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: P641939

Luminaire Tested: GWS-SA6B-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:	P641939
	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-SA6B-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14085.3 lumens
Efficiency:	N/A
Efficacy:	101.4 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):	138.9
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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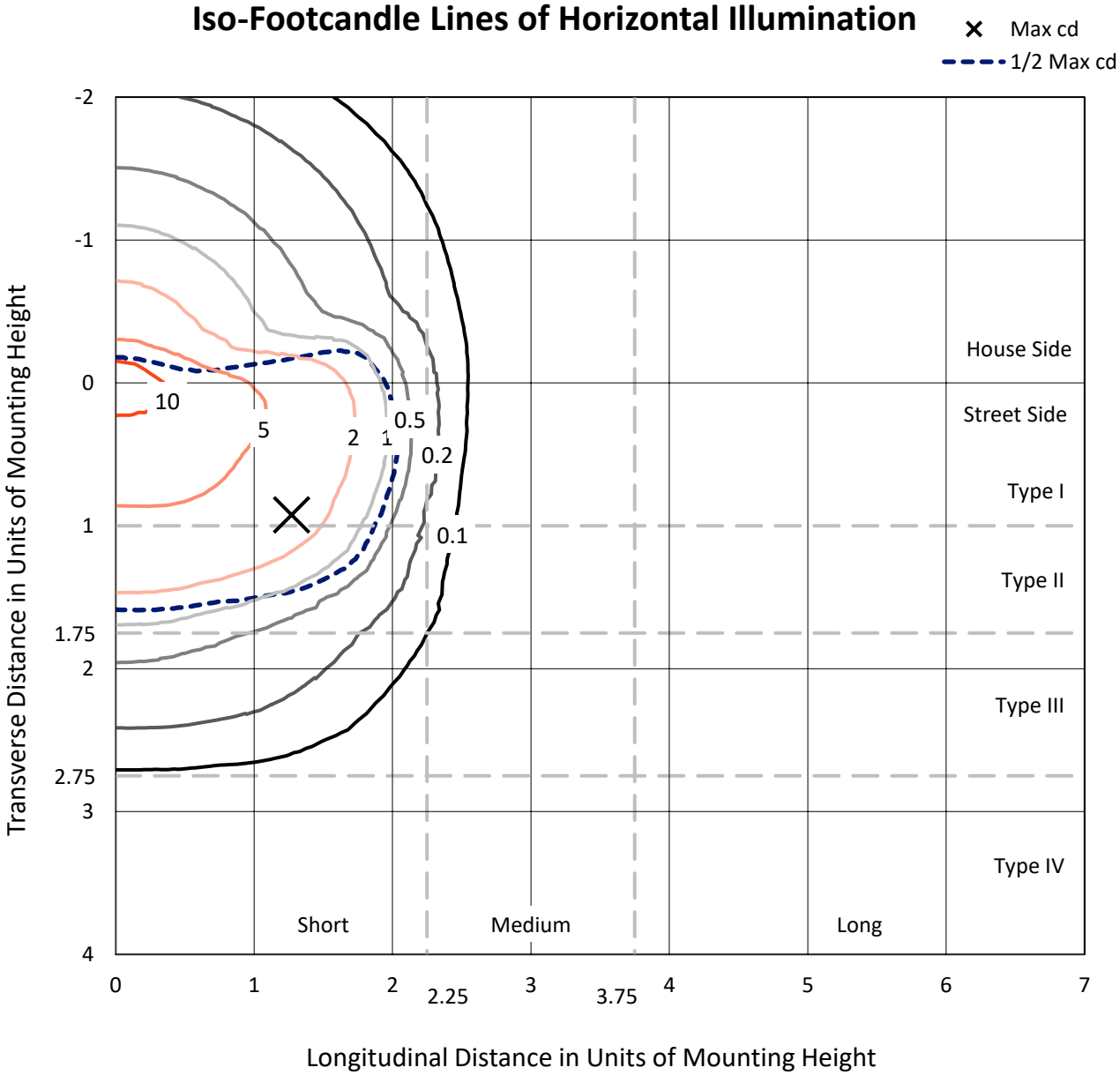
Scaled Data Report

REPORT NUMBER: P641939
CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Short - N/A

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REPORT NUMBER: P641939
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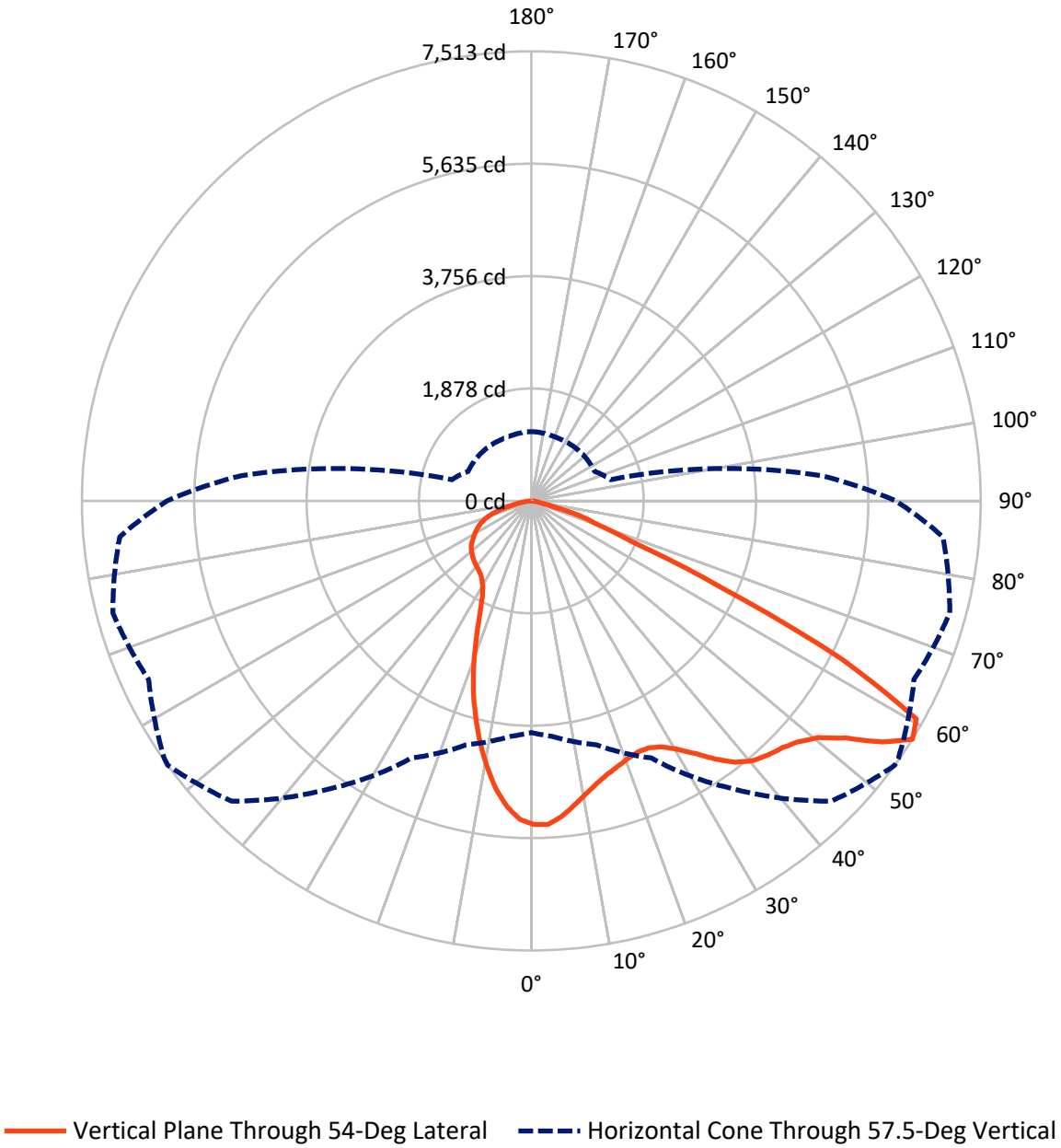
Luminous Intensity Polar Plot



