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: P869189

Luminaire Tested: **EMM2-HTN-SA1A-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:	P869189
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
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 15W 0CRI 1540K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source:	(10) 1540K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	602.6 lumens
Efficiency:	N/A
Efficacy:	37.7 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: P869189
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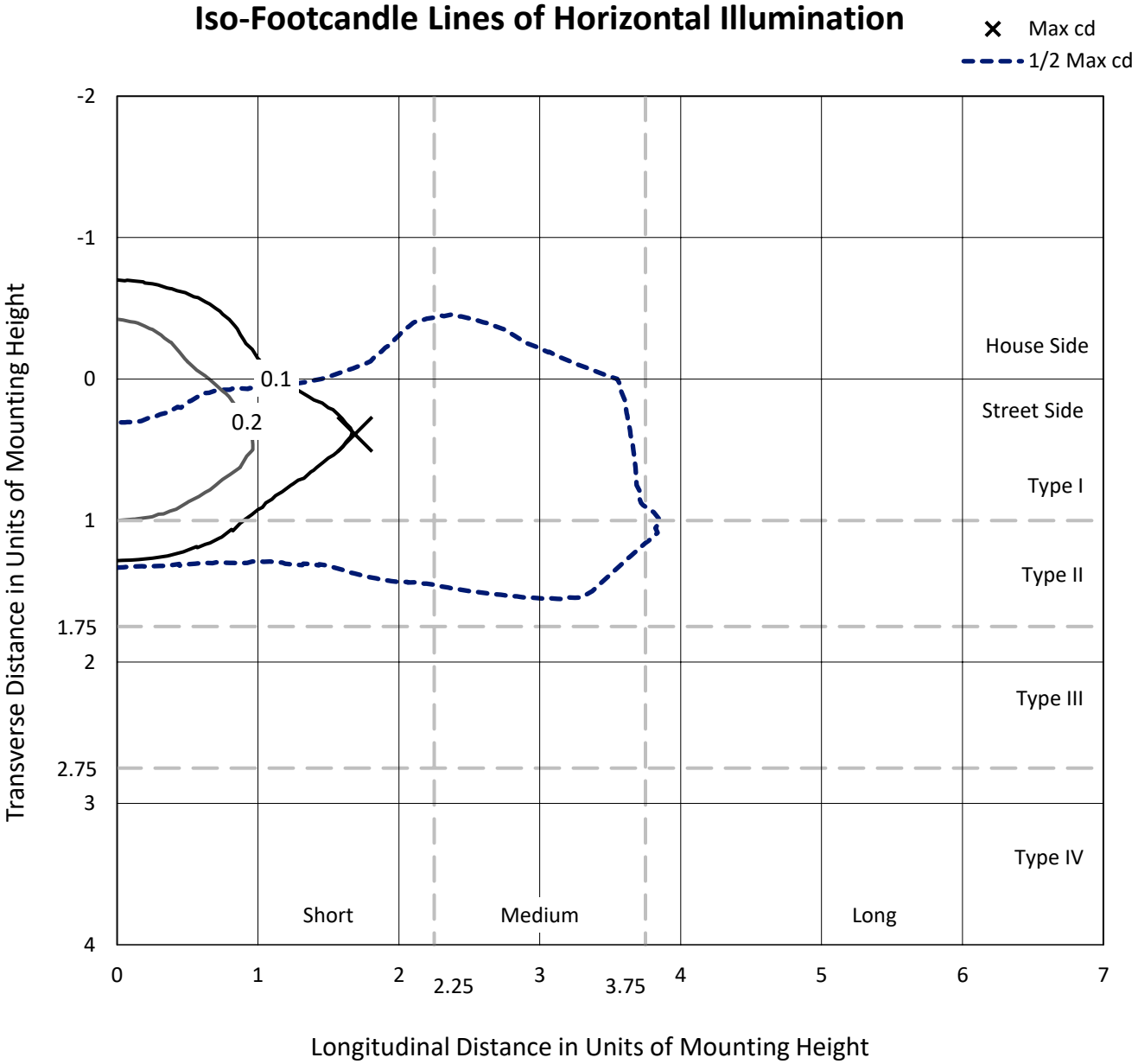
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 0.4 fc
Type II - Short - N/A

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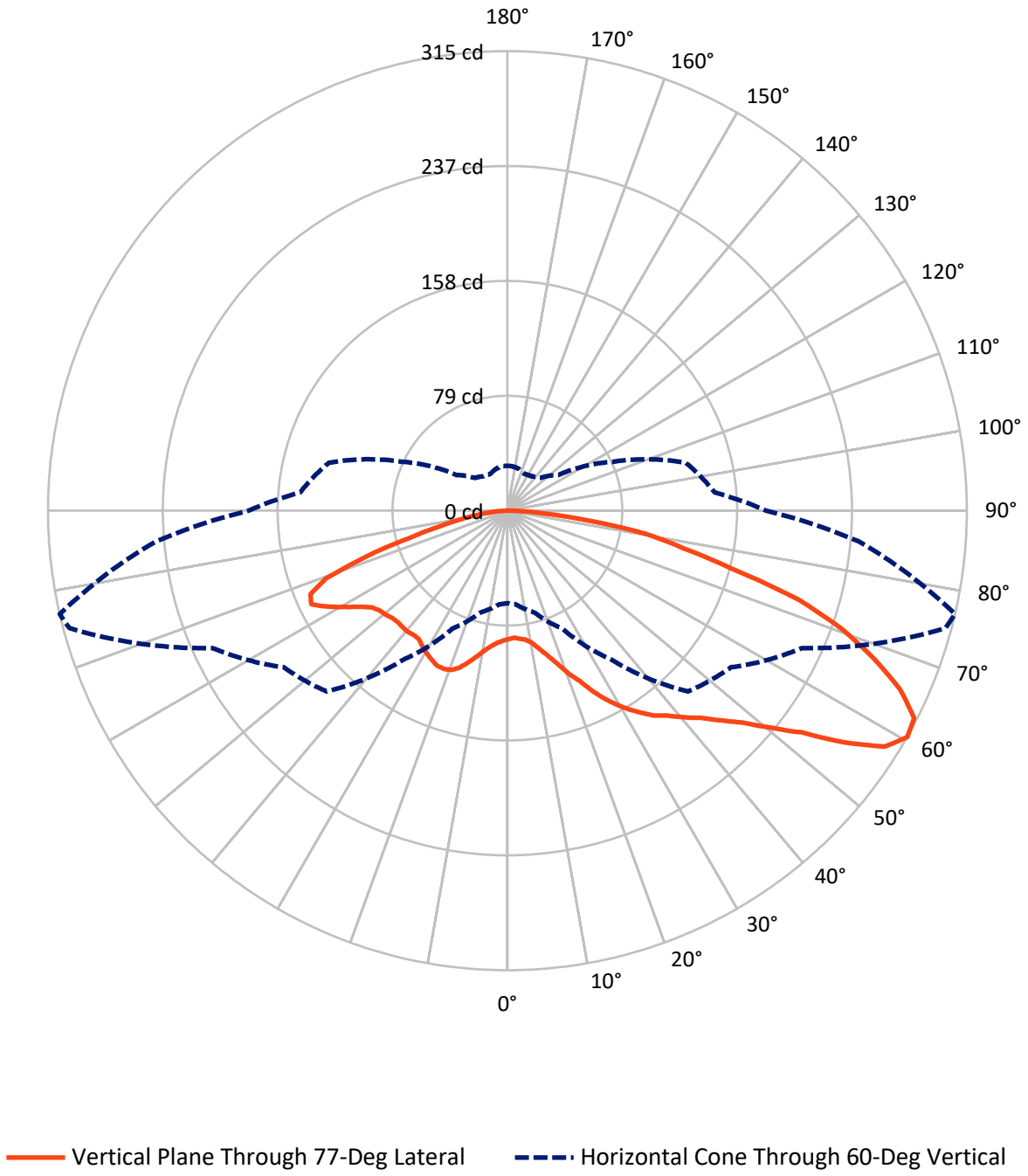
Luminous Intensity Polar Plot



