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: P880521

Luminaire Tested: **EMM2-HSN-VA1-AMB-U-WT4**

Issue Date: 10/02/2024

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:	P880521
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	10/02/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-VA1-AMB-U-WT4
Description:	EPIC MODERN SHORT HOUSING 1W 0CRI 1554K VISUAL COMFORT FIXTURE w/ DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source:	(1) 1554K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	843 lumens
Efficiency:	N/A
Efficacy:	26.3 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	32
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	16%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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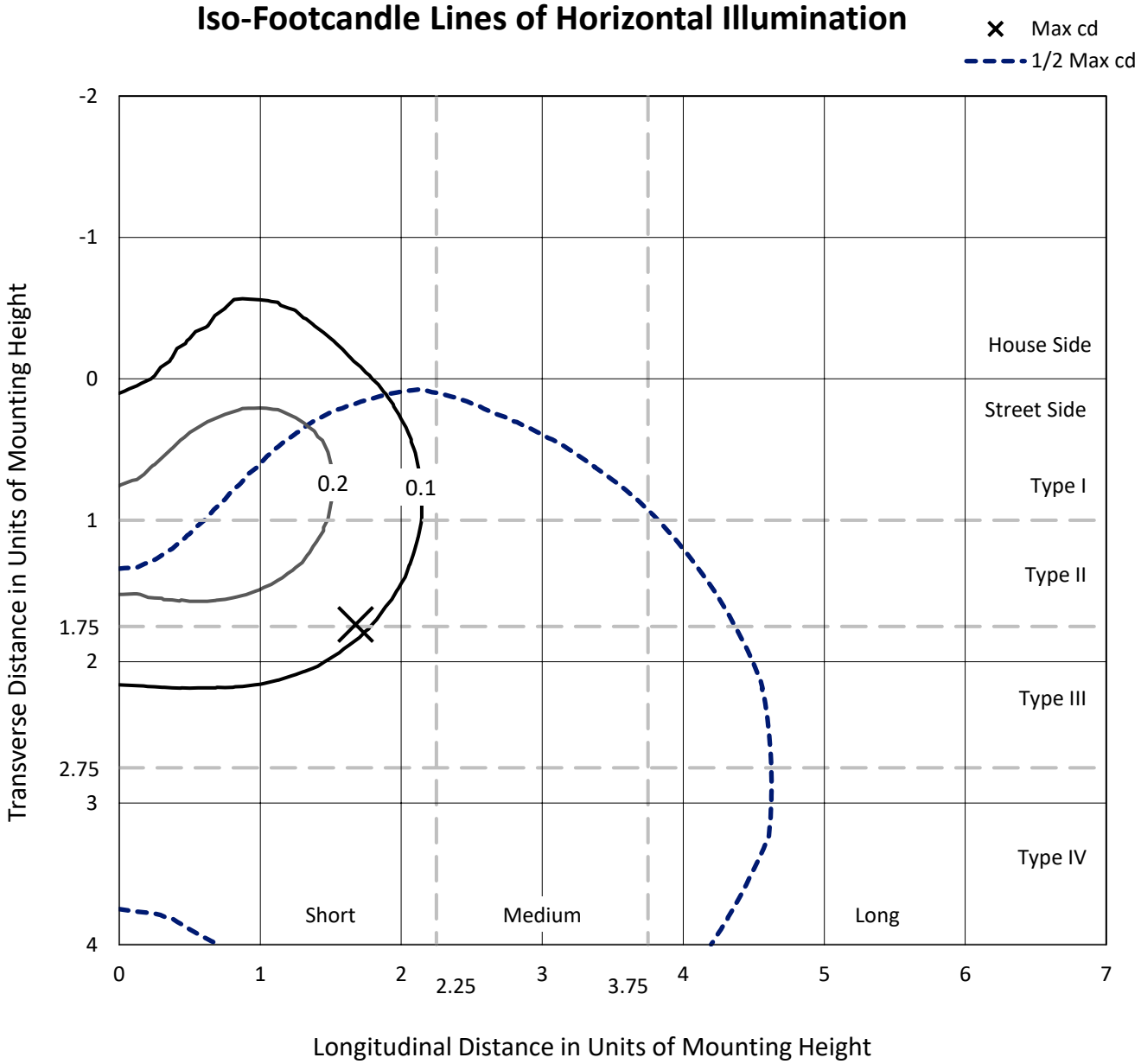
REPORT NUMBER: P880521
CATALOG NUMBER: EMM2-HSN-VA1-AMB-U-WT4

Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 0.3 fc
Type IV - Short - N/A

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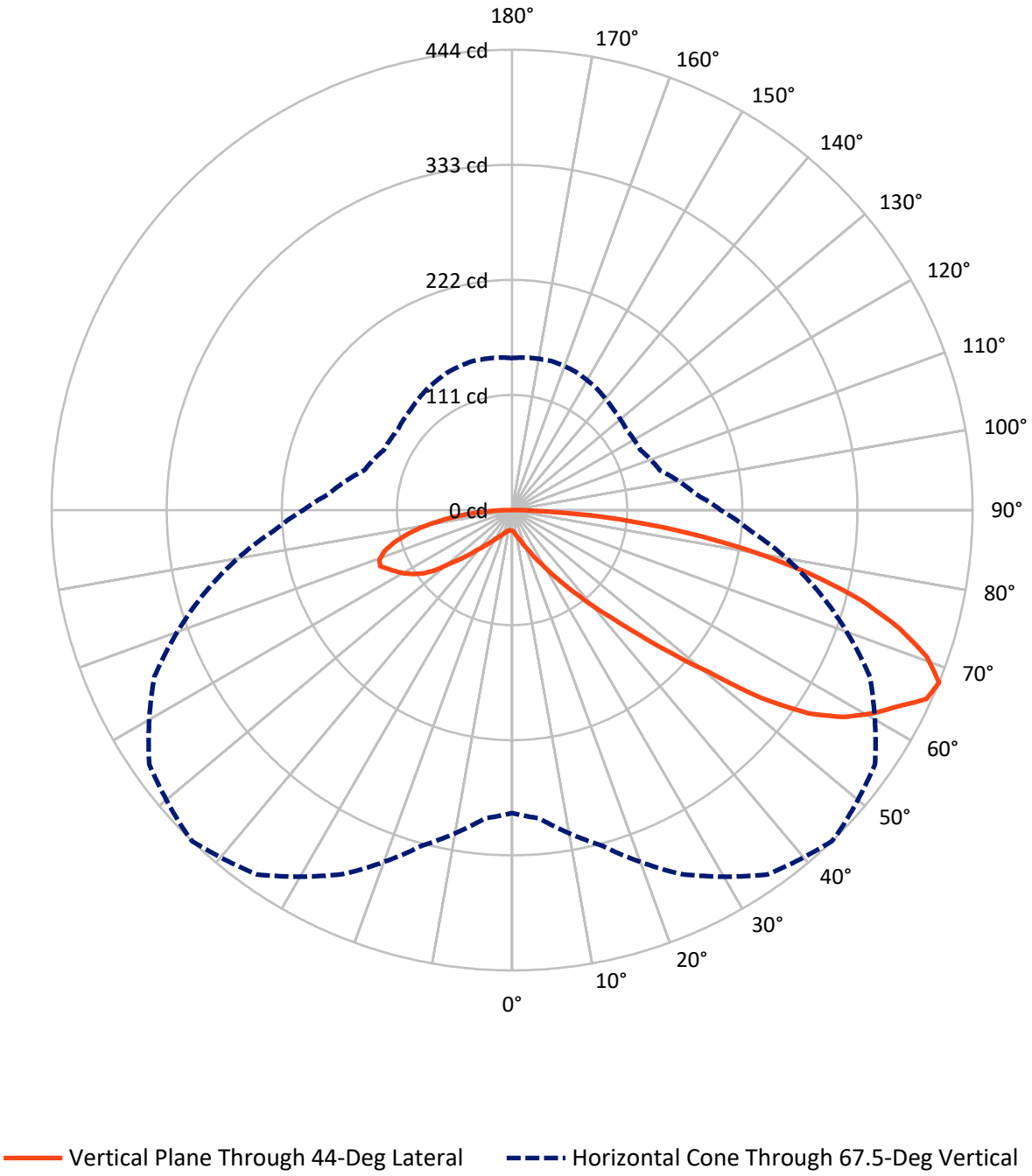
Luminous Intensity Polar Plot



