polar Plot



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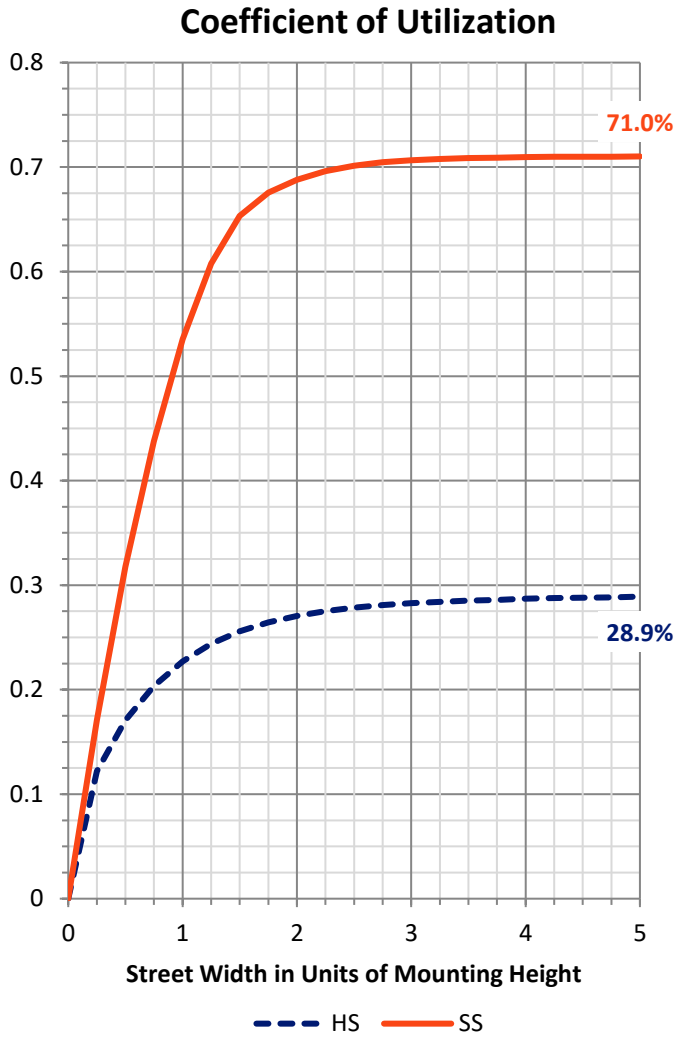
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3403.4	0.0	3403.4
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8303.8	0.0	8303.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	11707.3	0.0	11707.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	3.4
10°-20°	942.7	8.1
20°-30°	1304.6	11.1
30°-40°	1812.7	15.5
40°-50°	2394.0	20.4
50°-60°	2844.9	24.3
60°-70°	1576.2	13.5
70°-80°	392.5	3.4
80°-90°	44.6	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°	11707.3	100.0
0°-180°	11707.3	100.0



