

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1057312

Luminaire Tested: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057312
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-5, G2-2504-407-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
UPLIGHT 500 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

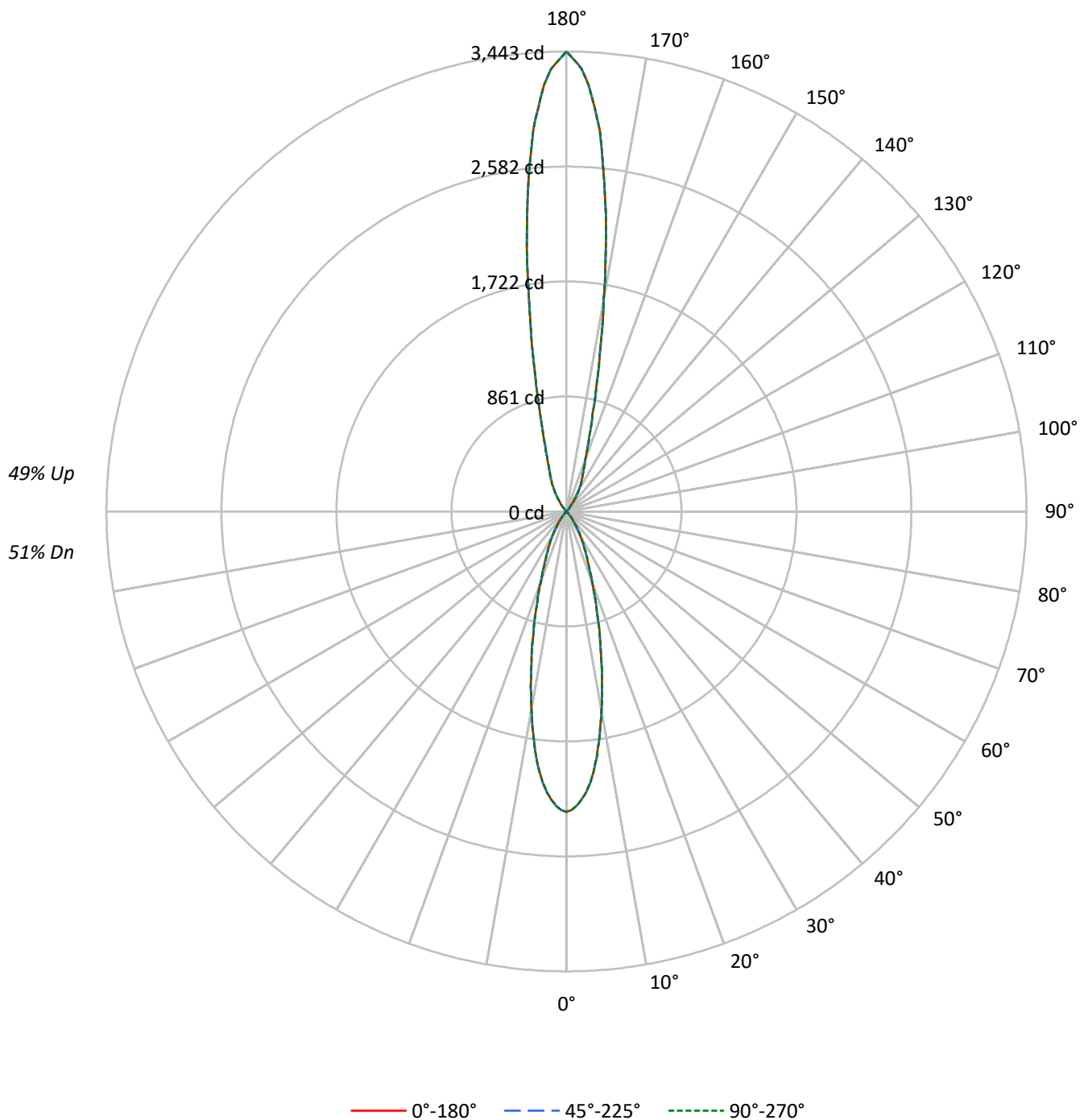
Lumens per Lamp: N/A
Luminaire Lumens: 1341.0 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1057312

CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057312

CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	101	98	95	92	93	91	88	86	78	76	75		66	65	64		55
2	95	89	85	81	88	83	80	77	72	70	68		62	60	59		53
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		51
4	84	76	70	66	78	72	67	63	63	60	57		56	53	51		48
5	79	71	65	60	74	67	62	58	60	56	53		53	50	48		47
6	75	66	60	56	70	63	57	54	56	52	50		50	48	45		45
7	71	62	56	52	67	59	54	50	53	49	47		48	45	43		43
8	68	58	53	49	64	56	51	47	51	47	44		46	43	41		41
9	65	55	50	46	61	53	48	44	48	44	42		44	41	39		40
10	62	52	47	43	58	50	45	42	46	42	40		42	39	37		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1449429	1449429	1449429
5°	1317891	1317891	1317891
10°	988477	988477	988477
15°	641934	641934	641934
20°	384515	384515	384515
25°	239691	239691	239691
30°	152171	152171	152171
35°	79456	79456	79456
40°	31798	31798	31798
45°	10754	10754	10754
50°	5614	5614	5614
55°	3483	3483	3483
60°	3222	3222	3222
65°	1830	1830	1830
70°	1130	1130	1130
75°	1494	1494	1494
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10754 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	13.2
10°-20°	265.8	19.8
20°-30°	158.9	11.8
30°-40°	66.2	4.9
40°-50°	11.7	0.9
50°-60°	3.1	0.2
60°-70°	1.4	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	1.1	0.1
120°-130°	2.2	0.2
130°-140°	9.0	0.7
140°-150°	59.6	4.4
150°-160°	129.2	9.6
160°-170°	224.5	16.7
170°-180°	230.6	17.2
0°-30°	601.8	44.9
0°-40°	668.0	49.8
0°-60°	682.9	50.9
0°-90°	684.7	51.1
90°-120°	1.3	0.1
90°-150°	72.1	5.4
90°-180°	656.0	48.9
0°-180°	1341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2249	2249	2249	2249	2249	
5°	2037	2037	2037	2037	2037	177
15°	962	962	962	962	962	266
25°	337	337	337	337	337	159
35°	101	101	101	101	101	66
45°	12	12	12	12	12	12
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	1	1	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	1	1	1	1	1
125°	2	2	2	2	2	2
135°	9	9	9	9	9	9
145°	92	92	92	92	92	60
155°	279	279	279	279	279	129
165°	758	758	758	758	758	224
175°	2863	2863	2863	2863	2863	231
180°	3443	3443	3443	3443	3443	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2249.2	2249.2	2249.2	2249.2	2249.2
1°	2234.9	2234.9	2234.9	2234.9	2234.9
2°	2203.3	2203.3	2203.3	2203.3	2203.3
3°	2161.8	2161.8	2161.8	2161.8	2161.8
4°	2107.9	2107.9	2107.9	2107.9	2107.9
5°	2037.3	2037.3	2037.3	2037.3	2037.3
6°	1953.0	1953.0	1953.0	1953.0	1953.0
7°	1852.6	1852.6	1852.6	1852.6	1852.6
8°	1742.9	1742.9	1742.9	1742.9	1742.9
9°	1627.1	1627.1	1627.1	1627.1	1627.1
10°	1510.6	1510.6	1510.6	1510.6	1510.6
11°	1392.2	1392.2	1392.2	1392.2	1392.2
12°	1279.5	1279.5	1279.5	1279.5	1279.5
13°	1168.6	1168.6	1168.6	1168.6	1168.6
14°	1062.6	1062.6	1062.6	1062.6	1062.6
15°	962.2	962.2	962.2	962.2	962.2
16°	872.5	872.5	872.5	872.5	872.5
17°	782.8	782.8	782.8	782.8	782.8
18°	702.5	702.5	702.5	702.5	702.5
19°	631.6	631.6	631.6	631.6	631.6
20°	560.7	560.7	560.7	560.7	560.7
21°	508.2	508.2	508.2	508.2	508.2
22°	455.7	455.7	455.7	455.7	455.7
23°	410.9	410.9	410.9	410.9	410.9
24°	374.0	374.0	374.0	374.0	374.0
25°	337.1	337.1	337.1	337.1	337.1
26°	308.6	308.6	308.6	308.6	308.6
27°	280.1	280.1	280.1	280.1	280.1
28°	253.5	253.5	253.5	253.5	253.5
29°	229.0	229.0	229.0	229.0	229.0
30°	204.5	204.5	204.5	204.5	204.5
31°	182.4	182.4	182.4	182.4	182.4
32°	160.4	160.4	160.4	160.4	160.4
33°	139.7	139.7	139.7	139.7	139.7
34°	120.3	120.3	120.3	120.3	120.3
35°	101.0	101.0	101.0	101.0	101.0
36°	86.1	86.1	86.1	86.1	86.1
37°	71.3	71.3	71.3	71.3	71.3
38°	58.6	58.6	58.6	58.6	58.6
39°	48.2	48.2	48.2	48.2	48.2
40°	37.8	37.8	37.8	37.8	37.8
41°	31.1	31.1	31.1	31.1	31.1
42°	24.4	24.4	24.4	24.4	24.4
43°	19.2	19.2	19.2	19.2	19.2
44°	15.5	15.5	15.5	15.5	15.5

