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: P1459777

Luminaire Tested: LXB-CX-827-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:	P1459777
	TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2509-539-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	5/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	INVUE
Catalog Number:	LXB-CX-827-X-U-A-GM-CBP
Description:	LuxeScape OUTDOOR ARCHITECTURAL BOLLARD LUMINAIRE
	ASYMMETRIC OPTIC, GRAPHITE METALLIC PAINTED FINISH
Light Source:	2200K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	349.4 lumens
Efficiency:	N/A
Efficacy:	39.3 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

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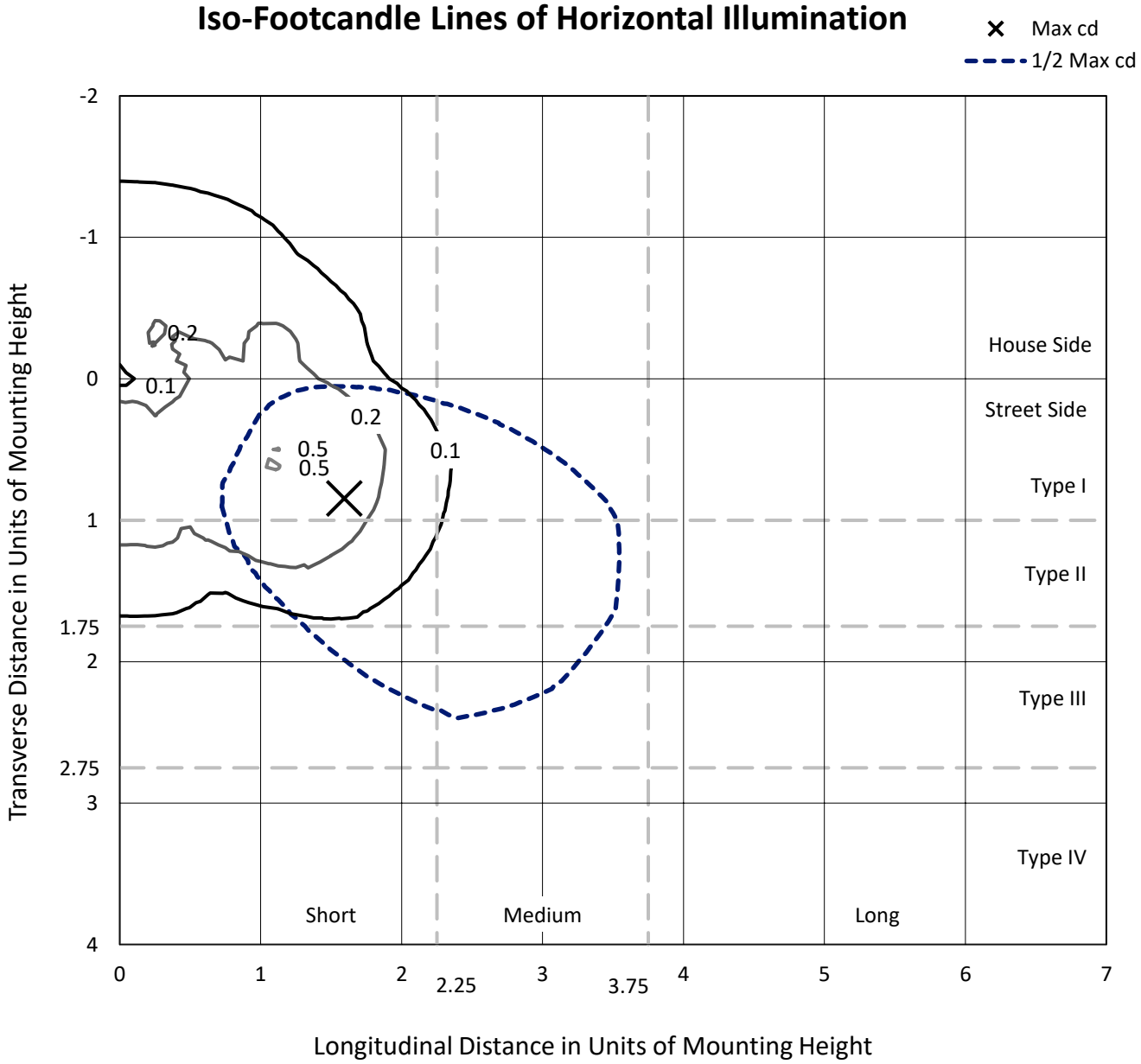
REPORT NUMBER: P1459777
CATALOG NUMBER: LXB-CX-827-X-U-A-GM-CBP

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 0.5 fc
Type III - Short - N/A

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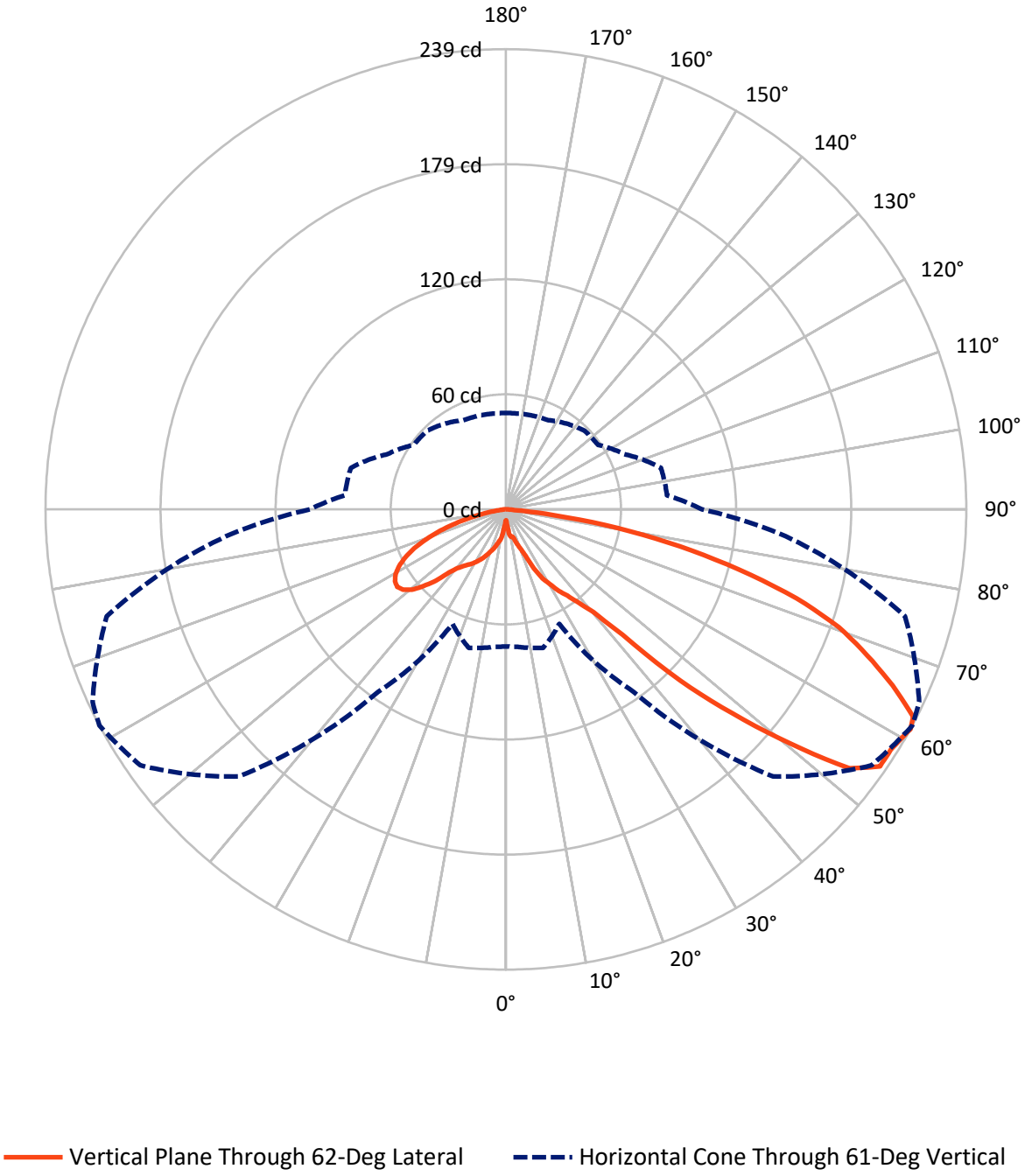
Luminous Intensity Polar Plot



