

Signify Classified - Internal
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: STREETWORKS

Report Number: P868290

Luminaire Tested: **MEM2-HSN-SA-30-AMB-U-T4W**

Issue Date: 08/22/2024



Test Information

Test Method: LM-79-08
Report Number: P868290
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/22/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM2-HSN-SA-30-AMB-U-T4W
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 30W OCRI 1540K
FITXURE w/ TYPE IV WIDE DISTRIBUTION OPTIC
Light Source: (20) 1540K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

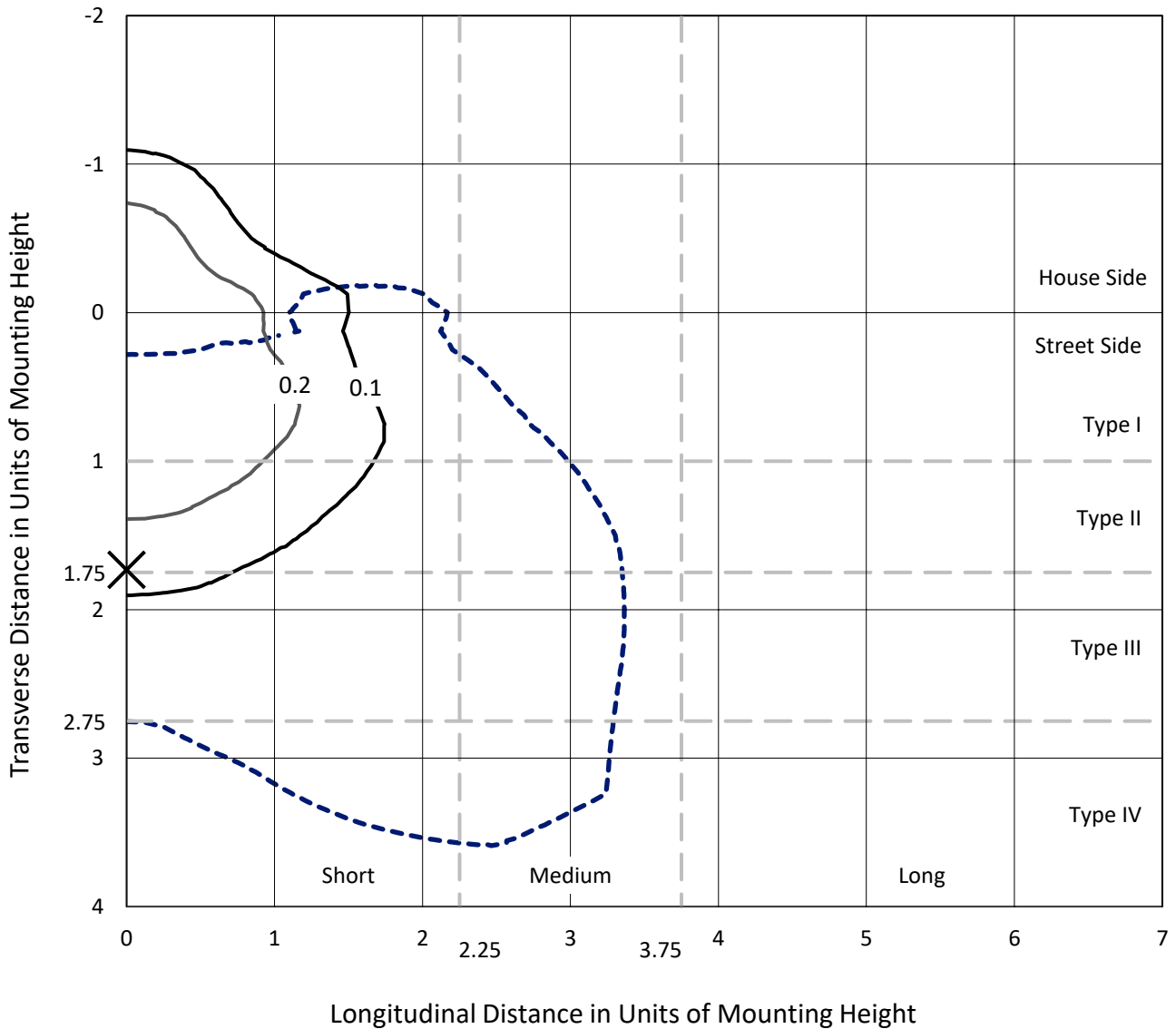
Lumens per Lamp: N/A
Luminaire Lumens: 1054.6 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 30
Input Voltage (V): 120
Input Current (A_{in}): 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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Iso-Footcandle Lines of Horizontal Illumination