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CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	11.8	11.8	11.8	11.8	11.8
46°	10.0	10.0	10.0	10.0	10.0
47°	8.3	8.3	8.3	8.3	8.3
48°	7.1	7.1	7.1	7.1	7.1
49°	6.3	6.3	6.3	6.3	6.3
50°	5.6	5.6	5.6	5.6	5.6
51°	5.1	5.1	5.1	5.1	5.1
52°	4.6	4.6	4.6	4.6	4.6
53°	4.1	4.1	4.1	4.1	4.1
54°	3.6	3.6	3.6	3.6	3.6
55°	3.1	3.1	3.1	3.1	3.1
56°	2.9	2.9	2.9	2.9	2.9
57°	2.6	2.6	2.6	2.6	2.6
58°	2.5	2.5	2.5	2.5	2.5
59°	2.5	2.5	2.5	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5
61°	2.2	2.2	2.2	2.2	2.2
62°	2.0	2.0	2.0	2.0	2.0
63°	1.7	1.7	1.7	1.7	1.7
64°	1.5	1.5	1.5	1.5	1.5
65°	1.2	1.2	1.2	1.2	1.2
66°	1.2	1.2	1.2	1.2	1.2
67°	1.2	1.2	1.2	1.2	1.2
68°	1.1	1.1	1.1	1.1	1.1
69°	0.9	0.9	0.9	0.9	0.9
70°	0.6	0.6	0.6	0.6	0.6
71°	0.6	0.6	0.6	0.6	0.6
72°	0.6	0.6	0.6	0.6	0.6
73°	0.6	0.6	0.6	0.6	0.6
74°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
76°	0.4	0.4	0.4	0.4	0.4
77°	0.1	0.1	0.1	0.1	0.1
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
106°	0.2	0.2	0.2	0.2	0.2
107°	0.5	0.5	0.5	0.5	0.5
108°	0.6	0.6	0.6	0.6	0.6
109°	0.6	0.6	0.6	0.6	0.6
110°	0.6	0.6	0.6	0.6	0.6
111°	0.6	0.6	0.6	0.6	0.6
112°	0.6	0.6	0.6	0.6	0.6
113°	0.7	0.7	0.7	0.7	0.7
114°	1.0	1.0	1.0	1.0	1.0
115°	1.2	1.2	1.2	1.2	1.2
116°	1.2	1.2	1.2	1.2	1.2
117°	1.2	1.2	1.2	1.2	1.2
118°	1.4	1.4	1.4	1.4	1.4
119°	1.6	1.6	1.6	1.6	1.6
120°	1.9	1.9	1.9	1.9	1.9
121°	1.9	1.9	1.9	1.9	1.9
122°	1.9	1.9	1.9	1.9	1.9
123°	2.0	2.0	2.0	2.0	2.0
124°	2.2	2.2	2.2	2.2	2.2
125°	2.5	2.5	2.5	2.5	2.5
126°	2.5	2.5	2.5	2.5	2.5
127°	2.5	2.5	2.5	2.5	2.5
128°	2.7	2.7	2.7	2.7	2.7
129°	3.2	3.2	3.2	3.2	3.2
130°	3.7	3.7	3.7	3.7	3.7
131°	4.2	4.2	4.2	4.2	4.2
132°	4.7	4.7	4.7	4.7	4.7
133°	5.7	5.7	5.7	5.7	5.7
134°	7.2	7.2	7.2	7.2	7.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	8.7	8.7	8.7	8.7	8.7
136°	11.9	11.9	11.9	11.9	11.9
137°	15.1	15.1	15.1	15.1	15.1
138°	19.7	19.7	19.7	19.7	19.7
139°	25.7	25.7	25.7	25.7	25.7
140°	31.6	31.6	31.6	31.6	31.6
141°	41.5	41.5	41.5	41.5	41.5
142°	51.4	51.4	51.4	51.4	51.4
143°	63.4	63.4	63.4	63.4	63.4
144°	77.6	77.6	77.6	77.6	77.6
145°	91.7	91.7	91.7	91.7	91.7
146°	109.3	109.3	109.3	109.3	109.3
147°	126.9	126.9	126.9	126.9	126.9
148°	145.5	145.5	145.5	145.5	145.5
149°	165.1	165.1	165.1	165.1	165.1
150°	184.6	184.6	184.6	184.6	184.6
151°	203.5	203.5	203.5	203.5	203.5
152°	222.3	222.3	222.3	222.3	222.3
153°	241.1	241.1	241.1	241.1	241.1
154°	260.0	260.0	260.0	260.0	260.0
155°	278.8	278.8	278.8	278.8	278.8
156°	300.9	300.9	300.9	300.9	300.9
157°	322.9	322.9	322.9	322.9	322.9
158°	349.7	349.7	349.7	349.7	349.7
159°	381.2	381.2	381.2	381.2	381.2
160°	412.6	412.6	412.6	412.6	412.6
161°	463.9	463.9	463.9	463.9	463.9
162°	515.2	515.2	515.2	515.2	515.2
163°	584.3	584.3	584.3	584.3	584.3
164°	671.0	671.0	671.0	671.0	671.0
165°	757.8	757.8	757.8	757.8	757.8
166°	896.0	896.0	896.0	896.0	896.0
167°	1034.3	1034.3	1034.3	1034.3	1034.3
168°	1205.6	1205.6	1205.6	1205.6	1205.6
169°	1409.8	1409.8	1409.8	1409.8	1409.8
170°	1614.0	1614.0	1614.0	1614.0	1614.0
171°	1870.0	1870.0	1870.0	1870.0	1870.0
172°	2126.0	2126.0	2126.0	2126.0	2126.0
173°	2375.9	2375.9	2375.9	2375.9	2375.9
174°	2619.5	2619.5	2619.5	2619.5	2619.5
175°	2863.1	2863.1	2863.1	2863.1	2863.1
176°	3029.9	3029.9	3029.9	3029.9	3029.9
177°	3196.7	3196.7	3196.7	3196.7	3196.7
178°	3312.7	3312.7	3312.7	3312.7	3312.7
179°	3377.9	3377.9	3377.9	3377.9	3377.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3443.0	3443.0	3443.0	3443.0	3443.0