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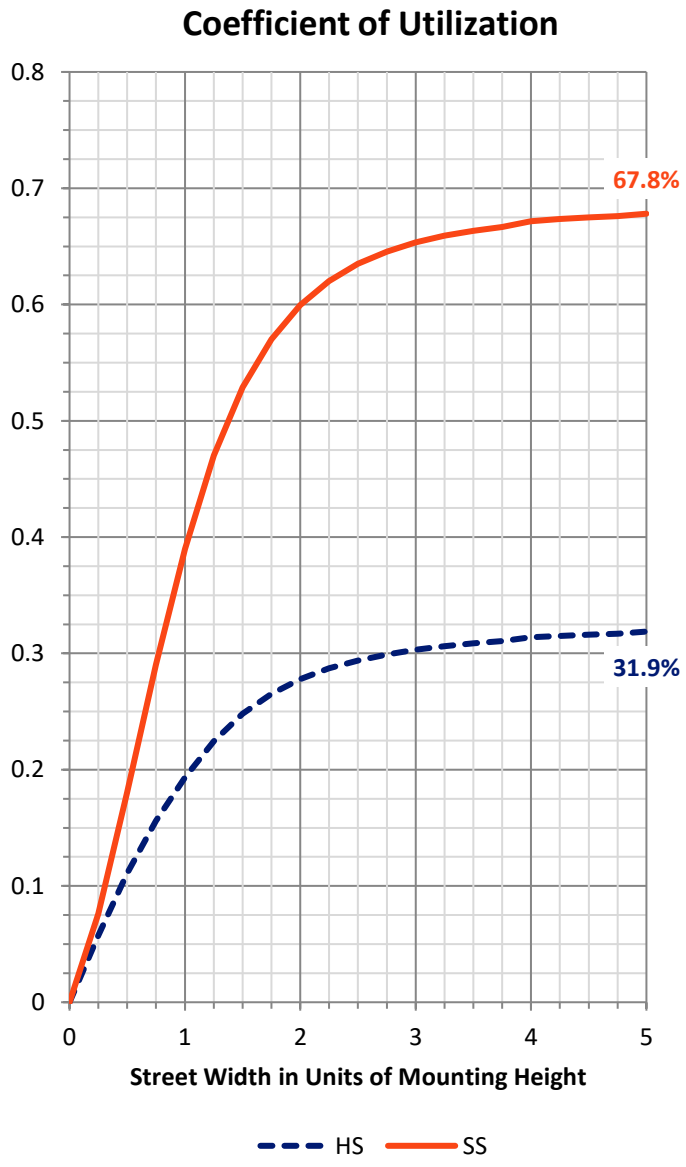
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	112.0	0.0	112.0
	% Fixture	32.1	0.0	32.1
Street Side	Lumens	237.4	0.0	237.4
	% Fixture	67.9	0.0	67.9
Total	Lumens	349.4	0.0	349.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.3
10°-20°	5.8	1.7
20°-30°	13.7	3.9
30°-40°	25.3	7.2
40°-50°	53.8	15.4
50°-60°	94.6	27.1
60°-70°	94.1	26.9
70°-80°	53.8	15.4
80°-90°	7.0	2.0
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°	349.4	100.0
0°-180°	349.4	100.0



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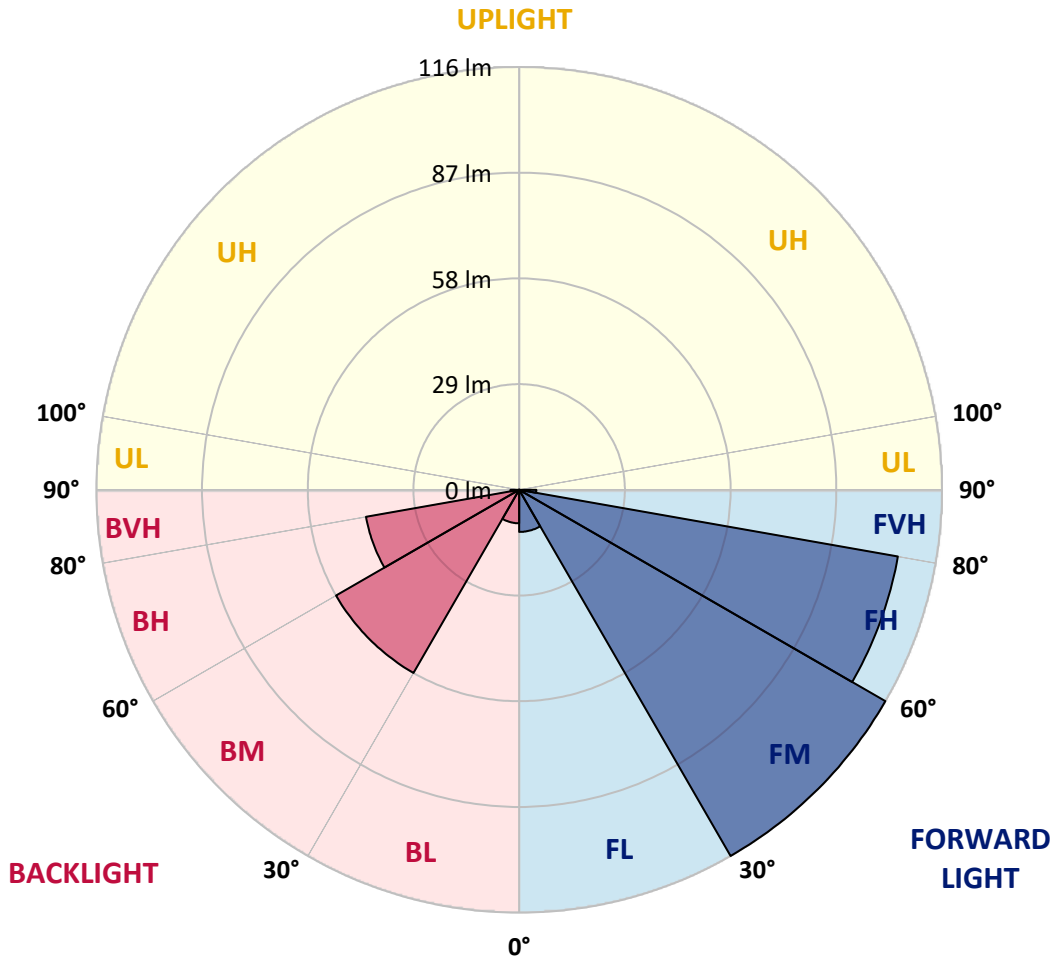
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	11.5	3.3			
FM	(30°-60°)	115.8	33.1			
FH	(60°-80°)	105.3	30.1			G0/660
FVH	(80°-90°)	4.7	1.3			G0/10
BL	(0°-30°)	9.2	2.6	B0/110		
BM	(30°-60°)	57.9	16.6	B0/220		
BH	(60°-80°)	42.6	12.2	B0/110		G0/110
BVH	(80°-90°)	2.4	0.7			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



