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: P869197

Luminaire Tested: **EMM2-HTN-SA3A-AMB-U-T2U**

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:	P869197
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-SA3A-AMB-U-T2U
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 46W 0CRI 1540K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source:	(30) 1540K CCT, 0 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1451.8 lumens
Efficiency:	N/A
Efficacy:	31.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G1

Input Watts (W):	46
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.75%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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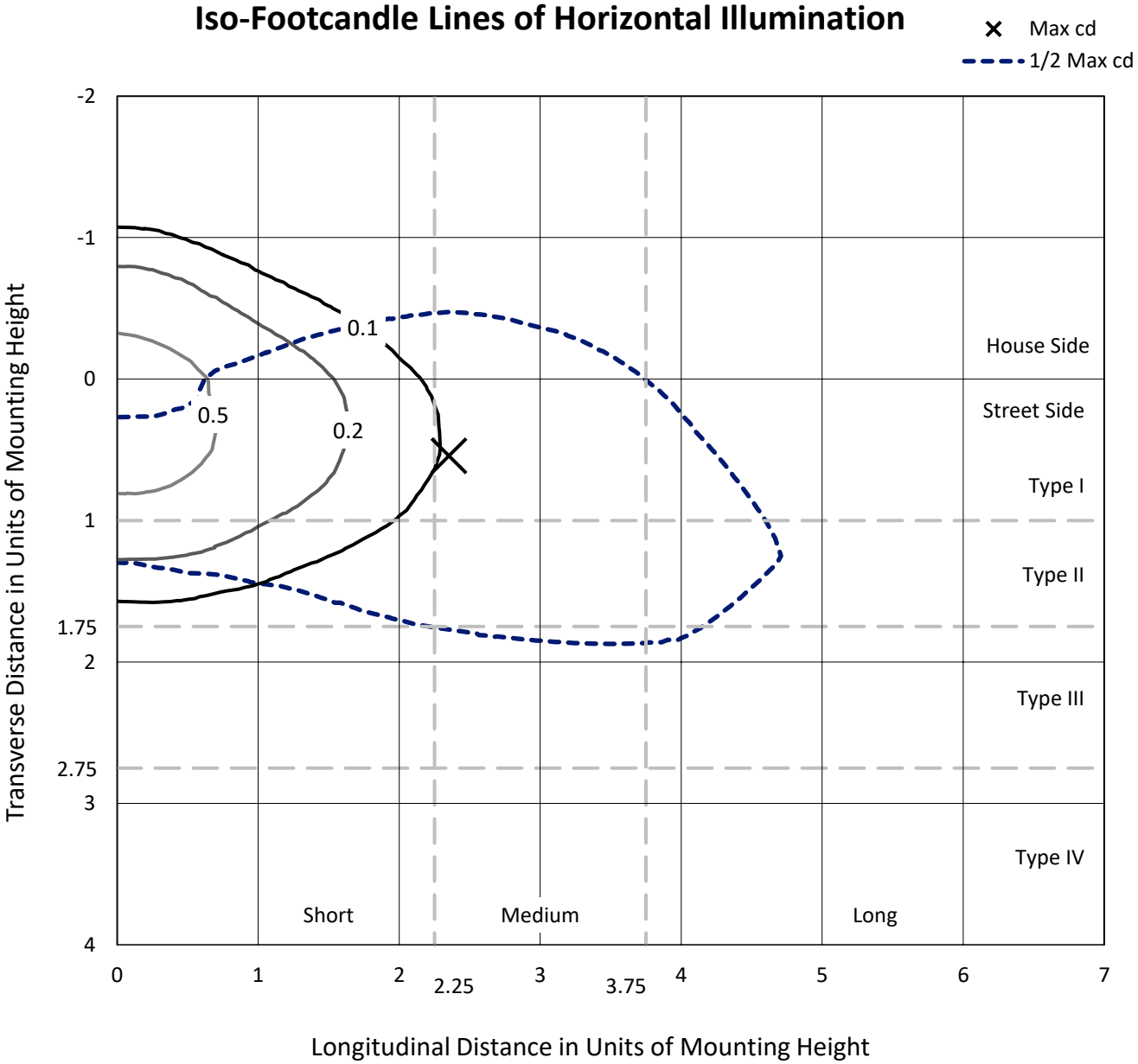
REPORT NUMBER: P869197
CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T2U

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 0.8 fc
Type III - Medium - N/A

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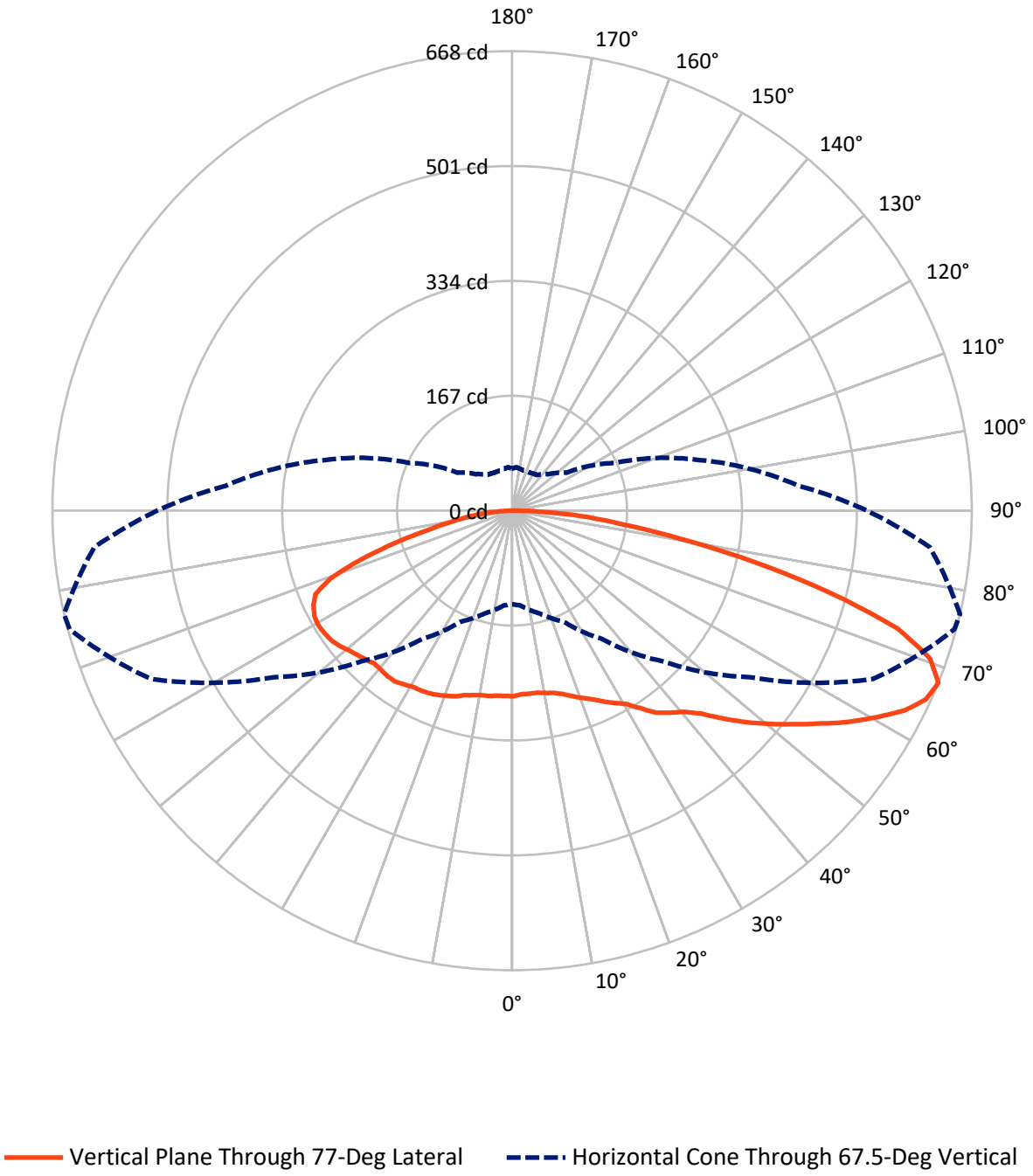
Luminous Intensity Polar Plot