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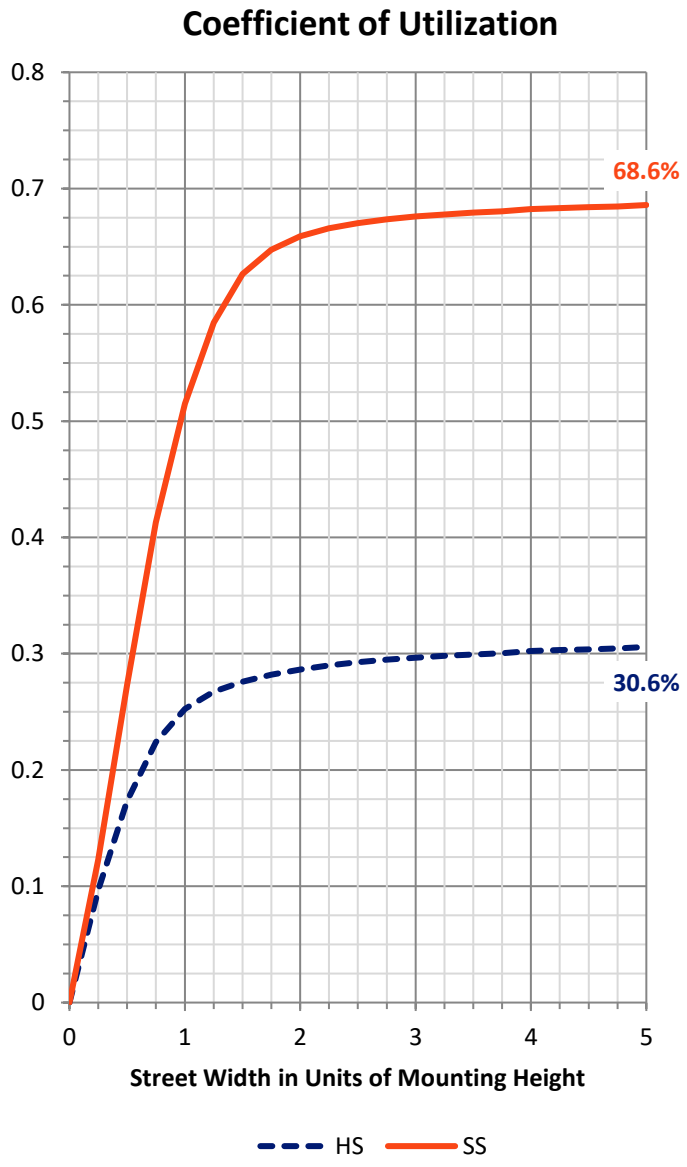
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	187.4	0.0	187.4
	% Fixture	31.1	0.0	31.1
Street Side	Lumens	415.2	0.0	415.2
	% Fixture	68.9	0.0	68.9
Total	Lumens	602.6	0.0	602.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	1.5
10°-20°	33.4	5.5
20°-30°	63.5	10.5
30°-40°	95.5	15.9
40°-50°	116.5	19.3
50°-60°	113.6	18.8
60°-70°	99.9	16.6
70°-80°	57.3	9.5
80°-90°	13.9	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°	602.6	100.0
0°-180°	602.6	100.0