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REPORT NUMBER: P1459777
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	7.2	7.2	7.2	7.8	7.2	6.7	6.7	6.7	6.7	6.1	6.1
5°	12.2	12.2	12.2	11.7	11.1	11.1	10.0	9.5	8.9	8.3	8.3
7.5°	18.9	18.4	20.0	19.5	17.2	15.0	13.9	13.3	12.8	12.2	11.7
10°	23.9	25.0	22.8	22.2	21.1	18.4	15.6	14.5	13.9	13.3	12.2
12.5°	27.8	26.1	25.0	25.6	22.8	19.5	16.7	14.5	13.9	13.3	12.8
15°	29.5	30.0	29.5	28.4	25.0	20.6	17.2	15.6	15.6	14.5	15.0
17.5°	32.8	32.8	32.3	28.9	26.1	21.7	19.5	18.9	18.4	16.7	16.7
20°	35.0	35.6	35.6	30.0	27.3	23.9	22.8	21.7	21.1	20.0	18.4
22.5°	37.3	38.4	37.3	32.8	29.5	26.7	26.7	26.1	25.6	23.4	22.2
25°	40.0	40.0	38.9	33.9	31.7	30.0	33.4	33.9	32.8	27.8	26.1
27.5°	42.3	42.8	40.6	36.7	33.9	35.0	40.6	40.6	40.0	32.8	29.5
30°	44.5	44.5	42.8	38.4	36.2	40.0	45.1	45.1	45.1	40.0	33.4
32.5°	46.2	46.2	44.5	40.0	38.4	44.5	49.5	50.6	50.1	45.1	36.7
35°	47.3	47.8	45.6	41.7	40.6	48.9	54.0	55.1	55.1	50.6	40.0
37.5°	49.5	49.5	47.8	42.8	43.9	55.1	60.6	61.7	61.7	56.7	44.5
40°	51.7	51.2	50.1	45.6	47.8	62.8	68.4	70.1	70.1	65.6	50.1
42.5°	55.1	55.1	54.0	49.5	55.1	79.0	85.1	89.0	89.0	82.3	61.7
45°	64.5	64.5	65.1	60.1	70.1	109.0	122.9	126.8	125.7	114.0	80.6
47.5°	69.5	69.0	71.7	65.1	83.4	135.2	152.4	158.5	157.4	146.3	100.1
50°	75.1	75.1	79.5	72.3	99.6	164.1	185.8	191.3	190.8	175.2	117.4
52.5°	76.8	77.3	82.9	75.6	110.1	185.2	215.8	223.6	221.9	198.6	130.7
55°	77.3	78.4	83.4	75.1	115.1	196.9	230.8	235.8	234.7	211.4	139.0
57.5°	76.2	77.3	80.6	70.6	117.4	198.6	230.8	235.8	234.2	214.7	142.9
60°	72.9	74.0	76.8	67.3	116.8	197.4	230.3	238.0	235.8	215.2	143.5
61°	71.2	71.7	74.5	65.6	115.7	196.3	231.9	239.2	236.9	214.7	142.4
62.5°	67.9	69.0	71.2	62.3	112.4	193.6	230.3	237.5	235.8	212.5	139.6
65°	61.2	62.3	63.4	55.6	106.2	184.1	216.9	220.8	220.3	200.2	131.3
67.5°	53.4	54.0	55.6	48.4	97.9	170.2	197.4	202.5	201.3	184.1	120.7
70°	44.5	45.1	46.7	40.0	87.9	151.8	178.0	183.5	182.4	165.7	107.9
72.5°	34.5	35.0	36.2	31.1	74.5	129.6	152.4	158.0	157.4	142.9	92.3
75°	24.5	25.0	26.1	22.8	58.4	105.1	121.8	125.1	126.3	115.7	72.9
77.5°	15.6	15.6	16.1	14.5	41.7	76.8	89.5	92.3	93.4	85.1	52.8
80°	8.3	8.3	8.3	7.8	23.9	47.8	56.2	59.0	58.4	54.0	31.7
82.5°	3.9	3.9	3.9	3.3	8.9	18.4	22.8	25.0	26.7	22.8	12.8
85°	1.7	1.7	2.2	1.1	2.2	3.3	3.9	4.4	5.0	5.0	3.3
87.5°	1.7	1.7	1.7	0.6	1.1	1.7	2.2	2.2	2.2	1.7	1.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	6.1	6.1	6.1	6.1	7.2	6.7	6.7	6.1	5.6	5.6	5.6
5°	7.8	7.2	7.8	8.9	8.9	9.5	10.0	10.0	9.5	9.5	9.5
7.5°	11.7	11.1	11.1	11.7	13.3	15.0	15.0	13.9	12.8	11.7	11.7
10°	12.2	12.2	12.8	14.5	18.4	18.9	18.9	16.7	15.6	15.0	15.0
12.5°	12.8	12.8	13.9	15.6	20.0	20.0	20.0	18.9	17.2	15.6	15.6
15°	15.0	15.0	16.1	18.4	20.6	21.7	22.2	21.1	18.9	15.0	15.0
17.5°	16.7	17.8	18.9	20.6	22.2	23.4	23.4	22.2	18.9	16.1	15.0
20°	18.9	20.0	22.8	22.8	23.4	24.5	24.5	22.8	18.4	16.1	15.6
22.5°	21.7	23.4	25.6	25.0	25.0	25.6	26.1	23.9	18.9	16.7	16.1
25°	26.1	26.7	27.8	27.3	27.3	26.1	27.8	25.6	21.1	18.4	18.4
27.5°	29.5	29.5	30.6	29.5	28.9	28.4	28.9	27.3	22.8	20.6	20.0
30°	31.7	32.3	33.4	31.7	30.6	29.5	30.0	28.4	24.5	22.2	22.2
32.5°	34.5	35.0	35.0	33.9	31.7	30.6	31.1	28.9	25.0	23.9	23.4
35°	37.3	37.3	37.3	35.6	33.4	32.3	32.3	30.0	26.1	25.0	24.5
37.5°	40.0	40.0	40.0	37.8	35.0	33.9	33.4	31.1	27.8	26.7	26.1
40°	44.5	43.4	43.4	40.6	37.3	35.6	35.0	31.7	29.5	28.4	28.4
42.5°	52.8	50.6	50.1	45.1	41.2	38.9	37.8	34.5	32.3	31.1	30.6
45°	66.2	61.7	61.7	53.4	48.4	46.7	45.1	40.6	38.9	37.3	36.7
47.5°	79.0	72.3	72.3	60.6	53.4	52.3	50.1	45.1	43.4	41.7	41.2
50°	91.2	81.2	81.2	66.7	58.4	57.3	54.5	50.6	48.4	46.7	46.7
52.5°	100.1	87.9	87.9	70.6	61.2	60.6	57.8	53.4	51.2	49.5	49.5
55°	104.0	89.5	89.5	72.3	62.3	61.7	59.0	55.1	52.3	51.2	51.2
57.5°	104.6	87.9	87.9	71.7	61.7	61.2	57.3	53.4	52.3	51.7	51.2
60°	102.9	85.1	85.1	69.5	59.5	59.0	55.6	51.7	51.2	50.6	50.6
61°	*101.8*	*84.0*	*83.4*	*67.9*	*58.4*	*57.8*	*54.5*	*51.2*	*50.6*	*50.1*	*50.1*
62.5°	100.1	81.2	81.2	65.6	56.2	56.2	52.8	50.1	48.9	48.9	48.9
65°	93.4	75.1	74.5	60.6	51.7	51.7	48.9	47.3	46.2	46.2	46.2
67.5°	84.5	66.7	66.2	54.0	46.2	46.2	43.9	42.8	42.3	42.3	42.8
70°	74.0	57.8	56.7	46.2	39.5	40.0	37.8	38.4	37.8	37.8	38.4
72.5°	62.8	47.8	46.7	37.3	32.3	33.4	32.3	33.4	32.3	32.8	33.4
75°	48.9	36.7	35.6	27.8	25.0	26.1	25.6	27.3	26.7	27.3	27.3
77.5°	33.9	25.0	23.9	18.9	17.8	18.9	18.9	20.6	20.0	21.1	21.1
80°	19.5	15.0	13.9	11.1	11.1	11.7	12.2	13.9	13.9	14.5	15.0
82.5°	7.8	6.1	6.1	5.0	5.6	6.1	6.1	7.8	7.8	8.3	8.3
85°	1.7	2.2	2.8	2.2	2.2	2.2	1.7	2.8	2.8	3.3	3.3
87.5°	1.1	1.1	1.7	1.7	1.7	1.7	1.1	1.7	2.2	2.8	2.8
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