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REPORT NUMBER: P880521
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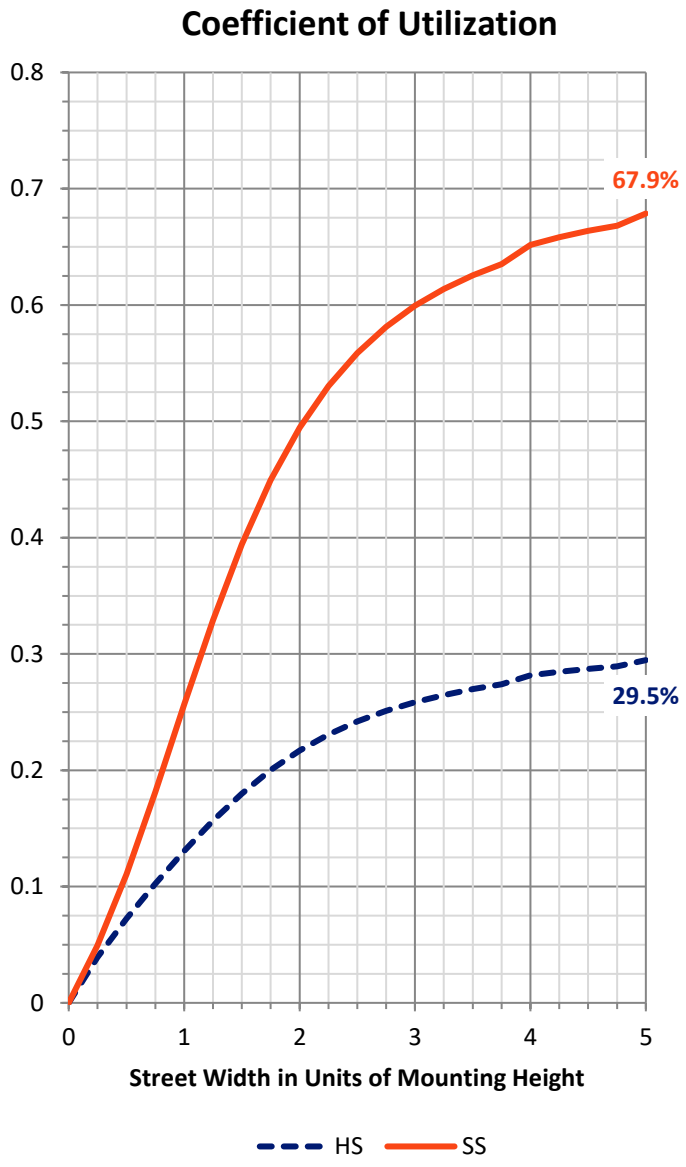
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.3	0.0	257.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	585.7	0.0	585.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	843.0	0.0	843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.2
10°-20°	7.6	0.9
20°-30°	18.1	2.1
30°-40°	39.6	4.7
40°-50°	85.7	10.2
50°-60°	175.1	20.8
60°-70°	245.6	29.1
70°-80°	205.5	24.4
80°-90°	63.8	7.6
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°	843.0	100.0
0°-180°	843.0	100.0