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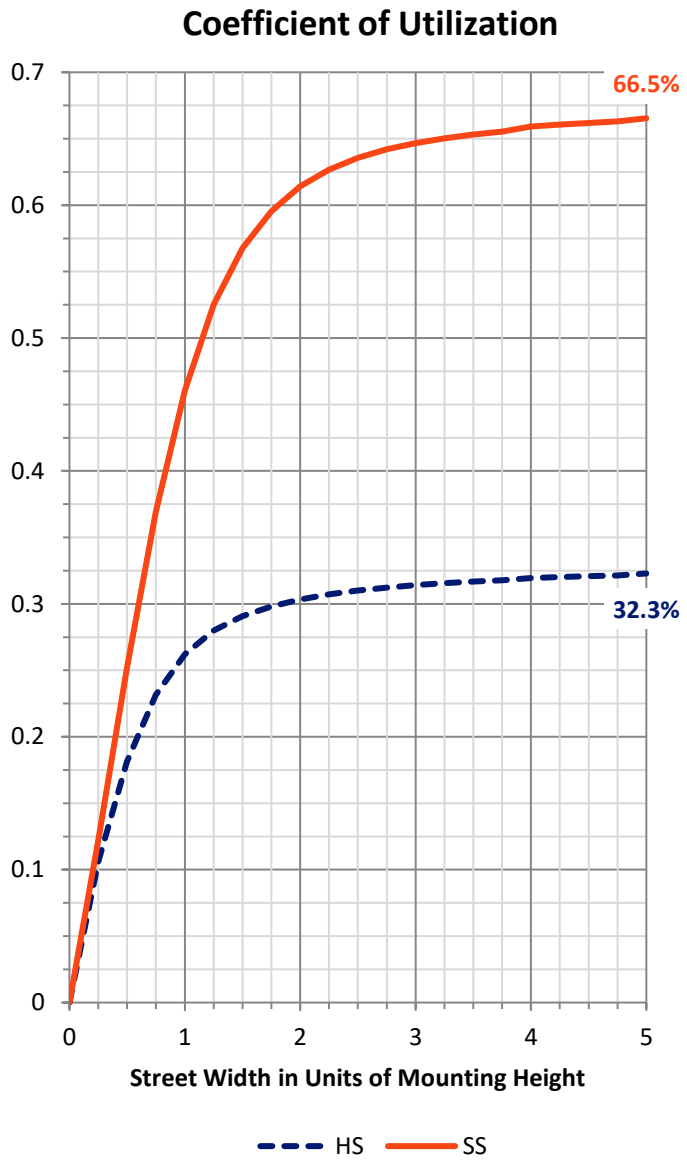
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.7	0.0	477.7
	% Fixture	32.9	0.0	32.9
Street Side	Lumens	974.1	0.0	974.1
	% Fixture	67.1	0.0	67.1
Total	Lumens	1451.8	0.0	1451.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	1.8
10°-20°	79.2	5.5
20°-30°	141.3	9.7
30°-40°	199.8	13.8
40°-50°	249.5	17.2
50°-60°	274.6	18.9
60°-70°	264.7	18.2
70°-80°	169.1	11.7
80°-90°	48.0	3.3
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°	1451.8	100.0
0°-180°	1451.8	100.0



