

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: P980787

Luminaire Tested: **UFLD-CA2-200-722-U-66**

Issue Date: 04/10/2025



Test Information

Test Method: LM-79-08
Report Number: P980787
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-CA2-200-722-U-66
Description: UTILITY FLOOD MEDIUM SIZE 200W 70CRI 2200K LED FIXTURE NEMA 6
Light Source: (2) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24502.3 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.31' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 197
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 2.85%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

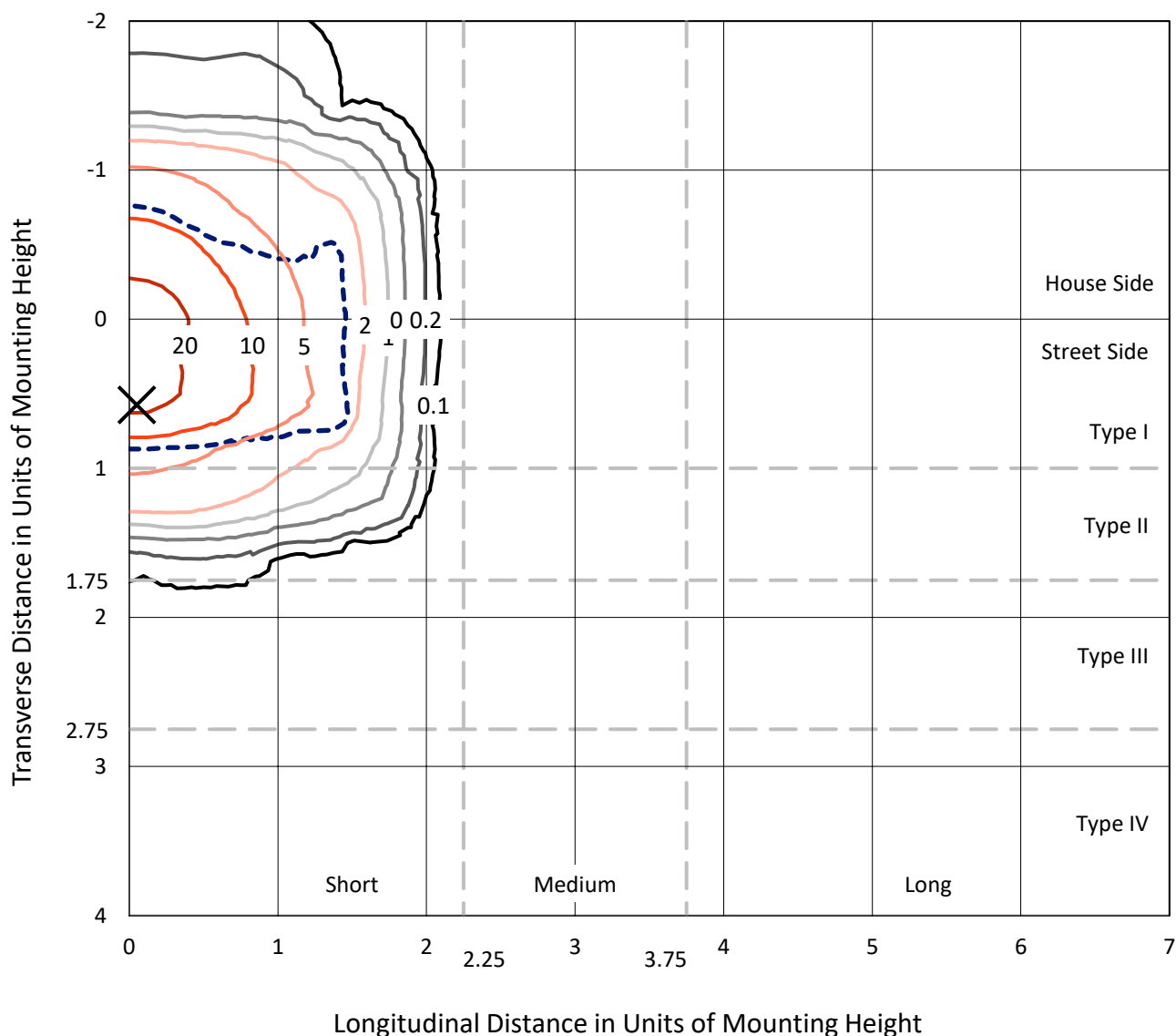
REPORT NUMBER: P980787

CATALOG NUMBER: UFLD-CA2-200-722-U-66

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

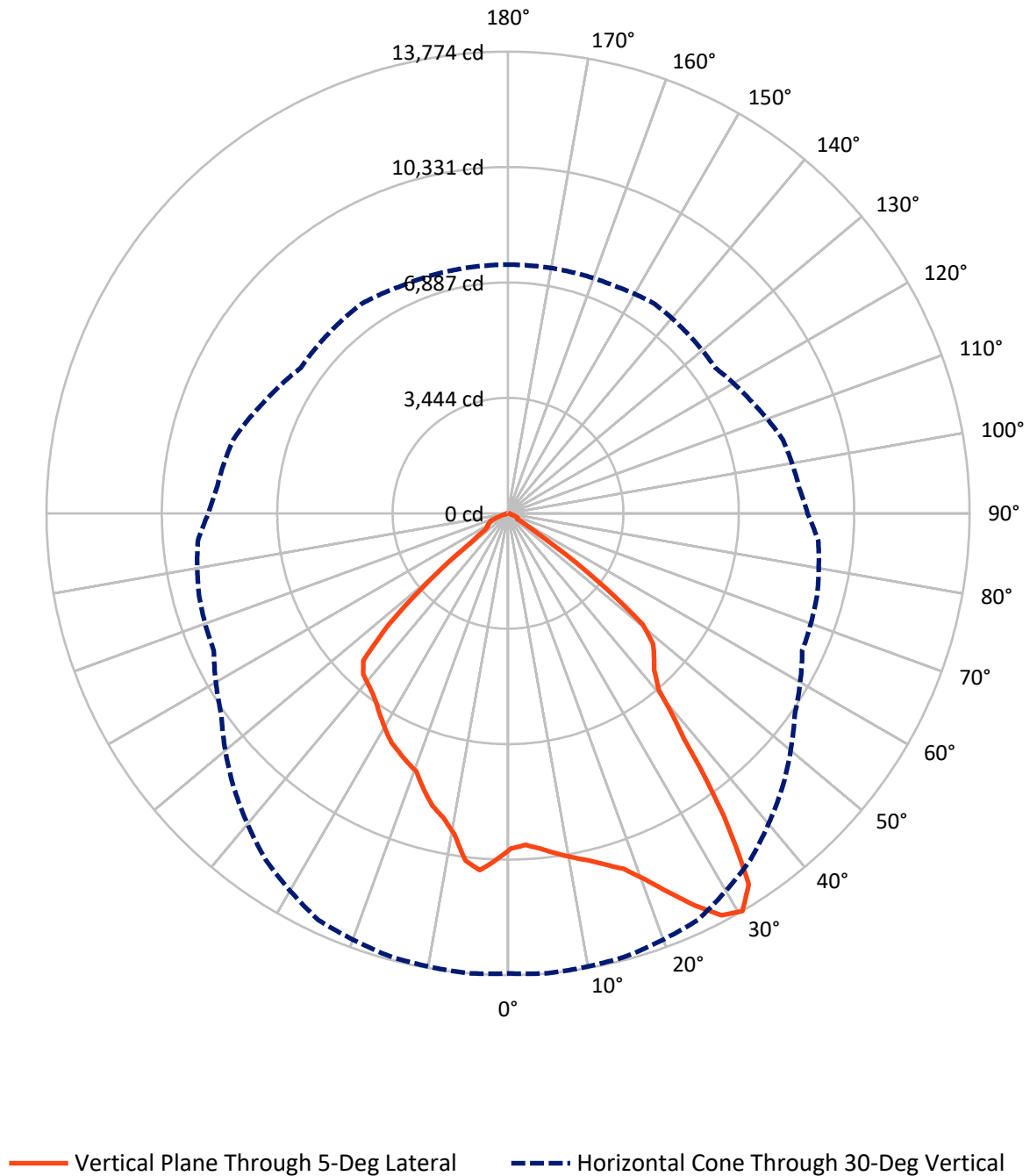


Based on 20 foot mounting height. Maximum calculated value = 25.6 fc

Type I - Short - N/A

REPORT NUMBER: P980787
CATALOG NUMBER: UFLD-CA2-200-722-U-66

Luminous Intensity Polar Plot