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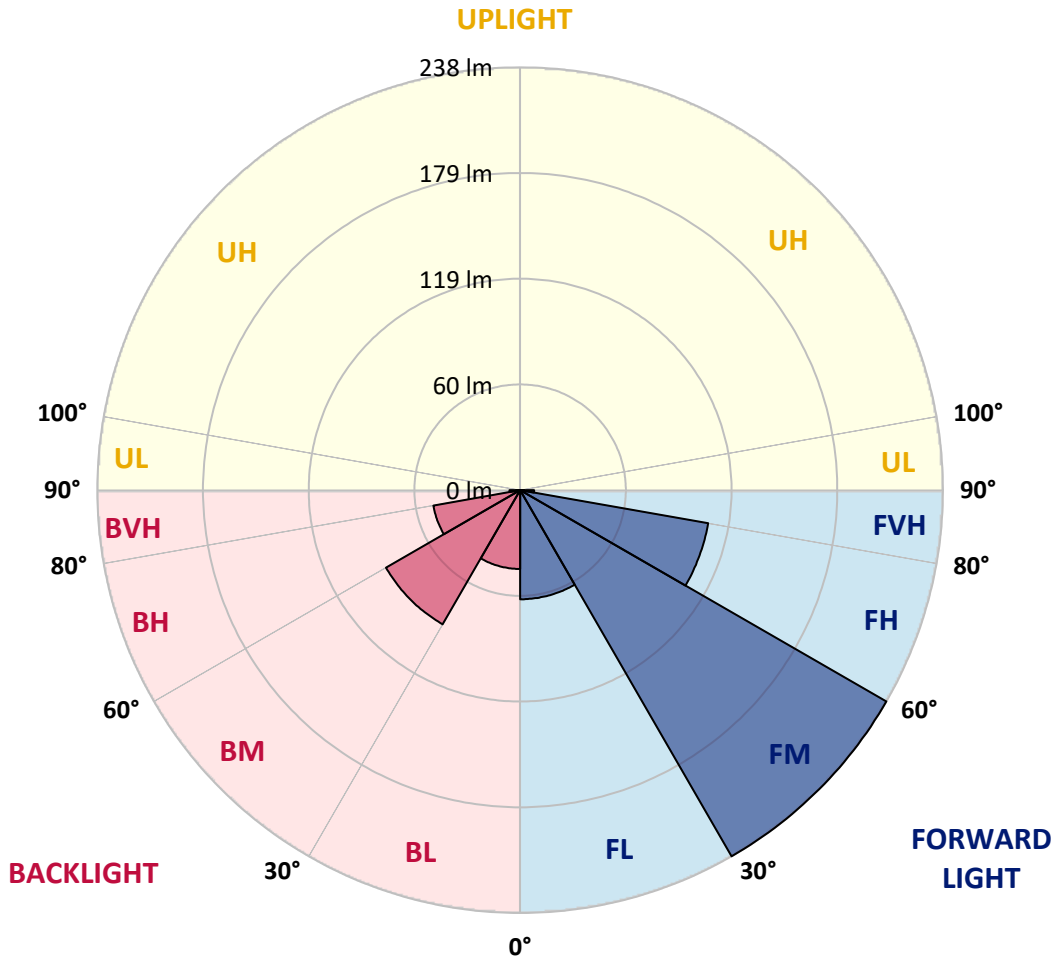
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	61.5	10.2			
FM	(30°-60°)	238.3	39.5			
FH	(60°-80°)	107.6	17.9			G0/660
FVH	(80°-90°)	7.8	1.3			G0/10
BL	(0°-30°)	44.4	7.4	B0/110		
BM	(30°-60°)	87.3	14.5	B0/220		
BH	(60°-80°)	49.7	8.2	B0/110		G0/110
BVH	(80°-90°)	6.0	1.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
Type II Short



