

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: P1057235

Luminaire Tested: PRLX-CYL2W-DI-X-927-15L-SP-NF-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057235
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3, G2-2504-407-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-927-15L-SP-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, SPOT OPTIC (19-DEGREES)
UPLIGHT 750 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

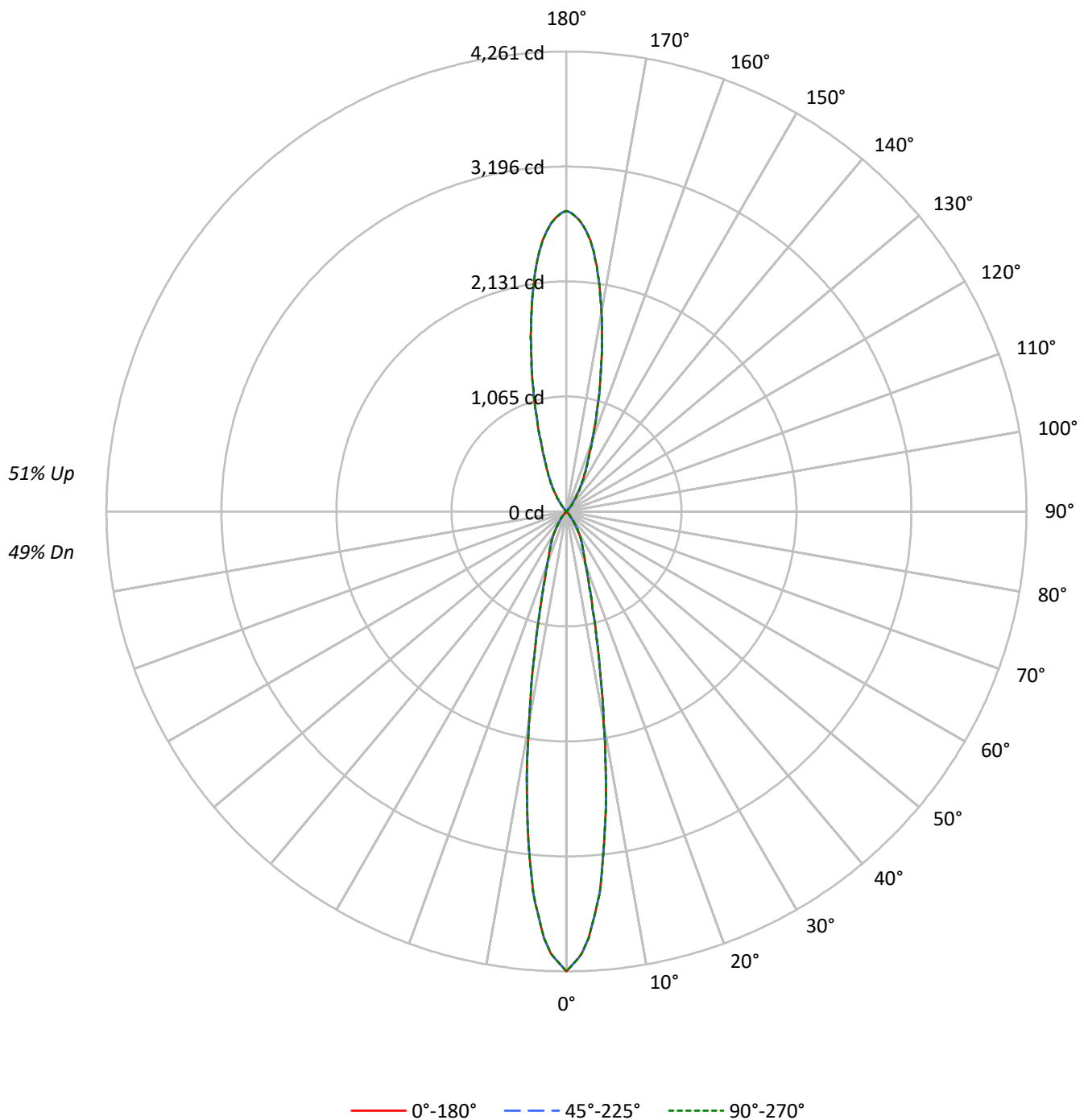
Lumens per Lamp: N/A
Luminaire Lumens: 1659.8 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 12.8
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

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CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-NF-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057235

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-NF-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	30	10
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	100	97	94	92	93	90	88	86	77	75	74	65	64	63	53	53	52
2	94	89	85	81	87	83	79	76	72	69	67	61	59	58	51	50	50
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	49	48	47
4	84	76	70	66	78	72	67	63	63	60	57	55	53	51	48	46	45
5	79	71	65	61	74	67	62	58	59	56	53	52	50	48	46	44	43
6	75	66	60	56	70	63	58	54	56	53	50	50	47	45	44	43	41
7	72	62	57	52	67	59	54	51	53	50	47	48	45	43	43	41	40
8	68	59	53	49	64	56	51	48	51	47	44	46	43	41	41	40	38
9	65	56	50	47	61	53	49	45	49	45	42	44	42	40	40	38	37
10	62	53	48	44	59	51	46	43	47	43	41	43	40	38	39	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2746065	2746065	2746065
5°	2292224	2292224	2292224
10°	1307151	1307151	1307151
15°	625655	625655	625655
20°	350226	350226	350226
25°	245379	245379	245379
30°	170030	170030	170030
35°	89289	89289	89289
40°	32892	32892	32892
45°	9751	9751	9751
50°	4612	4612	4612
55°	3483	3483	3483
60°	2964	2964	2964
65°	2287	2287	2287
70°	1507	1507	1507
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9751 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-NF-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	17.2
10°-20°	277.8	16.7
20°-30°	159.9	9.6
30°-40°	73.7	4.4
40°-50°	11.2	0.7
50°-60°	2.7	0.2
60°-70°	1.3	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.0
110°-120°	1.8	0.1
120°-130°	3.8	0.2
130°-140°	14.5	0.9
140°-150°	82.0	4.9
150°-160°	196.6	11.8
160°-170°	329.0	19.8
170°-180°	219.2	13.2
0°-30°	723.1	43.6
0°-40°	796.9	48.0
0°-60°	810.7	48.8
0°-90°	812.4	48.9
90°-120°	2.3	0.1
90°-150°	102.6	6.2
90°-180°	847.0	51.0
0°-180°	1659.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4261	4261	4261	4261	4261	
5°	3544	3544	3544	3544	3544	285
15°	938	938	938	938	938	278
25°	345	345	345	345	345	160
35°	114	114	114	114	114	74
45°	11	11	11	11	11	11
55°	3	3	3	3	3	3
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	1	1	1	1	1	1
115°	2	2	2	2	2	2
125°	4	4	4	4	4	4
135°	15	15	15	15	15	14
145°	125	125	125	125	125	82
155°	417	417	417	417	417	197
165°	1191	1191	1191	1191	1191	329
175°	2521	2521	2521	2521	2521	219
180°	2784	2784	2784	2784	2784	

