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: P639959

Luminaire Tested: GWS-SA5C-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:	P639959
	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-SA5C-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15841.5 lumens
Efficiency:	N/A
Efficacy:	100.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	157.5
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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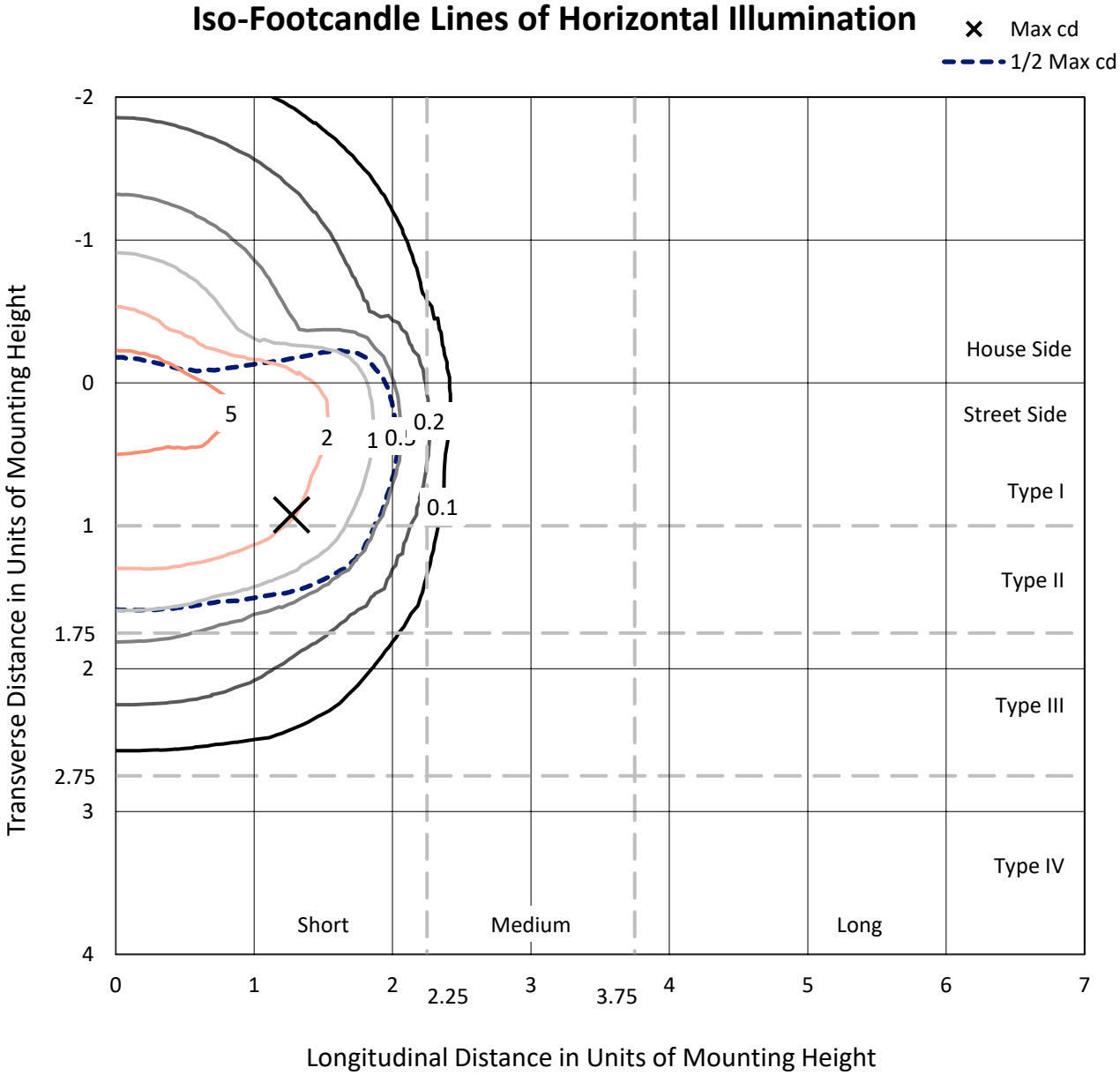
Scaled Data Report

REPORT NUMBER: P639959
CATALOG NUMBER: GWS-SA5C-830-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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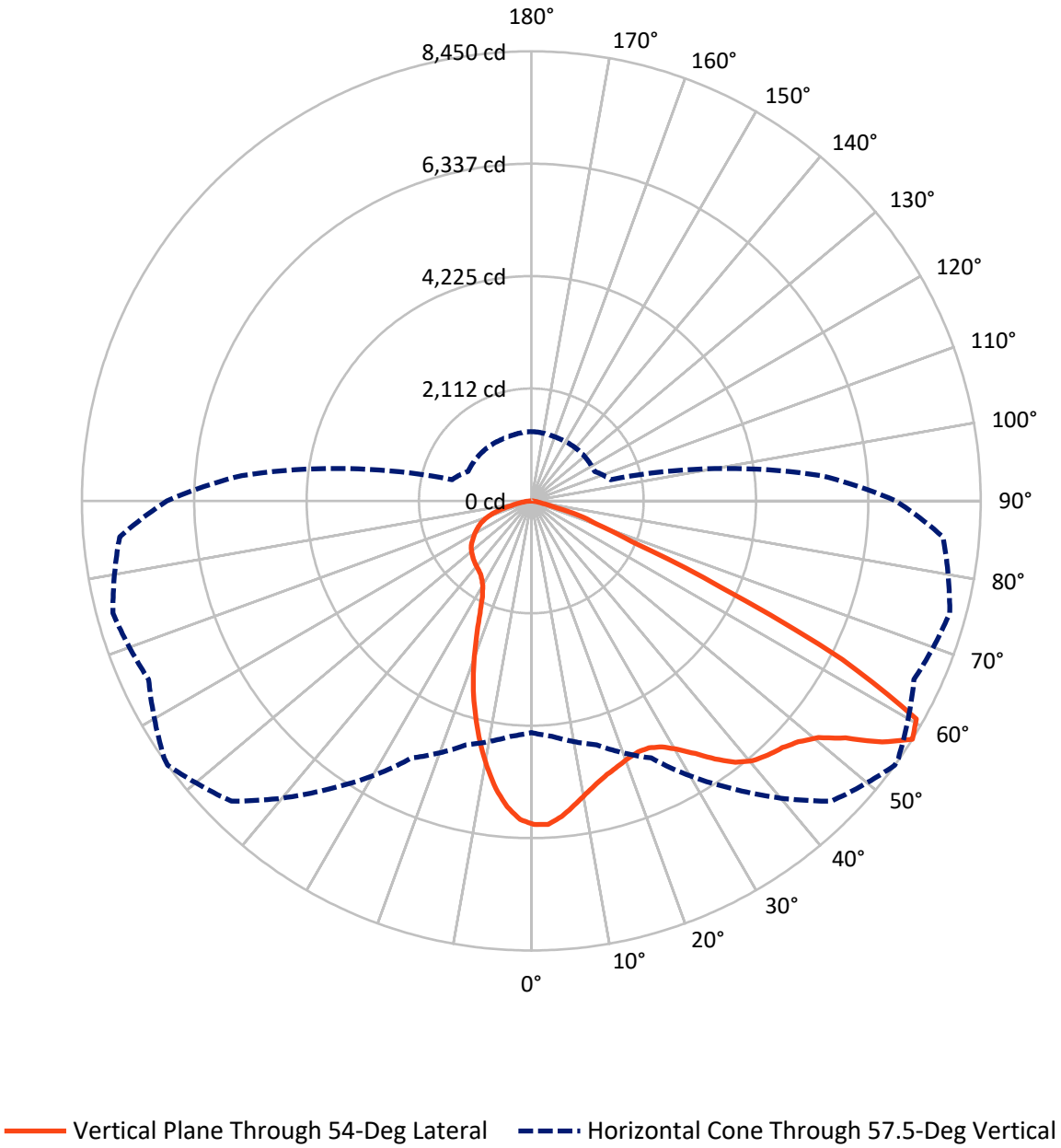
Luminous Intensity Polar Plot