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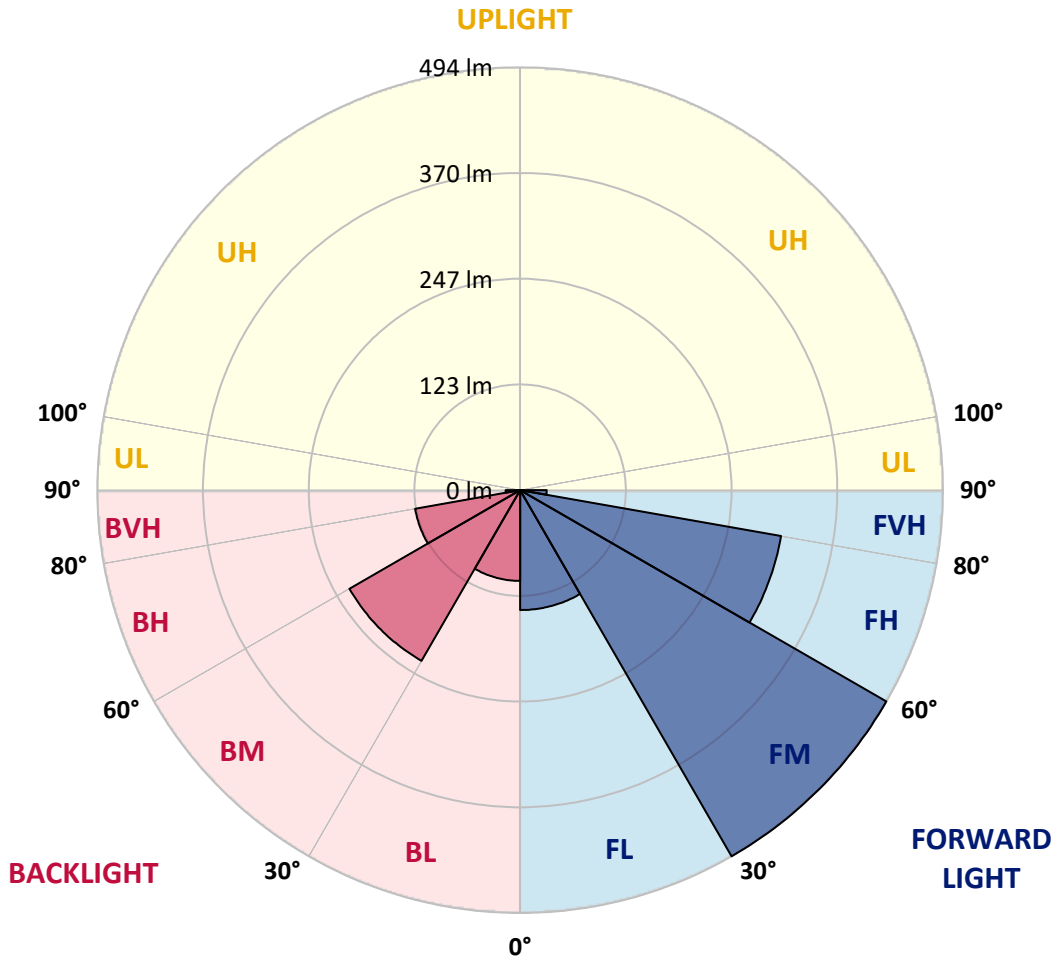
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	140.0	9.6			
FM	(30°-60°)	493.7	34.0			
FH	(60°-80°)	309.3	21.3			G0/660
FVH	(80°-90°)	31.0	2.1			G1/100
BL	(0°-30°)	106.0	7.3	B0/110		
BM	(30°-60°)	230.2	15.9	B1/1000		
BH	(60°-80°)	124.6	8.6	B1/500		G1/500
BVH	(80°-90°)	16.9	1.2			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 III Medium