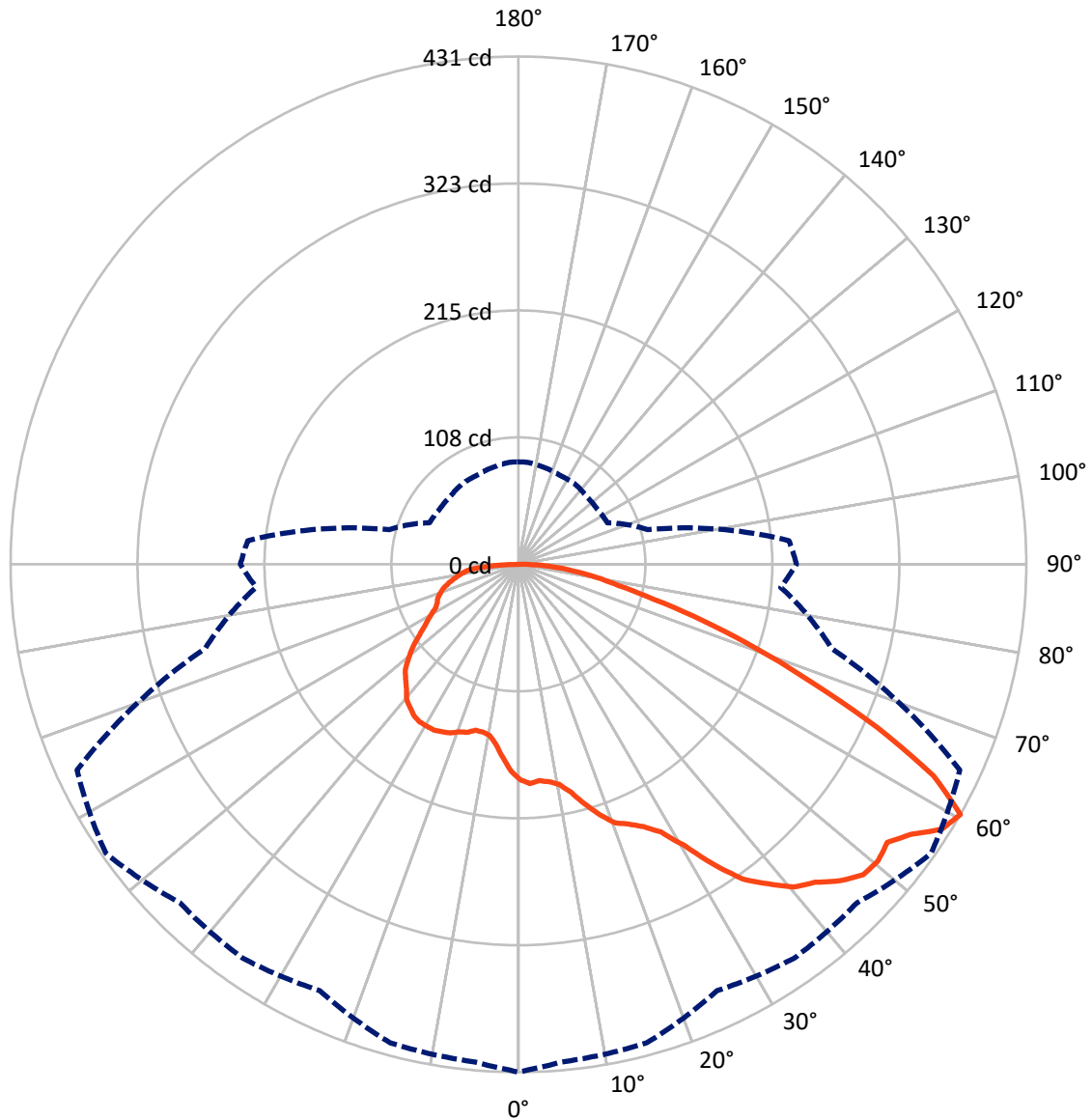
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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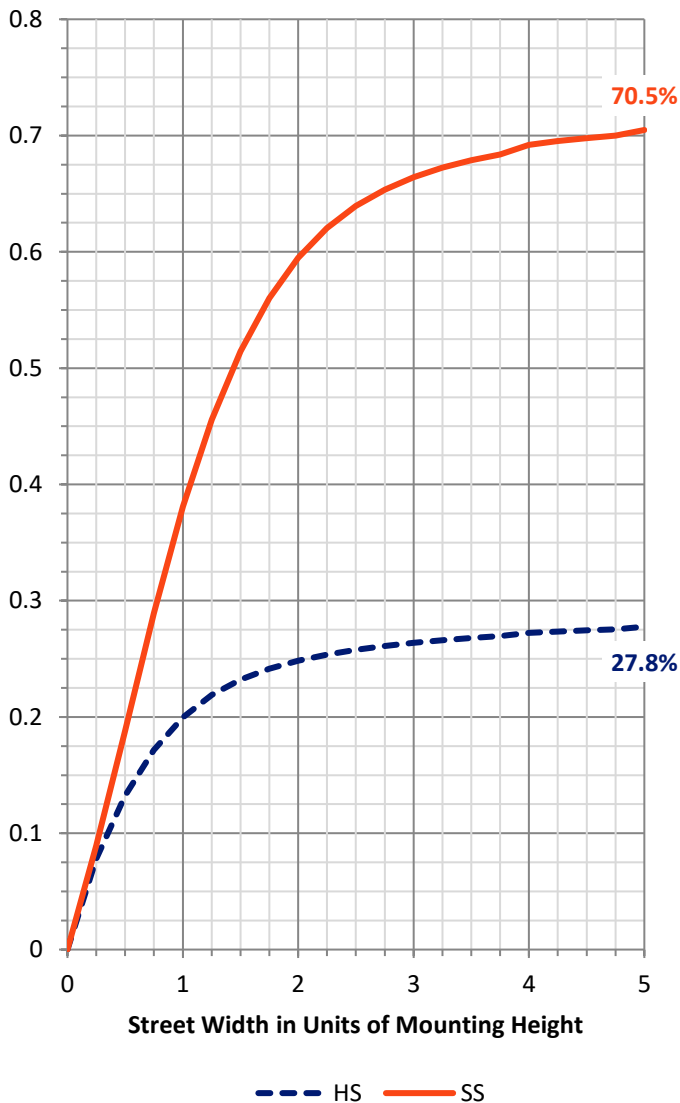
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.3	0.0	300.3
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	754.3	0.0	754.3
	% Fixture	71.5	0.0	71.5
Total	Lumens	1054.6	0.0	1054.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	1.6
10°-20°	49.4	4.7
20°-30°	85.8	8.1
30°-40°	129.3	12.3
40°-50°	173.9	16.5
50°-60°	213.5	20.2
60°-70°	213.9	20.3
70°-80°	133.0	12.6
80°-90°	39.0	3.7
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°	1054.6	100.0
0°-180°	1054.6	100.0