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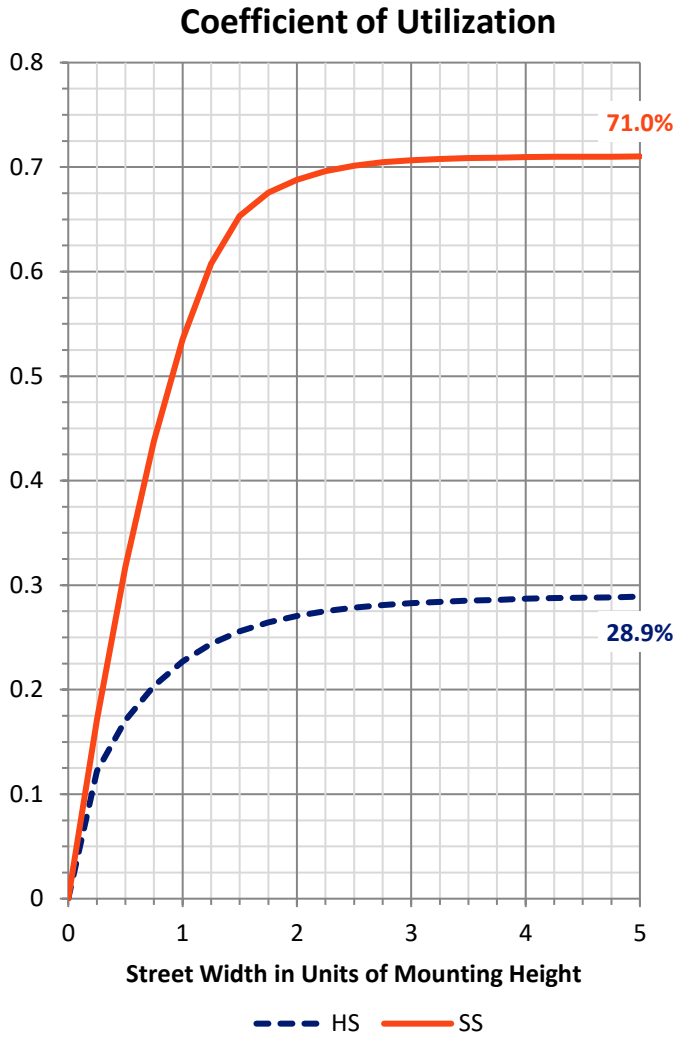
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4605.3	0.0	4605.3
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	11236.2	0.0	11236.2
	% Fixture	70.9	0.0	70.9
Total	Lumens	15841.5	0.0	15841.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.6	3.4
10°-20°	1275.6	8.1
20°-30°	1765.2	11.1
30°-40°	2452.8	15.5
40°-50°	3239.4	20.4
50°-60°	3849.6	24.3
60°-70°	2132.7	13.5
70°-80°	531.1	3.4
80°-90°	60.4	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°	15841.5	100.0
0°-180°	15841.5	100.0