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REPORT NUMBER: P869197
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	*269.5*	269.5
2.5°	264.8	264.8	264.8	264.8	264.8	267.1	267.1	267.1	267.1	*267.1*	269.5
5°	262.4	262.4	264.8	264.8	264.8	264.8	264.8	264.8	267.1	*267.1*	269.5
7.5°	267.1	267.1	267.1	267.1	267.1	264.8	264.8	264.8	267.1	*267.1*	269.5
10°	281.2	281.2	281.2	278.8	274.2	269.5	267.1	267.1	267.1	*269.5*	269.5
12.5°	302.3	304.6	302.3	295.2	288.2	278.8	274.2	271.8	271.8	*271.8*	274.2
15°	332.7	330.4	325.7	318.7	307.0	292.9	283.5	278.8	276.5	*276.5*	278.8
17.5°	358.5	360.8	356.2	344.4	328.0	309.3	295.2	285.9	283.5	*283.5*	283.5
20°	384.3	384.3	379.6	370.2	351.5	328.0	309.3	295.2	288.2	*290.6*	290.6
22.5°	398.3	398.3	398.3	389.0	374.9	353.8	328.0	307.0	297.6	*297.6*	297.6
25°	407.7	407.7	410.1	407.7	398.3	374.9	346.8	321.0	307.0	*307.0*	307.0
27.5°	410.1	412.4	414.7	414.7	407.7	393.7	367.9	335.1	316.3	*316.3*	316.3
30°	412.4	414.7	421.8	424.1	419.4	407.7	384.3	349.1	328.0	*325.7*	325.7
32.5°	417.1	419.4	424.1	431.1	431.1	421.8	398.3	365.5	342.1	*342.1*	337.4
35°	419.4	421.8	428.8	433.5	438.2	433.5	412.4	381.9	363.2	*360.8*	351.5
37.5°	424.1	426.5	431.1	440.5	445.2	442.9	428.8	400.7	377.3	*372.6*	367.9
40°	424.1	428.8	438.2	447.5	449.9	449.9	445.2	417.1	389.0	*384.3*	374.9
42.5°	426.5	433.5	445.2	454.6	449.9	452.2	454.6	433.5	407.7	*403.0*	391.3
45°	424.1	424.1	447.5	452.2	447.5	456.9	466.3	456.9	435.8	*431.1*	412.4
47.5°	405.4	405.4	419.4	435.8	440.5	456.9	480.4	482.7	461.6	*459.3*	431.1
50°	377.3	377.3	398.3	419.4	431.1	456.9	492.1	508.5	492.1	*487.4*	456.9
52.5°	323.4	325.7	358.5	396.0	414.7	452.2	503.8	534.2	517.8	*515.5*	480.4
55°	290.6	295.2	318.7	363.2	398.3	440.5	508.5	557.7	548.3	*546.0*	508.5
57.5°	255.4	262.4	290.6	314.0	370.2	421.8	510.8	581.1	581.1	*578.8*	541.3
60°	224.9	229.6	248.4	278.8	339.8	398.3	499.1	595.2	609.2	*609.2*	576.4
62.5°	192.1	194.5	213.2	243.7	297.6	370.2	480.4	604.5	637.3	*639.7*	604.5
65°	164.0	166.4	182.8	208.5	262.4	344.4	454.6	599.9	658.4	*660.8*	620.9
67.5°	*135.9*	*138.2*	*154.6*	*178.1*	*227.3*	*309.3*	*421.8*	*578.8*	*665.5*	*667.8*	*609.2*
70°	103.1	103.1	124.2	147.6	187.5	262.4	381.9	541.3	646.7	*644.4*	548.3
72.5°	77.3	79.7	100.8	119.5	152.3	208.5	328.0	487.4	592.8	*585.8*	475.7
75°	63.3	65.6	79.7	100.8	121.8	168.7	255.4	407.7	499.1	*478.0*	384.3
77.5°	53.9	53.9	60.9	79.7	100.8	128.9	189.8	318.7	377.3	*360.8*	283.5
80°	46.9	46.9	49.2	65.6	77.3	91.4	126.5	210.9	253.1	*248.4*	192.1
82.5°	42.2	39.8	39.8	51.5	60.9	68.0	84.4	128.9	164.0	*159.3*	133.6
85°	28.1	28.1	30.5	37.5	42.2	46.9	58.6	75.0	107.8	*100.8*	68.0
87.5°	16.4	16.4	16.4	21.1	23.4	25.8	30.5	35.1	39.8	*39.8*	28.1
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: P869197
CATALOG NUMBER: EMM2-HTN-SA3A-AMB-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5	269.5
2.5°	269.5	269.5	269.5	269.5	271.8	271.8	269.5	269.5	269.5	271.8	271.8
5°	269.5	269.5	269.5	269.5	269.5	269.5	269.5	267.1	267.1	269.5	267.1
7.5°	269.5	269.5	271.8	271.8	269.5	264.8	262.4	260.1	260.1	260.1	260.1
10°	271.8	271.8	271.8	269.5	267.1	262.4	255.4	253.1	250.7	250.7	253.1
12.5°	274.2	274.2	274.2	269.5	262.4	255.4	250.7	246.0	243.7	243.7	243.7
15°	278.8	278.8	276.5	269.5	260.1	250.7	243.7	239.0	236.7	236.7	236.7
17.5°	285.9	285.9	281.2	269.5	255.4	246.0	241.3	236.7	234.3	232.0	234.3
20°	292.9	292.9	283.5	267.1	253.1	243.7	236.7	232.0	229.6	229.6	229.6
22.5°	299.9	299.9	285.9	267.1	250.7	241.3	234.3	229.6	224.9	224.9	224.9
25°	309.3	304.6	288.2	264.8	248.4	236.7	229.6	224.9	220.3	217.9	217.9
27.5°	314.0	311.6	288.2	262.4	243.7	232.0	224.9	215.6	208.5	208.5	206.2
30°	323.4	316.3	288.2	257.7	236.7	224.9	215.6	206.2	201.5	199.2	199.2
32.5°	335.1	325.7	290.6	255.4	232.0	217.9	206.2	199.2	192.1	189.8	189.8
35°	344.4	332.7	292.9	253.1	224.9	208.5	196.8	192.1	182.8	180.4	178.1
37.5°	358.5	342.1	290.6	246.0	217.9	199.2	189.8	180.4	173.4	171.1	168.7
40°	363.2	344.4	288.2	241.3	213.2	189.8	178.1	168.7	166.4	164.0	164.0
42.5°	374.9	351.5	285.9	236.7	203.9	180.4	166.4	159.3	157.0	152.3	152.3
45°	391.3	363.2	288.2	234.3	196.8	171.1	154.6	145.3	142.9	138.2	138.2
47.5°	410.1	374.9	290.6	229.6	189.8	159.3	140.6	131.2	126.5	121.8	121.8
50°	428.8	389.0	292.9	227.3	180.4	147.6	126.5	114.8	110.1	105.4	105.4
52.5°	449.9	403.0	297.6	222.6	168.7	135.9	112.5	103.1	96.1	93.7	93.7
55°	475.7	417.1	299.9	217.9	157.0	121.8	100.8	91.4	86.7	84.4	84.4
57.5°	496.8	428.8	299.9	210.9	145.3	110.1	91.4	84.4	79.7	79.7	79.7
60°	520.2	435.8	299.9	203.9	135.9	98.4	84.4	77.3	75.0	77.3	77.3
62.5°	536.6	435.8	297.6	196.8	124.2	89.0	77.3	72.6	70.3	75.0	75.0
65°	536.6	426.5	292.9	182.8	110.1	82.0	70.3	65.6	65.6	68.0	68.0
67.5°	*515.5*	*417.1*	*283.5*	*164.0*	*96.1*	*75.0*	*63.3*	*60.9*	*60.9*	*63.3*	*60.9*
70°	468.6	386.6	255.4	133.6	84.4	65.6	58.6	56.2	56.2	56.2	56.2
72.5°	417.1	344.4	203.9	110.1	72.6	58.6	51.5	51.5	49.2	49.2	49.2
75°	332.7	278.8	152.3	84.4	58.6	51.5	46.9	44.5	44.5	46.9	46.9
77.5°	255.4	199.2	107.8	65.6	46.9	42.2	42.2	39.8	42.2	49.2	46.9
80°	178.1	138.2	77.3	46.9	37.5	37.5	37.5	35.1	49.2	58.6	56.2
82.5°	117.2	96.1	56.2	37.5	30.5	30.5	30.5	37.5	51.5	53.9	53.9
85°	56.2	56.2	37.5	23.4	23.4	21.1	23.4	39.8	37.5	32.8	30.5
87.5°	23.4	21.1	16.4	9.4	9.4	9.4	11.7	25.8	14.1	14.1	11.7
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