TEST NUMBER: P1057235

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4261.3	4261.3	4261.3	4261.3	4261.3
1°	4180.6	4180.6	4180.6	4180.6	4180.6
2°	4100.0	4100.0	4100.0	4100.0	4100.0
3°	3956.4	3956.4	3956.4	3956.4	3956.4
4°	3750.0	3750.0	3750.0	3750.0	3750.0
5°	3543.5	3543.5	3543.5	3543.5	3543.5
6°	3242.0	3242.0	3242.0	3242.0	3242.0
7°	2940.5	2940.5	2940.5	2940.5	2940.5
8°	2631.3	2631.3	2631.3	2631.3	2631.3
9°	2314.5	2314.5	2314.5	2314.5	2314.5
10°	1997.6	1997.6	1997.6	1997.6	1997.6
11°	1744.9	1744.9	1744.9	1744.9	1744.9
12°	1492.1	1492.1	1492.1	1492.1	1492.1
13°	1280.2	1280.2	1280.2	1280.2	1280.2
14°	1109.0	1109.0	1109.0	1109.0	1109.0
15°	937.8	937.8	937.8	937.8	937.8
16°	830.5	830.5	830.5	830.5	830.5
17°	723.1	723.1	723.1	723.1	723.1
18°	637.7	637.7	637.7	637.7	637.7
19°	574.2	574.2	574.2	574.2	574.2
20°	510.7	510.7	510.7	510.7	510.7
21°	471.8	471.8	471.8	471.8	471.8
22°	432.8	432.8	432.8	432.8	432.8
23°	399.7	399.7	399.7	399.7	399.7
24°	372.4	372.4	372.4	372.4	372.4
25°	345.1	345.1	345.1	345.1	345.1
26°	321.8	321.8	321.8	321.8	321.8
27°	298.5	298.5	298.5	298.5	298.5
28°	275.1	275.1	275.1	275.1	275.1
29°	251.8	251.8	251.8	251.8	251.8
30°	228.5	228.5	228.5	228.5	228.5
31°	204.3	204.3	204.3	204.3	204.3
32°	180.1	180.1	180.1	180.1	180.1
33°	157.0	157.0	157.0	157.0	157.0
34°	135.3	135.3	135.3	135.3	135.3
35°	113.5	113.5	113.5	113.5	113.5
36°	96.0	96.0	96.0	96.0	96.0
37°	78.5	78.5	78.5	78.5	78.5
38°	63.6	63.6	63.6	63.6	63.6
39°	51.4	51.4	51.4	51.4	51.4
40°	39.1	39.1	39.1	39.1	39.1
41°	31.7	31.7	31.7	31.7	31.7
42°	24.4	24.4	24.4	24.4	24.4
43°	18.7	18.7	18.7	18.7	18.7
44°	14.7	14.7	14.7	14.7	14.7

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CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	10.7	10.7	10.7	10.7	10.7
46°	8.9	8.9	8.9	8.9	8.9
47°	7.1	7.1	7.1	7.1	7.1
48°	5.8	5.8	5.8	5.8	5.8
49°	5.2	5.2	5.2	5.2	5.2
50°	4.6	4.6	4.6	4.6	4.6
51°	4.0	4.0	4.0	4.0	4.0
52°	3.4	3.4	3.4	3.4	3.4
53°	3.1	3.1	3.1	3.1	3.1
54°	3.1	3.1	3.1	3.1	3.1
55°	3.1	3.1	3.1	3.1	3.1
56°	2.8	2.8	2.8	2.8	2.8
57°	2.5	2.5	2.5	2.5	2.5
58°	2.3	2.3	2.3	2.3	2.3
59°	2.3	2.3	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3
61°	2.0	2.0	2.0	2.0	2.0
62°	1.7	1.7	1.7	1.7	1.7
63°	1.5	1.5	1.5	1.5	1.5
64°	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
66°	1.2	1.2	1.2	1.2	1.2
67°	0.9	0.9	0.9	0.9	0.9
68°	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
71°	0.8	0.8	0.8	0.8	0.8
72°	0.8	0.8	0.8	0.8	0.8
73°	0.6	0.6	0.6	0.6	0.6
74°	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0
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-927-15L-SP-NF-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°	0.2	0.2	0.2	0.2	0.2
104°	0.5	0.5	0.5	0.5	0.5
105°	0.8	0.8	0.8	0.8	0.8
106°	0.8	0.8	0.8	0.8	0.8
107°	0.8	0.8	0.8	0.8	0.8
108°	0.8	0.8	0.8	0.8	0.8
109°	0.8	0.8	0.8	0.8	0.8
110°	0.8	0.8	0.8	0.8	0.8
111°	1.1	1.1	1.1	1.1	1.1
112°	1.4	1.4	1.4	1.4	1.4
113°	1.5	1.5	1.5	1.5	1.5
114°	1.5	1.5	1.5	1.5	1.5
115°	1.5	1.5	1.5	1.5	1.5
116°	1.8	1.8	1.8	1.8	1.8
117°	2.1	2.1	2.1	2.1	2.1
118°	2.5	2.5	2.5	2.5	2.5
119°	2.8	2.8	2.8	2.8	2.8
120°	3.1	3.1	3.1	3.1	3.1
121°	3.1	3.1	3.1	3.1	3.1
122°	3.1	3.1	3.1	3.1	3.1
123°	3.2	3.2	3.2	3.2	3.2
124°	3.5	3.5	3.5	3.5	3.5
125°	3.8	3.8	3.8	3.8	3.8
126°	4.4	4.4	4.4	4.4	4.4
127°	5.1	5.1	5.1	5.1	5.1
128°	5.7	5.7	5.7	5.7	5.7
129°	6.3	6.3	6.3	6.3	6.3
130°	6.9	6.9	6.9	6.9	6.9
131°	7.8	7.8	7.8	7.8	7.8
132°	8.7	8.7	8.7	8.7	8.7
133°	10.3	10.3	10.3	10.3	10.3
134°	12.4	12.4	12.4	12.4	12.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	14.6	14.6	14.6	14.6	14.6
136°	19.2	19.2	19.2	19.2	19.2
137°	23.8	23.8	23.8	23.8	23.8
138°	30.2	30.2	30.2	30.2	30.2
139°	38.5	38.5	38.5	38.5	38.5
140°	46.8	46.8	46.8	46.8	46.8
141°	59.7	59.7	59.7	59.7	59.7
142°	72.5	72.5	72.5	72.5	72.5
143°	88.2	88.2	88.2	88.2	88.2
144°	106.6	106.6	106.6	106.6	106.6
145°	125.0	125.0	125.0	125.0	125.0
146°	148.9	148.9	148.9	148.9	148.9
147°	172.8	172.8	172.8	172.8	172.8
148°	198.5	198.5	198.5	198.5	198.5
149°	225.8	225.8	225.8	225.8	225.8
150°	253.1	253.1	253.1	253.1	253.1
151°	283.4	283.4	283.4	283.4	283.4
152°	313.8	313.8	313.8	313.8	313.8
153°	346.6	346.6	346.6	346.6	346.6
154°	381.9	381.9	381.9	381.9	381.9
155°	417.2	417.2	417.2	417.2	417.2
156°	462.9	462.9	462.9	462.9	462.9
157°	508.6	508.6	508.6	508.6	508.6
158°	563.9	563.9	563.9	563.9	563.9
159°	629.0	629.0	629.0	629.0	629.0
160°	694.0	694.0	694.0	694.0	694.0
161°	781.7	781.7	781.7	781.7	781.7
162°	869.5	869.5	869.5	869.5	869.5
163°	968.8	968.8	968.8	968.8	968.8
164°	1079.9	1079.9	1079.9	1079.9	1079.9
165°	1190.9	1190.9	1190.9	1190.9	1190.9
166°	1315.2	1315.2	1315.2	1315.2	1315.2
167°	1446.3	1446.3	1446.3	1446.3	1446.3
168°	1583.6	1583.6	1583.6	1583.6	1583.6
169°	1723.1	1723.1	1723.1	1723.1	1723.1
170°	1869.6	1869.6	1869.6	1869.6	1869.6
171°	2013.8	2013.8	2013.8	2013.8	2013.8
172°	2157.2	2157.2	2157.2	2157.2	2157.2
173°	2292.9	2292.9	2292.9	2292.9	2292.9
174°	2417.1	2417.1	2417.1	2417.1	2417.1
175°	2521.4	2521.4	2521.4	2521.4	2521.4
176°	2608.8	2608.8	2608.8	2608.8	2608.8
177°	2675.6	2675.6	2675.6	2675.6	2675.6
178°	2726.9	2726.9	2726.9	2726.9	2726.9
179°	2766.1	2766.1	2766.1	2766.1	2766.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2783.7	2783.7	2783.7	2783.7	2783.7