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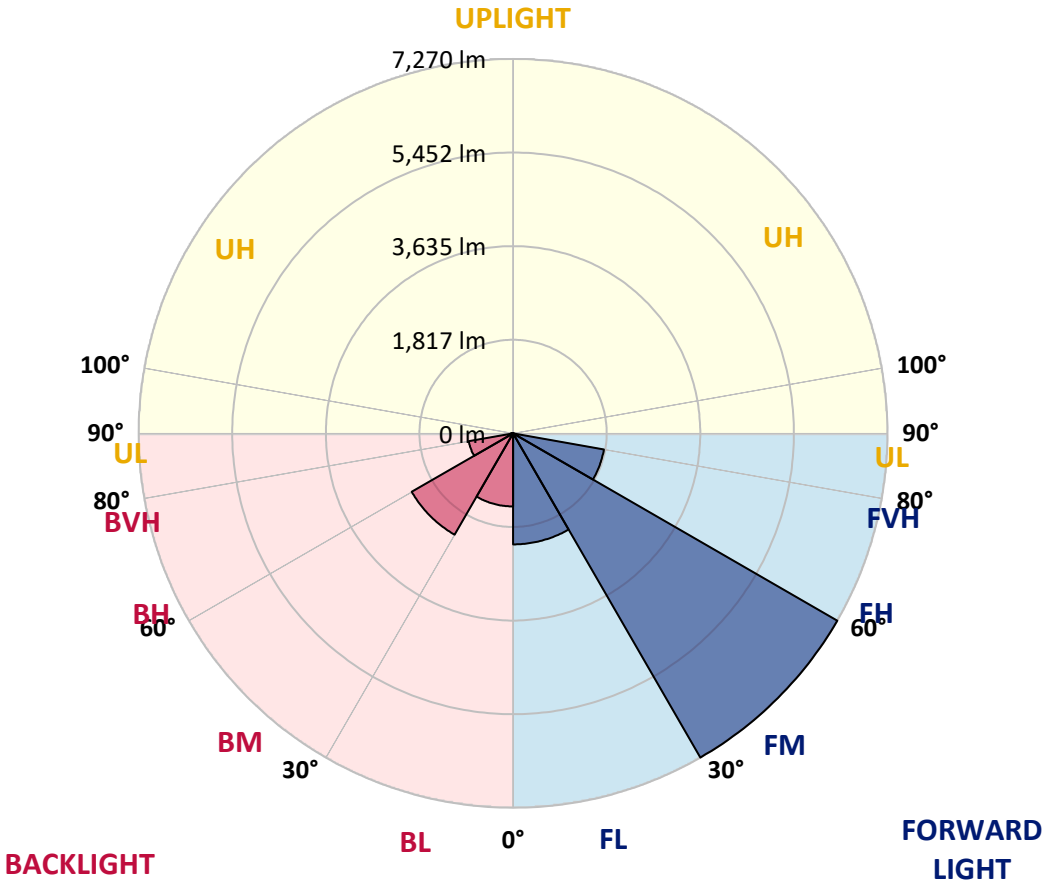
REPORT NUMBER: P639959
CATALOG NUMBER: GWS-SA5C-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2156.3	13.6			
FM	(30°-60°)	7269.9	45.9			
FH	(60°-80°)	1791.1	11.3			G1/1800
FVH	(80°-90°)	18.9	0.1			G1/100
BL	(0°-30°)	1419.2	9.0	B3/2500		
BM	(30°-60°)	2271.9	14.3	B2/2500		
BH	(60°-80°)	872.7	5.5	B2/1000		G2/1000
BVH	(80°-90°)	41.5	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: P639959
CATALOG NUMBER: GWS-SA5C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9
2.5°	5968.0	5980.2	5988.3	6016.8	6041.2	6062.9	6086.0	6086.0	6084.6	6080.6	6072.4
5°	5732.0	5745.6	5764.6	5803.9	5856.8	5894.8	5957.2	5962.6	5989.7	6000.5	5995.1
7.5°	5458.1	5462.2	5486.6	5538.1	5622.2	5690.0	5779.5	5790.4	5855.5	5893.4	5886.6
10°	5158.4	5144.9	5188.3	5264.2	5374.1	5488.0	5603.2	5612.7	5717.1	5789.0	5783.6
12.5°	4884.5	4885.9	4929.3	5021.5	5158.4	5299.5	5454.1	5475.8	5604.6	5696.8	5687.3
15°	4655.3	4660.8	4713.7	4818.1	4974.0	5142.2	5334.7	5355.1	5517.8	5639.8	5612.7
17.5°	4472.3	4477.7	4523.8	4643.1	4809.9	5013.3	5247.9	5268.3	5470.3	5615.4	5559.8
20°	4346.2	4343.4	4388.2	4502.1	4674.3	4895.4	5172.0	5201.8	5455.4	5624.9	5524.6
22.5°	4294.6	4293.3	4325.8	4419.4	4580.8	4804.5	5125.9	5166.6	5471.7	5667.0	5502.9
25°	4320.4	4315.0	4343.4	4412.6	4541.4	4769.2	5139.5	5182.8	5540.8	5753.7	5506.9
27.5°	4400.4	4393.6	4418.0	4480.4	4578.0	4805.9	5234.4	5284.6	5687.3	5912.4	5561.2
30°	4522.4	4518.4	4542.8	4602.5	4687.9	4927.9	5416.1	5473.0	5913.8	6159.2	5679.2
32.5°	4664.8	4658.1	4701.4	4770.6	4869.6	5150.3	5660.2	5734.8	6182.3	6476.5	5877.1
35°	4824.8	4819.4	4879.1	4979.4	5121.8	5459.5	5955.8	6037.2	6456.2	6835.9	6140.2
37.5°	4980.8	4980.8	5096.1	5245.2	5424.2	5795.8	6233.8	6285.3	6646.0	7154.6	6422.3
40°	5119.1	5127.2	5300.8	5524.6	5752.4	6099.5	6416.9	6460.3	6730.1	7374.2	6667.7
42.5°	5272.3	5279.1	5481.2	5774.1	6045.3	6345.0	6528.1	6549.8	6746.4	7484.1	6841.3
45°	5394.4	5403.9	5654.8	5968.0	6300.2	6529.4	6616.2	6635.2	6769.4	7543.7	6967.4
47.5°	5458.1	5471.7	5759.2	6123.9	6472.5	6694.8	6761.3	6769.4	6864.4	7648.2	7119.3
50°	5447.3	5474.4	5798.5	6201.2	6599.9	6861.6	6994.5	7008.1	7058.3	7801.4	7296.9
52.5°	5543.6	5555.8	5882.6	6293.5	6781.6	7169.5	7400.0	7419.0	7395.9	7916.7	7402.7
55°	5383.5	5441.9	5778.2	6279.9	7058.3	7645.4	8000.7	7991.2	7702.4	8045.5	7579.0
57.5°	4354.3	4439.7	4747.6	5330.7	6602.6	7979.0	8449.6	8426.5	7939.7	8144.5	7770.2
60°	3014.5	3028.1	3306.1	3719.7	5096.1	7048.8	8318.0	8368.2	7983.1	8019.7	7416.3
62.5°	2411.1	2407.0	2432.8	2443.6	3241.0	4955.0	6566.0	6749.1	6632.5	6248.7	5256.1
65°	2058.5	2073.4	2149.3	2110.0	2115.4	2790.8	3923.1	3948.8	3867.5	3729.2	2779.9
67.5°	1611.0	1636.8	1771.0	1924.2	1875.4	1796.8	2035.4	2023.2	1594.7	1234.0	1019.8
70°	1008.9	1025.2	1168.9	1510.6	1632.7	1475.4	1308.6	1303.2	854.3	702.4	770.2
72.5°	588.5	591.2	631.9	842.1	1083.5	1008.9	962.8	927.5	549.2	560.1	614.3
75°	324.1	324.1	322.7	363.4	427.2	378.3	366.1	356.6	367.5	416.3	457.0
77.5°	67.8	69.2	73.2	96.3	124.8	151.9	191.2	192.6	240.0	278.0	310.5
80°	31.2	32.5	40.7	51.5	66.4	88.1	116.6	118.0	145.1	174.9	196.6