TEST NUMBER: P1057312

CATALOG NUMBER: PRLX-CYL2W-DI-X-935-10L-NF-SP-U-S-X-X-BLAK

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.10	0.46	1.07	2.35	0.00	0.10	0.46	1.07	2.35
	3H	0.14	0.71	1.15	1.69	2.99	0.14	0.71	1.15	1.69	2.99
	4H	0.35	0.89	1.37	1.88	3.18	0.35	0.89	1.37	1.88	3.18
	6H	0.24	0.73	1.26	1.72	3.04	0.24	0.73	1.26	1.72	3.04
	8H	0.17	0.64	1.21	1.65	2.96	0.17	0.64	1.21	1.65	2.96
	12H	0.11	0.55	1.14	1.55	2.88	0.11	0.55	1.14	1.55	2.88
4H	2H	0.00	0.07	0.56	1.05	2.36	0.00	0.07	0.56	1.05	2.36
	3H	0.27	0.72	1.30	1.74	3.05	0.27	0.72	1.30	1.74	3.05
	4H	0.60	1.01	1.64	2.02	3.36	0.60	1.01	1.64	2.02	3.36
	6H	0.49	0.84	1.53	1.87	3.21	0.49	0.84	1.53	1.87	3.21
	8H	0.42	0.75	1.47	1.77	3.12	0.42	0.75	1.47	1.77	3.12
	12H	0.35	0.64	1.41	1.68	3.03	0.35	0.64	1.41	1.68	3.03
8H	4H	0.53	0.85	1.57	1.88	3.22	0.53	0.85	1.57	1.88	3.22
	6H	0.41	0.67	1.47	1.74	3.09	0.41	0.67	1.47	1.74	3.09
	8H	0.35	0.58	1.42	1.63	3.00	0.35	0.58	1.42	1.63	3.00
	12H	0.28	0.48	1.35	1.52	2.94	0.28	0.48	1.35	1.52	2.94
12H	4H	0.45	0.74	1.51	1.78	3.14	0.45	0.74	1.51	1.78	3.14
	6H	0.35	0.58	1.42	1.63	3.00	0.35	0.58	1.42	1.63	3.00
	8H	0.28	0.48	1.35	1.52	2.94	0.28	0.48	1.35	1.52	2.94

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

PrentaLux 3D Printing

Report Number: SP1-2504-407-2

Test Date: 07/17/2025

Luminaire Tested: PRLX-CYL2-X-935-10L-FL-U-S-X-X-BLAK

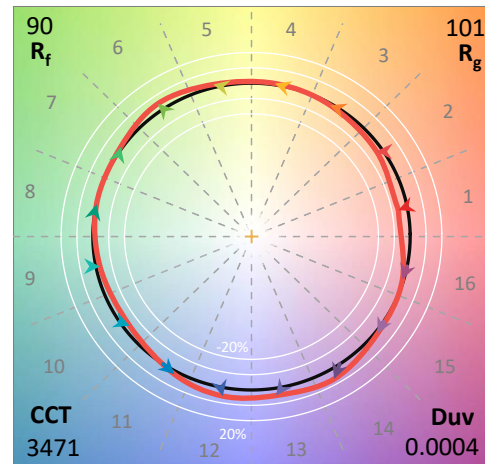
Data in this report applies to families of products including PRLX-CYL2-X-935-10L-FL-U-S-X-X-BLAK

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-407-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/17/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: PrentaLux 3D Printing
 Catalog Number: **PRLX-CYL2-X-935-10L-FL-U-S-X-X-BLAK**
 Description: PrentaLux 2-INCH CYLINDER, BLACK TRIM, FLOOD OPTIC, 1000 LUMENS, 3500K

Spectral Parameters

CCT (K):	3471	CRI (Ra):	92.0		
CIE u':	0.2363	R1:	93.5	R9:	60.0
CIE v':	0.5123	R2:	93.8	R10:	83.3
Duv:	0.0004	R3:	92.5	R11:	93.8
CIE x:	0.4073	R4:	93.5	R12:	74.7
CIE y:	0.3925	R5:	92.3	R13:	93.1
CIE z:	0.2001	R6:	92.2	R14:	94.7
Peak Wavelength (nm):	630	R7:	93.3	R15:	90.1
Dominant Wavelength (nm):	580	R8:	85.0		
Purity:	40.06645				
Rf:	90				
Rg:	100.7				