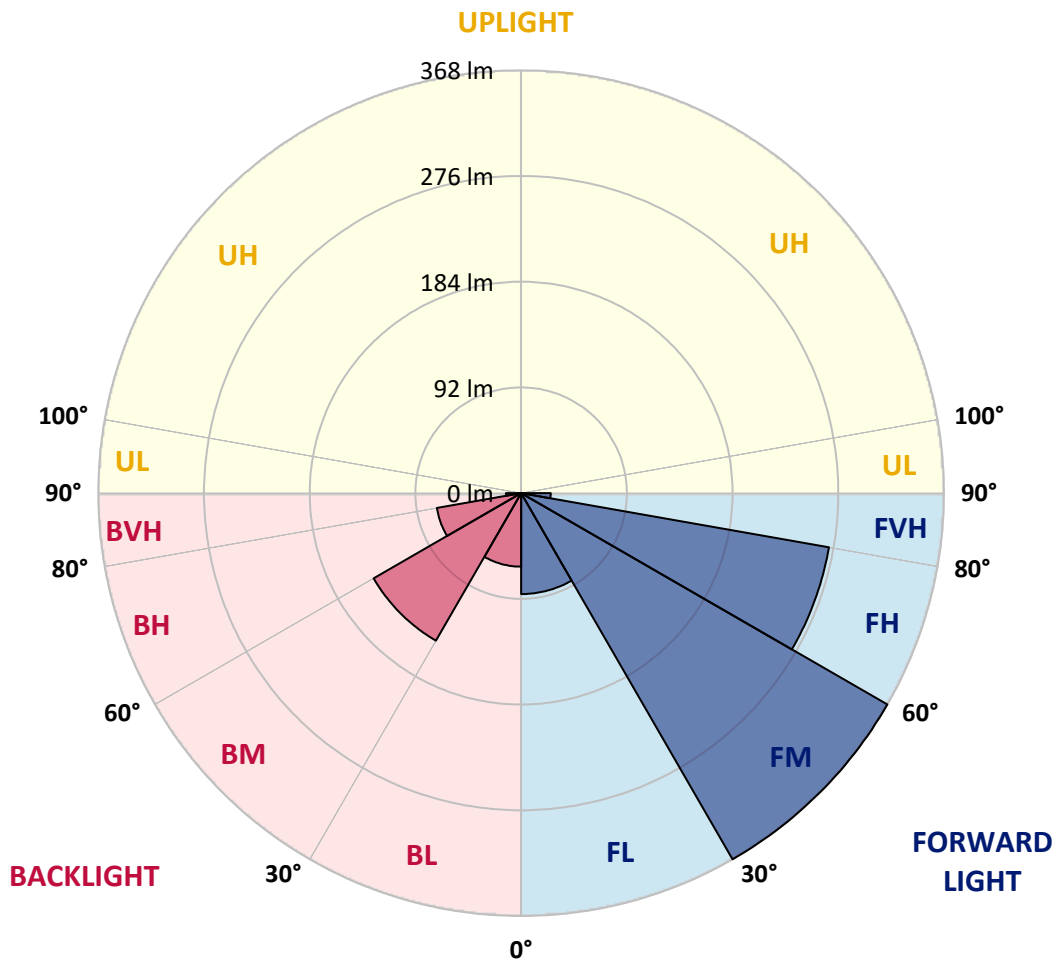


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.9	8.3			
FM	(30°-60°)	368.3	34.9			
FH	(60°-80°)	272.3	25.8			G0/660
FVH	(80°-90°)	25.7	2.4			G1/100
BL	(0°-30°)	64.0	6.1	B0/110		
BM	(30°-60°)	148.4	14.1	B0/220		
BH	(60°-80°)	74.6	7.1	B0/110		G0/110
BVH	(80°-90°)	13.3	1.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7
2.5°	186.2	186.2	186.2	186.2	186.2	186.2	184.4	184.4	184.4	182.7	182.7
5°	184.4	184.4	184.4	186.2	186.2	186.2	186.2	184.4	184.4	182.7	182.7
7.5°	186.2	186.2	186.2	186.2	186.2	184.4	184.4	184.4	182.7	182.7	180.9
10°	189.8	189.8	189.8	189.8	188.0	186.2	184.4	184.4	182.7	180.9	180.9
12.5°	198.6	198.6	198.6	196.8	195.1	191.5	188.0	184.4	182.7	180.9	179.1
15°	211.0	211.0	211.0	209.3	203.9	198.6	191.5	186.2	182.7	180.9	179.1
17.5°	223.4	223.4	223.4	221.7	216.4	209.3	198.6	189.8	182.7	180.9	179.1
20°	234.1	234.1	234.1	232.3	228.8	219.9	209.3	196.8	186.2	180.9	179.1
22.5°	239.4	239.4	239.4	241.2	235.9	230.5	219.9	203.9	189.8	182.7	180.9
25°	246.5	246.5	246.5	246.5	243.0	239.4	230.5	212.8	195.1	186.2	182.7
27.5°	257.1	257.1	257.1	255.4	250.0	246.5	239.4	225.2	203.9	188.0	184.4
30°	276.6	274.9	276.6	271.3	262.5	255.4	250.0	237.6	212.8	191.5	186.2
32.5°	303.2	303.2	303.2	297.9	280.2	267.8	262.5	253.6	225.2	198.6	189.8
35°	328.1	329.8	329.8	322.8	303.2	285.5	276.6	269.6	239.4	203.9	191.5
37.5°	344.0	344.0	344.0	340.5	321.0	306.8	292.6	282.0	248.3	205.7	191.5
40°	360.0	360.0	358.2	352.9	331.6	321.0	305.0	296.2	262.5	211.0	193.3
42.5°	368.9	368.9	365.3	360.0	340.5	333.4	321.0	308.6	278.4	218.1	196.8
45°	383.0	383.0	376.0	368.9	351.1	347.6	336.9	326.3	294.4	227.0	202.2
47.5°	393.7	391.9	383.0	377.7	368.9	358.2	352.9	344.0	312.1	235.9	205.7
50°	395.5	393.7	390.1	386.6	377.7	370.6	365.3	361.8	331.6	244.7	211.0
52.5°	391.9	391.9	393.7	395.5	383.0	383.0	376.0	381.3	352.9	255.4	216.4
