Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: INVUE

Report Number: P1459761

Luminaire Tested: ABB-CX-AMB-X-U-A-GM-CBP

Issue Date: 5/26/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1459761
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2509-539-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	5/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	INVUE
Catalog Number:	ABB-CX-AMB-X-U-A-GM-CBP
Description:	ARBOR OUTDOOR ARCHITECTURAL BOLLARD LUMINAIRE
	ASYMMETRIC OPTIC, GRAPHITE METALLIC PAINTED FINISH
Light Source:	1571K CCT, 0 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	117.6 lumens
Efficiency:	N/A
Efficacy:	13.2 lumens/watt
Luminous Opening:	Circular (Dia: 0.4' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G0

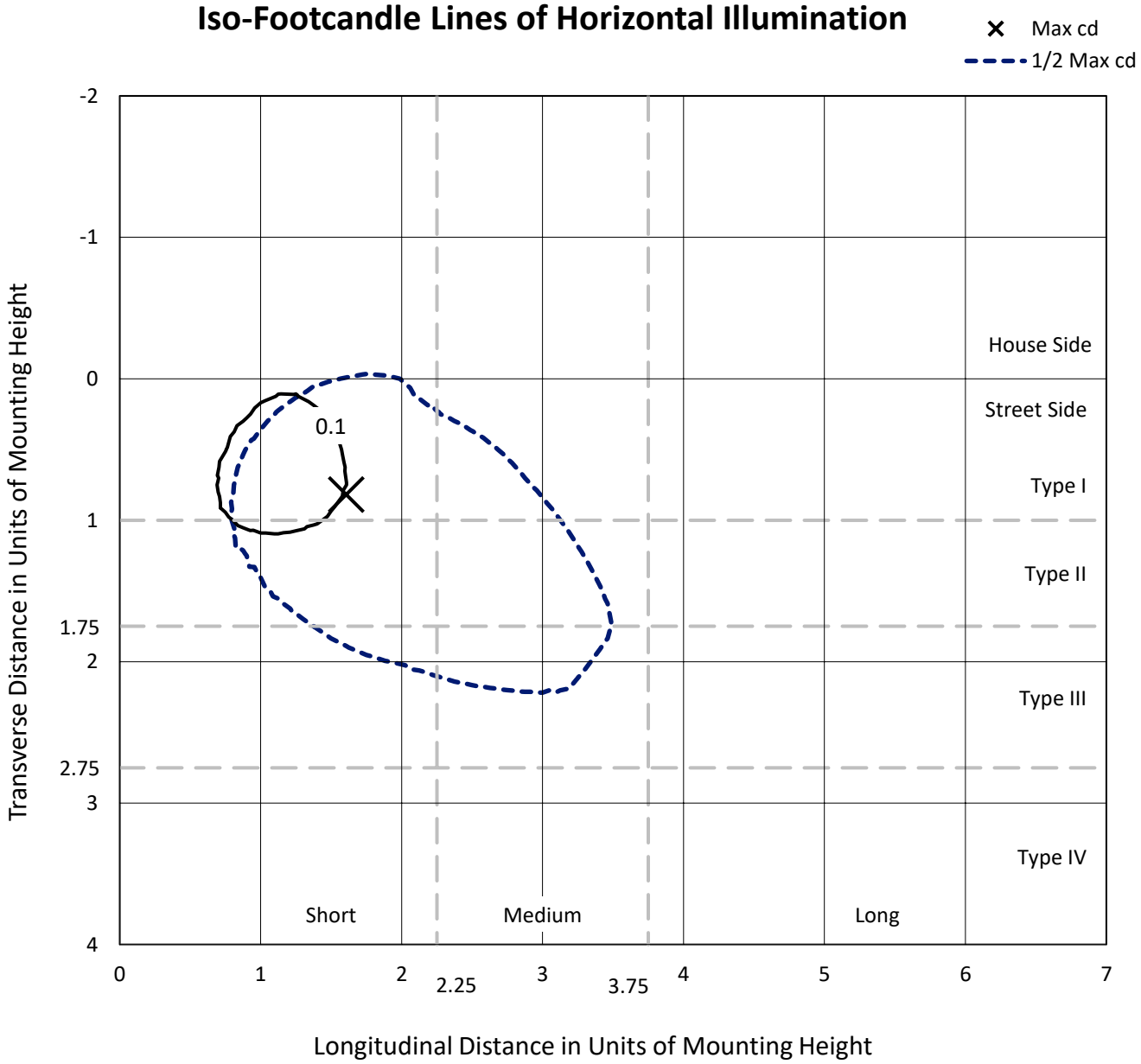
Input Watts (W):	8.9
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	N/R
Total Harmonic Distortion (THDi):	N/R
Frequency (hertz):	60
Stabilization Time:	HR
Operation Time:	3 HR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1459761
CATALOG NUMBER: ABB-CX-AMB-X-U-A-GM-CBP

Iso-Footcandle Lines of Horizontal Illumination



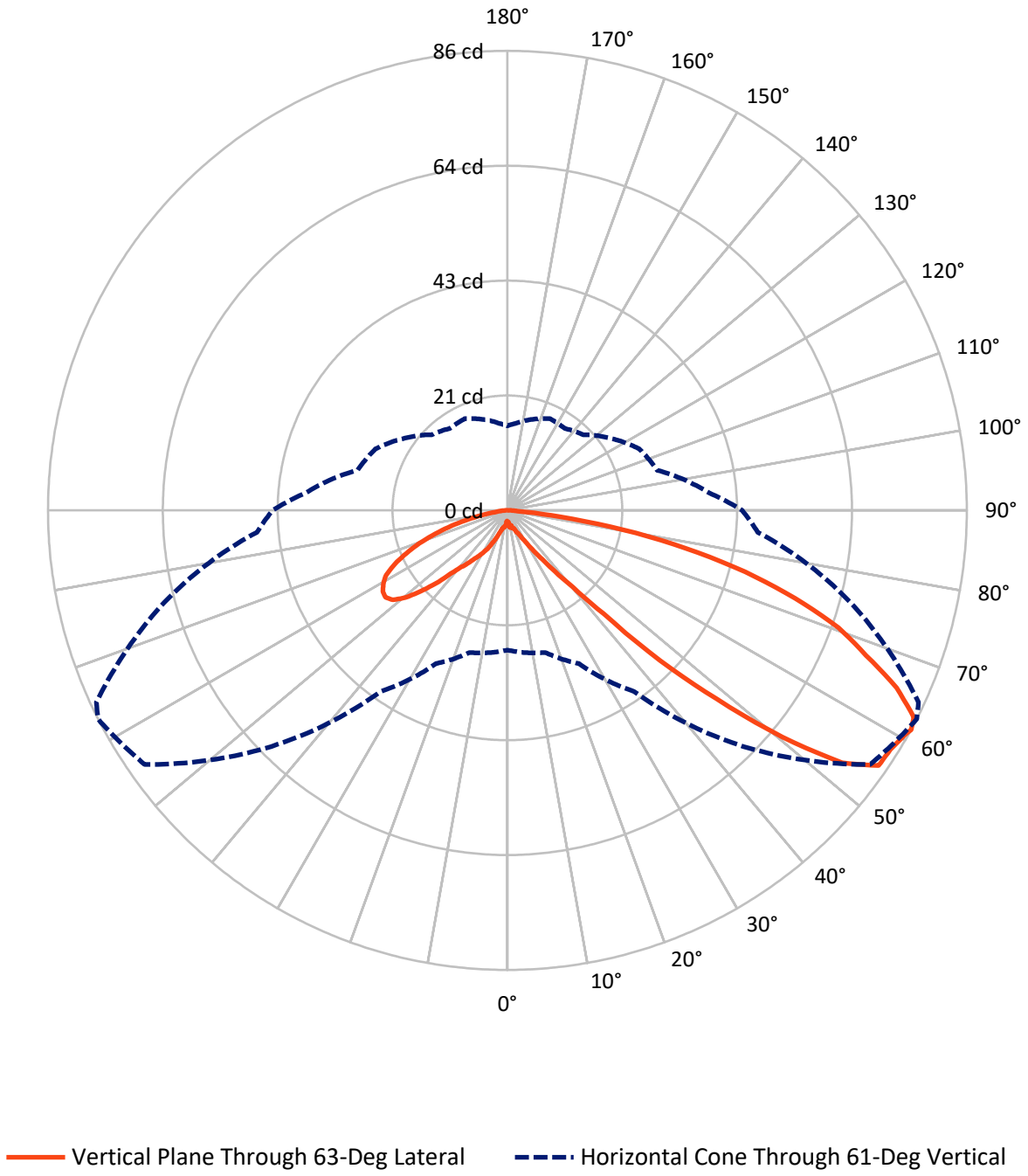
Based on 10 foot mounting height. Maximum calculated value = 0.2 fc
Type III - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1459761
CATALOG NUMBER: ABB-CX-AMB-X-U-A-GM-CBP