Test Conditions

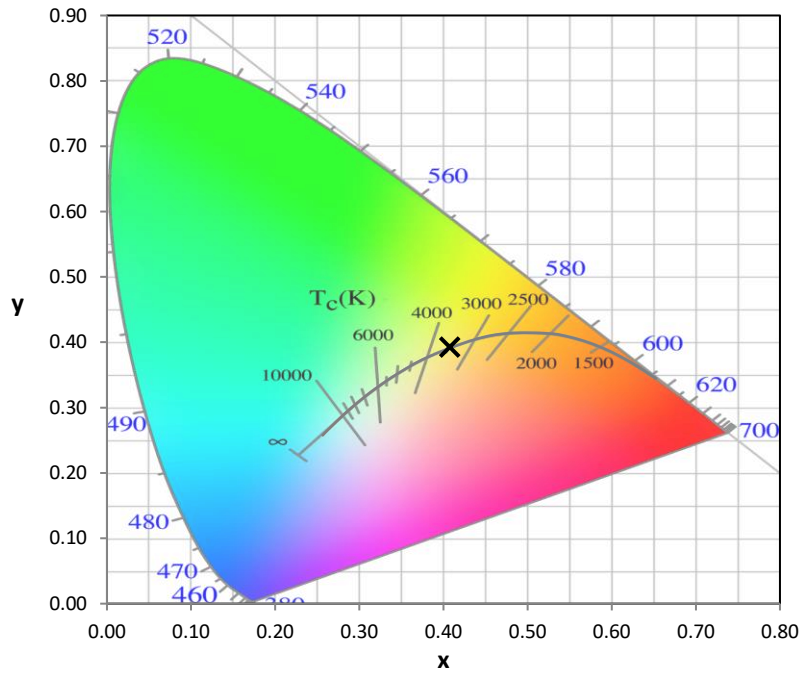
Stabilization Time: 64M
 Operation Time: 2H 4M
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2504-407-2

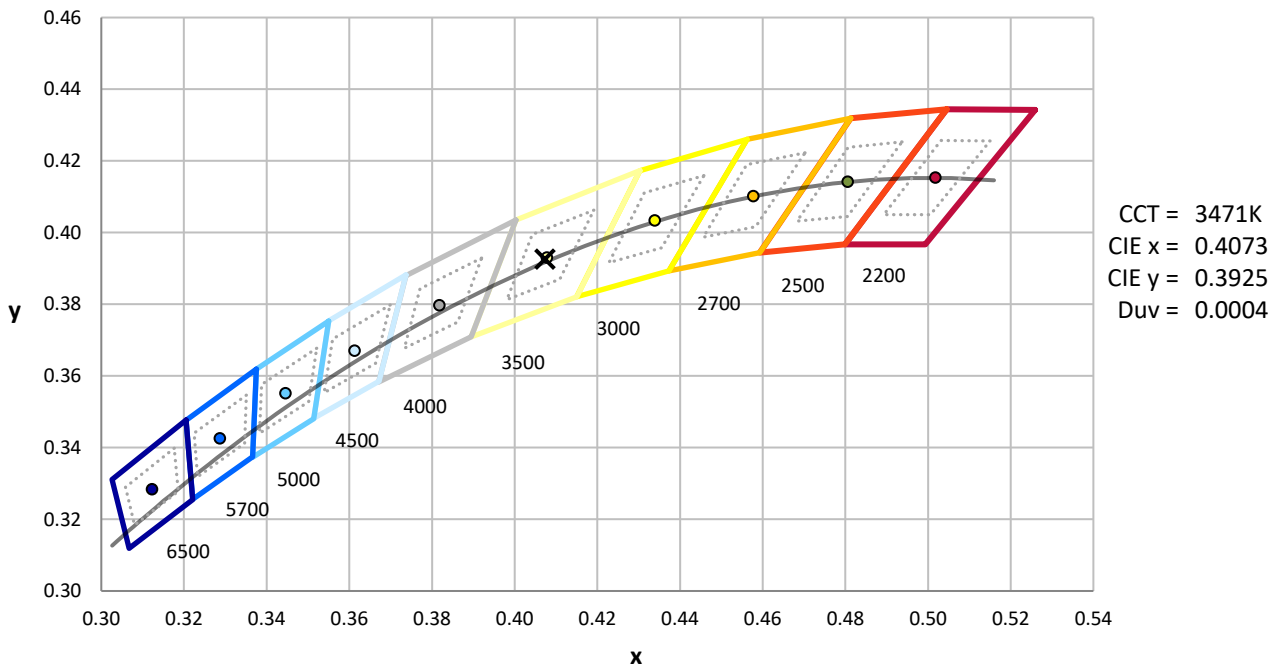
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2504-407-2

CIE 1931 Chromaticity Diagram



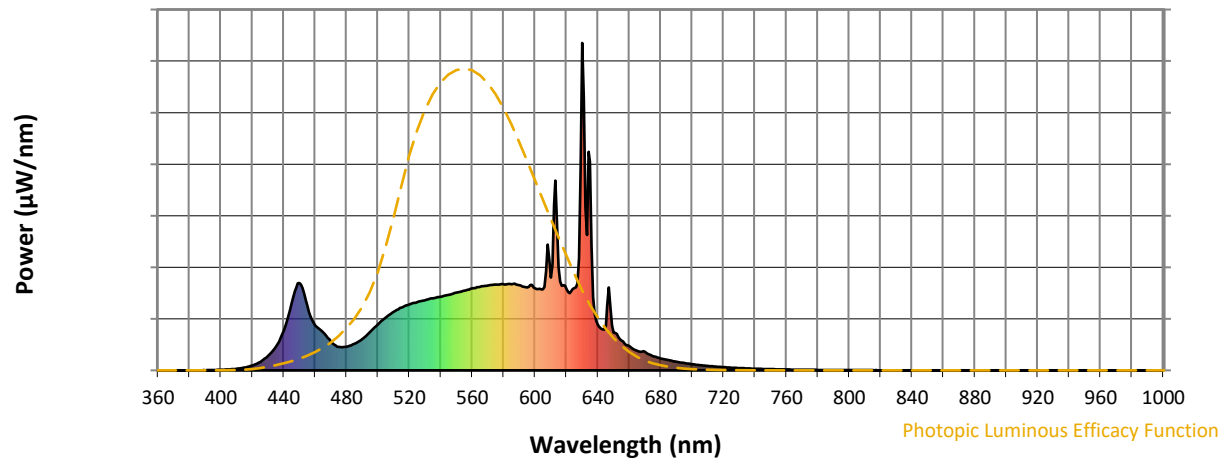
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2504-407-2