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CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-NF-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	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	1.10
	3H	0.00	0.00	0.00	0.22	1.55	0.00	0.00	0.00	0.22	1.55
	4H	0.00	0.00	0.00	0.15	1.48	0.00	0.00	0.00	0.15	1.48
	6H	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	1.33
	8H	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	1.25
	12H	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	1.18
4H	2H	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	1.33
	3H	0.00	0.00	0.20	0.62	1.97	0.00	0.00	0.20	0.62	1.97
	4H	0.00	0.00	0.13	0.51	1.88	0.00	0.00	0.13	0.51	1.88
	6H	0.00	0.00	0.03	0.36	1.72	0.00	0.00	0.03	0.36	1.72
	8H	0.00	0.00	0.00	0.26	1.63	0.00	0.00	0.00	0.26	1.63
	12H	0.00	0.00	0.00	0.16	1.54	0.00	0.00	0.00	0.16	1.54
8H	4H	0.00	0.00	0.02	0.32	1.70	0.00	0.00	0.02	0.32	1.70
	6H	0.00	0.00	0.00	0.19	1.56	0.00	0.00	0.00	0.19	1.56
	8H	0.00	0.00	0.00	0.08	1.47	0.00	0.00	0.00	0.08	1.47
	12H	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	1.41
12H	4H	0.00	0.00	0.00	0.23	1.61	0.00	0.00	0.00	0.23	1.61
	6H	0.00	0.00	0.00	0.08	1.47	0.00	0.00	0.00	0.08	1.47
	8H	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	1.41

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: SP1-2504-407-1

Test Date: 07/16/2025

Luminaire Tested: PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK

Data in this report applies to families of products including PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK

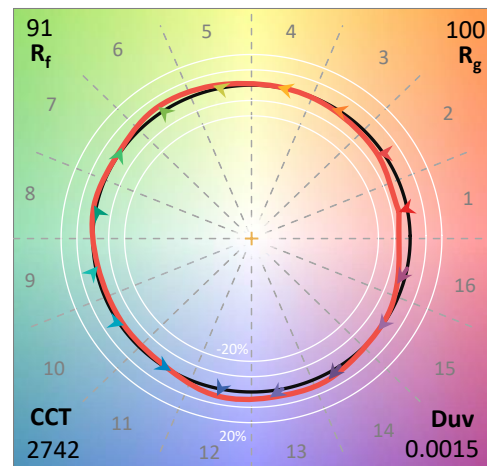
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-407-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/30/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: PentaLux 3D Printing
 Catalog Number: **PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK**
 Description: PentaLux 2-INCH CYLINDER, BLACK TRIM, FLOOD OPTIC, 1000 LUMENS, 2700K

Spectral Parameters

CCT (K): 2742
 CIE u' : 0.2602
 CIE v' : 0.5287
 Duv: 0.0015
 CIE x: 0.4591
 CIE y: 0.4146
 CIE z: 0.1264
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 62.24215
 R_f: 91.5
 R_g: 100.2

CRI (Ra): 93.2
 R1: 94.5
 R2: 95.6
 R3: 95.5
 R4: 95.6
 R5: 93.8
 R6: 96.5
 R7: 92.3
 R8: 81.6
 R9: 55.9
 R10: 87.9
 R11: 97.0
 R12: 84.0
 R13: 94.5
 R14: 96.0
 R15: 88.9



Test Conditions

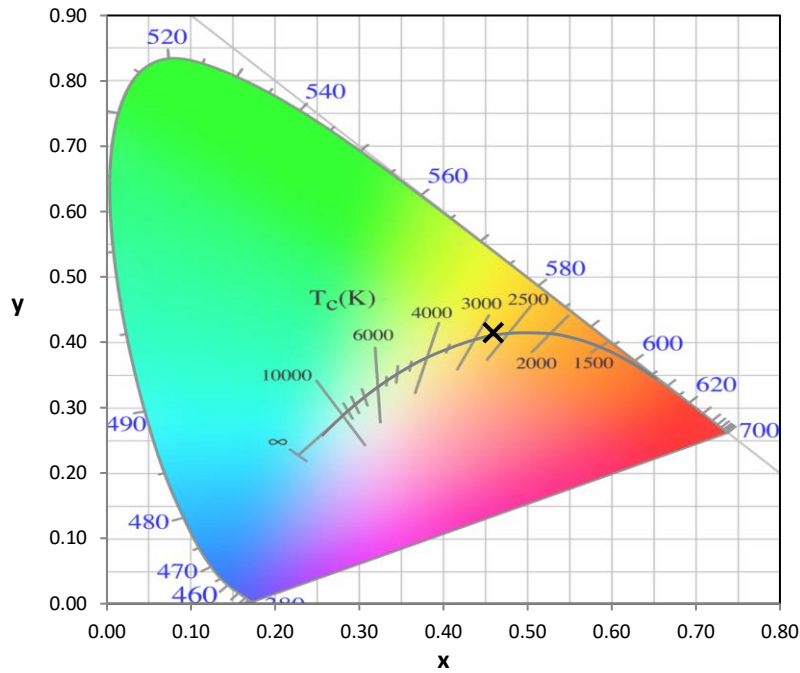
Stabilization Time: 41M
 Operation Time: 1H 41M
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2504-407-1

