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: P635033

Luminaire Tested: GWS-SA3C-830-U-T3-W-HSS

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:	P635033
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-T3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8135.3 lumens
Efficiency:	N/A
Efficacy:	87.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	93
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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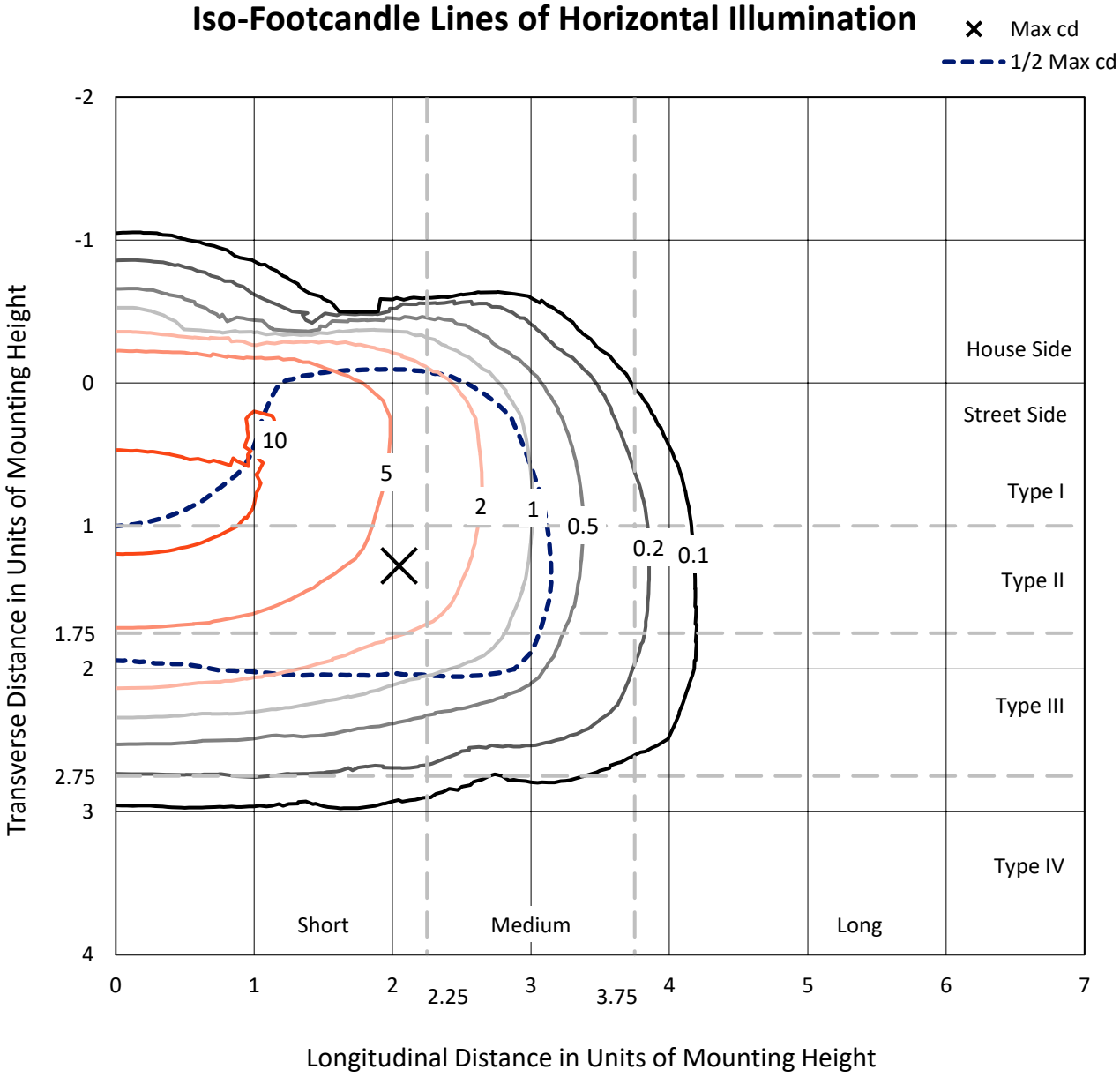
Scaled Data Report

REPORT NUMBER: P635033
CATALOG NUMBER: GWS-SA3C-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
Type III - Short - N/A

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REPORT NUMBER: P635033
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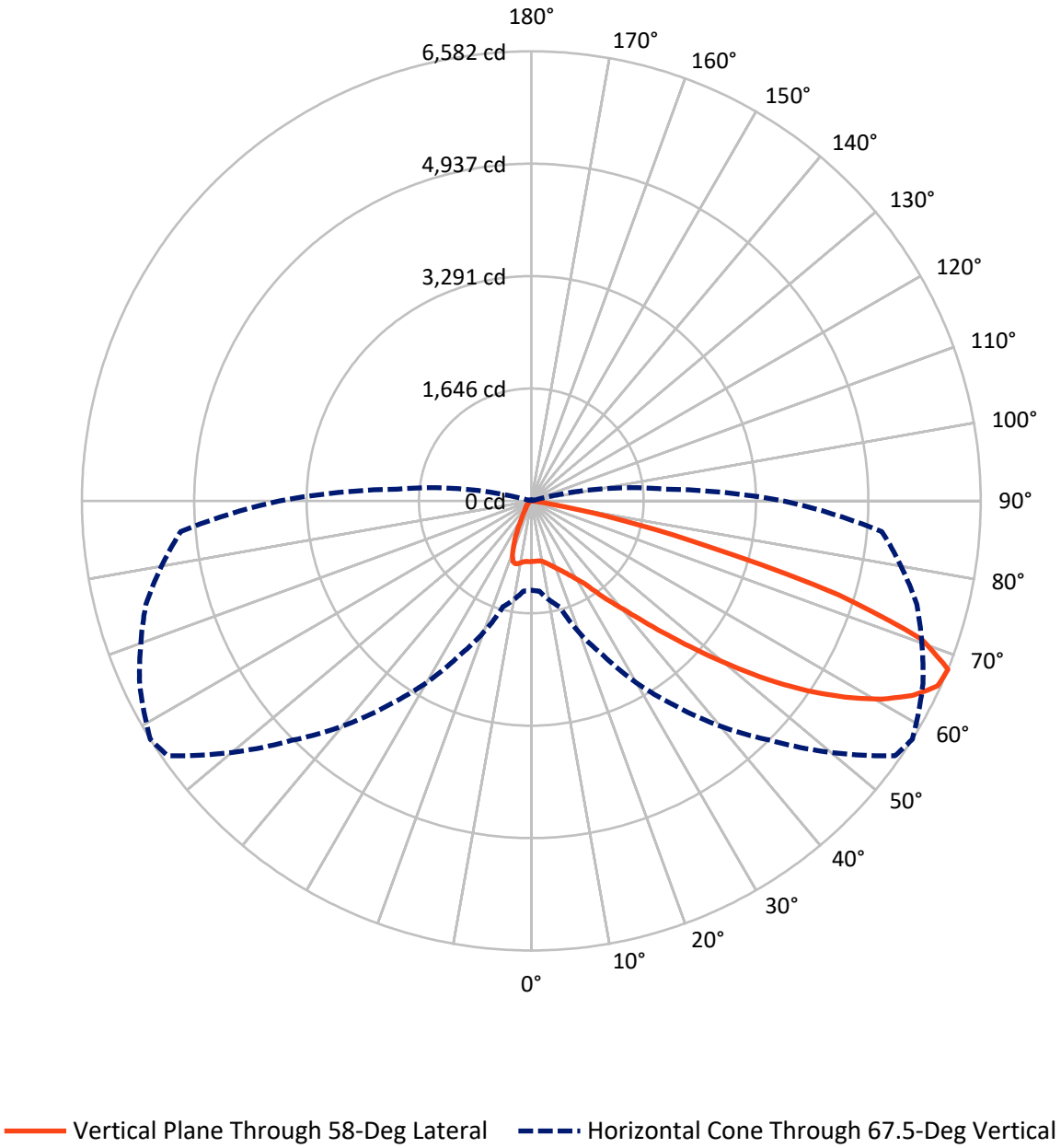
Luminous Intensity Polar Plot



