

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: FAIL-SAFE

Report Number: P1357392

Luminaire Tested: 6ASL4-5HE-2-R63-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 6ASL4-5HE-2-R63-UNV
Description: 6FT 500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND R63 LEDS 2 ROW
Light Source: -
Ballast/Driver: -

Summary

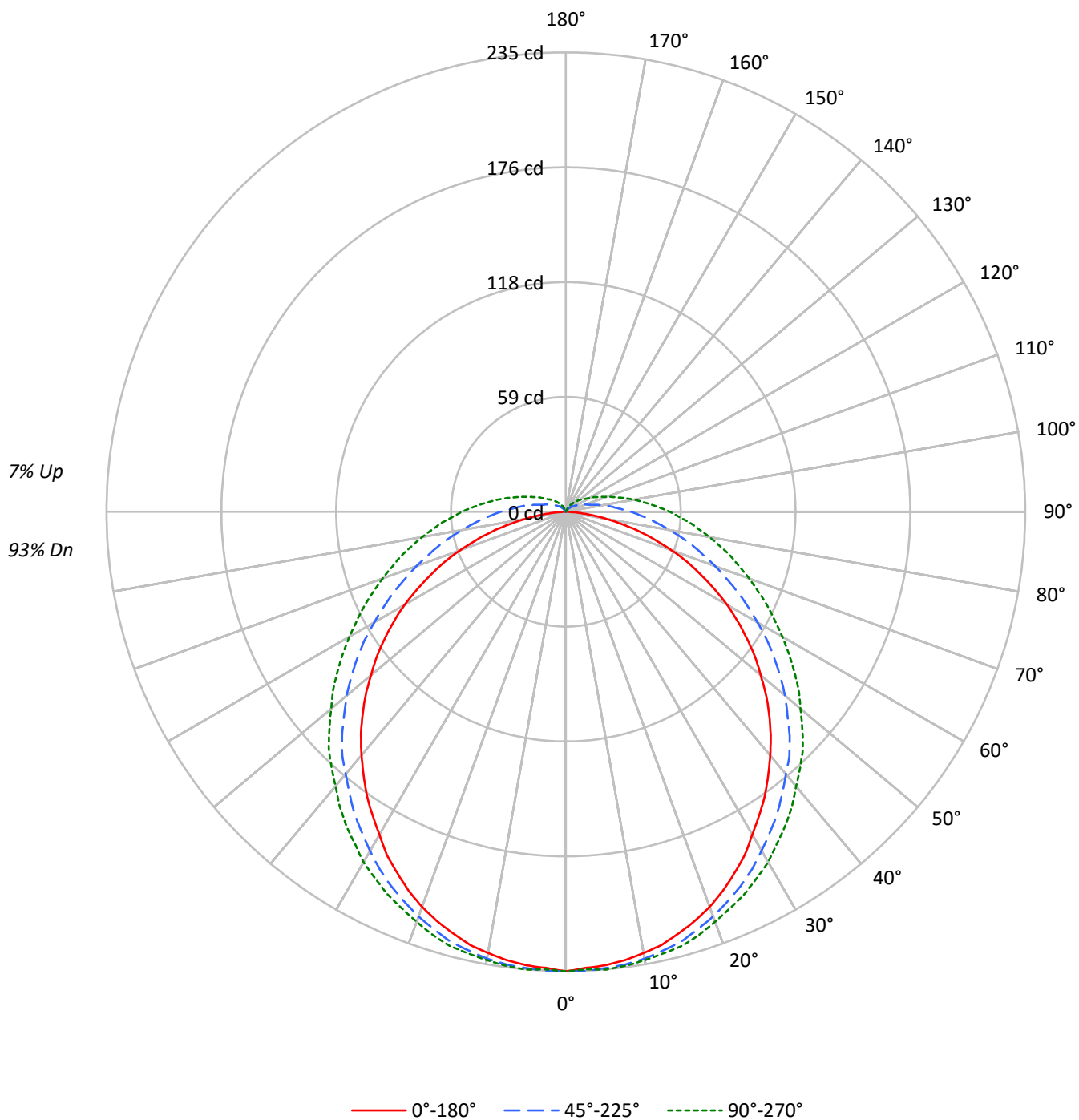
Lumens per Lamp: N/A
Luminaire Lumens: 807.0 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 5.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 18.2
Input Voltage (V): NR
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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Luminous Intensity Polar Plot



