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: P629594

Luminaire Tested: GWS-SA1B-830-U-T3R-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:	P629594
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1B-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2228.8 lumens
Efficiency:	N/A
Efficacy:	89.2 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B0 - U0 - G1

Input Watts (W):	25
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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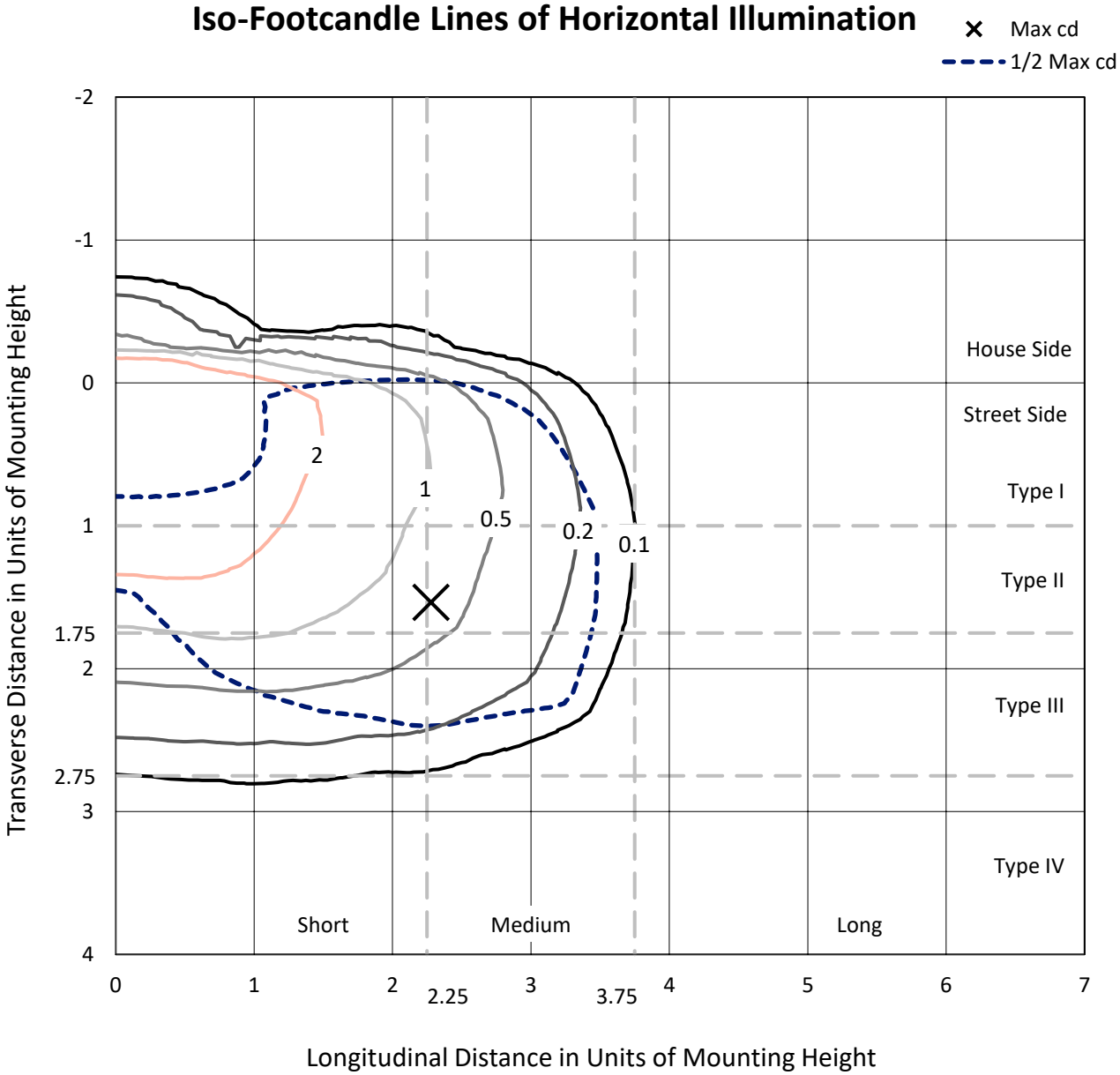
REPORT NUMBER: P629594
CATALOG NUMBER: GWS-SA1B-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Medium - N/A

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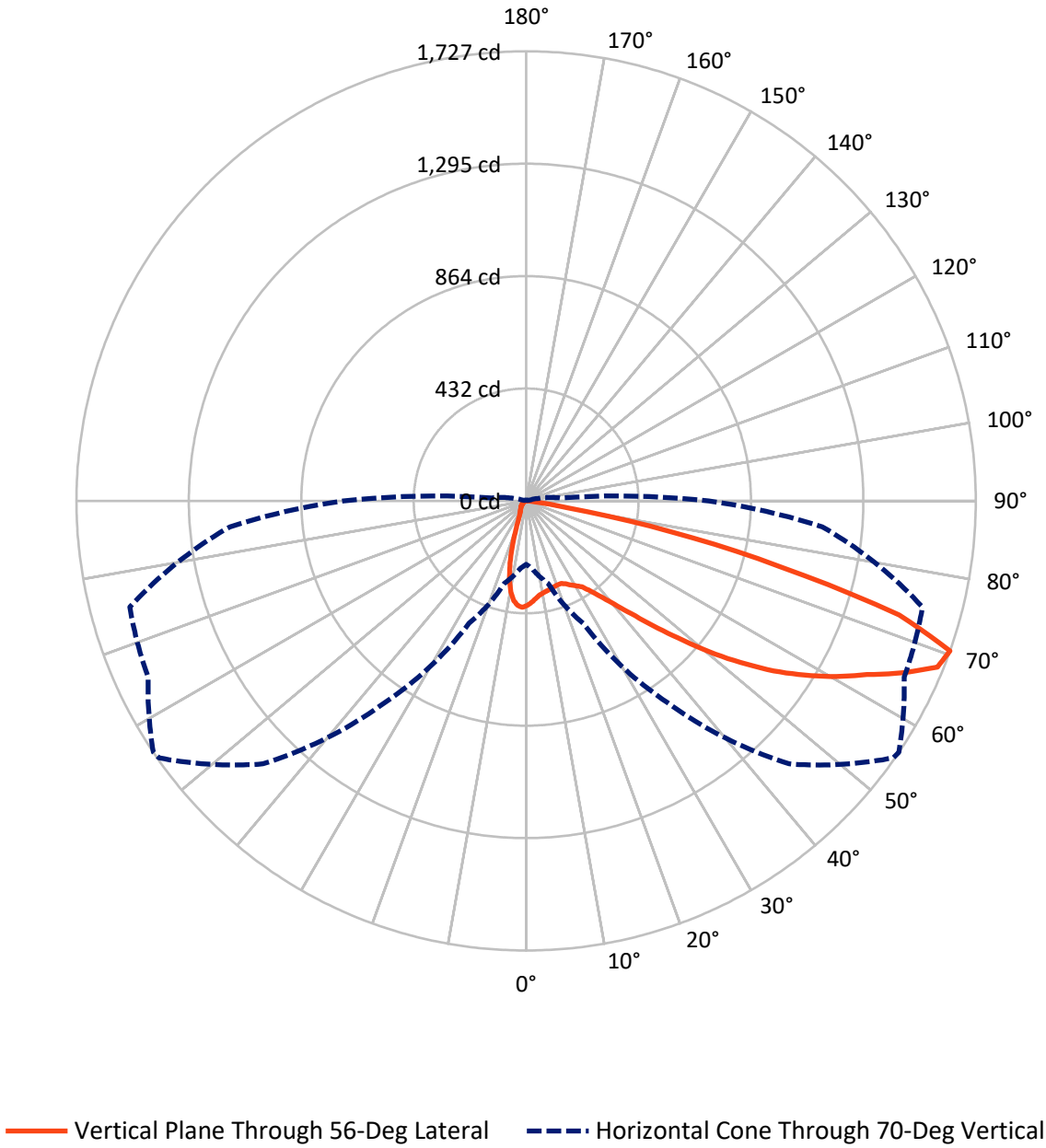
Luminous Intensity Polar Plot