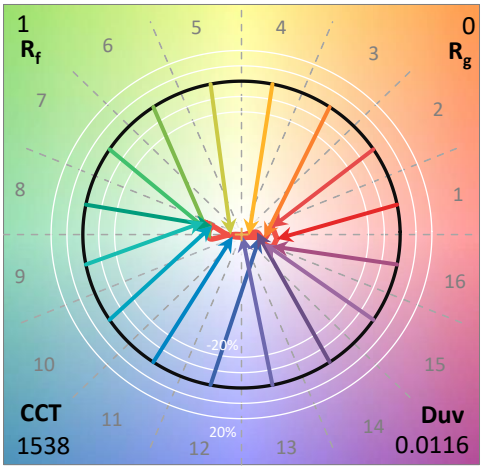
Test Information

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

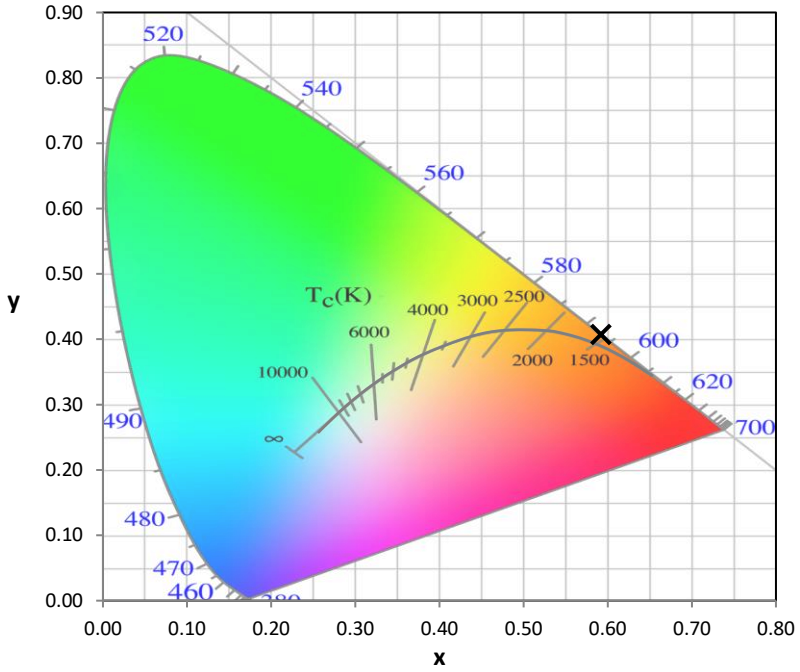
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-1

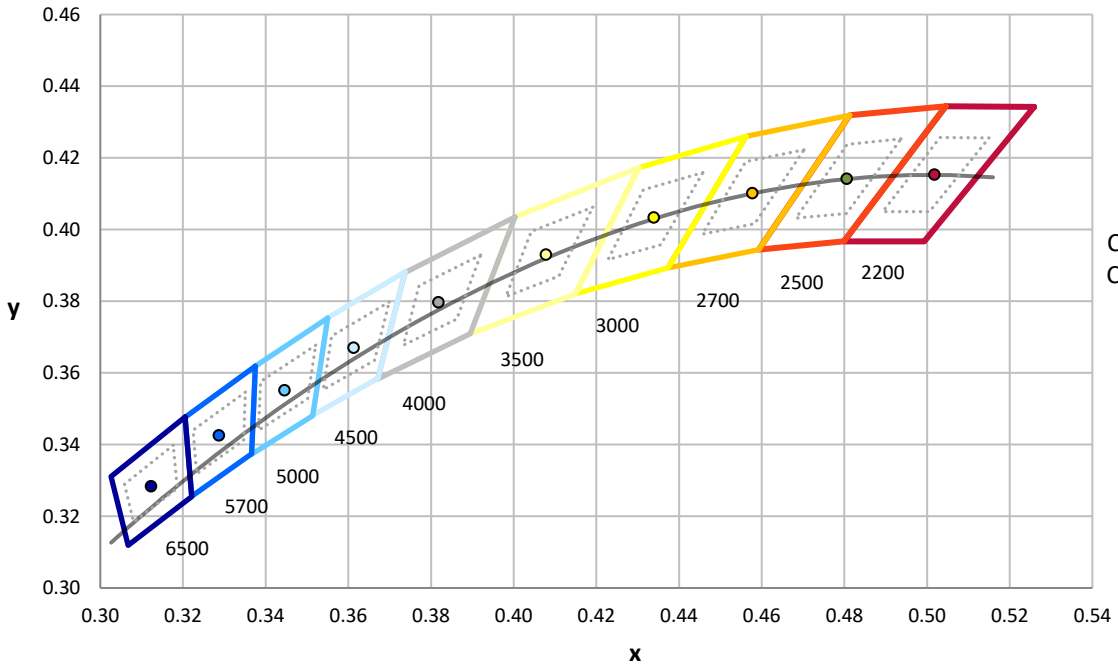
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