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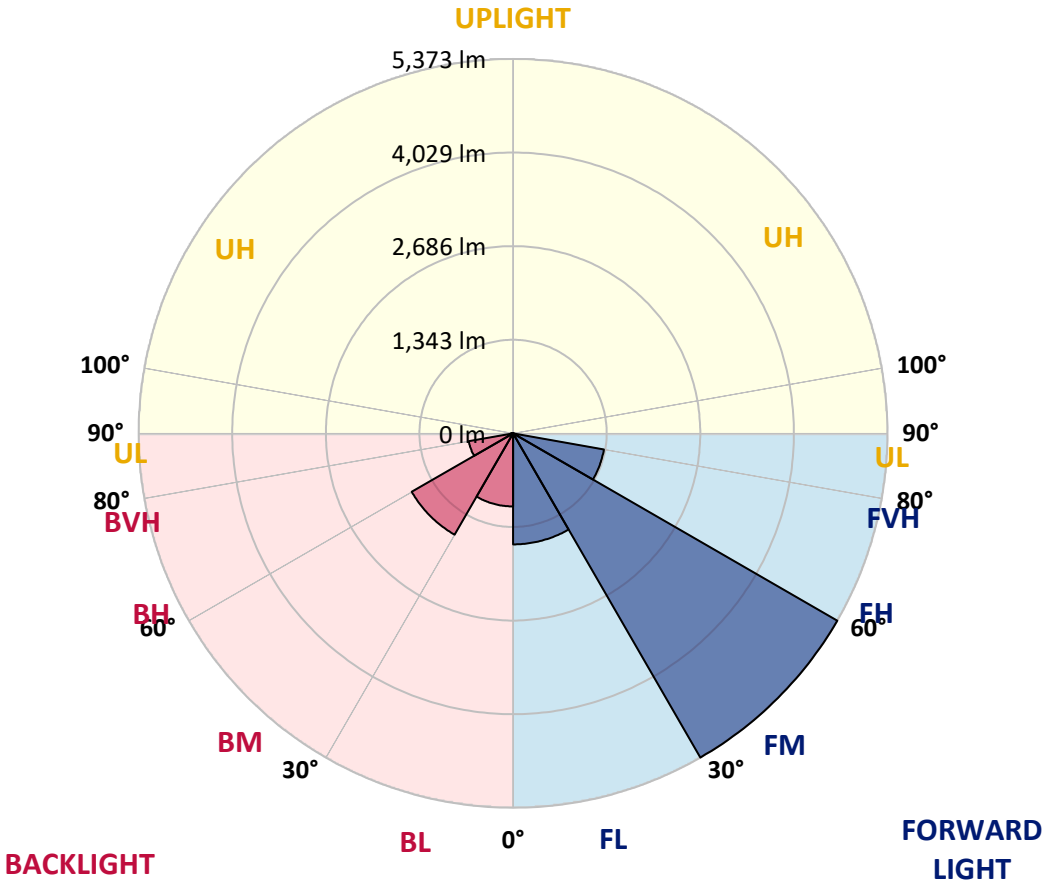
REPORT NUMBER: P635504
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1593.6	13.6			
FM	(30°-60°)	5372.7	45.9			
FH	(60°-80°)	1323.7	11.3			G1/1800
FVH	(80°-90°)	14.0	0.1			G1/100
BL	(0°-30°)	1048.8	9.0	B3/2500		
BM	(30°-60°)	1679.0	14.3	B2/2500		
BH	(60°-80°)	645.0	5.5	B2/1000		G2/1000
BVH	(80°-90°)	30.7	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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REPORT NUMBER: P635504
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	*4494.7*	4494.7	4494.7	4494.7	4494.7
2.5°	4410.5	4419.5	4425.5	4446.6	4464.6	4480.7	*4497.7*	4497.7	4496.7	4493.7	4487.7
5°	4236.1	4246.2	4260.2	4289.3	4328.3	4356.4	*4402.5*	4406.5	4426.6	4434.6	4430.6
7.5°	4033.7	4036.7	4054.7	4092.8	4155.0	4205.1	*4271.2*	4279.2	4327.3	4355.4	4350.4
10°	3812.2	3802.2	3834.3	3890.4	3971.6	4055.8	*4140.9*	4148.0	4225.1	4278.2	4274.2
12.5°	3609.8	3610.8	3642.9	3711.0	3812.2	3916.5	*4030.7*	4046.7	4141.9	4210.1	4203.1
15°	3440.4	3444.4	3483.5	3560.7	3675.9	3800.2	*3942.5*	3957.5	4077.8	4168.0	4148.0
17.5°	3305.1	3309.1	3343.2	3431.4	3554.7	3705.0	*3878.4*	3893.4	4042.7	4150.0	4108.9
20°	3211.9	3209.9	3243.0	3327.2	3454.5	3617.8	*3822.2*	3844.3	4031.7	4157.0	4082.8
22.5°	3173.8	3172.8	3196.9	3266.0	3385.3	3550.7	*3788.2*	3818.2	4043.7	4188.0	4066.8
25°	3192.9	3188.9	3209.9	3261.0	3356.2	3524.6	*3798.2*	3830.3	4094.8	4252.2	4069.8
27.5°	3252.0	3247.0	3265.0	3311.1	3383.3	3551.7	*3868.3*	3905.4	4203.1	4369.4	4109.9
30°	3342.2	3339.2	3357.2	3401.3	3464.5	3641.9	*4002.6*	4044.7	4370.4	4551.8	4197.1
32.5°	3447.4	3442.4	3474.5	3525.6	3598.8	3806.2	*4183.0*	4238.1	4568.9	4786.3	4343.4
35°	3565.7	3561.7	3605.8	3679.9	3785.2	4034.7	*4401.5*	4461.6	4771.3	5051.9	4537.8
37.5°	3680.9	3680.9	3766.1	3876.4	4008.6	4283.2	*4606.9*	4645.0	4911.6	5287.4	4746.2
40°	3783.2	3789.2	3917.5	4082.8	4251.2	4507.7	*4742.2*	4774.3	4973.7	5449.8	4927.6
42.5°	3896.4	3901.4	4050.7	4267.2	4467.6	4689.1	*4824.4*	4840.4	4985.8	5530.9	5055.9
45°	3986.6	3993.6	4179.0	4410.5	4656.0	4825.4	*4889.6*	4903.6	5002.8	5575.0	5149.1
47.5°	4033.7	4043.7	4256.2	4525.8	4783.3	4947.7	*4996.8*	5002.8	5072.9	5652.2	5261.4
50°	4025.7	4045.7	4285.2	4582.9	4877.5	5070.9	*5169.2*	5179.2	5216.3	5765.4	5392.6
52.5°	4096.8	4105.9	4347.4	4651.0	5011.8	5298.4	*5468.8*	5482.8	5465.8	5850.6	5470.8
55°	3978.6	4021.7	4270.2	4641.0	5216.3	5650.2	*5912.8*	5905.7	5692.3	5945.8	5601.1
57.5°	*3217.9*	*3281.1*	*3508.6*	*3939.5*	*4879.5*	*5896.7*	*6244.5*	*6227.4*	*5867.7*	*6019.0*	*5742.4*
60°	2227.8	2237.8	2443.3	2748.9	3766.1	5209.2	*6147.3*	6184.3	5899.7	5926.8	5480.8
62.5°	1781.8	1778.8	1797.9	1805.9	2395.2	3661.9	*4852.5*	4987.8	4901.6	4618.0	3884.4
65°	1521.3	1532.3	1588.4	1559.4	1563.4	2062.5	*2899.3*	2918.3	2858.2	2755.9	2054.4
67.5°	1190.6	1209.6	1308.8	1422.1	1386.0	1327.9	*1504.2*	1495.2	1178.5	912.0	753.6
70°	745.6	757.6	863.9	1116.4	1206.6	1090.4	*967.1*	963.1	631.4	519.1	569.2
72.5°	434.9	436.9	467.0	622.3	800.7	745.6	*711.5*	685.5	405.9	413.9	454.0
75°	239.5	239.5	238.5	268.6	315.7	279.6	*270.6*	263.6	271.6	307.7	337.7
77.5°	50.1	51.1	54.1	71.2	92.2	112.2	*141.3*	142.3	177.4	205.4	229.5