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

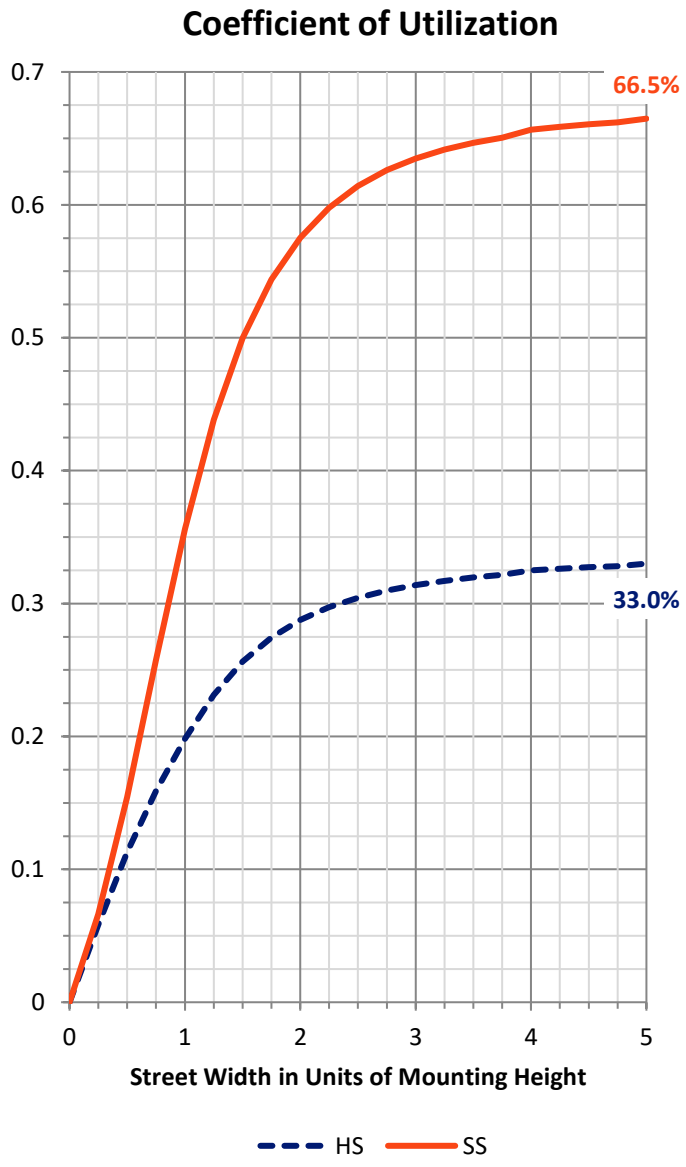
REPORT NUMBER: P1459761
CATALOG NUMBER: ABB-CX-AMB-X-U-A-GM-CBP

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.1	0.0	39.1
	% Fixture	33.2	0.0	33.2
Street Side	Lumens	78.5	0.0	78.5
	% Fixture	66.8	0.0	66.8
Total	Lumens	117.6	0.0	117.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.3	0.2
10°-20°	1.2	1.0
20°-30°	2.9	2.5
30°-40°	6.7	5.7
40°-50°	17.4	14.8
50°-60°	33.3	28.3
60°-70°	33.6	28.6
70°-80°	19.5	16.5
80°-90°	2.7	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°	117.6	100.0
0°-180°	117.6	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

