Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: INVUE

Report Number: P869190

Luminaire Tested: **EMM2-HTN-SA2A-AMB-U-T2R**

Issue Date: 08/22/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P869190
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-SA2A-AMB-U-T2R
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 30W 0CRI 1540K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source:	(20) 1540K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1077.5 lumens
Efficiency:	N/A
Efficacy:	35.9 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	30
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.04%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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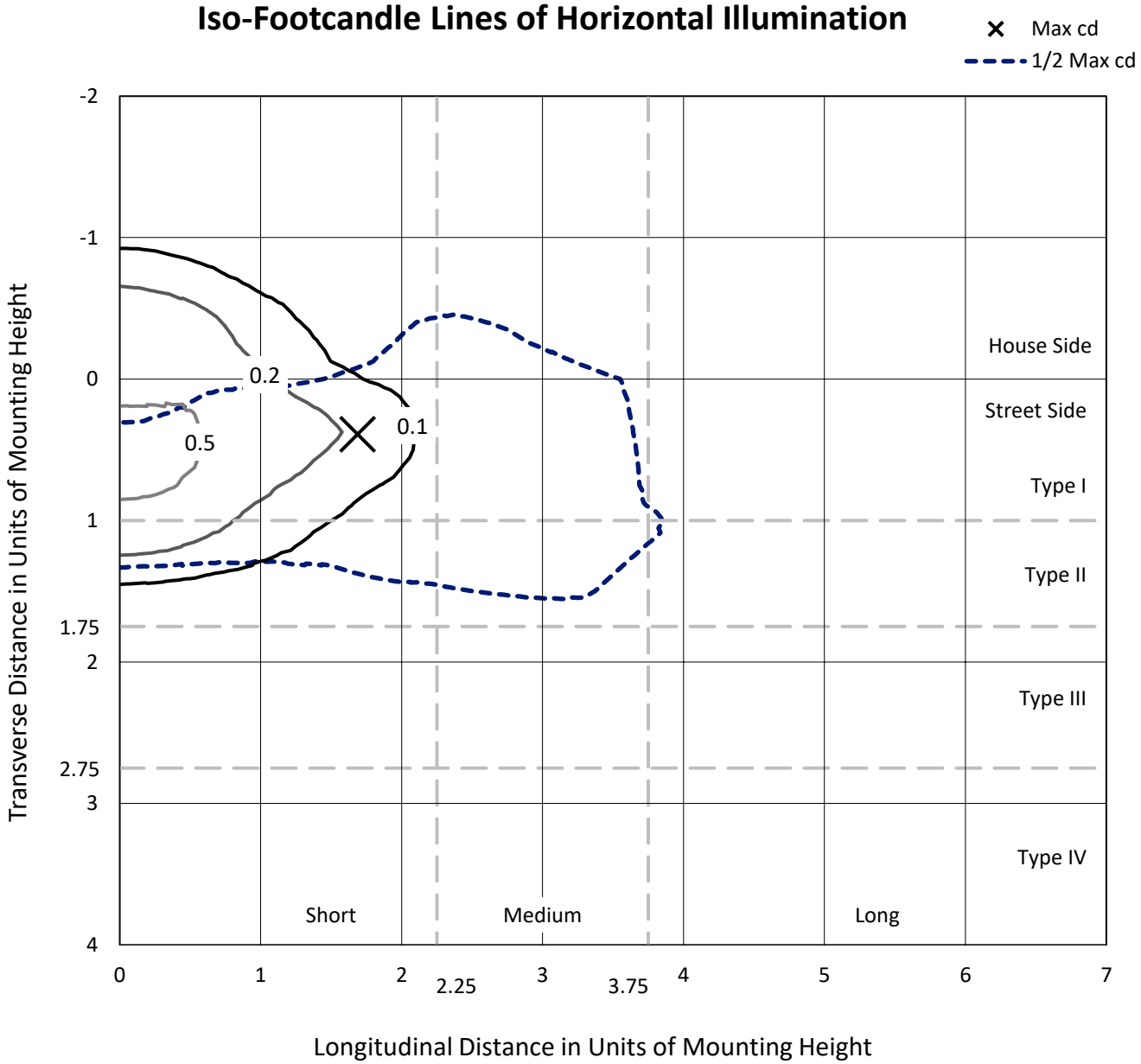
REPORT NUMBER: P869190
CATALOG NUMBER: EMM2-HTN-SA2A-AMB-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 0.7 fc
Type II - Short - N/A

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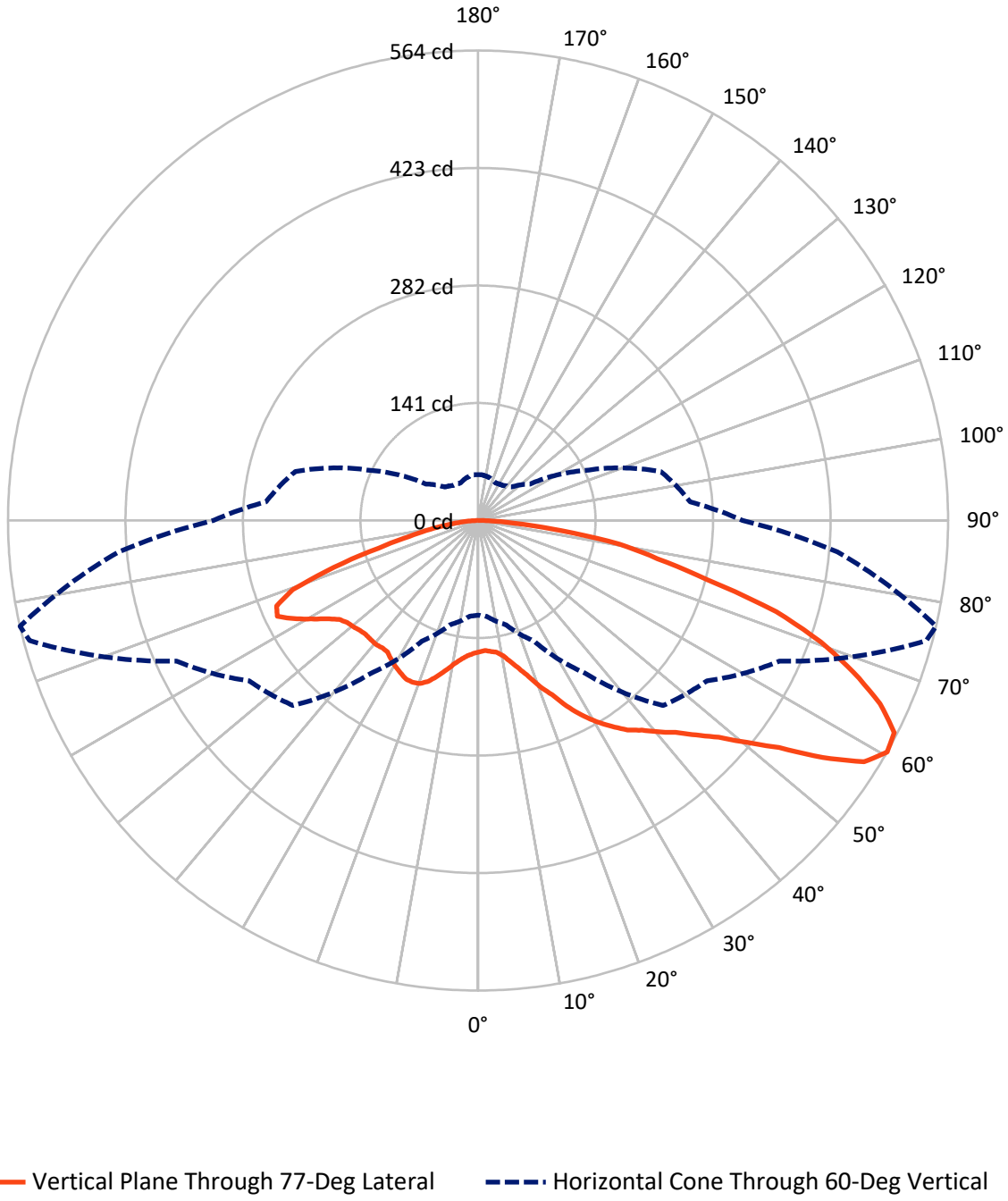
Luminous Intensity Polar Plot