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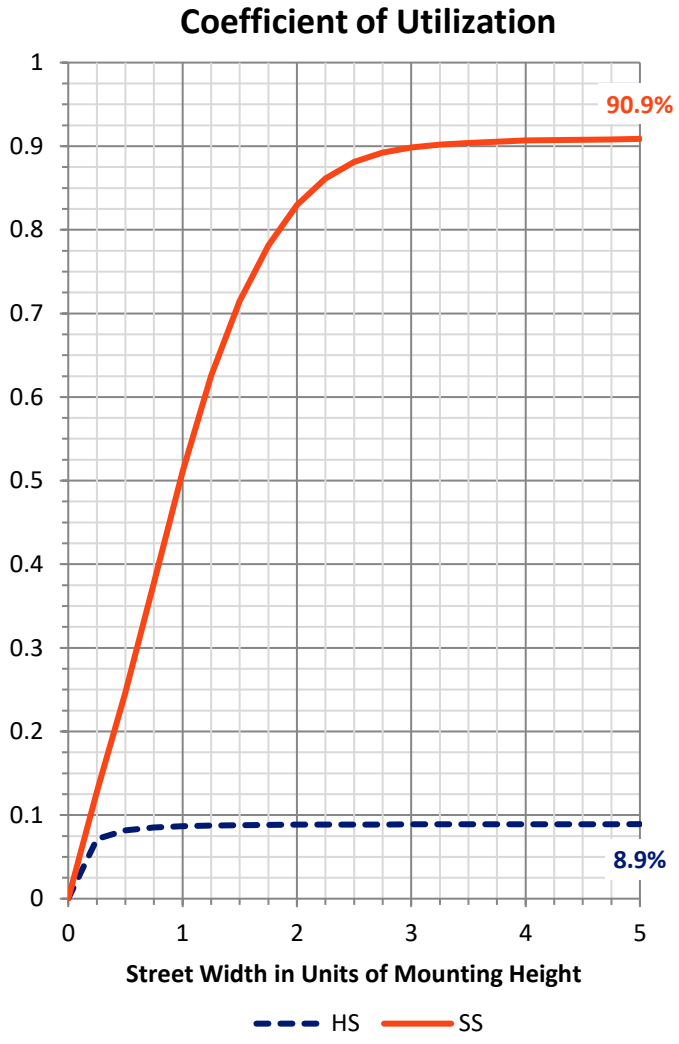
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.2	0.0	200.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	2028.6	0.0	2028.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	2228.8	0.0	2228.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.5
10°-20°	77.6	3.5
20°-30°	122.9	5.5
30°-40°	212.0	9.5
40°-50°	358.0	16.1
50°-60°	526.0	23.6
60°-70°	623.6	28.0
70°-80°	265.9	11.9
80°-90°	8.3	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°	2228.8	100.0
0°-180°	2228.8	100.0