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REPORT NUMBER: P641939
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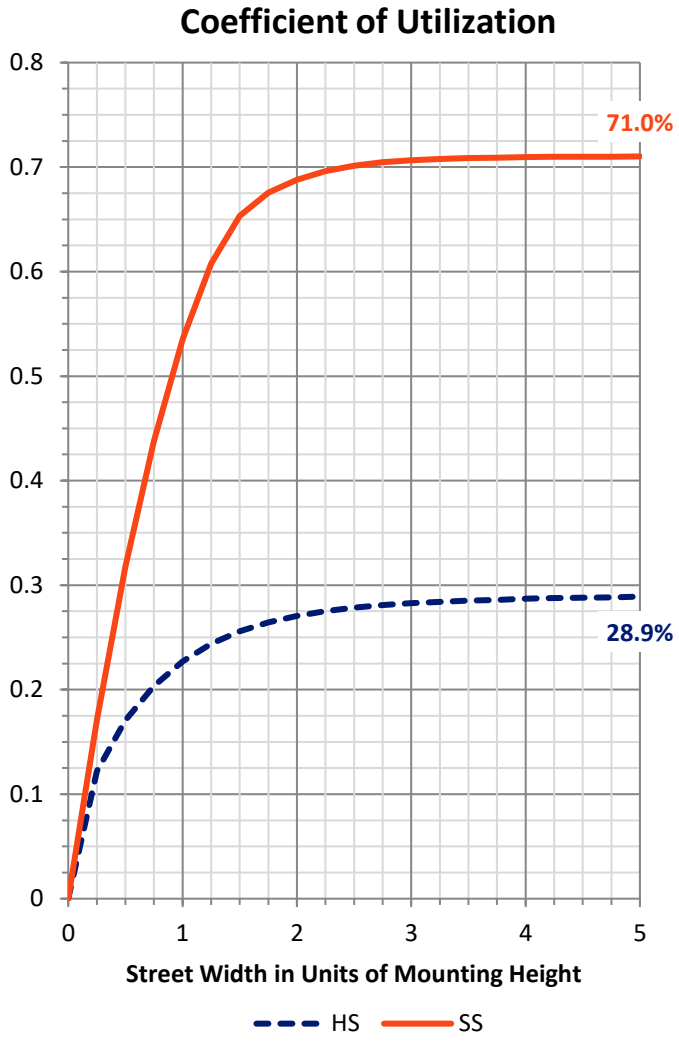
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4094.8	0.0	4094.8
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	9990.5	0.0	9990.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	14085.3	0.0	14085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	3.4
10°-20°	1134.2	8.1
20°-30°	1569.6	11.1
30°-40°	2180.9	15.5
40°-50°	2880.3	20.4
50°-60°	3422.8	24.3
60°-70°	1896.3	13.5
70°-80°	472.2	3.4
80°-90°	53.7	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°	14085.3	100.0
0°-180°	14085.3	100.0