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REPORT NUMBER: P869189
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	*88.3*	88.3
2.5°	86.3	86.3	86.3	86.3	86.3	87.3	87.3	87.3	87.3	*87.3*	88.3
5°	89.3	89.3	88.3	88.3	88.3	88.3	87.3	87.3	88.3	*88.3*	89.3
7.5°	96.2	96.2	96.2	94.2	93.2	91.2	90.2	89.3	89.3	*89.3*	90.2
10°	110.1	110.1	109.1	105.1	102.2	98.2	95.2	93.2	92.2	*92.2*	93.2
12.5°	129.9	128.9	126.9	122.0	115.0	110.1	103.1	99.2	97.2	*97.2*	97.2
15°	148.8	147.8	145.8	139.8	132.9	123.0	114.1	107.1	104.1	*103.1*	103.1
17.5°	160.7	160.7	159.7	155.7	149.8	138.8	126.9	116.0	110.1	*110.1*	110.1
20°	170.6	169.6	168.6	165.6	161.7	154.7	141.8	127.9	119.0	*119.0*	117.0
22.5°	182.5	181.5	177.5	173.6	170.6	166.6	155.7	139.8	128.9	*126.9*	124.0
25°	197.4	195.4	190.4	184.5	179.5	176.5	166.6	151.7	139.8	*137.9*	130.9
27.5°	212.2	210.3	204.3	197.4	189.4	181.5	174.5	163.6	150.7	*147.8*	136.9
30°	224.1	222.2	218.2	210.3	200.3	191.4	182.5	173.6	159.7	*156.7*	142.8
32.5°	243.0	242.0	234.1	222.2	214.2	203.3	192.4	183.5	167.6	*164.6*	147.8
35°	266.8	263.8	257.9	239.0	225.1	215.2	205.3	192.4	175.5	*172.6*	151.7
37.5°	269.8	268.8	268.8	257.9	241.0	227.1	217.2	204.3	183.5	*178.5*	154.7
40°	257.9	256.9	259.8	258.8	250.9	240.0	229.1	217.2	191.4	*186.5*	158.7
42.5°	239.0	239.0	244.0	245.0	245.0	249.9	244.0	229.1	201.3	*194.4*	157.7
45°	226.1	224.1	226.1	228.1	230.1	243.0	254.9	241.0	212.2	*205.3*	159.7
47.5°	212.2	211.2	211.2	212.2	214.2	226.1	253.9	258.8	226.1	*217.2*	164.6
50°	198.4	195.4	195.4	197.4	200.3	204.3	241.0	270.7	244.0	*234.1*	172.6
52.5°	166.6	168.6	175.5	183.5	191.4	189.4	218.2	268.8	265.8	*252.9*	183.5
55°	126.0	123.0	136.9	160.7	181.5	182.5	194.4	256.9	290.6	*280.7*	198.4
57.5°	89.3	90.2	99.2	122.0	162.6	181.5	184.5	239.0	307.4	*305.5*	218.2
60°	*63.5*	*64.5*	*72.4*	*89.3*	*125.0*	*175.5*	*187.4*	*223.1*	*311.4*	*315.4*	*242.0*
62.5°	47.6	47.6	51.6	63.5	89.3	147.8	199.3	221.2	305.5	*313.4*	262.8
65°	36.7	37.7	39.7	48.6	64.5	103.1	202.3	238.0	290.6	*296.5*	270.7
67.5°	29.8	30.7	32.7	36.7	46.6	69.4	169.6	261.8	261.8	*271.7*	258.8
70°	25.8	25.8	26.8	30.7	36.7	49.6	119.0	258.8	237.0	*244.0*	228.1
72.5°	21.8	22.8	23.8	25.8	29.8	37.7	77.4	205.3	218.2	*209.3*	186.5
75°	17.9	17.9	19.8	21.8	23.8	29.8	48.6	149.8	174.5	*158.7*	150.7
77.5°	15.9	15.9	16.9	18.8	20.8	22.8	33.7	91.2	130.9	*123.0*	112.1
80°	12.9	13.9	13.9	15.9	16.9	17.9	21.8	49.6	92.2	*96.2*	69.4
82.5°	11.9	11.9	11.9	12.9	13.9	13.9	15.9	25.8	50.6	*56.5*	35.7
85°	8.9	8.9	8.9	9.9	9.9	9.9	10.9	12.9	22.8	*24.8*	17.9
87.5°	4.0	4.0	4.0	5.0	5.0	5.0	6.0	5.0	7.9	*8.9*	6.9
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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REPORT NUMBER: P869189
CATALOG NUMBER: EMM2-HTN-SA1A-AMB-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	88.3	89.3	89.3	90.2	91.2	91.2	91.2	91.2	92.2	92.2	92.2
5°	89.3	90.2	91.2	93.2	94.2	95.2	96.2	96.2	97.2	97.2	96.2
7.5°	91.2	92.2	94.2	96.2	99.2	100.2	101.2	101.2	101.2	101.2	101.2
10°	94.2	95.2	98.2	101.2	103.1	105.1	106.1	105.1	105.1	105.1	105.1
12.5°	99.2	100.2	103.1	106.1	108.1	110.1	109.1	109.1	108.1	108.1	108.1
15°	105.1	105.1	108.1	111.1	112.1	113.1	111.1	110.1	110.1	109.1	110.1
17.5°	111.1	111.1	113.1	114.1	114.1	112.1	111.1	109.1	109.1	109.1	109.1
20°	116.0	116.0	116.0	114.1	112.1	110.1	109.1	107.1	107.1	108.1	108.1
22.5°	123.0	121.0	116.0	113.1	109.1	107.1	105.1	103.1	103.1	104.1	104.1
25°	127.9	124.0	115.0	110.1	106.1	102.2	100.2	98.2	98.2	98.2	99.2
27.5°	130.9	125.0	112.1	106.1	102.2	98.2	95.2	93.2	91.2	91.2	91.2
30°	133.9	126.0	109.1	103.1	100.2	95.2	90.2	87.3	85.3	84.3	83.3
32.5°	135.9	125.0	106.1	100.2	98.2	93.2	86.3	81.3	78.3	77.4	77.4
35°	137.9	123.0	103.1	99.2	98.2	90.2	82.3	76.4	73.4	71.4	72.4
37.5°	137.9	122.0	103.1	100.2	96.2	87.3	78.3	72.4	69.4	66.4	66.4
40°	138.8	122.0	104.1	100.2	93.2	83.3	75.4	67.4	63.5	60.5	60.5
42.5°	137.9	121.0	104.1	100.2	90.2	79.3	69.4	62.5	58.5	56.5	56.5
45°	136.9	120.0	104.1	98.2	85.3	73.4	62.5	55.5	53.6	52.6	51.6
47.5°	136.9	120.0	105.1	97.2	79.3	64.5	53.6	49.6	47.6	45.6	44.6
50°	140.8	121.0	107.1	96.2	71.4	55.5	45.6	41.7	39.7	38.7	38.7
52.5°	145.8	124.0	108.1	93.2	63.5	48.6	39.7	35.7	34.7	33.7	33.7
55°	153.7	126.9	111.1	88.3	56.5	41.7	34.7	31.7	30.7	30.7	30.7
57.5°	164.6	132.9	118.0	84.3	50.6	35.7	30.7	28.8	29.8	30.7	30.7
60°	*177.5*	*142.8*	*126.9*	*79.3*	*42.6*	*31.7*	*28.8*	*27.8*	*29.8*	*30.7*	*30.7*
62.5°	193.4	157.7	135.9	74.4	36.7	27.8	26.8	27.8	28.8	30.7	30.7
65°	212.2	174.5	142.8	68.4	30.7	24.8	25.8	26.8	27.8	30.7	30.7
67.5°	221.2	182.5	137.9	59.5	25.8	22.8	24.8	25.8	27.8	29.8	29.8
70°	206.3	167.6	124.0	45.6	21.8	21.8	22.8	23.8	25.8	28.8	28.8
72.5°	172.6	139.8	92.2	30.7	18.8	19.8	20.8	22.8	24.8	27.8	27.8
75°	148.8	112.1	58.5	20.8	15.9	17.9	19.8	21.8	22.8	25.8	25.8
77.5°	119.0	89.3	36.7	15.9	13.9	15.9	17.9	19.8	20.8	21.8	21.8
80°	78.3	66.4	23.8	11.9	11.9	13.9	15.9	17.9	17.9	19.8	19.8
82.5°	39.7	38.7	15.9	9.9	9.9	11.9	13.9	14.9	15.9	17.9	17.9
85°	17.9	18.8	9.9	6.9	6.9	9.9	10.9	11.9	12.9	11.9	11.9
87.5°	6.0	6.0	5.0	3.0	4.0	5.0	6.0	6.9	6.9	5.0	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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1121 Highway 74 South
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