Invue

Report Number: SP1-2509-539-6

Test Date: 04/15/2026

Luminaire Tested: Luxscape Bollard

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

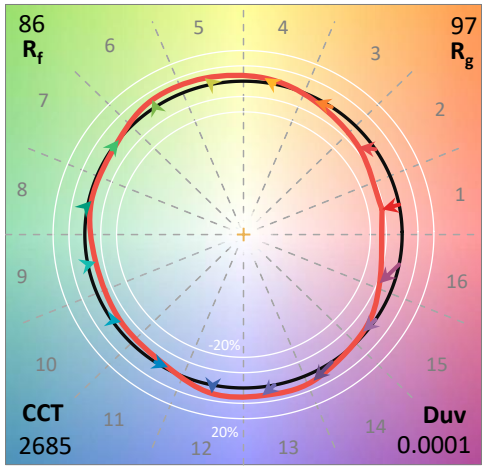
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2509-539-6
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:	ARB-C1-827-LED-XX-Dx-S-GM-SPECULAR REFLECTOR

Spectral Parameters

CCT (K):	2685
CIE u':	0.2631
CIE v':	0.5278
Duv:	0.0001
CIE x:	0.4613
CIE y:	0.4112
CIE z:	0.1276
Peak Wavelength (nm):	607
Dominant Wavelength (nm):	584
Purity:	61.87869
Rf:	85.8
Rg:	97.1

CRI (Ra):	83.3				
R1:	82.0	R9:	7.2		
R2:	92.1	R10:	83.2		
R3:	95.4	R11:	84.1		
R4:	82.6	R12:	80.9		
R5:	82.9	R13:	84.4		
R6:	92.4	R14:	98.1		
R7:	81.6	R15:	73.2		
R8:	57.2				



Test Conditions

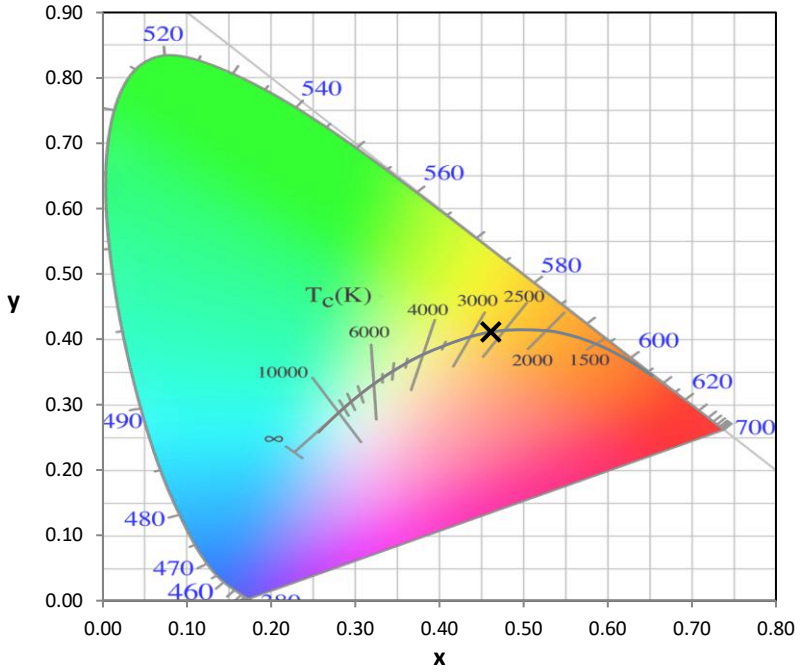
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.1

REPORT NUMBER: SP1-2509-539-6

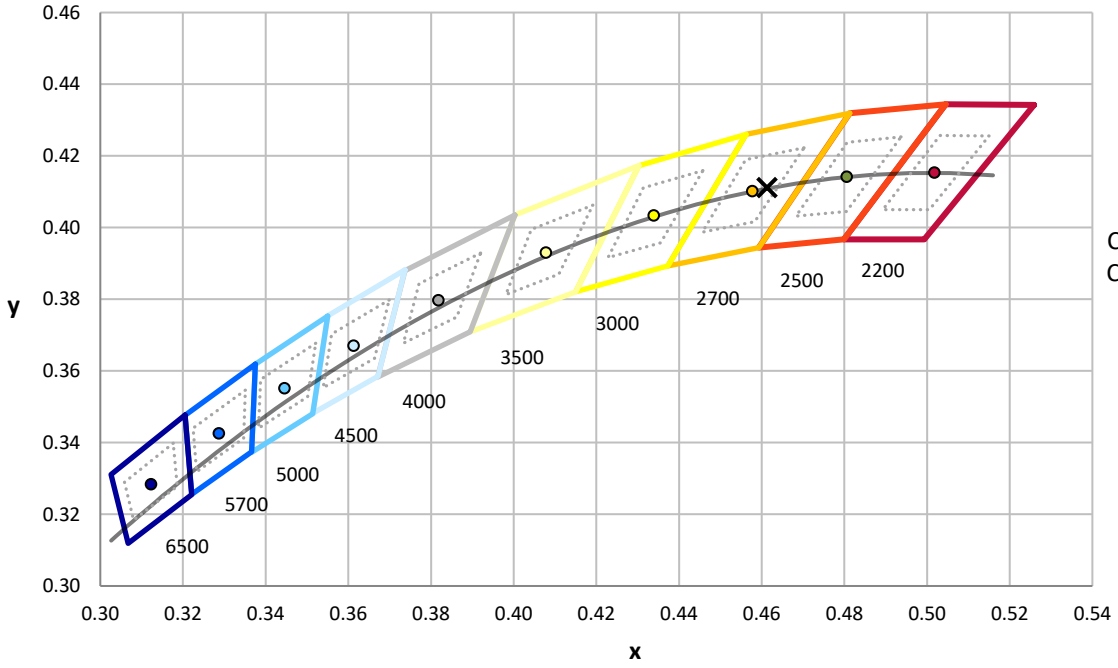
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2509-539-6