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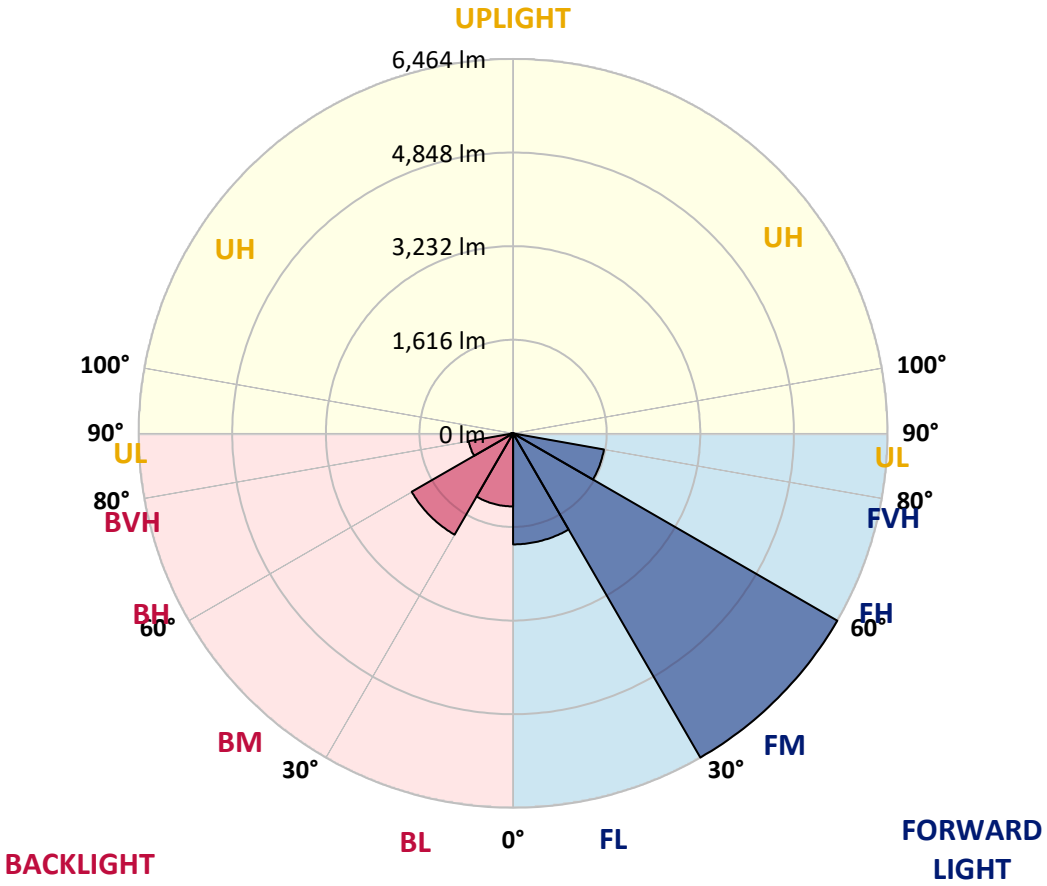
REPORT NUMBER: P641939
CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1917.2	13.6			
FM	(30°-60°)	6464.0	45.9			
FH	(60°-80°)	1592.5	11.3			G1/1800
FVH	(80°-90°)	16.8	0.1			G1/100
BL	(0°-30°)	1261.8	9.0	B3/2500		
BM	(30°-60°)	2020.0	14.3	B2/2500		
BH	(60°-80°)	776.0	5.5	B2/1000		G2/1000
BVH	(80°-90°)	36.9	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: P641939
CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7
2.5°	5306.4	5317.2	5324.5	5349.8	5371.5	5390.8	5411.3	5411.3	5410.1	5406.5	5399.2
5°	5096.6	5108.6	5125.5	5160.5	5207.5	5241.3	5296.7	5301.6	5325.7	5335.3	5330.5
7.5°	4853.0	4856.7	4878.4	4924.2	4998.9	5059.2	5138.8	5148.4	5206.3	5240.1	5234.0
10°	4586.6	4574.5	4613.1	4680.6	4778.3	4879.6	4982.0	4990.5	5083.3	5147.2	5142.4
12.5°	4343.0	4344.2	4382.8	4464.8	4586.6	4712.0	4849.4	4868.7	4983.3	5065.2	5056.8
15°	4139.2	4144.1	4191.1	4283.9	4422.6	4572.1	4743.3	4761.4	4906.1	5014.6	4990.5
17.5°	3976.5	3981.3	4022.3	4128.4	4276.7	4457.6	4666.1	4684.2	4863.9	4992.9	4943.5
20°	3864.3	3861.9	3901.7	4003.0	4156.1	4352.7	4598.6	4625.2	4850.6	5001.3	4912.1
22.5°	3818.5	3817.3	3846.3	3929.5	4072.9	4271.9	4557.6	4593.8	4865.1	5038.7	4892.8
25°	3841.4	3836.6	3861.9	3923.4	4038.0	4240.5	4569.7	4608.3	4926.6	5115.9	4896.4
27.5°	3912.6	3906.5	3928.2	3983.7	4070.5	4273.1	4654.1	4698.7	5056.8	5257.0	4944.7
30°	4021.1	4017.5	4039.2	4092.2	4168.2	4381.6	4815.7	4866.3	5258.2	5476.4	5049.6
32.5°	4147.7	4141.7	4180.2	4241.7	4329.8	4579.3	5032.7	5099.0	5496.9	5758.5	5225.6
35°	4290.0	4285.1	4338.2	4427.4	4554.0	4854.2	5295.5	5367.9	5740.4	6078.0	5459.5
37.5°	4428.6	4428.6	4531.1	4663.7	4822.9	5153.3	5542.7	5588.5	5909.2	6361.4	5710.3
40°	4551.6	4558.8	4713.2	4912.1	5114.7	5423.3	5705.5	5744.1	5984.0	6556.7	5928.5
42.5°	4687.9	4693.9	4873.5	5134.0	5375.1	5641.6	5804.3	5823.6	5998.5	6654.4	6082.9
45°	4796.4	4804.8	5027.9	5306.4	5601.8	5805.6	5882.7	5899.6	6019.0	6707.4	6195.0
47.5°	4853.0	4865.1	5120.7	5445.0	5754.9	5952.7	6011.7	6019.0	6103.4	6800.3	6330.0
50°	4843.4	4867.5	5155.7	5513.8	5868.3	6101.0	6219.1	6231.2	6275.8	6936.5	6488.0
52.5°	4929.0	4939.8	5230.4	5595.8	6029.8	6374.7	6579.6	6596.5	6576.0	7039.0	6582.0
55°	4786.7	4838.6	5137.6	5583.7	6275.8	6797.9	7113.8	7105.3	6848.5	7153.6	6738.8
57.5°	3871.6	3947.5	4221.2	4739.7	5870.7	7094.5	7512.9	7492.4	7059.5	7241.6	6908.8
60°	2680.3	2692.4	2939.6	3307.3	4531.1	6267.3	7395.9	7440.5	7098.1	7130.6	6594.1
62.5°	2143.8	2140.2	2163.1	2172.7	2881.7	4405.7	5838.1	6000.9	5897.2	5556.0	4673.4
65°	1830.3	1843.6	1911.1	1876.1	1880.9	2481.4	3488.2	3511.1	3438.7	3315.7	2471.7
67.5°	1432.4	1455.3	1574.7	1710.9	1667.5	1597.6	1809.8	1798.9	1417.9	1097.2	906.7
70°	897.1	911.5	1039.3	1343.2	1451.7	1311.8	1163.5	1158.7	759.6	624.6	684.9
72.5°	523.3	525.7	561.9	748.8	963.4	897.1	856.1	824.7	488.3	498.0	546.2
75°	288.2	288.2	287.0	323.1	379.8	336.4	325.5	317.1	326.8	370.2	406.3
77.5°	60.3	61.5	65.1	85.6	110.9	135.0	170.0	171.2	213.4	247.2	276.1
80°	27.7	28.9	36.2	45.8	59.1	78.4	103.7	104.9	129.0	155.5	174.8
82.5°	14.5	15.7	19.3	24.1	31.3	41.0	57.9	57.9	77.2	91.6	103.7
85°	4.8	4.8	7.2	9.6	13.3	16.9	22.9	22.9	33.8	44.6	51.8
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	4.8	4.8	6.0	7.2	12.1
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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Scaled Data Report