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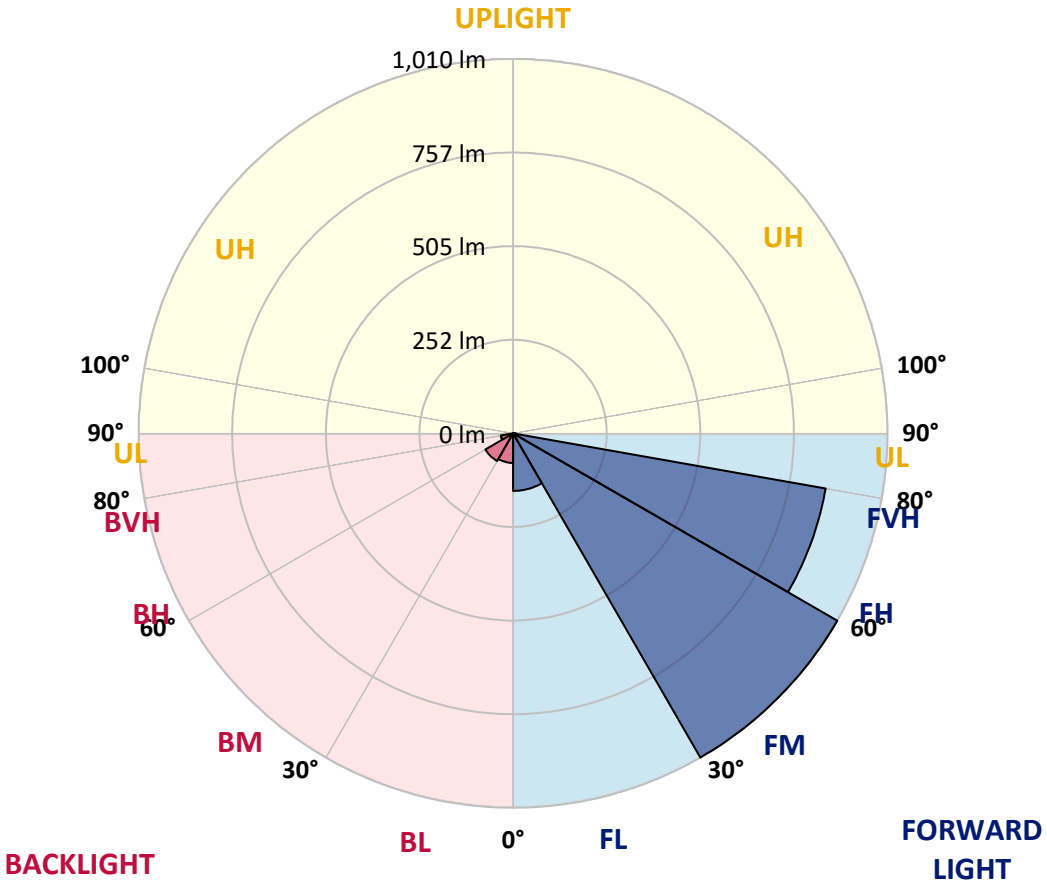
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	155.3	7.0			
FM	(30°-60°)	1009.7	45.3			
FH	(60°-80°)	856.1	38.4			G1/1800
FVH	(80°-90°)	7.5	0.3			G0/10
BL	(0°-30°)	79.7	3.6	B0/110		
BM	(30°-60°)	86.2	3.9	B0/220		
BH	(60°-80°)	33.4	1.5	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Medium



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REPORT NUMBER: P629594
CATALOG NUMBER: GWS-SA1B-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	374.1	373.5	373.9	377.0	382.7	385.3	389.8	390.6	394.3	399.0	400.9
5°	349.8	347.8	348.8	353.1	359.6	367.0	375.3	377.6	386.8	397.2	404.9
7.5°	327.6	325.3	327.8	334.5	343.7	351.7	364.1	365.5	380.2	398.6	412.7
10°	292.7	293.3	298.2	310.0	324.1	340.6	357.4	359.4	377.6	403.3	425.1
12.5°	265.9	264.5	269.8	283.3	303.1	327.2	352.3	354.9	377.8	410.4	441.1
15°	253.5	253.1	255.3	265.1	284.3	312.7	347.6	351.1	380.4	417.0	456.2
17.5°	253.9	253.3	253.1	258.8	273.1	301.9	342.5	347.0	382.7	424.1	472.1
20°	271.7	268.8	263.7	261.0	269.6	294.9	339.0	344.1	386.0	431.7	489.0
22.5°	308.8	309.8	296.2	281.9	277.8	295.7	338.6	344.5	393.1	443.5	509.8
25°	383.1	381.5	356.2	324.1	301.9	305.1	345.7	352.9	407.2	460.5	529.4
27.5°	476.2	477.6	442.9	391.9	345.3	324.5	358.8	366.0	423.5	471.1	542.5
30°	577.6	576.2	539.0	482.5	407.0	356.8	371.9	378.2	431.7	476.8	556.0
32.5°	673.5	670.3	633.5	574.3	485.6	407.6	389.8	393.5	442.5	489.2	574.1
35°	755.4	755.2	723.1	660.1	566.4	471.3	420.7	423.7	462.7	509.0	600.9
37.5°	839.9	837.0	801.1	743.5	649.4	541.1	467.8	466.6	494.5	538.2	633.7
40°	909.3	907.4	879.9	824.6	735.8	618.2	524.9	521.3	532.3	578.6	679.5
42.5°	960.7	960.9	952.3	918.7	827.2	707.4	596.8	591.1	590.9	639.7	739.9
45°	999.7	1002.3	1015.2	1010.1	935.2	811.3	688.8	682.9	672.9	718.8	809.1
47.5°	1017.9	1021.3	1060.1	1080.5	1029.7	914.4	798.4	786.0	766.4	824.2	886.4
50°	1016.0	1022.1	1076.2	1138.3	1115.4	1018.9	917.8	911.9	879.9	935.6	962.9
52.5°	974.4	987.4	1077.2	1173.4	1181.3	1115.2	1041.3	1030.3	1014.8	1051.9	1034.8
55°	861.3	877.2	1034.2	1184.6	1232.8	1199.3	1162.2	1153.2	1127.5	1161.7	1097.5
57.5°	799.9	813.5	943.6	1179.1	1276.4	1277.1	1269.7	1262.4	1241.1	1270.3	1170.9
60°	762.9	776.6	895.2	1158.9	1316.0	1359.1	1370.7	1369.9	1339.3	1393.8	1257.1
62.5°	708.8	727.6	844.8	1106.4	1344.2	1439.9	1475.0	1469.5	1435.4	1522.4	1342.4
65°	599.6	616.0	741.5	1019.9	1327.7	1506.9	1588.1	1591.0	1551.6	1643.4	1409.7
67.5°	420.4	432.5	557.2	838.2	1215.4	1528.9	1703.8	1703.6	1636.5	1705.5	1379.9
70°	243.7	260.2	329.2	518.2	945.6	1428.7	1721.2	1727.1	1602.0	1575.9	1141.9
72.5°	94.3	108.0	186.5	275.3	493.1	1094.4	1480.5	1497.9	1340.7	1215.6	794.8
75°	28.2	31.4	87.8	146.5	198.0	528.6	1002.3	1007.2	919.7	758.2	407.4
77.5°	21.0	23.3	38.4	74.1	69.4	160.2	518.6	566.4	488.2	270.8	112.3
80°	14.3	16.9	27.3	36.1	25.7	42.7	145.7	160.0	149.0	60.8	28.2
82.5°	6.3	8.2	19.4	18.2	9.4	12.2	44.9	47.8	30.8	18.4	9.8
85°	0.6	0.8	7.3	8.0	3.5	2.9	9.4	9.4	6.7	6.3	4.1
87.5°	0.0	0.0	0.2	0.4	0.4	0.6	0.8	1.0	1.2	1.6	2.0
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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Scaled Data Report