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REPORT NUMBER: P880521
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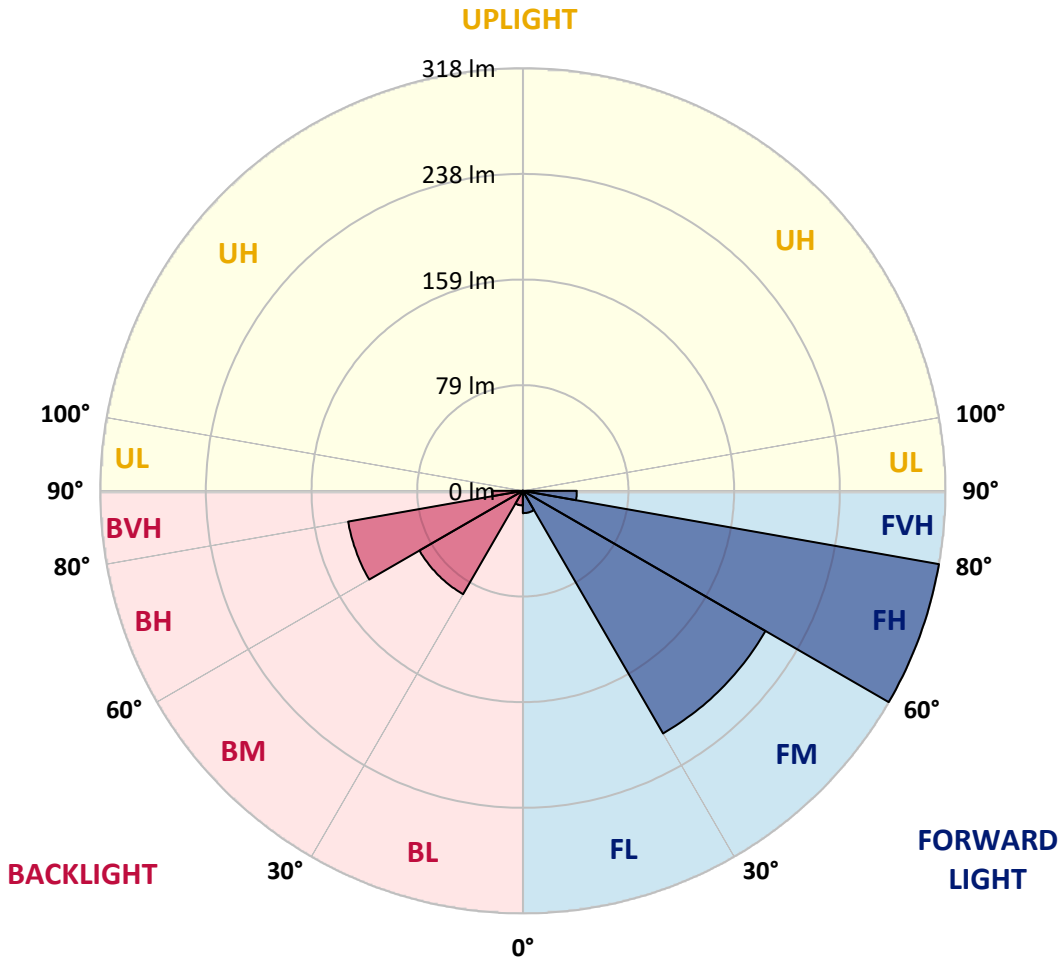
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	16.8	2.0			
FM	(30°-60°)	210.6	25.0			
FH	(60°-80°)	317.7	37.7			G0/660
FVH	(80°-90°)	40.6	4.8			G1/100
BL	(0°-30°)	11.0	1.3	B0/110		
BM	(30°-60°)	89.7	10.6	B0/220		
BH	(60°-80°)	133.4	15.8	B1/500		G1/500
BVH	(80°-90°)	23.2	2.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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REPORT NUMBER: P880521
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	19.8	19.8	19.8	19.8	19.8	*19.8*	19.8	19.8	19.8	19.8	19.8
2.5°	20.8	20.8	20.8	20.8	20.8	*20.8*	20.8	20.8	20.8	20.8	20.8
5°	22.8	22.8	22.8	22.8	21.8	*21.8*	21.8	21.8	21.8	20.8	20.8
7.5°	23.8	23.8	23.8	23.8	23.8	*23.8*	23.8	22.8	22.8	21.8	21.8
10°	25.8	26.8	26.8	26.8	25.8	*25.8*	25.8	24.8	24.8	23.8	22.8
12.5°	28.8	28.8	28.8	28.8	28.8	*27.8*	27.8	27.8	26.8	25.8	24.8
15°	31.7	31.7	31.7	31.7	31.7	*30.7*	30.7	29.7	28.8	27.8	26.8
17.5°	35.7	35.7	35.7	35.7	34.7	*34.7*	34.7	33.7	31.7	30.7	28.8
20°	39.7	39.7	38.7	38.7	38.7	*38.7*	38.7	37.7	35.7	33.7	31.7
22.5°	43.6	43.6	43.6	44.6	44.6	*43.6*	43.6	42.6	40.7	37.7	35.7
25°	48.6	48.6	49.6	50.6	50.6	*50.6*	50.6	48.6	46.6	42.6	39.7
27.5°	54.5	54.5	56.5	57.5	57.5	*57.5*	57.5	55.5	52.6	48.6	43.6
30°	61.5	61.5	63.5	64.5	65.4	*66.4*	65.4	64.5	60.5	54.5	49.6
32.5°	70.4	70.4	71.4	74.4	76.3	*77.3*	77.3	75.4	69.4	63.5	55.5
35°	80.3	80.3	81.3	86.3	89.2	*90.2*	90.2	87.3	82.3	73.4	62.5
37.5°	90.2	91.2	94.2	99.2	103.1	*105.1*	105.1	103.1	95.2	84.3	72.4
40°	103.1	104.1	108.1	114.0	120.0	*123.9*	123.0	121.0	112.0	99.2	83.3
42.5°	117.0	119.0	123.9	131.9	140.8	*143.8*	144.8	141.8	130.9	116.0	97.2
45°	134.9	136.8	141.8	153.7	164.6	*171.5*	172.5	168.6	155.7	133.9	111.1
47.5°	153.7	155.7	165.6	181.5	196.3	*205.3*	204.3	201.3	184.4	157.7	128.9
50°	176.5	177.5	192.4	215.2	238.0	*245.9*	246.9	238.0	215.2	182.4	147.7
52.5°	206.2	206.2	229.0	261.8	291.5	*301.4*	299.4	288.5	255.8	209.2	165.6
55°	248.9	248.9	270.7	306.4	334.2	*346.1*	345.1	334.2	299.4	239.0	185.4
57.5°	284.6	284.6	302.4	334.2	361.9	*376.8*	376.8	362.9	322.3	265.7	205.3
60°	304.4	308.4	325.2	358.0	386.7	*398.6*	398.6	381.7	341.1	280.6	219.1
62.5°	309.4	314.3	338.1	373.8	405.5	*417.4*	417.4	403.6	364.9	299.4	233.0
65°	304.4	310.4	341.1	383.7	423.4	*439.3*	440.2	428.4	384.7	313.3	240.0
67.5°	*292.5*	*298.5*	*335.1*	*387.7*	*429.3*	*444.2*	*443.2*	*427.4*	*380.8*	*306.4*	*231.0*
70°	275.7	280.6	321.3	375.8	412.5	*424.4*	424.4	406.5	361.9	292.5	216.2
72.5°	252.8	258.8	295.5	346.1	377.8	*390.7*	388.7	376.8	334.2	266.7	197.3
75°	222.1	225.1	256.8	300.4	332.2	*348.0*	349.0	333.2	294.5	235.0	172.5
77.5°	181.5	185.4	211.2	247.9	281.6	*292.5*	292.5	280.6	245.9	197.3	144.8
80°	135.8	138.8	158.6	188.4	214.2	*227.1*	228.1	219.1	195.3	156.7	113.0
82.5°	92.2	89.2	108.1	126.9	148.7	*158.6*	158.6	157.7	139.8	115.0	81.3
85°	38.7	41.6	48.6	65.4	82.3	*91.2*	90.2	91.2	82.3	69.4	50.6
87.5°	2.0	2.0	3.0	7.9	16.9	*19.8*	21.8	24.8	24.8	21.8	17.8
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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REPORT NUMBER: P880521
CATALOG NUMBER: EMM2-HSN-VA1-AMB-U-WT4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
5°	20.8	20.8	19.8	19.8	19.8	19.8	19.8	18.8	18.8	18.8	18.8
7.5°	21.8	21.8	20.8	20.8	19.8	19.8	19.8	18.8	18.8	18.8	18.8
10°	22.8	22.8	21.8	20.8	20.8	19.8	19.8	19.8	19.8	19.8	19.8
12.5°	23.8	23.8	22.8	21.8	21.8	20.8	20.8	19.8	19.8	19.8	19.8
15°	25.8	25.8	23.8	22.8	22.8	21.8	20.8	20.8	20.8	20.8	20.8
17.5°	28.8	27.8	25.8	24.8	23.8	22.8	22.8	21.8	21.8	21.8	21.8
20°	30.7	29.7	27.8	25.8	24.8	23.8	23.8	22.8	22.8	22.8	22.8
22.5°	33.7	32.7	29.7	27.8	26.8	25.8	24.8	24.8	24.8	24.8	24.8
25°	37.7	35.7	32.7	29.7	28.8	27.8	26.8	26.8	25.8	25.8	26.8
27.5°	41.6	39.7	35.7	32.7	30.7	29.7	28.8	28.8	28.8	27.8	27.8
30°	46.6	43.6	38.7	35.7	32.7	31.7	30.7	30.7	30.7	30.7	30.7
32.5°	51.6	48.6	42.6	38.7	36.7	34.7	33.7	33.7	33.7	33.7	32.7
35°	58.5	54.5	47.6	42.6	39.7	38.7	37.7	37.7	37.7	37.7	36.7
37.5°	66.4	61.5	52.6	46.6	43.6	42.6	41.6	41.6	41.6	41.6	41.6
40°	76.3	69.4	59.5	52.6	49.6	47.6	47.6	46.6	46.6	46.6	47.6
42.5°	87.3	79.3	66.4	59.5	55.5	53.5	52.6	52.6	53.5	53.5	53.5
45°	100.1	90.2	76.3	67.4	62.5	61.5	60.5	59.5	60.5	61.5	60.5
47.5°	115.0	103.1	85.3	75.4	71.4	70.4	68.4	68.4	68.4	69.4	68.4
50°	130.9	117.0	95.2	85.3	81.3	80.3	79.3	79.3	78.3	78.3	77.3
52.5°	146.7	130.9	107.1	98.2	94.2	94.2	93.2	92.2	91.2	88.2	88.2
55°	161.6	143.8	120.0	109.1	105.1	105.1	106.1	108.1	107.1	104.1	105.1
57.5°	177.5	155.7	127.9	116.0	112.0	113.0	115.0	119.0	122.0	123.9	123.9
60°	190.4	165.6	133.9	121.0	119.0	120.0	123.9	127.9	133.9	138.8	140.8
62.5°	203.3	177.5	142.8	127.9	123.9	125.9	129.9	136.8	142.8	147.7	147.7
65°	209.2	183.4	149.7	135.8	130.9	131.9	135.8	142.8	147.7	149.7	149.7
67.5°	*201.3*	*177.5*	*147.7*	*136.8*	*134.9*	*137.8*	*142.8*	*146.7*	*148.7*	*147.7*	*146.7*
70°	187.4	165.6	138.8	130.9	130.9	135.8	143.8	146.7	145.8	142.8	141.8
72.5°	170.5	149.7	127.9	121.0	123.0	128.9	136.8	140.8	138.8	133.9	132.9
75°	147.7	129.9	111.1	109.1	112.0	118.0	123.9	128.9	126.9	123.0	123.0
77.5°	123.0	109.1	94.2	93.2	97.2	103.1	109.1	111.1	111.1	108.1	108.1
80°	96.2	85.3	74.4	75.4	80.3	86.3	91.2	91.2	90.2	89.2	89.2
82.5°	69.4	62.5	56.5	57.5	61.5	65.4	69.4	69.4	68.4	68.4	67.4
85°	43.6	39.7	35.7	37.7	42.6	45.6	46.6	46.6	45.6	45.6	45.6
87.5°	15.9	14.9	15.9	16.9	19.8	21.8	23.8	23.8	23.8	23.8	23.8
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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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: SP1-2407-176-1