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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	117	117	117	117	114	114	114	114	107	107	107		101	101	101		95
1	105	100	95	90	102	97	92	88	91	87	84		86	83	80		81
2	95	86	79	72	92	84	77	71	79	73	68		74	70	65		70
3	86	75	66	59	83	73	65	58	69	62	56		65	59	55		62
4	79	66	57	50	76	64	56	49	61	54	48		58	51	46		55
5	72	59	50	43	70	57	49	42	54	47	41		52	45	40		49
6	67	53	44	37	64	52	43	37	49	41	36		47	40	35		44
7	62	48	39	33	60	47	38	32	45	37	32		43	36	31		41
8	58	44	35	29	56	43	34	29	41	33	28		39	32	28		37
9	54	40	32	26	52	39	31	26	37	30	25		36	29	25		34
10	50	37	29	24	49	36	28	23	35	28	23		33	27	22		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1270	1270	1270
5°	1261	1245	1241
10°	1253	1223	1211
15°	1242	1198	1186
20°	1228	1167	1152
25°	1206	1136	1123
30°	1177	1101	1094
35°	1156	1068	1060
40°	1130	1033	1024
45°	1104	1003	998
50°	1071	962	959
55°	1039	919	929
60°	1000	870	896
65°	937	825	871
70°	870	782	848
75°	768	751	840
80°	606	723	838
85°	382	725	862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	2.8
10°-20°	64.1	7.9
20°-30°	97.1	12.0
30°-40°	117.4	14.6
40°-50°	123.8	15.3
50°-60°	115.6	14.3
60°-70°	95.4	11.8
70°-80°	69.2	8.6
80°-90°	43.7	5.4
90°-100°	26.1	3.2
100°-110°	15.0	1.9
110°-120°	8.5	1.1
120°-130°	4.8	0.6
130°-140°	2.6	0.3
140°-150°	1.1	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	183.5	22.7
0°-40°	300.9	37.3
0°-60°	540.3	67.0
0°-90°	748.6	92.8
90°-120°	49.6	6.1
90°-150°	58.2	7.2
90°-180°	58.0	7.2
0°-180°	807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	235	235	235	235	235	
5°	233	235	234	234	235	22
15°	223	226	228	228	230	63
25°	204	207	211	214	216	94
35°	177	182	188	194	196	111
45°	147	153	162	168	172	113
55°	113	120	130	139	143	101
65°	76	84	97	109	114	76
75°	39	50	67	81	87	41
85°	7	23	43	58	64	9
90°	0	14	33	47	53	0
95°	0	9	25	38	44	0
105°	0	3	14	24	28	0
115°	0	2	8	15	18	0
125°	0	1	5	10	11	0
135°	0	0	3	6	7	0
145°	0	0	2	4	4	0
155°	0	0	0	1	2	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	235.1	235.1	235.1	235.1	235.1
2.5°	233.6	235.8	235.1	234.3	234.3
5°	232.9	235.1	234.3	234.3	235.1
7.5°	231.4	233.6	233.6	233.6	234.3
10°	229.2	232.1	232.1	232.1	232.9
12.5°	226.9	229.2	229.9	230.6	231.4
15°	223.2	226.2	227.7	228.4	229.9
17.5°	219.5	221.8	224.0	226.2	226.9
20°	215.1	218.1	220.3	222.5	223.2
22.5°	209.9	212.9	215.9	218.1	219.5
25°	204.0	207.0	211.4	214.4	215.9
27.5°	198.1	201.1	206.2	209.9	211.4
30°	190.7	195.2	200.3	204.8	207.0
32.5°	184.1	188.5	194.4	199.6	201.1
35°	177.4	181.8	188.5	193.7	195.9
37.5°	170.0	175.2	181.8	187.8	190.0
40°	162.6	167.8	175.2	181.8	183.3
42.5°	155.2	160.4	169.3	175.2	177.4
45°	147.1	153.0	161.9	168.5	171.5
47.5°	139.0	144.9	153.8	161.1	164.1
50°	130.1	136.8	146.4	153.8	156.7
52.5°	122.0	128.6	138.2	146.4	150.1
55°	113.1	119.8	130.1	139.0	142.7
57.5°	104.2	110.9	122.0	131.6	135.3
60°	95.4	102.0	113.1	124.2	127.9
62.5°	85.7	93.1	105.0	116.1	120.5
65°	76.1	84.3	96.8	108.7	113.8
67.5°	67.3	75.4	88.7	102.0	106.4
70°	57.7	66.5	81.3	94.6	99.8
72.5°	48.0	57.7	73.9	88.0	93.1
75°	39.2	49.5	67.3	81.3	87.2
77.5°	29.6	42.1	60.6	75.4	80.6
80°	21.4	34.7	54.0	69.5	74.7
82.5°	14.0	28.1	48.0	63.6	68.7
85°	7.4	22.9	42.9	57.7	63.6
87.5°	2.2	17.7	37.7	52.5	57.7
90°	0.0	14.0	33.3	47.3	53.2
92.5°	0.0	11.1	28.8	42.9	48.0
95°	0.0	8.9	25.1	38.4	43.6
97.5°	0.0	7.4	22.2	34.7	39.2
100°	0.0	5.9	19.2	31.0	35.5
102.5°	0.0	4.4	16.3	27.4	31.8
105°	0.0	3.0	14.0	24.4	28.1
107.5°	0.0	2.2	11.8	21.4	25.1
110°	0.0	2.2	11.1	18.5	22.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.5	9.6	17.0	20.0
115°	0.0	1.5	8.1	14.8	17.7
117.5°	0.0	1.5	7.4	13.3	16.3
120°	0.0	1.5	6.7	11.8	14.0
122.5°	0.0	0.7	5.9	10.3	12.6
125°	0.0	0.7	5.2	9.6	11.1
127.5°	0.0	0.7	4.4	8.9	10.3
130°	0.0	0.7	4.4	8.1	9.6
132.5°	0.0	0.0	3.7	7.4	8.9
135°	0.0	0.0	3.0	5.9	7.4
137.5°	0.0	0.0	3.0	5.2	6.7
140°	0.0	0.0	2.2	5.2	5.9
142.5°	0.0	0.0	1.5	4.4	5.2
145°	0.0	0.0	1.5	3.7	4.4
147.5°	0.0	0.0	0.7	3.0	3.7
150°	0.0	0.0	0.7	2.2	3.0
152.5°	0.0	0.0	0.0	1.5	2.2
155°	0.0	0.0	0.0	0.7	1.5
157.5°	0.0	0.0	0.0	0.0	0.7
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