REPORT NUMBER: P980787

CATALOG NUMBER: UFLD-CA2-200-722-U-66

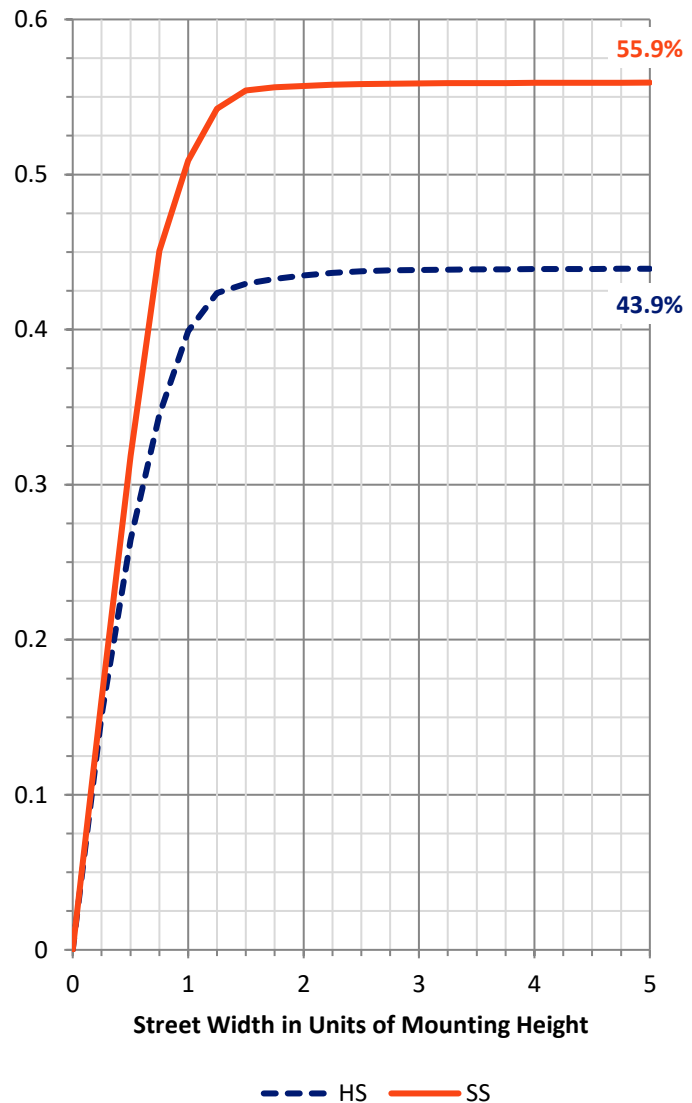
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10837.1	0.0	10837.1
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	13665.2	0.0	13665.2
	% Fixture	55.8	0.0	55.8
Total	Lumens	24502.3	0.0	24502.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.3	4.0
10°-20°	2834.1	11.6
20°-30°	4516.3	18.4
30°-40°	5646.1	23.0
40°-50°	5540.8	22.6
50°-60°	3961.3	16.2
60°-70°	876.5	3.6
70°-80°	134.6	0.5
80°-90°	14.2	0.1
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°	24502.3	100.0
0°-180°	24502.3	100.0

Coefficient of Utilization



REPORT NUMBER: P980787

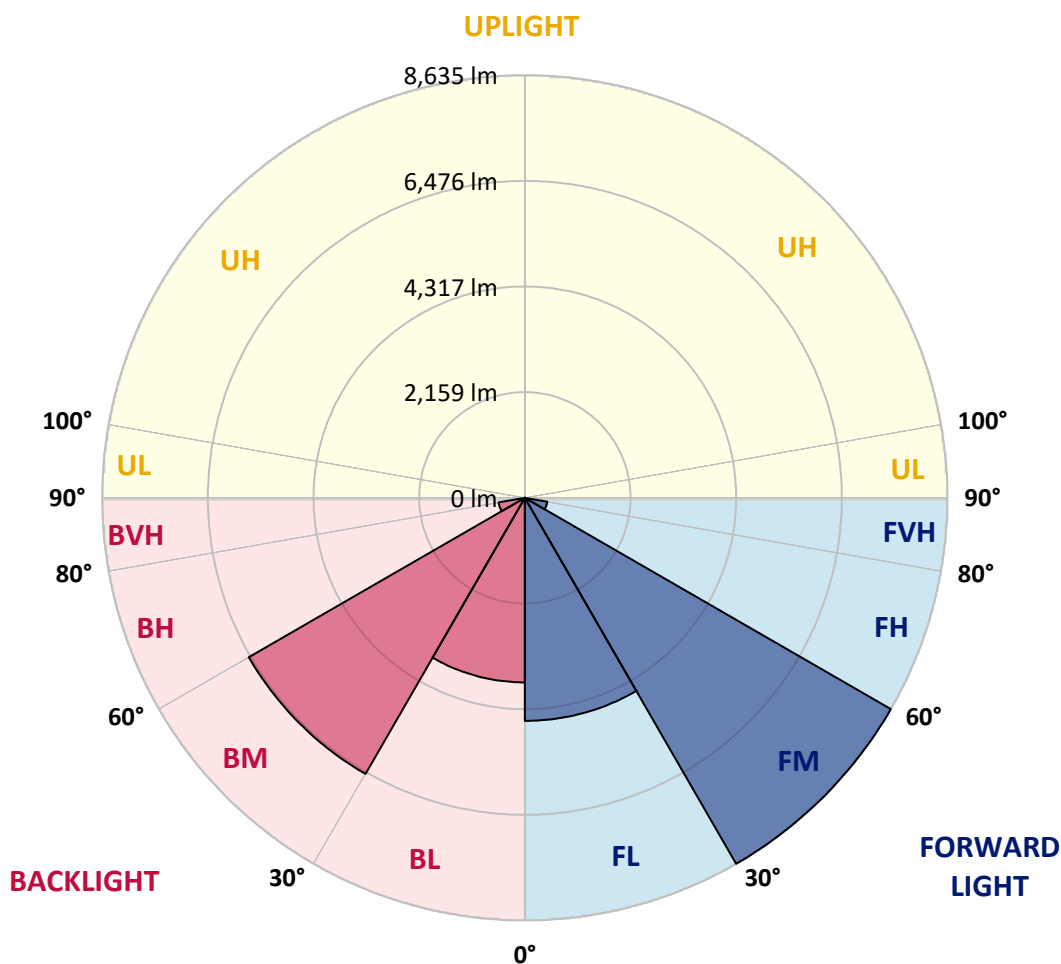
CATALOG NUMBER: UFLD-CA2-200-722-U-66

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4557.2	18.6			
FM	(30°-60°)	8634.6	35.2			
FH	(60°-80°)	466.2	1.9			G0/660
FVH	(80°-90°)	7.2	0.0			G0/10
BL	(0°-30°)	3771.5	15.4	B4/5000		
BM	(30°-60°)	6513.6	26.6	B4/8500		
BH	(60°-80°)	544.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P980787