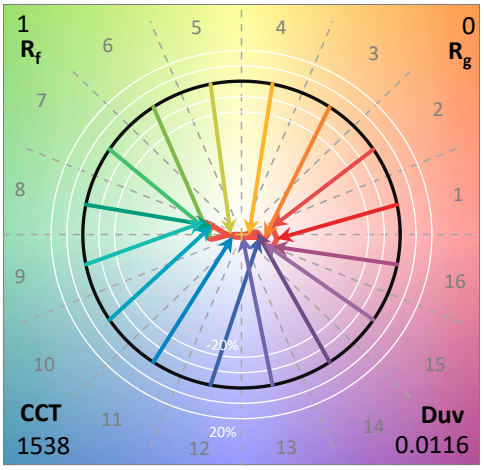
Test Information

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

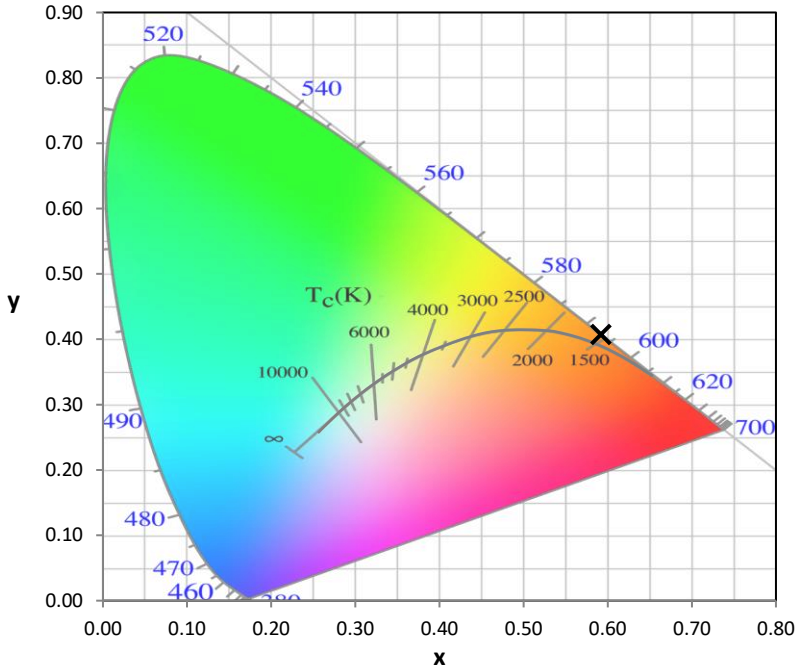
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-1

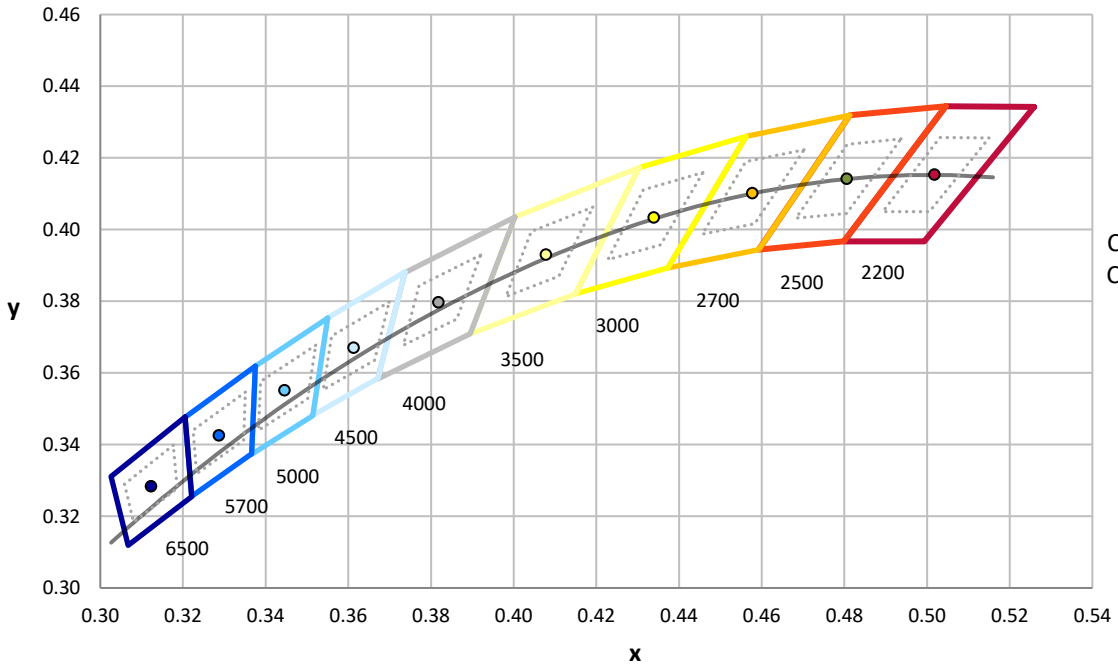
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

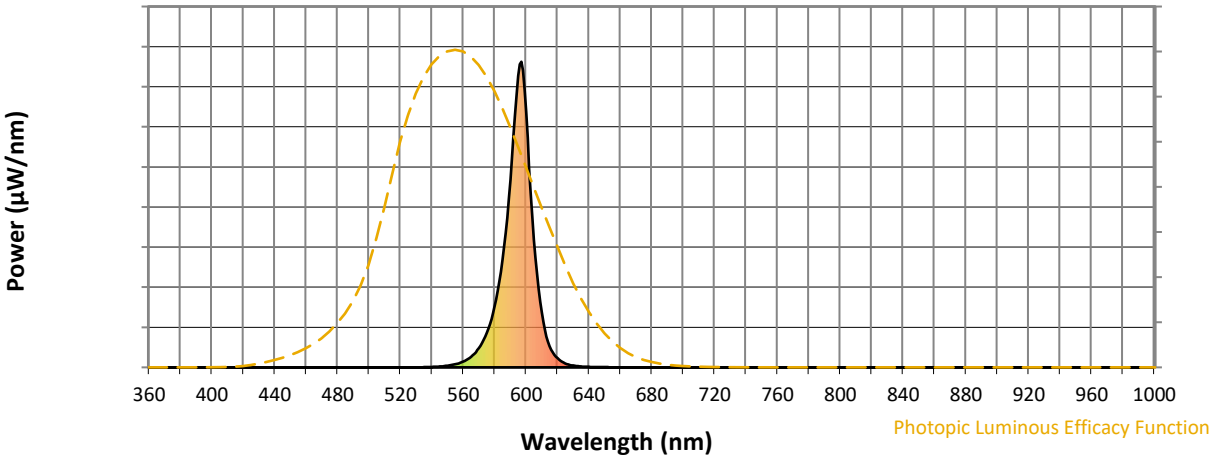


CCT = 1538K
CIE x = 0.5918
CIE y = 0.4076
Duv = 0.0116

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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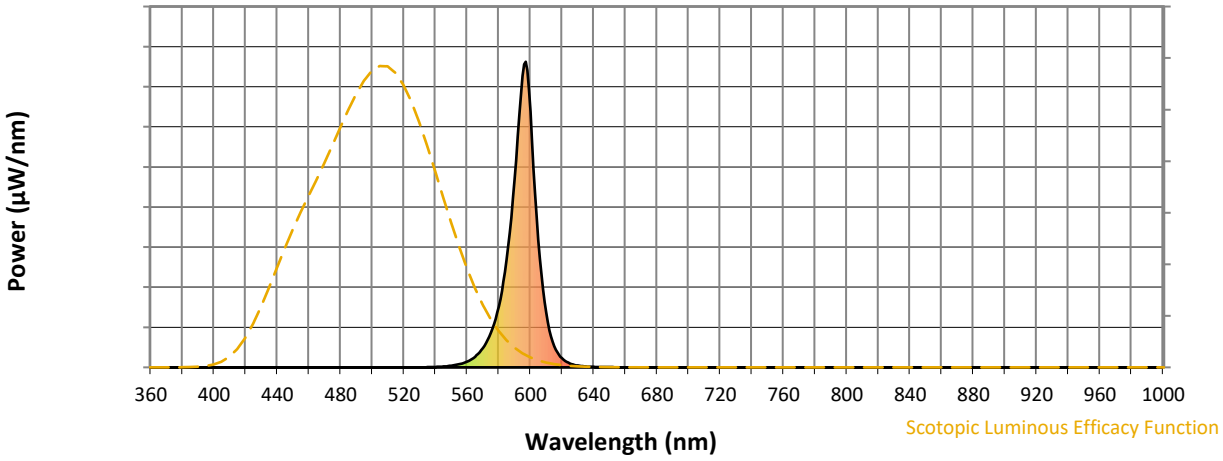
Scotopic Flux vs. Wavelength