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REPORT NUMBER: P635033
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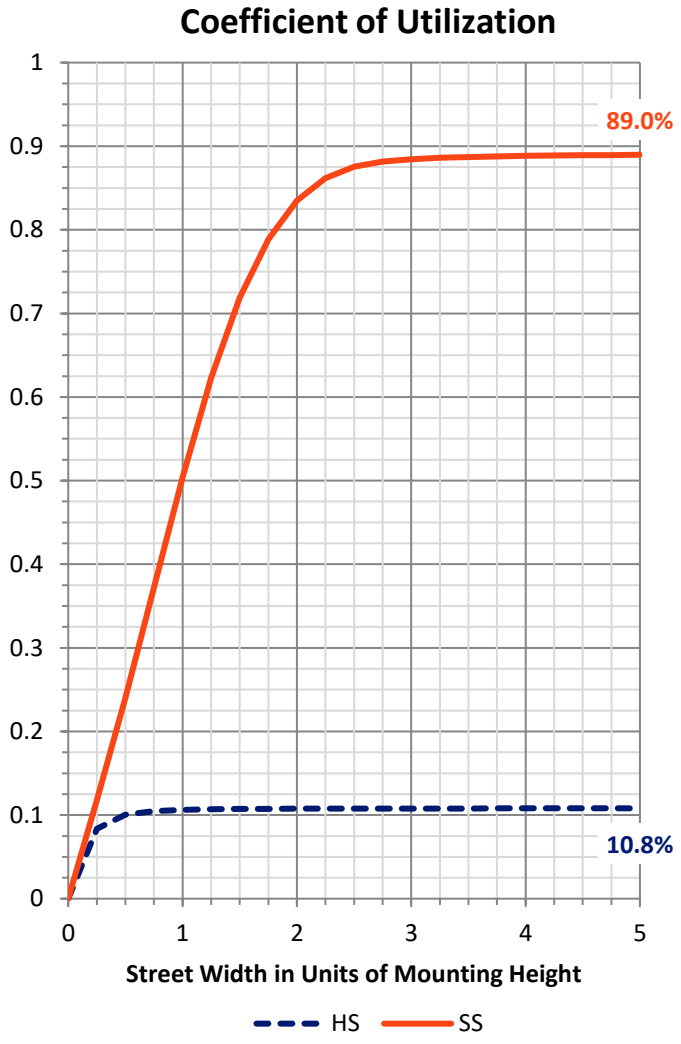
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.6	0.0	887.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	7247.8	0.0	7247.8
	% Fixture	89.1	0.0	89.1
Total	Lumens	8135.3	0.0	8135.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.0
10°-20°	233.8	2.9
20°-30°	408.1	5.0
30°-40°	728.9	9.0
40°-50°	1332.2	16.4
50°-60°	2215.7	27.2
60°-70°	2406.6	29.6
70°-80°	706.6	8.7
80°-90°	20.1	0.2
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°	8135.3	100.0
0°-180°	8135.3	100.0