CATALOG NUMBER: UFLD-CA2-200-722-U-66

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0
2.5°	9889.1	9905.0	9921.0	9945.0	9977.0	9993.0	9977.0	9961.0	9953.0	9969.0	9977.0
5°	10025.0	10048.9	10056.9	10072.9	10088.9	10072.9	10064.9	10048.9	10041.0	10048.9	10072.9
7.5°	10224.8	10240.8	10232.8	10224.8	10216.8	10160.9	10104.9	10080.9	10080.9	10104.9	10168.9
10°	10400.7	10432.7	10392.7	10360.7	10304.8	10216.8	10120.9	10064.9	10080.9	10128.9	10208.8
12.5°	10624.5	10624.5	10584.6	10552.6	10424.7	10320.8	10192.8	10104.9	10104.9	10192.8	10280.8
15°	10896.4	10872.4	10856.4	10768.4	10616.5	10448.7	10288.8	10160.9	10136.9	10272.8	10328.7
17.5°	11240.1	11152.2	11112.2	10960.3	10752.5	10536.6	10320.8	10216.8	10144.9	10288.8	10224.8
20°	11711.8	11647.8	11519.9	11280.1	10856.4	10576.6	10320.8	10184.9	10128.9	10208.8	10144.9
22.5°	12319.4	12279.4	11991.6	11687.8	11128.2	10608.6	10280.8	10096.9	10080.9	10041.0	9905.0
25°	13062.8	12958.9	12663.1	12231.4	11535.9	10920.3	10272.8	9937.0	9881.1	9777.1	9537.3
27.5°	13694.4	13582.5	13222.7	12839.0	12095.5	11384.0	10336.7	9745.2	9681.2	9609.3	9313.5
30°	13726.4	13774.3	13678.4	13390.6	12615.1	11575.9	10448.7	9689.2	9545.3	9289.5	8937.7
32.5°	13078.8	13190.7	13422.6	13526.5	13006.9	11807.7	10544.6	9713.2	9449.4	8833.8	8546.0
35°	10864.4	11088.2	12039.5	12934.9	13118.8	12143.5	10624.5	9713.2	9417.4	8506.0	8282.2
37.5°	8346.1	8530.0	9337.4	10960.3	12623.1	12351.3	10800.4	9657.2	9377.4	8530.0	8226.2
40°	6819.2	6923.1	7274.9	8378.1	10880.4	12007.6	10976.3	9721.2	9257.5	8546.0	8258.2
42.5°	6403.5	6395.5	6323.6	6731.3	8298.2	11000.3	11096.2	9881.1	9057.6	8442.1	8202.2
45°	6123.7	6107.7	6043.8	6123.7	6563.4	9001.7	11008.3	10168.9	8809.8	8074.3	7914.4
47.5°	5819.9	5827.9	5803.9	5835.9	5756.0	6835.2	10512.6	10288.8	8386.1	7458.8	7402.8
50°	5092.4	5212.3	5532.1	5564.1	5356.2	5516.1	9001.7	10232.8	8082.3	7282.9	7234.9
52.5°	3165.8	3357.6	4301.0	5100.4	4980.5	4980.5	6867.2	10312.8	7538.7	7218.9	7250.9
55°	1119.2	1263.1	2302.4	3509.5	4460.9	4548.8	5428.2	9177.6	7474.8	7330.9	7362.8
57.5°	279.8	343.8	703.5	1518.9	3005.9	4125.1	4852.6	7578.7	5676.0	5476.2	5556.1
60°	327.8	319.8	439.7	487.7	1167.2	3261.7	4372.9	5116.4	3661.4	3429.6	3469.6
62.5°	351.8	327.8	343.8	431.7	191.9	1598.9	3485.6	3045.9	1510.9	1119.2	1183.2
65°	311.8	295.8	271.8	399.7	135.9	295.8	2054.6	895.4	215.8	343.8	311.8
67.5°	207.9	215.8	223.8	319.8	127.9	127.9	271.8	223.8	151.9	311.8	271.8
70°	119.9	127.9	151.9	191.9	127.9	103.9	119.9	183.9	127.9	311.8	271.8
72.5°	71.9	71.9	71.9	79.9	127.9	87.9	79.9	151.9	111.9	287.8	271.8
75°	56.0	56.0	56.0	48.0	111.9	56.0	56.0	119.9	95.9	207.9	207.9
77.5°	48.0	48.0	48.0	40.0	64.0	48.0	48.0	87.9	87.9	103.9	119.9
80°	32.0	32.0	32.0	32.0	40.0	40.0	32.0	48.0	40.0	48.0	56.0
82.5°	16.0	24.0	24.0	16.0	24.0	24.0	24.0	32.0	24.0	32.0	32.0
85°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	16.0	8.0	8.0	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P980787

CATALOG NUMBER: UFLD-CA2-200-722-U-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0	10001.0
2.5°	9993.0	10033.0	10088.9	10176.9	10208.8	10264.8	10312.8	10352.7	10352.7	10336.7
5°	10120.9	10232.8	10384.7	10520.6	10568.6	10624.5	10648.5	10688.5	10680.5	10672.5
7.5°	10232.8	10408.7	10568.6	10664.5	10648.5	10576.6	10528.6	10464.7	10440.7	10456.7
10°	10320.8	10480.6	10552.6	10488.6	10296.8	10128.9	9913.0	9769.1	9697.2	9721.2
12.5°	10352.7	10408.7	10344.7	9993.0	9753.2	9593.3	9417.4	9321.5	9281.5	9289.5
15°	10360.7	10232.8	9881.1	9617.2	9441.4	9241.5	9097.6	9009.7	9009.7	9017.7
17.5°	10192.8	9881.1	9577.3	9377.4	9129.6	8921.7	8841.8	8809.8	8610.0	8641.9
20°	10041.0	9593.3	9425.4	9113.6	8817.8	8681.9	8218.2	8170.3	8178.3	8186.3
22.5°	9721.2	9385.4	9233.5	8825.8	8490.0	8114.3	8050.3	8002.4	8010.4	8010.4
25°	9281.5	9089.6	8881.8	8458.1	8050.3	7978.4	7930.4	7866.5	7834.5	7842.5
27.5°	9033.7	8793.8	8410.1	8050.3	7786.5	7818.5	7762.6	7666.6	7666.6	7674.6
30°	8721.9	8490.0	7978.4	7554.7	7578.7	7626.6	7490.7	7442.8	7418.8	7418.8
32.5°	8338.1	8018.4	7570.7	7171.0	7314.9	7298.9	7131.0	7147.0	7163.0	7147.0
35°	8050.3	7634.6	7258.9	7043.1	6987.1	6923.1	6835.2	6891.2	6915.1	6899.2
37.5°	7978.4	7482.7	7091.0	6939.1	6723.3	6603.4	6627.3	6683.3	6715.3	6707.3
40°	7954.4	7330.9	6947.1	6787.2	6499.4	6395.5	6427.5	6539.4	6579.4	6571.4
42.5°	7922.4	7226.9	6859.2	6667.3	6267.6	6195.7	6347.5	6451.5	6459.5	6451.5
45°	7754.6	7115.0	6803.2	6419.5	5915.8	6003.8	6195.7	6251.6	6155.7	6115.7
47.5°	7362.8	6907.2	6635.3	6115.7	5628.0	5795.9	5819.9	5212.3	4860.6	4780.6
50°	7250.9	6915.1	6443.5	5756.0	5452.2	5620.1	4572.8	3493.5	3053.9	2965.9
52.5°	7218.9	6835.2	6515.4	5380.2	5388.2	4740.7	2886.0	1710.8	1375.0	1311.1
55°	7298.9	7187.0	6635.3	5156.4	5012.5	3085.8	1343.1	807.4	831.4	807.4
57.5°	5508.1	6011.8	6779.2	4804.6	3661.4	1487.0	847.4	783.5	727.5	711.5
60°	3437.6	3917.3	4964.5	4133.1	1878.7	887.4	863.4	727.5	703.5	695.5
62.5°	1135.2	1742.8	2846.0	2718.1	519.6	879.4	871.4	647.5	647.5	647.5
65°	287.8	295.8	783.5	935.3	383.7	783.5	831.4	607.6	591.6	615.6
67.5°	247.8	223.8	415.7	367.7	319.8	543.6	727.5	583.6	551.6	551.6
70°	247.8	263.8	407.7	343.8	199.9	295.8	527.6	359.7	319.8	295.8
72.5°	231.8	255.8	359.7	311.8	135.9	143.9	231.8	119.9	111.9	95.9
75°	199.9	207.9	279.8	279.8	143.9	71.9	95.9	79.9	79.9	71.9
77.5°	135.9	103.9	159.9	199.9	103.9	48.0	40.0	40.0	40.0	32.0
80°	71.9	40.0	40.0	32.0	40.0	40.0	24.0	32.0	32.0	24.0
82.5°	40.0	24.0	24.0	16.0	16.0	24.0	16.0	16.0	16.0	16.0
85°	16.0	16.0	8.0	8.0	8.0	16.0	8.0	8.0	8.0	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0
90°	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: SP1-2501-336-2