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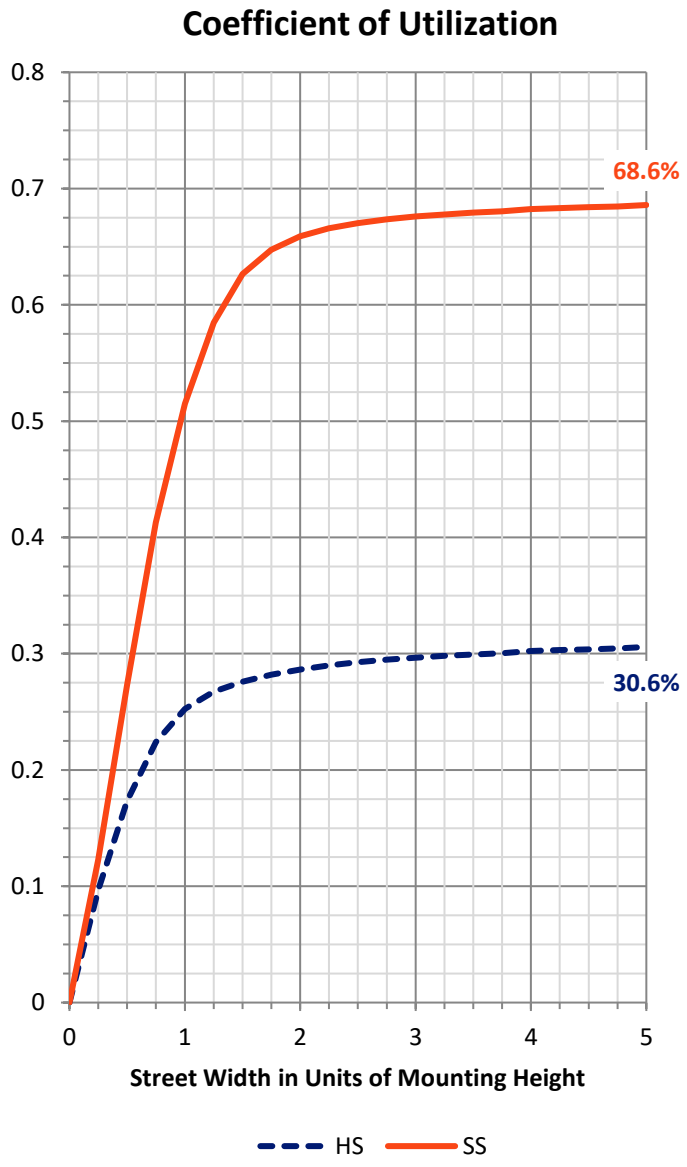
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.1	0.0	335.1
	% Fixture	31.1	0.0	31.1
Street Side	Lumens	742.4	0.0	742.4
	% Fixture	68.9	0.0	68.9
Total	Lumens	1077.5	0.0	1077.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	1.5
10°-20°	59.7	5.5
20°-30°	113.5	10.5
30°-40°	170.8	15.9
40°-50°	208.3	19.3
50°-60°	203.1	18.8
60°-70°	178.7	16.6
70°-80°	102.5	9.5
80°-90°	24.8	2.3
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°	1077.5	100.0
0°-180°	1077.5	100.0



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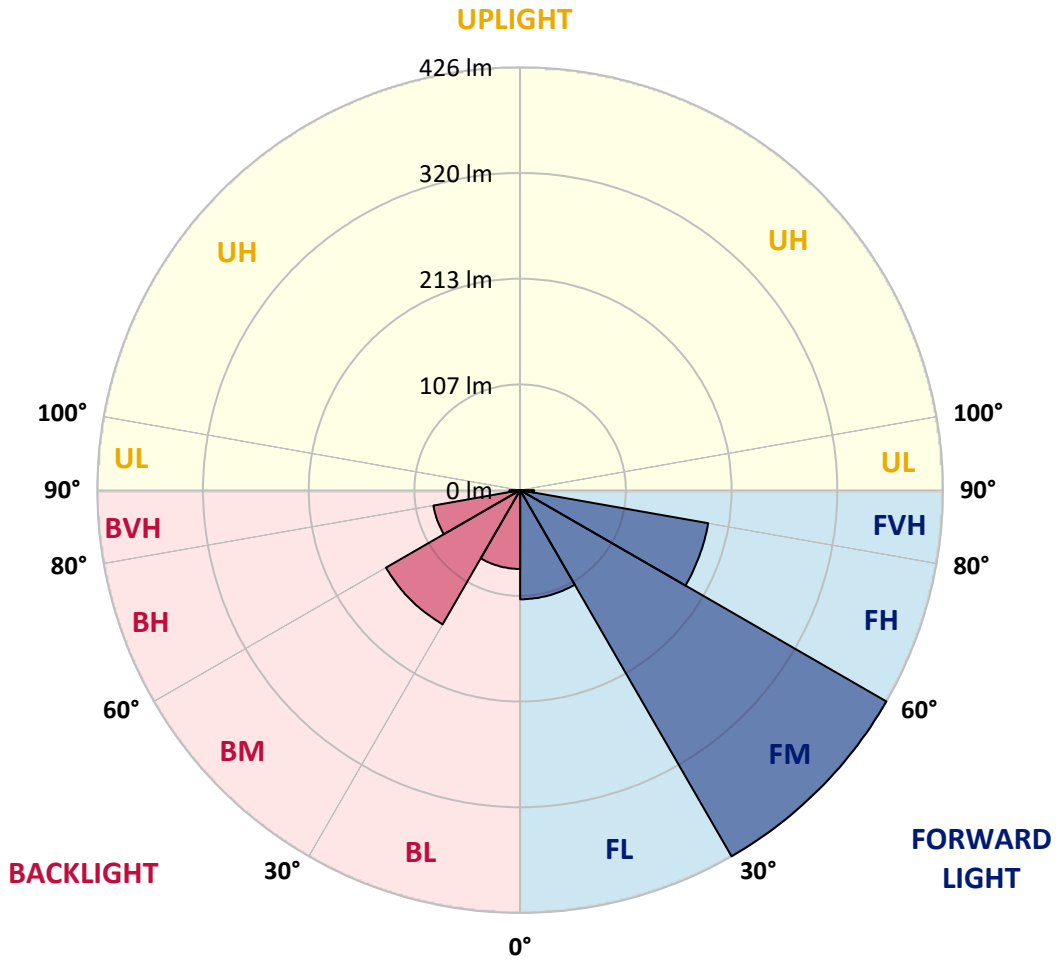
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	110.0	10.2			
FM	(30°-60°)	426.0	39.5			
FH	(60°-80°)	192.4	17.9			G0/660
FVH	(80°-90°)	14.0	1.3			G1/100
BL	(0°-30°)	79.4	7.4	B0/110		
BM	(30°-60°)	156.1	14.5	B0/220		
BH	(60°-80°)	88.8	8.2	B0/110		G0/110
BVH	(80°-90°)	10.7	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type II Short