55°	404.3	404.3	406.1	406.1	390.1	395.5	390.1	399.0	374.2	264.2	221.7
57.5°	423.8	422.1	420.3	418.5	400.8	407.9	400.8	415.0	397.2	271.3	225.2
60°	430.9	429.2	423.8	420.3	399.0	407.9	406.1	427.4	413.2	274.9	223.4
62.5°	395.5	397.2	393.7	400.8	383.0	395.5	399.0	420.3	420.3	274.9	219.9
65°	335.2	340.5	345.8	360.0	368.9	383.0	391.9	404.3	406.1	266.0	211.0
67.5°	269.6	269.6	276.6	310.3	351.1	374.2	383.0	390.1	377.7	248.3	191.5
70°	214.6	212.8	219.9	262.5	317.4	351.1	360.0	365.3	328.1	216.4	161.4
72.5°	163.2	161.4	170.2	212.8	278.4	322.8	319.2	312.1	267.8	180.9	133.0
75°	118.8	118.8	124.1	164.9	219.9	273.1	271.3	248.3	207.5	141.9	104.6
77.5°	86.9	86.9	92.2	120.6	159.6	203.9	218.1	179.1	149.0	106.4	78.0
80°	67.4	67.4	69.2	88.7	113.5	140.1	159.6	122.4	95.8	74.5	58.5
82.5°	47.9	49.7	51.4	67.4	79.8	92.2	102.9	78.0	60.3	51.4	42.6
85°	31.9	31.9	33.7	47.9	56.7	58.5	65.6	49.7	35.5	35.5	23.1
87.5°	16.0	17.7	17.7	28.4	33.7	31.9	33.7	26.6	16.0	16.0	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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CATALOG NUMBER: MEM2-HSN-SA-30-AMB-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7	182.7
2.5°	182.7	182.7	180.9	179.1	179.1	177.3	177.3	177.3	175.6	175.6	175.6
5°	180.9	180.9	177.3	175.6	173.8	170.2	168.5	164.9	164.9	164.9	164.9
7.5°	180.9	179.1	175.6	170.2	166.7	161.4	157.8	156.1	154.3	154.3	154.3
10°	179.1	177.3	172.0	164.9	159.6	154.3	150.7	149.0	147.2	147.2	147.2
12.5°	177.3	175.6	168.5	161.4	154.3	149.0	145.4	145.4	145.4	145.4	145.4
15°	177.3	175.6	166.7	156.1	149.0	145.4	143.6	143.6	145.4	145.4	145.4
17.5°	177.3	173.8	163.2	152.5	145.4	141.9	141.9	143.6	145.4	147.2	149.0
20°	177.3	173.8	161.4	147.2	141.9	140.1	141.9	145.4	147.2	150.7	150.7
22.5°	179.1	173.8	157.8	143.6	138.3	138.3	143.6	147.2	150.7	152.5	154.3
25°	180.9	175.6	156.1	140.1	134.8	136.5	141.9	147.2	150.7	156.1	156.1
