

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: IRiS

Report Number: P1256427

Luminaire Tested: P3A02R709040DE010 E3LSWW1H

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1256427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R709040DE010 E3LSWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LSWW1H TRIM
Light Source: -
Ballast/Driver: -

Summary

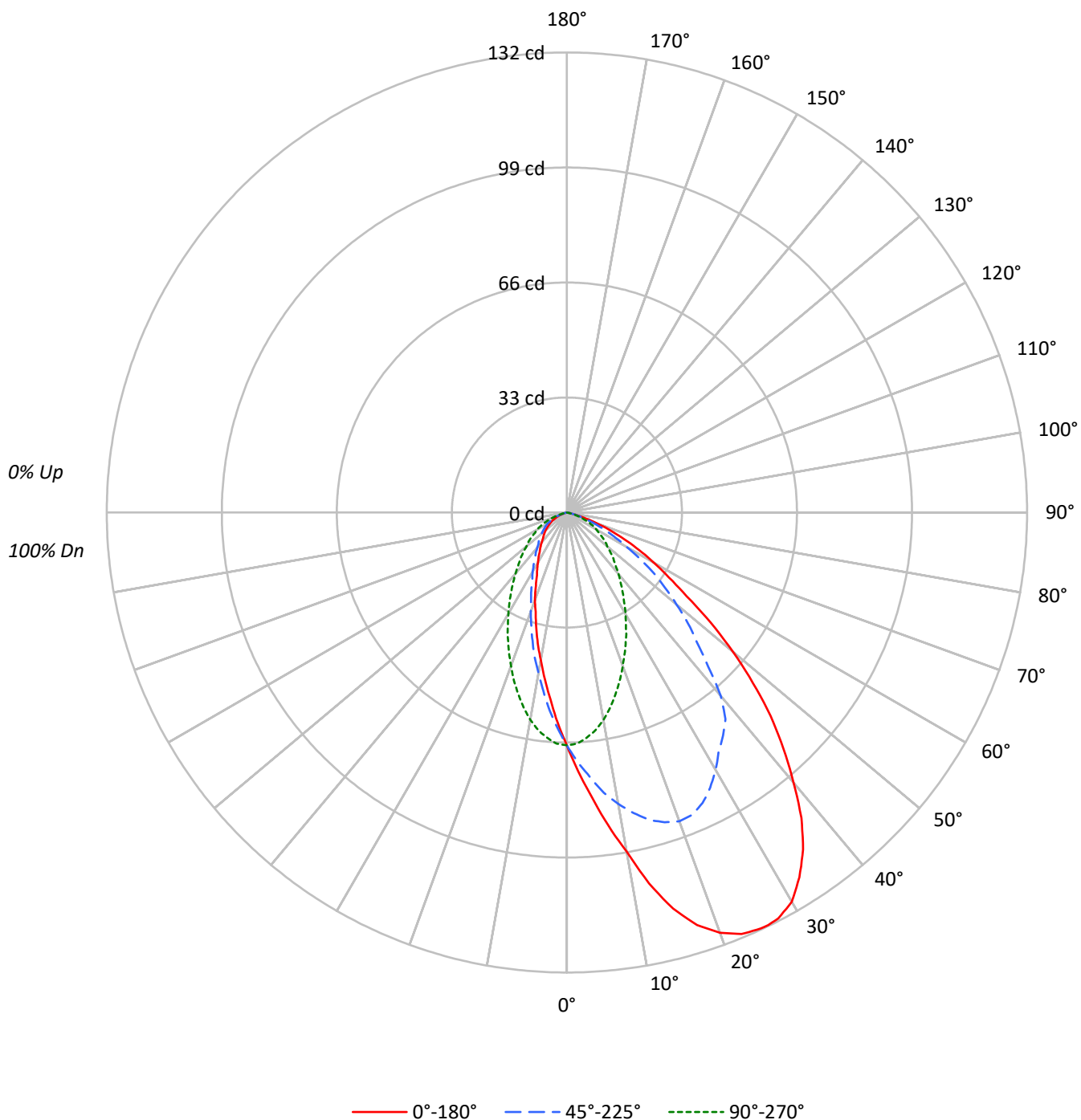
Lumens per Lamp: N/A
Luminaire Lumens: 133.0 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1256427