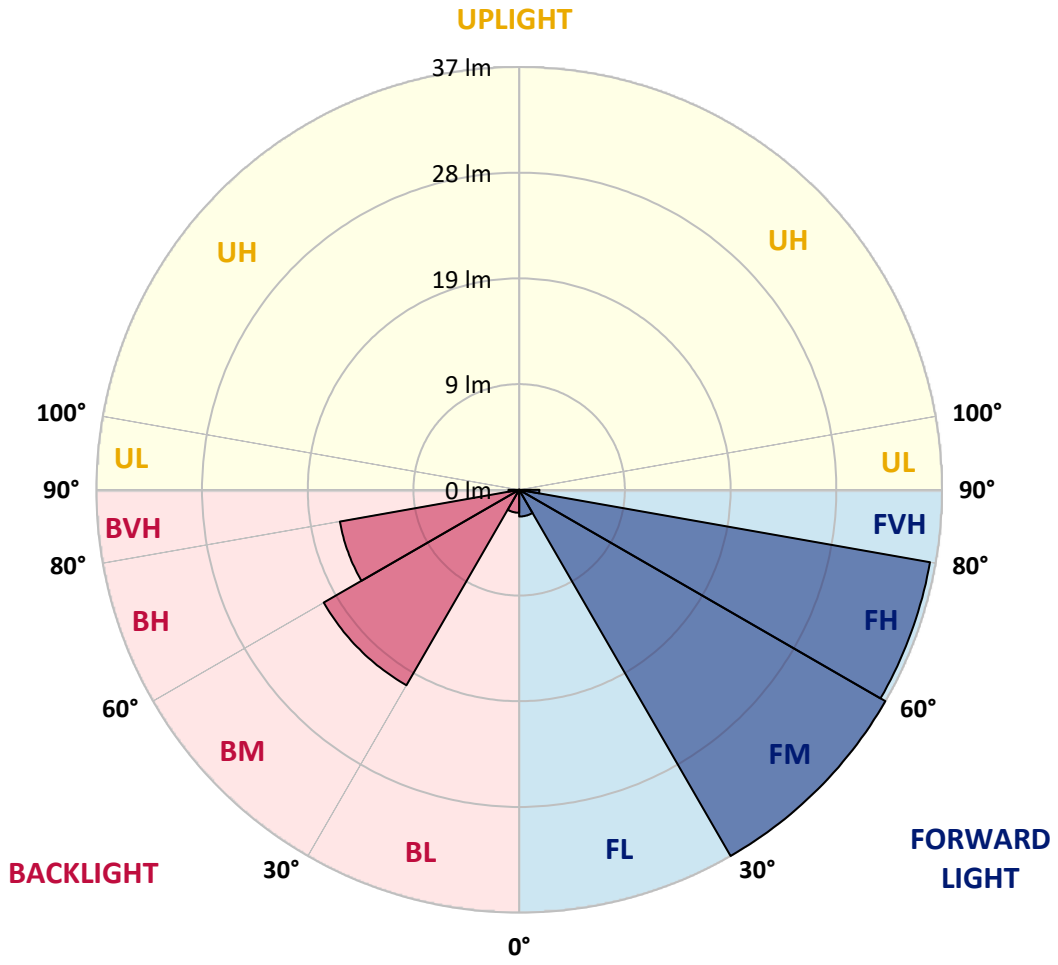
Scaled Data Report

REPORT NUMBER: P1459761
CATALOG NUMBER: ABB-CX-AMB-X-U-A-GM-CBP

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2.4	2.0			
FM	(30°-60°)	37.4	31.8			
FH	(60°-80°)	36.9	31.4			G0/660
FVH	(80°-90°)	1.8	1.5			G0/10
BL	(0°-30°)	2.0	1.7	B0/110		
BM	(30°-60°)	20.0	17.0	B0/220		
BH	(60°-80°)	16.1	13.7	B0/110		G0/110
BVH	(80°-90°)	0.9	0.8			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 III Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1459761
CATALOG NUMBER: ABB-CX-AMB-X-U-A-GM-CBP

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	*2.2*	2.2	2.2	2.2
2.5°	3.5	3.7	3.3	3.3	3.1	2.9	2.6	*2.4*	2.4	2.2	2.2
5°	4.6	4.4	4.0	3.3	3.1	2.6	2.4	*2.2*	2.2	2.2	2.0
7.5°	5.1	4.6	4.6	4.0	3.5	3.5	3.5	*3.1*	2.9	2.6	2.6
10°	4.8	4.8	4.8	4.4	4.2	4.0	3.5	*3.3*	3.1	2.9	3.1
12.5°	4.4	4.4	5.1	4.8	4.2	4.0	3.5	*2.9*	2.9	2.9	2.6
15°	4.6	4.8	5.5	5.5	5.1	4.2	3.7	*3.3*	3.3	3.1	2.9
17.5°	5.7	5.7	5.7	5.7	5.7	4.8	3.7	*3.5*	3.3	3.3	3.3
20°	6.6	6.6	6.4	6.4	6.4	5.1	4.2	*3.7*	3.7	3.7	3.5
22.5°	7.9	7.7	8.1	7.3	6.8	5.5	4.6	*4.4*	4.4	4.2	4.0
25°	9.7	10.1	8.8	7.7	7.3	5.9	5.1	*4.8*	4.8	5.1	4.6
27.5°	11.9	11.9	9.9	8.8	7.9	6.6	6.2	*5.9*	5.7	5.9	5.7
30°	13.0	13.2	11.4	9.7	8.8	7.9	7.3	*7.0*	7.0	7.3	6.8
32.5°	14.3	14.5	12.5	10.8	9.7	9.2	9.2	*9.0*	8.8	8.6	7.9
35°	15.6	15.8	14.3	11.9	11.2	11.2	11.4	*11.2*	11.0	10.3	9.4
37.5°	16.9	17.1	15.6	13.4	12.5	13.4	14.3	*14.5*	14.1	13.0	11.4
40°	17.8	18.5	16.9	14.7	14.5	16.3	18.2	*18.9*	18.5	16.5	13.6
42.5°	19.1	19.8	18.9	16.7	16.9	20.4	25.0	*26.4*	25.7	22.2	17.6
45°	22.2	22.6	22.4	20.9	21.5	29.0	38.2	*40.0*	38.7	31.6	24.0
47.5°	24.2	24.2	24.8	23.5	25.9	38.0	50.1	*52.7*	51.4	40.9	30.3
50°	26.8	26.8	28.3	28.1	32.3	48.8	63.3	*66.6*	65.5	52.1	37.6
52.5°	27.7	28.3	30.1	31.0	37.6	56.3	75.1	*78.4*	77.6	60.0	43.1
55°	28.1	28.8	30.5	32.1	40.7	61.3	82.4	*84.2*	83.3	65.7	45.7
57.5°	27.9	28.6	29.9	31.9	41.1	63.1	82.4	*84.4*	83.5	67.5	46.6
60°	27.0	27.2	28.1	31.6	41.3	62.8	82.4	*85.3*	84.6	67.0	47.2
61°	*26.1*	*26.6*	*27.5*	*31.6*	*41.3*	*62.4*	*82.8*	*85.9*	*84.8*	*66.4*	*47.0*
62.5°	25.0	25.5	26.1	31.4	40.7	60.9	82.4	*85.3*	84.2	64.8	45.7
65°	22.9	22.9	23.1	30.3	38.0	56.3	77.8	*80.0*	78.0	60.4	42.4
67.5°	19.8	19.6	20.2	28.6	35.2	51.0	71.0	*72.3*	71.0	54.7	38.9
70°	16.3	16.3	17.1	25.9	31.9	44.6	64.2	*65.7*	64.4	47.9	35.4
72.5°	13.0	12.5	14.1	22.0	27.7	37.8	55.4	*56.3*	55.4	40.7	30.3
75°	9.4	8.8	11.2	17.8	22.6	29.9	44.8	*45.9*	44.4	31.9	24.6
77.5°	6.4	5.7	7.9	12.5	16.5	21.5	33.4	*34.1*	32.5	22.9	18.0
80°	3.7	3.5	5.1	7.3	9.9	13.4	21.1	*22.0*	20.4	14.3	11.0
82.5°	2.4	2.2	2.6	2.9	3.5	5.9	9.4	*9.9*	8.6	5.5	4.4
85°	1.5	1.3	1.3	1.1	1.3	1.3	1.3	*1.8*	1.5	1.3	1.1
87.5°	1.1	1.1	0.9	0.9	0.9	0.9	1.1	*1.1*	1.1	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1459761
CATALOG NUMBER: ABB-CX-AMB-X-U-A-GM-CBP