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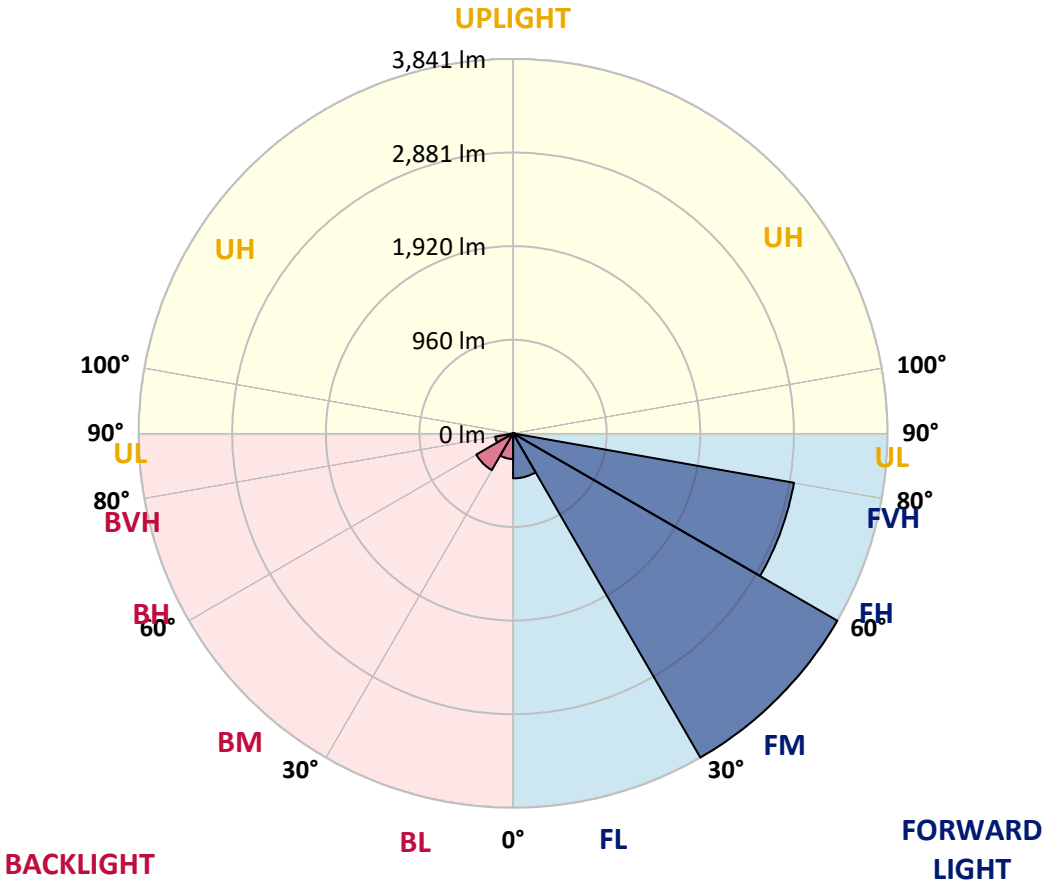
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	462.0	5.7			
FM	(30°-60°)	3840.8	47.2			
FH	(60°-80°)	2925.8	36.0			G2/5000
FVH	(80°-90°)	19.1	0.2			G1/100
BL	(0°-30°)	263.3	3.2	B1/500		
BM	(30°-60°)	435.9	5.4	B1/1000		
BH	(60°-80°)	187.4	2.3	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P635033
CATALOG NUMBER: GWS-SA3C-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
2.5°	869.8	868.2	868.2	874.6	875.4	878.6	885.7	886.5	890.5	888.9	883.3
5°	824.5	825.3	830.1	841.2	850.8	862.7	880.1	884.1	892.9	897.6	894.4
7.5°	782.4	783.2	790.4	807.9	826.1	850.0	878.6	886.5	904.0	916.7	917.5
10°	766.6	765.8	772.9	792.8	816.6	850.0	891.3	901.6	927.8	950.1	954.0
12.5°	771.3	770.5	777.7	795.9	822.2	864.3	913.5	927.8	961.2	995.3	1002.5
15°	790.4	789.6	794.4	809.5	838.0	881.7	942.1	963.6	1005.7	1047.0	1058.1
17.5°	847.6	843.6	838.8	840.4	857.1	902.4	978.7	1004.9	1057.3	1106.5	1116.1
20°	949.3	938.9	926.2	909.5	901.6	932.6	1020.8	1050.9	1114.5	1170.9	1172.5
22.5°	1102.6	1098.6	1069.2	1020.8	986.6	987.4	1070.0	1105.0	1182.8	1244.8	1236.0
25°	1316.3	1313.9	1268.6	1189.2	1100.2	1070.0	1132.8	1168.5	1263.8	1329.8	1302.0
27.5°	1581.6	1564.9	1511.7	1404.4	1271.8	1177.2	1212.2	1244.0	1349.6	1411.6	1359.1
30°	1812.7	1813.5	1763.5	1651.5	1502.1	1338.5	1309.1	1336.9	1428.3	1493.4	1429.8
32.5°	2035.1	2042.3	1987.5	1886.6	1723.0	1549.0	1448.1	1452.9	1529.1	1599.8	1522.8
35°	2241.7	2247.2	2209.1	2123.3	1970.8	1769.0	1641.9	1639.6	1680.9	1753.2	1652.3
37.5°	2472.8	2478.4	2441.1	2364.0	2221.0	2020.8	1862.0	1858.8	1875.5	1934.3	1819.1
40°	2719.1	2729.4	2688.1	2623.0	2486.3	2317.1	2117.8	2089.2	2072.5	2141.6	2035.1
42.5°	2968.5	2984.4	2970.1	2905.0	2788.2	2648.4	2449.8	2405.3	2369.6	2456.2	2343.4
45°	3278.3	3297.4	3291.0	3241.0	3150.4	3036.8	2849.4	2797.7	2781.1	2861.3	2727.0
47.5°	3576.2	3596.9	3619.9	3608.8	3544.4	3492.0	3283.9	3254.5	3249.7	3335.5	3127.4
50°	3797.8	3816.9	3905.1	3968.6	4012.3	4001.2	3820.9	3777.2	3770.0	3824.8	3550.0
52.5°	3956.7	3975.0	4096.5	4295.1	4455.6	4542.9	4361.0	4351.5	4312.6	4293.5	3945.6
55°	4079.8	4105.2	4233.1	4533.4	4856.7	5050.5	4936.9	4902.8	4802.7	4693.1	4312.6
57.5°	4104.5	4114.8	4295.1	4700.2	5168.1	5481.9	5481.9	5422.3	5229.3	5077.5	4736.8
60°	3883.6	3915.4	4159.3	4686.7	5301.6	5763.9	5933.9	5892.6	5632.0	5445.3	5145.1
62.5°	3393.5	3429.2	3726.3	4363.4	5168.1	5821.9	6276.2	6269.9	5976.0	5749.6	5483.5
65°	2602.3	2628.5	2887.5	3650.1	4604.1	5598.6	6520.9	6538.4	6247.6	5950.5	5600.2
67.5°	1307.5	1325.8	1605.4	2493.5	3649.3	4956.0	6504.2	6582.1	6330.2	5844.1	5154.6
70°	456.8	475.0	606.9	1070.0	2221.0	3784.3	5941.8	6068.9	5844.9	4988.6	3802.6
72.5°	156.5	165.2	251.8	397.2	864.3	2243.3	4518.3	4709.8	4308.6	3349.0	2185.3
75°	89.0	94.5	135.0	215.3	362.2	738.0	2563.4	2681.0	2511.8	1825.4	899.2