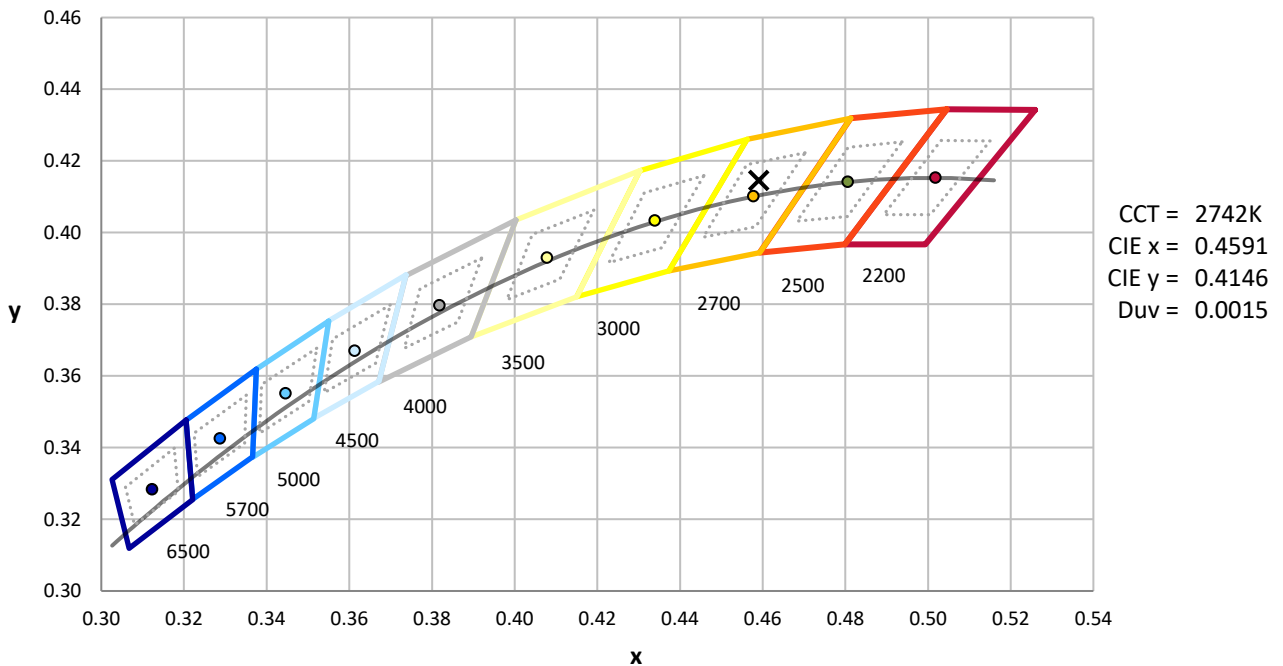
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2504-407-1