REPORT NUMBER: P629594
CATALOG NUMBER: GWS-SA1B-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	405.5	403.1	406.2	408.6	409.2	404.7	402.1	398.2	397.4	397.6	396.6
5°	411.1	409.8	412.1	409.4	402.5	389.4	378.2	365.7	359.0	355.1	354.7
7.5°	421.3	420.7	418.2	406.2	384.5	355.5	327.6	300.2	283.3	277.2	276.1
10°	436.4	435.1	425.1	396.6	350.4	294.7	247.8	208.6	184.7	177.8	169.2
12.5°	453.7	451.3	429.4	376.0	299.0	221.9	163.3	119.4	98.8	92.7	92.7
15°	470.5	465.1	427.0	341.9	235.7	144.3	91.2	69.0	62.7	61.0	61.0
17.5°	487.6	477.4	417.4	295.3	162.9	85.3	60.8	56.5	55.7	55.9	56.1
20°	503.7	487.8	400.4	239.4	103.9	59.6	54.5	53.5	53.1	53.5	53.3
22.5°	521.3	497.4	374.7	178.4	67.6	53.7	51.8	51.0	50.6	51.2	51.2
25°	538.6	504.3	340.6	120.0	53.7	50.0	49.0	48.2	47.8	48.0	48.0
27.5°	547.6	501.7	295.9	76.5	48.2	46.3	45.3	44.3	43.7	43.5	43.7
30°	553.7	493.5	241.2	54.5	43.7	41.4	40.4	39.6	38.0	36.9	37.4
32.5°	563.3	485.4	181.9	45.7	40.0	36.5	34.9	32.9	30.6	29.6	29.6
35°	574.7	474.1	127.6	41.2	36.1	32.5	29.4	25.9	23.3	22.5	22.5
37.5°	589.9	463.5	84.9	38.2	32.9	29.0	24.7	20.6	17.8	17.3	17.1
40°	612.5	454.5	59.8	35.9	30.0	25.3	20.2	15.9	13.9	13.3	13.3
42.5°	641.9	445.3	47.4	33.7	27.6	21.8	16.1	12.7	11.0	10.6	10.4
45°	678.2	434.5	41.2	31.6	25.1	18.2	12.9	10.6	9.4	9.0	9.0
47.5°	717.6	419.8	38.4	29.0	22.2	14.7	10.8	9.2	8.6	8.4	8.2
50°	756.4	400.0	35.9	26.5	19.0	12.0	9.4	8.4	8.0	7.8	7.8
52.5°	790.3	377.0	32.9	23.7	15.5	10.4	8.4	7.8	7.3	6.9	6.7
55°	819.3	351.9	29.0	20.4	12.7	9.2	7.8	7.1	6.7	6.3	6.1
57.5°	856.6	337.6	23.3	16.5	10.4	8.2	7.1	6.5	6.1	5.5	5.5
60°	898.0	327.2	17.3	13.1	9.0	7.6	6.5	5.9	5.5	4.9	4.9
62.5°	931.3	311.7	13.7	10.6	7.8	6.7	5.9	5.3	4.9	4.3	4.3
65°	944.0	279.6	11.2	8.4	6.3	5.9	5.3	4.9	4.3	3.7	3.7
67.5°	886.8	215.5	9.4	6.7	5.3	5.1	4.7	4.5	3.7	3.3	3.1
70°	*702.3*	*131.4*	*7.8*	*5.5*	*4.5*	*4.3*	*4.3*	*3.9*	*3.3*	*3.1*	*2.9*
72.5°	481.3	67.8	6.3	4.5	3.9	3.9	3.7	3.5	3.1	2.9	2.9
75°	250.0	22.7	4.9	3.5	3.1	3.3	3.3	3.1	2.9	2.9	2.7
77.5°	71.6	10.2	3.7	2.7	2.4	2.4	2.7	2.7	2.7	2.4	2.4
80°	18.6	5.9	2.7	2.0	2.0	2.0	2.0	2.2	2.4	2.2	2.2
82.5°	7.6	3.3	1.8	1.6	1.6	1.6	1.6	1.8	2.0	2.0	2.0
85°	4.7	1.6	1.4	1.4	1.4	1.2	1.2	1.4	1.4	1.6	1.6
87.5°	2.9	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	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

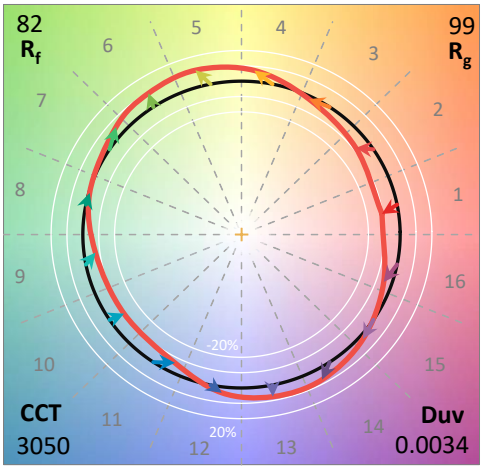
Test Information

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

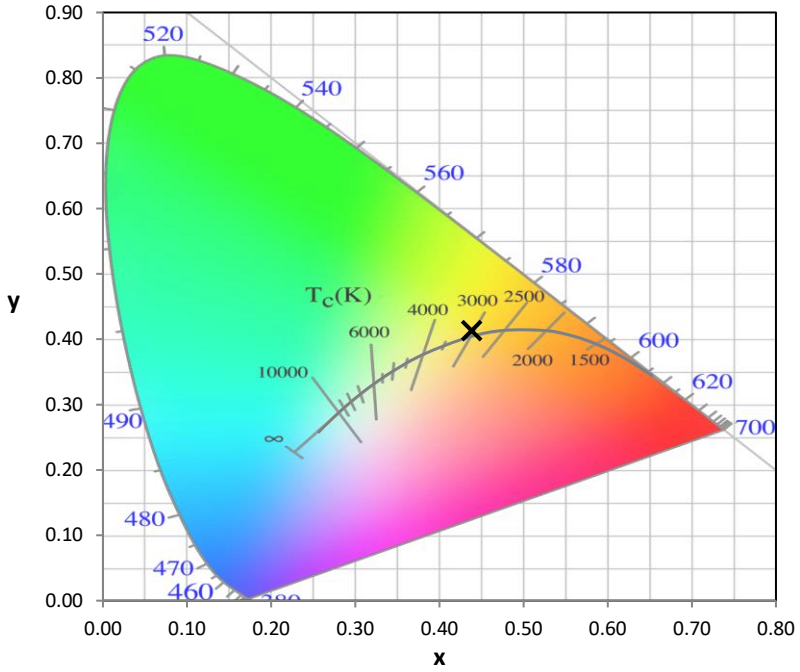
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

