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: P869192

Luminaire Tested: **EMM2-HTN-SA1A-AMB-U-T2R-HSS**

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:	P869192
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-SA1A-AMB-U-T2R-HSS
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 15W 0CRI 1540K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source:	(10) 1540K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	417.8 lumens
Efficiency:	N/A
Efficacy:	26.1 lumens/watt
Luminous Opening:	Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B0 - U0 - G0

Input Watts (W):	16
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.98%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P869192
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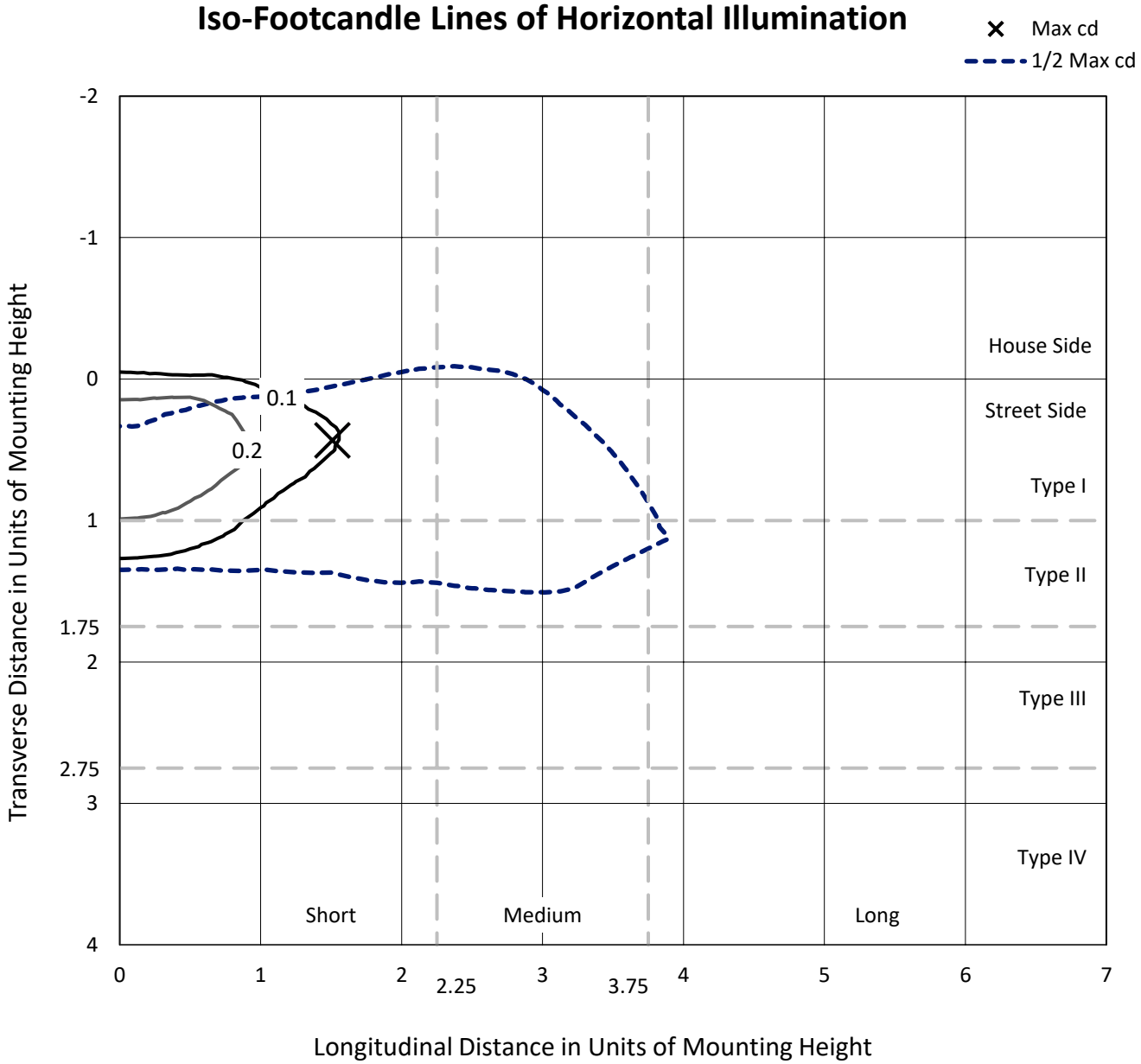
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 0.3 fc
Type II - Short - N/A