82.5°	16.3	17.6	21.7	27.1	35.3	46.1	65.1	65.1	86.8	103.1	116.6
85°	5.4	5.4	8.1	10.8	14.9	19.0	25.8	25.8	38.0	50.2	58.3
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.4	5.4	6.8	8.1	13.6
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: P639959
CATALOG NUMBER: GWS-SA5C-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9	6081.9
2.5°	6054.8	6012.8	6014.1	6022.2	5996.5	5957.2	5931.4	5898.8	5878.5	5874.4	5889.4
5°	5968.0	5919.2	5885.3	5850.0	5776.8	5690.0	5622.2	5566.6	5530.0	5516.4	5500.2
7.5°	5848.7	5784.9	5699.5	5600.5	5467.6	5313.0	5204.5	5102.8	5032.3	5012.0	5002.5
10°	5729.3	5637.1	5485.2	5300.8	5079.8	4871.0	4674.3	4523.8	4404.5	4336.7	4358.4
12.5°	5605.9	5492.0	5254.7	4971.3	4663.5	4348.9	4091.2	3841.7	3649.1	3552.9	3524.4
15°	5497.5	5342.9	5012.0	4628.2	4218.7	3822.7	3449.8	3075.5	2831.4	2698.6	2661.9
17.5°	5405.2	5204.5	4755.7	4278.4	3788.8	3224.7	2766.4	2419.2	2252.4	2179.2	2173.8
20°	5314.4	5068.9	4502.1	3901.4	3292.5	2660.6	2251.1	2088.3	2028.7	2002.9	2001.5
22.5°	5233.0	4926.6	4235.0	3524.4	2798.9	2236.1	2011.0	1940.5	1924.2	1924.2	1921.5
25°	5163.9	4784.2	3961.0	3124.4	2352.8	1990.7	1886.3	1856.4	1863.2	1875.4	1876.8
27.5°	5135.4	4673.0	3696.6	2713.5	2044.9	1848.3	1800.8	1796.8	1815.8	1834.7	1837.5
30°	5165.2	4597.0	3425.4	2320.2	1860.5	1761.5	1739.8	1748.0	1771.0	1790.0	1790.0
32.5°	5257.4	4559.1	3148.8	2032.7	1753.4	1700.5	1693.7	1701.9	1719.5	1730.3	1731.7
35°	5413.4	4574.0	2862.6	1838.8	1684.2	1655.7	1654.4	1659.8	1666.6	1673.4	1674.7
37.5°	5610.0	4640.4	2556.2	1726.3	1639.5	1623.2	1620.5	1619.1	1620.5	1620.5	1621.8
40°	5802.6	4740.8	2282.2	1659.8	1608.3	1594.7	1587.9	1578.4	1577.1	1574.4	1573.0
42.5°	5944.9	4818.1	2063.9	1612.4	1579.8	1563.5	1555.4	1540.5	1539.1	1537.8	1536.4
45°	6052.1	4883.2	1882.2	1566.2	1550.0	1535.1	1517.4	1503.9	1506.6	1509.3	1509.3
47.5°	6172.8	4940.1	1749.3	1522.9	1513.4	1498.4	1476.7	1467.3	1476.7	1486.2	1486.2
50°	6319.2	5020.1	1640.8	1479.5	1475.4	1457.8	1438.8	1434.7	1445.6	1459.1	1459.1
52.5°	6426.3	5089.3	1563.5	1436.1	1436.1	1413.0	1396.7	1395.4	1407.6	1421.1	1422.5
55°	6627.0	5250.6	1536.4	1385.9	1380.5	1362.8	1350.6	1341.1	1356.1	1368.3	1368.3
57.5°	*6853.5*	*5464.9*	*1543.2*	*1314.0*	*1307.2*	*1301.8*	*1292.3*	*1281.5*	*1285.5*	*1299.1*	*1300.5*
60°	6373.5	5050.0	1468.6	1242.1	1238.1	1235.4	1223.2	1204.2	1209.6	1220.5	1221.8
62.5°	4451.9	3356.2	1187.9	1152.6	1166.2	1164.9	1148.6	1126.9	1128.2	1143.2	1143.2
65°	2310.7	1815.8	1042.8	1071.3	1091.6	1083.5	1056.4	1037.4	1034.7	1053.7	1049.6
67.5°	996.7	991.3	949.2	985.9	1007.5	989.9	961.4	930.3	933.0	939.7	934.3
70°	802.8	827.2	844.8	884.1	901.8	869.2	838.0	820.4	805.5	804.1	794.6
72.5°	641.4	675.3	714.6	755.3	760.7	728.2	688.9	672.6	649.6	648.2	638.7
75°	482.8	511.2	542.4	575.0	575.0	543.8	518.0	509.9	482.8	474.6	466.5
77.5°	329.5	347.2	371.6	379.7	387.8	375.6	349.9	336.3	305.1	297.0	286.1
80°	207.5	219.7	234.6	240.0	248.2	233.2	212.9	198.0	176.3	169.5	164.1
82.5°	124.8	132.9	142.4	145.1	151.9	141.0	122.0	111.2	99.0	93.6	89.5
85°	63.7	67.8	73.2	74.6	73.2	62.4	55.6	50.2	42.0	40.7	38.0
87.5°	16.3	19.0	20.3	19.0	17.6	13.6	9.5	6.8	2.7	2.7	1.4
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