77.5°	60.4	65.1	84.2	122.3	200.2	237.5	1045.4	1316.3	1147.8	595.8	229.6
80°	35.7	38.9	51.6	72.3	102.5	92.1	224.0	297.9	383.7	177.9	69.1
82.5°	16.7	19.1	33.4	47.7	51.6	38.9	65.9	80.2	108.0	87.4	28.6
85°	0.0	0.0	11.1	19.9	19.1	11.1	18.3	19.9	29.4	43.7	11.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4	4.8	8.7	4.8
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: P635033
CATALOG NUMBER: GWS-SA3C-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
2.5°	889.7	884.1	890.5	887.3	890.5	889.7	883.3	879.4	879.4	872.2	869.8
5°	900.8	895.2	896.8	889.7	888.1	884.1	876.2	873.0	873.0	865.9	863.5
7.5°	925.4	916.7	915.1	900.8	894.4	883.3	869.0	863.5	862.7	855.5	853.1
10°	964.4	954.0	946.9	928.6	910.3	888.1	857.9	832.5	818.2	799.1	797.5
12.5°	1012.0	999.3	988.2	960.4	930.2	880.1	791.2	698.2	641.0	595.8	598.9
15°	1065.2	1053.3	1035.8	993.7	931.8	801.5	615.6	472.6	402.7	365.4	363.8
17.5°	1123.2	1105.7	1077.2	1020.0	881.7	612.5	400.4	282.8	246.3	233.5	230.4
20°	1177.2	1155.8	1120.0	1025.5	737.2	414.7	250.2	219.2	212.9	208.9	208.9
22.5°	1234.4	1207.4	1154.2	982.6	548.1	265.3	212.9	205.7	201.0	195.4	194.6
25°	1292.4	1257.5	1185.2	870.6	359.1	208.9	199.4	191.4	182.7	174.0	171.6
27.5°	1341.7	1296.4	1209.0	703.8	230.4	188.3	181.9	168.4	156.5	147.0	145.4
30°	1400.5	1342.5	1219.3	514.7	181.1	166.0	156.5	142.2	127.9	118.4	115.2
32.5°	1479.1	1415.5	1203.5	335.2	160.5	146.2	131.1	114.4	100.1	89.8	88.2
35°	1601.4	1526.0	1130.4	213.7	145.4	126.3	108.0	90.6	78.6	70.7	69.1
37.5°	1750.8	1680.9	1010.4	160.5	130.3	109.6	88.2	71.5	62.8	57.2	55.6
40°	1972.4	1874.7	861.9	140.6	115.2	92.9	72.3	58.8	52.4	47.7	46.1
42.5°	2260.0	2103.5	691.1	127.9	100.9	77.8	58.8	48.5	42.9	39.7	38.9
45°	2596.0	2326.7	510.8	115.2	87.4	64.3	48.5	39.7	35.7	33.4	32.6
47.5°	2939.9	2522.1	352.7	101.7	74.7	53.2	40.5	34.2	31.0	27.8	27.0
50°	3306.9	2687.3	240.7	88.2	63.5	43.7	35.0	31.0	27.0	24.6	23.8
52.5°	3576.2	2748.5	167.6	76.3	54.0	37.3	31.0	27.8	24.6	21.4	20.7
55°	3824.8	2746.9	127.1	64.3	46.1	32.6	27.8	24.6	21.4	19.1	18.3
57.5°	4072.7	2725.4	100.1	54.8	39.7	29.4	24.6	21.4	19.9	16.7	15.9
60°	4233.1	2644.4	77.8	46.1	34.2	25.4	21.4	19.1	16.7	14.3	13.5
62.5°	4318.1	2531.6	59.6	36.5	27.8	22.2	19.1	16.7	14.3	11.9	11.1
65°	4203.0	2331.4	46.9	28.6	21.4	19.1	15.9	13.5	11.1	8.7	7.9
67.5°	*3692.2*	*1966.0*	*36.5*	*23.0*	*16.7*	*14.3*	*13.5*	*11.1*	*7.9*	*6.4*	*5.6*
70°	2609.5	1346.4	28.6	17.5	12.7	11.1	10.3	8.7	6.4	4.8	4.0
72.5°	1432.2	679.2	20.7	12.7	9.5	8.7	7.9	7.1	5.6	4.0	4.0
75°	551.3	186.7	15.1	8.7	6.4	6.4	5.6	5.6	4.8	3.2	3.2
77.5°	143.8	55.6	9.5	5.6	4.0	4.0	4.0	3.2	3.2	2.4	2.4
80°	46.1	18.3	5.6	4.0	3.2	2.4	2.4	1.6	2.4	1.6	1.6
82.5°	15.1	6.4	3.2	3.2	2.4	1.6	1.6	0.8	0.8	0.0	0.0
85°	5.6	3.2	2.4	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	0.8	0.0	0.0	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