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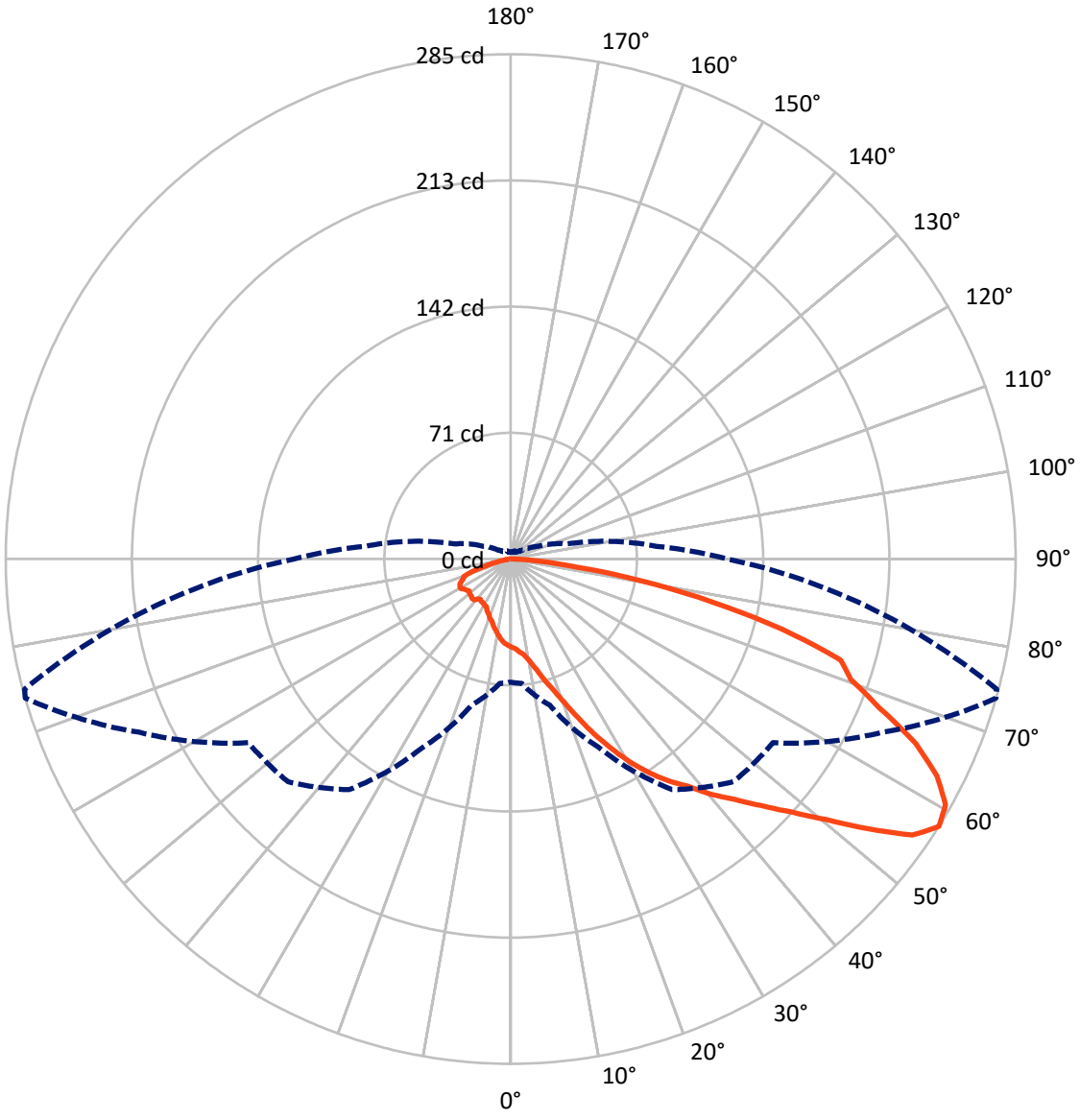
Luminous Intensity Polar Plot



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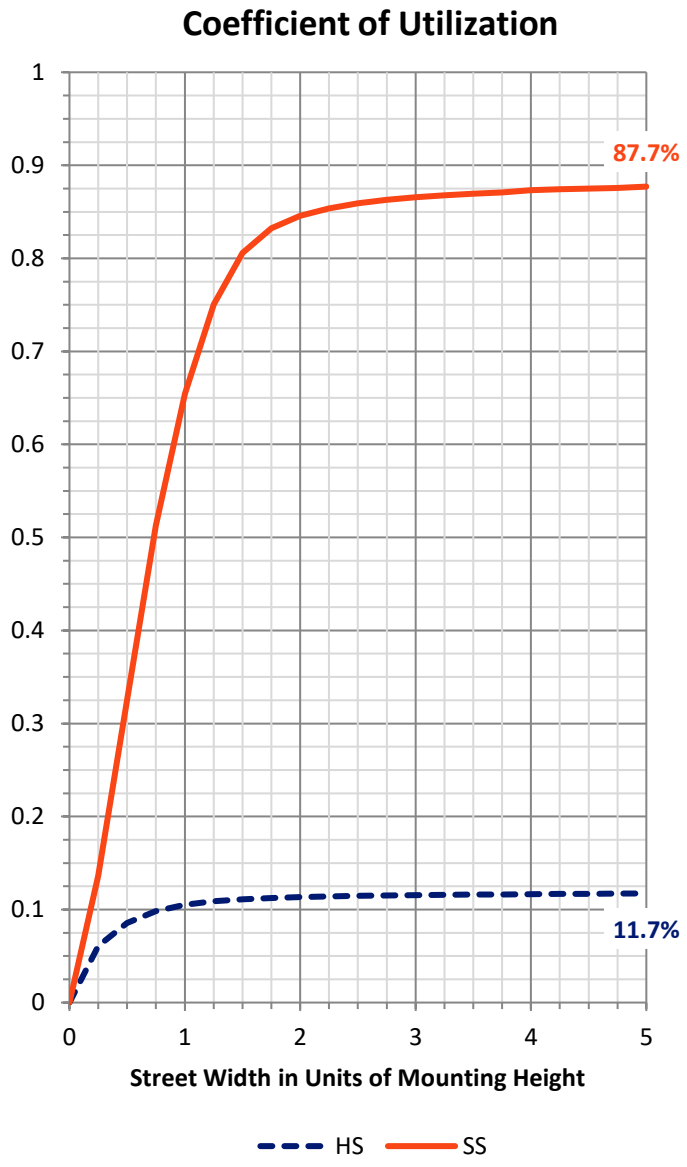
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49.6	0.0	49.6
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	368.3	0.0	368.3
	% Fixture	88.1	0.0	88.1
Total	Lumens	417.8	0.0	417.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	1.2
10°-20°	17.7	4.2
20°-30°	36.5	8.7
30°-40°	65.7	15.7
40°-50°	88.8	21.3
50°-60°	88.0	21.1
60°-70°	71.1	17.0
70°-80°	37.9	9.1
80°-90°	7.4	1.8
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°	417.8	100.0
0°-180°	417.8	100.0