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REPORT NUMBER: P869190
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	*157.8*	157.8
2.5°	154.3	154.3	154.3	154.3	154.3	156.1	156.1	156.1	156.1	*156.1*	157.8
5°	159.6	159.6	157.8	157.8	157.8	157.8	156.1	156.1	157.8	*157.8*	159.6
7.5°	172.0	172.0	172.0	168.5	166.7	163.2	161.4	159.6	159.6	*159.6*	161.4
10°	196.8	196.8	195.1	188.0	182.7	175.6	170.2	166.7	164.9	*164.9*	166.7
12.5°	232.3	230.5	227.0	218.1	205.7	196.8	184.4	177.3	173.8	*173.8*	173.8
15°	266.0	264.2	260.7	250.0	237.6	219.9	203.9	191.5	186.2	*184.4*	184.4
17.5°	287.3	287.3	285.5	278.4	267.8	248.3	227.0	207.5	196.8	*196.8*	196.8
20°	305.0	303.2	301.5	296.2	289.1	276.6	253.6	228.8	212.8	*212.8*	209.3
22.5°	326.3	324.5	317.4	310.3	305.0	297.9	278.4	250.0	230.5	*227.0*	221.7
25°	352.9	349.4	340.5	329.8	321.0	315.7	297.9	271.3	250.0	*246.5*	234.1
27.5°	379.5	376.0	365.3	352.9	338.7	324.5	312.1	292.6	269.6	*264.2*	244.7
30°	400.8	397.2	390.1	376.0	358.2	342.3	326.3	310.3	285.5	*280.2*	255.4
32.5°	434.5	432.7	418.5	397.2	383.1	363.5	344.0	328.1	299.7	*294.4*	264.2
35°	477.0	471.7	461.1	427.4	402.6	384.8	367.1	344.0	313.9	*308.6*	271.3
37.5°	482.4	480.6	480.6	461.1	430.9	406.1	388.4	365.3	328.1	*319.2*	276.6
40°	461.1	459.3	464.6	462.9	448.7	429.2	409.7	388.4	342.3	*333.4*	283.7
42.5°	427.4	427.4	436.3	438.0	438.0	446.9	436.3	409.7	360.0	*347.6*	282.0
45°	404.3	400.8	404.3	407.9	411.4	434.5	455.8	430.9	379.5	*367.1*	285.5
47.5°	379.5	377.7	377.7	379.5	383.1	404.3	454.0	462.9	404.3	*388.4*	294.4
50°	354.7	349.4	349.4	352.9	358.2	365.3	430.9	484.1	436.3	*418.5*	308.6
52.5°	297.9	301.5	313.9	328.1	342.3	338.7	390.1	480.6	475.3	*452.2*	328.1
55°	225.2	219.9	244.7	287.3	324.5	326.3	347.6	459.3	519.6	*501.9*	354.7
57.5°	159.6	161.4	177.3	218.1	290.8	324.5	329.8	427.4	549.7	*546.2*	390.1
60°	*113.5*	*115.3*	*129.5*	*159.6*	*223.4*	*313.9*	*335.2*	*399.0*	*556.8*	*563.9*	*432.7*
62.5°	85.1	85.1	92.2	113.5	159.6	264.2	356.4	395.5	546.2	*560.4*	469.9
65°	65.6	67.4	70.9	86.9	115.3	184.4	361.8	425.6	519.6	*530.2*	484.1
67.5°	53.2	55.0	58.5	65.6	83.3	124.1	303.2	468.2	468.2	*485.9*	462.9
70°	46.1	46.1	47.9	55.0	65.6	88.7	212.8	462.9	423.8	*436.3*	407.9
72.5°	39.0	40.8	42.6	46.1	53.2	67.4	138.3	367.1	390.1	*374.2*	333.4
75°	31.9	31.9	35.5	39.0	42.6	53.2	86.9	267.8	312.1	*283.7*	269.6
77.5°	28.4	28.4	30.1	33.7	37.2	40.8	60.3	163.2	234.1	*219.9*	200.4
80°	23.1	24.8	24.8	28.4	30.1	31.9	39.0	88.7	164.9	*172.0*	124.1
82.5°	21.3	21.3	21.3	23.1	24.8	24.8	28.4	46.1	90.4	*101.1*	63.8
85°	16.0	16.0	16.0	17.7	17.7	17.7	19.5	23.1	40.8	*44.3*	31.9
87.5°	7.1	7.1	7.1	8.9	8.9	8.9	10.6	8.9	14.2	*16.0*	12.4
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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Scaled Data Report