CIE 1931 Chromaticity Diagram

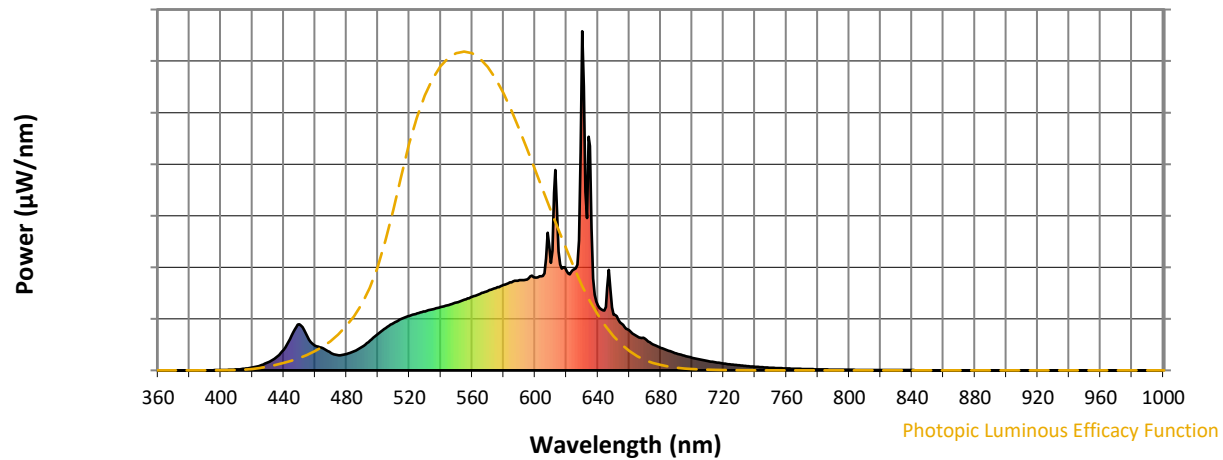


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2504-407-1

Photopic Flux vs. Wavelength

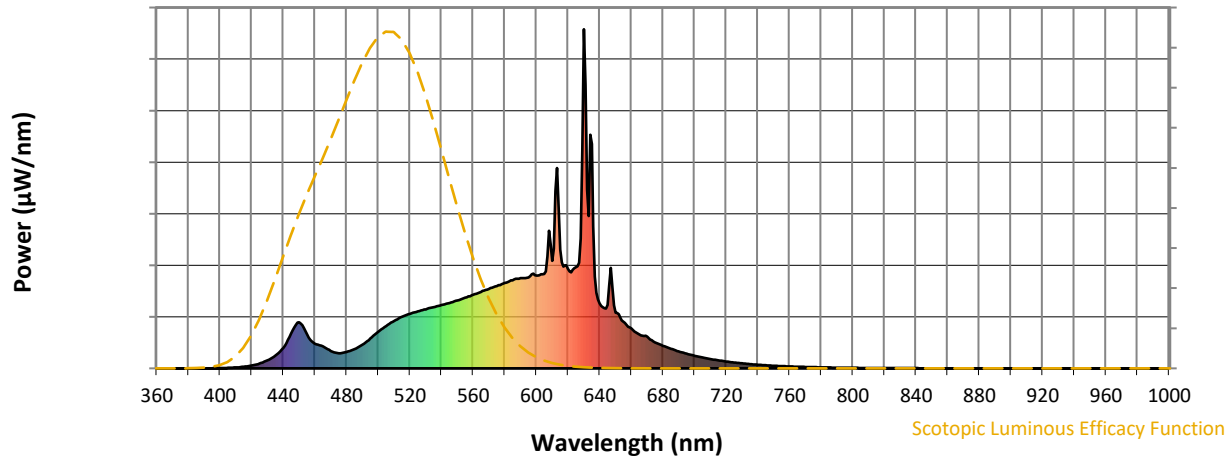


Photopic Lumens: NR

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	70	NR	620	293	NR	750	8	NR	880	0	NR
365	0	NR	495	88	NR	625	299	NR	755	7	NR	885	0	NR
370	0	NR	500	108	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	125	NR	635	661	NR	765	5	NR	895	0	NR
380	0	NR	510	140	NR	640	192	NR	770	4	NR	900	0	NR
385	0	NR	515	152	NR	645	187	NR	775	4	NR	905	0	NR
390	0	NR	520	160	NR	650	164	NR	780	3	NR	910	0	NR
395	0	NR	525	168	NR	655	138	NR	785	3	NR	915	0	NR
400	1	NR	530	174	NR	660	118	NR	790	2	NR	920	0	NR
405	2	NR	535	180	NR	665	100	NR	795	2	NR	925	0	NR
410	3	NR	540	187	NR	670	94	NR	800	2	NR	930	0	NR
415	5	NR	545	193	NR	675	77	NR	805	1	NR	935	0	NR
420	9	NR	550	200	NR	680	67	NR	810	1	NR	940	0	NR
425	14	NR	555	208	NR	685	58	NR	815	1	NR	945	0	NR
430	23	NR	560	217	NR	690	50	NR	820	1	NR	950	0	NR
435	38	NR	565	226	NR	695	43	NR	825	1	NR	955	0	NR
440	61	NR	570	234	NR	700	37	NR	830	1	NR	960	0	NR
445	103	NR	575	243	NR	705	32	NR	835	1	NR	965	0	NR
450	135	NR	580	252	NR	710	28	NR	840	1	NR	970	0	NR
455	100	NR	585	260	NR	715	23	NR	845	0	NR	975	0	NR
460	72	NR	590	266	NR	720	20	NR	850	0	NR	980	0	NR
465	65	NR	595	268	NR	725	17	NR	855	0	NR	985	0	NR
470	51	NR	600	274	NR	730	15	NR	860	0	NR	990	0	NR
475	45	NR	605	278	NR	735	13	NR	865	0	NR	995	0	NR
480	48	NR	610	317	NR	740	11	NR	870	0	NR	1000	0	NR
485	57	NR	615	350	NR	745	9	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



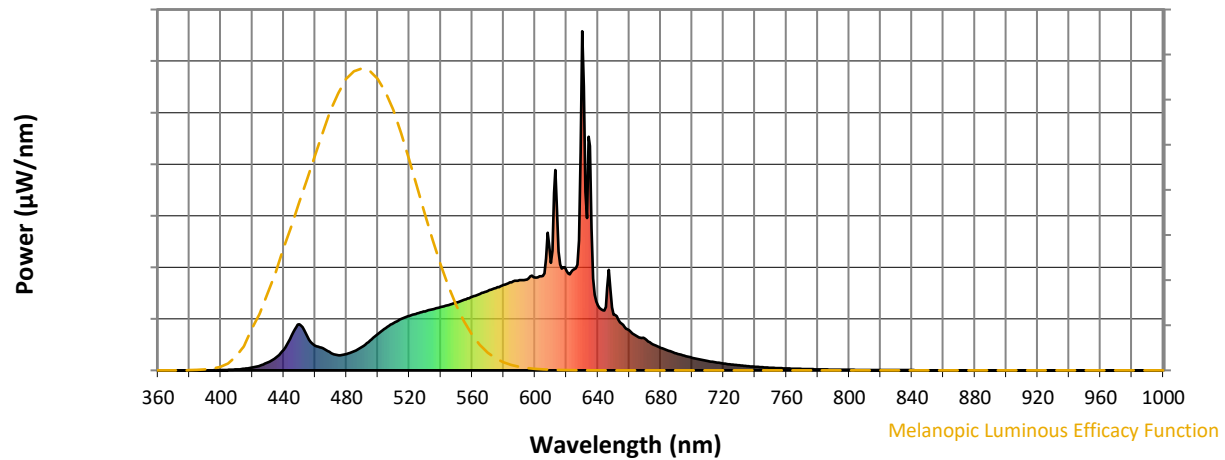
Scotopic Lumens: NR

S/P: 1.28

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	70	NR	620	293	NR	750	8	NR	880	0	NR
365	0	NR	495	88	NR	625	299	NR	755	7	NR	885	0	NR
370	0	NR	500	108	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	125	NR	635	661	NR	765	5	NR	895	0	NR
380	0	NR	510	140	NR	640	192	NR	770	4	NR	900	0	NR
385	0	NR	515	152	NR	645	187	NR	775	4	NR	905	0	NR
390	0	NR	520	160	NR	650	164	NR	780	3	NR	910	0	NR
395	0	NR	525	168	NR	655	138	NR	785	3	NR	915	0	NR
400	1	NR	530	174	NR	660	118	NR	790	2	NR	920	0	NR
405	2	NR	535	180	NR	665	100	NR	795	2	NR	925	0	NR
410	3	NR	540	187	NR	670	94	NR	800	2	NR	930	0	NR
415	5	NR	545	193	NR	675	77	NR	805	1	NR	935	0	NR
420	9	NR	550	200	NR	680	67	NR	810	1	NR	940	0	NR
425	14	NR	555	208	NR	685	58	NR	815	1	NR	945	0	NR
430	23	NR	560	217	NR	690	50	NR	820	1	NR	950	0	NR
435	38	NR	565	226	NR	695	43	NR	825	1	NR	955	0	NR
440	61	NR	570	234	NR	700	37	NR	830	1	NR	960	0	NR
445	103	NR	575	243	NR	705	32	NR	835	1	NR	965	0	NR
450	135	NR	580	252	NR	710	28	NR	840	1	NR	970	0	NR
455	100	NR	585	260	NR	715	23	NR	845	0	NR	975	0	NR
460	72	NR	590	266	NR	720	20	NR	850	0	NR	980	0	NR
465	65	NR	595	268	NR	725	17	NR	855	0	NR	985	0	NR
470	51	NR	600	274	NR	730	15	NR	860	0	NR	990	0	NR
475	45	NR	605	278	NR	735	13	NR	865	0	NR	995	0	NR
480	48	NR	610	317	NR	740	11	NR	870	0	NR	1000	0	NR
485	57	NR	615	350	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