Test Date: 04/15/2025

Luminaire Tested: UFLD-L-CA4-390-722-U-66

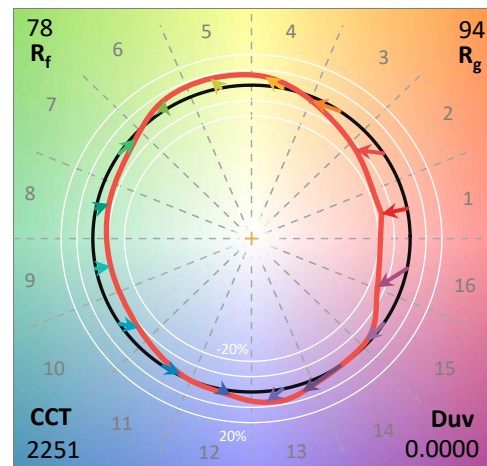
Data in this report applies to families of products including UFLD-L-CA4-390-722-U-66

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-336-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 04/15/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **UFLD-L-CA4-390-722-U-66**
 Description: UTILITY FLOOD 390W NEMA6

Spectral Parameters

CCT (K):	2251	CRI (Ra):	72.2		
CIE u':	0.2867	R1:	69.6	R9:	-29.9
CIE v':	0.5353	R2:	87.7	R10:	75.4
Duv:	0.0000	R3:	89.3	R11:	64.0
CIE x:	0.5006	R4:	66.4	R12:	72.9
CIE y:	0.4153	R5:	69.8	R13:	73.2
CIE z:	0.0841	R6:	87.2	R14:	94.5
Peak Wavelength (nm):	606	R7:	71.5	R15:	59.5
Dominant Wavelength (nm):	586	R8:	36.0		
Purity:	74.9277				
Rf:	78.1				
Rg:	93.7				



Test Conditions

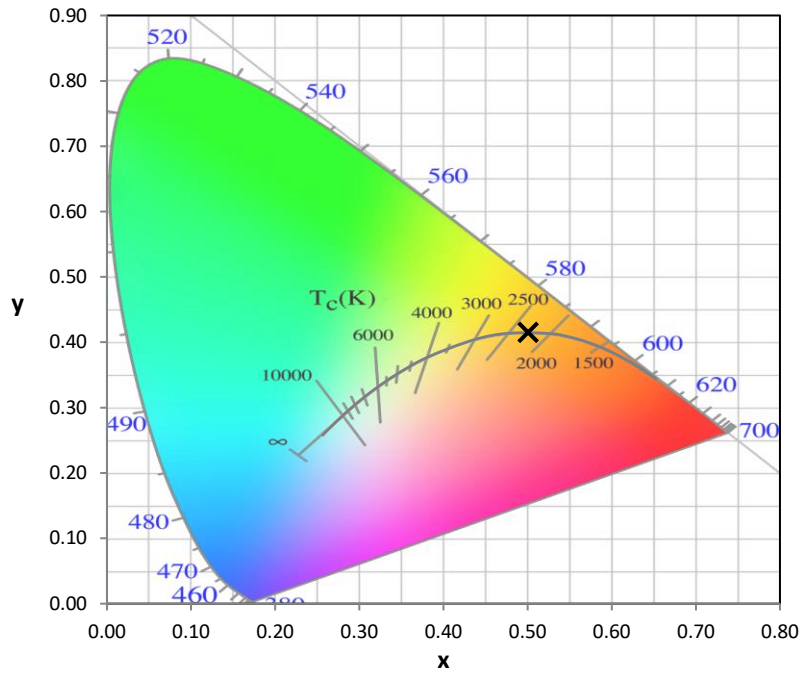
Stabilization Time: 68M
 Operation Time: 2H 8M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2501-336-2

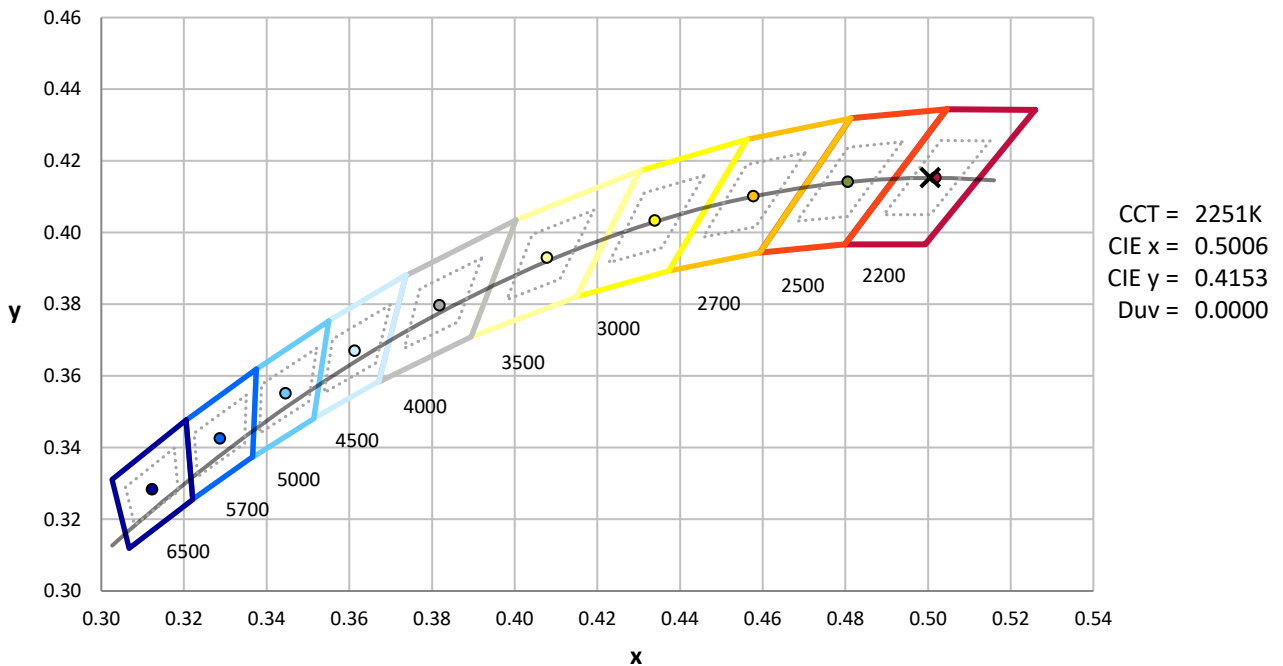
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-336-2