27.5°	182.7	177.3	156.1	138.3	131.2	134.8	141.9	147.2	152.5	156.1	157.8
30°	184.4	179.1	156.1	134.8	129.5	131.2	138.3	147.2	150.7	156.1	157.8
32.5°	188.0	180.9	154.3	131.2	125.9	127.7	136.5	145.4	150.7	156.1	157.8
35°	188.0	182.7	154.3	129.5	120.6	124.1	133.0	143.6	149.0	154.3	156.1
37.5°	191.5	188.0	156.1	125.9	117.0	118.8	127.7	141.9	147.2	150.7	152.5
40°	195.1	193.3	156.1	122.4	113.5	115.3	124.1	138.3	143.6	147.2	149.0
42.5°	202.2	200.4	157.8	118.8	108.2	109.9	120.6	134.8	140.1	141.9	141.9
45°	207.5	207.5	157.8	115.3	104.6	108.2	115.3	127.7	134.8	136.5	136.5
47.5°	212.8	212.8	154.3	109.9	101.1	104.6	111.7	122.4	127.7	129.5	131.2
50°	219.9	219.9	150.7	104.6	97.5	101.1	106.4	113.5	118.8	120.6	122.4
52.5°	227.0	227.0	143.6	99.3	94.0	97.5	101.1	106.4	109.9	111.7	113.5
55°	234.1	232.3	136.5	94.0	90.4	94.0	94.0	97.5	101.1	102.9	102.9
57.5°	235.9	234.1	124.1	88.7	86.9	88.7	88.7	90.4	92.2	94.0	94.0
60°	235.9	230.5	113.5	83.3	81.6	81.6	83.3	83.3	85.1	86.9	86.9
62.5°	230.5	219.9	102.9	78.0	76.3	76.3	78.0	78.0	79.8	79.8	79.8
65°	216.4	195.1	92.2	74.5	70.9	70.9	72.7	72.7	74.5	76.3	76.3
67.5°	191.5	163.2	83.3	67.4	65.6	65.6	67.4	69.2	70.9	74.5	74.5
70°	159.6	127.7	72.7	62.1	60.3	60.3	63.8	63.8	67.4	70.9	70.9
72.5°	125.9	99.3	62.1	55.0	55.0	55.0	58.5	60.3	63.8	67.4	67.4
75°	97.5	76.3	55.0	47.9	49.7	49.7	55.0	56.7	60.3	65.6	62.1
77.5°	74.5	60.3	46.1	40.8	42.6	46.1	49.7	53.2	55.0	58.5	56.7
80°	53.2	46.1	37.2	33.7	35.5	39.0	44.3	47.9	49.7	51.4	51.4
82.5°	39.0	33.7	28.4	26.6	28.4	33.7	37.2	42.6	42.6	46.1	46.1
85°	21.3	21.3	19.5	17.7	21.3	24.8	26.6	33.7	35.5	39.0	39.0
87.5°	7.1	7.1	7.1	8.9	10.6	12.4	14.2	19.5	23.1	23.1	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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
 R_f: 1.1
 R_g: 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