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
2.5°	2.0	2.0	2.0	2.0	2.0	2.2	2.0	2.2	2.2	2.2	2.2
5°	2.0	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.2	2.2	2.0
7.5°	2.6	2.6	2.6	2.9	3.1	2.9	2.6	2.9	2.9	2.6	2.6
10°	2.9	2.9	2.9	3.1	3.5	3.5	3.3	3.3	3.3	2.9	2.9
12.5°	2.9	2.9	3.1	3.1	3.3	4.0	3.7	4.0	3.7	3.3	3.3
15°	3.1	3.1	3.3	3.3	4.0	4.4	4.2	4.2	4.0	3.3	3.3
17.5°	3.5	3.5	3.7	3.7	4.4	4.8	5.1	4.4	4.2	3.5	3.5
20°	3.5	3.7	4.4	4.4	5.1	5.3	5.7	5.1	4.4	4.0	4.0
22.5°	4.0	4.0	4.6	5.5	5.9	5.9	6.2	5.3	4.6	4.2	4.2
25°	4.6	4.6	5.5	6.6	6.8	6.4	6.6	5.7	4.8	4.2	4.2
27.5°	5.5	5.9	6.8	8.1	7.5	7.0	6.8	6.2	5.1	4.6	4.4
30°	7.0	6.8	7.9	9.0	8.6	7.7	7.5	6.6	5.3	4.6	4.6
32.5°	8.3	8.3	9.2	10.1	9.7	8.6	8.1	7.0	5.7	4.8	4.8
35°	9.9	10.1	10.5	11.2	10.5	9.2	8.8	7.7	6.2	5.3	5.3
37.5°	11.6	11.9	12.1	12.7	11.6	10.3	9.7	8.3	6.8	5.9	6.2
40°	13.6	14.1	14.1	14.1	13.0	11.4	10.8	9.2	7.9	7.3	7.5
42.5°	17.4	17.6	17.1	16.3	14.7	13.0	12.5	11.2	9.7	8.8	9.4
45°	22.9	22.4	21.5	19.6	17.6	15.4	14.7	13.4	11.9	11.0	11.6
47.5°	28.1	26.8	25.5	22.6	20.2	17.8	16.9	16.0	14.3	13.2	13.8
50°	34.9	31.9	29.2	25.7	22.6	20.2	18.9	18.2	16.3	15.2	15.2
52.5°	39.8	35.2	31.2	27.9	24.2	21.3	20.0	19.6	17.6	16.3	16.0
55°	41.5	36.7	31.9	28.8	24.8	21.5	20.2	19.8	18.0	16.7	16.5
57.5°	42.6	37.4	31.0	28.6	24.4	21.1	19.6	19.6	18.0	16.7	16.5
60°	43.9	38.0	29.7	27.7	23.7	20.4	19.1	19.1	17.8	16.5	16.3
61°	*43.9*	*37.8*	*29.0*	*27.2*	*23.5*	*20.0*	*18.7*	*18.9*	*17.6*	*16.3*	*15.8*
62.5°	43.3	37.1	27.7	26.4	22.6	19.3	18.2	18.5	17.1	15.8	15.6
65°	41.1	35.4	25.7	24.0	20.7	17.6	16.9	17.1	16.0	14.7	14.5
67.5°	38.2	33.0	23.1	21.1	18.2	15.8	15.4	15.4	14.7	13.4	13.2
70°	34.1	29.7	20.2	18.0	15.8	13.8	13.6	13.8	13.0	12.1	11.6
72.5°	28.8	25.3	17.1	14.5	13.0	11.6	11.9	11.6	11.2	10.3	9.9
75°	22.4	20.2	13.6	11.0	9.9	9.4	9.4	9.4	9.0	8.6	8.1
77.5°	15.6	14.3	9.4	7.7	7.0	7.0	7.0	6.8	6.8	6.4	5.9
80°	8.8	8.1	5.3	4.6	4.4	4.6	4.6	4.2	4.4	4.4	4.0
82.5°	2.9	2.9	2.4	2.4	2.4	2.4	2.2	2.0	2.4	2.6	2.2
85°	0.9	1.1	1.1	1.3	1.3	1.1	1.1	1.1	1.3	1.5	1.3
87.5°	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
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

Invue

Report Number: SP1-2509-539-4

Test Date: 04/14/2026

Luminaire Tested: Luxscape Bollard

Data in this report applies to families of products including ;Luxscape

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

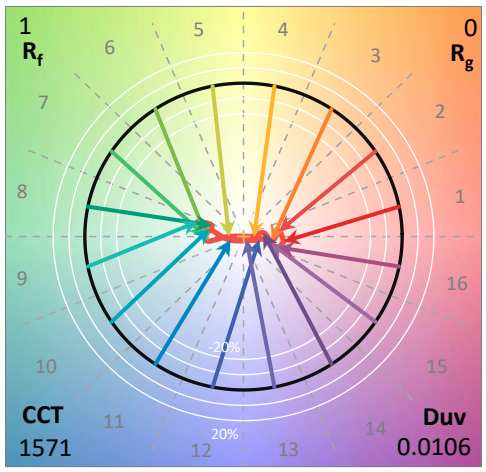
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2509-539-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	04/15/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Invue
Catalog Number:	**Luxscape Bollard**
Description:	LXS-C1-AMB-LED-XX-Dx-S-GM-SPECULAR REFLECTOR

Spectral Parameters

CCT (K):	1571
CIE u':	0.3487
CIE v':	0.5475
Duv:	0.0106
CIE x:	0.5886
CIE y:	0.4107
CIE z:	0.0007
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	592
Purity:	99.96896
Rf:	1.4
Rg:	0.2

CRI (Ra):	-19.0				
R1:	-31.4	R9:	-376.7		
R2:	52.4	R10:	27.7		
R3:	21.1	R11:	-91.5		
R4:	-63.8	R12:	-12.3		
R5:	-37.6	R13:	-13.7		
R6:	40.7	R14:	48.6		
R7:	-3.9	R15:	-63.0		
R8:	-129.2				



Test Conditions

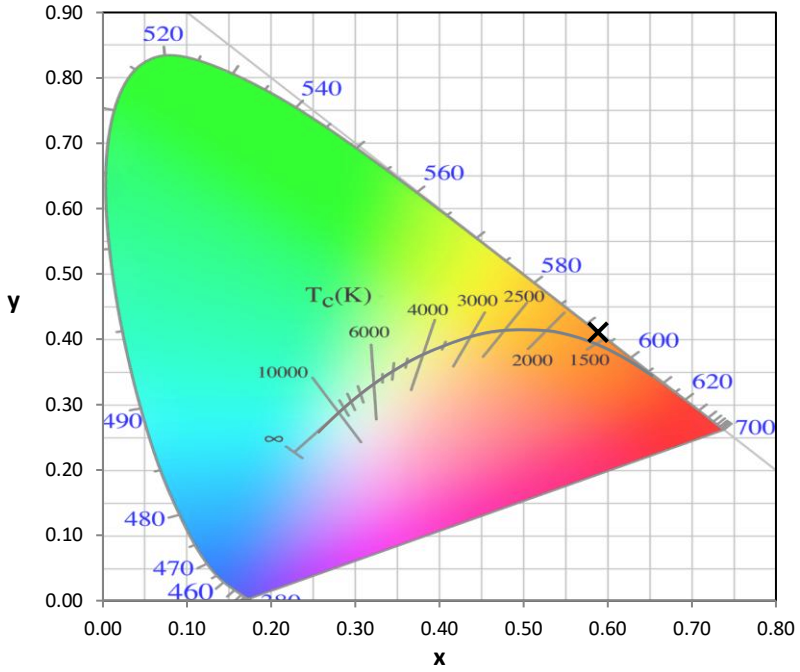
Stabilization Time:	95M
Operation Time:	2H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2509-539-4