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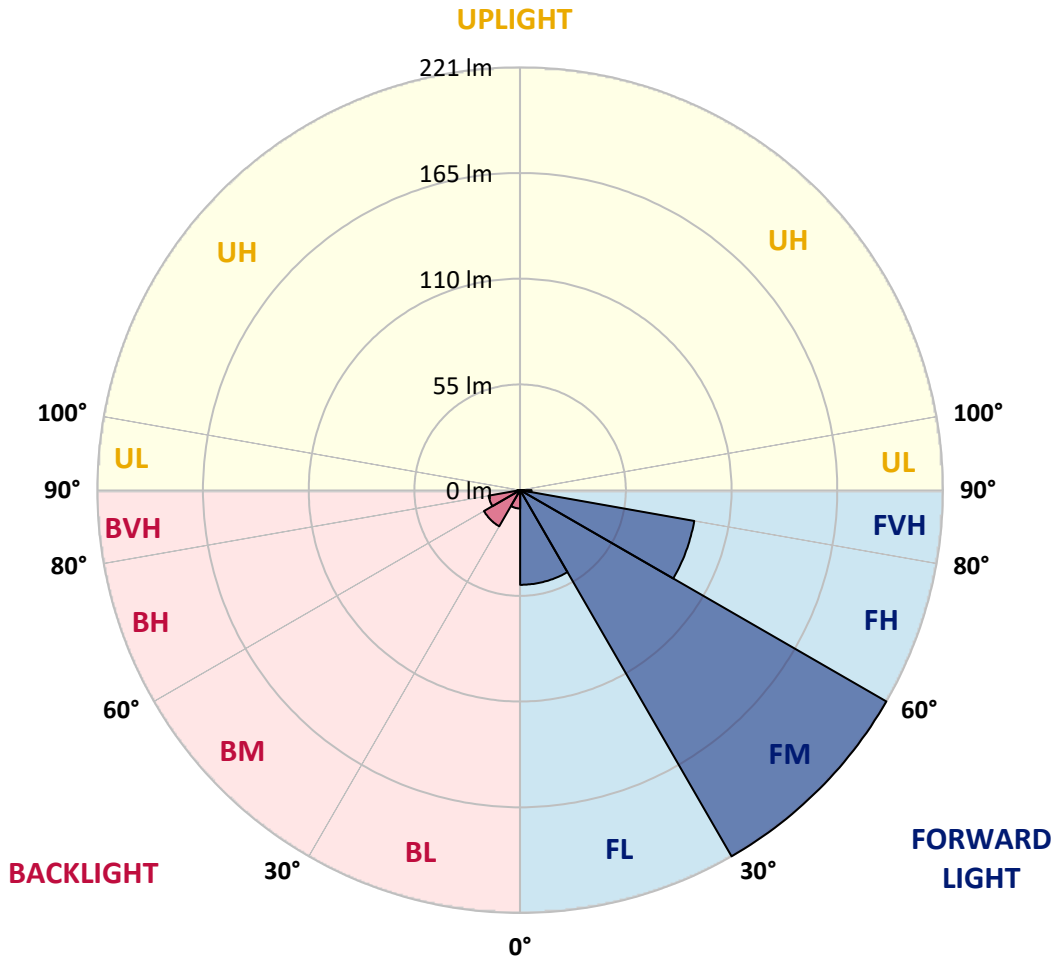
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	49.4	11.8			
FM	(30°-60°)	220.7	52.8			
FH	(60°-80°)	92.3	22.1			G0/660
FVH	(80°-90°)	6.0	1.4			G0/10
BL	(0°-30°)	9.6	2.3	B0/110		
BM	(30°-60°)	21.8	5.2	B0/220		
BH	(60°-80°)	16.7	4.0	B0/110		G0/110
BVH	(80°-90°)	1.5	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
Type II Short