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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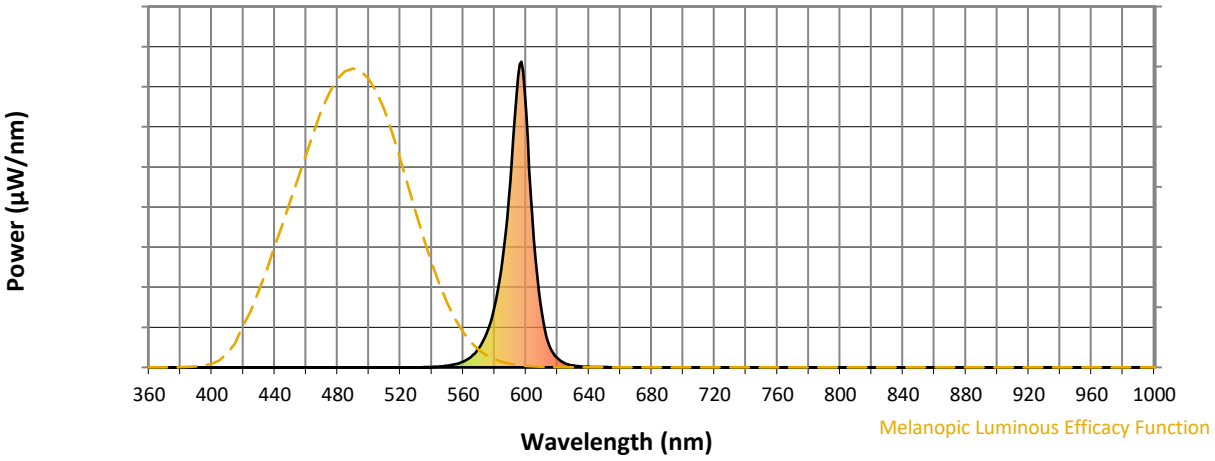
Melanopic Flux vs. Wavelength



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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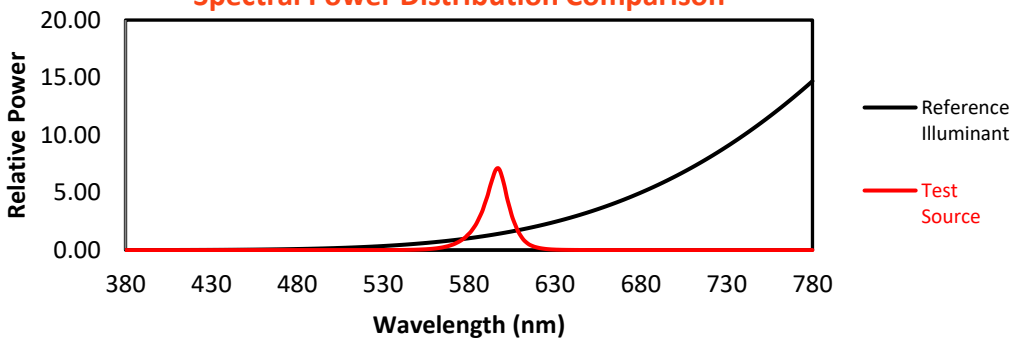
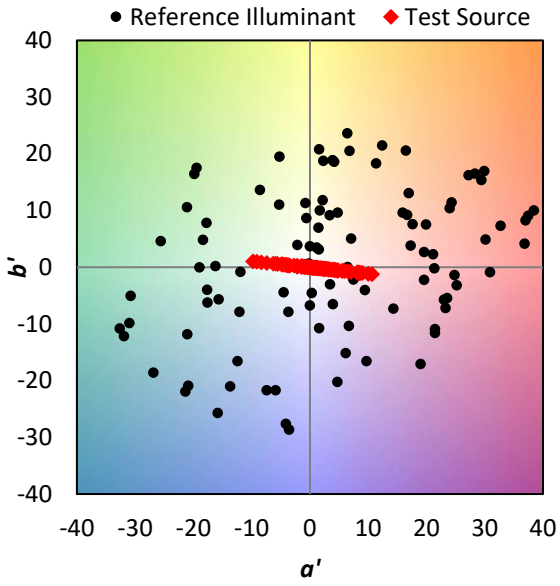
Summary

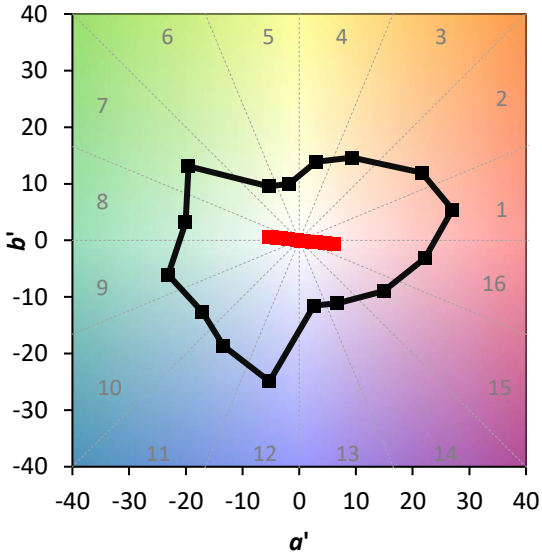
R_f = 1.1
R_g = 0
CIE R_a = -21.8
R_9 = -386.6