CIE 1931 Chromaticity Diagram



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

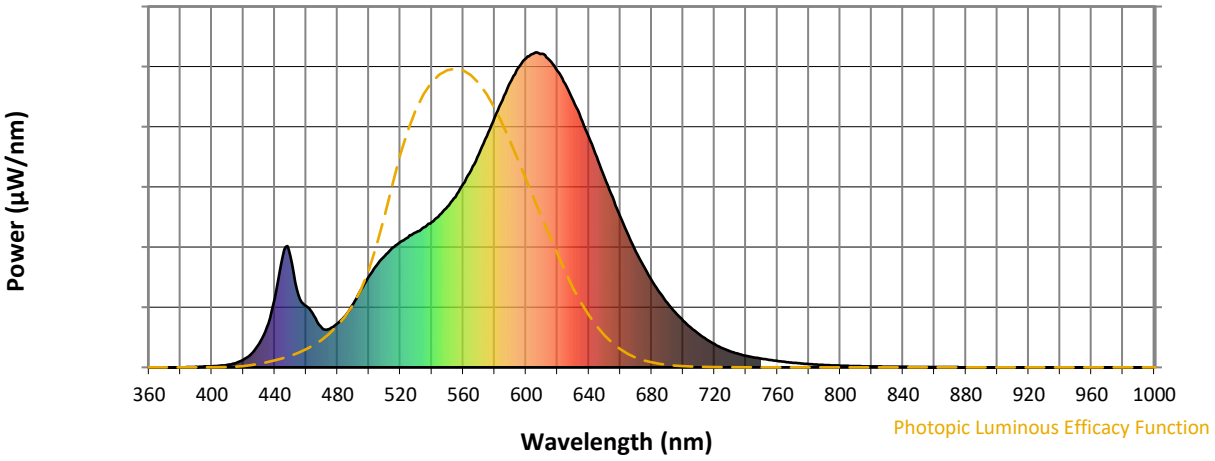


CCT = 2685K
CIE x = 0.4613
CIE y = 0.4112
Duv = 0.0001

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2509-539-6

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	202	NR	620	941	NR	750	28	NR	880	0	NR
365	0	NR	495	247	NR	625	900	NR	755	24	NR	885	0	NR
370	0	NR	500	290	NR	630	847	NR	760	20	NR	890	0	NR
375	0	NR	505	324	NR	635	791	NR	765	17	NR	895	0	NR
380	0	NR	510	354	NR	640	730	NR	770	15	NR	900	0	NR
385	1	NR	515	380	NR	645	668	NR	775	13	NR	905	0	NR
390	2	NR	520	398	NR	650	602	NR	780	11	NR	910	0	NR
395	3	NR	525	413	NR	655	541	NR	785	9	NR	915	0	NR
400	3	NR	530	428	NR	660	478	NR	790	8	NR	920	0	NR
405	5	NR	535	445	NR	665	421	NR	795	6	NR	925	0	NR
410	8	NR	540	461	NR	670	367	NR	800	5	NR	930	0	NR
415	14	NR	545	485	NR	675	320	NR	805	5	NR	935	0	NR
420	24	NR	550	510	NR	680	277	NR	810	4	NR	940	0	NR
425	43	NR	555	541	NR	685	238	NR	815	3	NR	945	0	NR
430	74	NR	560	582	NR	690	205	NR	820	3	NR	950	0	NR
435	128	NR	565	626	NR	695	175	NR	825	3	NR	955	0	NR
440	218	NR	570	677	NR	700	148	NR	830	2	NR	960	0	NR
445	352	NR	575	734	NR	705	126	NR	835	2	NR	965	0	NR
450	354	NR	580	793	NR	710	106	NR	840	2	NR	970	0	NR
455	230	NR	585	849	NR	715	89	NR	845	1	NR	975	0	NR
460	195	NR	590	907	NR	720	74	NR	850	1	NR	980	0	NR
465	164	NR	595	951	NR	725	61	NR	855	1	NR	985	0	NR
470	125	NR	600	981	NR	730	51	NR	860	1	NR	990	0	NR
475	122	NR	605	997	NR	735	43	NR	865	1	NR	995	0	NR
480	140	NR	610	996	NR	740	37	NR	870	1	NR	1000	0	NR
485	164	NR	615	976	NR	745	32	NR	875	1	NR			

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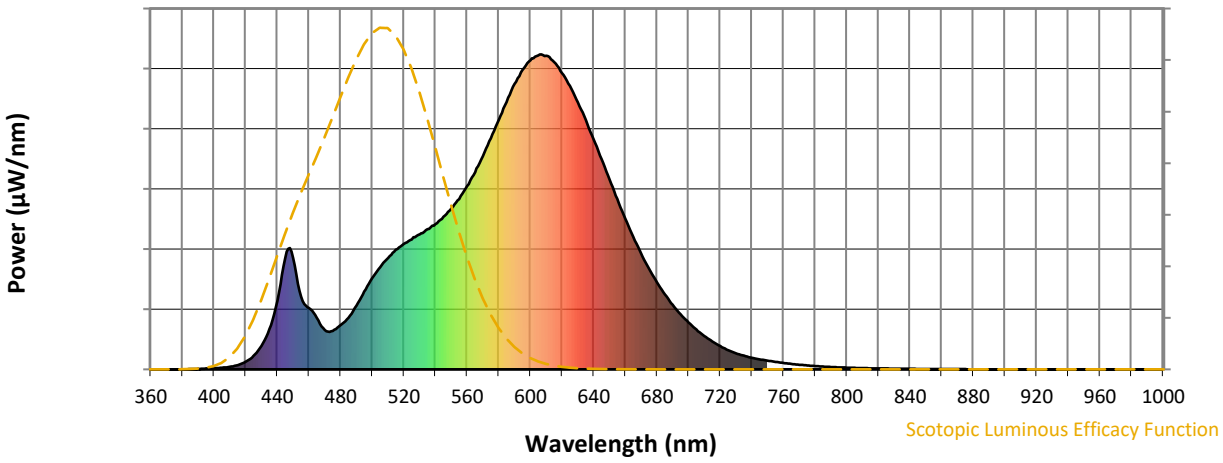
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.22**

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	202	NR	620	941	NR	750	28	NR	880	0	NR
365	0	NR	495	247	NR	625	900	NR	755	24	NR	885	0	NR
370	0	NR	500	290	NR	630	847	NR	760	20	NR	890	0	NR
375	0	NR	505	324	NR	635	791	NR	765	17	NR	895	0	NR
380	0	NR	510	354	NR	640	730	NR	770	15	NR	900	0	NR
385	1	NR	515	380	NR	645	668	NR	775	13	NR	905	0	NR
390	2	NR	520	398	NR	650	602	NR	780	11	NR	910	0	NR
395	3	NR	525	413	NR	655	541	NR	785	9	NR	915	0	NR
400	3	NR	530	428	NR	660	478	NR	790	8	NR	920	0	NR
405	5	NR	535	445	NR	665	421	NR	795	6	NR	925	0	NR
410	8	NR	540	461	NR	670	367	NR	800	5	NR	930	0	NR
415	14	NR	545	485	NR	675	320	NR	805	5	NR	935	0	NR
420	24	NR	550	510	NR	680	277	NR	810	4	NR	940	0	NR
425	43	NR	555	541	NR	685	238	NR	815	3	NR	945	0	NR
430	74	NR	560	582	NR	690	205	NR	820	3	NR	950	0	NR
435	128	NR	565	626	NR	695	175	NR	825	3	NR	955	0	NR
440	218	NR	570	677	NR	700	148	NR	830	2	NR	960	0	NR
445	352	NR	575	734	NR	705	126	NR	835	2	NR	965	0	NR
450	354	NR	580	793	NR	710	106	NR	840	2	NR	970	0	NR
455	230	NR	585	849	NR	715	89	NR	845	1	NR	975	0	NR
460	195	NR	590	907	NR	720	74	NR	850	1	NR	980	0	NR
465	164	NR	595	951	NR	725	61	NR	855	1	NR	985	0	NR
470	125	NR	600	981	NR	730	51	NR	860	1	NR	990	0	NR
475	122	NR	605	997	NR	735	43	NR	865	1	NR	995	0	NR
480	140	NR	610	996	NR	740	37	NR	870	1	NR	1000	0	NR
485	164	NR	615	976	NR	745	32	NR	875	1	NR			