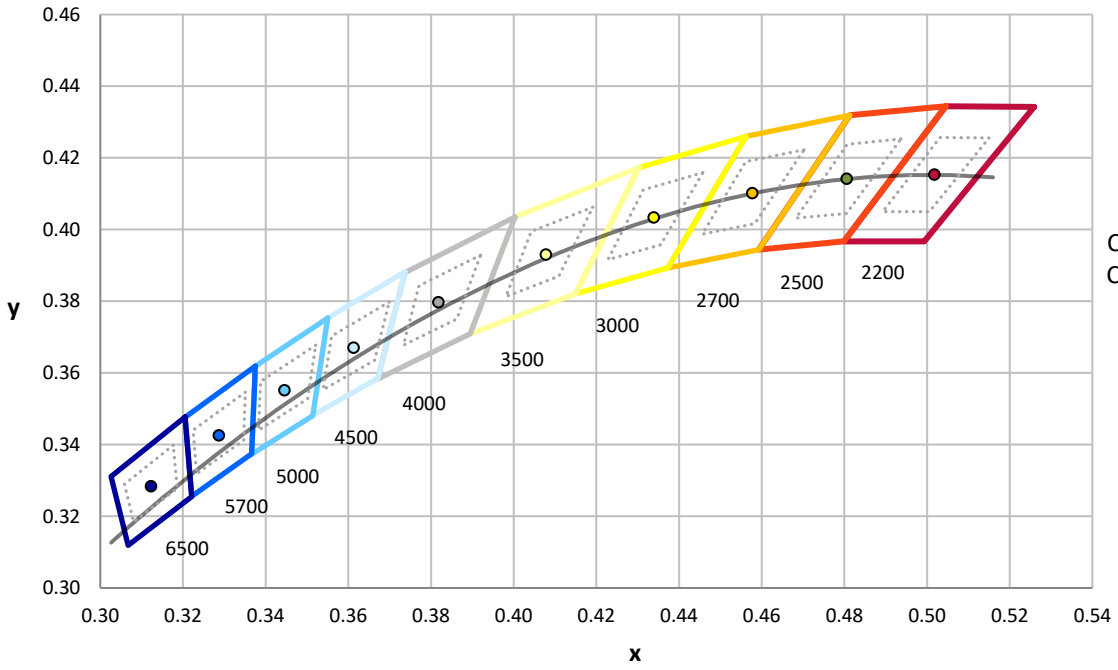
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2509-539-4

CIE 1931 Chromaticity Diagram



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

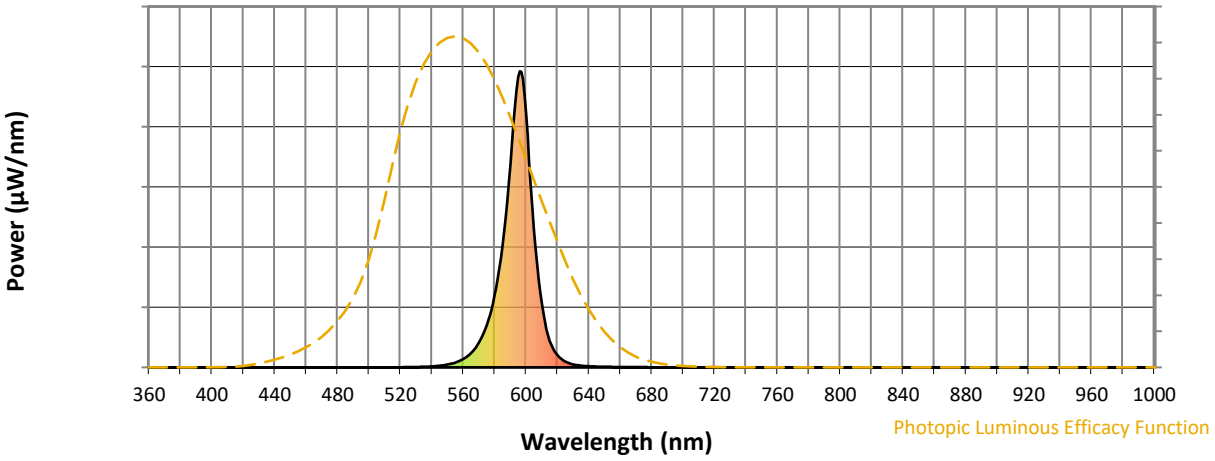


CCT = 1571K
CIE x = 0.5886
CIE y = 0.4107
Duv = 0.0106

Point lies outside the range

REPORT NUMBER: SP1-2509-539-4

Photopic Flux vs. Wavelength

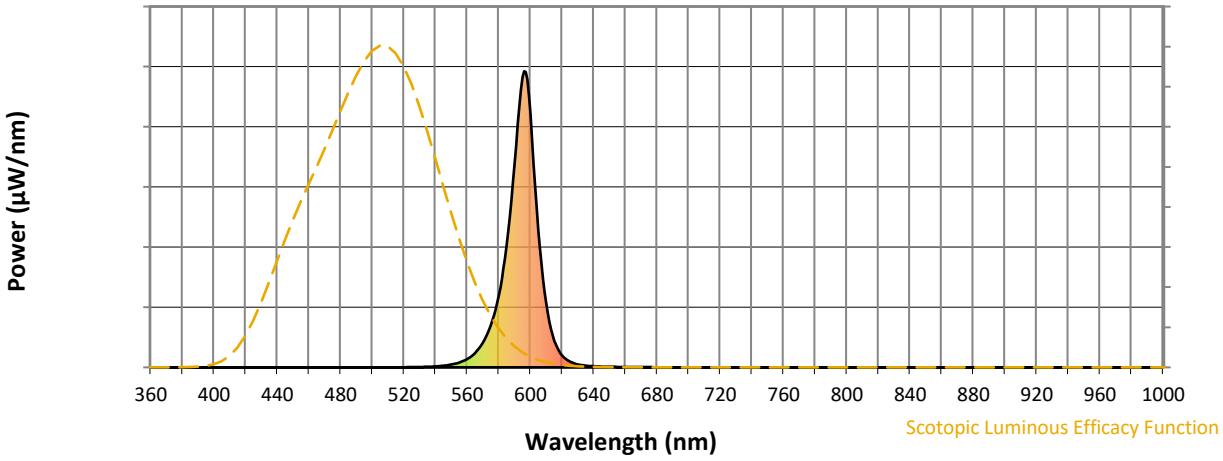


Photopic Lumens: NR

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	41	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	19	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	10	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	6	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	4	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	6	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	10	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	16	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	28	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	48	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	84	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	143	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	243	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	409	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	686	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	980	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	854	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	466	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	216	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	90	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2509-539-4