80°	23.0	24.1	30.1	38.1	49.1	65.1	*86.2*	87.2	107.2	129.3	145.3
82.5°	12.0	13.0	16.0	20.0	26.1	34.1	*48.1*	48.1	64.1	76.2	86.2
85°	4.0	4.0	6.0	8.0	11.0	14.0	*19.0*	19.0	28.1	37.1	43.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	*4.0*	4.0	5.0	6.0	10.0
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: P635504
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7
2.5°	4474.7	4443.6	4444.6	4450.6	4431.6	4402.5	4383.5	4359.4	4344.4	4341.4	4352.4
5°	4410.5	4374.4	4349.4	4323.3	4269.2	4205.1	4155.0	4113.9	4086.8	4076.8	4064.8
7.5°	4322.3	4275.2	4212.1	4138.9	4040.7	3926.5	3846.3	3771.1	3719.0	3704.0	3697.0
10°	4234.1	4166.0	4053.7	3917.5	3754.1	3599.8	3454.5	3343.2	3255.0	3204.9	3220.9
12.5°	4142.9	4058.8	3883.4	3673.9	3446.4	3213.9	3023.5	2839.1	2696.8	2625.7	2604.6
15°	4062.8	3948.5	3704.0	3420.4	3117.7	2825.1	2549.5	2272.9	2092.5	1994.3	1967.2
17.5°	3994.6	3846.3	3514.6	3161.8	2800.0	2383.1	2044.4	1787.9	1664.6	1610.5	1606.5
20°	3927.5	3746.1	3327.2	2883.2	2433.3	1966.2	1663.6	1543.3	1499.2	1480.2	1479.2
22.5°	3867.3	3640.9	3129.8	2604.6	2068.5	1652.6	1486.2	1434.1	1422.1	1422.1	1420.1
25°	3816.2	3535.6	2927.3	2309.0	1738.8	1471.2	1394.0	1372.0	1377.0	1386.0	1387.0
27.5°	3795.2	3453.5	2731.9	2005.3	1511.3	1365.9	1330.9	1327.9	1341.9	1355.9	1357.9
30°	3817.2	3397.3	2531.5	1714.7	1375.0	1301.8	1285.8	1291.8	1308.8	1322.9	1322.9
32.5°	3885.4	3369.3	2327.0	1502.2	1295.8	1256.7	1251.7	1257.7	1270.7	1278.8	1279.8
35°	4000.6	3380.3	2115.6	1358.9	1244.7	1223.6	1222.6	1226.6	1231.7	1236.7	1237.7
37.5°	4145.9	3429.4	1889.1	1275.8	1211.6	1199.6	1197.6	1196.6	1197.6	1197.6	1198.6
40°	4288.3	3503.6	1686.6	1226.6	1188.6	1178.5	1173.5	1166.5	1165.5	1163.5	1162.5
42.5°	4393.5	3560.7	1525.3	1191.6	1167.5	1155.5	1149.5	1138.5	1137.5	1136.5	1135.4
45°	4472.7	3608.8	1391.0	1157.5	1145.5	1134.4	1121.4	1111.4	1113.4	1115.4	1115.4
47.5°	4561.8	3650.9	1292.8	1125.4	1118.4	1107.4	1091.4	1084.3	1091.4	1098.4	1098.4
50°	4670.1	3710.0	1212.6	1093.4	1090.4	1077.3	1063.3	1060.3	1068.3	1078.3	1078.3
52.5°	4749.2	3761.1	1155.5	1061.3	1061.3	1044.3	1032.2	1031.2	1040.2	1050.3	1051.3
55°	4897.6	3880.4	1135.4	1024.2	1020.2	1007.2	998.2	991.1	1002.2	1011.2	1011.2
57.5°	*5064.9*	*4038.7*	*1140.5*	*971.1*	*966.1*	*962.1*	*955.1*	*947.0*	*950.0*	*960.1*	*961.1*
60°	4710.2	3732.1	1085.3	918.0	915.0	913.0	904.0	889.9	893.9	901.9	902.9
62.5°	3290.1	2480.4	877.9	851.8	861.9	860.9	848.8	832.8	833.8	844.8	844.8
65°	1707.7	1341.9	770.7	791.7	806.7	800.7	780.7	766.7	764.6	778.7	775.7
67.5°	736.6	732.6	701.5	728.6	744.6	731.6	710.5	687.5	689.5	694.5	690.5
70°	593.3	611.3	624.3	653.4	666.4	642.4	619.3	606.3	595.3	594.3	587.3
72.5°	474.0	499.1	528.1	558.2	562.2	538.2	509.1	497.1	480.0	479.0	472.0
75°	356.8	377.8	400.9	424.9	424.9	401.9	382.8	376.8	356.8	350.8	344.7
77.5°	243.5	256.6	274.6	280.6	286.6	277.6	258.6	248.5	225.5	219.5	211.5
80°	153.3	162.4	173.4	177.4	183.4	172.4	157.3	146.3	130.3	125.3	121.3
82.5°	92.2	98.2	105.2	107.2	112.2	104.2	90.2	82.2	73.2	69.1	66.1
85°	47.1	50.1	54.1	55.1	54.1	46.1	41.1	37.1	31.1	30.1	28.1
87.5°	12.0	14.0	15.0	14.0	13.0	10.0	7.0	5.0	2.0	2.0	1.0
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