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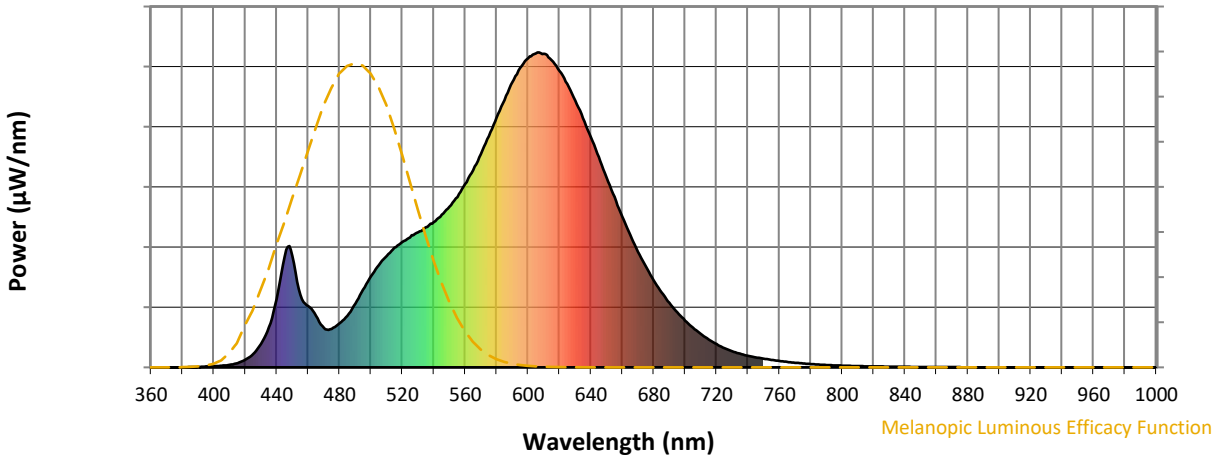
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.26**

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	202	NR	620	941	NR	750	28	NR	880	0	NR
365	0	NR	495	247	NR	625	900	NR	755	24	NR	885	0	NR
370	0	NR	500	290	NR	630	847	NR	760	20	NR	890	0	NR
375	0	NR	505	324	NR	635	791	NR	765	17	NR	895	0	NR
380	0	NR	510	354	NR	640	730	NR	770	15	NR	900	0	NR
385	1	NR	515	380	NR	645	668	NR	775	13	NR	905	0	NR
390	2	NR	520	398	NR	650	602	NR	780	11	NR	910	0	NR
395	3	NR	525	413	NR	655	541	NR	785	9	NR	915	0	NR
400	3	NR	530	428	NR	660	478	NR	790	8	NR	920	0	NR
405	5	NR	535	445	NR	665	421	NR	795	6	NR	925	0	NR
410	8	NR	540	461	NR	670	367	NR	800	5	NR	930	0	NR
415	14	NR	545	485	NR	675	320	NR	805	5	NR	935	0	NR
420	24	NR	550	510	NR	680	277	NR	810	4	NR	940	0	NR
425	43	NR	555	541	NR	685	238	NR	815	3	NR	945	0	NR
430	74	NR	560	582	NR	690	205	NR	820	3	NR	950	0	NR
435	128	NR	565	626	NR	695	175	NR	825	3	NR	955	0	NR
440	218	NR	570	677	NR	700	148	NR	830	2	NR	960	0	NR
445	352	NR	575	734	NR	705	126	NR	835	2	NR	965	0	NR
450	354	NR	580	793	NR	710	106	NR	840	2	NR	970	0	NR
455	230	NR	585	849	NR	715	89	NR	845	1	NR	975	0	NR
460	195	NR	590	907	NR	720	74	NR	850	1	NR	980	0	NR
465	164	NR	595	951	NR	725	61	NR	855	1	NR	985	0	NR
470	125	NR	600	981	NR	730	51	NR	860	1	NR	990	0	NR
475	122	NR	605	997	NR	735	43	NR	865	1	NR	995	0	NR
480	140	NR	610	996	NR	740	37	NR	870	1	NR	1000	0	NR
485	164	NR	615	976	NR	745	32	NR	875	1	NR			

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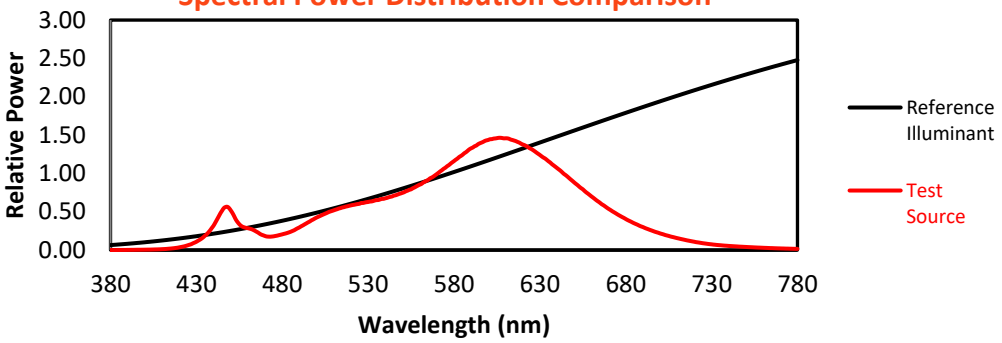
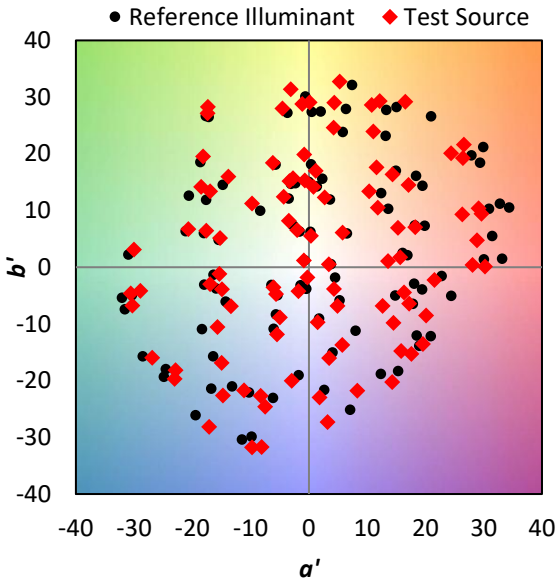
Summary

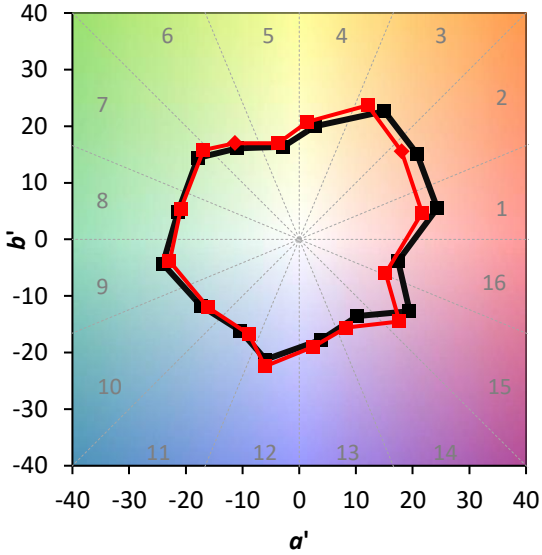
R_f = 85.8
R_g = 97.1
CIE R_a = 83.3
R_9 = 7.2