Scotopic Flux vs. Wavelength

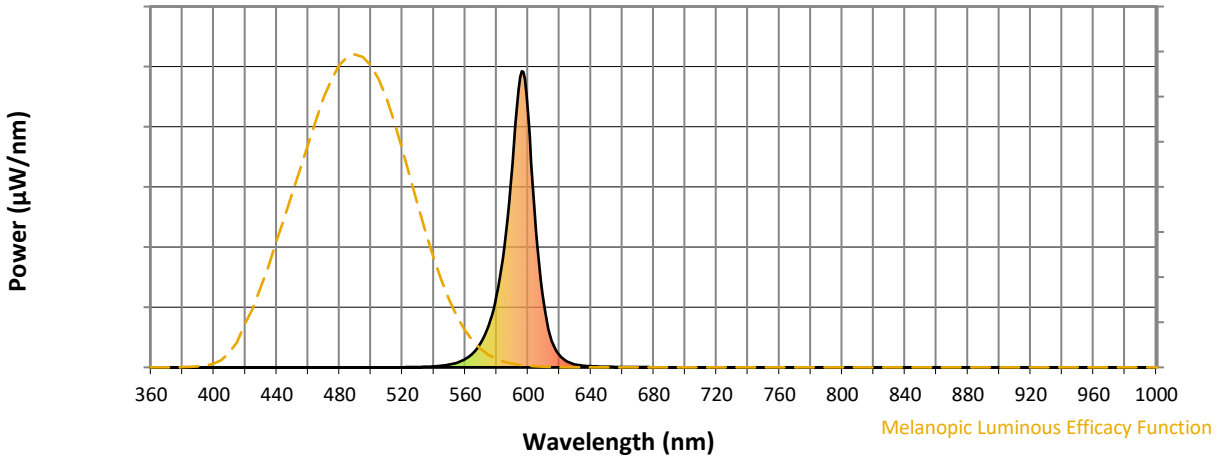


Scotopic Lumens: NR **S/P: 0.23**

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	41	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	19	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	10	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	6	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	4	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	6	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	10	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	16	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	28	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	48	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	84	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	143	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	243	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	409	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	686	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	980	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	854	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	466	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	216	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	90	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2509-539-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 0.13**

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	41	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	19	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	10	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	6	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	4	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	3	NR	775	0	NR	905	0	NR
390	0	NR	520	1	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	1	NR	655	2	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	2	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	3	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	6	NR	675	1	NR	805	0	NR	935	0	NR
420	0	NR	550	10	NR	680	1	NR	810	0	NR	940	0	NR
425	0	NR	555	16	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	28	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	48	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	84	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	143	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	243	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	409	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	686	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	980	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	854	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	466	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	216	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	90	NR	745	0	NR	875	0	NR			

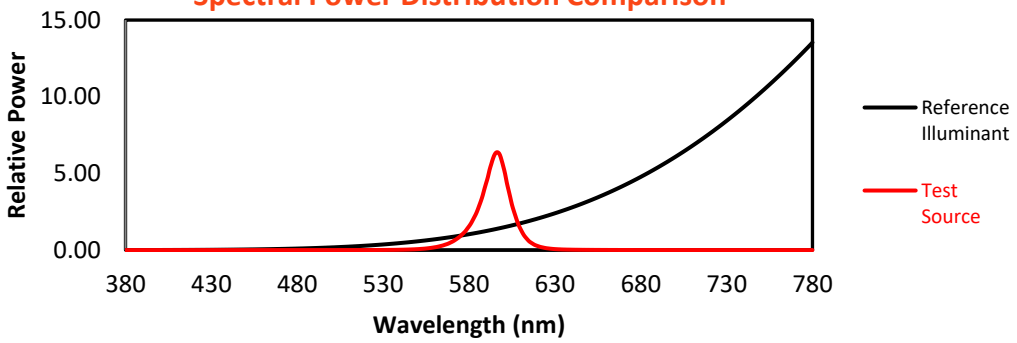
REPORT NUMBER: SP1-2509-539-4

TM-30-18

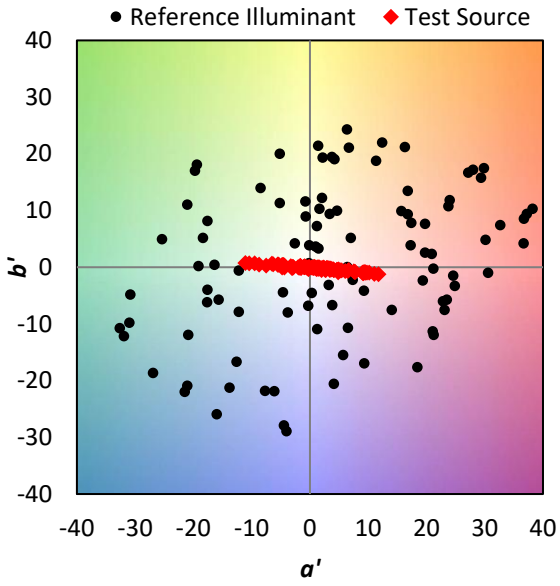
Summary

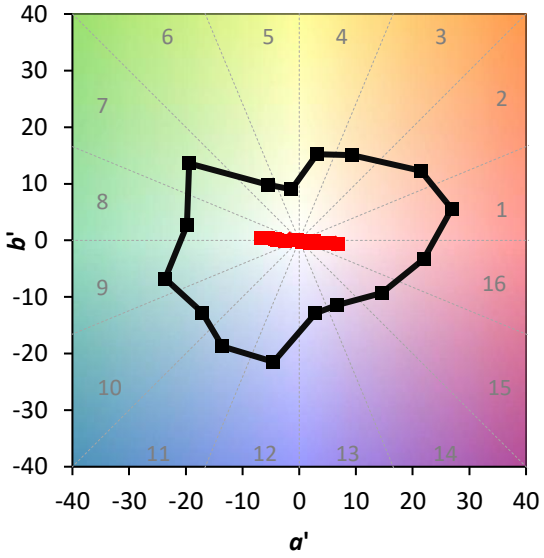
R_f = 1.4
R_g = 0.2
CIE R_a = -19.0
R_9 = -376.7