CIE 1931 Chromaticity Diagram



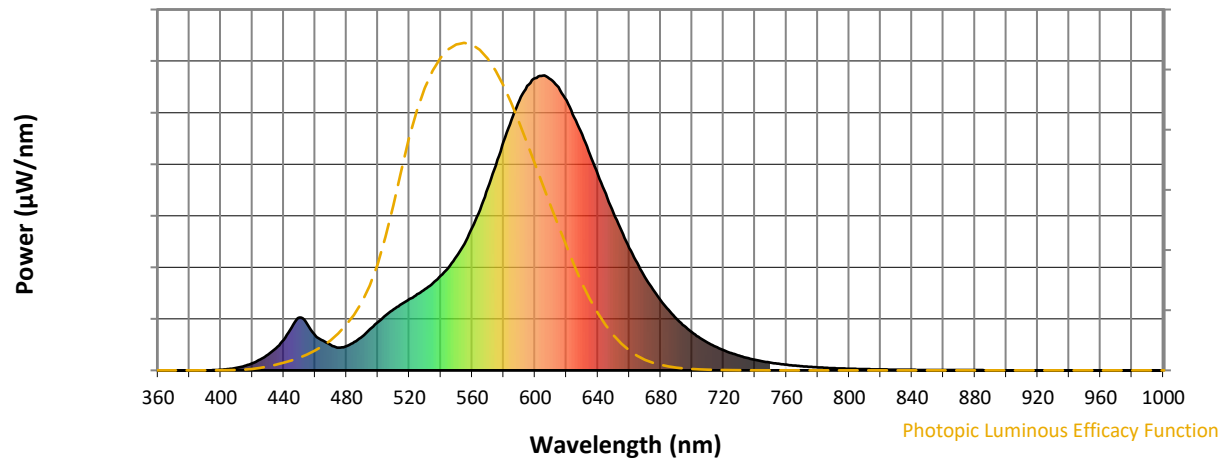
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-336-2

Photopic Flux vs. Wavelength

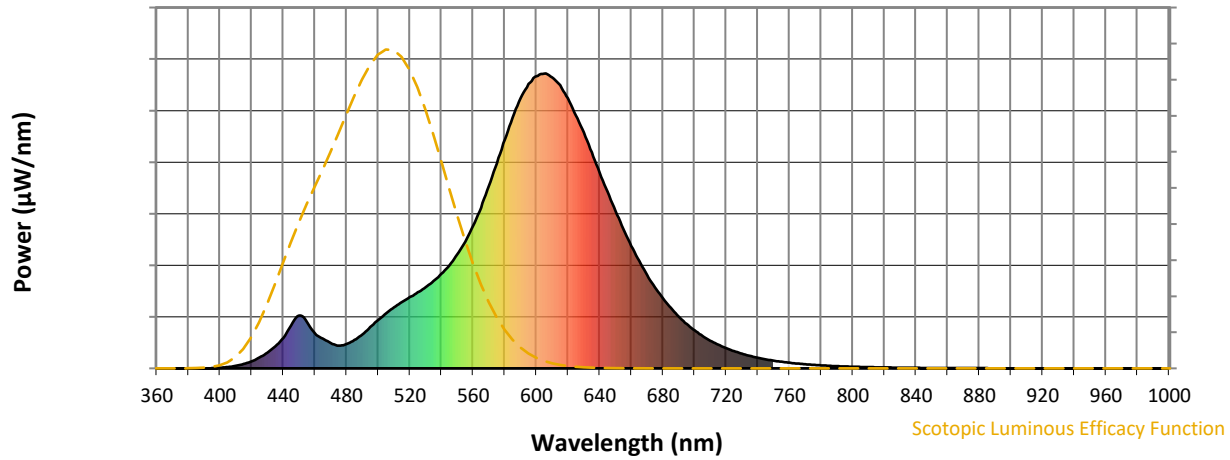


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	115	NR	620	915	NR	750	26	NR	880	1	NR
365	0	NR	495	140	NR	625	857	NR	755	22	NR	885	1	NR
370	0	NR	500	163	NR	630	799	NR	760	19	NR	890	1	NR
375	0	NR	505	186	NR	635	732	NR	765	16	NR	895	0	NR
380	0	NR	510	207	NR	640	664	NR	770	14	NR	900	0	NR
385	0	NR	515	225	NR	645	599	NR	775	12	NR	905	0	NR
390	0	NR	520	242	NR	650	533	NR	780	10	NR	910	0	NR
395	1	NR	525	258	NR	655	473	NR	785	9	NR	915	0	NR
400	2	NR	530	275	NR	660	415	NR	790	7	NR	920	0	NR
405	4	NR	535	296	NR	665	364	NR	795	6	NR	925	0	NR
410	9	NR	540	321	NR	670	316	NR	800	6	NR	930	0	NR
415	15	NR	545	350	NR	675	274	NR	805	5	NR	935	0	NR
420	24	NR	550	386	NR	680	238	NR	810	4	NR	940	0	NR
425	37	NR	555	428	NR	685	205	NR	815	4	NR	945	0	NR
430	54	NR	560	484	NR	690	176	NR	820	3	NR	950	0	NR
435	75	NR	565	545	NR	695	151	NR	825	3	NR	955	0	NR
440	103	NR	570	618	NR	700	129	NR	830	2	NR	960	0	NR
445	146	NR	575	695	NR	705	110	NR	835	2	NR	965	0	NR
450	179	NR	580	776	NR	710	94	NR	840	2	NR	970	0	NR
455	157	NR	585	850	NR	715	80	NR	845	2	NR	975	0	NR
460	119	NR	590	916	NR	720	68	NR	850	1	NR	980	0	NR
465	101	NR	595	964	NR	725	58	NR	855	1	NR	985	0	NR
470	86	NR	600	991	NR	730	50	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	83	NR	610	986	NR	740	36	NR	870	1	NR	1000	0	NR
485	96	NR	615	960	NR	745	30	NR	875	1	NR			