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REPORT NUMBER: P869192
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	*49.6*	49.6	49.6
2.5°	54.5	54.5	53.5	53.5	53.5	52.6	52.6	51.6	*50.6*	50.6	50.6
5°	64.5	65.4	64.5	63.5	61.5	59.5	56.5	53.5	*52.6*	51.6	50.6
7.5°	77.3	76.4	75.4	73.4	71.4	68.4	63.5	58.5	*54.5*	53.5	51.6
10°	92.2	93.2	90.2	87.3	82.3	77.3	72.4	64.5	*58.5*	57.5	52.6
12.5°	112.1	112.1	107.1	102.1	98.2	89.2	81.3	73.4	*63.5*	62.5	53.5
15°	129.9	128.9	127.9	123.0	115.0	104.1	92.2	82.3	*70.4*	68.4	55.5
17.5°	139.8	139.8	138.8	136.8	130.9	121.0	106.1	92.2	*77.3*	75.4	58.5
20°	143.8	143.8	142.8	141.8	140.8	135.9	122.0	104.1	*86.3*	84.3	61.5
22.5°	150.7	149.7	146.8	144.8	146.8	145.8	135.9	118.0	*97.2*	94.2	65.4
25°	162.6	160.6	155.7	151.7	151.7	152.7	147.8	130.9	*109.1*	106.1	71.4
27.5°	180.5	178.5	170.6	163.6	158.7	155.7	154.7	143.8	*121.0*	118.0	78.3
30°	201.3	199.3	193.4	181.5	170.6	161.6	158.7	153.7	*132.9*	129.9	86.3
32.5°	229.1	228.1	218.2	200.3	187.4	173.5	167.6	161.6	*143.8*	140.8	94.2
35°	260.8	256.8	248.9	225.1	206.3	190.4	179.5	171.6	*153.7*	149.7	101.1
37.5°	264.8	264.8	263.8	250.9	231.1	206.3	191.4	182.5	*162.6*	160.6	109.1
40°	251.9	250.9	254.9	253.9	245.9	227.1	209.2	197.3	*174.5*	170.6	116.0
42.5°	233.0	234.0	238.0	241.0	240.0	242.0	228.1	211.2	*185.4*	180.5	118.0
45°	220.1	219.2	222.1	224.1	225.1	239.0	244.9	224.1	*198.3*	193.4	122.0
47.5°	208.2	207.3	207.3	207.3	209.2	221.1	246.9	245.9	*213.2*	207.3	127.9
50°	194.4	192.4	191.4	193.4	196.3	199.3	235.0	259.8	*231.1*	225.1	134.9
52.5°	156.7	158.7	169.6	180.5	186.4	185.4	213.2	258.8	*252.9*	246.9	143.8
55°	109.1	109.1	125.9	154.7	177.5	178.5	189.4	248.9	*274.7*	268.7	157.7
57.5°	*69.4*	*70.4*	*85.3*	*117.0*	*158.7*	*177.5*	*180.5*	*231.1*	*284.6*	*283.6*	*174.5*
60°	44.6	46.6	54.5	82.3	120.0	170.6	182.5	215.2	*281.6*	283.6	196.3
62.5°	32.7	33.7	37.7	56.5	87.3	141.8	192.4	209.2	*269.7*	272.7	212.2
65°	26.8	26.8	28.8	40.7	60.5	97.2	192.4	217.2	*250.9*	254.9	215.2
67.5°	21.8	22.8	23.8	31.7	44.6	64.5	152.7	242.0	*224.1*	224.1	203.3
70°	18.8	18.8	20.8	25.8	33.7	44.6	97.2	230.1	*203.3*	200.3	177.5
72.5°	16.9	16.9	17.8	21.8	26.8	33.7	62.5	174.5	*194.4*	189.4	142.8
75°	13.9	14.9	15.9	17.8	21.8	25.8	39.7	121.0	*157.7*	150.7	116.0
77.5°	12.9	12.9	13.9	15.9	17.8	19.8	26.8	74.4	*116.0*	114.0	86.3
80°	9.9	9.9	10.9	12.9	13.9	14.9	17.8	37.7	*74.4*	74.4	51.6
82.5°	8.9	8.9	9.9	10.9	10.9	11.9	11.9	17.8	*37.7*	39.7	23.8
85°	7.9	6.9	6.9	7.9	8.9	7.9	7.9	8.9	*15.9*	15.9	10.9
87.5°	4.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	*5.0*	5.9	5.0
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	49.6	49.6	48.6	47.6	47.6	46.6	46.6	45.6	44.6	44.6	45.6
5°	49.6	49.6	47.6	45.6	43.6	41.6	39.7	37.7	36.7	36.7	35.7
7.5°	49.6	48.6	45.6	42.6	38.7	34.7	30.7	27.8	25.8	24.8	24.8
10°	50.6	47.6	43.6	38.7	32.7	25.8	21.8	18.8	17.8	17.8	16.9
12.5°	50.6	47.6	41.6	34.7	25.8	19.8	16.9	15.9	14.9	14.9	14.9
15°	51.6	47.6	39.7	30.7	20.8	15.9	14.9	13.9	13.9	13.9	13.9
17.5°	53.5	48.6	37.7	25.8	16.9	14.9	13.9	12.9	12.9	12.9	12.9
20°	54.5	48.6	36.7	21.8	14.9	13.9	12.9	11.9	11.9	11.9	11.9
22.5°	56.5	49.6	34.7	18.8	13.9	12.9	11.9	11.9	10.9	10.9	10.9
25°	59.5	50.6	33.7	16.9	12.9	11.9	10.9	10.9	9.9	9.9	9.9
27.5°	63.5	53.5	31.7	14.9	11.9	10.9	10.9	9.9	9.9	9.9	9.9
30°	69.4	56.5	31.7	14.9	11.9	10.9	9.9	8.9	8.9	8.9	8.9
32.5°	74.4	59.5	30.7	14.9	11.9	9.9	8.9	8.9	7.9	7.9	7.9
35°	78.3	61.5	30.7	15.9	11.9	9.9	8.9	7.9	7.9	7.9	7.9
37.5°	82.3	64.5	29.7	15.9	12.9	8.9	7.9	7.9	6.9	6.9	6.9
40°	89.2	68.4	30.7	15.9	12.9	8.9	7.9	6.9	6.9	6.9	6.9
42.5°	92.2	70.4	32.7	15.9	12.9	8.9	6.9	6.9	6.9	5.9	5.9
45°	92.2	70.4	32.7	16.9	11.9	8.9	6.9	5.9	5.9	5.9	5.9
47.5°	94.2	69.4	31.7	17.8	11.9	8.9	6.9	5.9	5.9	5.9	5.9
50°	98.2	70.4	31.7	18.8	10.9	7.9	5.9	5.9	5.9	5.0	5.0
52.5°	104.1	73.4	30.7	18.8	9.9	6.9	5.9	5.9	5.0	5.0	5.0
55°	112.1	77.3	31.7	17.8	9.9	6.9	5.9	5.0	5.0	5.0	5.0
57.5°	*122.0*	*82.3*	*32.7*	*16.9*	*8.9*	*5.9*	*5.0*	*5.0*	*4.0*	*4.0*	*4.0*
60°	135.9	90.2	34.7	14.9	7.9	5.0	5.0	4.0	4.0	4.0	4.0
62.5°	148.7	98.2	34.7	12.9	6.9	5.0	5.0	4.0	4.0	3.0	3.0
65°	158.7	108.1	33.7	10.9	5.9	5.0	4.0	4.0	3.0	3.0	3.0
67.5°	160.6	109.1	31.7	6.9	5.0	4.0	4.0	4.0	3.0	3.0	3.0
70°	146.8	101.1	30.7	5.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0
72.5°	121.0	82.3	24.8	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	103.1	61.5	15.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0
77.5°	83.3	50.6	9.9	3.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0
80°	52.6	40.7	5.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	24.8	20.8	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	9.9	8.9	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
87.5°	4.0	3.0	1.0	1.0	1.0	0.0	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

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

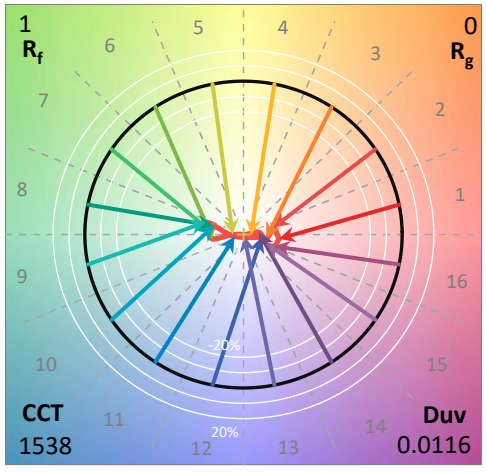
Test Information

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

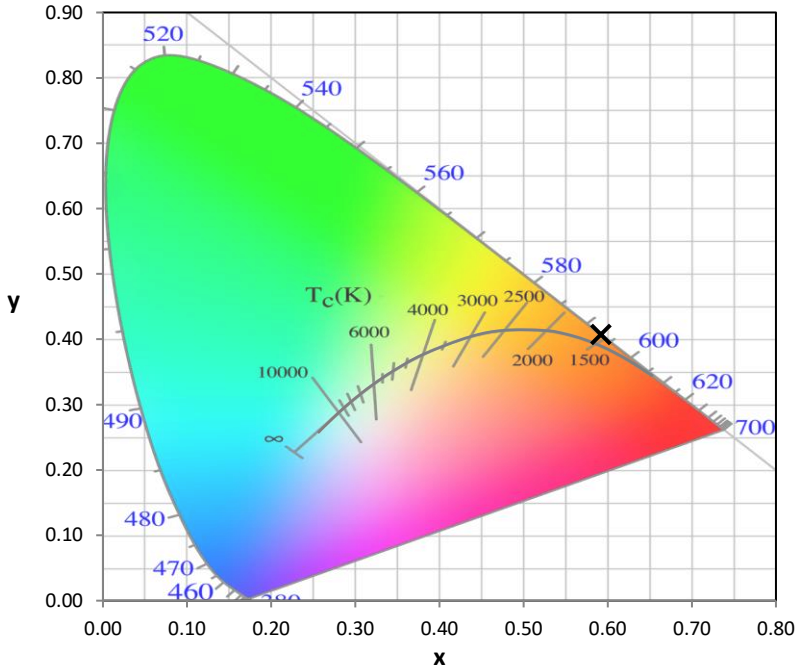
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-1