REPORT NUMBER: P869190
CATALOG NUMBER: EMM2-HTN-SA2A-AMB-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	157.8	159.6	159.6	161.4	163.2	163.2	163.2	163.2	164.9	164.9	164.9
5°	159.6	161.4	163.2	166.7	168.5	170.2	172.0	172.0	173.8	173.8	172.0
7.5°	163.2	164.9	168.5	172.0	177.3	179.1	180.9	180.9	180.9	180.9	180.9
10°	168.5	170.2	175.6	180.9	184.4	188.0	189.8	188.0	188.0	188.0	188.0
12.5°	177.3	179.1	184.4	189.8	193.3	196.8	195.1	195.1	193.3	193.3	193.3
15°	188.0	188.0	193.3	198.6	200.4	202.2	198.6	196.8	196.8	195.1	196.8
17.5°	198.6	198.6	202.2	203.9	203.9	200.4	198.6	195.1	195.1	195.1	195.1
20°	207.5	207.5	207.5	203.9	200.4	196.8	195.1	191.5	191.5	193.3	193.3
22.5°	219.9	216.4	207.5	202.2	195.1	191.5	188.0	184.4	184.4	186.2	186.2
25°	228.8	221.7	205.7	196.8	189.8	182.7	179.1	175.6	175.6	175.6	177.3
27.5°	234.1	223.4	200.4	189.8	182.7	175.6	170.2	166.7	163.2	163.2	163.2
30°	239.4	225.2	195.1	184.4	179.1	170.2	161.4	156.1	152.5	150.7	149.0
32.5°	243.0	223.4	189.8	179.1	175.6	166.7	154.3	145.4	140.1	138.3	138.3
35°	246.5	219.9	184.4	177.3	175.6	161.4	147.2	136.6	131.2	127.7	129.5
37.5°	246.5	218.1	184.4	179.1	172.0	156.1	140.1	129.5	124.1	118.8	118.8
40°	248.3	218.1	186.2	179.1	166.7	149.0	134.8	120.6	113.5	108.2	108.2
42.5°	246.5	216.4	186.2	179.1	161.4	141.9	124.1	111.7	104.6	101.1	101.1
45°	244.7	214.6	186.2	175.6	152.5	131.2	111.7	99.3	95.8	94.0	92.2
47.5°	244.7	214.6	188.0	173.8	141.9	115.3	95.8	88.7	85.1	81.6	79.8
50°	251.8	216.4	191.5	172.0	127.7	99.3	81.6	74.5	70.9	69.2	69.2
52.5°	260.7	221.7	193.3	166.7	113.5	86.9	70.9	63.8	62.1	60.3	60.3
55°	274.9	227.0	198.6	157.8	101.1	74.5	62.1	56.7	55.0	55.0	55.0
57.5°	294.4	237.6	211.0	150.7	90.4	63.8	55.0	51.4	53.2	55.0	55.0
60°	*317.4*	*255.4*	*227.0*	*141.9*	*76.3*	*56.7*	*51.4*	*49.7*	*53.2*	*55.0*	*55.0*
62.5°	345.8	282.0	243.0	133.0	65.6	49.7	47.9	49.7	51.4	55.0	55.0
65°	379.5	312.1	255.4	122.4	55.0	44.3	46.1	47.9	49.7	55.0	55.0
67.5°	395.5	326.3	246.5	106.4	46.1	40.8	44.3	46.1	49.7	53.2	53.2
70°	368.9	299.7	221.7	81.6	39.0	39.0	40.8	42.6	46.1	51.4	51.4
72.5°	308.6	250.0	164.9	55.0	33.7	35.5	37.2	40.8	44.3	49.7	49.7
75°	266.0	200.4	104.6	37.2	28.4	31.9	35.5	39.0	40.8	46.1	46.1
77.5°	212.8	159.6	65.6	28.4	24.8	28.4	31.9	35.5	37.2	39.0	39.0
80°	140.1	118.8	42.6	21.3	21.3	24.8	28.4	31.9	31.9	35.5	35.5
82.5°	70.9	69.2	28.4	17.7	17.7	21.3	24.8	26.6	28.4	31.9	31.9
85°	31.9	33.7	17.7	12.4	12.4	17.7	19.5	21.3	23.1	21.3	21.3
87.5°	10.6	10.6	8.9	5.3	7.1	8.9	10.6	12.4	12.4	8.9	8.9
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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Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-1

Test Date: 08/06/2024

Luminaire Tested: MEM2-HTN-SA-45-AMB-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-45-AMB-U-5WQ-2

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

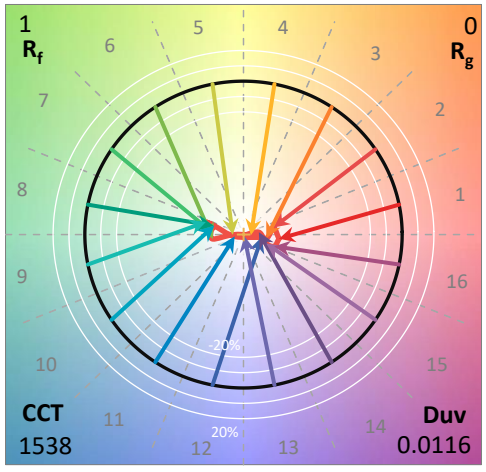
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-45-AMB-U-5WQ-2**
Description:	Epic Modern Light Square 45W 5WQ Optic and Flare Trim AMBER LED

Spectral Parameters

CCT (K):	1538
CIE u':	0.3530
CIE v':	0.5469
Duv:	0.0116
CIE x:	0.5918
CIE y:	0.4076
CIE z:	0.0006
Peak Wavelength (nm):	597
Dominant Wavelength (nm):	592
Purity:	99.98881
Rf:	1.1
Rg:	0

CRI (Ra):	-21.8				
R1:	-34.3	R9:	-386.6		
R2:	52.3	R10:	28.9		
R3:	17.0	R11:	-95.5		
R4:	-68.4	R12:	-10.5		
R5:	-40.8	R13:	-15.5		
R6:	41.5	R14:	45.9		
R7:	-7.2	R15:	-67.7		
R8:	-134.5				



Test Conditions

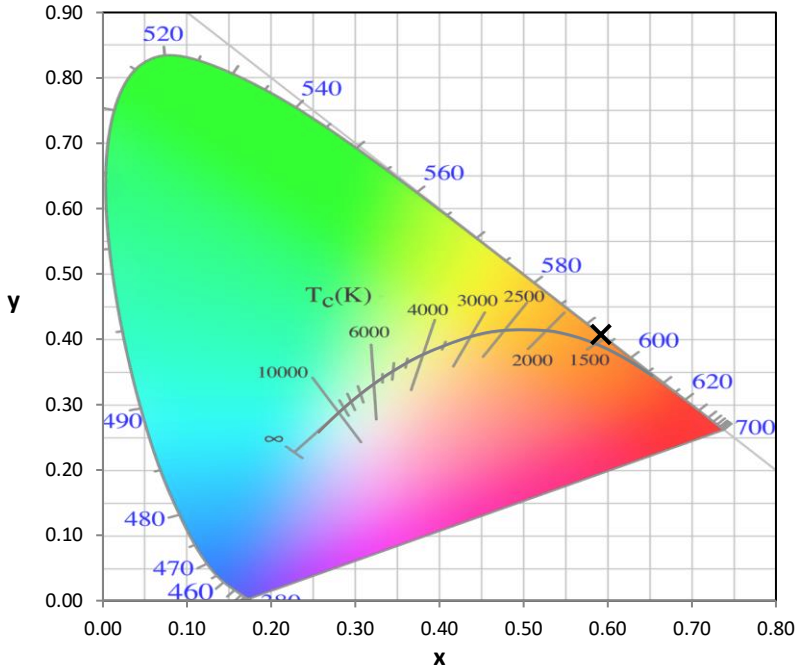
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-1