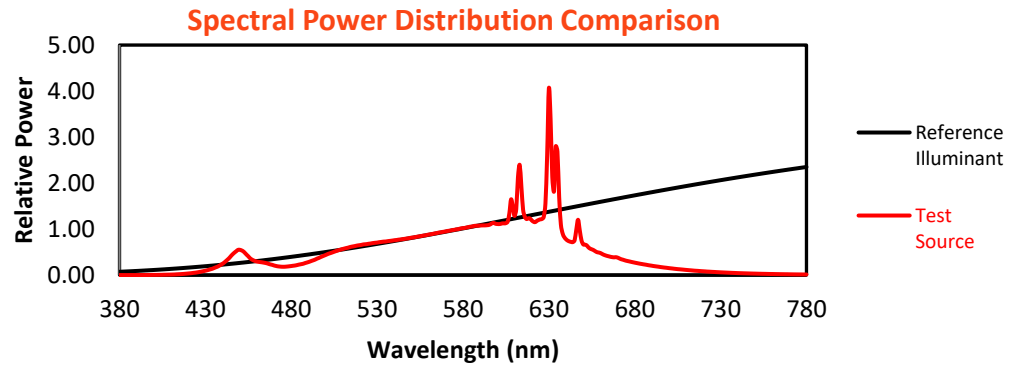
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	70	NR	620	293	NR	750	8	NR	880	0	NR
365	0	NR	495	88	NR	625	299	NR	755	7	NR	885	0	NR
370	0	NR	500	108	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	125	NR	635	661	NR	765	5	NR	895	0	NR
380	0	NR	510	140	NR	640	192	NR	770	4	NR	900	0	NR
385	0	NR	515	152	NR	645	187	NR	775	4	NR	905	0	NR
390	0	NR	520	160	NR	650	164	NR	780	3	NR	910	0	NR
395	0	NR	525	168	NR	655	138	NR	785	3	NR	915	0	NR
400	1	NR	530	174	NR	660	118	NR	790	2	NR	920	0	NR
405	2	NR	535	180	NR	665	100	NR	795	2	NR	925	0	NR
410	3	NR	540	187	NR	670	94	NR	800	2	NR	930	0	NR
415	5	NR	545	193	NR	675	77	NR	805	1	NR	935	0	NR
420	9	NR	550	200	NR	680	67	NR	810	1	NR	940	0	NR
425	14	NR	555	208	NR	685	58	NR	815	1	NR	945	0	NR
430	23	NR	560	217	NR	690	50	NR	820	1	NR	950	0	NR
435	38	NR	565	226	NR	695	43	NR	825	1	NR	955	0	NR
440	61	NR	570	234	NR	700	37	NR	830	1	NR	960	0	NR
445	103	NR	575	243	NR	705	32	NR	835	1	NR	965	0	NR
450	135	NR	580	252	NR	710	28	NR	840	1	NR	970	0	NR
455	100	NR	585	260	NR	715	23	NR	845	0	NR	975	0	NR
460	72	NR	590	266	NR	720	20	NR	850	0	NR	980	0	NR
465	65	NR	595	268	NR	725	17	NR	855	0	NR	985	0	NR
470	51	NR	600	274	NR	730	15	NR	860	0	NR	990	0	NR
475	45	NR	605	278	NR	735	13	NR	865	0	NR	995	0	NR
480	48	NR	610	317	NR	740	11	NR	870	0	NR	1000	0	NR
485	57	NR	615	350	NR	745	9	NR	875	0	NR			

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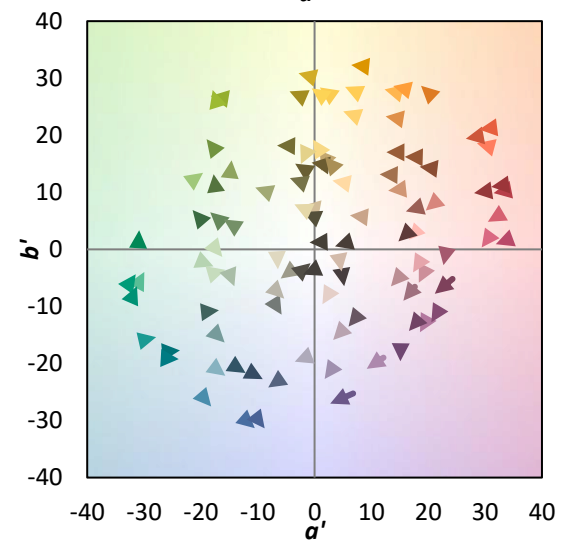
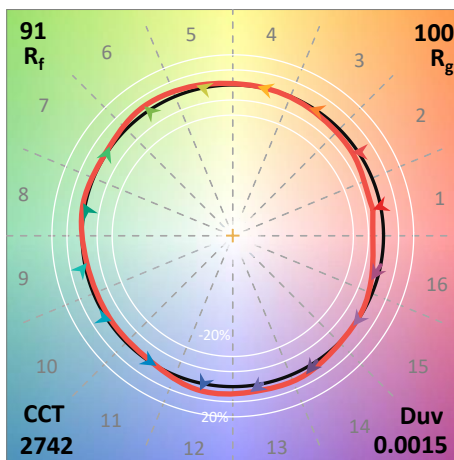
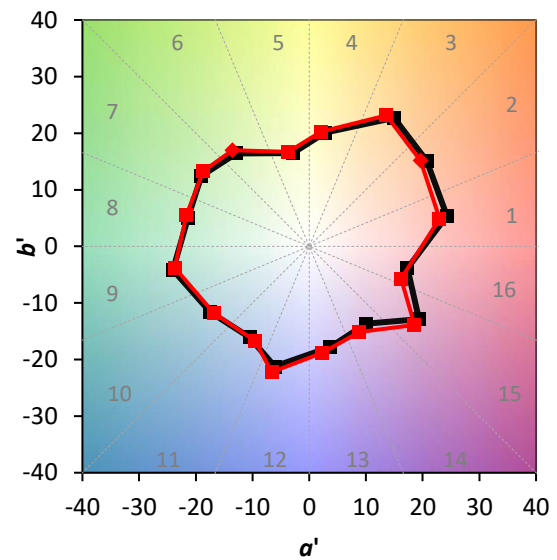
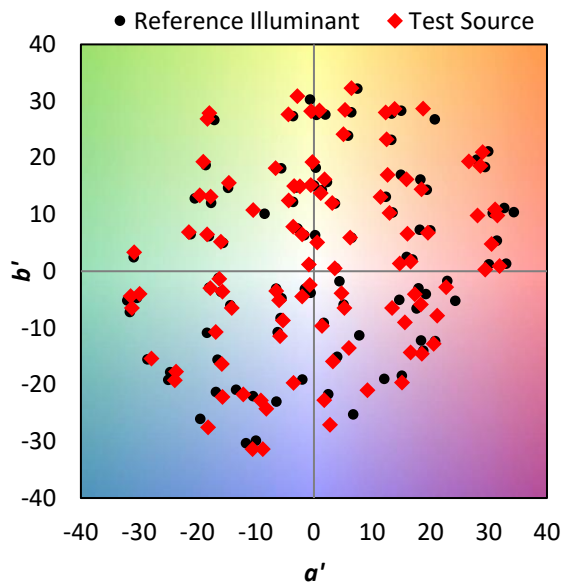
TM-30-18