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CIE 1931 Chromaticity Diagram



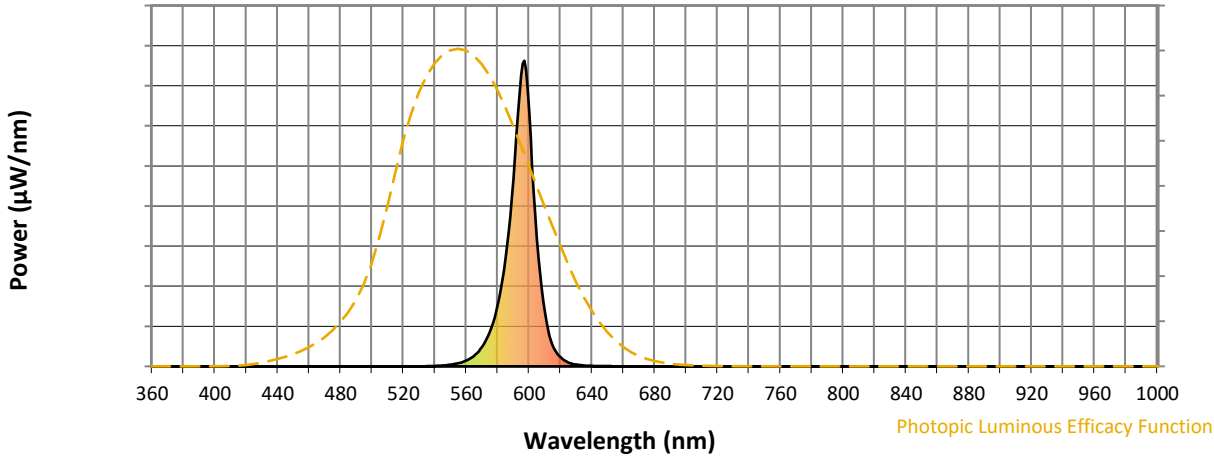
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