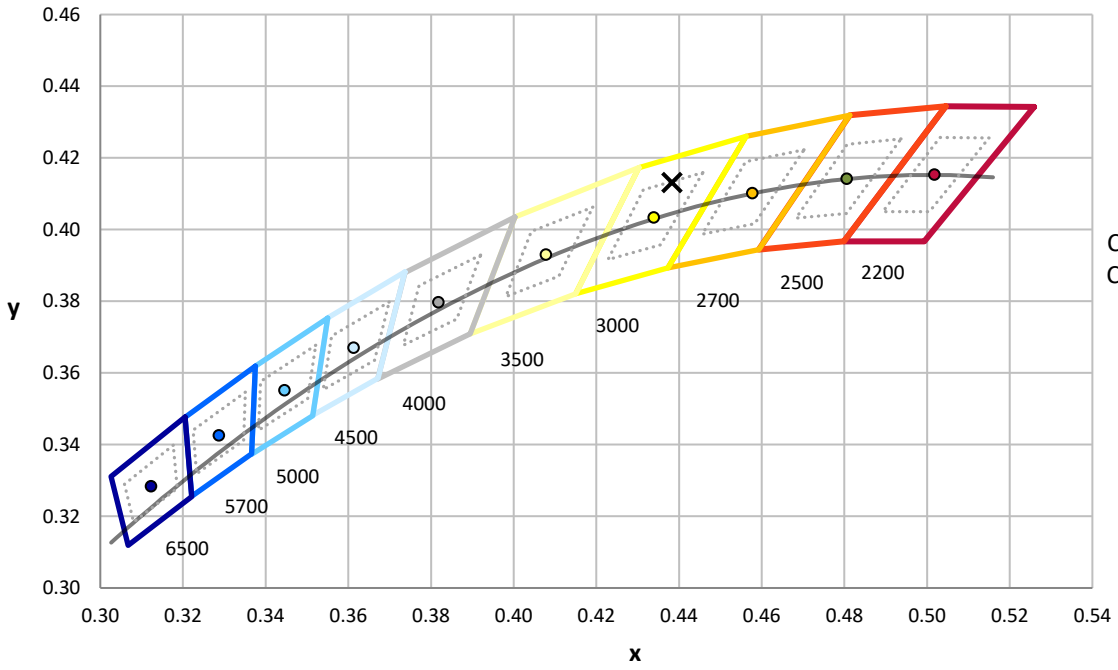
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

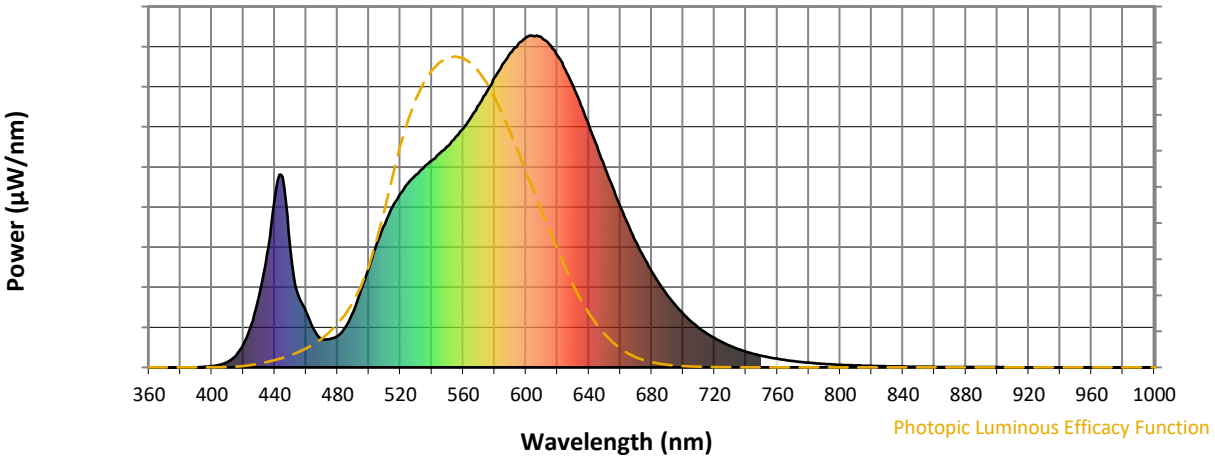


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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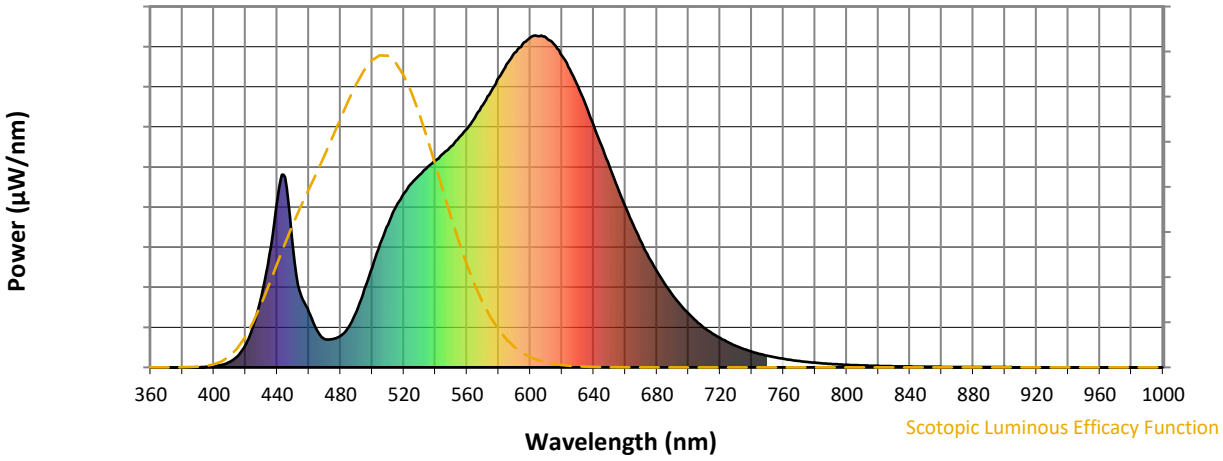
Scotopic Flux vs. Wavelength