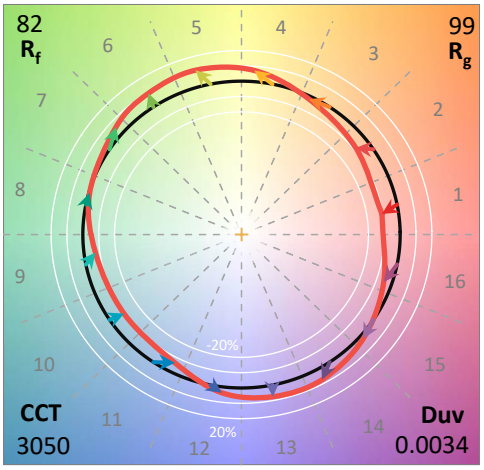
Test Information

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

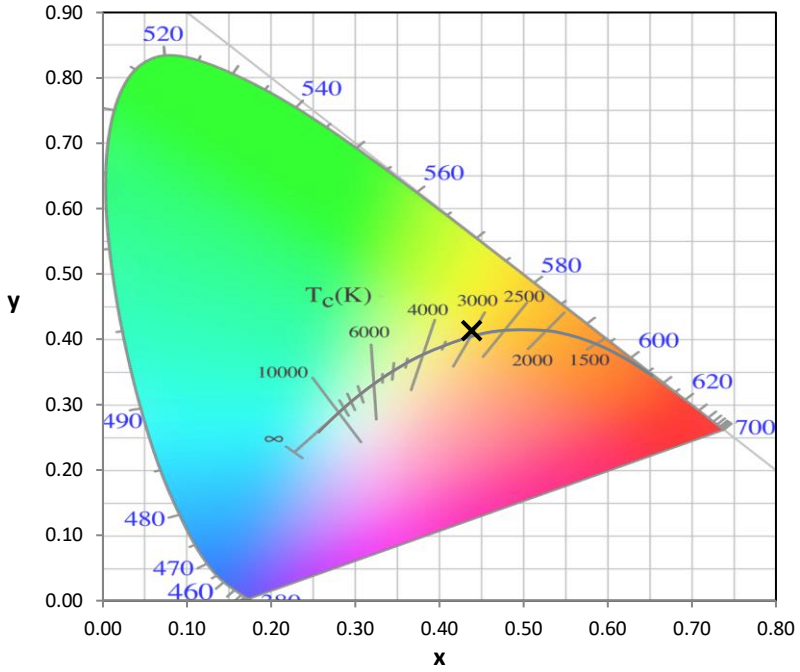
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

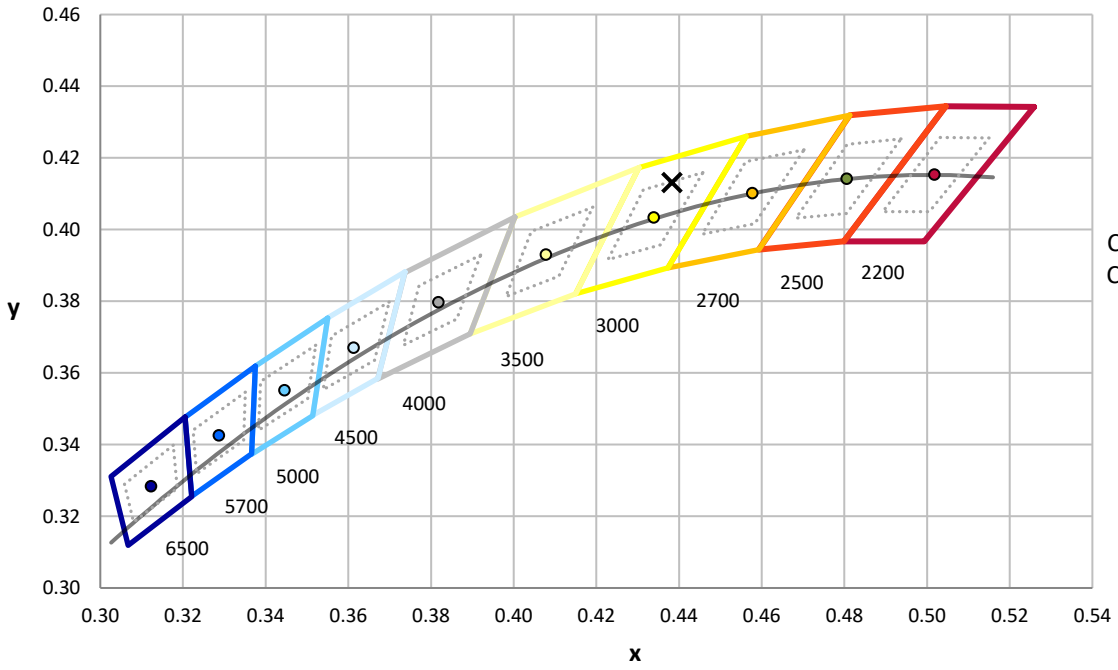
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