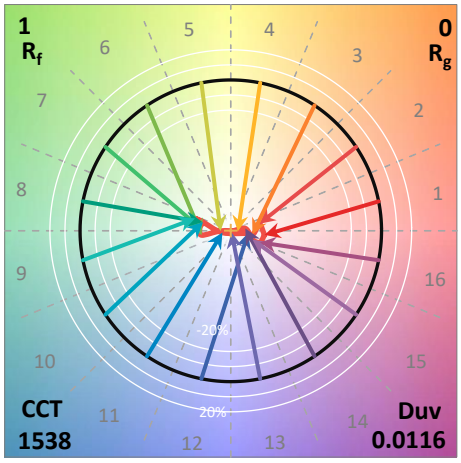
Spectral Power Distribution Comparison

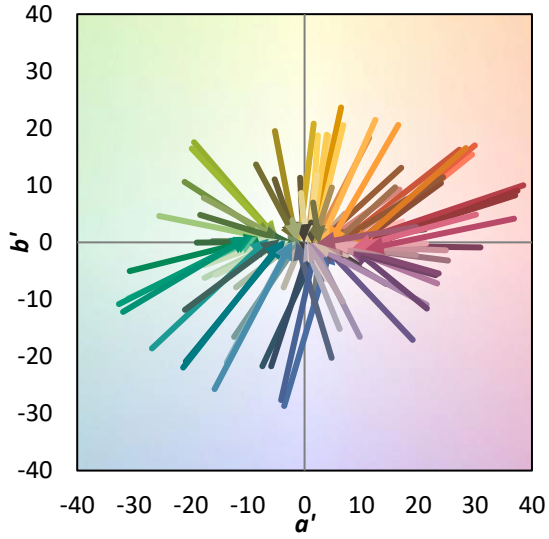


Color Vector Graphics









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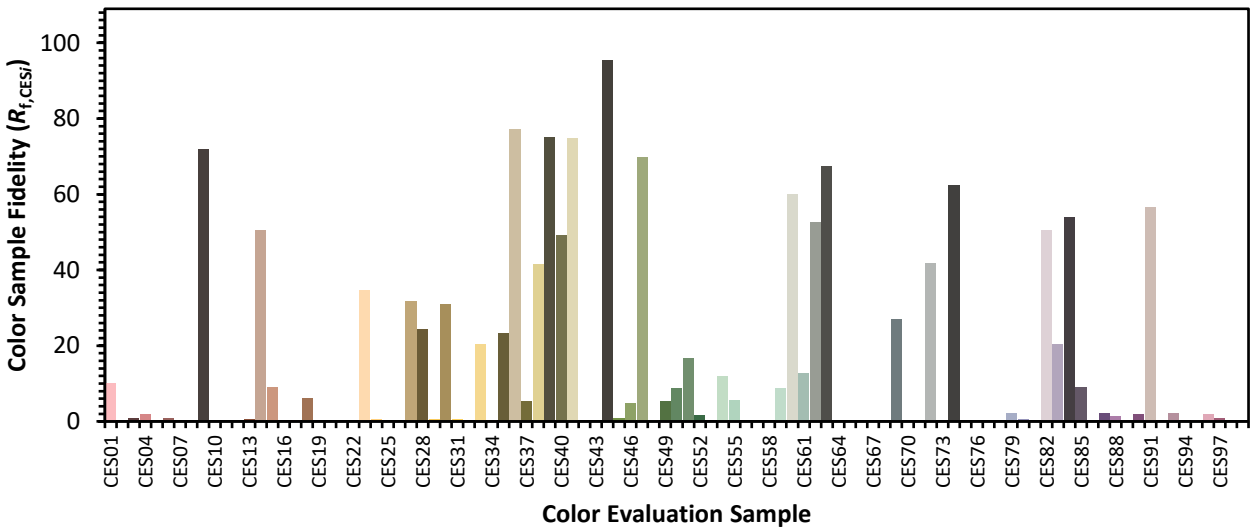
Individual Sample Fidelity Index ($R_{f,i}$)