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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	10.15	11.69	10.62	12.15	12.64	12.24	13.78	12.71	14.24	14.73
	3H	11.65	13.05	12.14	13.52	14.06	14.70	16.10	15.19	16.57	17.10
	4H	12.13	13.46	12.64	13.95	14.49	15.92	17.25	16.43	17.74	18.28
	6H	12.41	13.64	12.93	14.15	14.71	17.21	18.45	17.73	18.95	19.51
	8H	12.46	13.65	12.99	14.17	14.74	17.89	19.07	18.42	19.60	20.16
	12H	12.48	13.61	13.01	14.13	14.73	18.64	19.78	19.18	20.30	20.89
4H	2H	11.04	12.36	11.54	12.85	13.40	12.67	14.00	13.18	14.48	15.03
	3H	12.78	13.91	13.30	14.44	15.01	15.36	16.49	15.88	17.02	17.59
	4H	13.39	14.42	13.93	14.96	15.56	16.76	17.79	17.30	18.33	18.93
	6H	13.79	14.70	14.35	15.27	15.88	18.24	19.16	18.80	19.73	20.34
	8H	13.88	14.75	14.45	15.31	15.94	19.03	19.89	19.59	20.45	21.08
	12H	13.93	14.71	14.52	15.31	15.94	19.90	20.69	20.49	21.28	21.91
8H	4H	14.09	14.95	14.65	15.52	16.14	16.98	17.84	17.54	18.40	19.03
	6H	14.68	15.41	15.27	16.01	16.65	18.64	19.37	19.23	19.98	20.61
	8H	14.86	15.52	15.47	16.14	16.78	19.56	20.22	20.17	20.84	21.49
	12H	14.98	15.57	15.59	16.18	16.89	20.63	21.22	21.24	21.83	22.54
12H	4H	14.29	15.08	14.88	15.67	16.30	16.98	17.77	17.57	18.36	18.99
	6H	14.98	15.64	15.59	16.26	16.91	18.68	19.34	19.28	19.96	20.60
	8H	15.27	15.86	15.88	16.47	17.18	19.67	20.26	20.28	20.87	21.58

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-7

Test Date: 01/21/2026

Luminaire Tested: 4ASL-2-R630-UNV-OPL-1_600mA

Data in this report applies to families of products including 4ASL

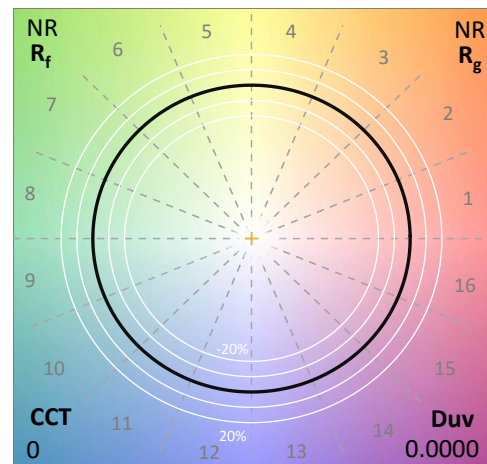
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/29/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-R630-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND RED 630NM LEDS with 1 rows at 600mA

Spectral Parameters

CCT (K): 0
 CIE u' : 0.5395
 CIE v' : 0.5190
 Duv: 0.0000
 CIE x: 0.7004
 CIE y: 0.2995
 CIE z: 0.0001
 Peak Wavelength (nm): 638
 Dominant Wavelength (nm): 624
 Purity: 99.9862
 R_f: NR
 R_g: NR

CRI (Ra): 0.0
 R1: 0.0
 R2: 0.0
 R3: 0.0
 R4: 0.0
 R5: 0.0
 R6: 0.0
 R7: 0.0
 R8: 0.0
 R9: 0.0
 R10: 0.0
 R11: 0.0
 R12: 0.0
 R13: 0.0
 R14: 0.0
 R15: 0.0



Test Conditions

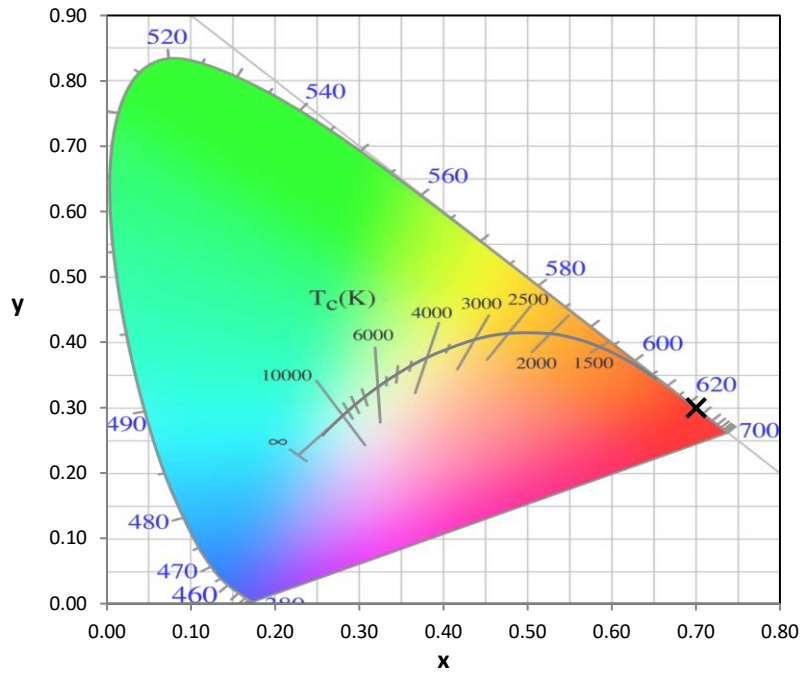
Stabilization Time: 69M
 Operation Time: 2H 9M
 Sphere Temperature (°C): 25.1