REPORT NUMBER: P641939
CATALOG NUMBER: GWS-SA6B-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7	5407.7
2.5°	5383.6	5346.2	5347.4	5354.6	5331.7	5296.7	5273.8	5244.9	5226.8	5223.2	5236.5
5°	5306.4	5263.0	5232.8	5201.5	5136.4	5059.2	4998.9	4949.5	4916.9	4904.9	4890.4
7.5°	5200.3	5143.6	5067.7	4979.6	4861.5	4724.0	4627.6	4537.1	4474.4	4456.4	4447.9
10°	5094.2	5012.2	4877.1	4713.2	4516.6	4331.0	4156.1	4022.3	3916.2	3855.9	3875.2
12.5°	4984.5	4883.2	4672.2	4420.2	4146.5	3866.8	3637.7	3415.8	3244.6	3159.0	3133.7
15°	4888.0	4750.5	4456.4	4115.1	3751.0	3398.9	3067.4	2734.6	2517.5	2399.4	2366.8
17.5°	4806.0	4627.6	4228.5	3804.1	3368.8	2867.2	2459.7	2151.0	2002.7	1937.6	1932.8
20°	4725.2	4507.0	4003.0	3468.9	2927.5	2365.6	2001.5	1856.8	1803.8	1780.9	1779.6
22.5°	4652.9	4380.4	3765.5	3133.7	2488.6	1988.2	1788.1	1725.4	1710.9	1710.9	1708.5
25°	4591.4	4253.8	3521.9	2778.0	2091.9	1770.0	1677.2	1650.6	1656.7	1667.5	1668.7
27.5°	4566.1	4154.9	3286.8	2412.7	1818.2	1643.4	1601.2	1597.6	1614.5	1631.3	1633.8
30°	4592.6	4087.4	3045.7	2063.0	1654.3	1566.2	1546.9	1554.2	1574.7	1591.6	1591.6
32.5°	4674.6	4053.6	2799.7	1807.4	1559.0	1512.0	1505.9	1513.2	1528.9	1538.5	1539.7
35°	4813.2	4066.9	2545.3	1635.0	1497.5	1472.2	1471.0	1475.8	1481.8	1487.9	1489.1
37.5°	4988.1	4126.0	2272.8	1534.9	1457.7	1443.3	1440.8	1439.6	1440.8	1440.8	1442.0
40°	5159.3	4215.2	2029.2	1475.8	1430.0	1417.9	1411.9	1403.5	1402.3	1399.8	1398.6
42.5°	5285.9	4283.9	1835.1	1433.6	1404.7	1390.2	1383.0	1369.7	1368.5	1367.3	1366.1
45°	5381.1	4341.8	1673.5	1392.6	1378.1	1364.9	1349.2	1337.1	1339.6	1342.0	1342.0
47.5°	5488.4	4392.4	1555.4	1354.0	1345.6	1332.3	1313.0	1304.6	1313.0	1321.5	1321.5
50°	5618.7	4463.6	1458.9	1315.4	1311.8	1296.2	1279.3	1275.7	1285.3	1297.4	1297.4
52.5°	5713.9	4525.1	1390.2	1276.9	1276.9	1256.4	1241.9	1240.7	1251.5	1263.6	1264.8
55°	5892.4	4668.6	1366.1	1232.2	1227.4	1211.8	1200.9	1192.5	1205.7	1216.6	1216.6
57.5°	*6093.7*	*4859.1*	*1372.1*	*1168.3*	*1162.3*	*1157.5*	*1149.1*	*1139.4*	*1143.0*	*1155.1*	*1156.3*
60°	5666.9	4490.1	1305.8	1104.4	1100.8	1098.4	1087.6	1070.7	1075.5	1085.2	1086.4
62.5°	3958.4	2984.2	1056.2	1024.9	1036.9	1035.7	1021.2	1002.0	1003.2	1016.4	1016.4
65°	2054.6	1614.5	927.2	952.5	970.6	963.4	939.3	922.4	920.0	936.8	933.2
67.5°	886.2	881.4	844.0	876.6	895.9	880.2	854.9	827.1	829.5	835.6	830.7
70°	713.8	735.5	751.2	786.1	801.8	772.9	745.1	729.5	716.2	715.0	706.6
72.5°	570.3	600.4	635.4	671.6	676.4	647.5	612.5	598.0	577.5	576.3	567.9
75°	429.2	454.6	482.3	511.2	511.2	483.5	460.6	453.4	429.2	422.0	414.8
77.5°	293.0	308.7	330.4	337.6	344.8	334.0	311.1	299.0	271.3	264.1	254.4
80°	184.5	195.3	208.6	213.4	220.6	207.4	189.3	176.0	156.7	150.7	145.9
82.5°	110.9	118.2	126.6	129.0	135.0	125.4	108.5	98.9	88.0	83.2	79.6
85°	56.7	60.3	65.1	66.3	65.1	55.5	49.4	44.6	37.4	36.2	33.8
87.5°	14.5	16.9	18.1	16.9	15.7	12.1	8.4	6.0	2.4	2.4	1.2
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