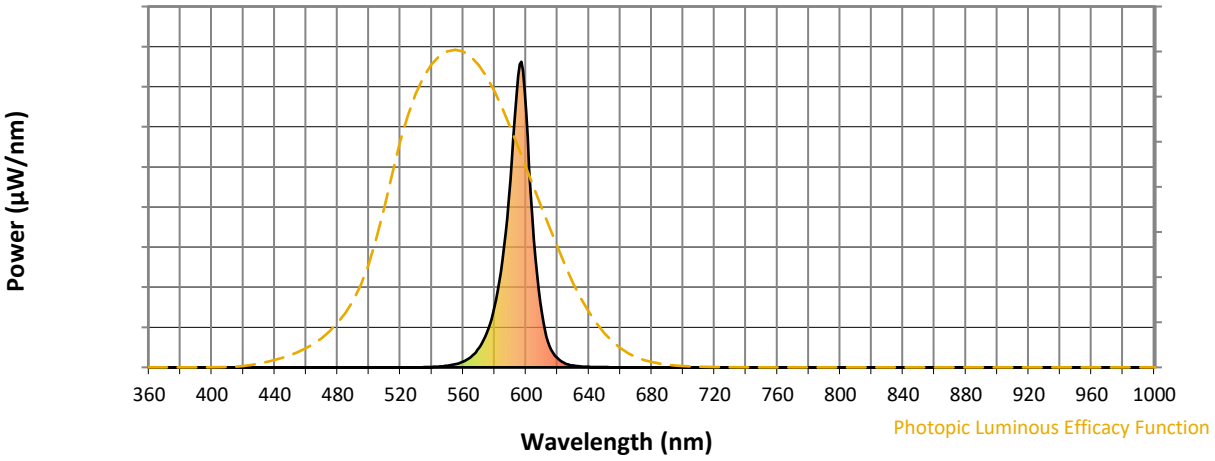


CCT = 1538K
CIE x = 0.5918
CIE y = 0.4076
Duv = 0.0116

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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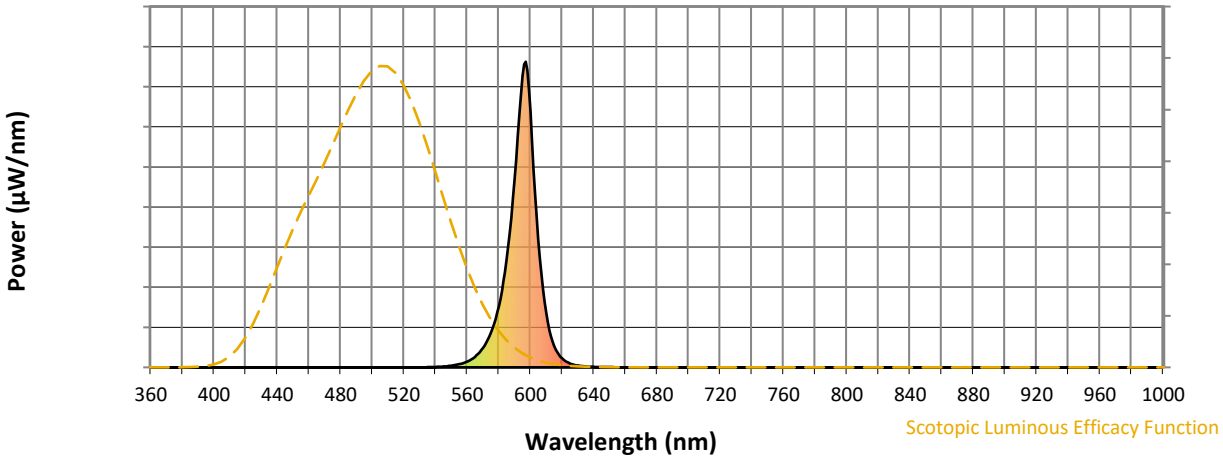
Scotopic Flux vs. Wavelength



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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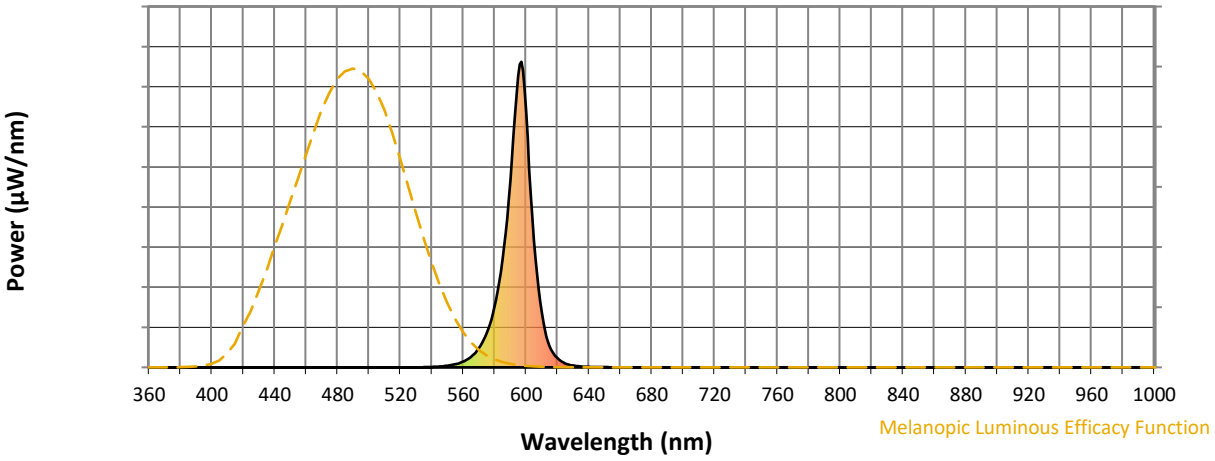
Melanopic Flux vs. Wavelength



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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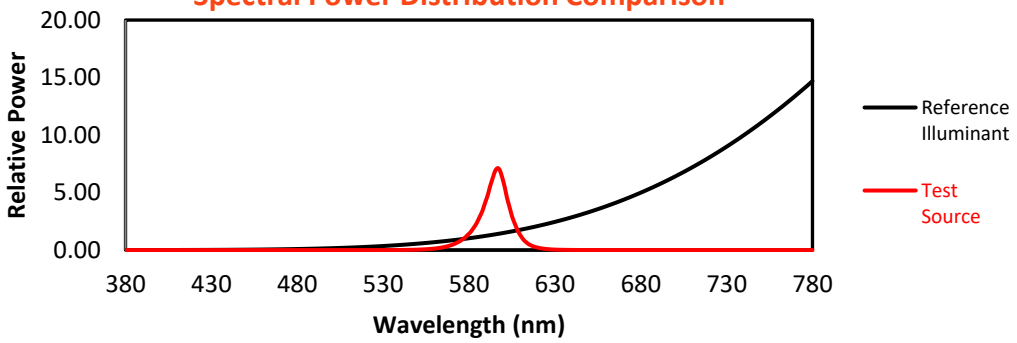
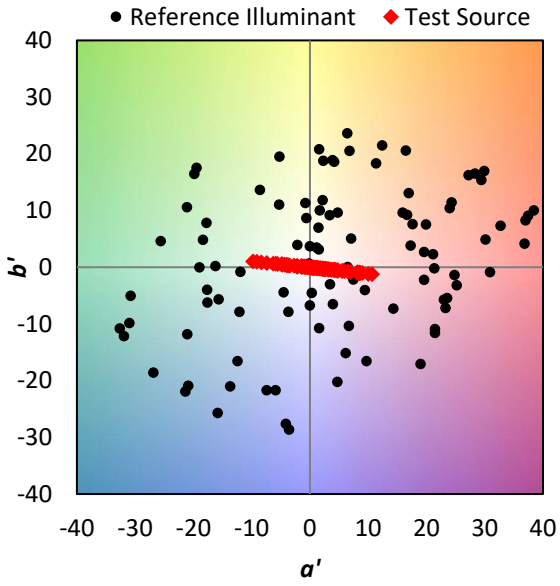
Summary

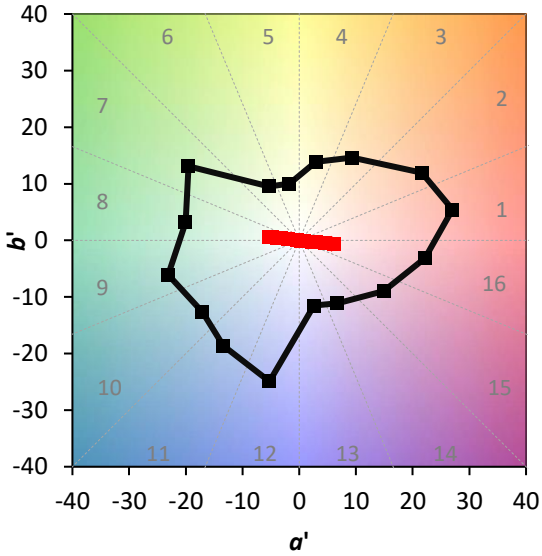
R_f = 1.1
R_g = 0
CIE R_a = -21.8
R_9 = -386.6