CATALOG NUMBER: P3A02R709040DE010 E3LSWW1H

Luminous Intensity Polar Plot



TEST NUMBER: P1256427

CATALOG NUMBER: P3A02R709040DE010 E3LSWW1H

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14648	14648	14648	14648	14648
5°	18028	16773	14286	12547	11864
10°	21999	18904	13449	10421	9575
15°	26720	20727	12236	8649	7719
20°	29939	22005	10921	7047	6254
25°	31865	22259	9678	5831	4936
30°	32663	21598	8508	4963	4203
35°	31614	20907	7469	4230	3641
40°	28940	19665	6584	3779	3235
45°	25615	16374	5861	3504	2915
50°	21219	14021	5151	3207	2695
55°	16019	11699	4741	3020	2447
60°	12587	8771	4298	2807	2149
65°	9391	6434	3736	2335	1764
70°	6027	4103	2629	1667	962
75°	2542	2203	1271	678	339
80°	505	505	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25615 cd/sqm

TEST NUMBER: P1256427

CATALOG NUMBER: P3A02R709040DE010 E3LSWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	4.8
10°-20°	18.2	13.7
20°-30°	26.7	20.0
30°-40°	29.0	21.8
40°-50°	25.1	18.9
50°-60°	16.8	12.7
60°-70°	8.7	6.5
70°-80°	2.1	1.5
80°-90°	0.0	0.0
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°-30°	51.2	38.5
0°-40°	80.3	60.3
0°-60°	122.2	91.9
0°-90°	133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	133.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	67	67	67	67	67	
5°	82	76	65	57	54	8
15°	118	91	54	38	34	33
25°	132	92	40	24	20	60
35°	118	78	28	16	14	73
45°	83	53	19	11	9	63
55°	42	31	12	8	6	39
65°	18	12	7	4	3	18
75°	3	3	2	1	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1256427