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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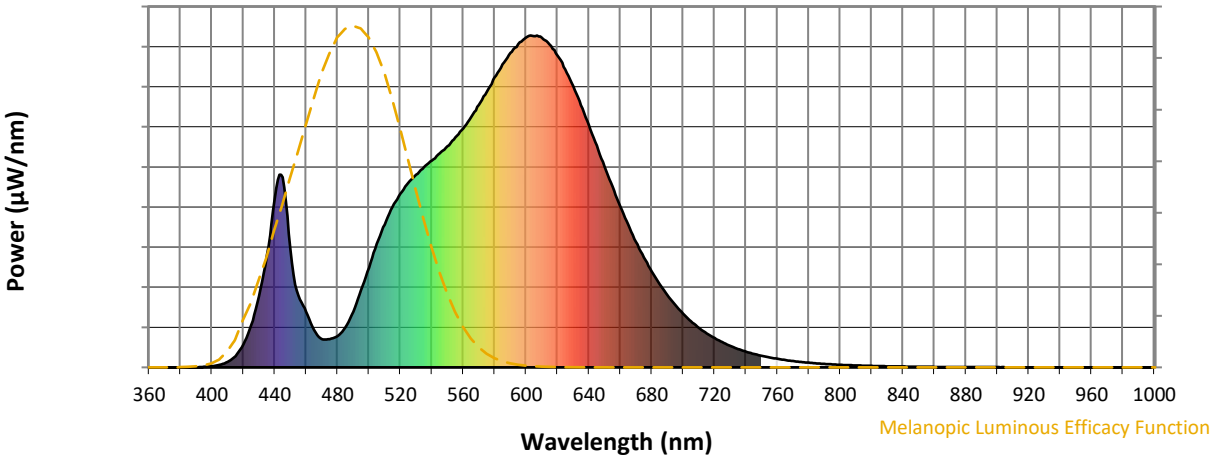
Melanopic Flux vs. Wavelength



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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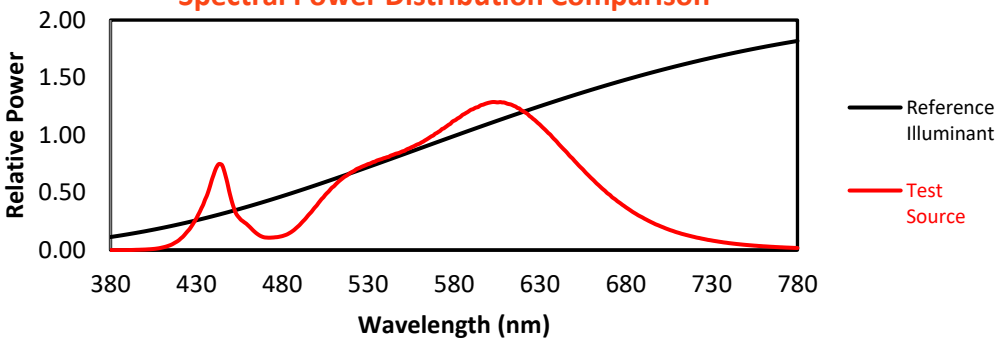
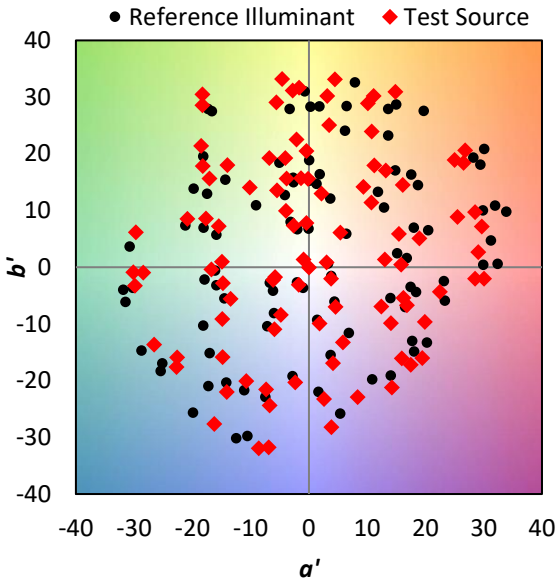
Summary

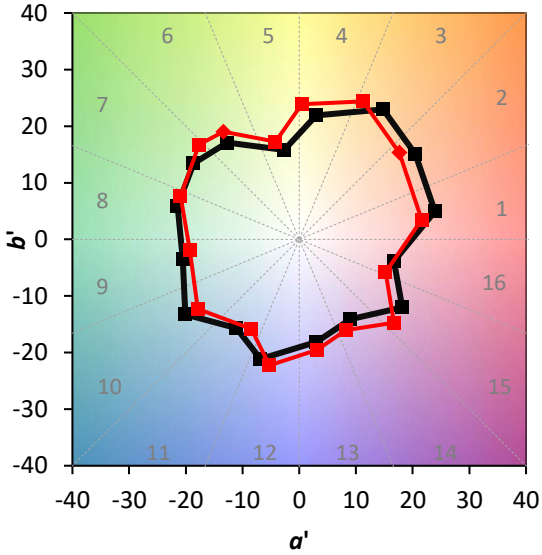
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