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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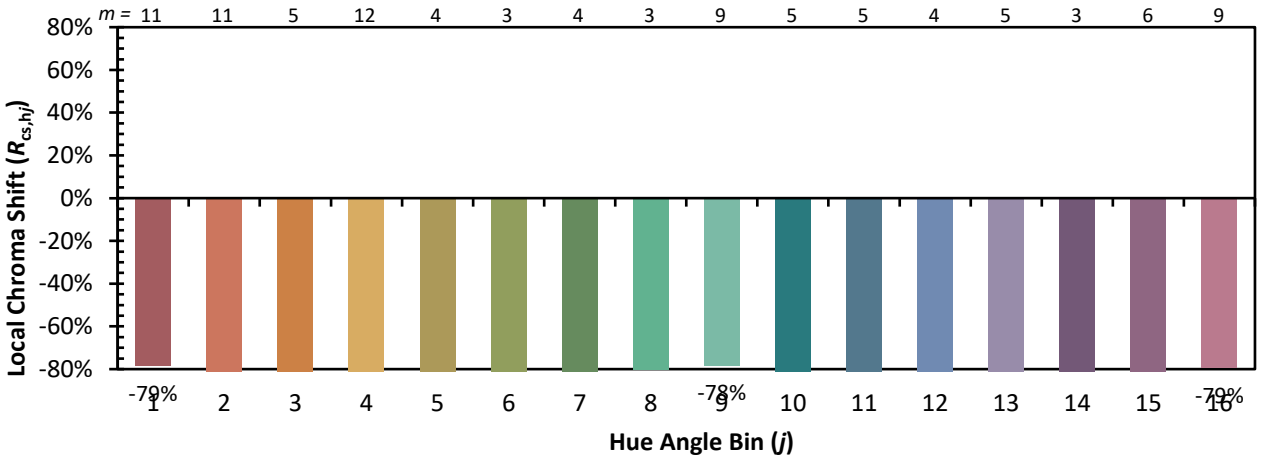
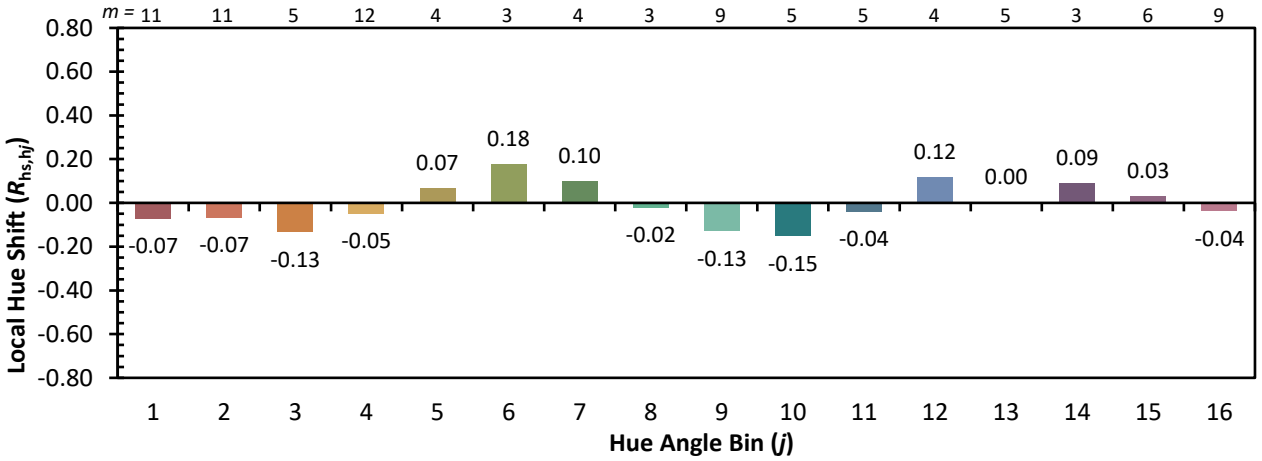
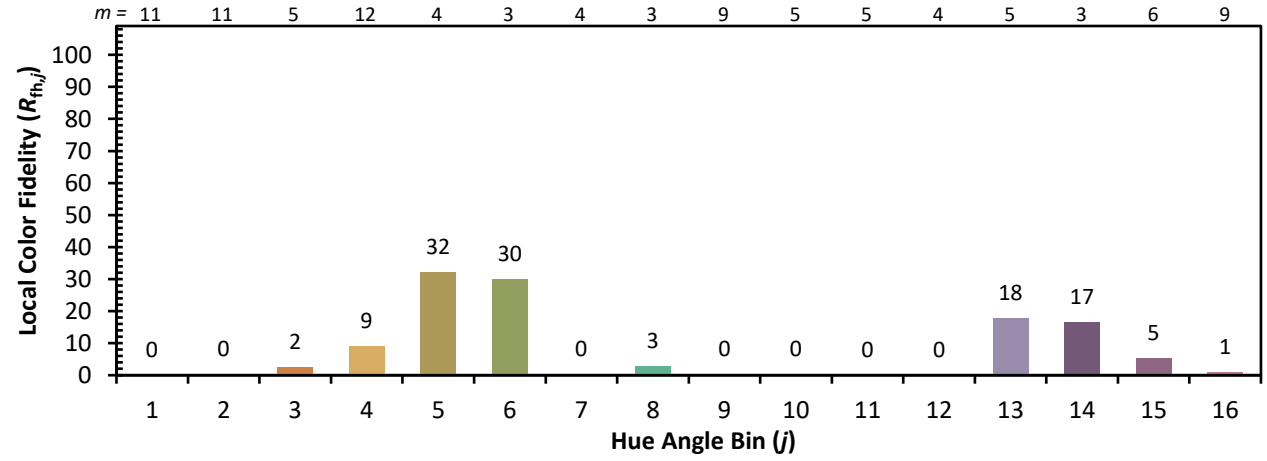
Color Rendition by Hue-Angle Bin







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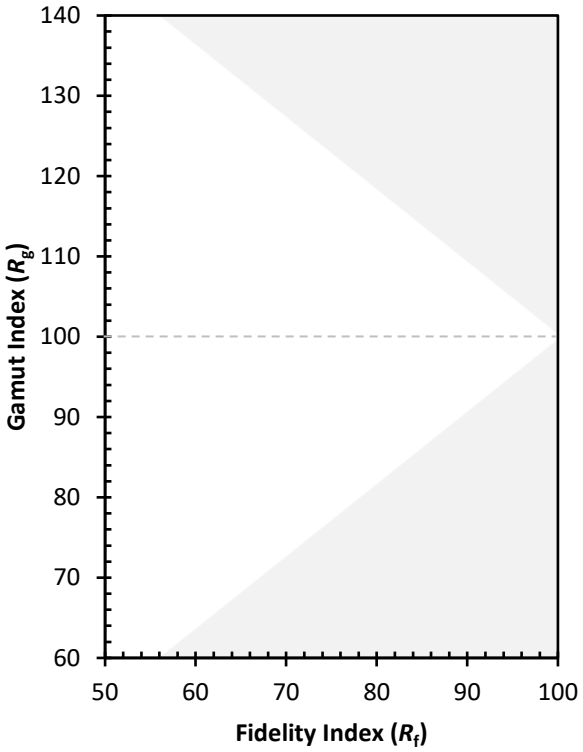
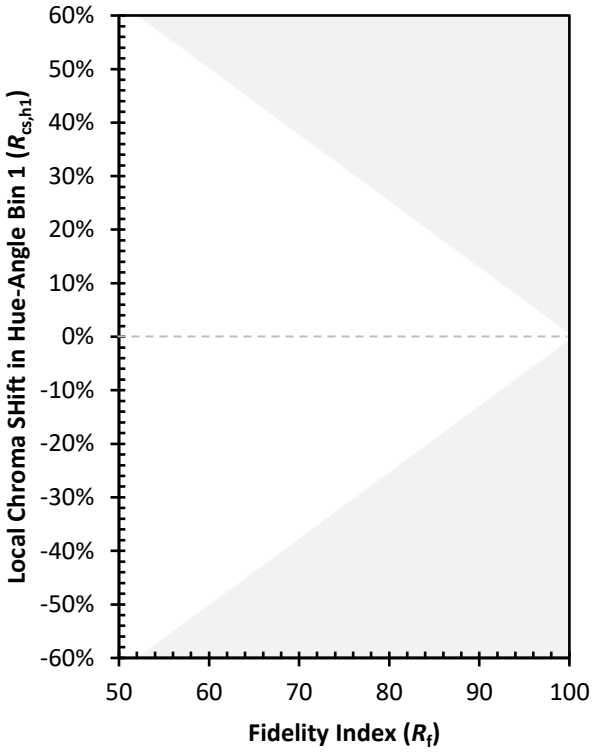
Measure Comparisons





(END OF REPORT)