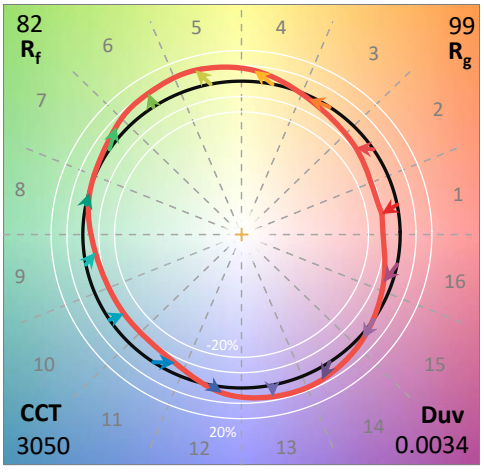
Test Information

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

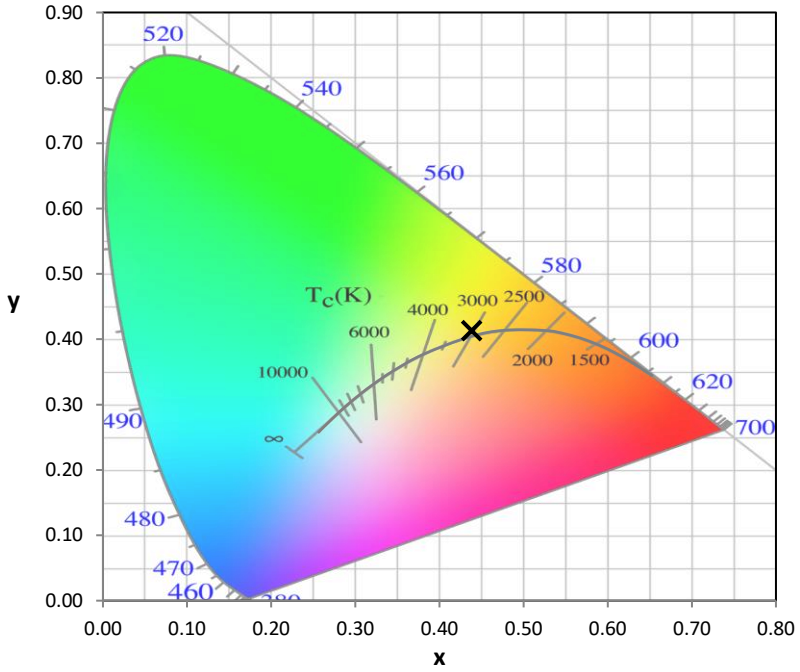
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

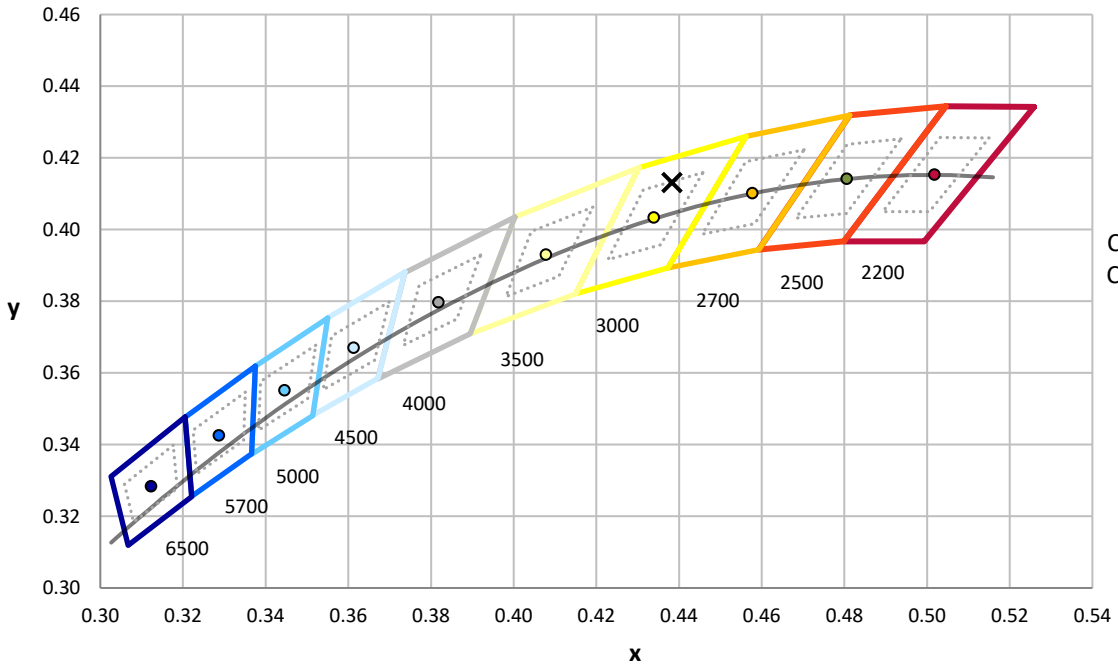
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

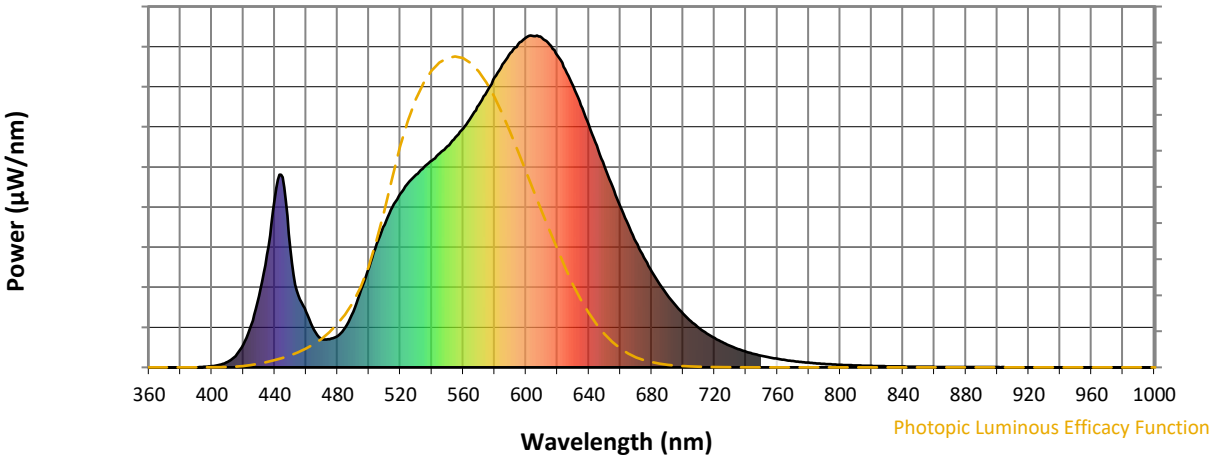


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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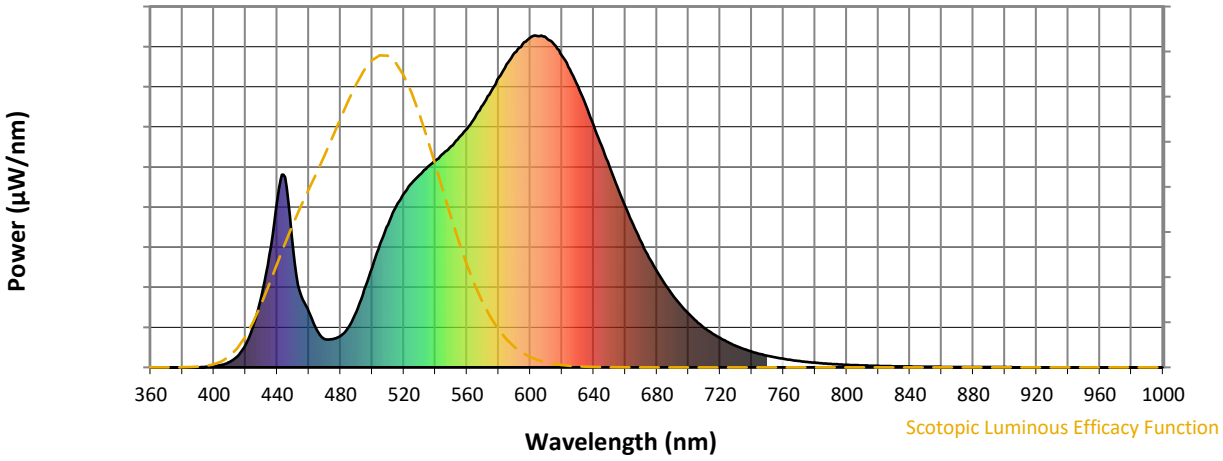
Scotopic Flux vs. Wavelength