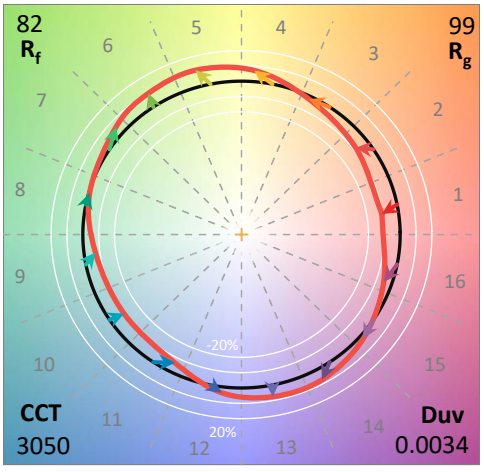
Test Information

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

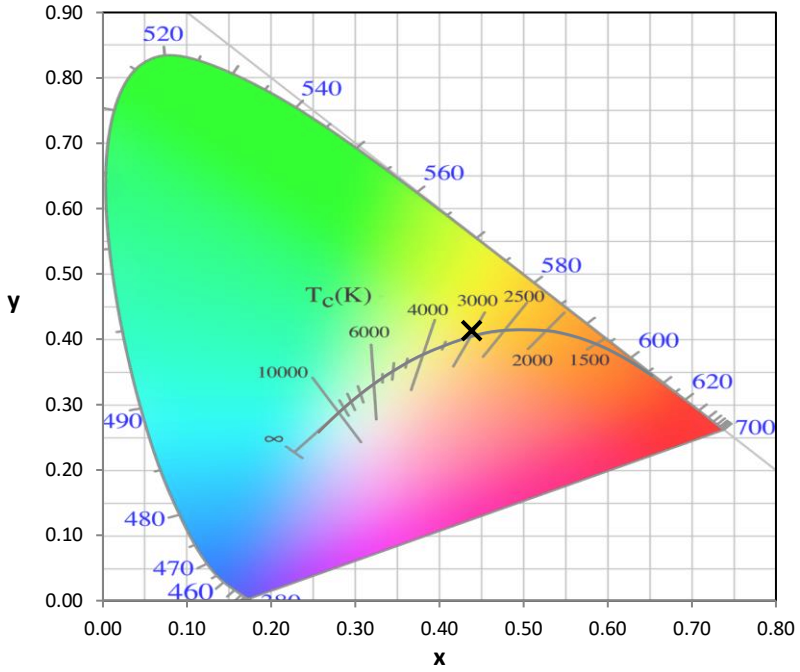
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

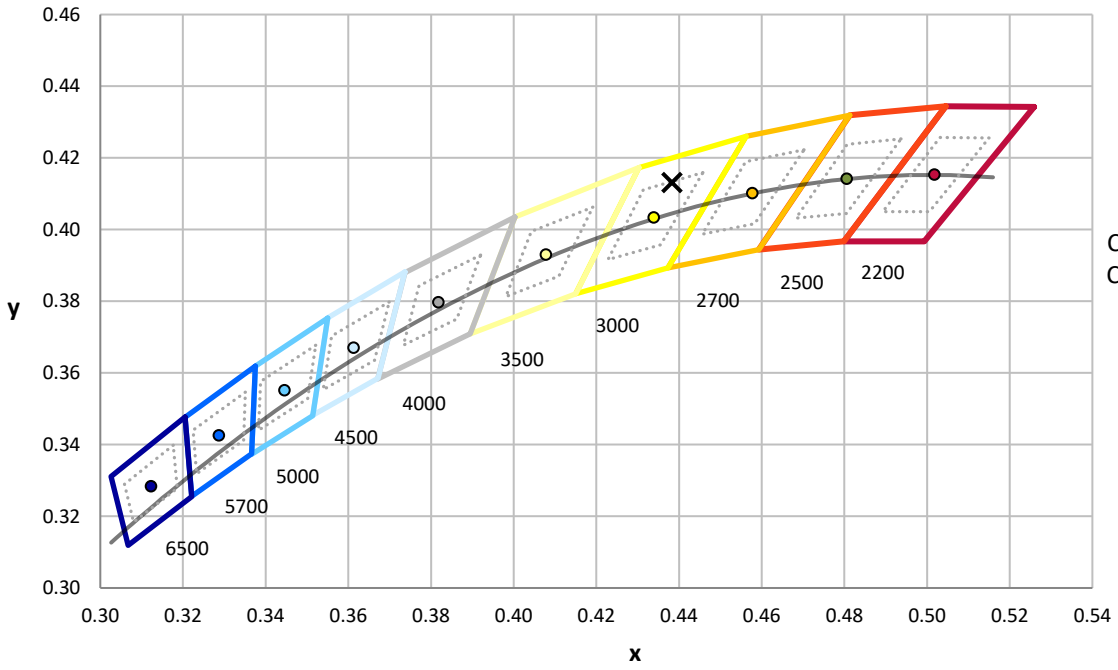
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