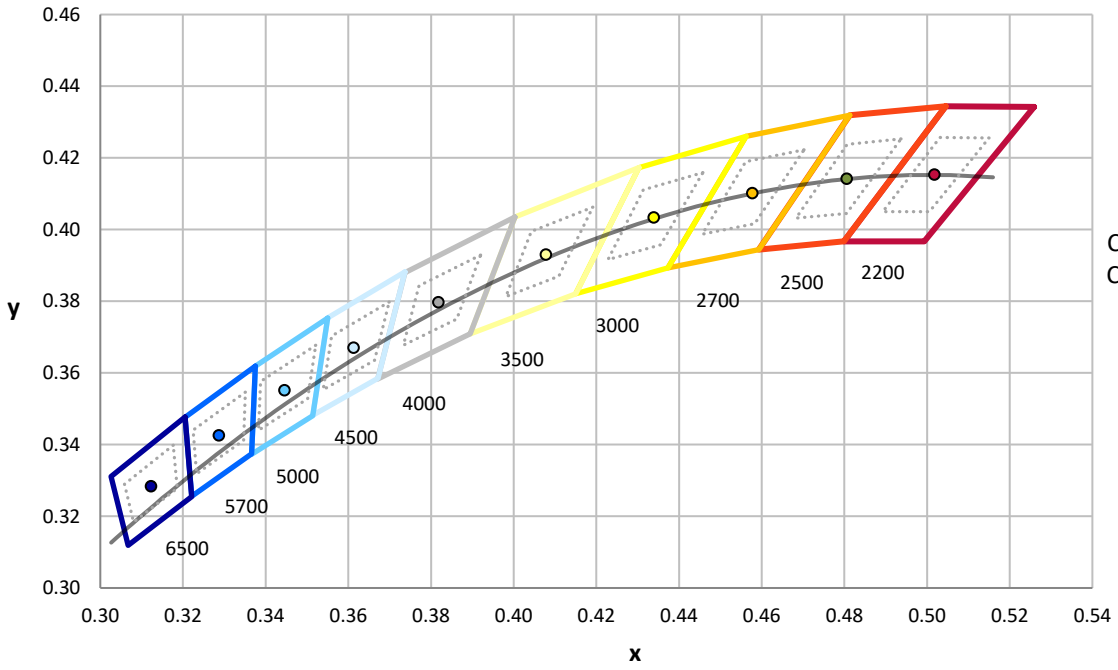
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-157-1

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

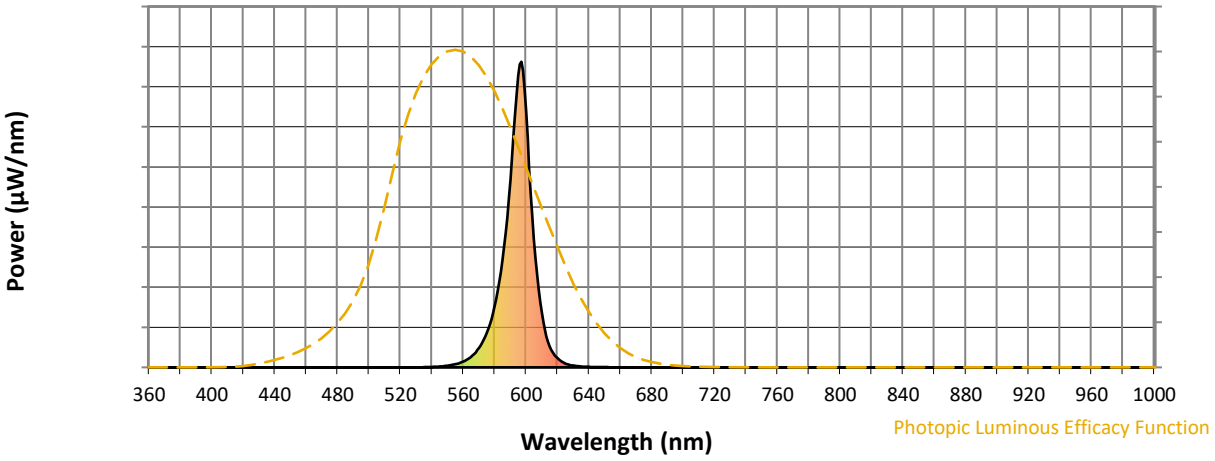


CCT = 1538K
CIE x = 0.5918
CIE y = 0.4076
Duv = 0.0116

Point lies outside the range

REPORT NUMBER: SP1-2407-157-1

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	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	3	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	2	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	1	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	0	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	0	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	0	NR	795	0	NR	925	0	NR
410	0	NR	540	1	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	3	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	5	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	10	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	19	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	34	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	63	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	113	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	199	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	352	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	614	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	954	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	837	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	417	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	179	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	69	NR	745	0	NR	875	0	NR			

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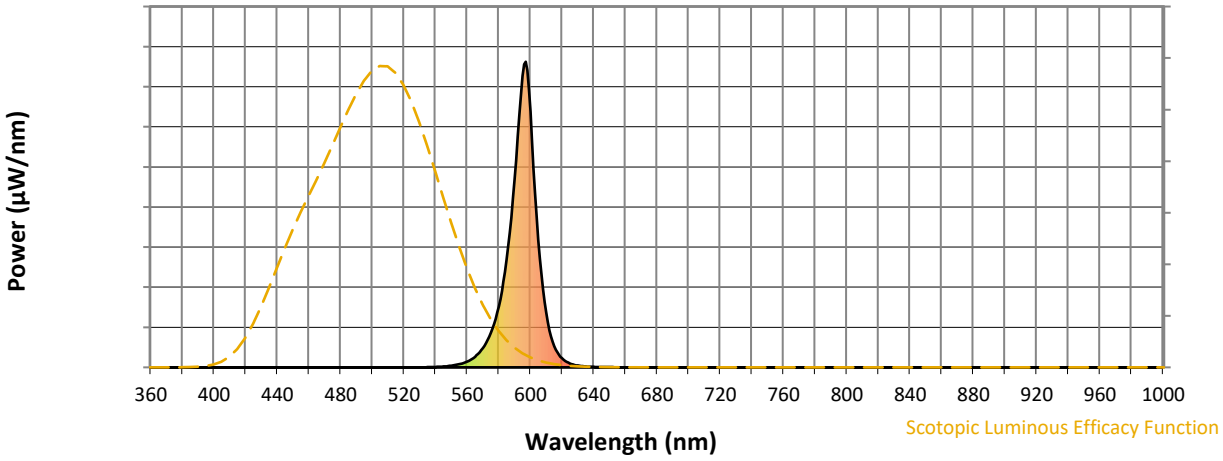
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.22**