Photopic Flux vs. Wavelength

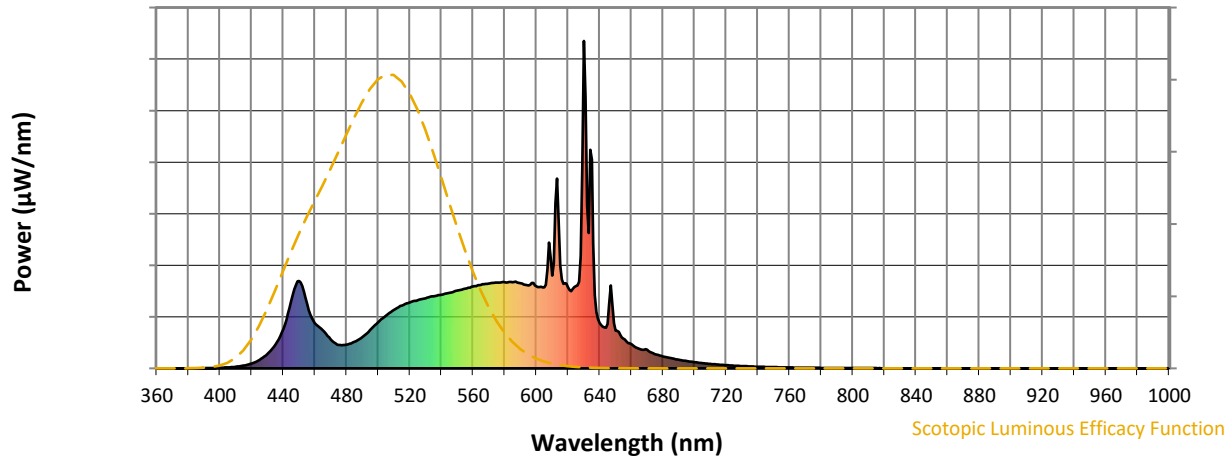


Photopic Lumens: NR

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	96	NR	620	248	NR	750	4	NR	880	0	NR
365	0	NR	495	117	NR	625	252	NR	755	3	NR	885	0	NR
370	0	NR	500	140	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	161	NR	635	638	NR	765	2	NR	895	0	NR
380	0	NR	510	179	NR	640	139	NR	770	2	NR	900	0	NR
385	0	NR	515	192	NR	645	136	NR	775	2	NR	905	0	NR
390	0	NR	520	201	NR	650	116	NR	780	1	NR	910	0	NR
395	1	NR	525	208	NR	655	91	NR	785	1	NR	915	0	NR
400	2	NR	530	214	NR	660	74	NR	790	1	NR	920	0	NR
405	3	NR	535	220	NR	665	59	NR	795	1	NR	925	0	NR
410	5	NR	540	225	NR	670	57	NR	800	1	NR	930	0	NR
415	8	NR	545	231	NR	675	43	NR	805	1	NR	935	0	NR
420	15	NR	550	237	NR	680	37	NR	810	1	NR	940	0	NR
425	26	NR	555	243	NR	685	31	NR	815	1	NR	945	0	NR
430	44	NR	560	250	NR	690	26	NR	820	0	NR	950	0	NR
435	72	NR	565	255	NR	695	22	NR	825	0	NR	955	0	NR
440	120	NR	570	259	NR	700	19	NR	830	0	NR	960	0	NR
445	206	NR	575	262	NR	705	16	NR	835	0	NR	965	0	NR
450	267	NR	580	263	NR	710	14	NR	840	0	NR	970	0	NR
455	197	NR	585	263	NR	715	12	NR	845	0	NR	975	0	NR
460	138	NR	590	260	NR	720	10	NR	850	0	NR	980	0	NR
465	117	NR	595	253	NR	725	8	NR	855	0	NR	985	0	NR
470	88	NR	600	250	NR	730	7	NR	860	0	NR	990	0	NR
475	71	NR	605	247	NR	735	6	NR	865	0	NR	995	0	NR
480	73	NR	610	284	NR	740	5	NR	870	0	NR	1000	0	NR
485	81	NR	615	315	NR	745	4	NR	875	0	NR			

REPORT NUMBER: SP1-2504-407-2

Scotopic Flux vs. Wavelength



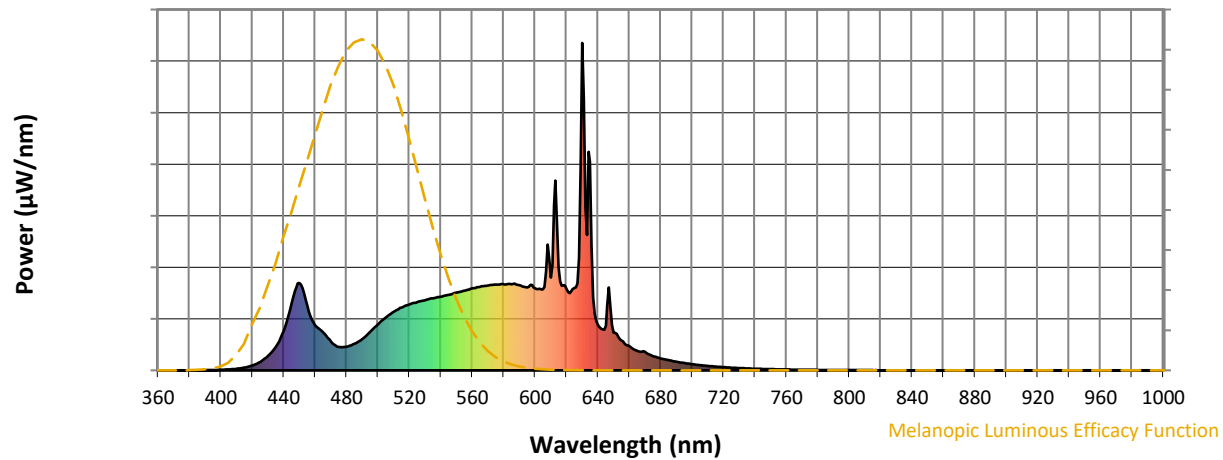
Scotopic Lumens: NR

S/P: 1.57

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	96	NR	620	248	NR	750	4	NR	880	0	NR
365	0	NR	495	117	NR	625	252	NR	755	3	NR	885	0	NR
370	0	NR	500	140	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	161	NR	635	638	NR	765	2	NR	895	0	NR
380	0	NR	510	179	NR	640	139	NR	770	2	NR	900	0	NR
385	0	NR	515	192	NR	645	136	NR	775	2	NR	905	0	NR
390	0	NR	520	201	NR	650	116	NR	780	1	NR	910	0	NR
395	1	NR	525	208	NR	655	91	NR	785	1	NR	915	0	NR
400	2	NR	530	214	NR	660	74	NR	790	1	NR	920	0	NR
405	3	NR	535	220	NR	665	59	NR	795	1	NR	925	0	NR
410	5	NR	540	225	NR	670	57	NR	800	1	NR	930	0	NR
415	8	NR	545	231	NR	675	43	NR	805	1	NR	935	0	NR
420	15	NR	550	237	NR	680	37	NR	810	1	NR	940	0	NR
425	26	NR	555	243	NR	685	31	NR	815	1	NR	945	0	NR
430	44	NR	560	250	NR	690	26	NR	820	0	NR	950	0	NR
435	72	NR	565	255	NR	695	22	NR	825	0	NR	955	0	NR
440	120	NR	570	259	NR	700	19	NR	830	0	NR	960	0	NR
445	206	NR	575	262	NR	705	16	NR	835	0	NR	965	0	NR
450	267	NR	580	263	NR	710	14	NR	840	0	NR	970	0	NR
455	197	NR	585	263	NR	715	12	NR	845	0	NR	975	0	NR
460	138	NR	590	260	NR	720	10	NR	850	0	NR	980	0	NR
465	117	NR	595	253	NR	725	8	NR	855	0	NR	985	0	NR
470	88	NR	600	250	NR	730	7	NR	860	0	NR	990	0	NR
475	71	NR	605	247	NR	735	6	NR	865	0	NR	995	0	NR
480	73	NR	610	284	NR	740	5	NR	870	0	NR	1000	0	NR
485	81	NR	615	315	NR	745	4	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.11