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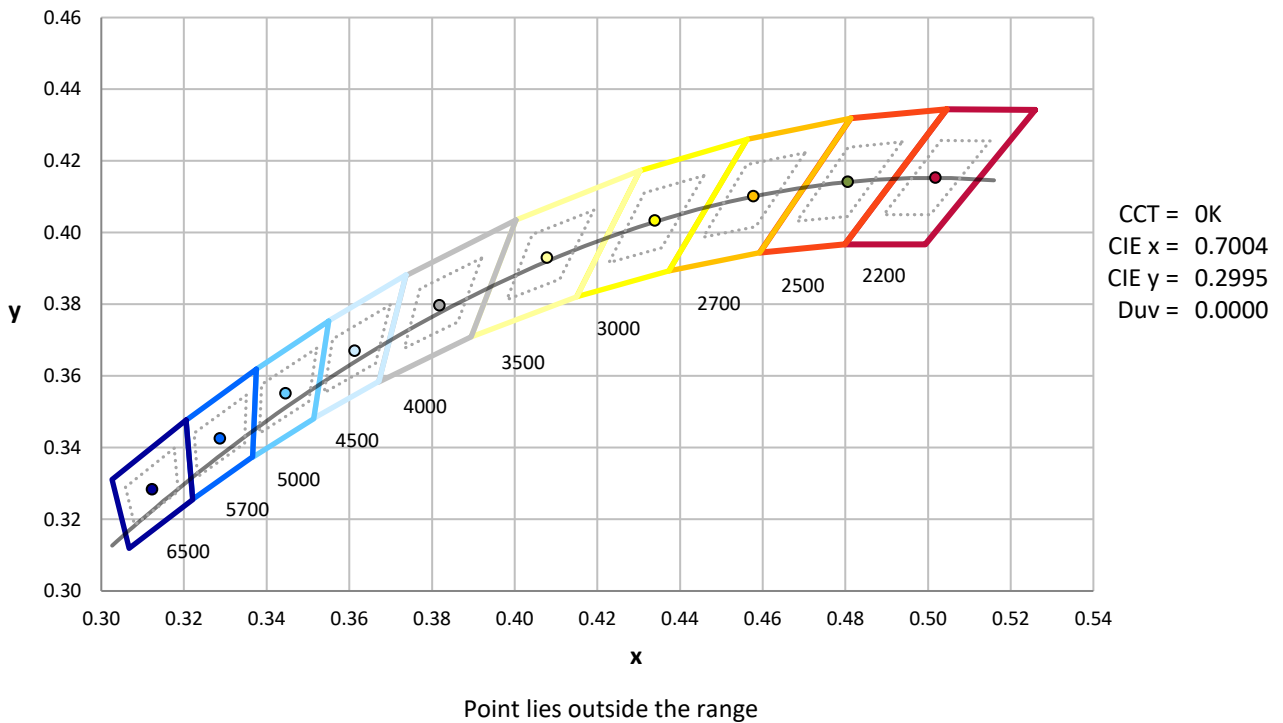
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram