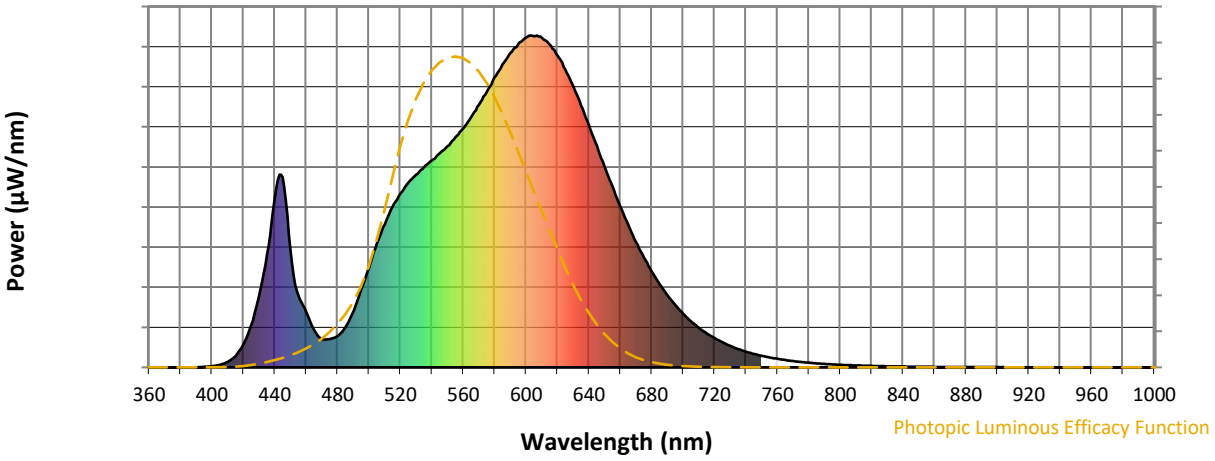


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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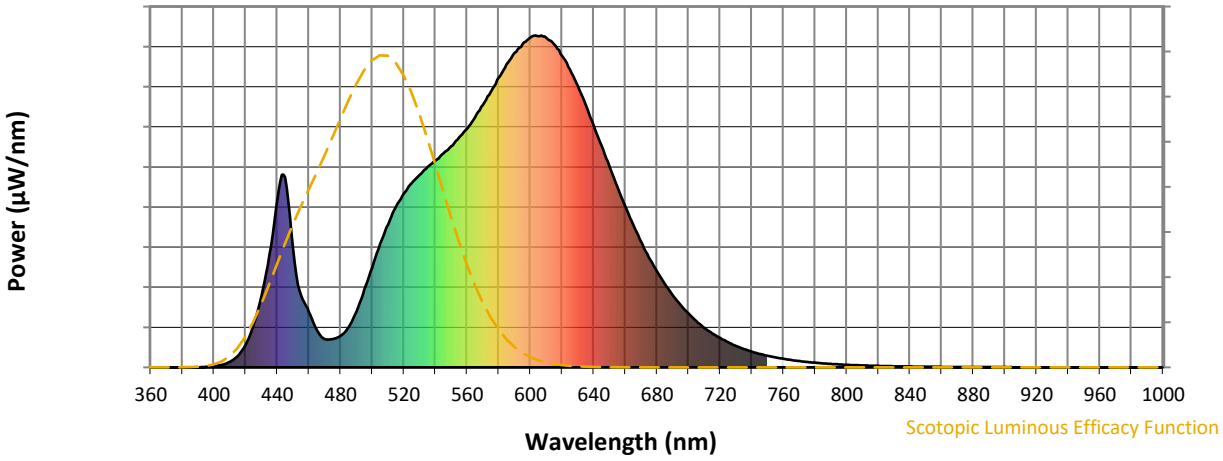
Scotopic Flux vs. Wavelength



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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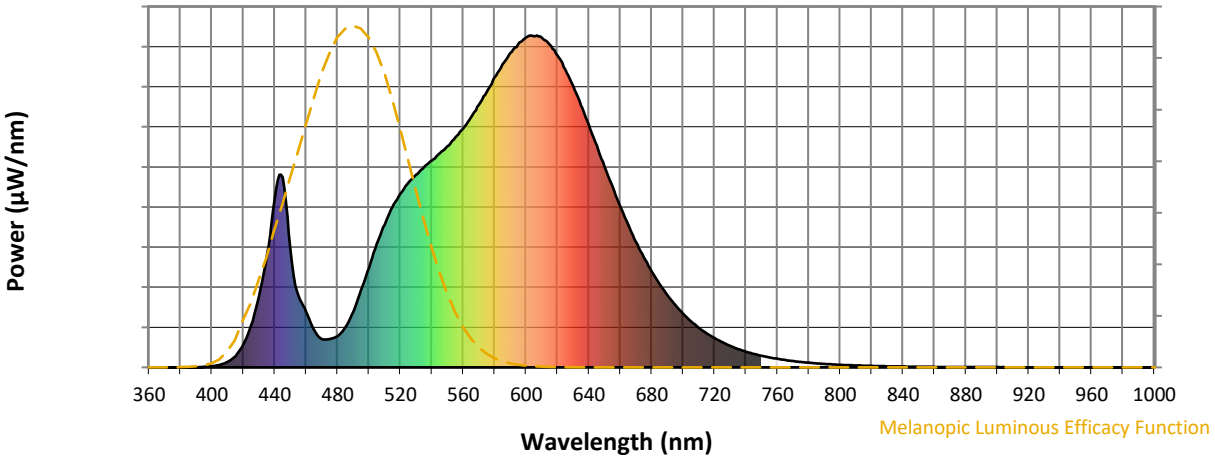
Melanopic Flux vs. Wavelength



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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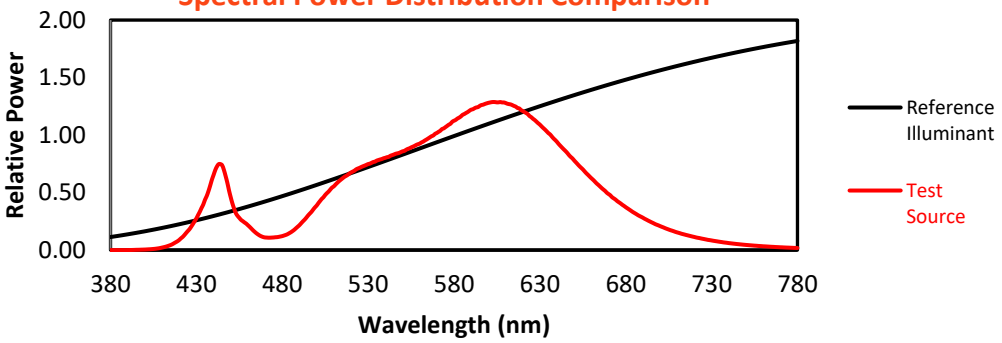
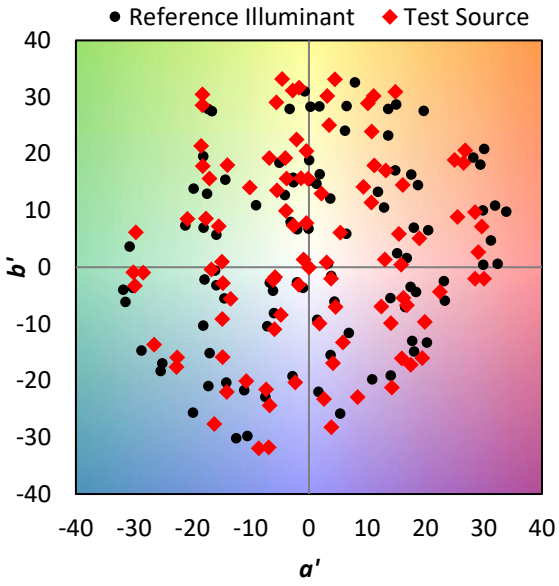
Summary

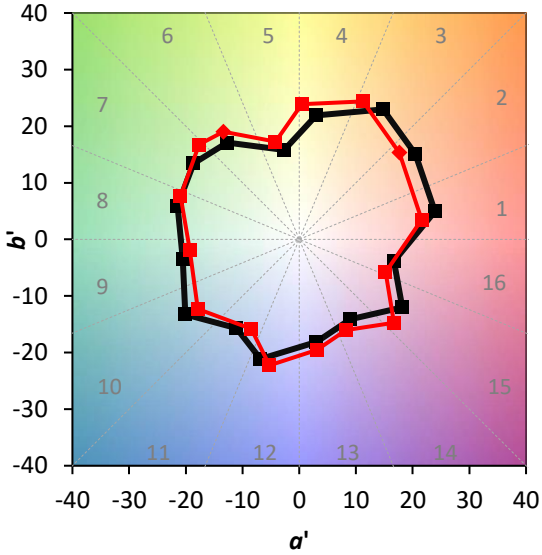
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