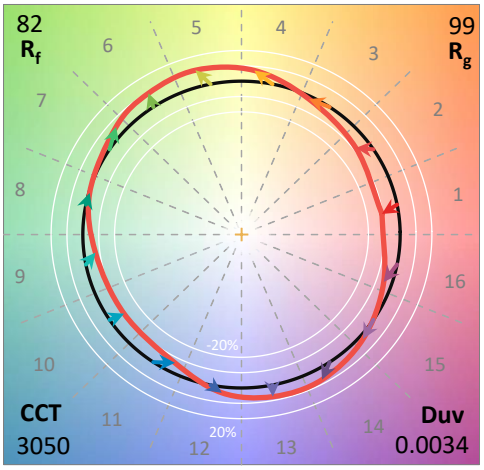
Test Information

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

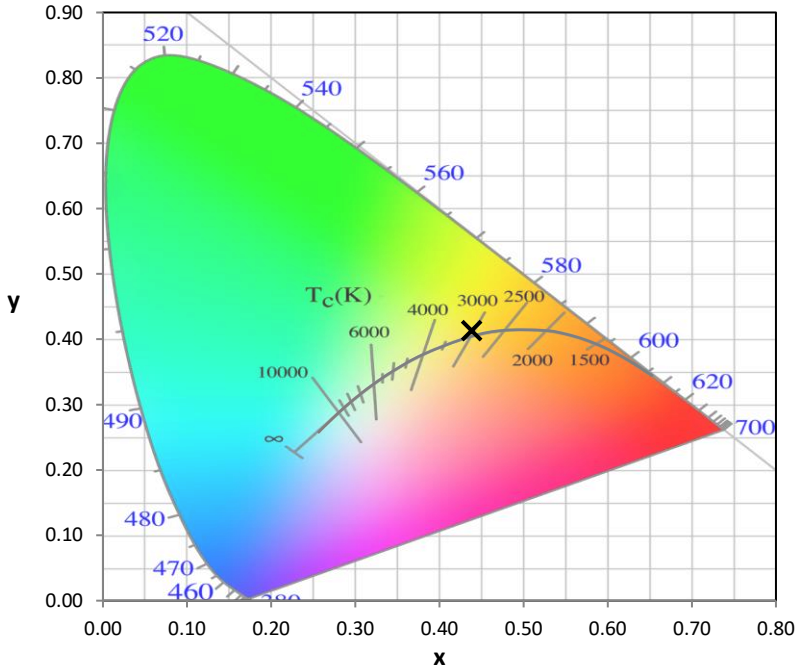
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

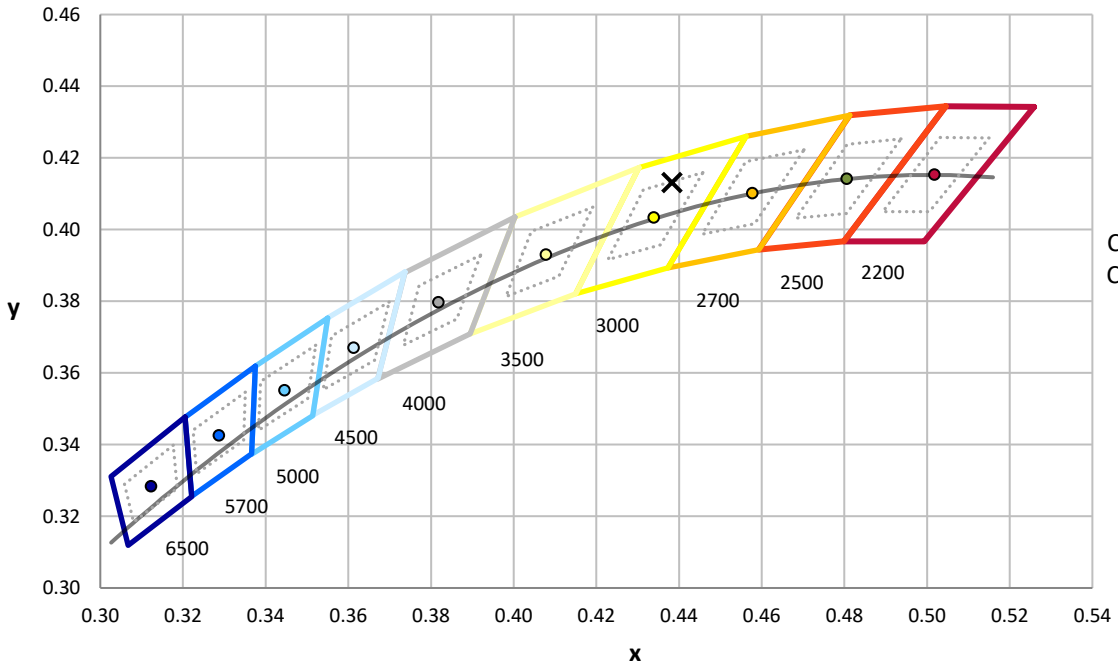
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