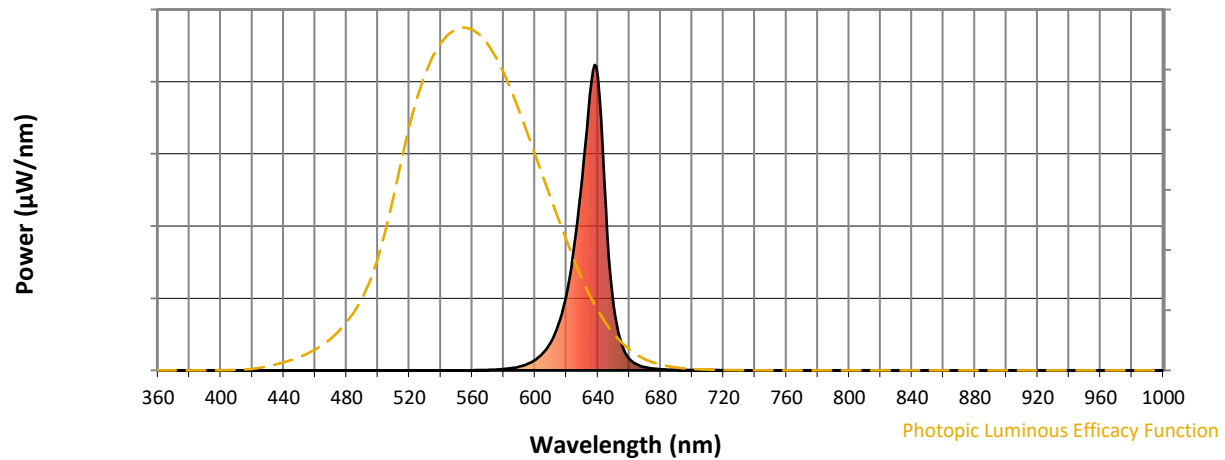


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

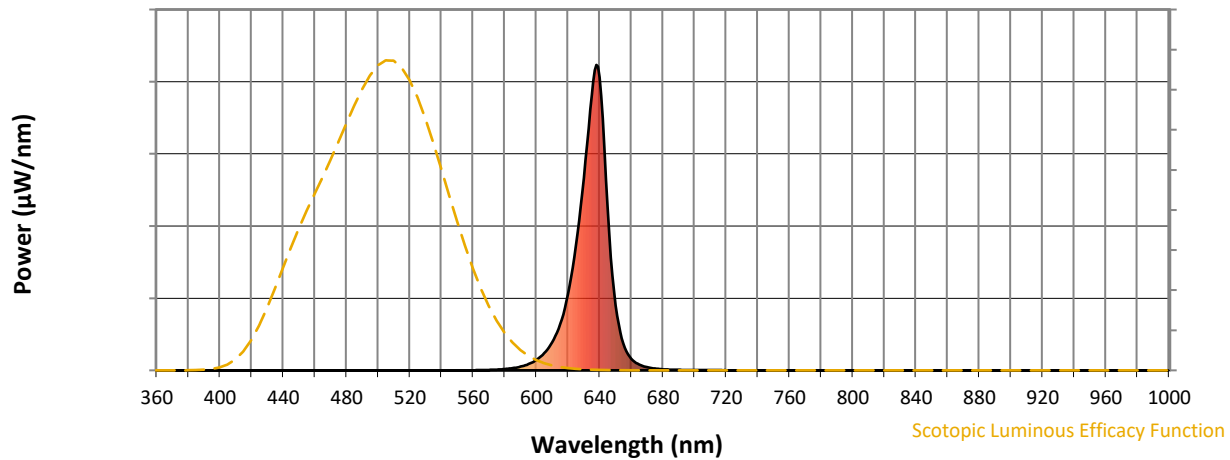


Photopic Lumens: NR

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



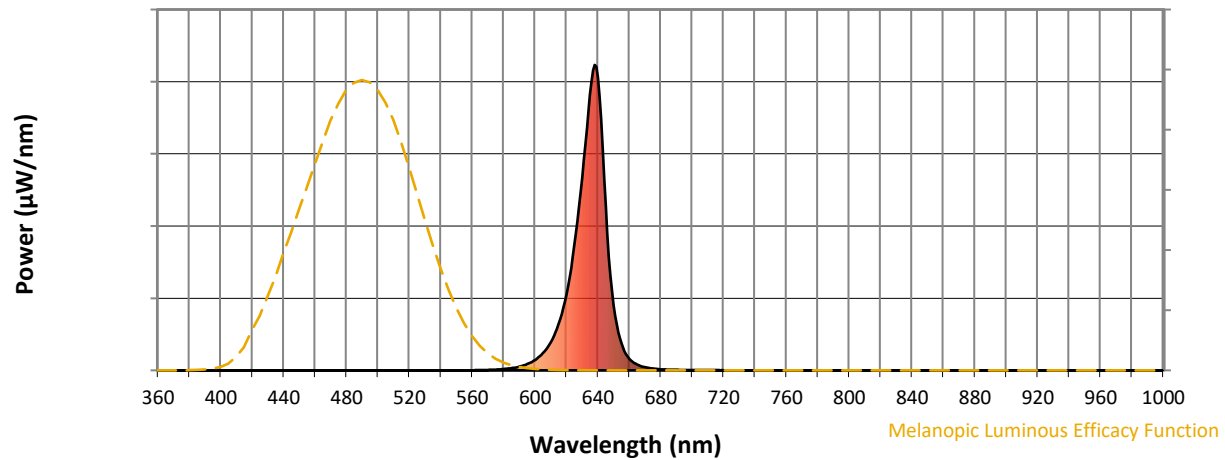
Scotopic Lumens: NR

S/P: 0.05

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	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.02