Test Date: 09/23/2024

Luminaire Tested: MEM2-HTN-VA-60-AMB-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-60-AMB-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

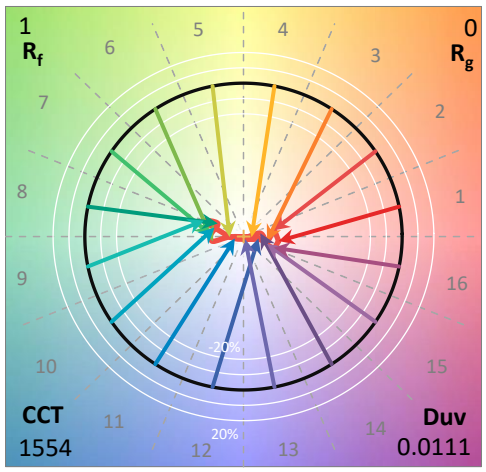
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/27/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-VA-60-AMB-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 60W AMBER WAVESTREAM WIDE

Spectral Parameters

CCT (K):	1554
CIE u':	0.3509
CIE v':	0.5472
Duv:	0.0111
CIE x:	0.5903
CIE y:	0.4091
CIE z:	0.0006
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	592
Purity:	99.98723
Rf:	1.1
Rg:	0

CRI (Ra):	-22.5				
R1:	-35.4	R9:	-390.1		
R2:	51.6	R10:	27.7		
R3:	17.0	R11:	-96.9		
R4:	-69.3	R12:	-12.7		
R5:	-41.7	R13:	-16.6		
R6:	40.2	R14:	45.8		
R7:	-7.3	R15:	-68.6		
R8:	-135.2				



Test Conditions

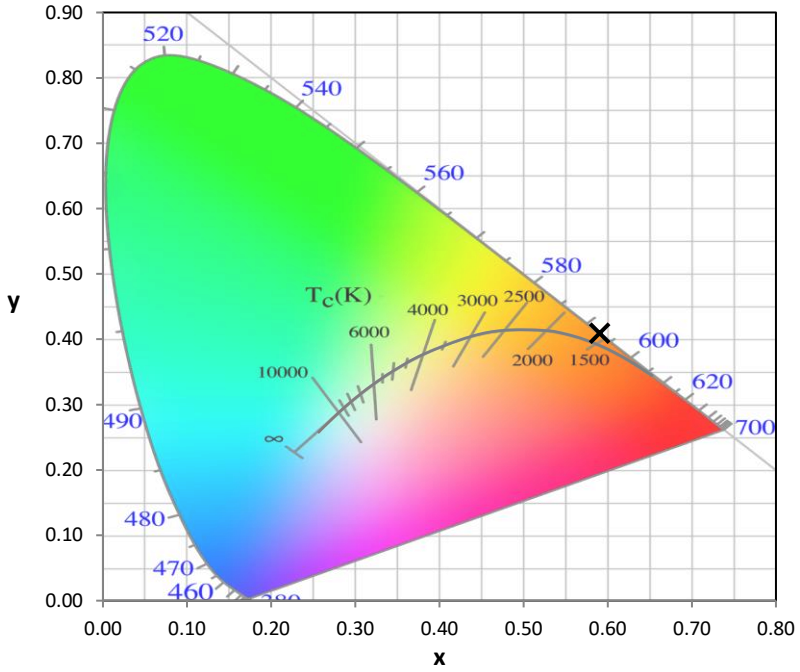
Stabilization Time:	98M
Operation Time:	2H 38M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-1