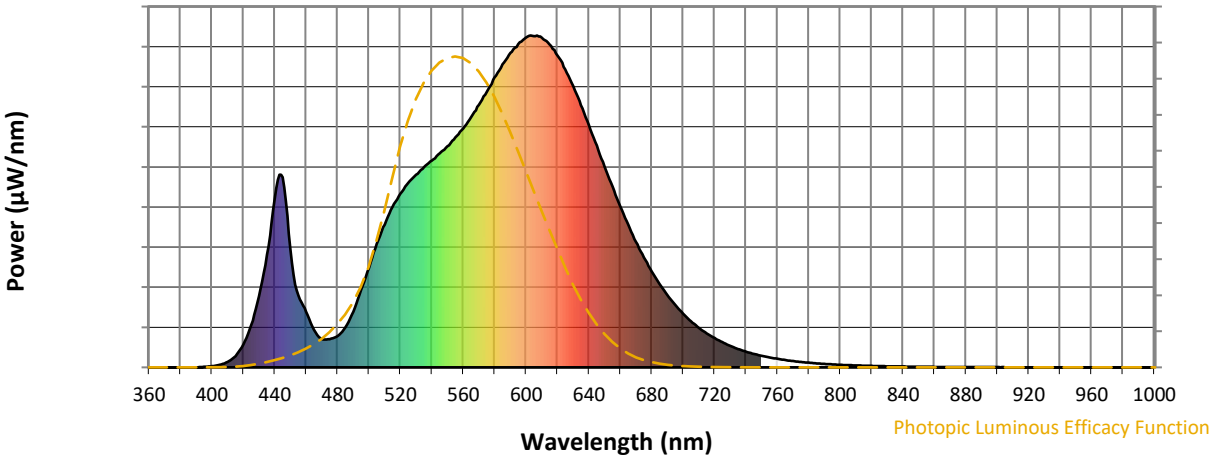


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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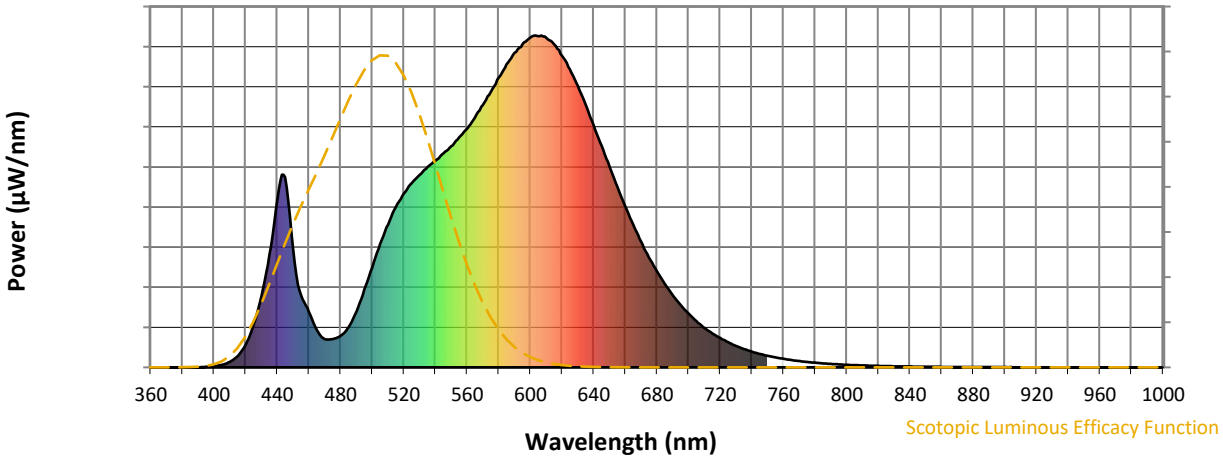
Scotopic Flux vs. Wavelength



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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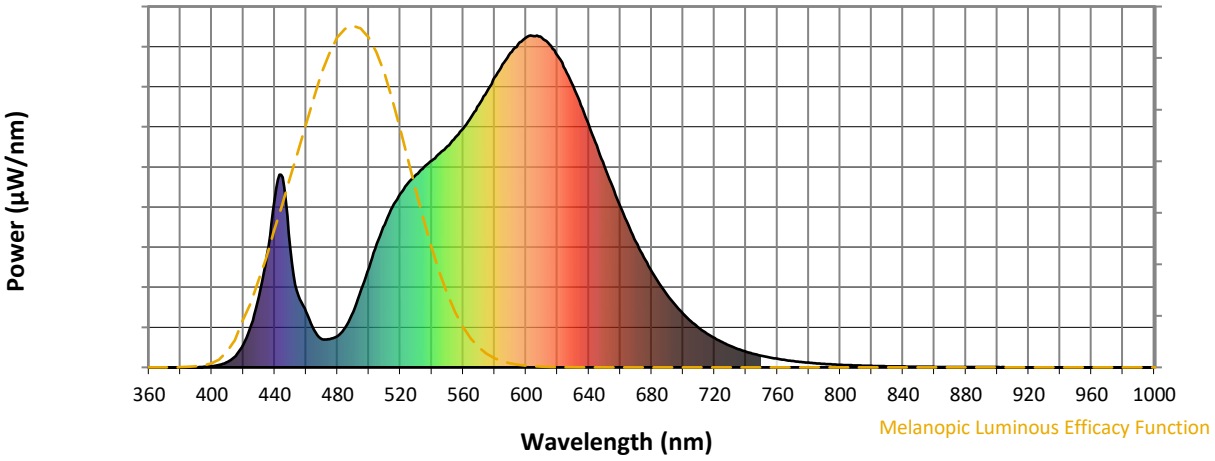
Melanopic Flux vs. Wavelength