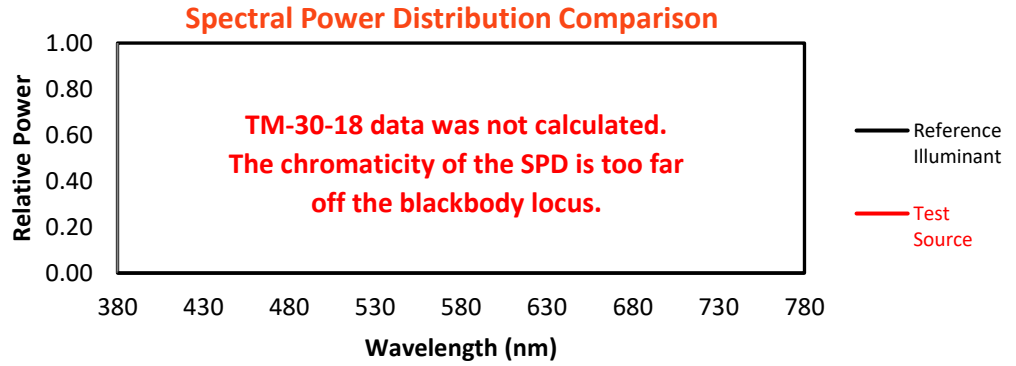
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	0	NR	620	248	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	409	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	630	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	903	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	960	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	535	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	212	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	88	NR	785	0	NR	915	0	NR
400	0	NR	530	0	NR	660	38	NR	790	0	NR	920	0	NR
405	0	NR	535	0	NR	665	19	NR	795	0	NR	925	0	NR
410	0	NR	540	0	NR	670	10	NR	800	0	NR	930	0	NR
415	0	NR	545	0	NR	675	6	NR	805	0	NR	935	0	NR
420	0	NR	550	0	NR	680	4	NR	810	0	NR	940	0	NR
425	0	NR	555	0	NR	685	2	NR	815	0	NR	945	0	NR
430	0	NR	560	0	NR	690	2	NR	820	0	NR	950	0	NR
435	0	NR	565	1	NR	695	1	NR	825	0	NR	955	0	NR
440	0	NR	570	2	NR	700	1	NR	830	0	NR	960	0	NR
445	0	NR	575	3	NR	705	1	NR	835	0	NR	965	0	NR
450	0	NR	580	4	NR	710	1	NR	840	0	NR	970	0	NR
455	0	NR	585	7	NR	715	1	NR	845	0	NR	975	0	NR
460	0	NR	590	12	NR	720	1	NR	850	0	NR	980	0	NR
465	0	NR	595	20	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	34	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	56	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	92	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	152	NR	745	0	NR	875	0	NR			

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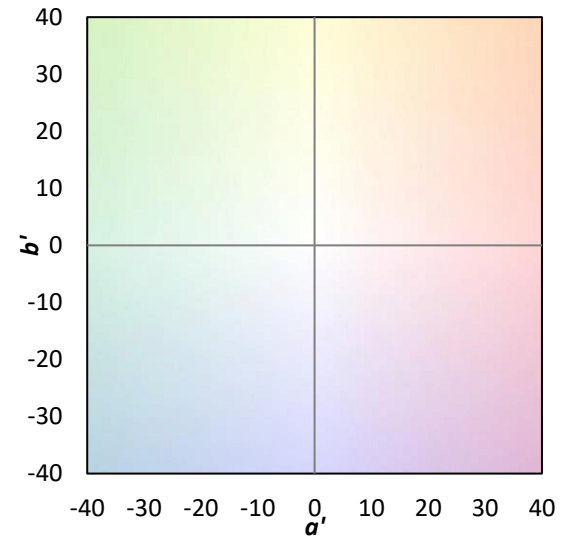
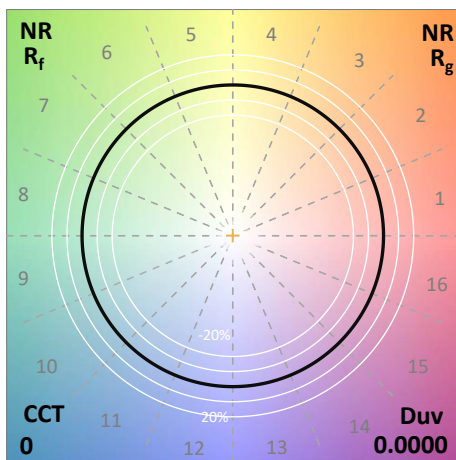
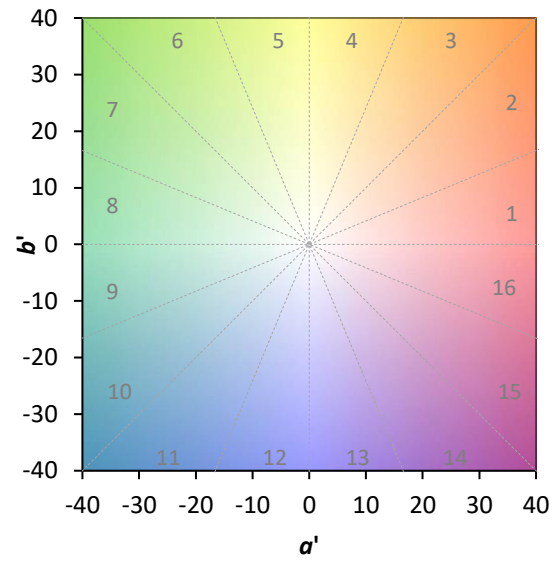
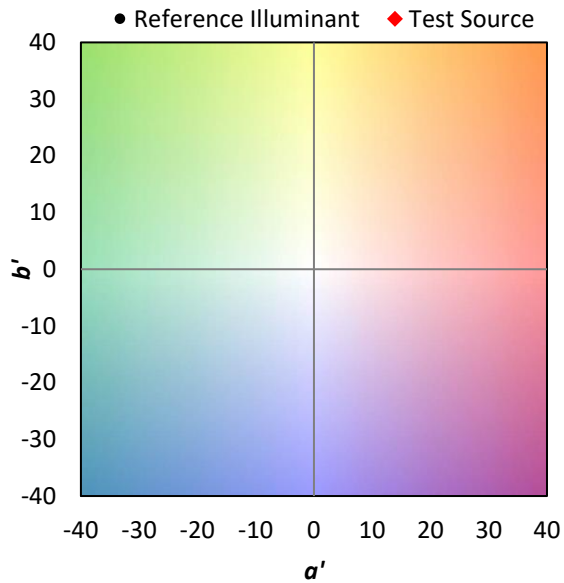
TM-30-18