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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			

REPORT NUMBER: SP1-2407-157-1

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	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

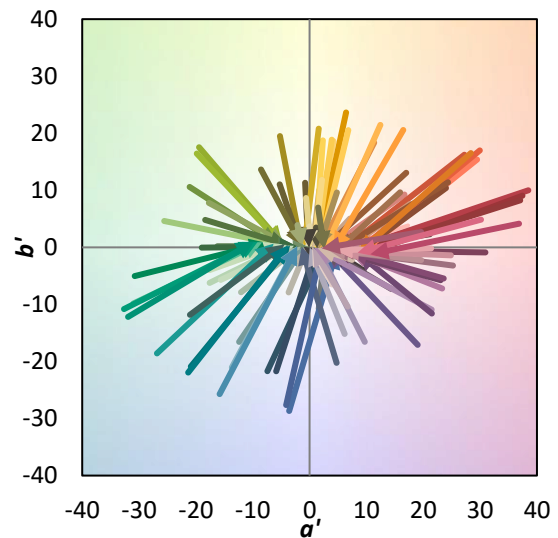
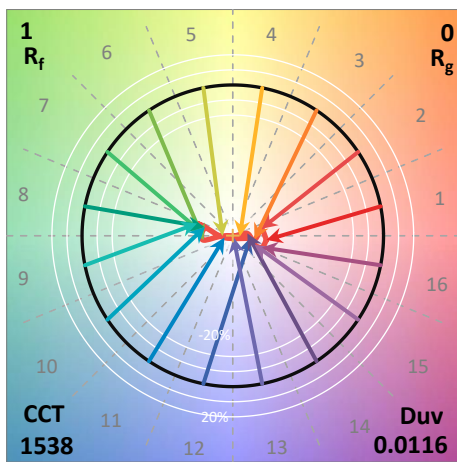
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	30	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	13	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	6	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			