REPORT NUMBER: SP1-2501-336-2

Scotopic Flux vs. Wavelength



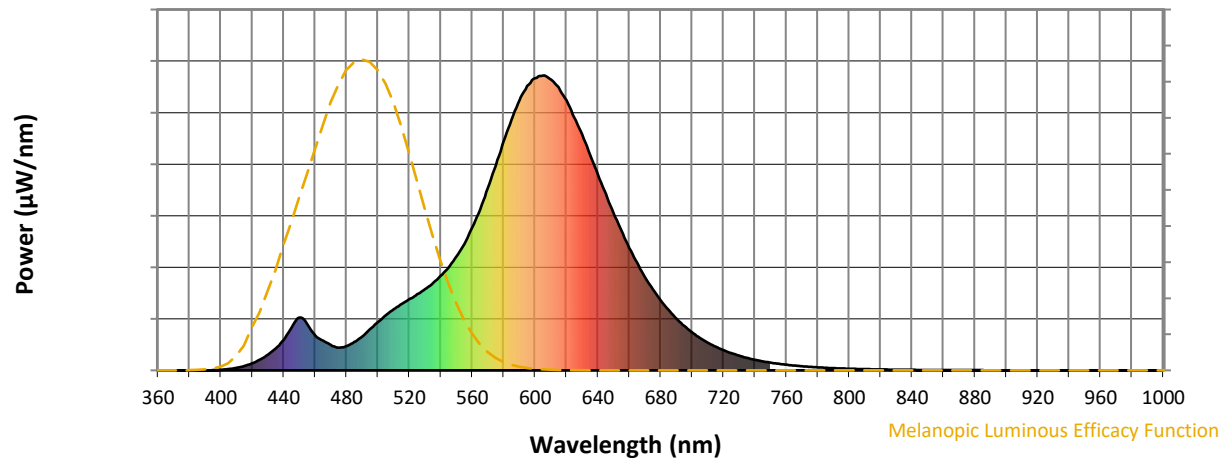
Scotopic Lumens: NR

S/P: 0.94

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	115	NR	620	915	NR	750	26	NR	880	1	NR
365	0	NR	495	140	NR	625	857	NR	755	22	NR	885	1	NR
370	0	NR	500	163	NR	630	799	NR	760	19	NR	890	1	NR
375	0	NR	505	186	NR	635	732	NR	765	16	NR	895	0	NR
380	0	NR	510	207	NR	640	664	NR	770	14	NR	900	0	NR
385	0	NR	515	225	NR	645	599	NR	775	12	NR	905	0	NR
390	0	NR	520	242	NR	650	533	NR	780	10	NR	910	0	NR
395	1	NR	525	258	NR	655	473	NR	785	9	NR	915	0	NR
400	2	NR	530	275	NR	660	415	NR	790	7	NR	920	0	NR
405	4	NR	535	296	NR	665	364	NR	795	6	NR	925	0	NR
410	9	NR	540	321	NR	670	316	NR	800	6	NR	930	0	NR
415	15	NR	545	350	NR	675	274	NR	805	5	NR	935	0	NR
420	24	NR	550	386	NR	680	238	NR	810	4	NR	940	0	NR
425	37	NR	555	428	NR	685	205	NR	815	4	NR	945	0	NR
430	54	NR	560	484	NR	690	176	NR	820	3	NR	950	0	NR
435	75	NR	565	545	NR	695	151	NR	825	3	NR	955	0	NR
440	103	NR	570	618	NR	700	129	NR	830	2	NR	960	0	NR
445	146	NR	575	695	NR	705	110	NR	835	2	NR	965	0	NR
450	179	NR	580	776	NR	710	94	NR	840	2	NR	970	0	NR
455	157	NR	585	850	NR	715	80	NR	845	2	NR	975	0	NR
460	119	NR	590	916	NR	720	68	NR	850	1	NR	980	0	NR
465	101	NR	595	964	NR	725	58	NR	855	1	NR	985	0	NR
470	86	NR	600	991	NR	730	50	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	83	NR	610	986	NR	740	36	NR	870	1	NR	1000	0	NR
485	96	NR	615	960	NR	745	30	NR	875	1	NR			

REPORT NUMBER: SP1-2501-336-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.63

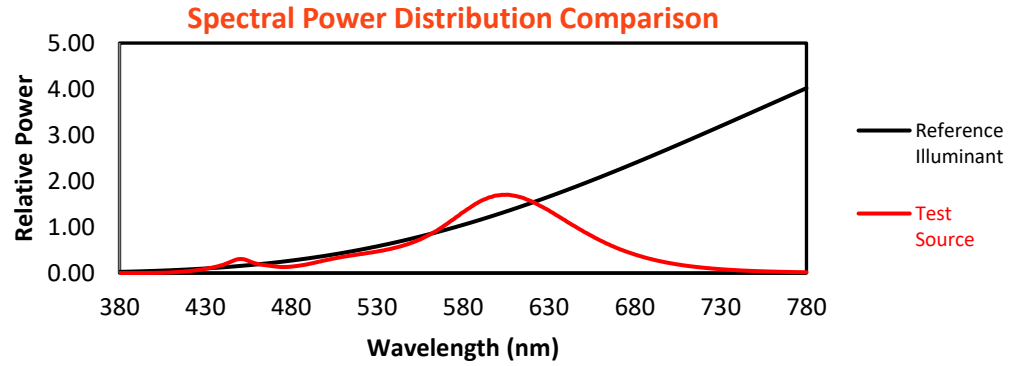
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	115	NR	620	915	NR	750	26	NR	880	1	NR
365	0	NR	495	140	NR	625	857	NR	755	22	NR	885	1	NR
370	0	NR	500	163	NR	630	799	NR	760	19	NR	890	1	NR
375	0	NR	505	186	NR	635	732	NR	765	16	NR	895	0	NR
380	0	NR	510	207	NR	640	664	NR	770	14	NR	900	0	NR
385	0	NR	515	225	NR	645	599	NR	775	12	NR	905	0	NR
390	0	NR	520	242	NR	650	533	NR	780	10	NR	910	0	NR
395	1	NR	525	258	NR	655	473	NR	785	9	NR	915	0	NR
400	2	NR	530	275	NR	660	415	NR	790	7	NR	920	0	NR
405	4	NR	535	296	NR	665	364	NR	795	6	NR	925	0	NR
410	9	NR	540	321	NR	670	316	NR	800	6	NR	930	0	NR
415	15	NR	545	350	NR	675	274	NR	805	5	NR	935	0	NR
420	24	NR	550	386	NR	680	238	NR	810	4	NR	940	0	NR
425	37	NR	555	428	NR	685	205	NR	815	4	NR	945	0	NR
430	54	NR	560	484	NR	690	176	NR	820	3	NR	950	0	NR
435	75	NR	565	545	NR	695	151	NR	825	3	NR	955	0	NR
440	103	NR	570	618	NR	700	129	NR	830	2	NR	960	0	NR
445	146	NR	575	695	NR	705	110	NR	835	2	NR	965	0	NR
450	179	NR	580	776	NR	710	94	NR	840	2	NR	970	0	NR
455	157	NR	585	850	NR	715	80	NR	845	2	NR	975	0	NR
460	119	NR	590	916	NR	720	68	NR	850	1	NR	980	0	NR
465	101	NR	595	964	NR	725	58	NR	855	1	NR	985	0	NR
470	86	NR	600	991	NR	730	50	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	83	NR	610	986	NR	740	36	NR	870	1	NR	1000	0	NR
485	96	NR	615	960	NR	745	30	NR	875	1	NR			