Summary

$R_f = 0$
 $R_g = 0$
 CIE $R_a = 0.0$
 $R_9 = 0.0$



Color Vector Graphics

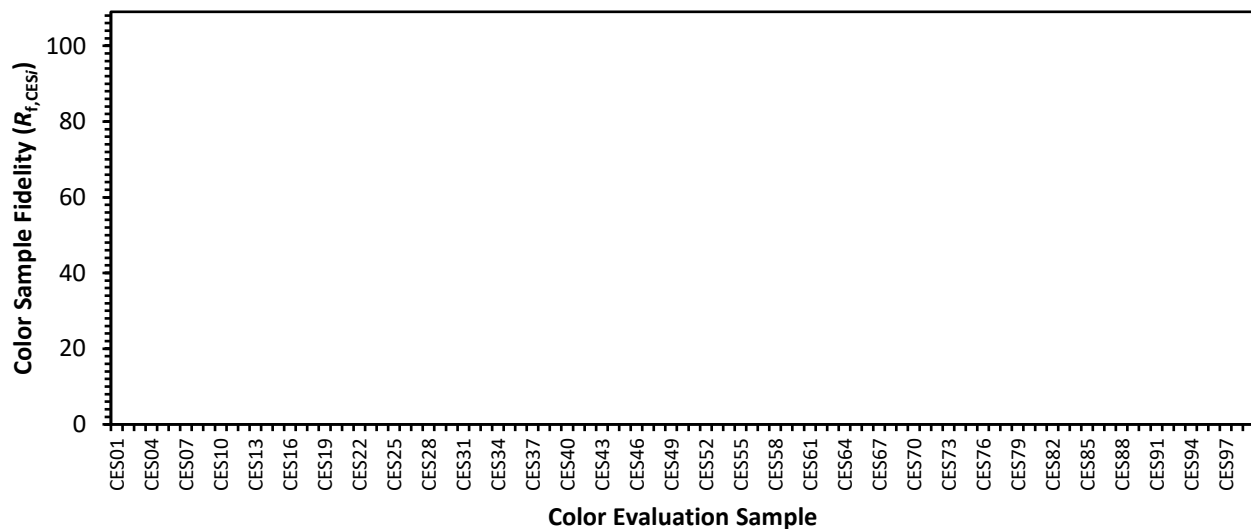


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Individual Sample Fidelity Index ($R_{f,i}$)