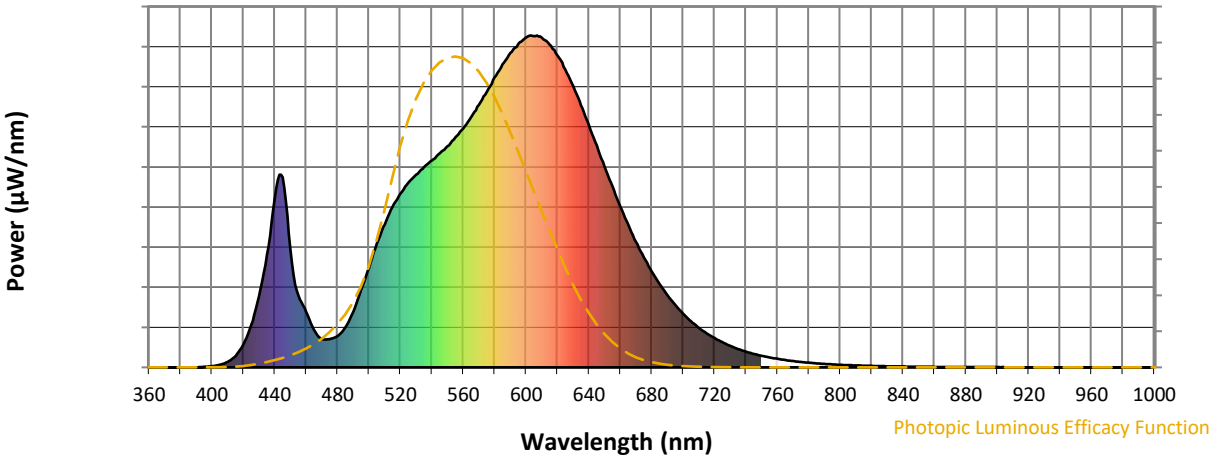


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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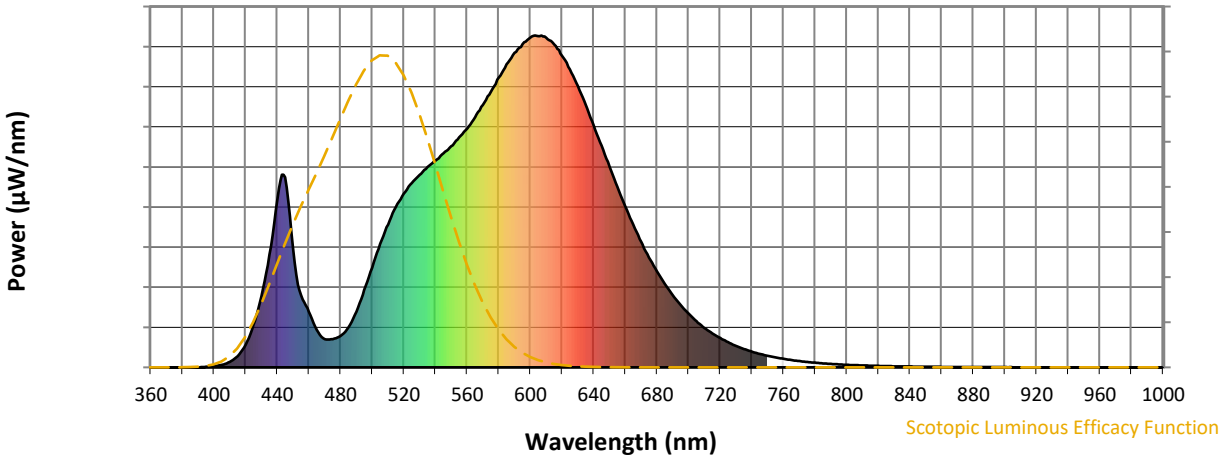
Scotopic Flux vs. Wavelength



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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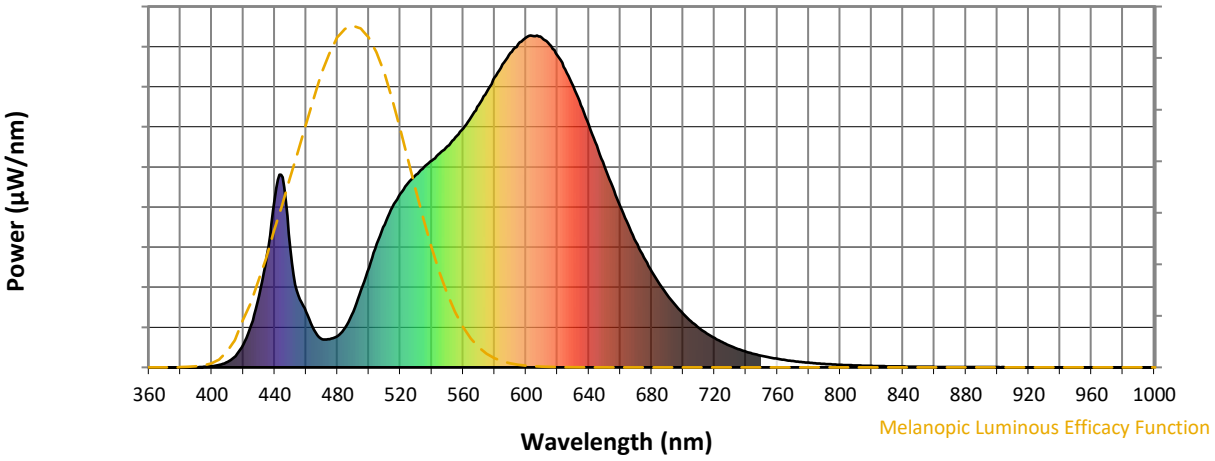
Melanopic Flux vs. Wavelength



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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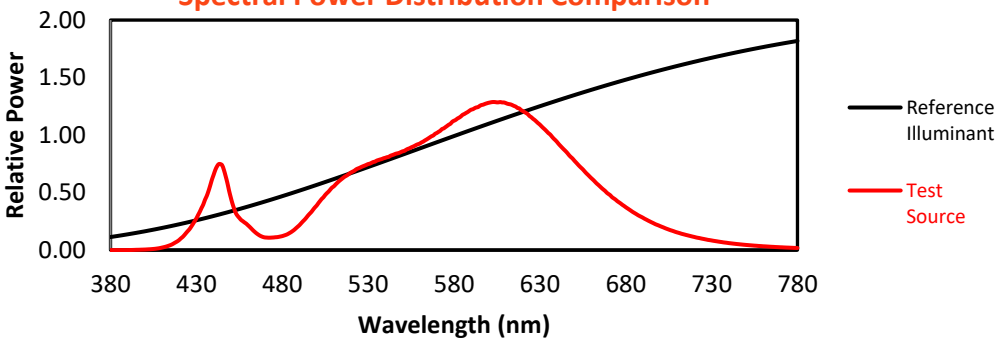
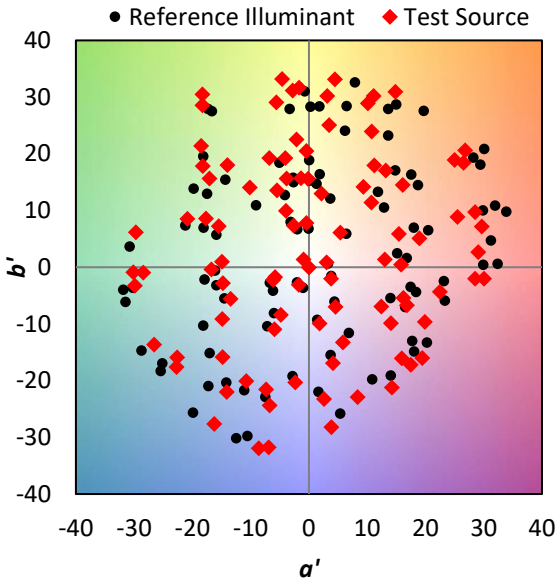
Summary

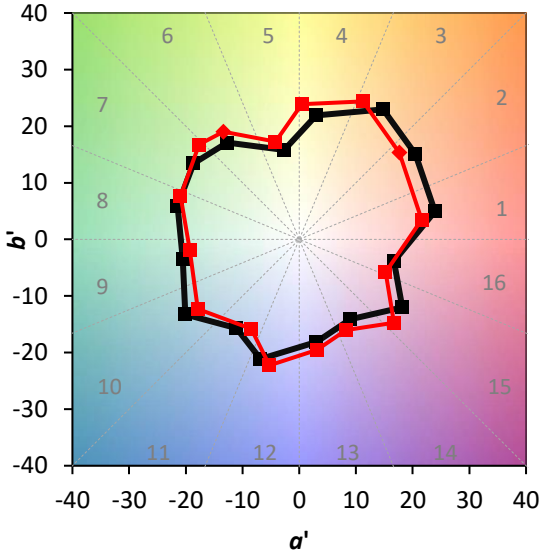
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