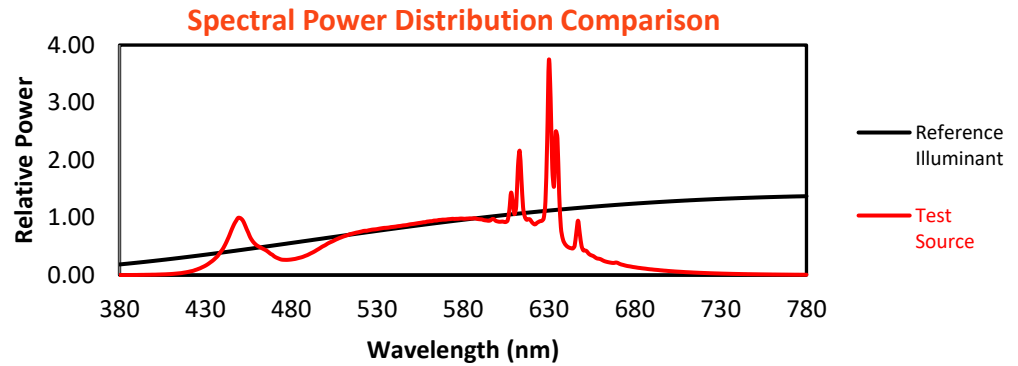
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	96	NR	620	248	NR	750	4	NR	880	0	NR
365	0	NR	495	117	NR	625	252	NR	755	3	NR	885	0	NR
370	0	NR	500	140	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	161	NR	635	638	NR	765	2	NR	895	0	NR
380	0	NR	510	179	NR	640	139	NR	770	2	NR	900	0	NR
385	0	NR	515	192	NR	645	136	NR	775	2	NR	905	0	NR
390	0	NR	520	201	NR	650	116	NR	780	1	NR	910	0	NR
395	1	NR	525	208	NR	655	91	NR	785	1	NR	915	0	NR
400	2	NR	530	214	NR	660	74	NR	790	1	NR	920	0	NR
405	3	NR	535	220	NR	665	59	NR	795	1	NR	925	0	NR
410	5	NR	540	225	NR	670	57	NR	800	1	NR	930	0	NR
415	8	NR	545	231	NR	675	43	NR	805	1	NR	935	0	NR
420	15	NR	550	237	NR	680	37	NR	810	1	NR	940	0	NR
425	26	NR	555	243	NR	685	31	NR	815	1	NR	945	0	NR
430	44	NR	560	250	NR	690	26	NR	820	0	NR	950	0	NR
435	72	NR	565	255	NR	695	22	NR	825	0	NR	955	0	NR
440	120	NR	570	259	NR	700	19	NR	830	0	NR	960	0	NR
445	206	NR	575	262	NR	705	16	NR	835	0	NR	965	0	NR
450	267	NR	580	263	NR	710	14	NR	840	0	NR	970	0	NR
455	197	NR	585	263	NR	715	12	NR	845	0	NR	975	0	NR
460	138	NR	590	260	NR	720	10	NR	850	0	NR	980	0	NR
465	117	NR	595	253	NR	725	8	NR	855	0	NR	985	0	NR
470	88	NR	600	250	NR	730	7	NR	860	0	NR	990	0	NR
475	71	NR	605	247	NR	735	6	NR	865	0	NR	995	0	NR
480	73	NR	610	284	NR	740	5	NR	870	0	NR	1000	0	NR
485	81	NR	615	315	NR	745	4	NR	875	0	NR			

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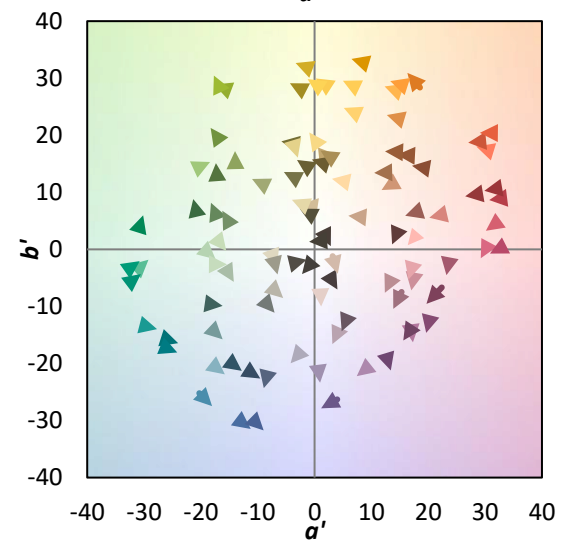
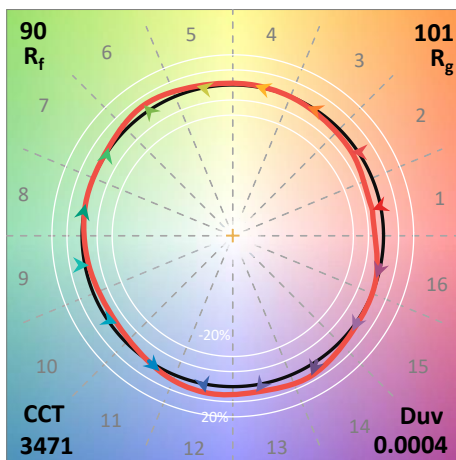
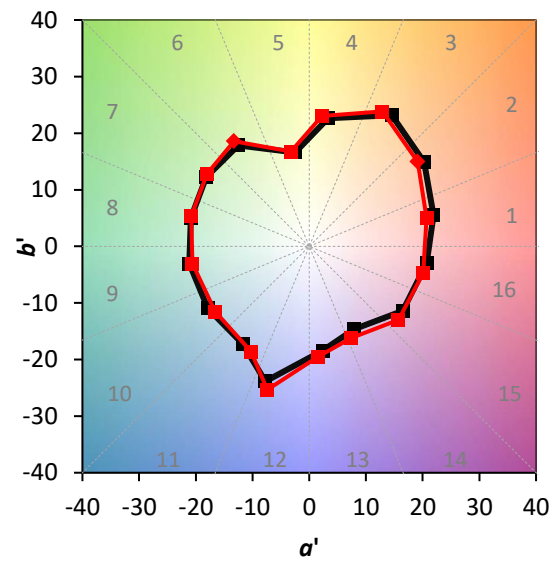
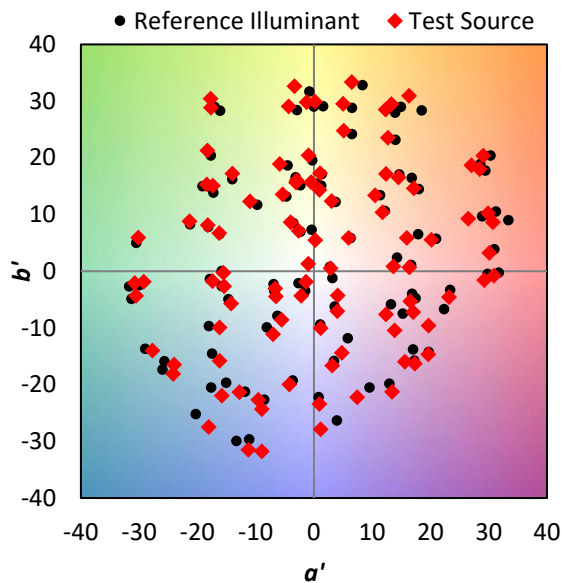
TM-30-18