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	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	3	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	2	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	1	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	0	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	0	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	0	NR	795	0	NR	925	0	NR
410	0	NR	540	1	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	3	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	5	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	10	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	19	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	34	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	63	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	113	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	199	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	352	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	614	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	954	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	837	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	417	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	179	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	69	NR	745	0	NR	875	0	NR			

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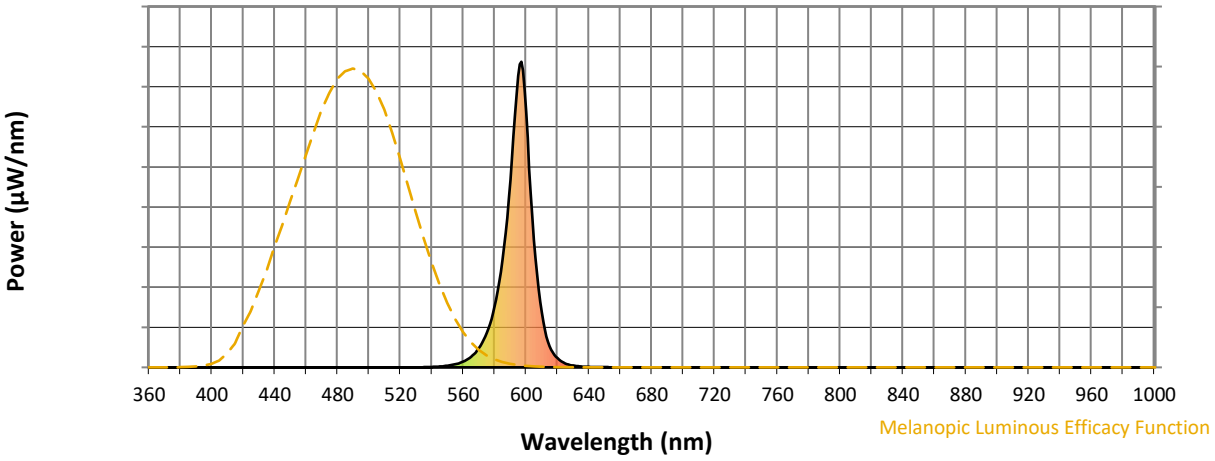
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.12**

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	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	3	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	2	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	1	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	1	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	0	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	0	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	0	NR	795	0	NR	925	0	NR
410	0	NR	540	1	NR	670	0	NR	800	0	NR	930	0	NR
415	0	NR	545	3	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	5	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	10	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	19	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	34	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	63	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	113	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	199	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	352	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	614	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	954	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	837	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	417	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	179	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	69	NR	745	0	NR	875	0	NR			

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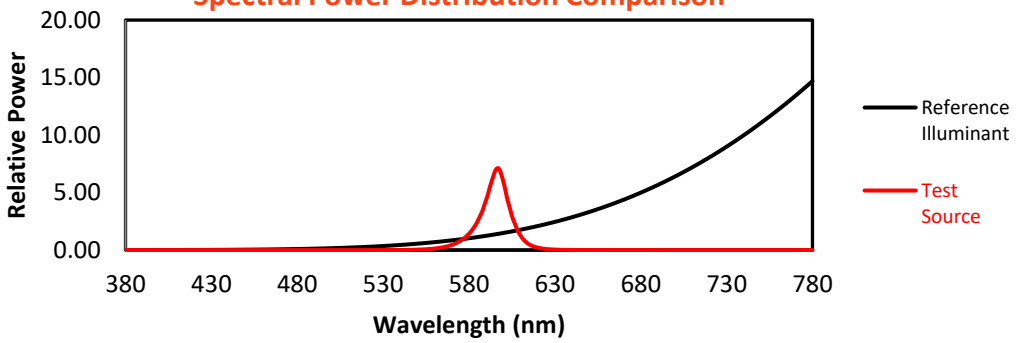
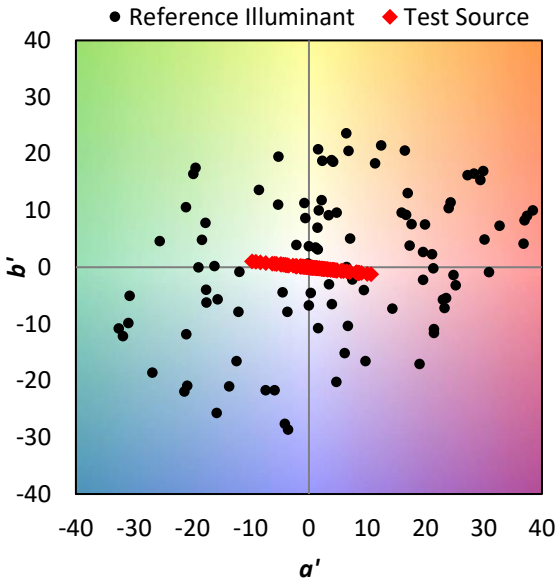
Summary

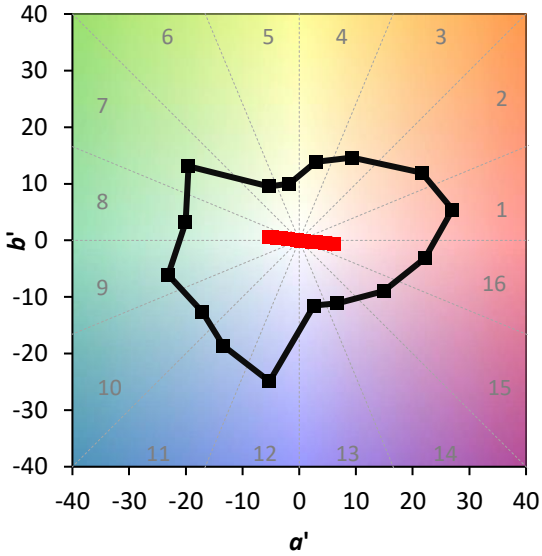
R_f = 1.1
R_g = 0
CIE R_a = -21.8
R_9 = -386.6