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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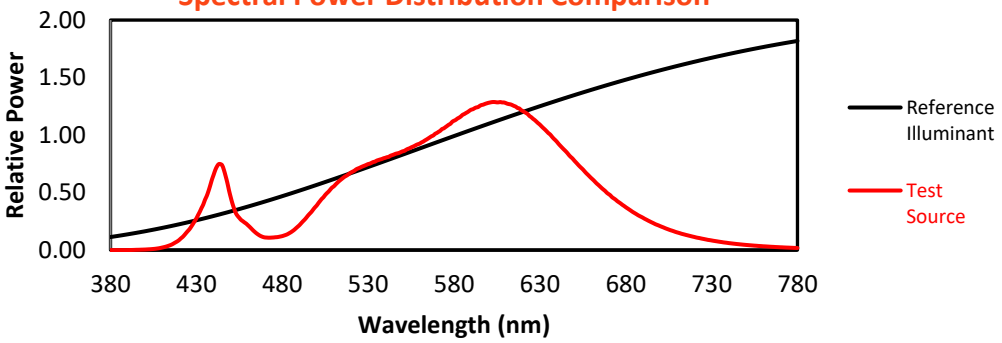
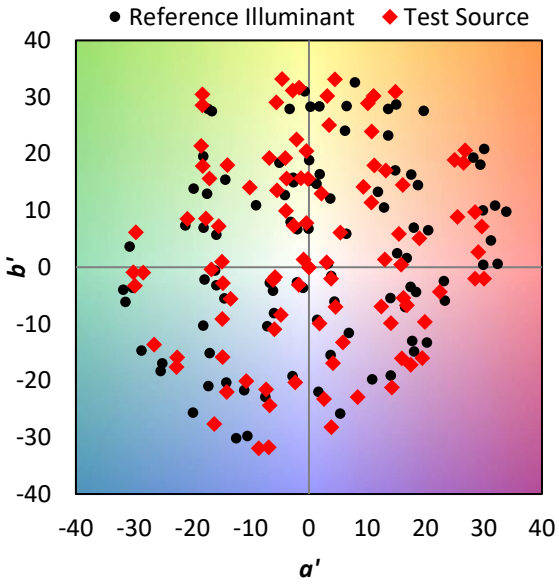
Summary

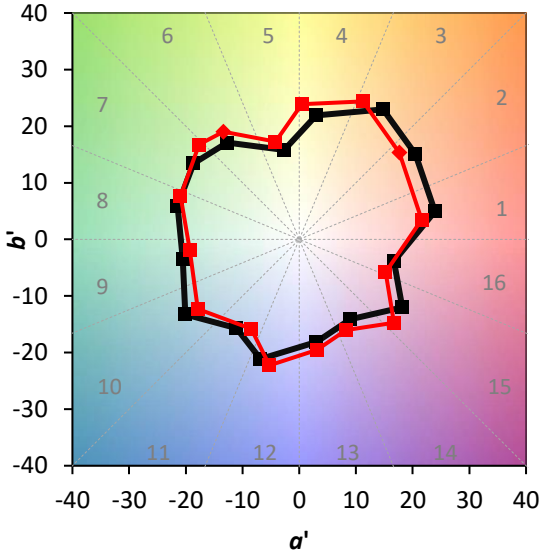
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