Summary

$R_f = 90$
 $R_g = 100.7$
 $CIE R_a = 92.0$
 $R_9 = 60.0$

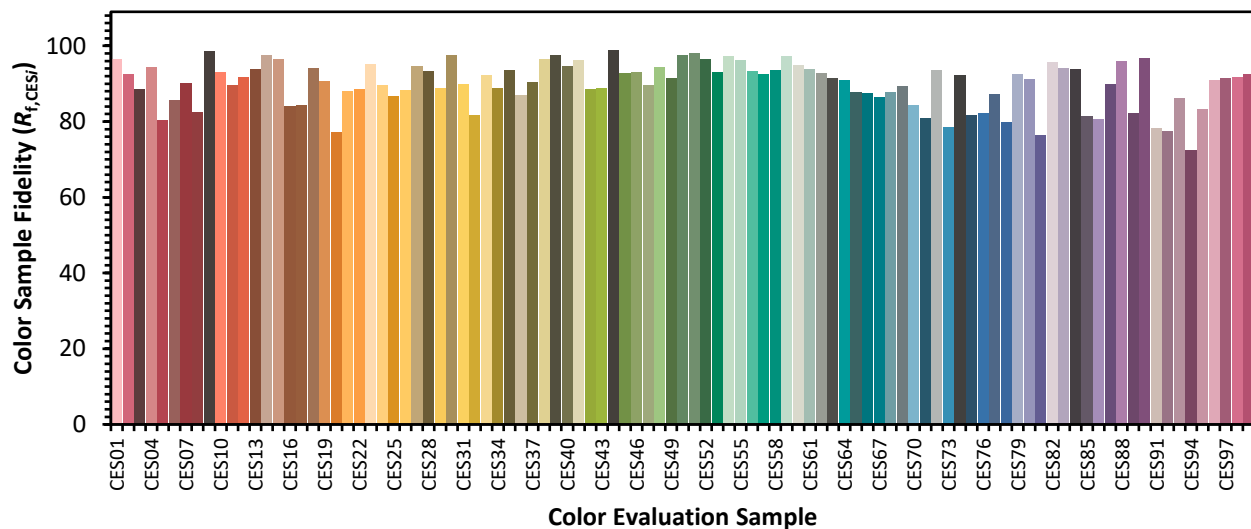


Color Vector Graphics

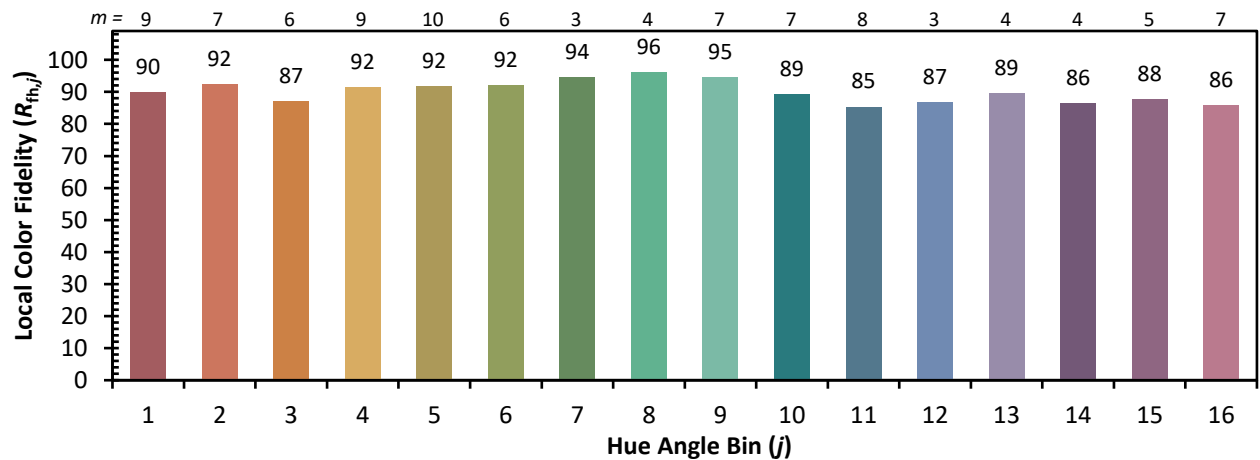
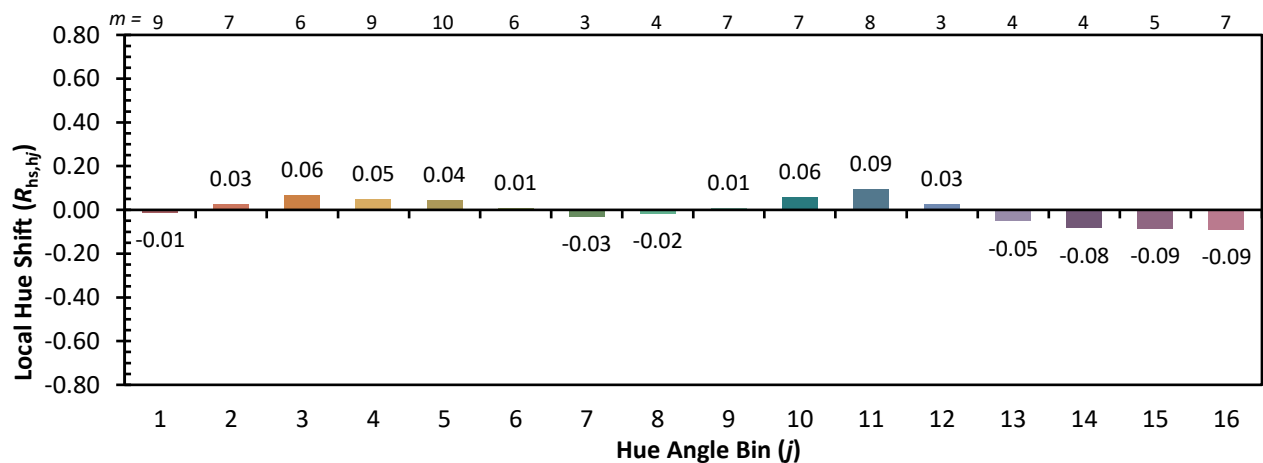
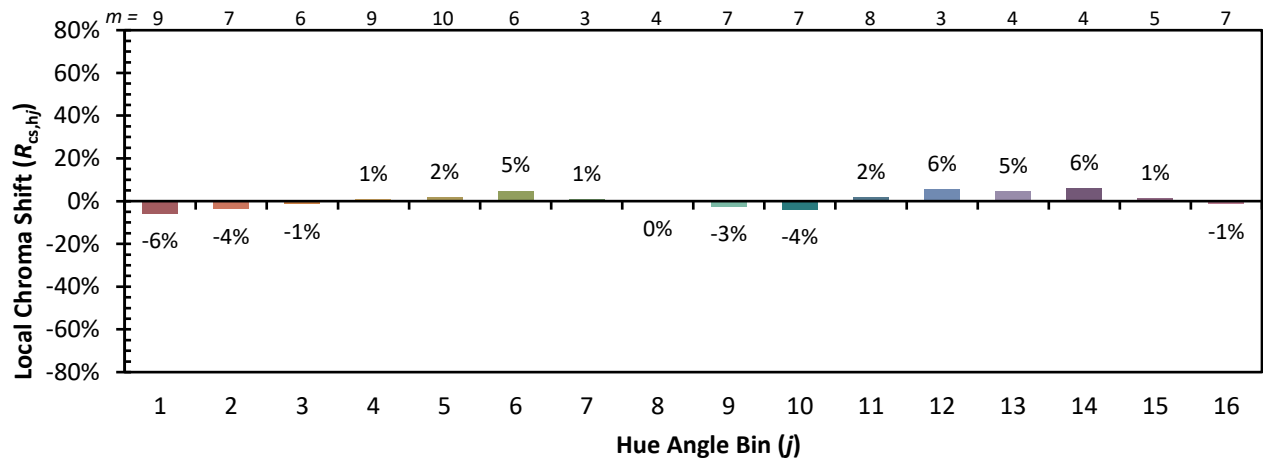