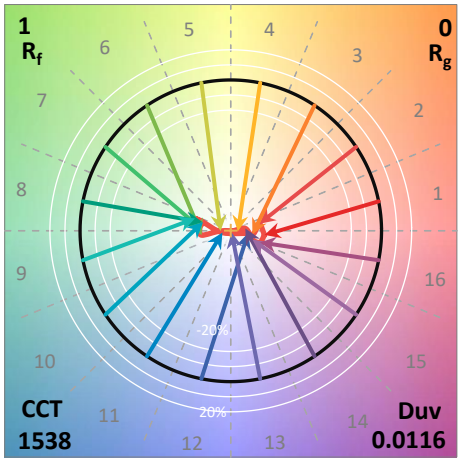
Spectral Power Distribution Comparison

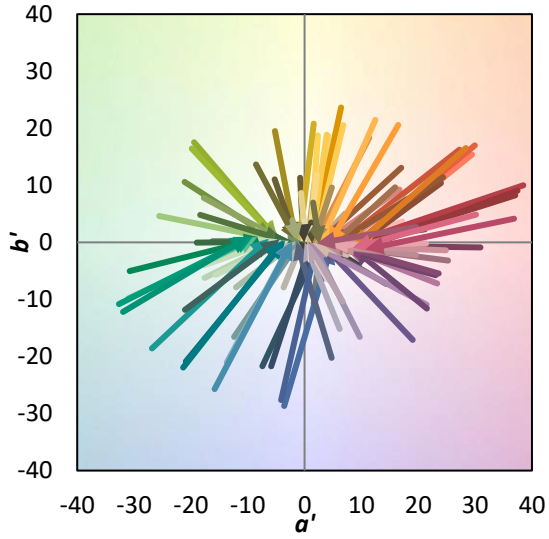


Color Vector Graphics









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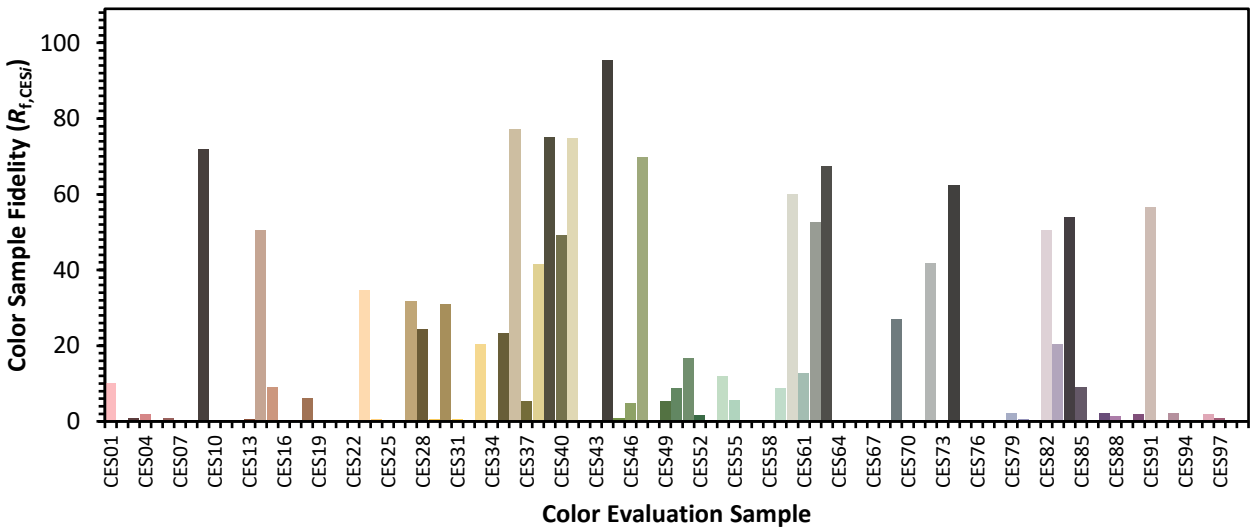
Individual Sample Fidelity Index ($R_{f,i}$)