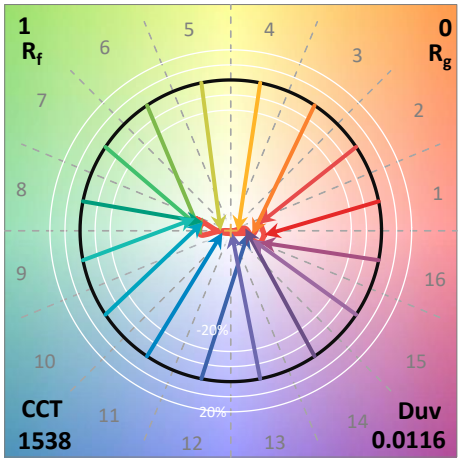
Spectral Power Distribution Comparison

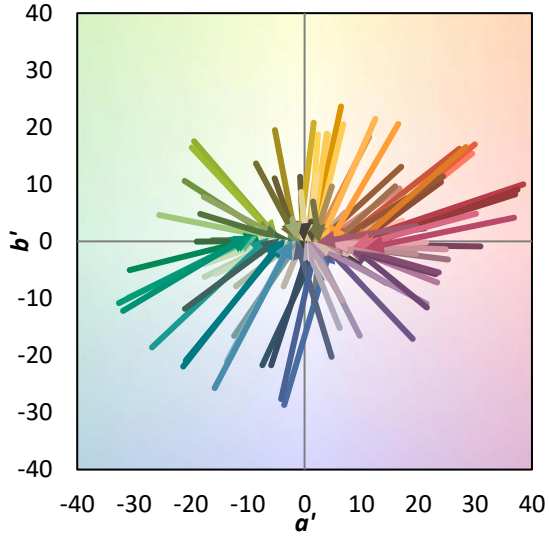


Color Vector Graphics









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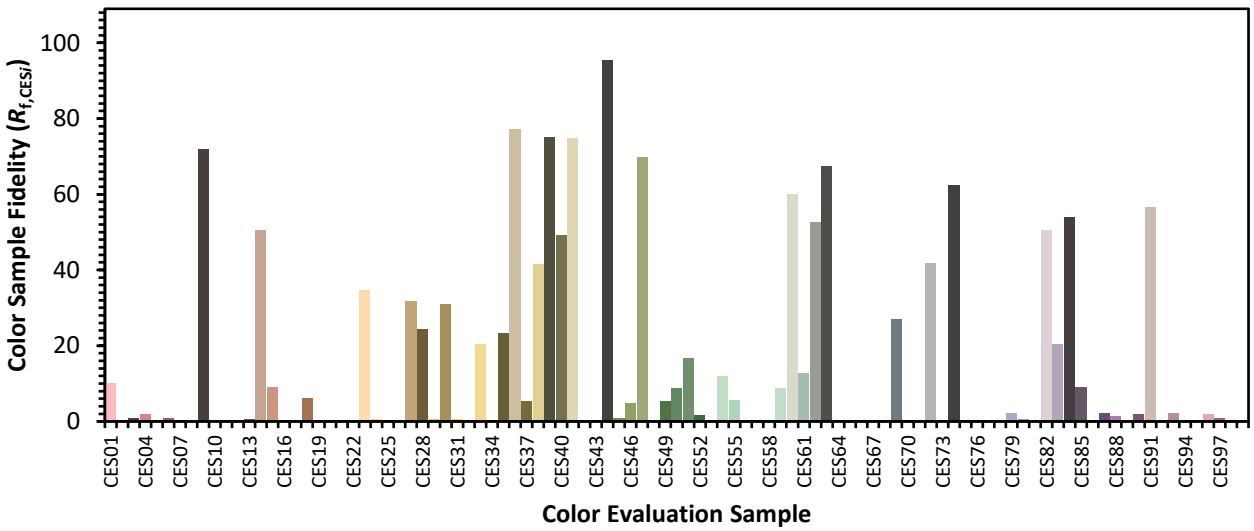
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 90	CES26 = 0	CES51 = 17	CES76 = 0
CES02 = 70	CES27 = 32	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 24	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 12	CES79 = 2
CES05 = 52	CES30 = 31	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 21	CES58 = 0	CES83 = 21
CES09 = 29	CES34 = 0	CES59 = 9	CES84 = 54
CES10 = 87	CES35 = 23	CES60 = 60	CES85 = 9
CES11 = 70	CES36 = 77	CES61 = 13	CES86 = 0
CES12 = 76	CES37 = 5	CES62 = 53	CES87 = 2
CES13 = 47	CES38 = 41	CES63 = 68	CES88 = 1
CES14 = 77	CES39 = 75	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 49	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 75	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 2
CES19 = 80	CES44 = 95	CES69 = 27	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 5	CES71 = 0	CES96 = 2
CES22 = 87	CES47 = 70	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 5	CES74 = 62	CES99 = 0
CES25 = 79	CES50 = 9	CES75 = 0	