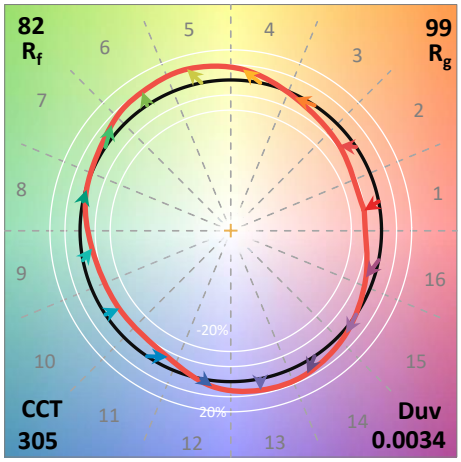
Spectral Power Distribution Comparison

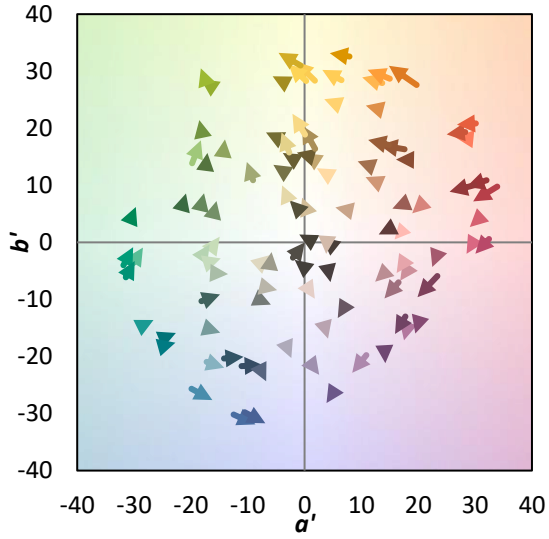


Color Vector Graphics









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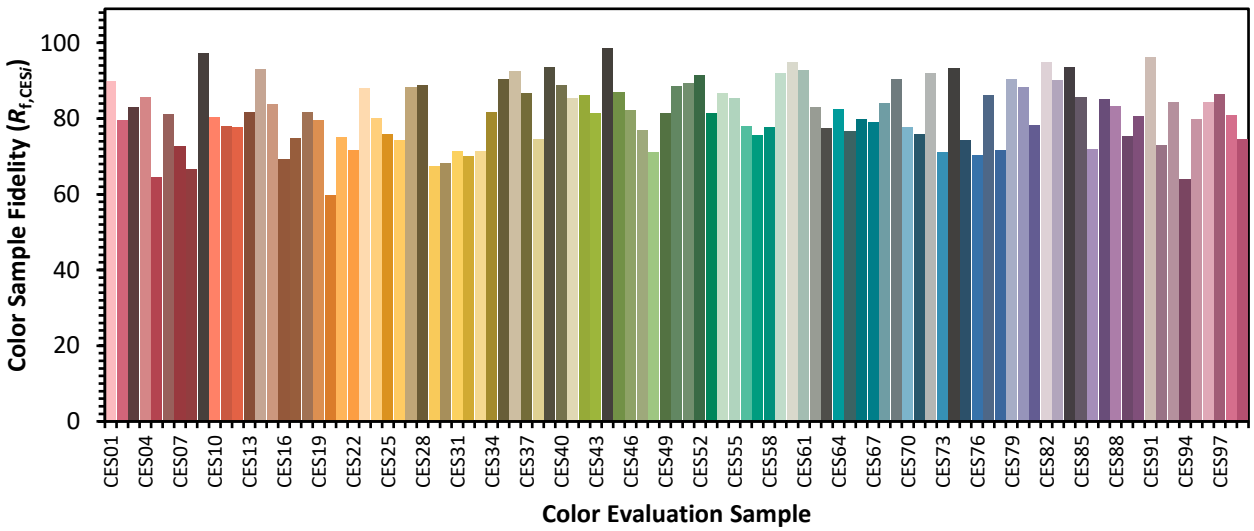
Individual Sample Fidelity Index ($R_{f,i}$)

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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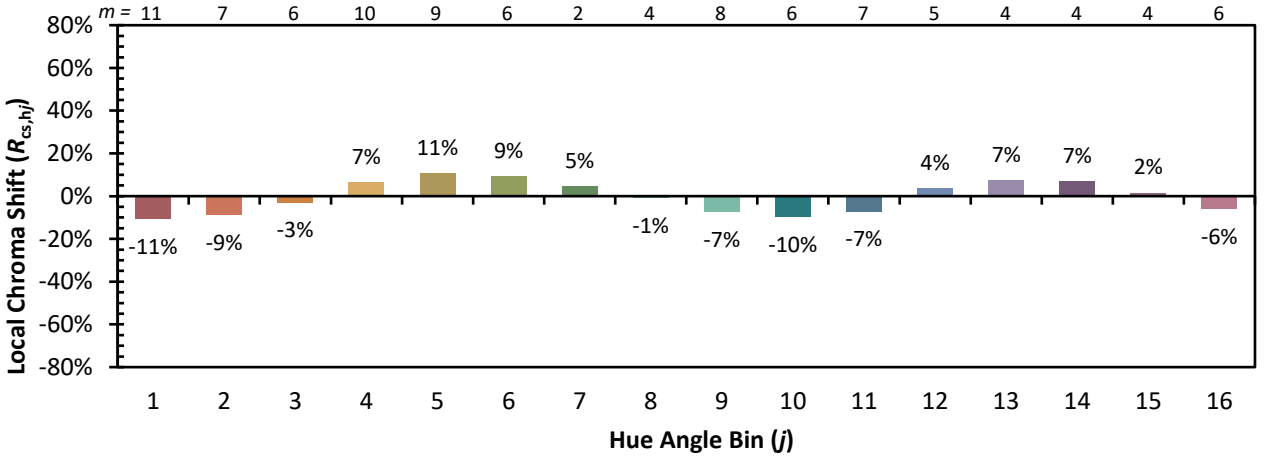
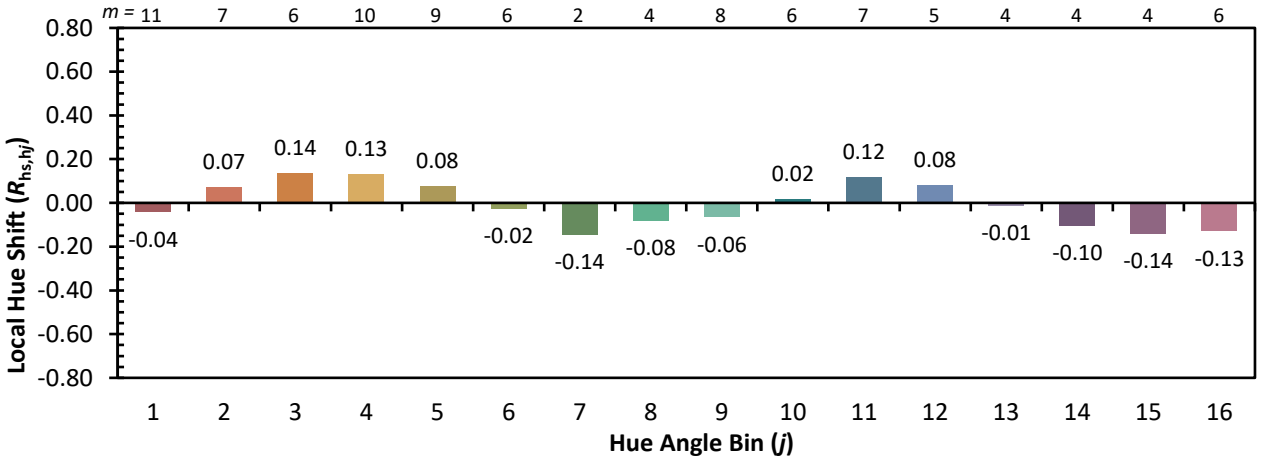
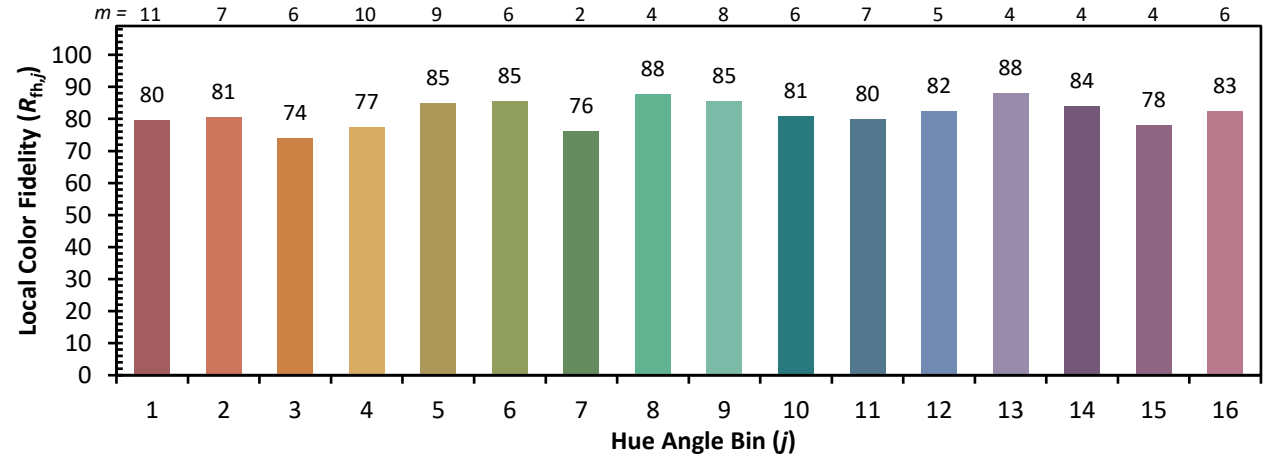
Color Rendition by Hue-Angle Bin