Summary

$R_f = 91.5$
 $R_g = 100.2$
 $CIE R_a = 93.2$
 $R_9 = 55.9$

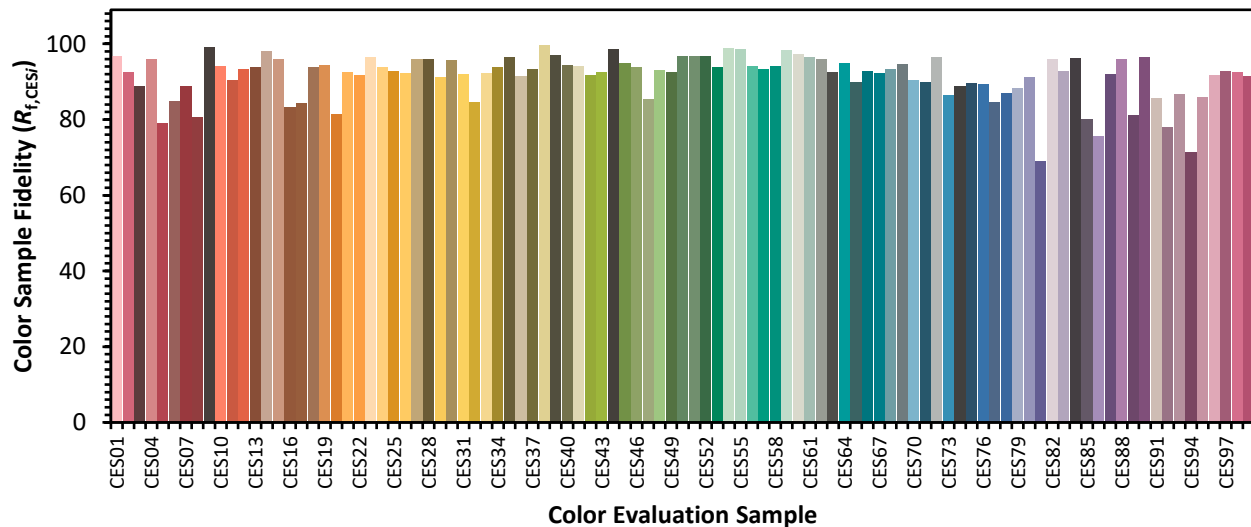


Color Vector Graphics

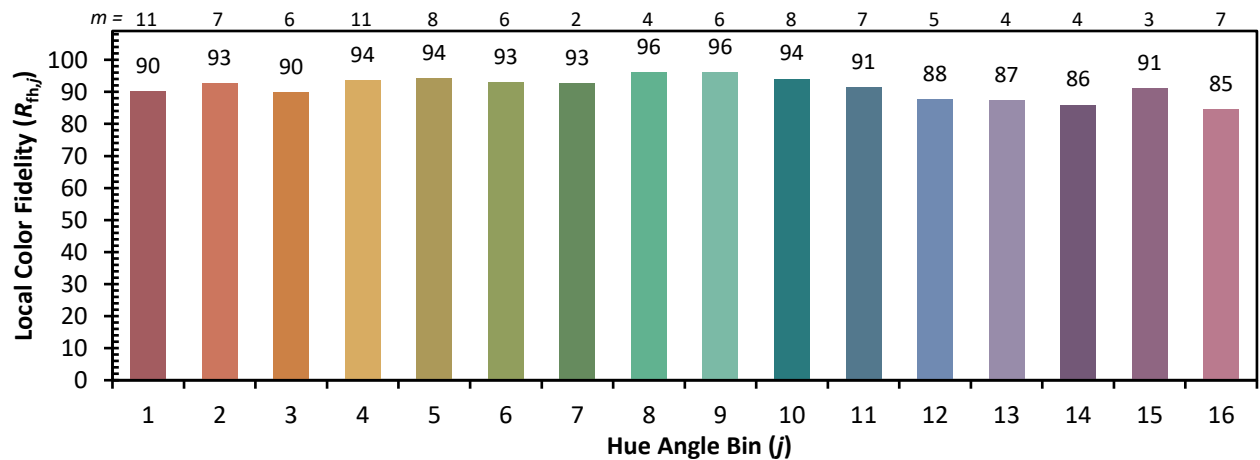
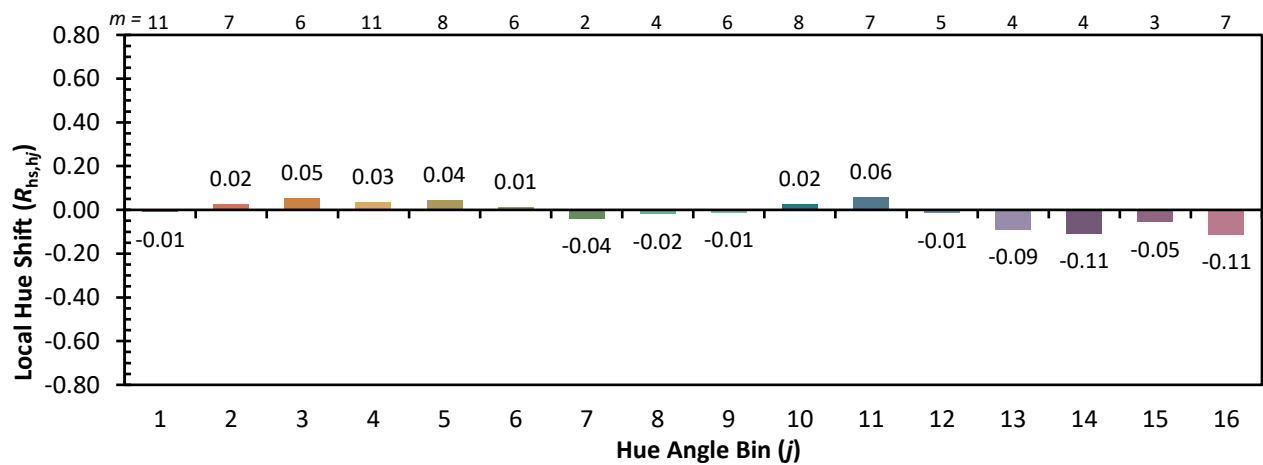
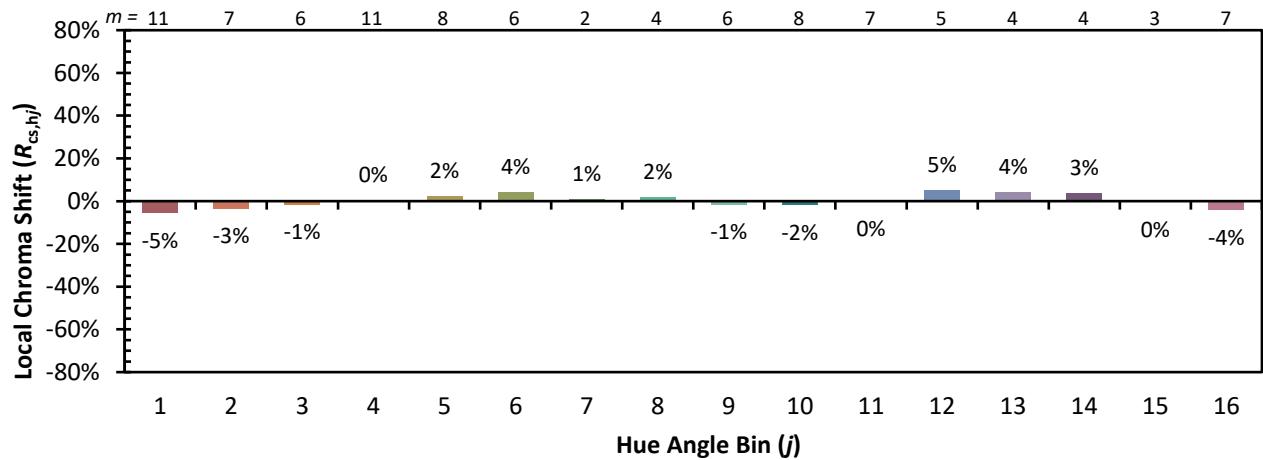