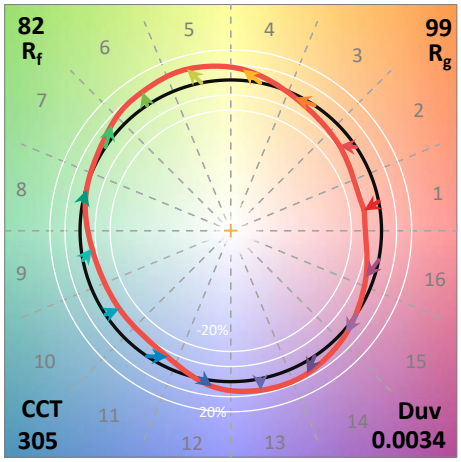
Spectral Power Distribution Comparison

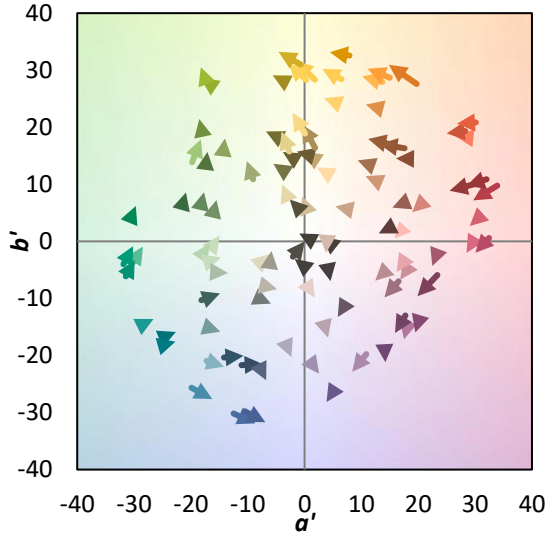


Color Vector Graphics









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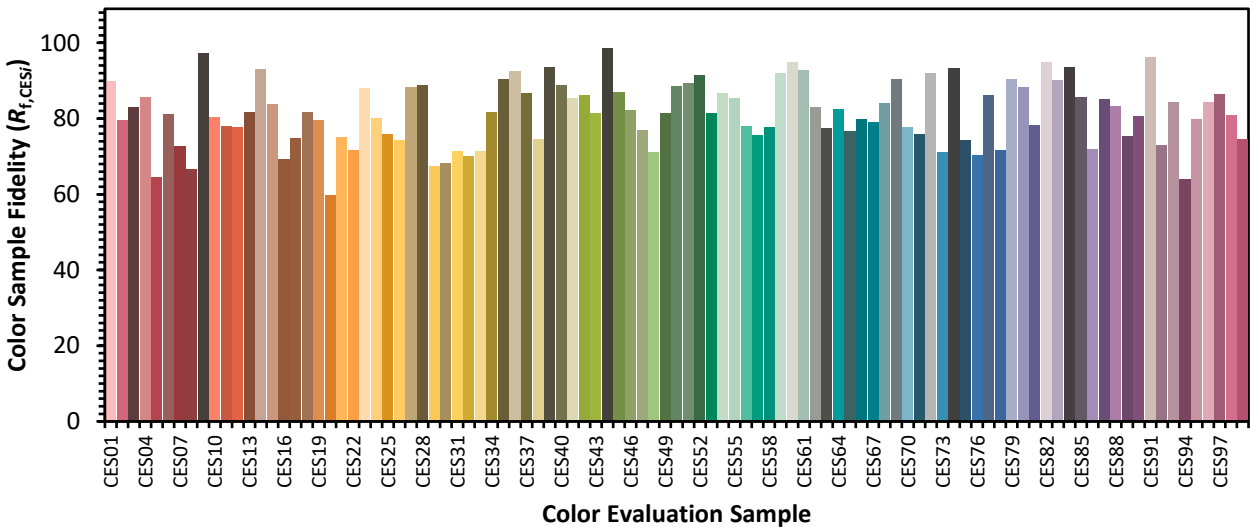
Individual Sample Fidelity Index ($R_{f,i}$)