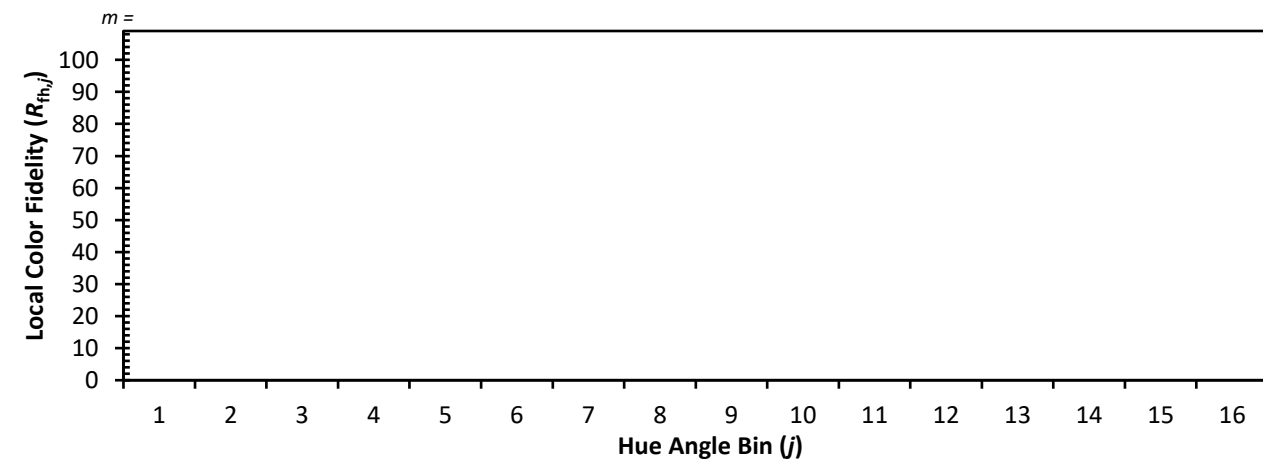
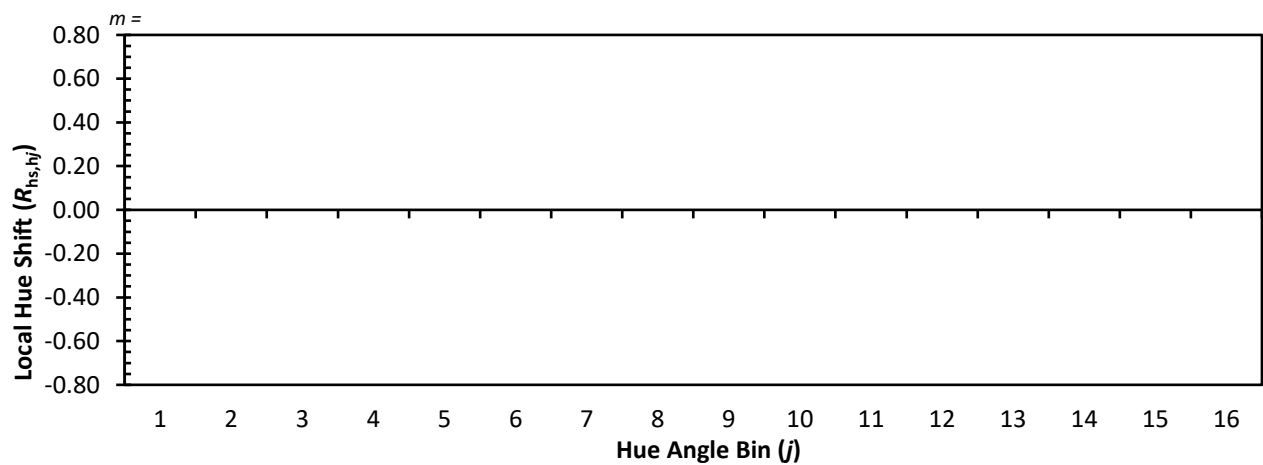
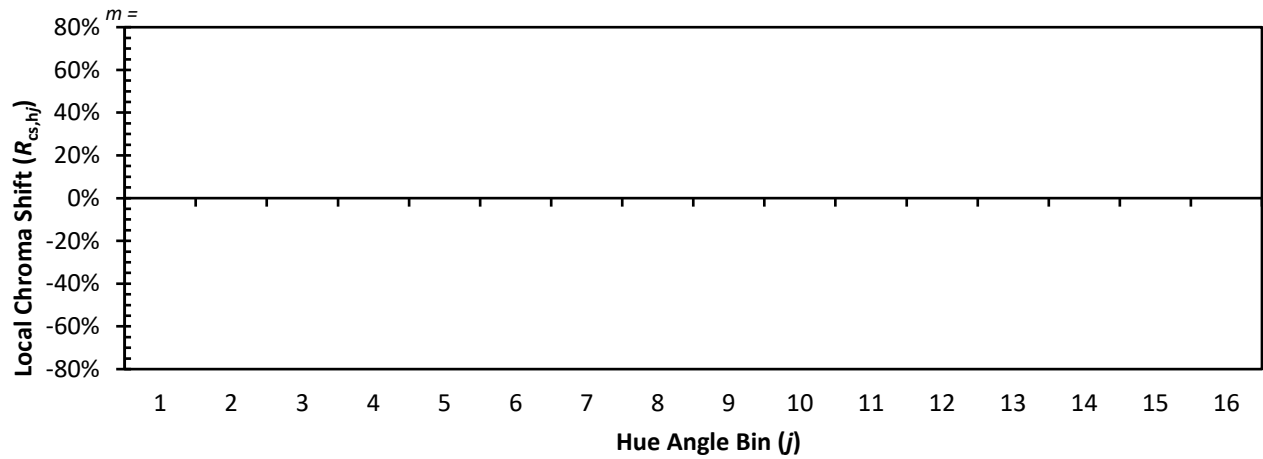
CES01 = 0	CES26 = 0	CES51 = 0	CES76 = 0
CES02 = 0	CES27 = 0	CES52 = 0	CES77 = 0
CES03 = 0	CES28 = 0	CES53 = 0	CES78 = 0
CES04 = 0	CES29 = 0	CES54 = 0	CES79 = 0
CES05 = 0	CES30 = 0	CES55 = 0	CES80 = 0
CES06 = 0	CES31 = 0	CES56 = 0	CES81 = 0
CES07 = 0	CES32 = 0	CES57 = 0	CES82 = 0
CES08 = 0	CES33 = 0	CES58 = 0	CES83 = 0
CES09 = 0	CES34 = 0	CES59 = 0	CES84 = 0
CES10 = 0	CES35 = 0	CES60 = 0	CES85 = 0
CES11 = 0	CES36 = 0	CES61 = 0	CES86 = 0
CES12 = 0	CES37 = 0	CES62 = 0	CES87 = 0
CES13 = 0	CES38 = 0	CES63 = 0	CES88 = 0
CES14 = 0	CES39 = 0	CES64 = 0	CES89 = 0
CES15 = 0	CES40 = 0	CES65 = 0	CES90 = 0
CES16 = 0	CES41 = 0	CES66 = 0	CES91 = 0
CES17 = 0	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 0	CES43 = 0	CES68 = 0	CES93 = 0
CES19 = 0	CES44 = 0	CES69 = 0	CES94 = 0
CES20 = 0	CES45 = 0	CES70 = 0	CES95 = 0
CES21 = 0	CES46 = 0	CES71 = 0	CES96 = 0
CES22 = 0	CES47 = 0	CES72 = 0	CES97 = 0
CES23 = 0	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 0	CES49 = 0	CES74 = 0	CES99 = 0
CES25 = 0	CES50 = 0	CES75 = 0	



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Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)