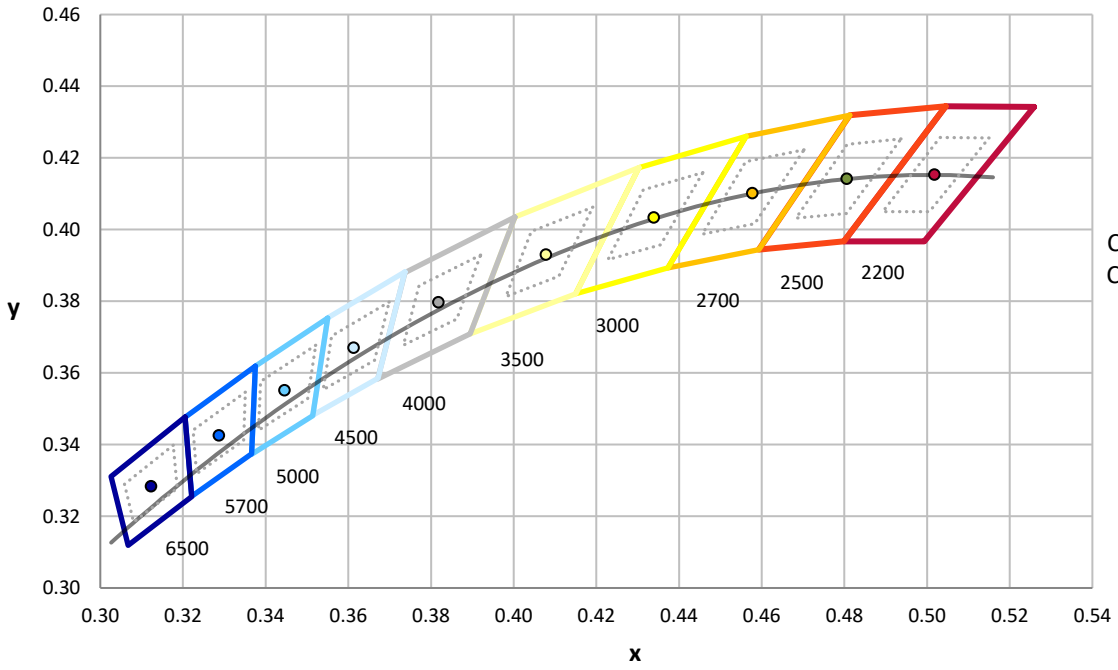
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-1

CIE 1931 Chromaticity Diagram



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

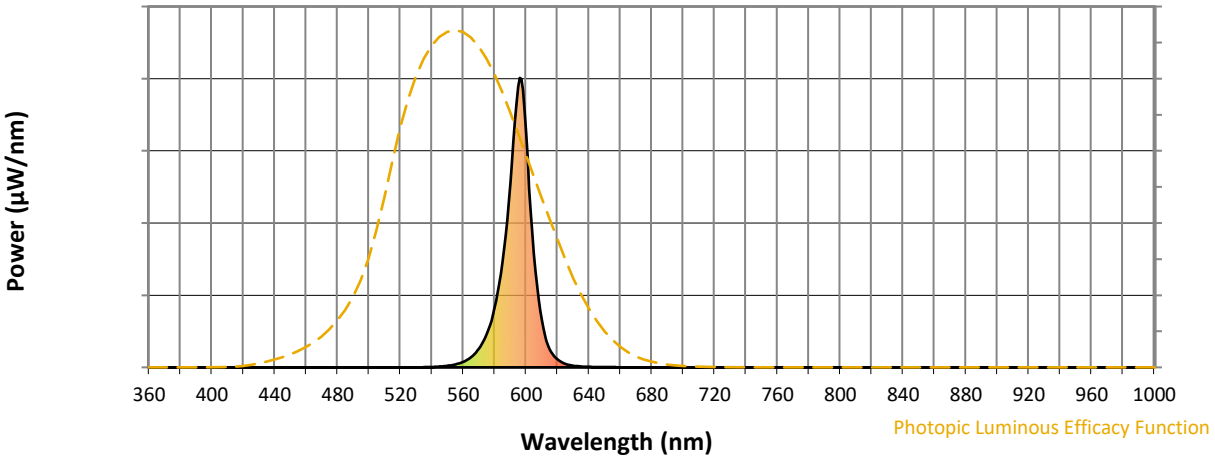


CCT = 1554K
CIE x = 0.5903
CIE y = 0.4091
Duv = 0.0111

Point lies outside the range

REPORT NUMBER: SP1-2407-176-1

Photopic Flux vs. Wavelength

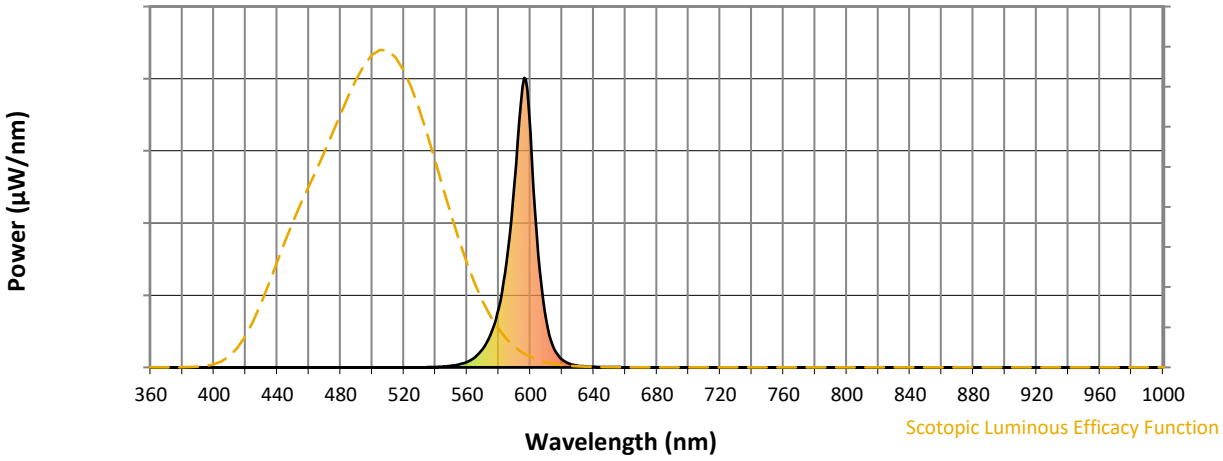


Photopic Lumens: NR

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	27	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	12	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	1	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	1	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	35	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	64	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	116	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	206	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	364	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	639	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	970	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	808	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	391	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	164	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	63	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-1