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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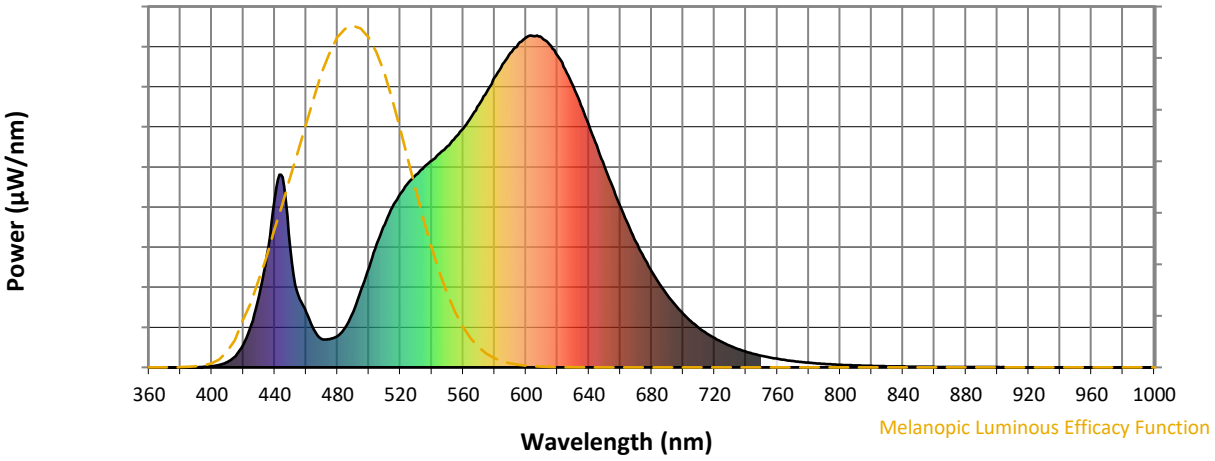
Melanopic Flux vs. Wavelength



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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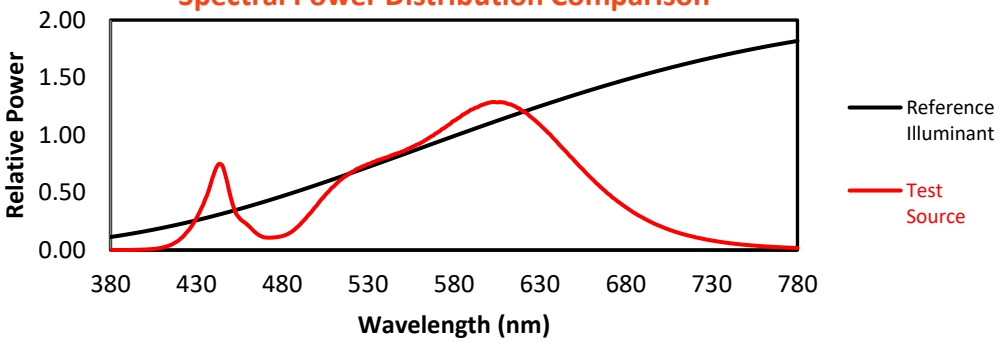
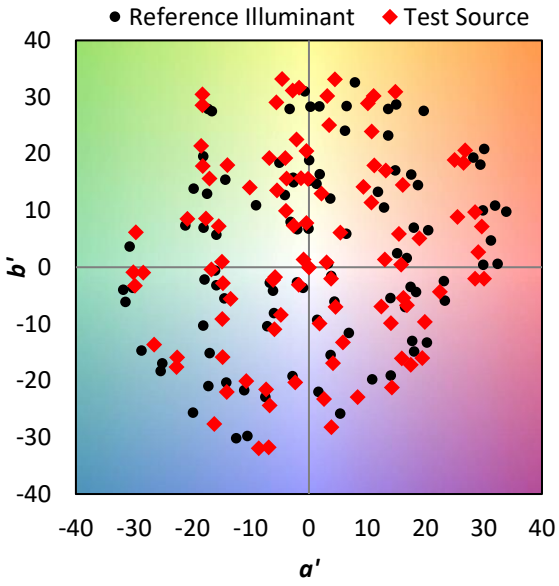
Summary

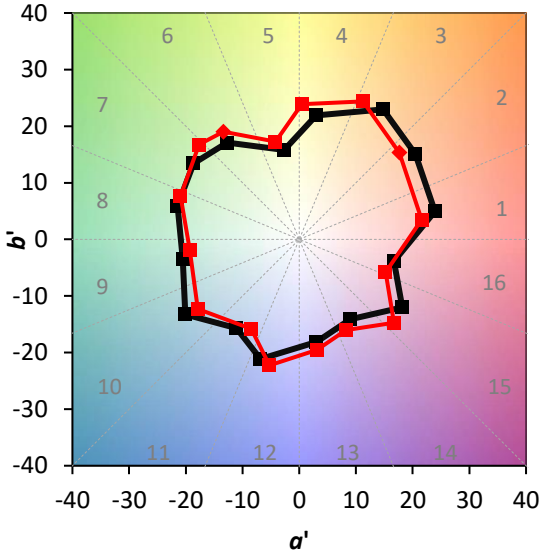
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