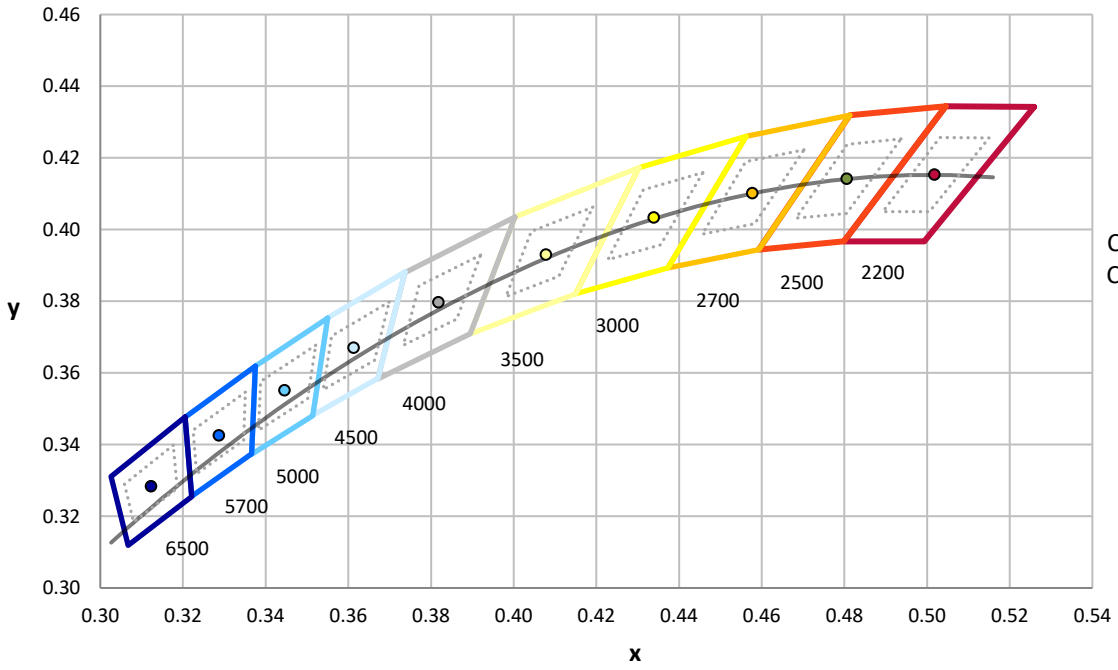
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

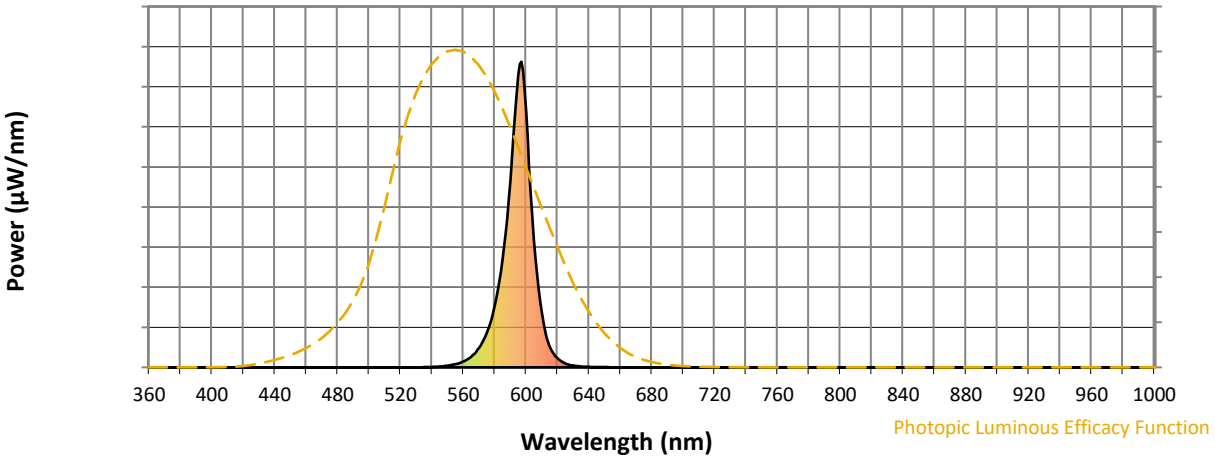


CCT = 1538K
CIE x = 0.5918
CIE y = 0.4076
Duv = 0.0116

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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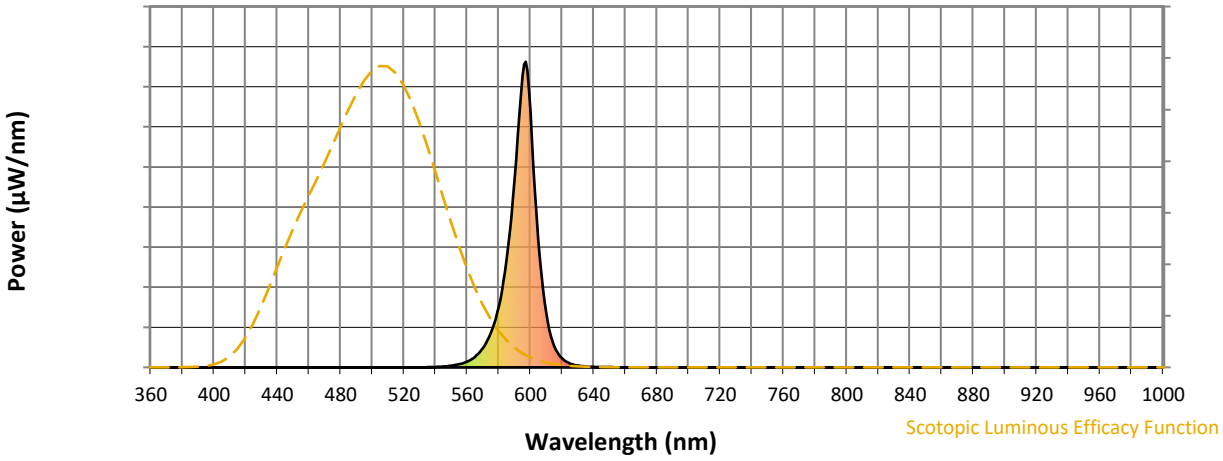
Scotopic Flux vs. Wavelength