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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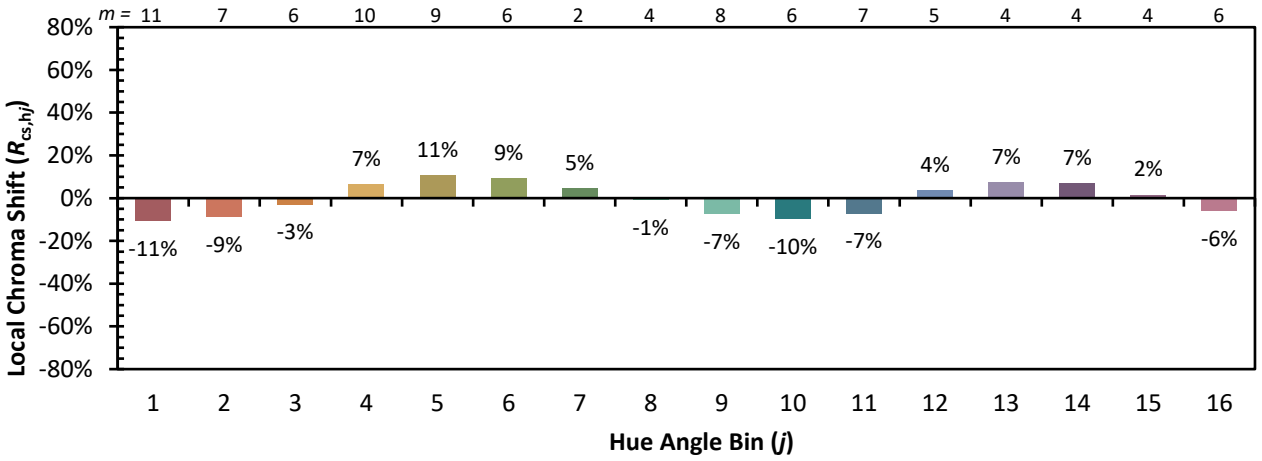
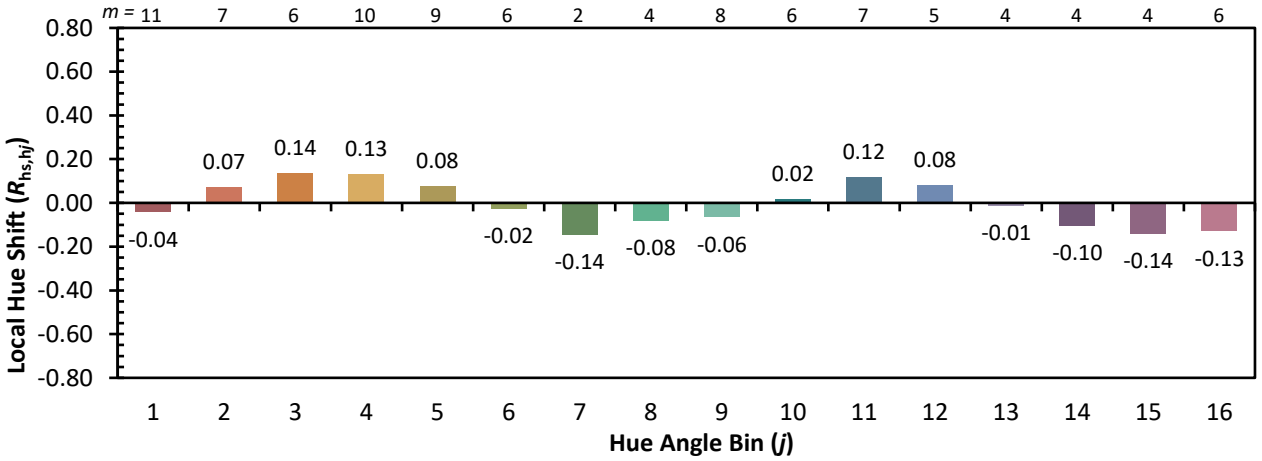
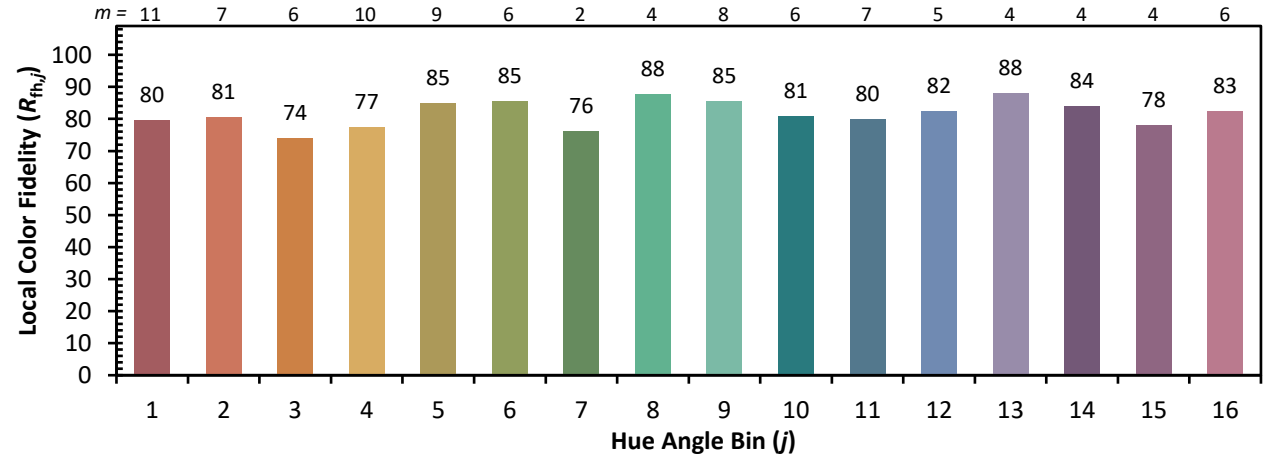
Color Rendition by Hue-Angle Bin







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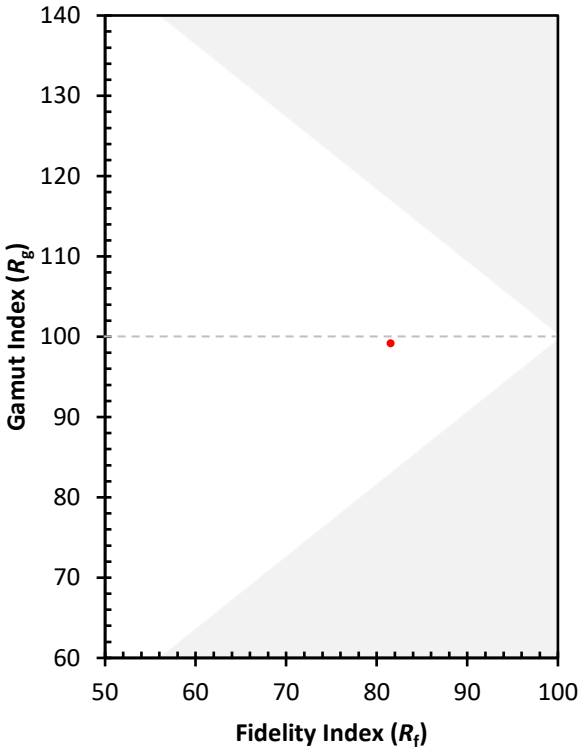
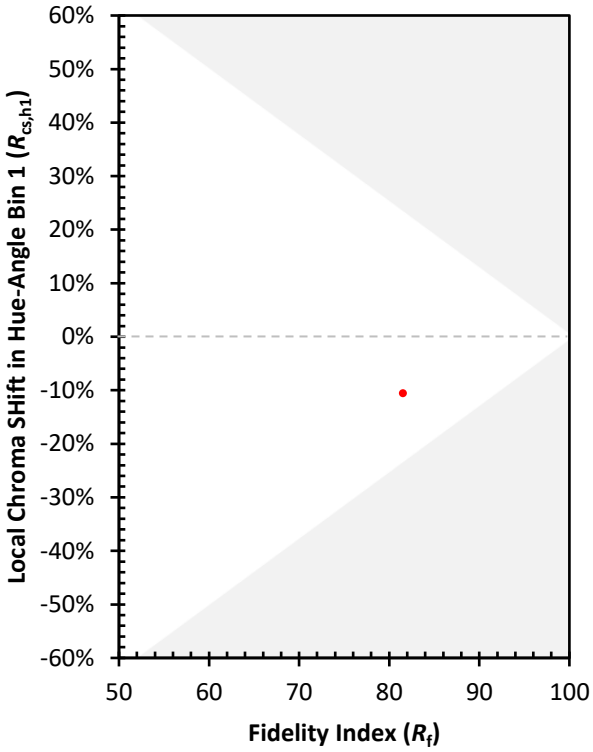
Measure Comparisons





(END OF REPORT)