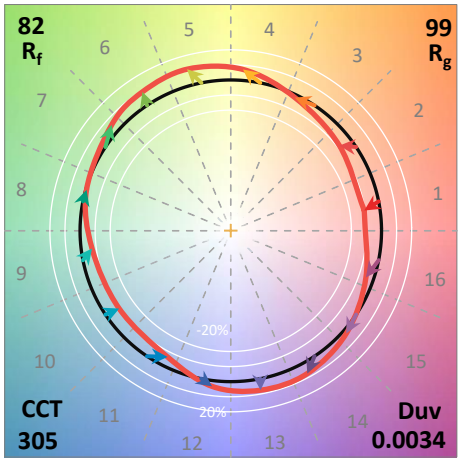
Spectral Power Distribution Comparison

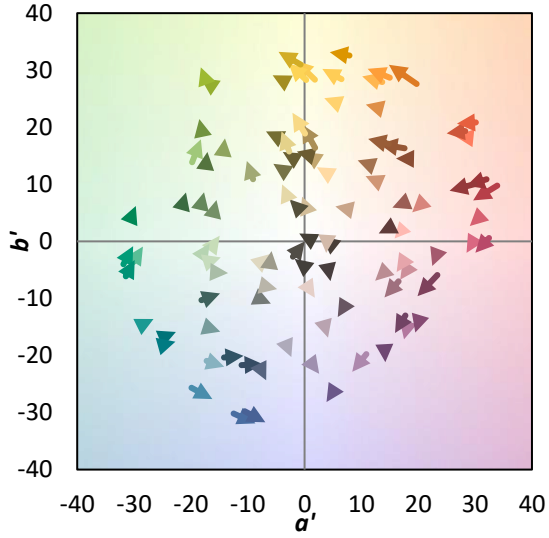


Color Vector Graphics









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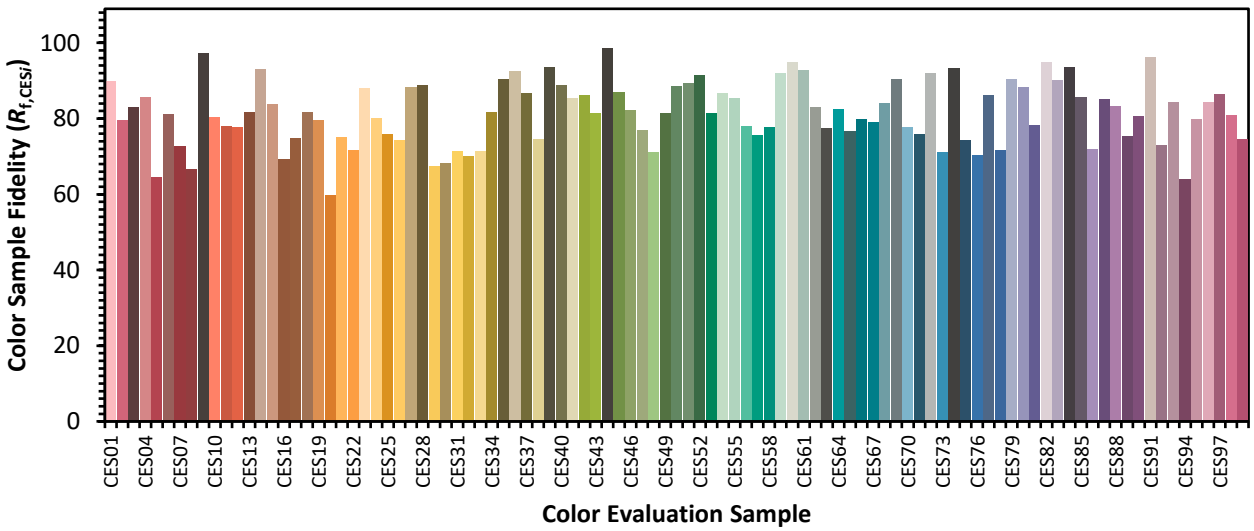
Individual Sample Fidelity Index ($R_{f,i}$)