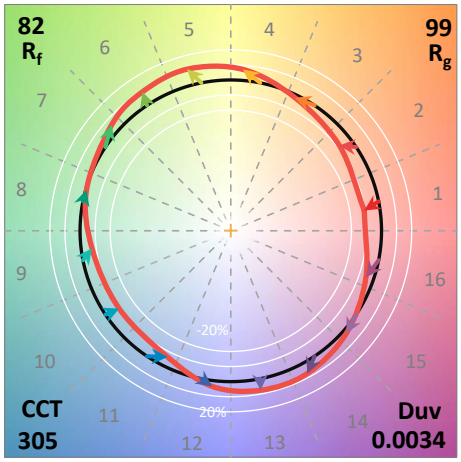
Spectral Power Distribution Comparison

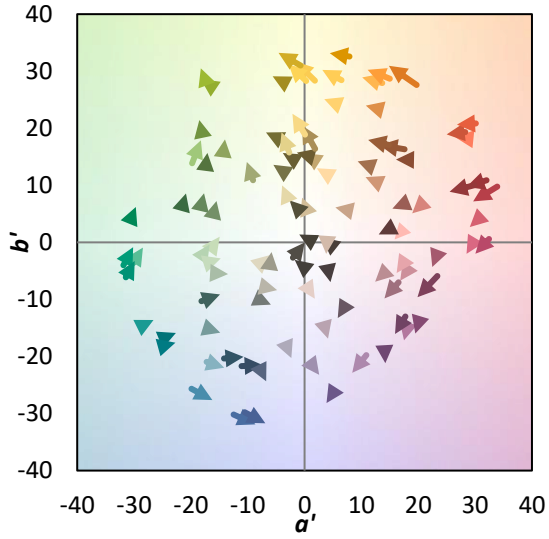


Color Vector Graphics









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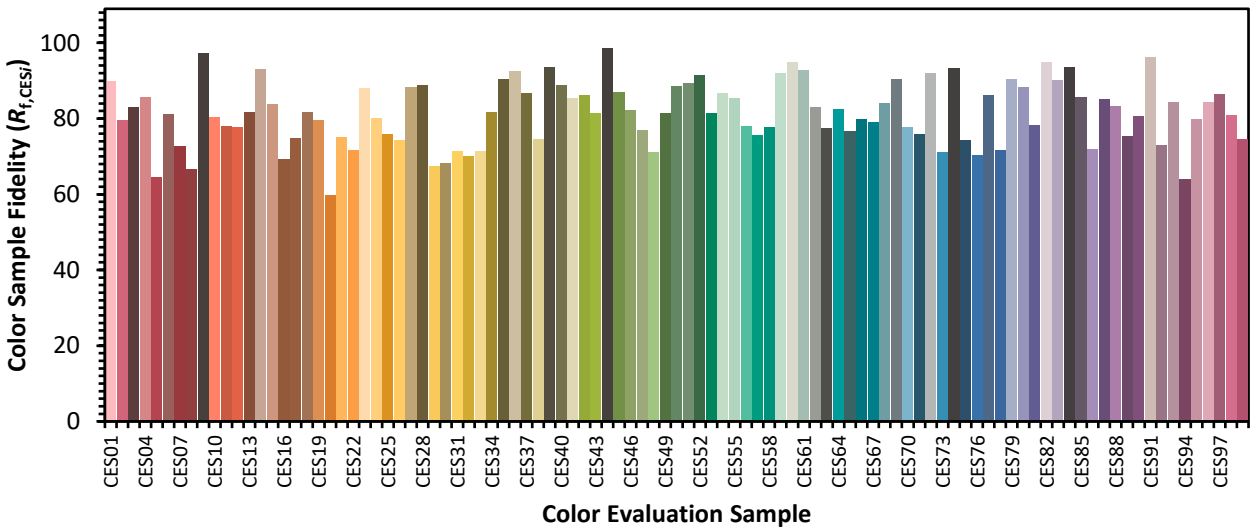
Individual Sample Fidelity Index ($R_{f,i}$)