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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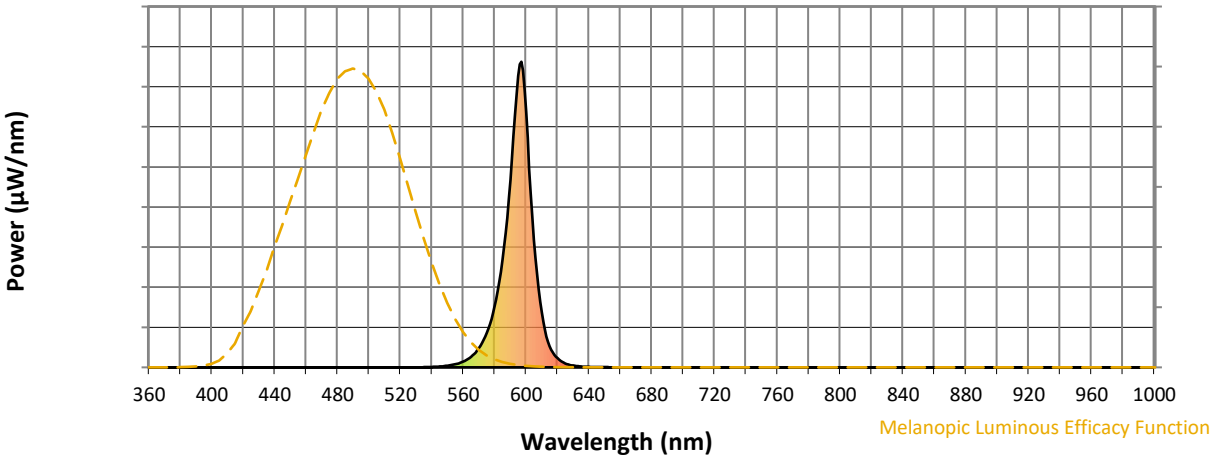
Melanopic Flux vs. Wavelength



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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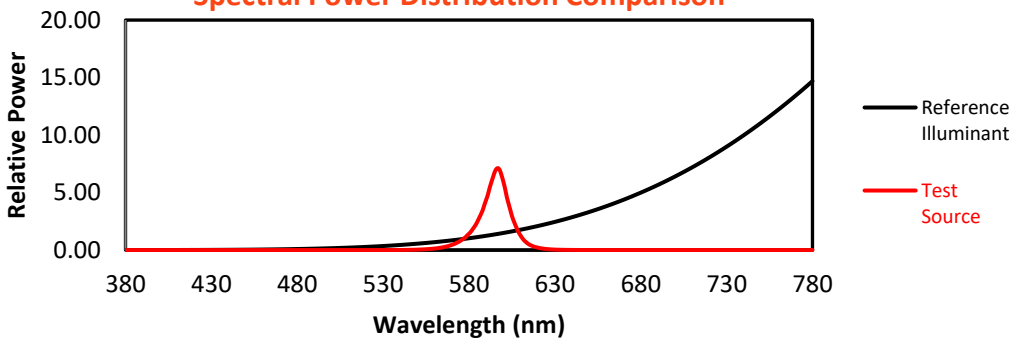
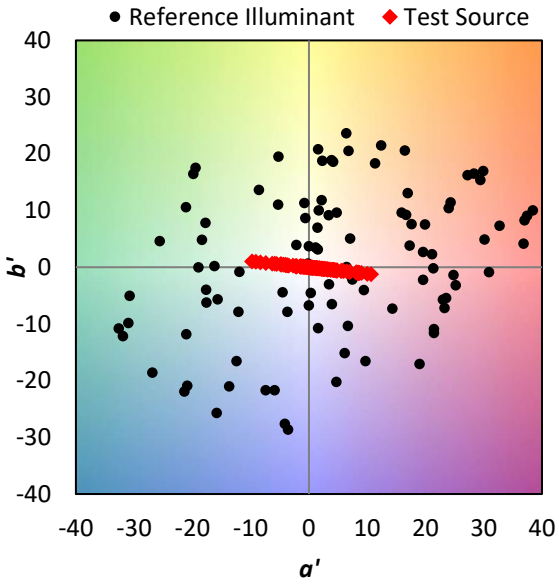
Summary

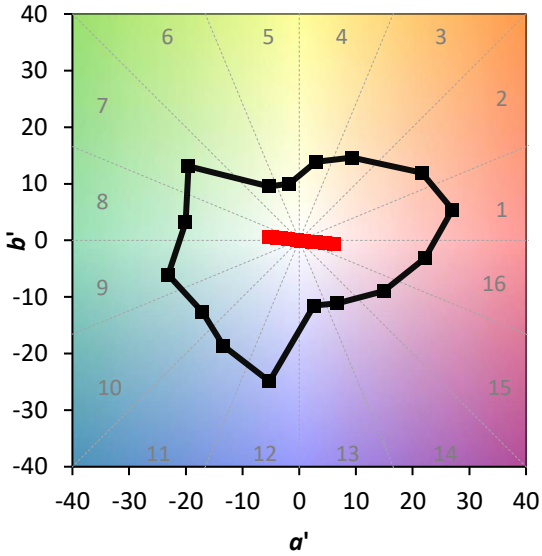
R_f = 1.1
R_g = 0
CIE R_a = -21.8
R_9 = -386.6