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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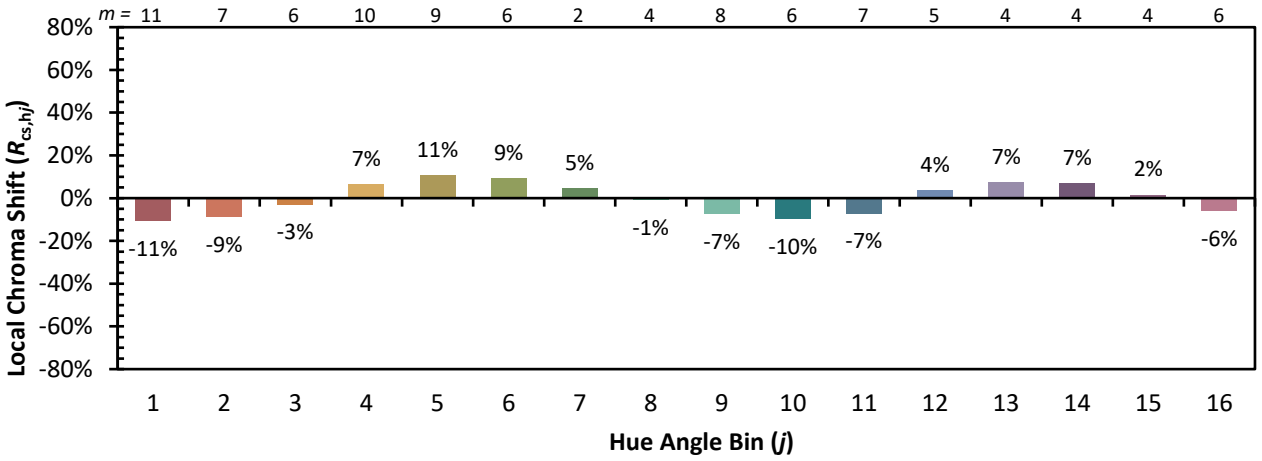
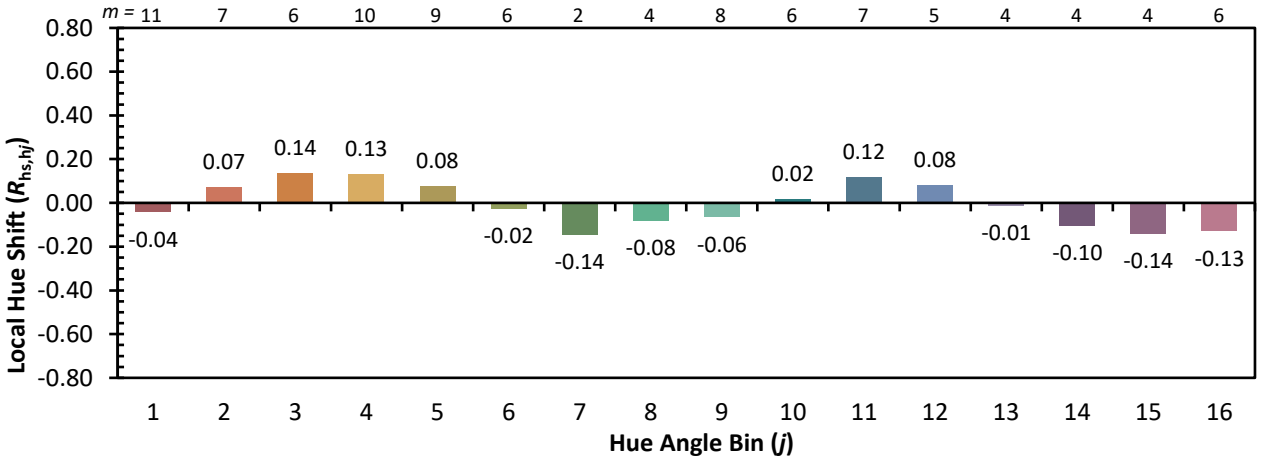
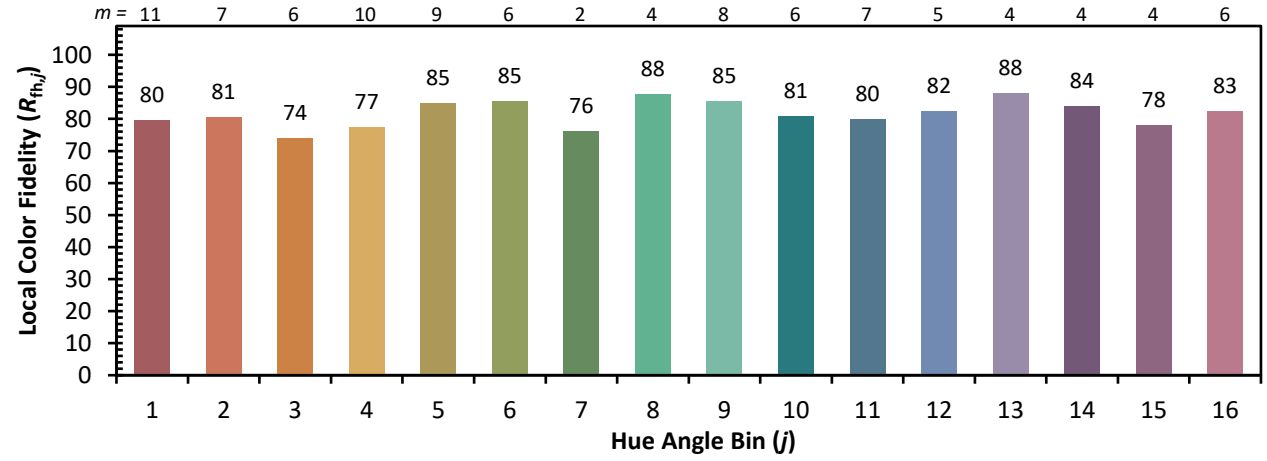
Color Rendition by Hue-Angle Bin







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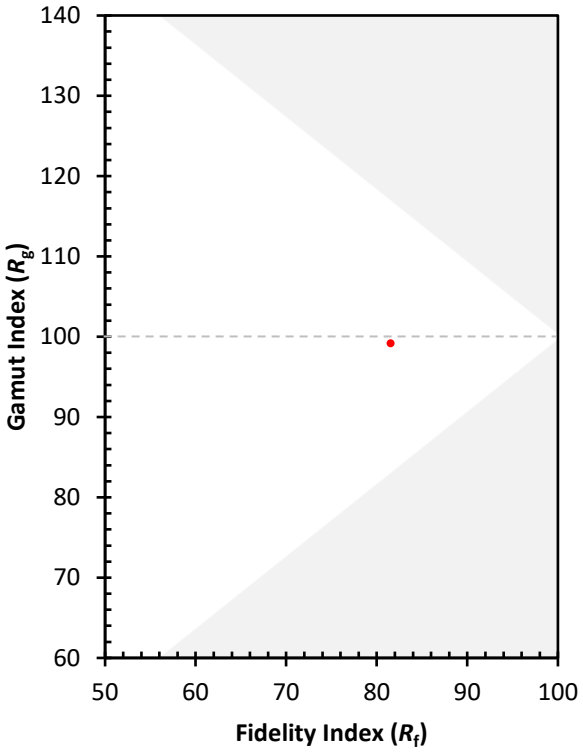
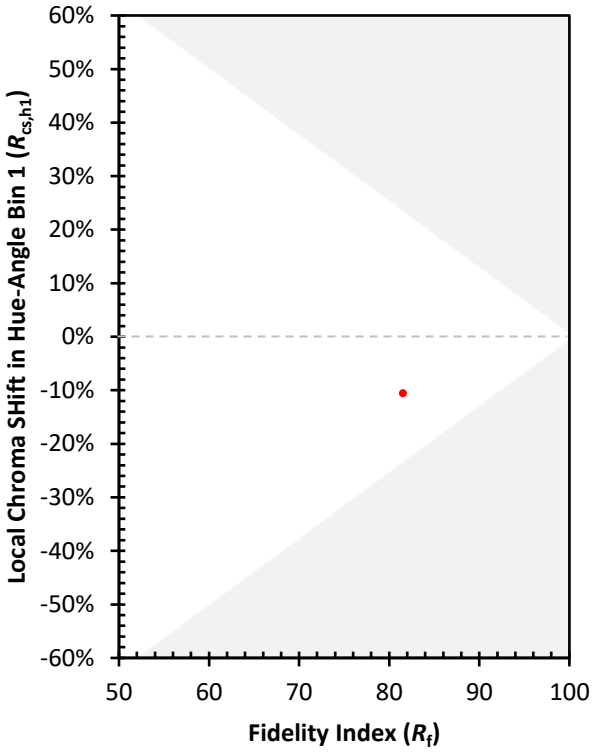
Measure Comparisons





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