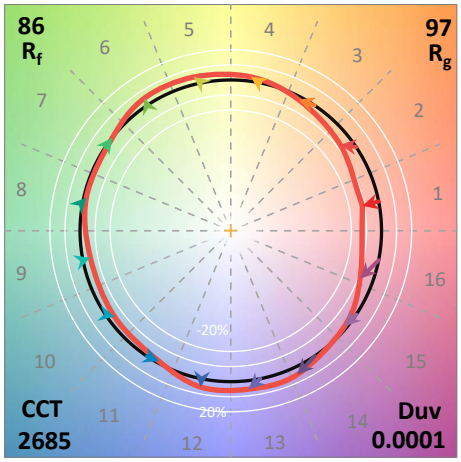
Spectral Power Distribution Comparison

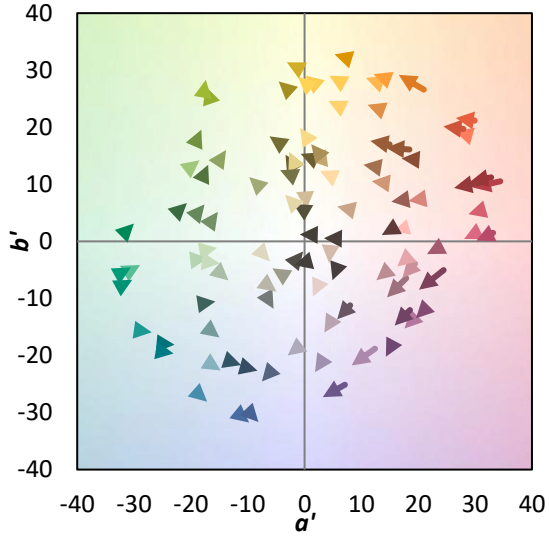


Color Vector Graphics









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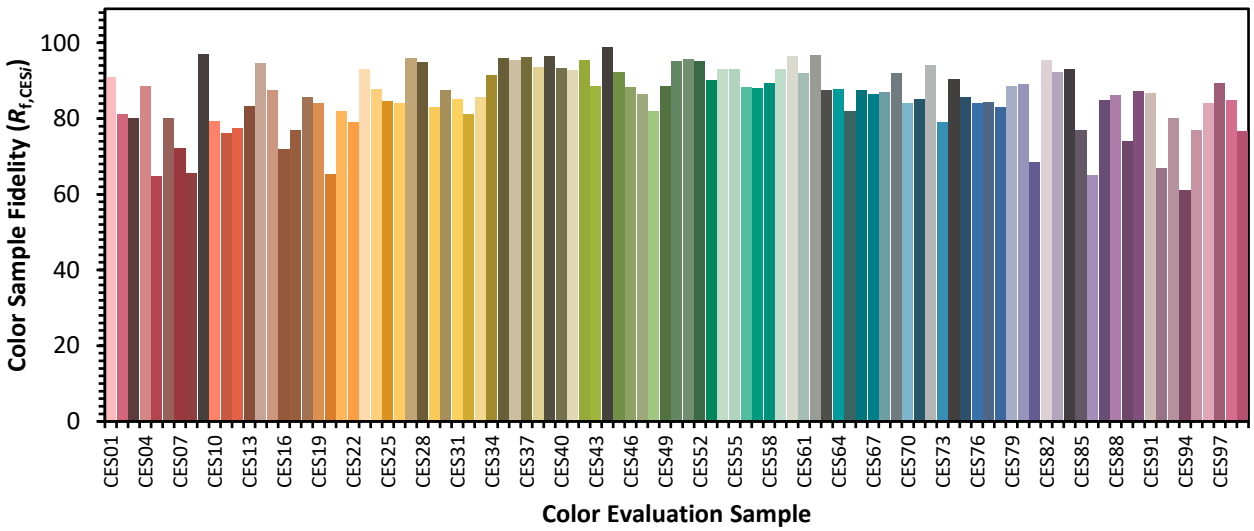
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 84	CES51 = 96	CES76 = 84
CES02 = 64	CES27 = 96	CES52 = 95	CES77 = 84
CES03 = 32	CES28 = 95	CES53 = 90	CES78 = 83
CES04 = 71	CES29 = 83	CES54 = 93	CES79 = 89
CES05 = 51	CES30 = 87	CES55 = 93	CES80 = 89
CES06 = 52	CES31 = 85	CES56 = 88	CES81 = 69
CES07 = 43	CES32 = 81	CES57 = 88	CES82 = 95
CES08 = 42	CES33 = 86	CES58 = 89	CES83 = 92
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 93
CES10 = 77	CES35 = 96	CES60 = 97	CES85 = 77
CES11 = 60	CES36 = 95	CES61 = 92	CES86 = 65
CES12 = 66	CES37 = 96	CES62 = 97	CES87 = 85
CES13 = 44	CES38 = 94	CES63 = 87	CES88 = 86
CES14 = 74	CES39 = 96	CES64 = 88	CES89 = 74
CES15 = 72	CES40 = 93	CES65 = 82	CES90 = 87
CES16 = 48	CES41 = 93	CES66 = 87	CES91 = 87
CES17 = 50	CES42 = 95	CES67 = 86	CES92 = 67
CES18 = 57	CES43 = 89	CES68 = 87	CES93 = 80
CES19 = 73	CES44 = 99	CES69 = 92	CES94 = 61
CES20 = 67	CES45 = 92	CES70 = 84	CES95 = 77
CES21 = 87	CES46 = 88	CES71 = 85	CES96 = 84
CES22 = 79	CES47 = 86	CES72 = 94	CES97 = 89
CES23 = 92	CES48 = 82	CES73 = 79	CES98 = 85
CES24 = 91	CES49 = 89	CES74 = 90	CES99 = 77
CES25 = 72	CES50 = 95	CES75 = 86	