REPORT NUMBER: SP1-2501-336-2

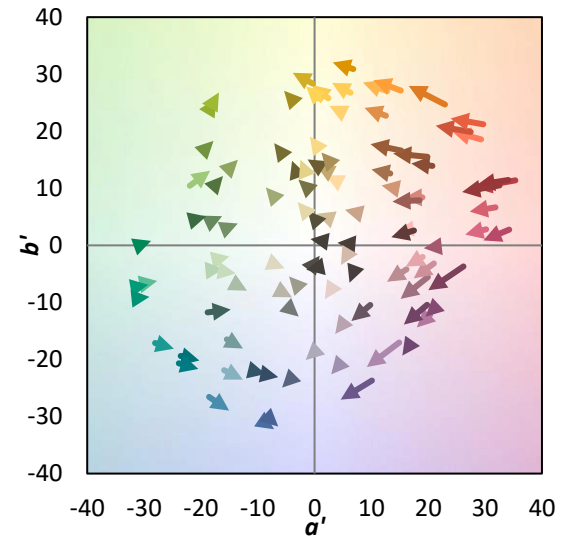
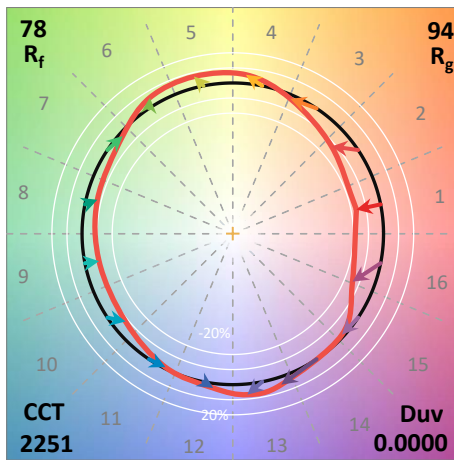
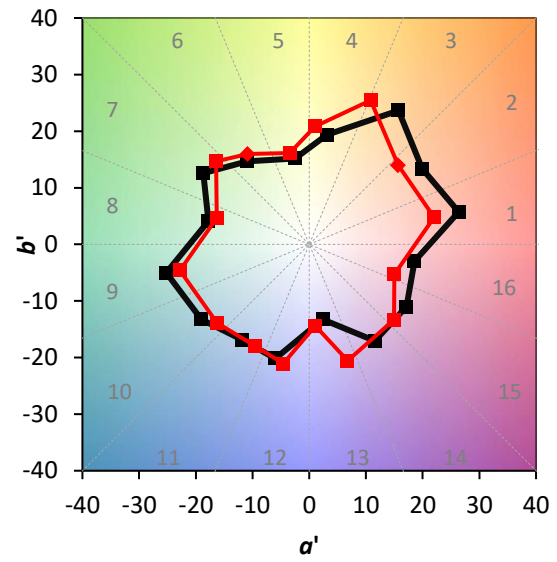
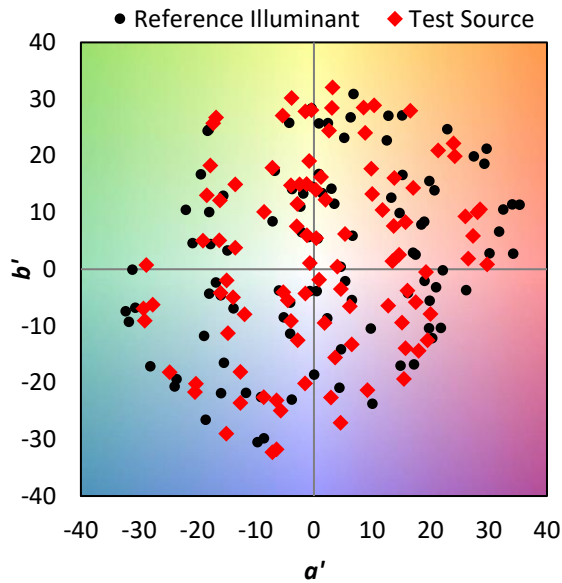
TM-30-18