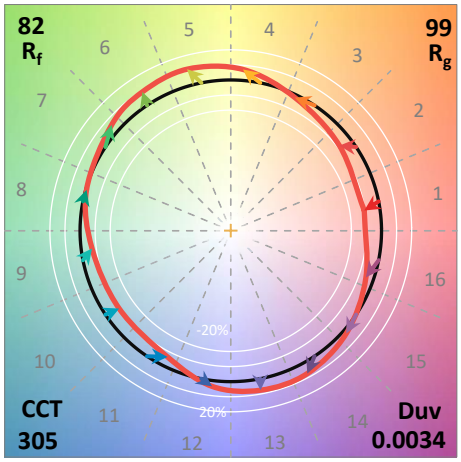
Spectral Power Distribution Comparison

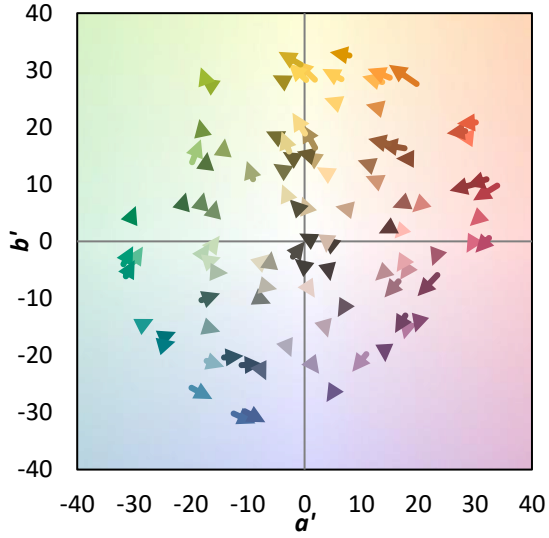


Color Vector Graphics









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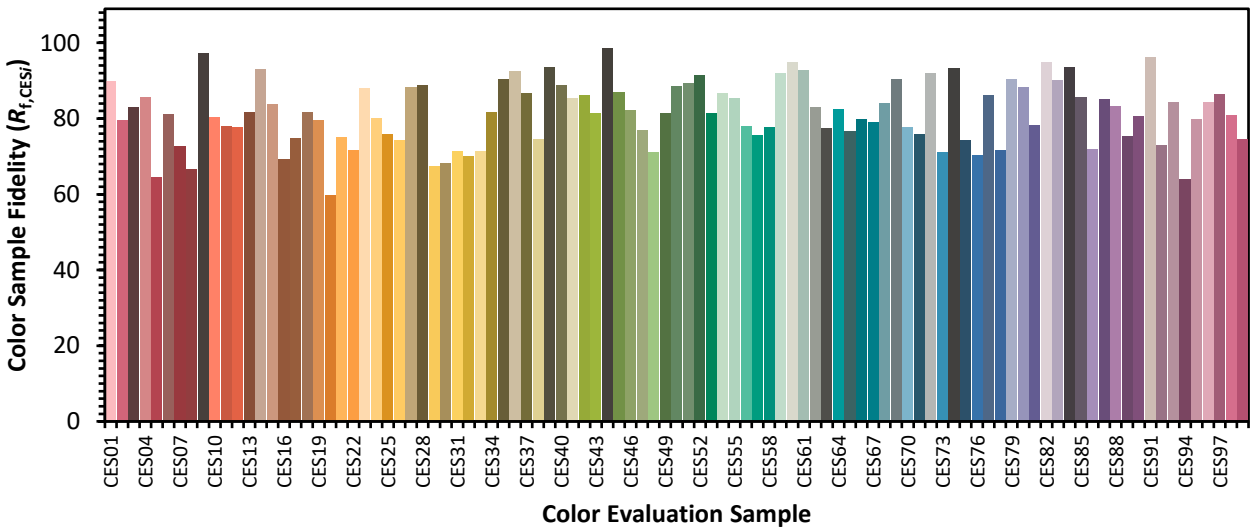
Individual Sample Fidelity Index ($R_{f,i}$)