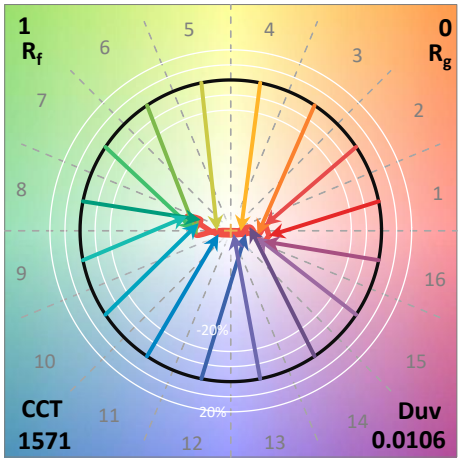
Spectral Power Distribution Comparison

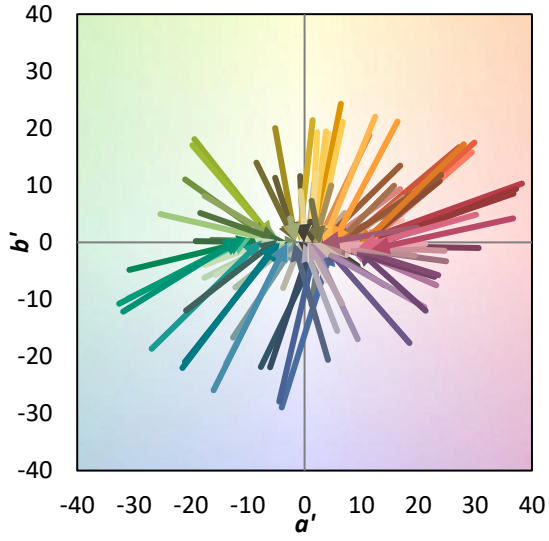


Color Vector Graphics







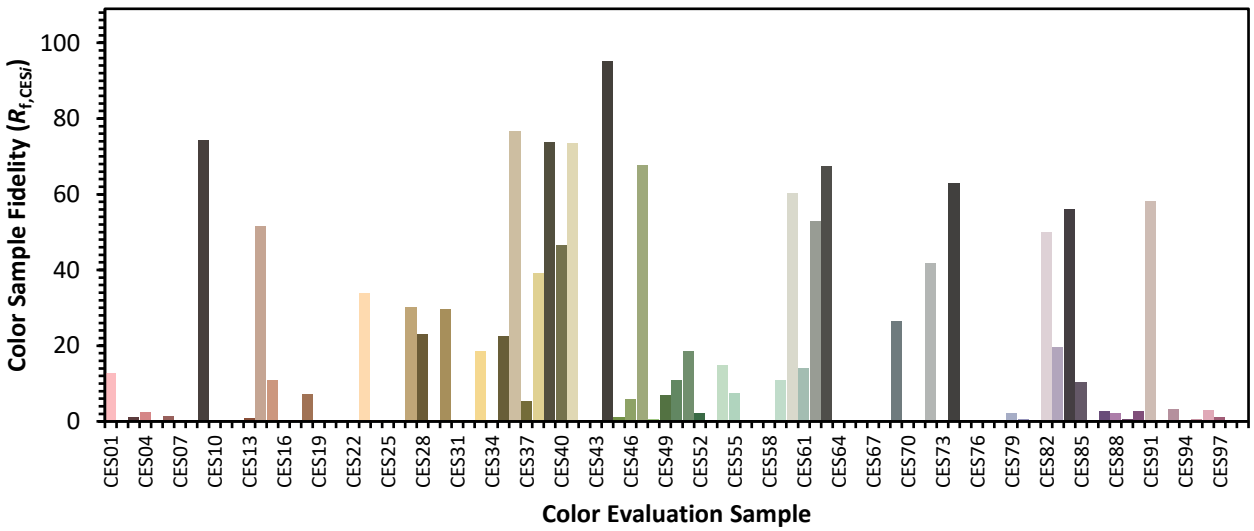


REPORT NUMBER: SP1-2509-539-4

TM-30-18

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

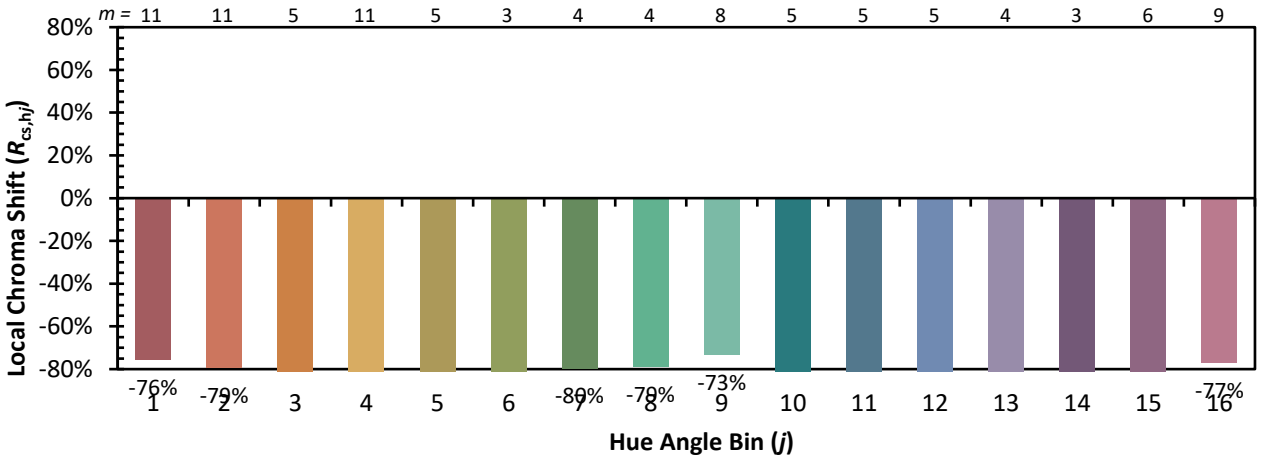
CES01 = 90	CES26 = 0	CES51 = 19	CES76 = 0
CES02 = 69	CES27 = 30	CES52 = 2	CES77 = 0
CES03 = 31	CES28 = 23	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 0	CES54 = 15	CES79 = 2
CES05 = 52	CES30 = 30	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 41	CES32 = 0	CES57 = 0	CES82 = 50
CES08 = 38	CES33 = 19	CES58 = 0	CES83 = 20
CES09 = 29	CES34 = 0	CES59 = 11	CES84 = 56
CES10 = 87	CES35 = 22	CES60 = 60	CES85 = 10
CES11 = 70	CES36 = 77	CES61 = 14	CES86 = 0
CES12 = 75	CES37 = 5	CES62 = 53	CES87 = 3
CES13 = 47	CES38 = 39	CES63 = 68	CES88 = 2
CES14 = 76	CES39 = 74	CES64 = 0	CES89 = 1
CES15 = 74	CES40 = 46	CES65 = 0	CES90 = 3
CES16 = 49	CES41 = 74	CES66 = 0	CES91 = 58
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 59	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 95	CES69 = 26	CES94 = 0
CES20 = 71	CES45 = 1	CES70 = 0	CES95 = 1
CES21 = 94	CES46 = 6	CES71 = 0	CES96 = 3
CES22 = 87	CES47 = 68	CES72 = 42	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 7	CES74 = 63	CES99 = 0
CES25 = 79	CES50 = 11	CES75 = 0	