Scotopic Flux vs. Wavelength

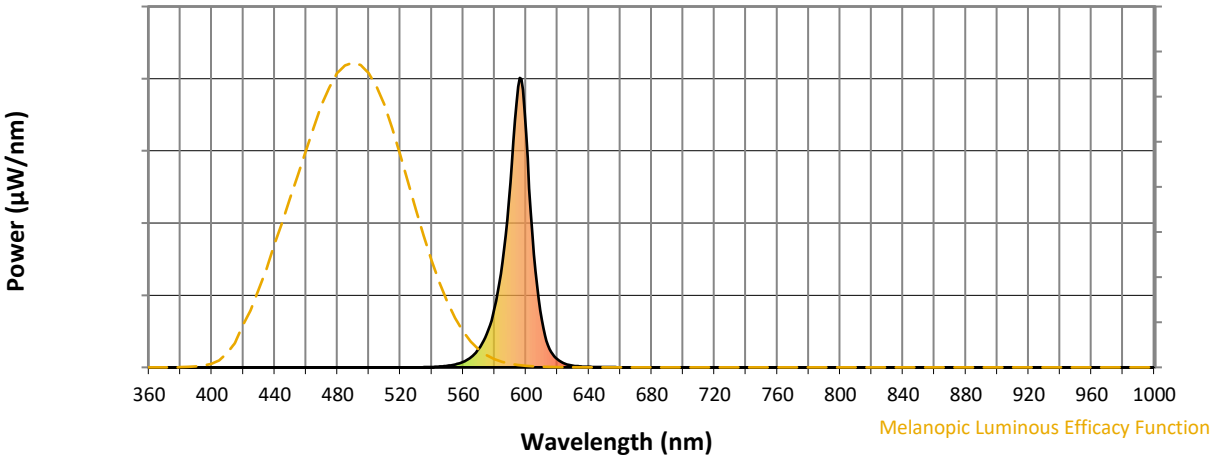


Scotopic Lumens: NR **S/P: 0.22**

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	27	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	12	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	1	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	1	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	35	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	64	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	116	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	206	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	364	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	639	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	970	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	808	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	391	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	164	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	63	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-1

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	27	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	12	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	1	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	1	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	35	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	64	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	116	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	206	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	364	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	639	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	970	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	808	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	391	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	164	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	63	NR	745	0	NR	875	0	NR			

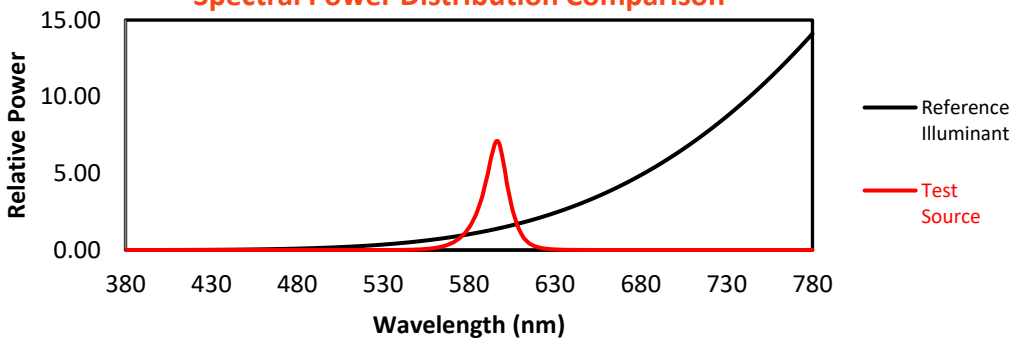
REPORT NUMBER: SP1-2407-176-1

TM-30-18

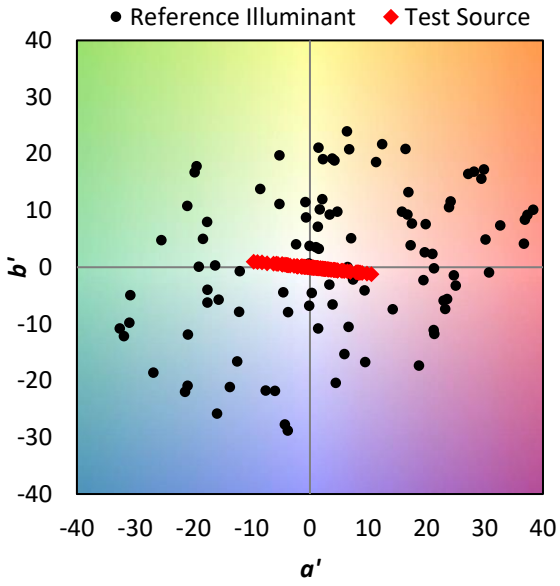
Summary

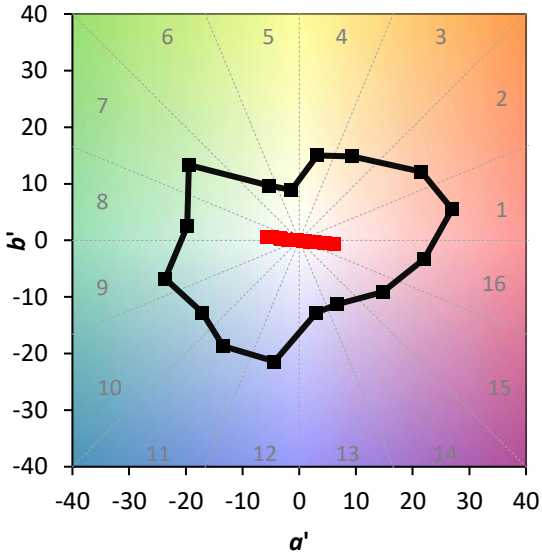
R_f = 1.1
R_g = 0
CIE R_a = -22.5
R_9 = -390.1