CATALOG NUMBER: P3A02R709040DE010 E3LSWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2.5°	74.3	73.9	73.9	73.2	72.4	71.7	70.5	69.4	68.3	67.1	66.4
5°	81.9	82.2	81.9	80.3	78.5	76.2	73.9	71.3	68.7	66.4	64.9
7.5°	90.5	90.5	89.4	87.5	84.9	81.1	77.3	72.8	68.7	64.9	63.0
10°	98.8	98.8	96.9	93.9	89.8	84.9	79.6	73.6	67.9	62.6	60.4
12.5°	109.0	108.6	106.4	101.5	95.4	88.3	81.1	73.6	66.8	60.4	57.3
15°	117.7	117.3	114.3	108.3	100.3	91.3	81.5	72.8	64.5	57.3	53.9
17.5°	124.1	123.4	120.0	113.5	104.5	93.2	81.9	71.3	61.9	53.9	50.5
20°	128.3	127.9	124.1	116.6	106.8	94.3	81.5	69.4	59.2	50.5	46.8
22.5°	130.9	130.1	126.4	118.1	106.8	93.9	80.0	66.8	55.8	47.2	43.4
25°	131.7	131.3	126.7	117.7	105.6	92.0	77.7	64.1	52.4	43.8	40.0
26°	131.7	131.3	126.7	117.3	104.9	90.9	76.6	63.0	51.3	42.2	38.9
27.5°	131.3	130.9	126.0	116.2	103.4	89.0	74.3	60.7	49.0	40.4	36.6
30°	129.0	128.3	123.4	113.5	100.0	85.3	70.5	57.3	45.6	37.0	33.6
32.5°	124.1	123.4	118.1	109.0	96.2	81.1	66.4	53.6	42.2	33.6	30.6
35°	118.1	117.3	112.0	103.4	90.9	78.1	61.9	49.4	38.5	30.9	27.9
37.5°	110.5	109.4	104.9	95.8	84.5	74.7	58.1	45.3	35.1	27.9	25.3
40°	101.1	100.7	96.6	88.3	77.0	68.7	55.8	45.3	32.1	25.3	23.0
42.5°	92.0	91.3	87.5	80.3	70.2	60.0	49.0	43.4	29.8	22.6	20.7
45°	82.6	81.9	78.5	72.4	63.0	52.8	42.8	37.3	25.7	20.7	18.9
47.5°	72.4	71.7	69.0	64.5	56.2	47.2	38.5	30.6	23.4	18.5	17.0
50°	62.2	62.6	60.4	55.8	49.4	41.1	33.2	25.7	20.0	16.6	15.1
52.5°	52.1	51.7	50.2	47.2	42.6	35.5	28.3	21.9	17.4	14.7	14.0
55°	41.9	42.2	41.5	39.6	35.8	30.6	23.8	18.9	15.5	13.2	12.4
57.5°	34.7	35.1	33.6	32.4	29.4	24.9	19.6	15.8	13.2	11.7	10.9
60°	28.7	29.0	27.9	26.4	24.1	20.0	15.8	13.2	11.7	10.6	9.8
62.5°	23.4	23.0	22.3	20.7	18.9	15.8	12.8	10.9	9.8	9.1	8.7
65°	18.1	18.1	17.4	16.2	14.7	12.4	10.2	9.1	8.3	7.5	7.2
67.5°	13.6	13.6	12.8	12.1	10.6	9.1	7.9	7.2	6.8	6.0	5.7
70°	9.4	9.4	9.1	8.7	7.5	6.4	6.0	5.3	4.9	4.5	4.1
72.5°	6.0	6.0	6.0	5.3	4.9	4.1	4.1	3.8	3.4	3.0	3.0
75°	3.0	3.4	3.0	3.0	2.6	2.6	2.3	2.3	1.9	1.9	1.5
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

TEST NUMBER: P1256427

CATALOG NUMBER: P3A02R709040DE010 E3LSWW1H

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
2.5°	65.6	64.5	63.8	62.6	61.9	61.1	60.7	60.4	60.4	60.4
5°	63.8	61.9	60.0	58.1	57.0	55.8	54.7	54.3	53.9	53.9
7.5°	61.5	58.5	55.8	53.6	51.7	50.5	49.4	48.7	48.3	48.3
10°	58.5	54.7	51.7	48.7	46.8	45.3	44.5	43.4	43.4	43.0
12.5°	55.1	50.5	47.2	44.5	42.6	40.7	39.6	38.9	38.5	38.5
15°	51.3	46.8	43.0	40.0	38.1	36.2	35.1	34.3	34.0	34.0
17.5°	47.5	42.6	38.9	35.8	34.0	32.1	30.9	30.2	30.2	29.8
20°	43.8	38.9	35.1	32.1	30.2	28.7	27.5	26.8	26.4	26.8
22.5°	40.4	35.5	31.7	29.0	26.8	25.3	24.1	23.8	23.4	23.4
25°	36.6	32.1	28.7	26.0	24.1	22.6	21.5	21.1	20.7	20.4
26°	35.5	30.9	27.5	24.9	23.0	21.5	20.7	20.0	19.6	19.6
27.5°	34.0	29.0	26.0	23.4	21.5	20.4	19.2	18.9	18.5	18.5
30°	30.6	26.4	23.4	21.1	19.6	18.1	17.4	17.0	16.6	16.6
32.5°	27.9	23.8	21.1	19.2	17.7	16.6	15.8	15.1	15.1	15.1
35°	25.3	21.5	19.2	17.4	15.8	14.7	14.3	14.0	13.6	13.6
37.5°	23.0	19.6	17.4	15.8	14.7	13.6	12.8	12.4	12.4	12.4
40°	20.7	18.1	15.8	14.3	13.2	12.4	11.7	11.3	11.3	11.3
42.5°	18.9	16.2	14.7	13.2	12.1	11.3	10.9	10.6	10.2	10.2
45°	17.4	15.1	13.2	12.1	11.3	10.6	9.8	9.4	9.4	9.4
47.5°	15.5	14.0	12.1	10.9	10.2	9.4	9.1	8.7	8.7	8.7
50°	14.3	12.8	11.3	10.2	9.4	8.7	8.3	7.9	7.9	7.9
52.5°	12.8	11.7	10.6	9.4	8.7	7.9	7.5	7.2	7.2	7.2
55°	11.7	10.6	9.4	8.7	7.9	7.2	6.8	6.4	6.4	6.4
57.5°	10.6	9.4	8.7	7.9	7.2	6.8	6.0	6.0	5.7	5.7
60°	9.4	8.3	7.5	7.2	6.4	6.0	5.3	4.9	4.9	4.9
62.5°	7.9	7.5	6.8	6.0	5.3	4.9	4.5	4.1	4.1	4.1
65°	6.8	6.4	5.7	4.9	4.5	4.1	3.8	3.4	3.4	3.4
67.5°	5.7	4.9	4.5	4.1	3.8	3.4	3.0	2.6	2.3	2.6
70°	4.1	3.8	3.4	3.0	2.6	2.3	1.9	1.9	1.5	1.5
72.5°	2.6	2.3	2.3	1.9	1.5	1.5	1.1	1.1	0.8	0.8
75°	1.5	1.5	1.1	1.1	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