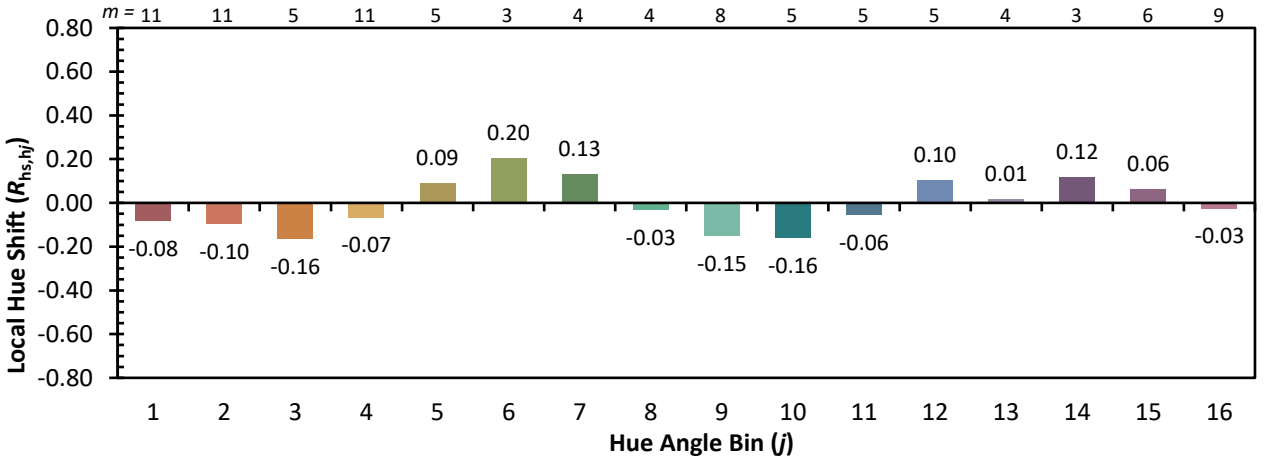


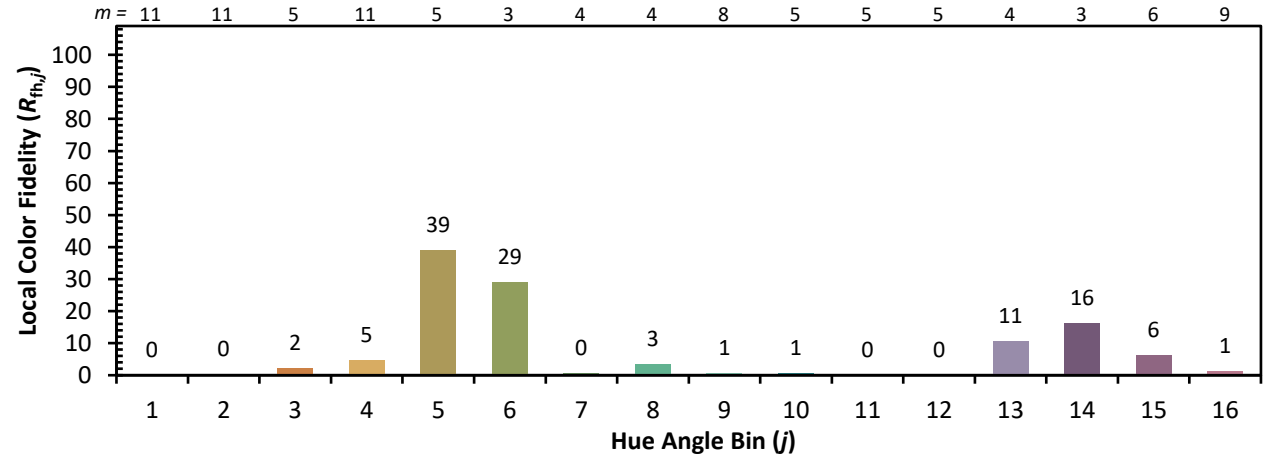
REPORT NUMBER: SP1-2509-539-4

TM-30-18

Color Rendition by Hue-Angle Bin



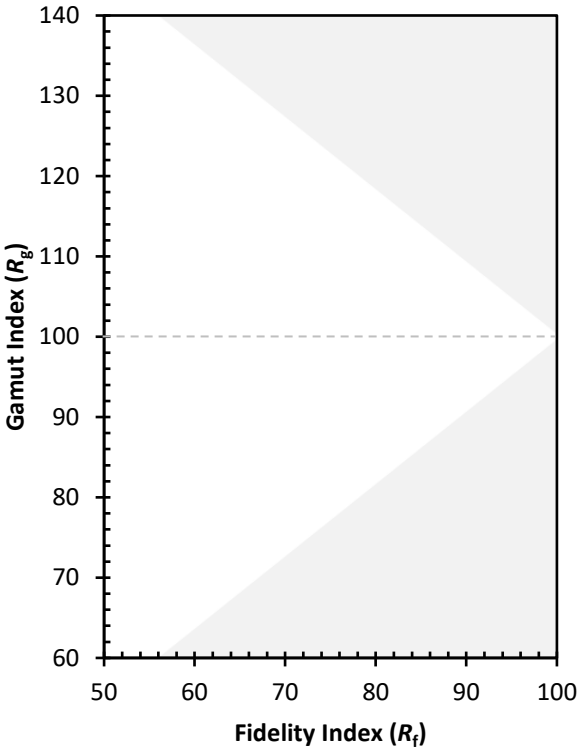


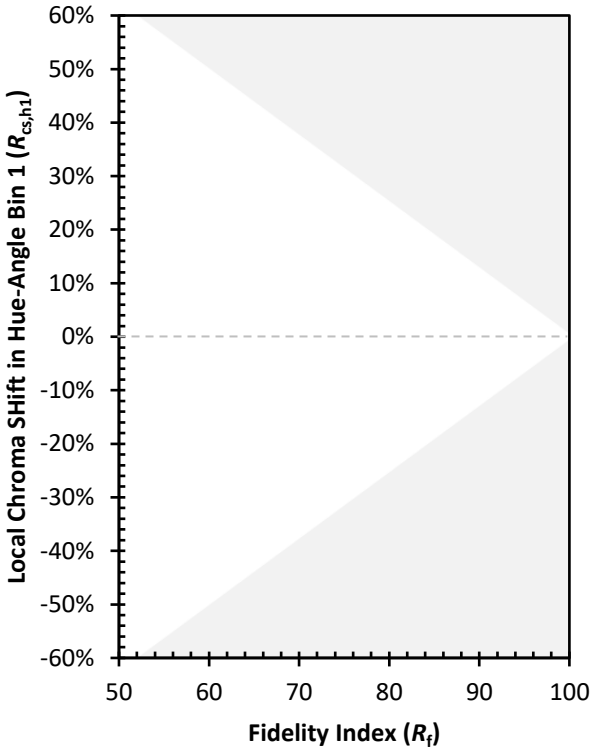


REPORT NUMBER: SP1-2509-539-4

TM-30-18

Measure Comparisons





(END OF REPORT)