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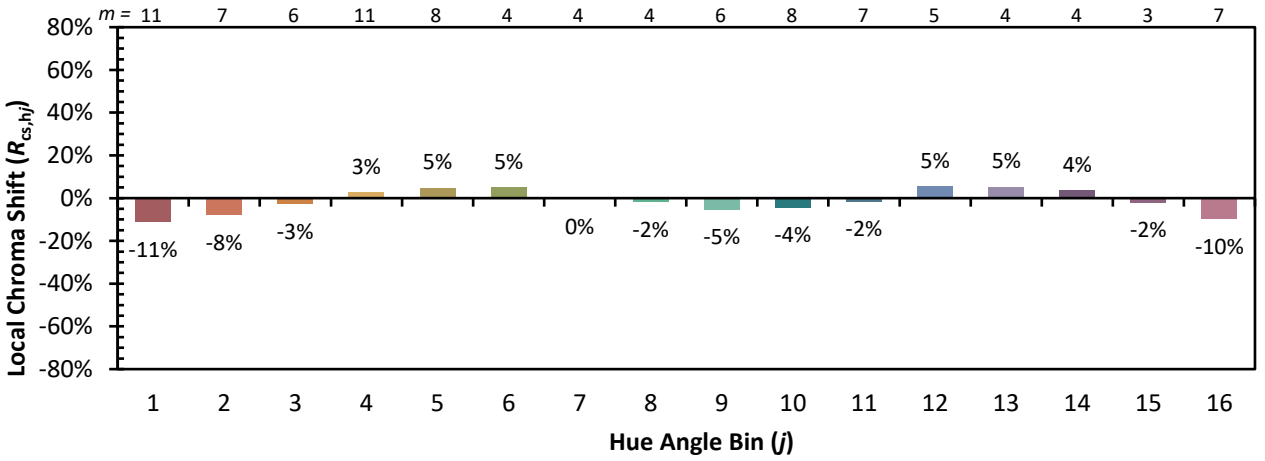
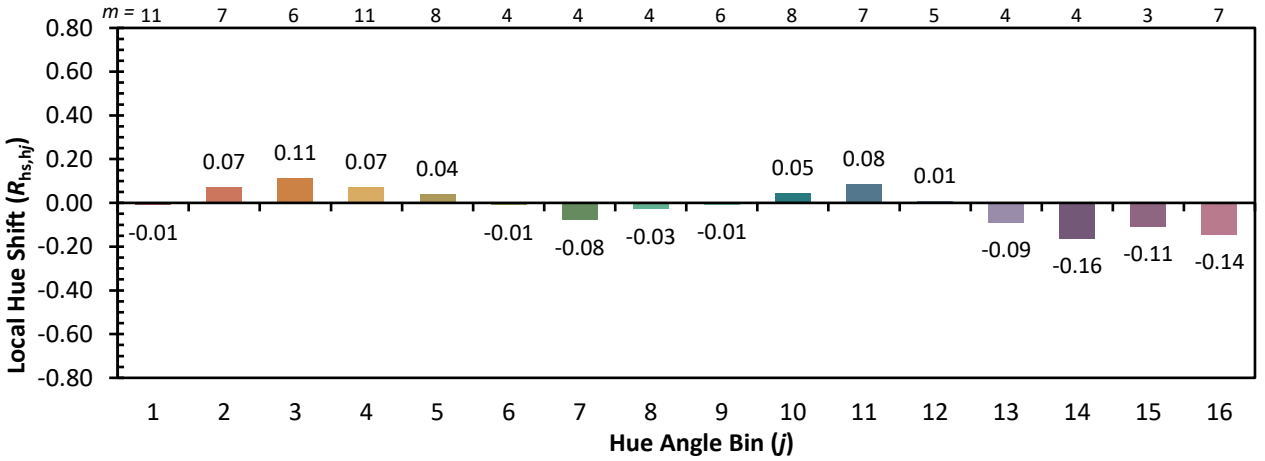
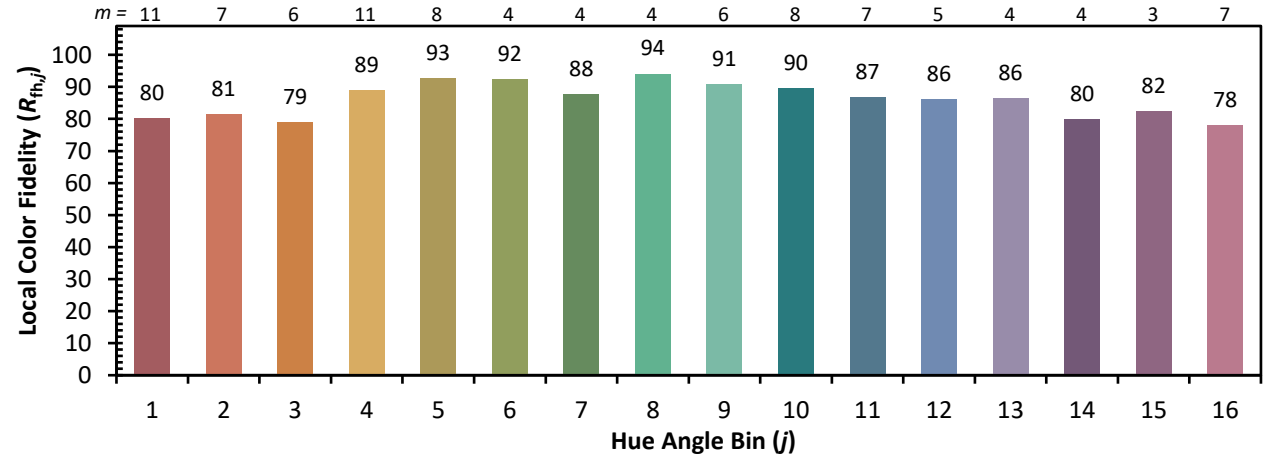
Color Rendition by Hue-Angle Bin







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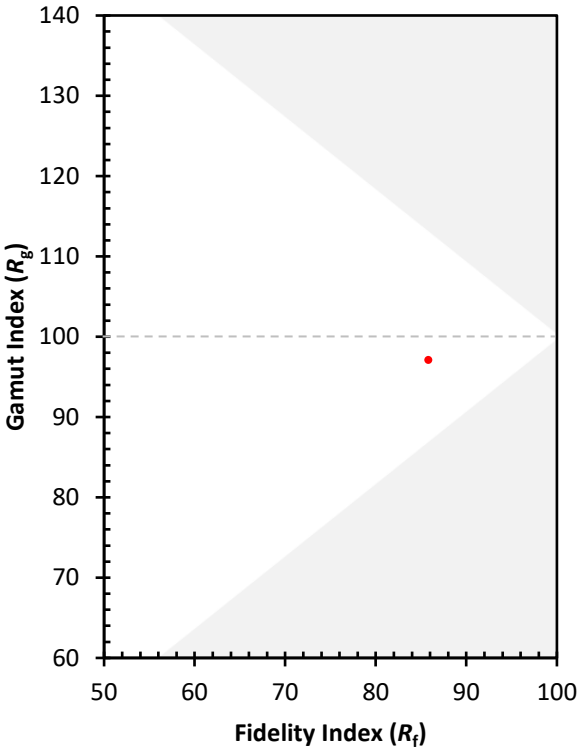
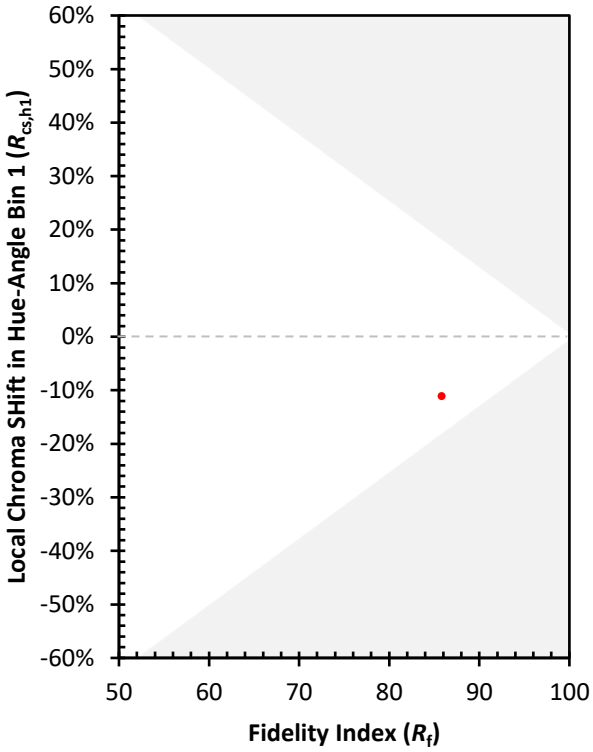
Measure Comparisons





(END OF REPORT)