Individual Sample Fidelity Index ($R_{f,i}$)

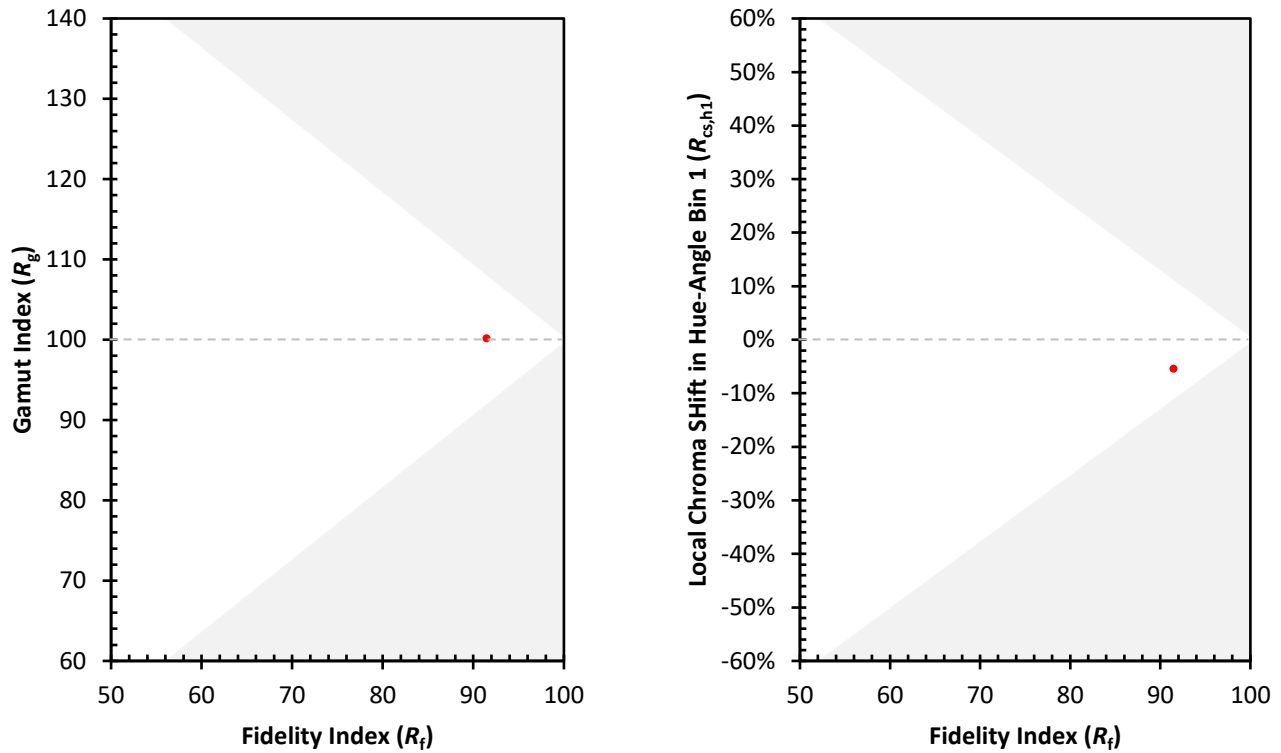
CES01 = 86	CES26 = 92	CES51 = 97	CES76 = 89
CES02 = 64	CES27 = 96	CES52 = 97	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 94	CES78 = 87
CES04 = 70	CES29 = 91	CES54 = 99	CES79 = 88
CES05 = 51	CES30 = 96	CES55 = 99	CES80 = 91
CES06 = 51	CES31 = 92	CES56 = 94	CES81 = 69
CES07 = 44	CES32 = 85	CES57 = 93	CES82 = 96
CES08 = 43	CES33 = 92	CES58 = 94	CES83 = 93
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 96
CES10 = 77	CES35 = 97	CES60 = 97	CES85 = 80
CES11 = 59	CES36 = 91	CES61 = 97	CES86 = 76
CES12 = 66	CES37 = 93	CES62 = 96	CES87 = 92
CES13 = 44	CES38 = 100	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 95	CES89 = 81
CES15 = 72	CES40 = 94	CES65 = 90	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 93	CES91 = 86
CES17 = 50	CES42 = 92	CES67 = 92	CES92 = 78
CES18 = 57	CES43 = 92	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 71
CES20 = 68	CES45 = 95	CES70 = 90	CES95 = 86
CES21 = 87	CES46 = 94	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 93	CES73 = 86	CES98 = 92
CES24 = 91	CES49 = 93	CES74 = 89	CES99 = 91
CES25 = 72	CES50 = 97	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)