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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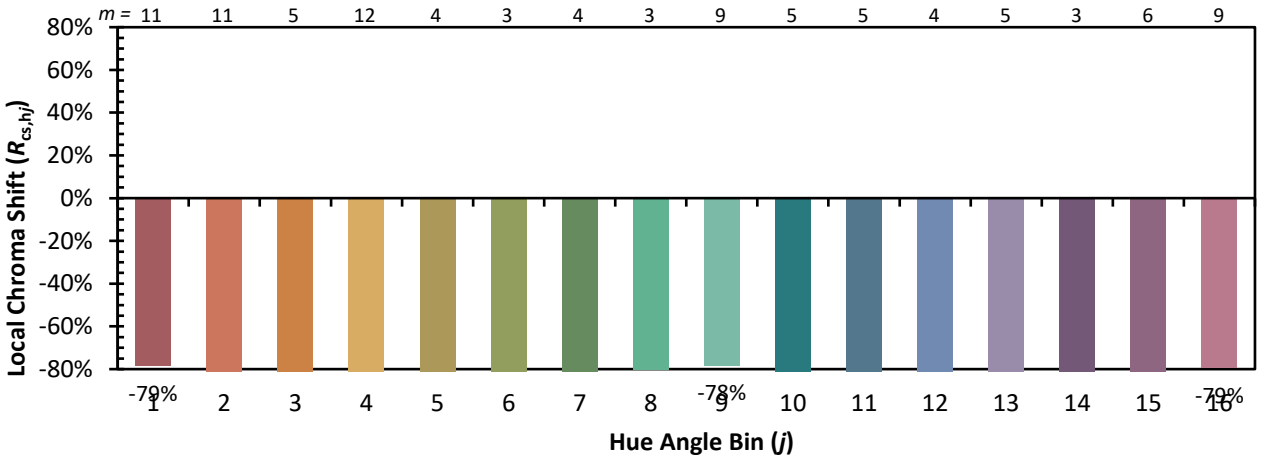
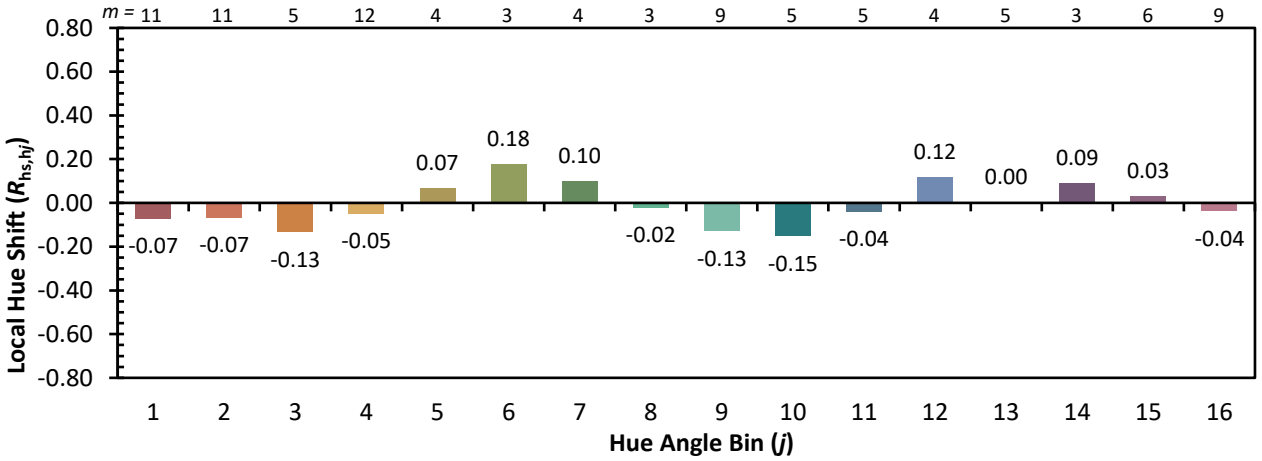
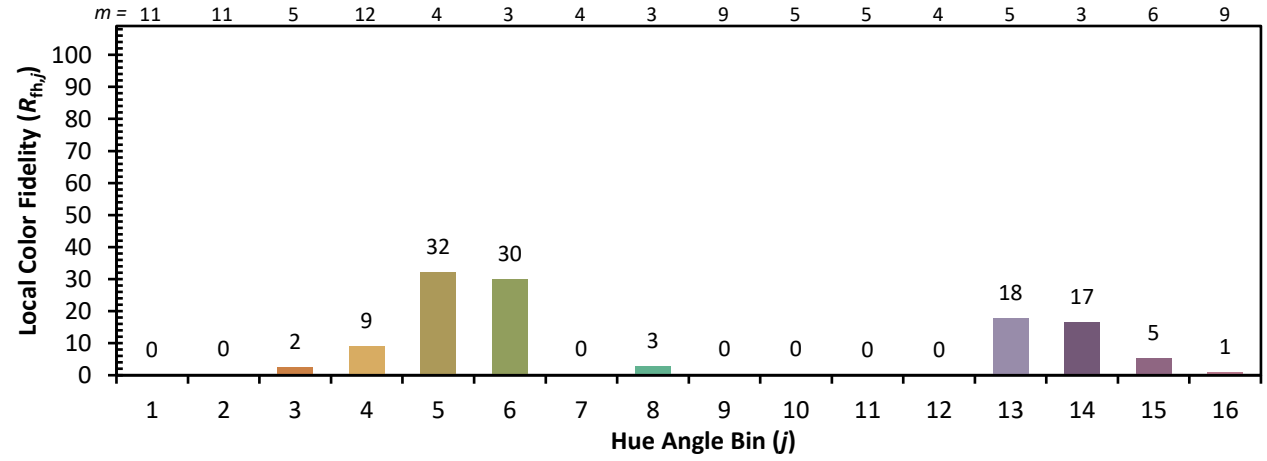
Color Rendition by Hue-Angle Bin







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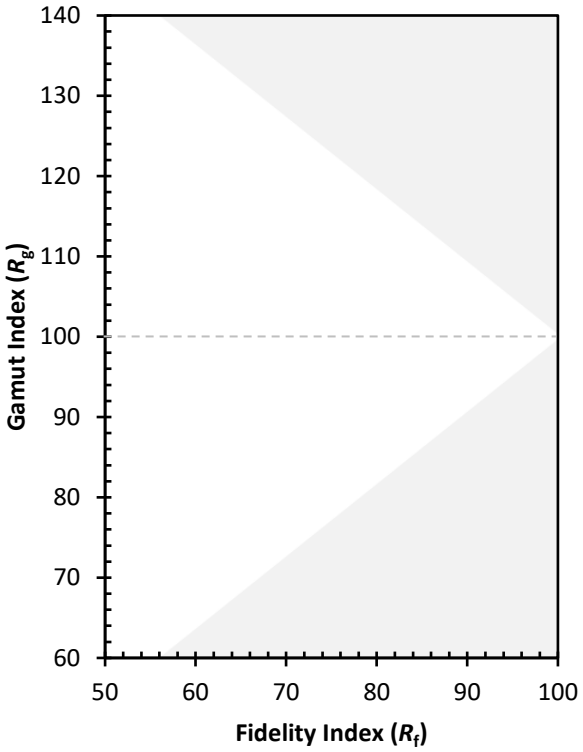
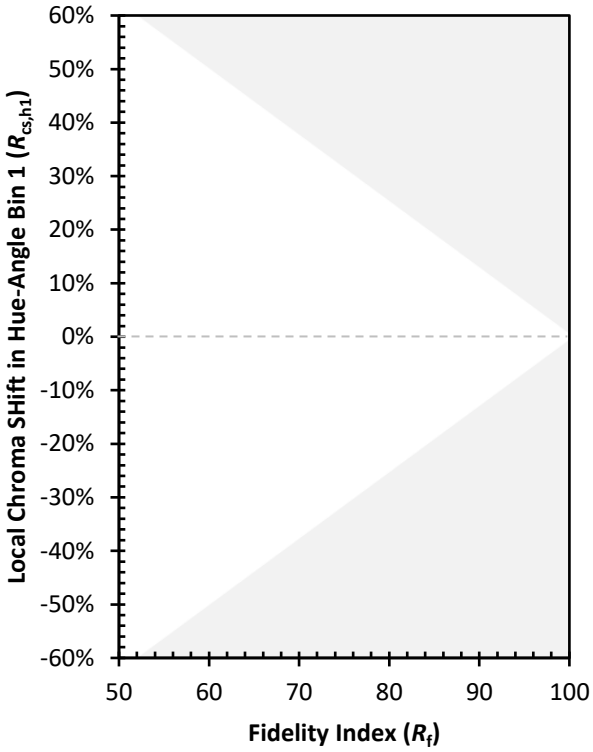
Measure Comparisons





(END OF REPORT)