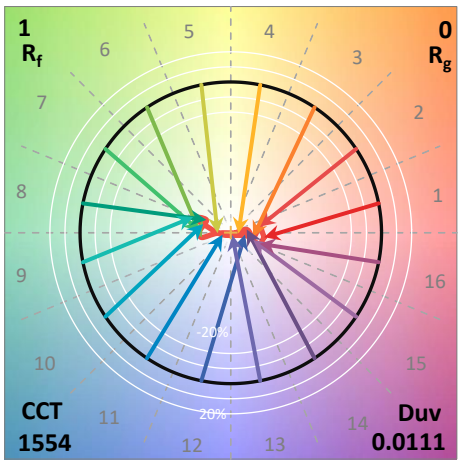
Spectral Power Distribution Comparison

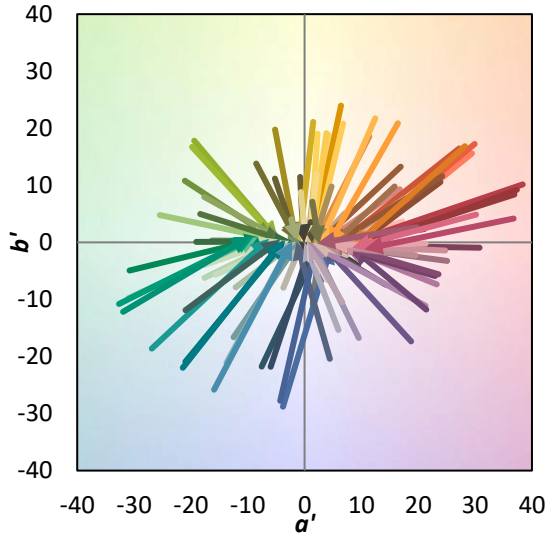


Color Vector Graphics







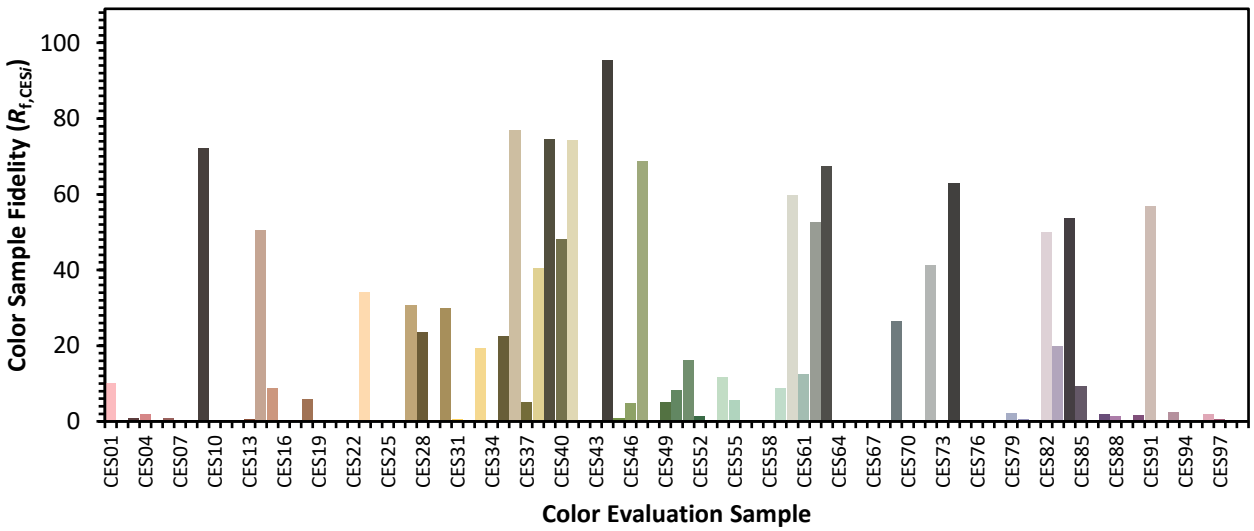


REPORT NUMBER: SP1-2407-176-1

TM-30-18

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

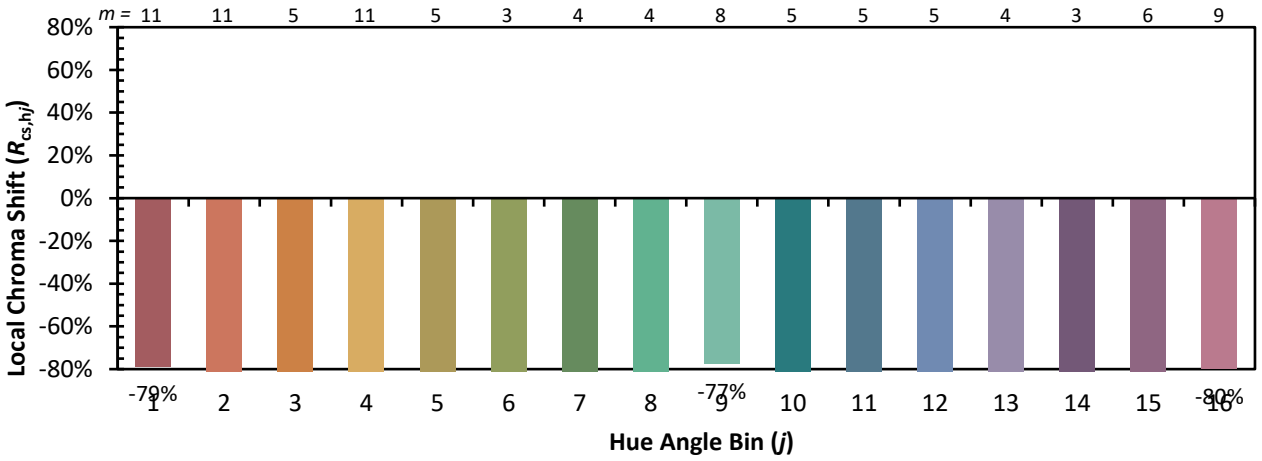
CES01 = 90	CES26 = 0	CES51 = 16	CES76 = 0
CES02 = 69	CES27 = 31	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 24	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 12	CES79 = 2
CES05 = 52	CES30 = 30	CES55 = 6	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 19	CES58 = 0	CES83 = 20
CES09 = 29	CES34 = 0	CES59 = 9	CES84 = 54
CES10 = 87	CES35 = 22	CES60 = 60	CES85 = 9
CES11 = 70	CES36 = 77	CES61 = 12	CES86 = 0
CES12 = 75	CES37 = 5	CES62 = 53	CES87 = 2
CES13 = 47	CES38 = 40	CES63 = 67	CES88 = 1
CES14 = 76	CES39 = 75	CES64 = 0	CES89 = 0
CES15 = 74	CES40 = 48	CES65 = 0	CES90 = 2
CES16 = 49	CES41 = 74	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 59	CES43 = 0	CES68 = 0	CES93 = 2
CES19 = 80	CES44 = 95	CES69 = 26	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 5	CES71 = 0	CES96 = 2
CES22 = 87	CES47 = 69	CES72 = 41	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 5	CES74 = 63	CES99 = 0
CES25 = 79	CES50 = 8	CES75 = 0	