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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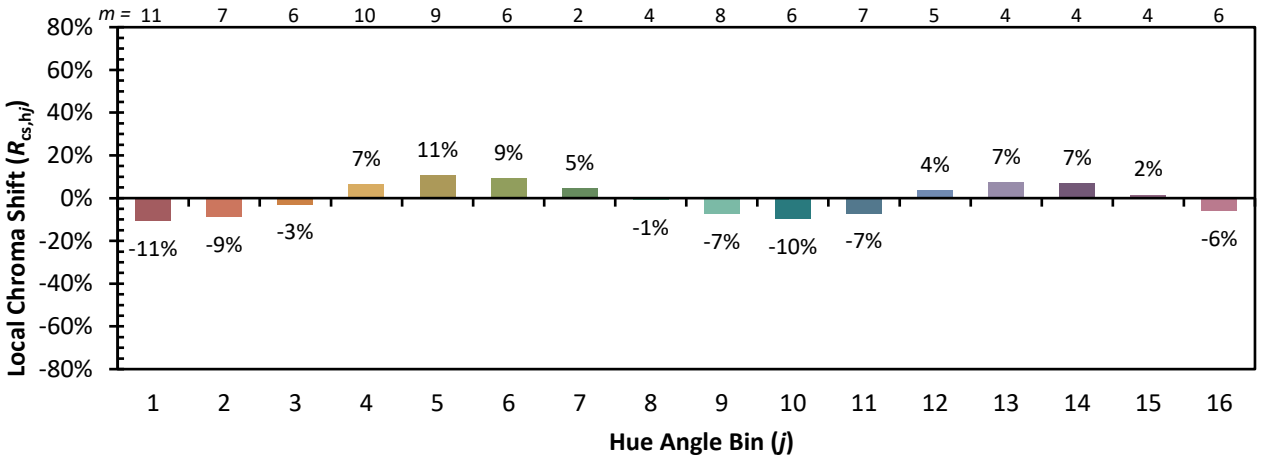
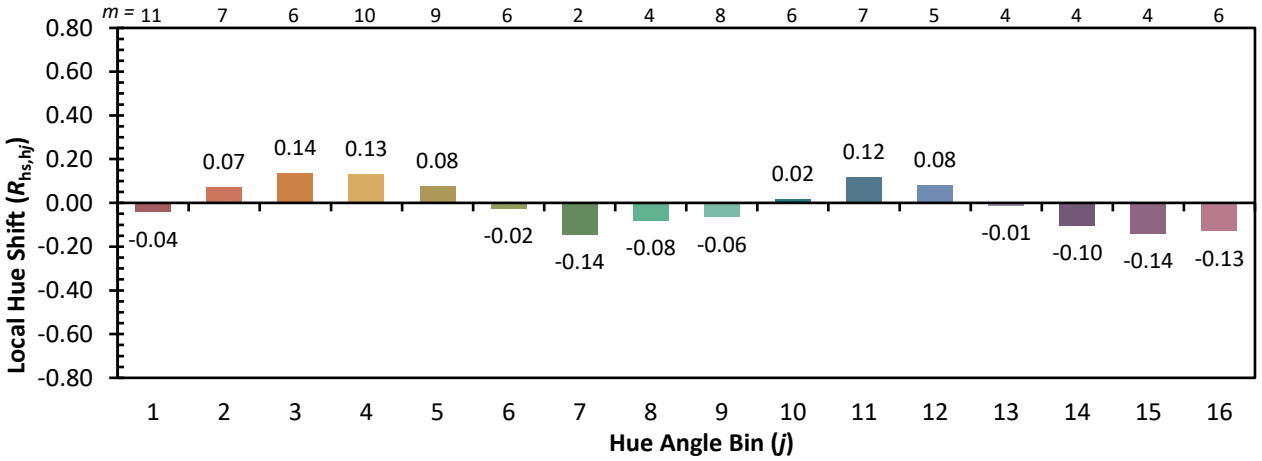
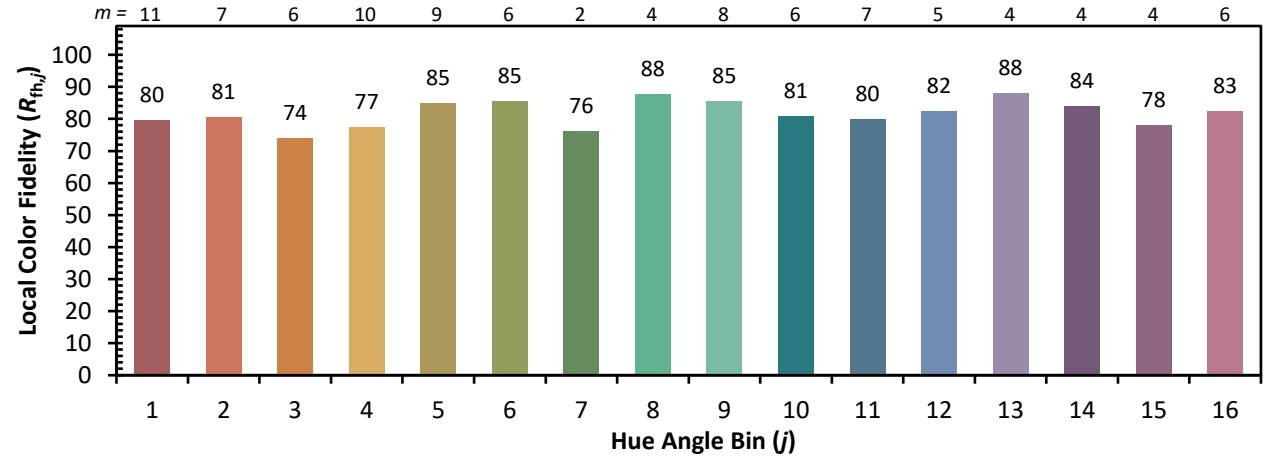
Color Rendition by Hue-Angle Bin







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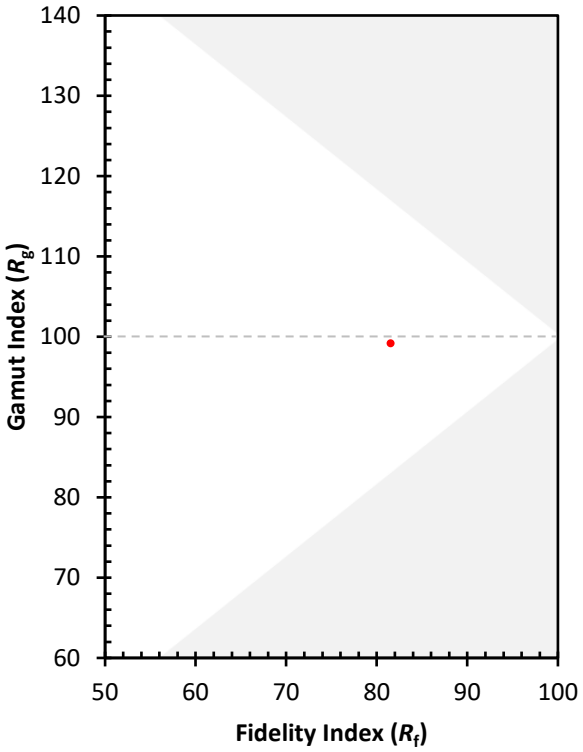
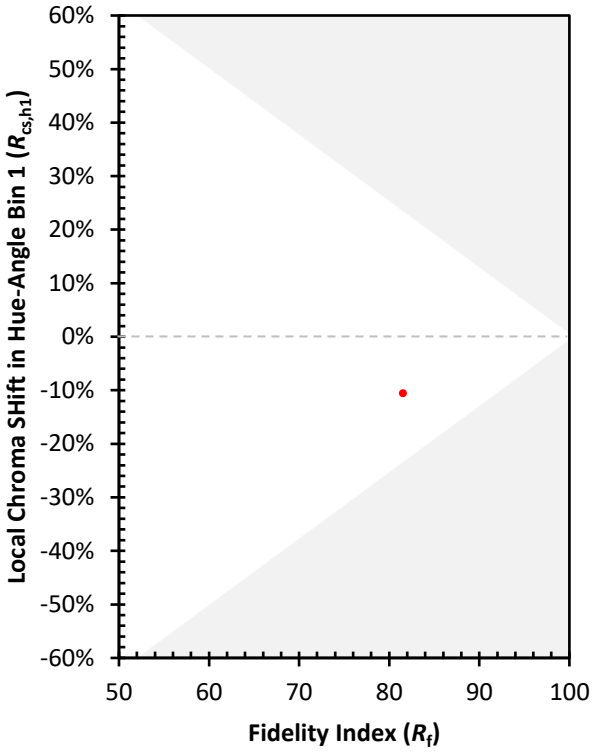
Measure Comparisons





(END OF REPORT)