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

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-14

Test Date: 05/14/2025

Luminaire Tested: LD3A05R129040D010 E3D1H

Data in this report applies to families of products including LD3A

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-409-14
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 05/18/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: IRiS
 Catalog Number: **LD3A05R129040D010 E3D1H**
 Description: 3in Adjustable LED luminaire with, R12 optic, 4000K CCT AND, 90CRI LEDS, E3D1H TRIM

Spectral Parameters

CCT (K): 4015
 CIE u' : 0.2239
 CIE v' : 0.5033
 Duv: 0.0016
 CIE x: 0.3809
 CIE y: 0.3805
 CIE z: 0.2386
 Peak Wavelength (nm): 450
 Dominant Wavelength (nm): 578
 Purity: 28.51686
 R_f: 91.5
 R_g: 100.3

CRI (Ra): 92.3
 R1: 93.1
 R2: 93.8
 R3: 94.2
 R4: 94.2
 R5: 92.7
 R6: 91.9
 R7: 94.0
 R8: 84.8
 R9: 58.4
 R10: 85.3
 R11: 94.4
 R12: 74.9
 R13: 93.3
 R14: 96.5
 R15: 89.0



Test Conditions

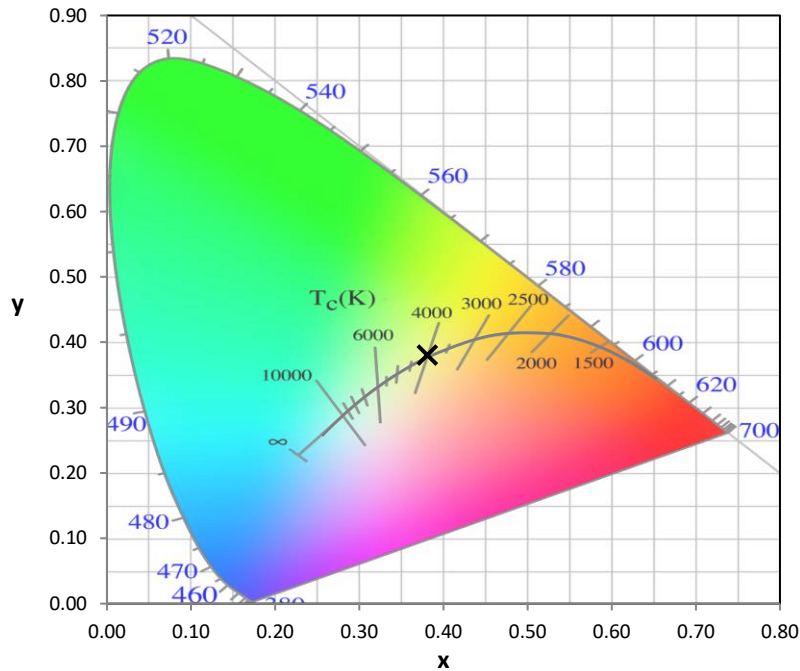
Stabilization Time: 26M
 Operation Time: 1H 26M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2504-409-14