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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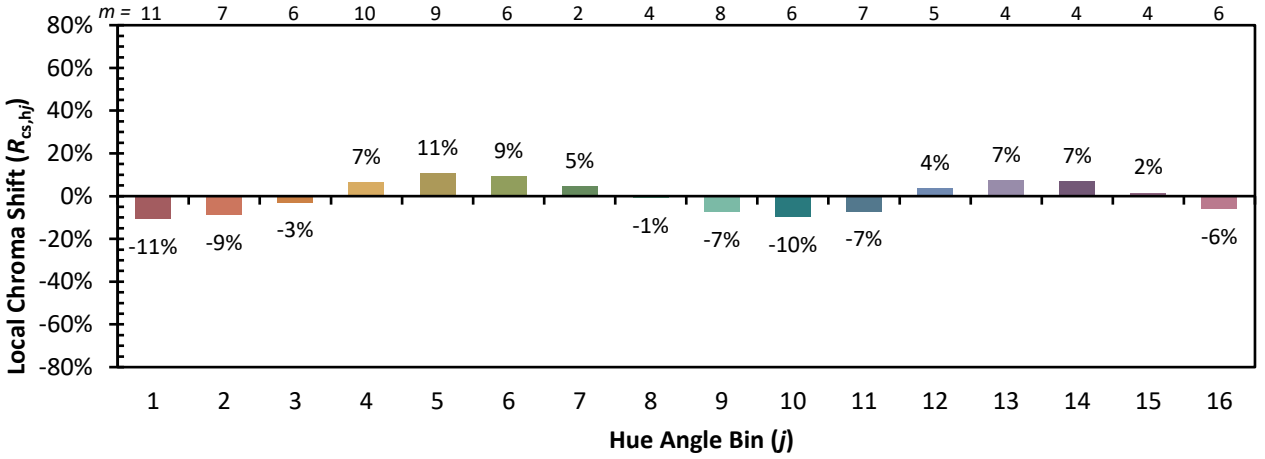
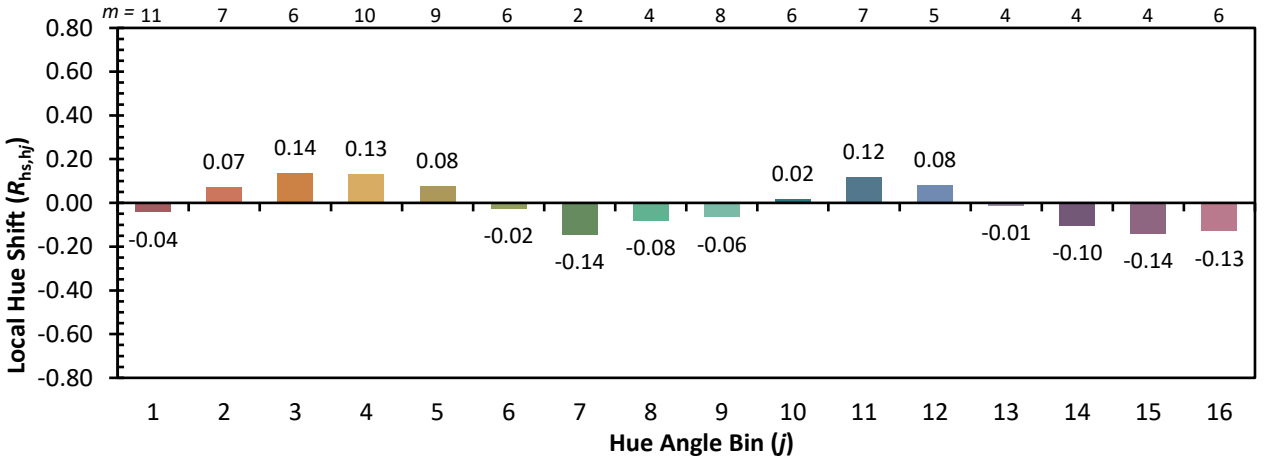
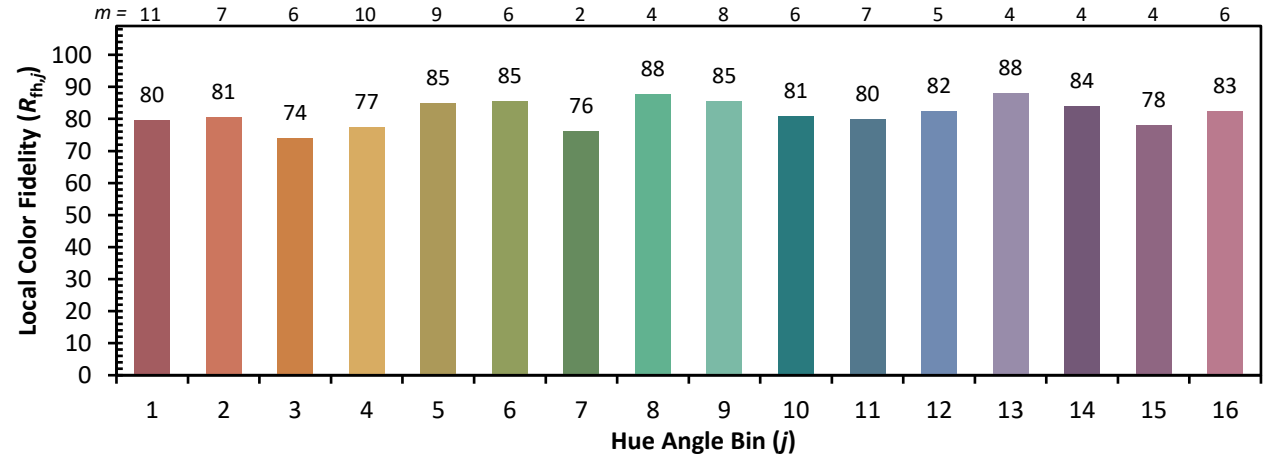
Color Rendition by Hue-Angle Bin







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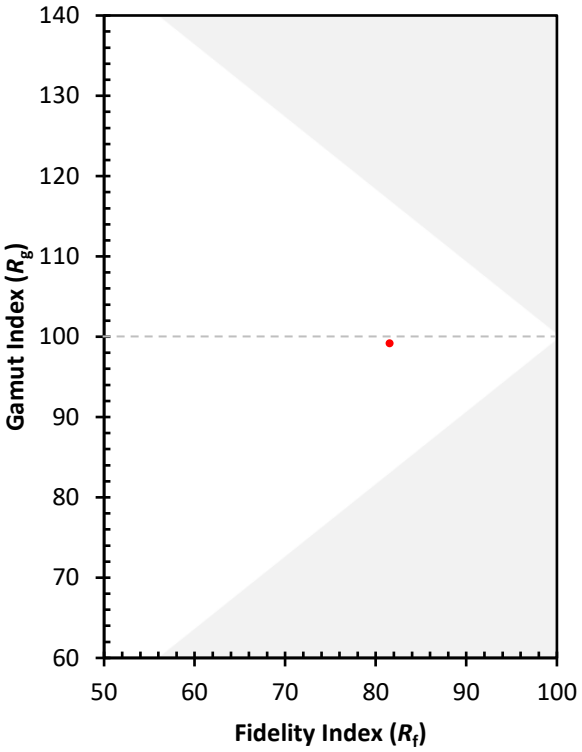
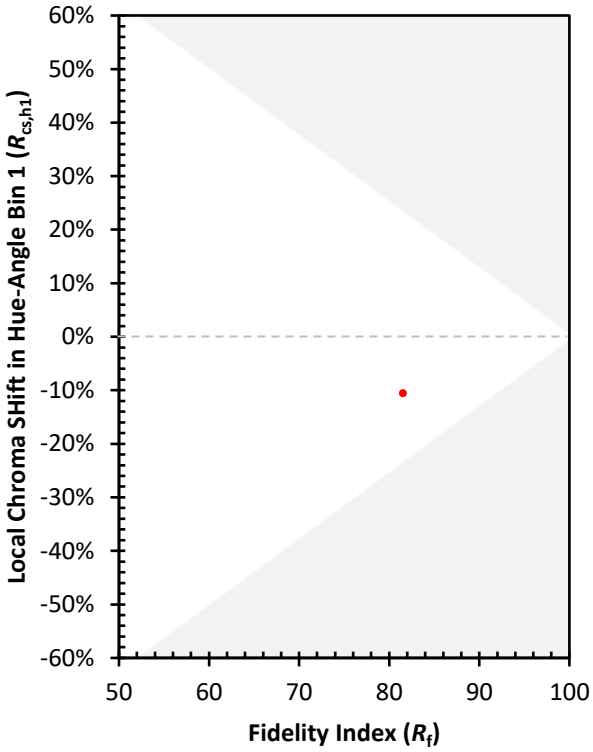
Measure Comparisons





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