Summary

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



Color Vector Graphics

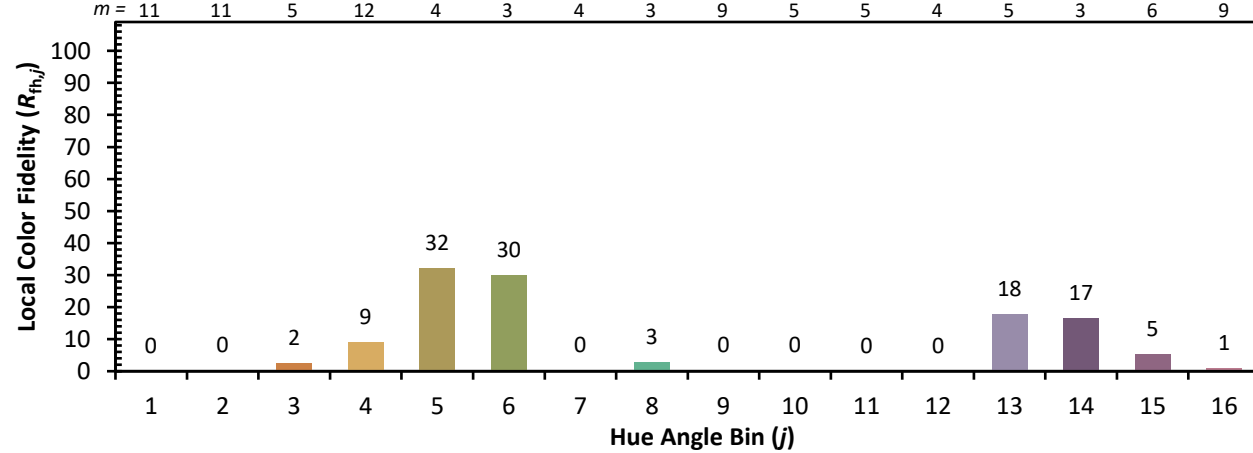
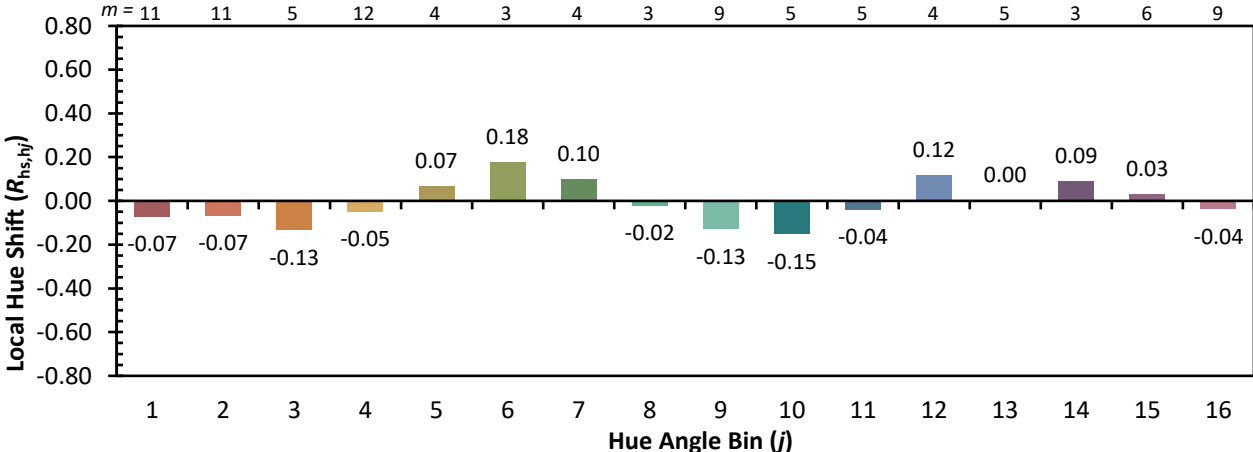
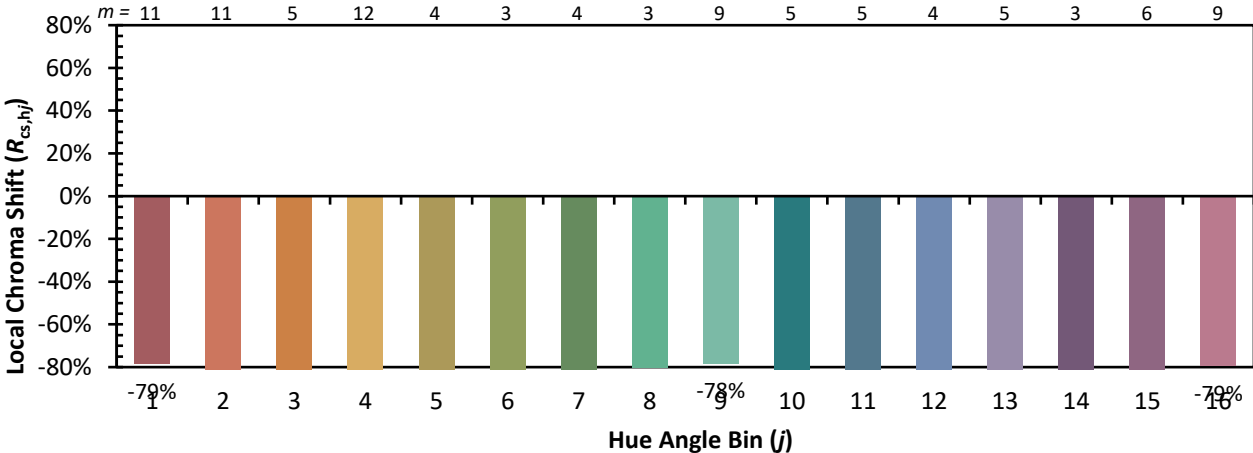


Individual Sample Fidelity Index ($R_{f,i}$)

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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)