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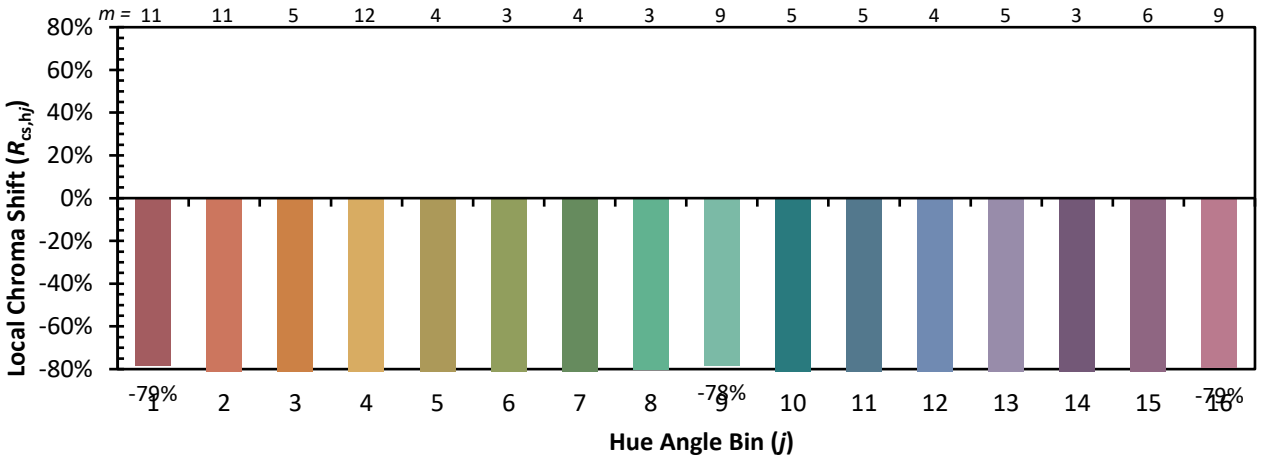
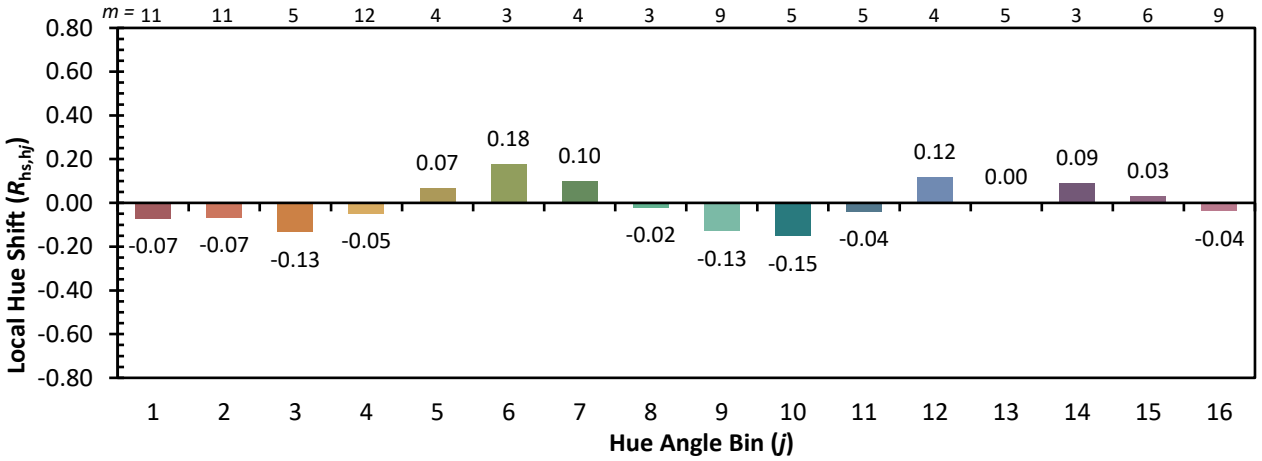
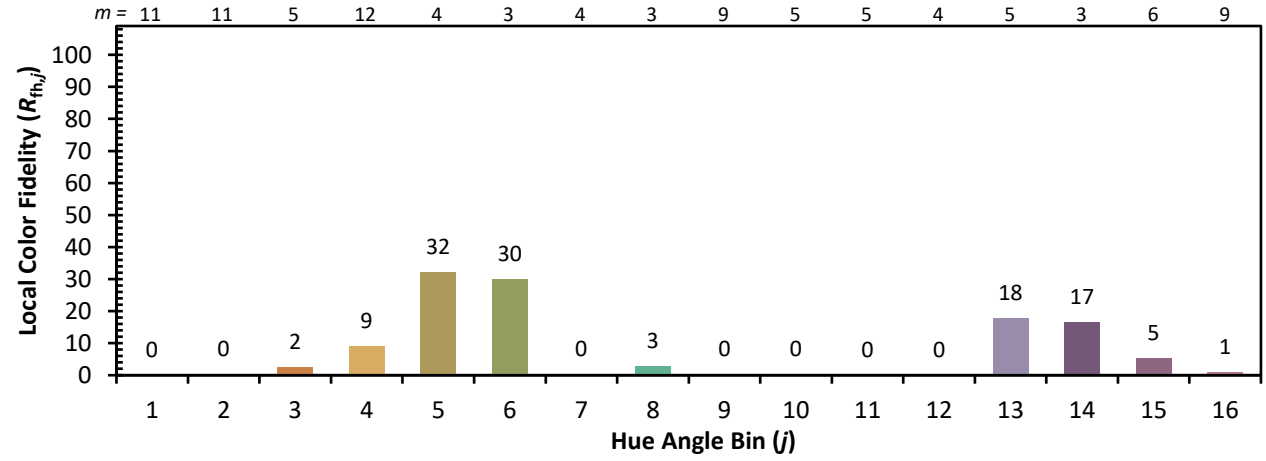
Color Rendition by Hue-Angle Bin







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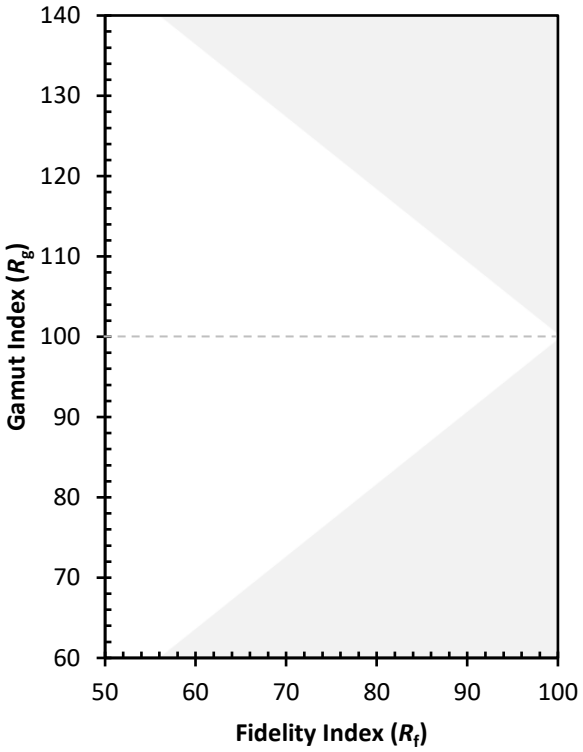
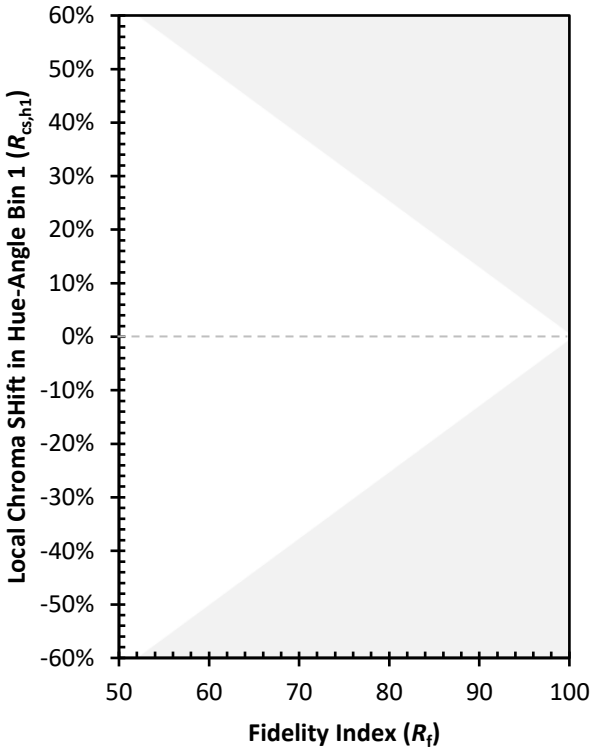
Measure Comparisons





(END OF REPORT)