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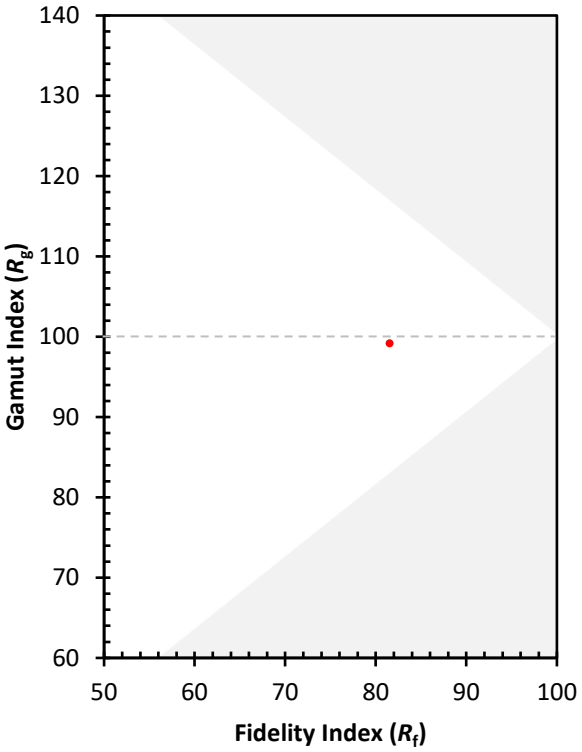
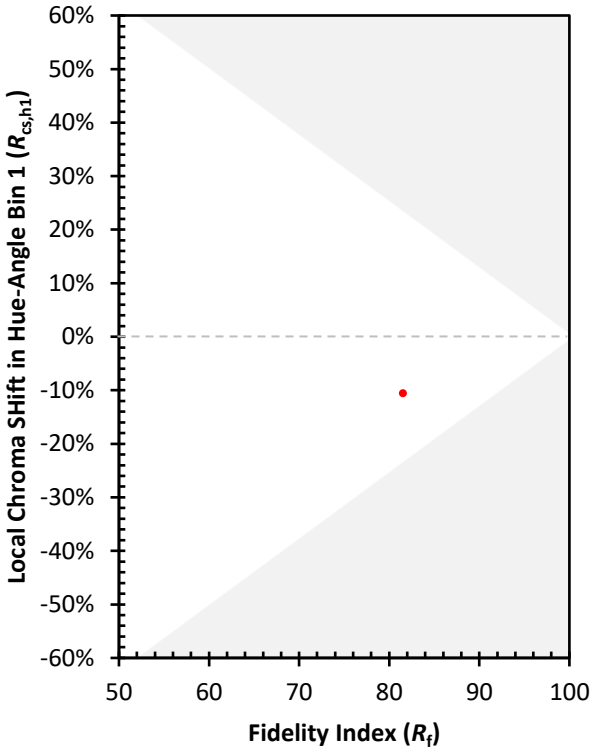
Measure Comparisons





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