Summary

$R_f = 78.1$
 $R_g = 93.7$
 $CIE R_a = 72.2$
 $R_g = -29.9$

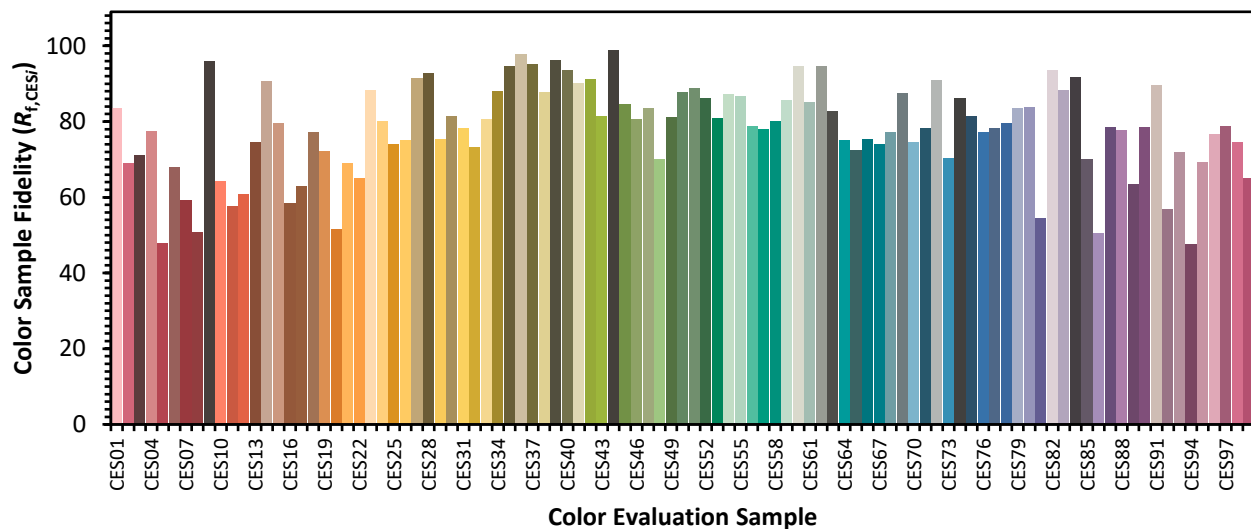


Color Vector Graphics

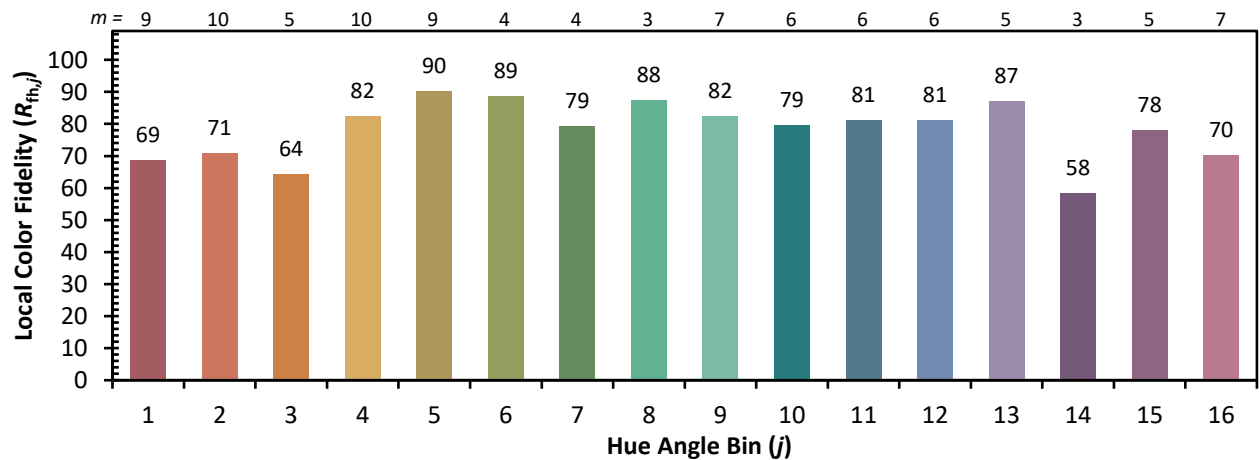
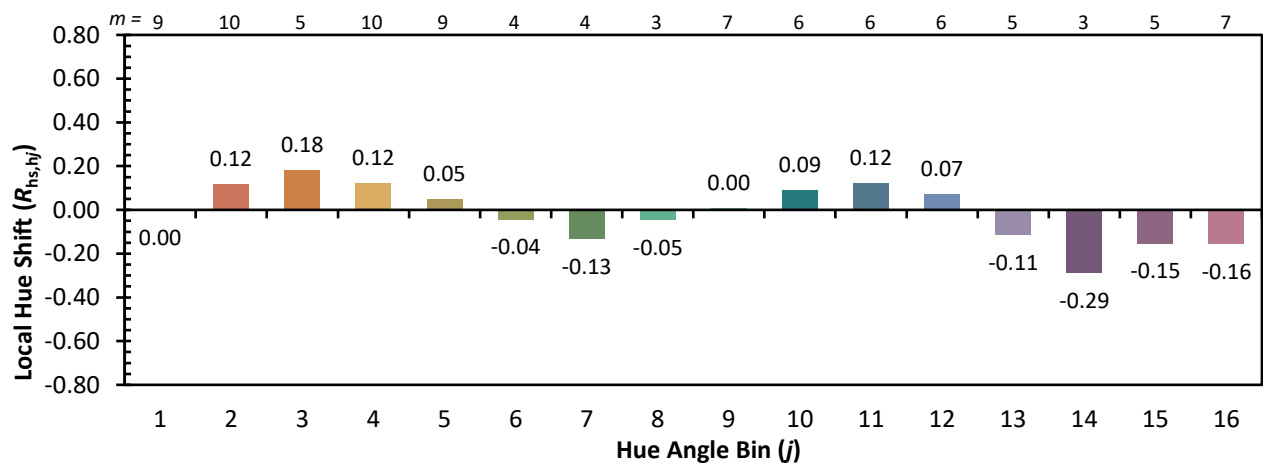
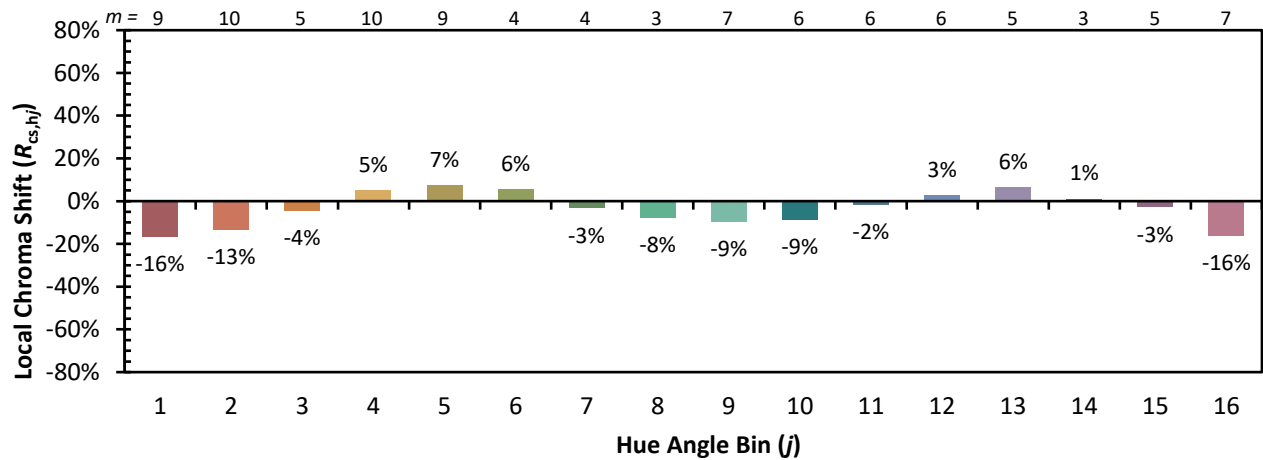


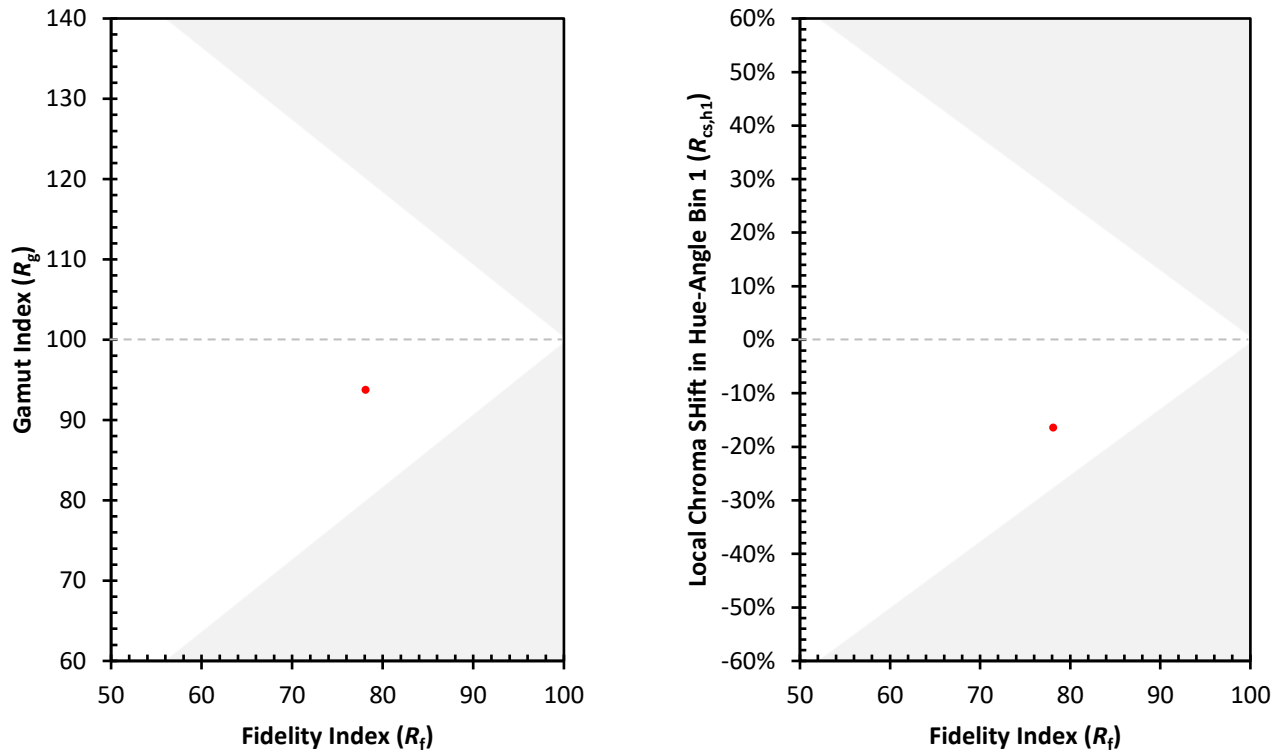
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 75	CES51 = 89	CES76 = 77
CES02 = 65	CES27 = 92	CES52 = 86	CES77 = 78
CES03 = 32	CES28 = 93	CES53 = 81	CES78 = 80
CES04 = 72	CES29 = 75	CES54 = 87	CES79 = 84
CES05 = 51	CES30 = 81	CES55 = 87	CES80 = 84
CES06 = 52	CES31 = 78	CES56 = 79	CES81 = 55
CES07 = 44	CES32 = 73	CES57 = 78	CES82 = 93
CES08 = 42	CES33 = 81	CES58 = 80	CES83 = 88
CES09 = 29	CES34 = 88	CES59 = 86	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 85	CES86 = 50
CES12 = 68	CES37 = 95	CES62 = 95	CES87 = 79
CES13 = 45	CES38 = 88	CES63 = 83	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 75	CES89 = 64
CES15 = 72	CES40 = 94	CES65 = 72	CES90 = 79
CES16 = 49	CES41 = 90	CES66 = 75	CES91 = 90
CES17 = 51	CES42 = 91	CES67 = 74	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 77	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 87	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 75	CES95 = 69
CES21 = 88	CES46 = 81	CES71 = 78	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 70	CES73 = 70	CES98 = 75
CES24 = 92	CES49 = 81	CES74 = 86	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 81	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)