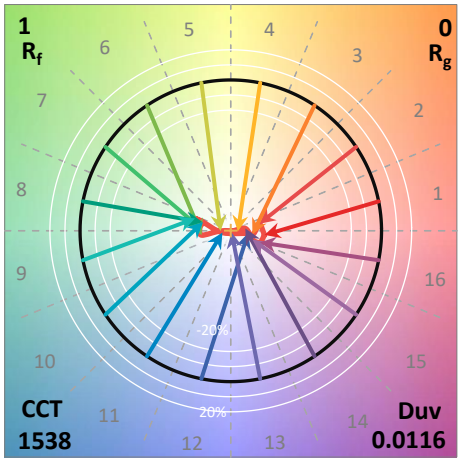
Spectral Power Distribution Comparison

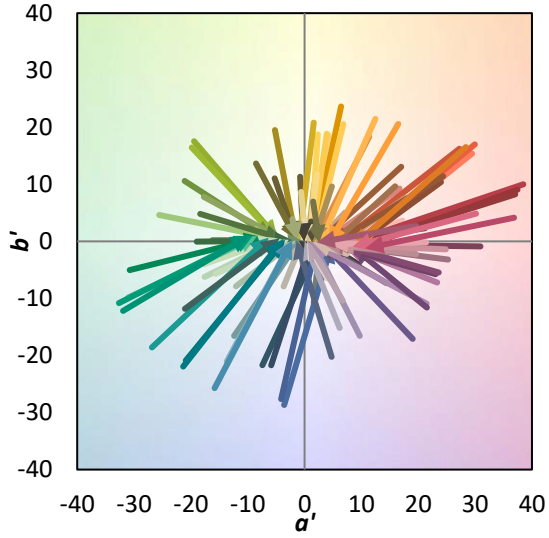


Color Vector Graphics









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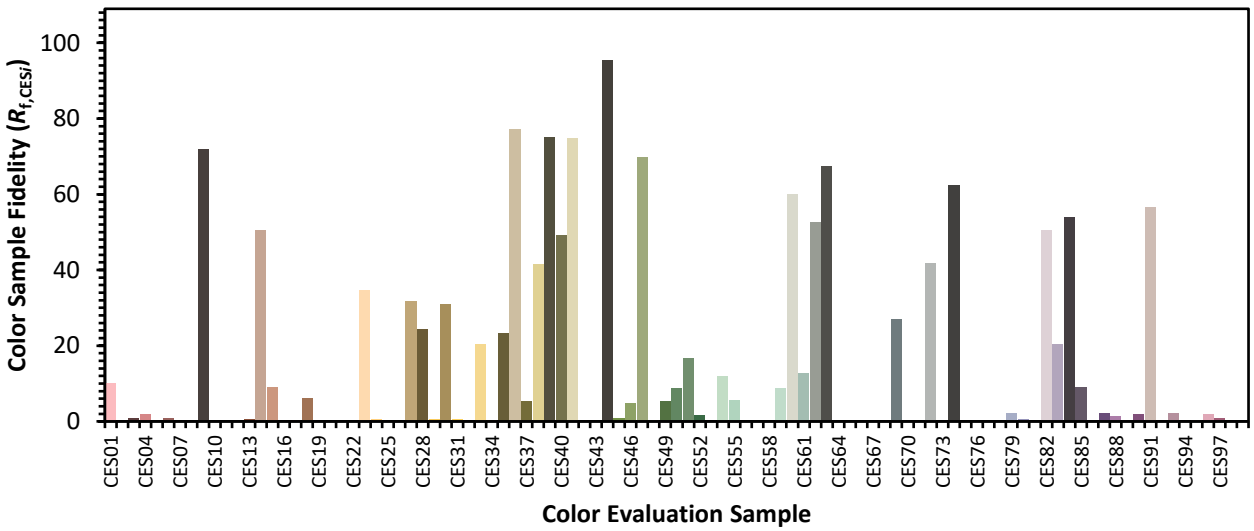
Individual Sample Fidelity Index ($R_{f,i}$)