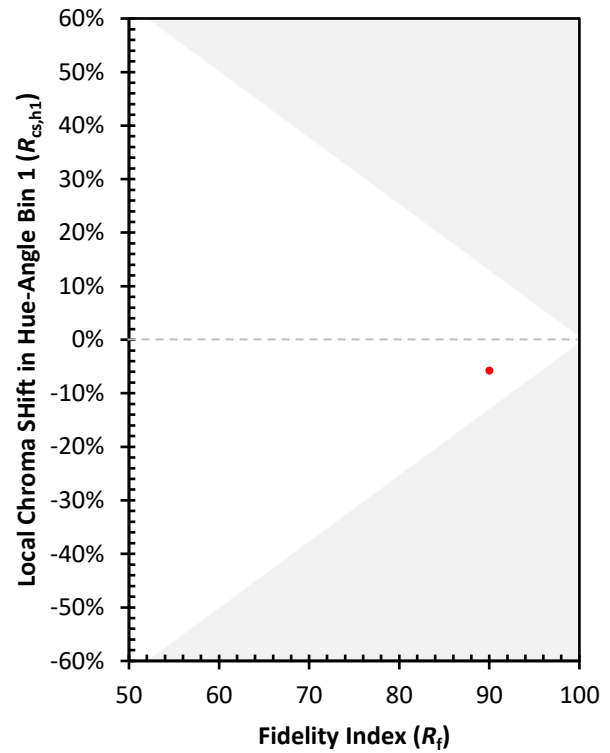
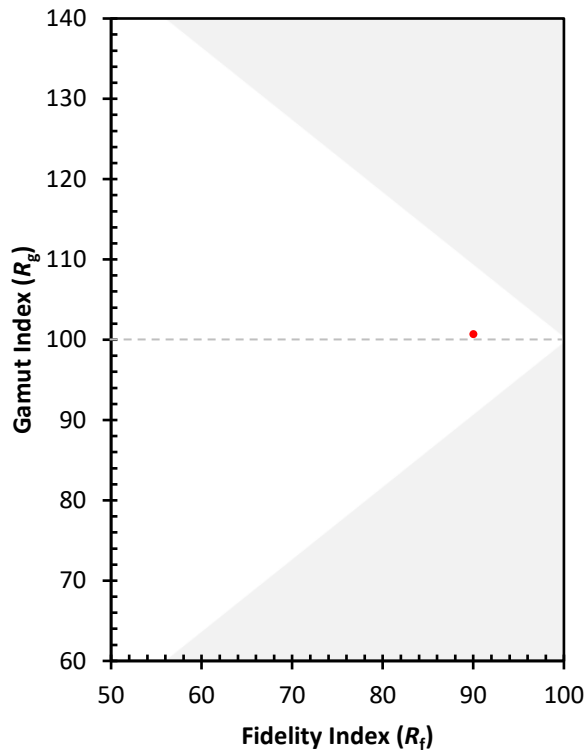
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 88	CES51 = 98	CES76 = 82
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 93	CES53 = 93	CES78 = 80
CES04 = 70	CES29 = 89	CES54 = 97	CES79 = 93
CES05 = 49	CES30 = 97	CES55 = 96	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 93	CES81 = 77
CES07 = 43	CES32 = 82	CES57 = 93	CES82 = 96
CES08 = 41	CES33 = 92	CES58 = 94	CES83 = 94
CES09 = 29	CES34 = 89	CES59 = 97	CES84 = 94
CES10 = 75	CES35 = 93	CES60 = 95	CES85 = 81
CES11 = 58	CES36 = 87	CES61 = 94	CES86 = 81
CES12 = 64	CES37 = 90	CES62 = 93	CES87 = 90
CES13 = 43	CES38 = 97	CES63 = 91	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 91	CES89 = 82
CES15 = 71	CES40 = 95	CES65 = 88	CES90 = 97
CES16 = 47	CES41 = 96	CES66 = 88	CES91 = 78
CES17 = 49	CES42 = 88	CES67 = 86	CES92 = 77
CES18 = 56	CES43 = 89	CES68 = 88	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 72
CES20 = 66	CES45 = 93	CES70 = 84	CES95 = 83
CES21 = 86	CES46 = 93	CES71 = 81	CES96 = 91
CES22 = 78	CES47 = 90	CES72 = 94	CES97 = 92
CES23 = 91	CES48 = 95	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 91	CES74 = 92	CES99 = 93
CES25 = 71	CES50 = 98	CES75 = 82	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)