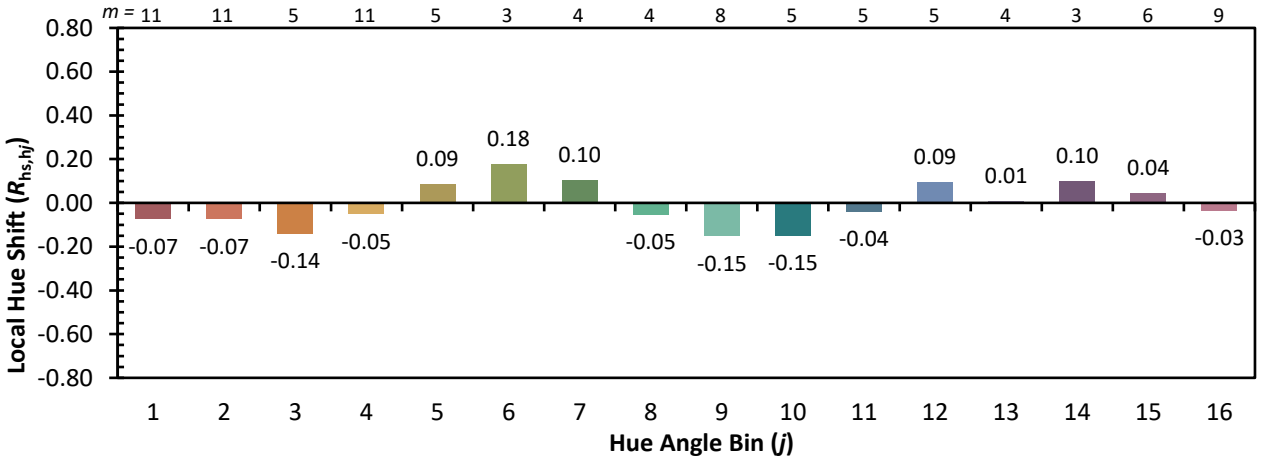


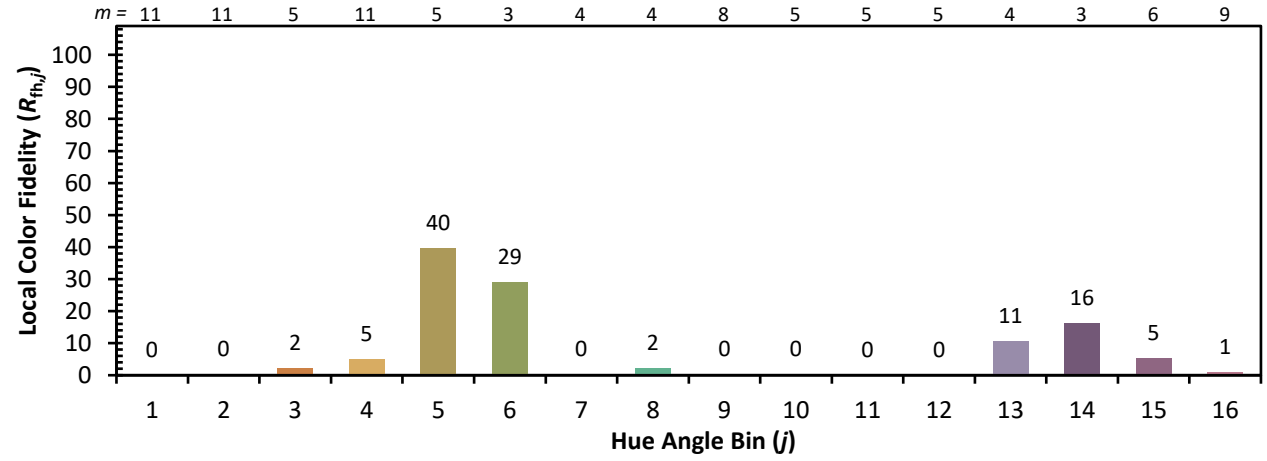
REPORT NUMBER: SP1-2407-176-1

TM-30-18

Color Rendition by Hue-Angle Bin



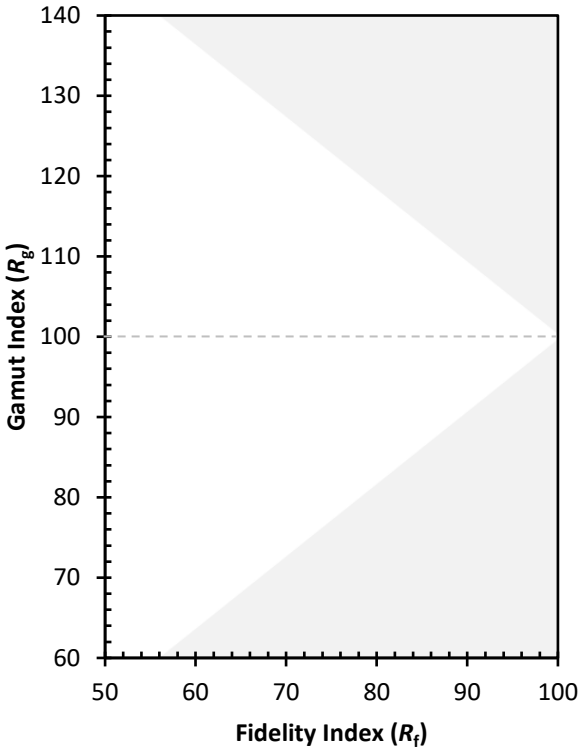


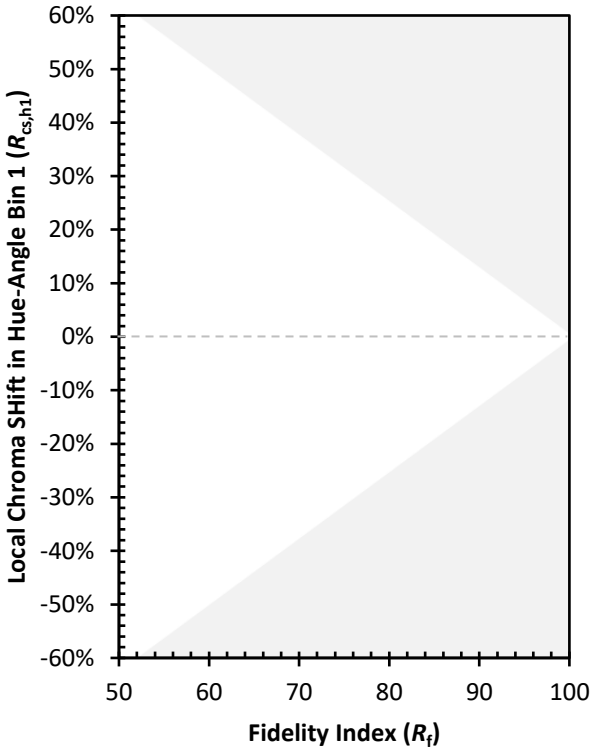


REPORT NUMBER: SP1-2407-176-1

TM-30-18

Measure Comparisons





(END OF REPORT)