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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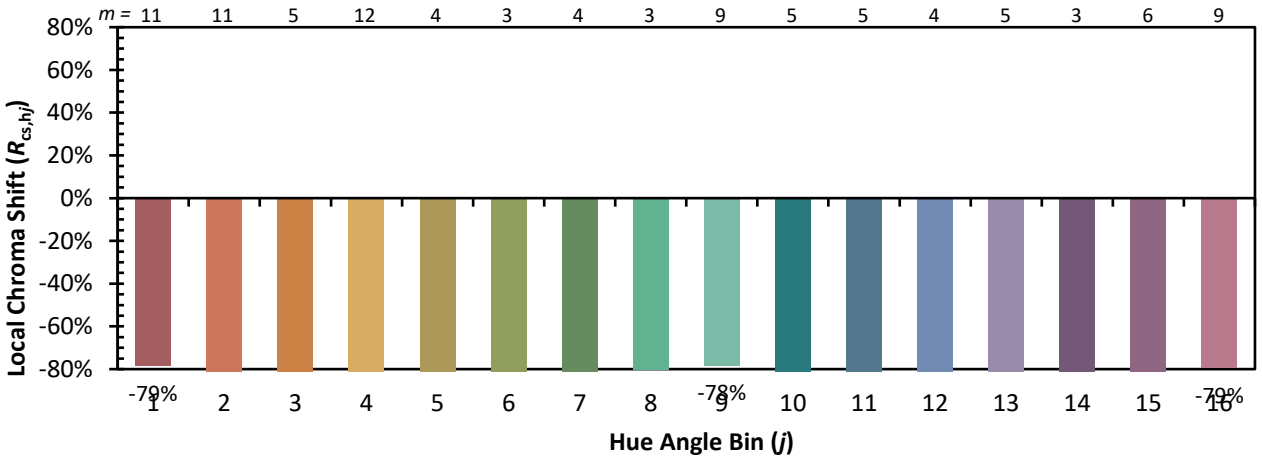
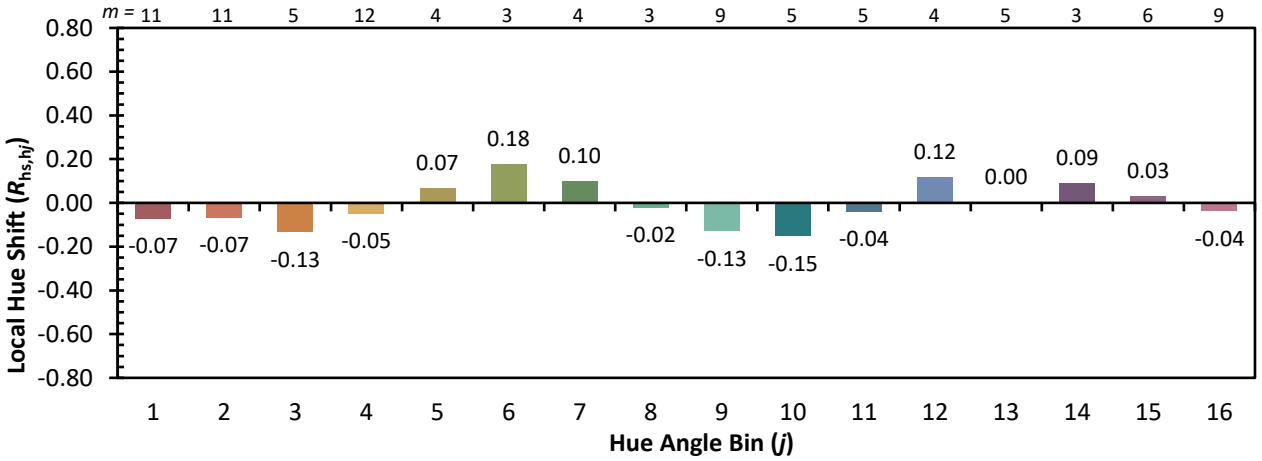
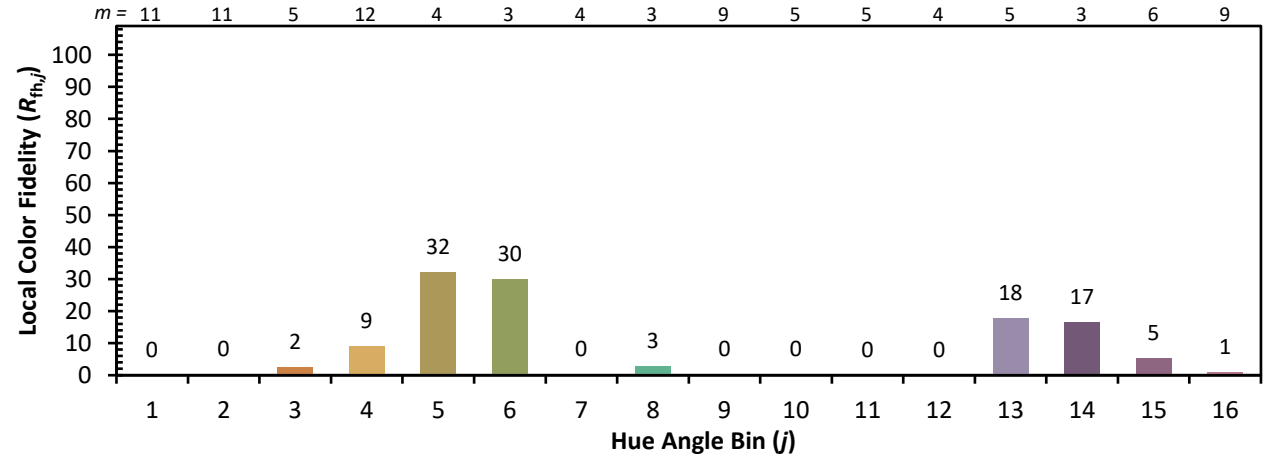
Color Rendition by Hue-Angle Bin







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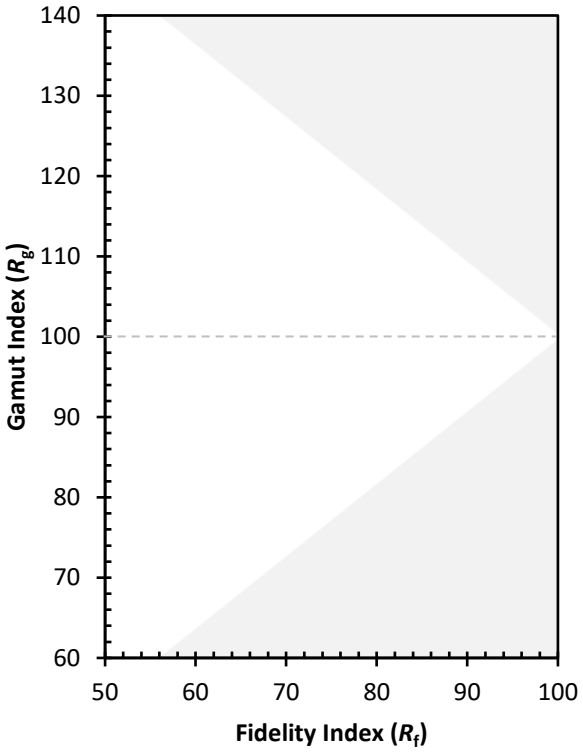
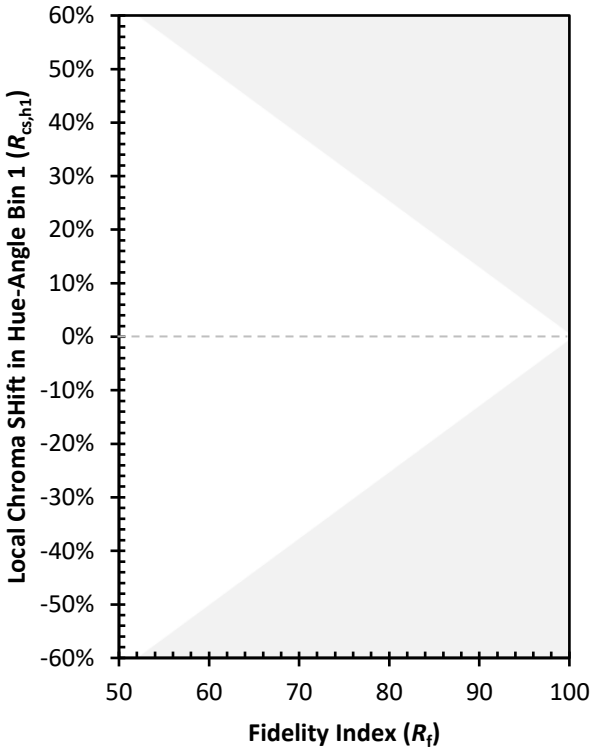
Measure Comparisons





(END OF REPORT)