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: SP1-2504-409-14

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2504-409-14

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

REPORT NUMBER: SP1-2504-409-14

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.77

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

REPORT NUMBER: SP1-2504-409-14

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.62

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

REPORT NUMBER: SP1-2504-409-14

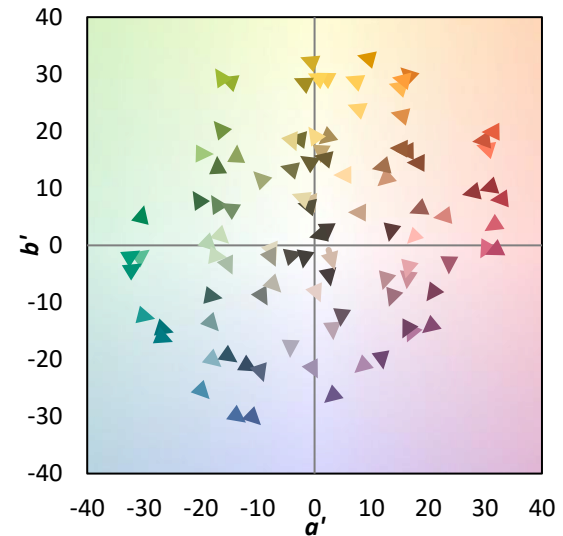
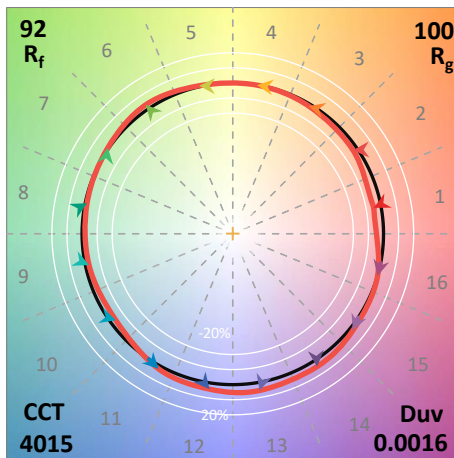
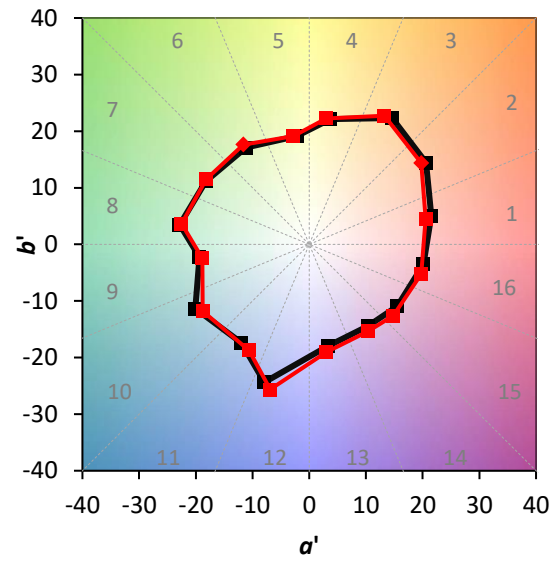
TM-30-18

Summary

$R_f = 91.5$
 $R_g = 100.3$
 CIE $R_a = 92.3$
 $R_9 = 58.4$

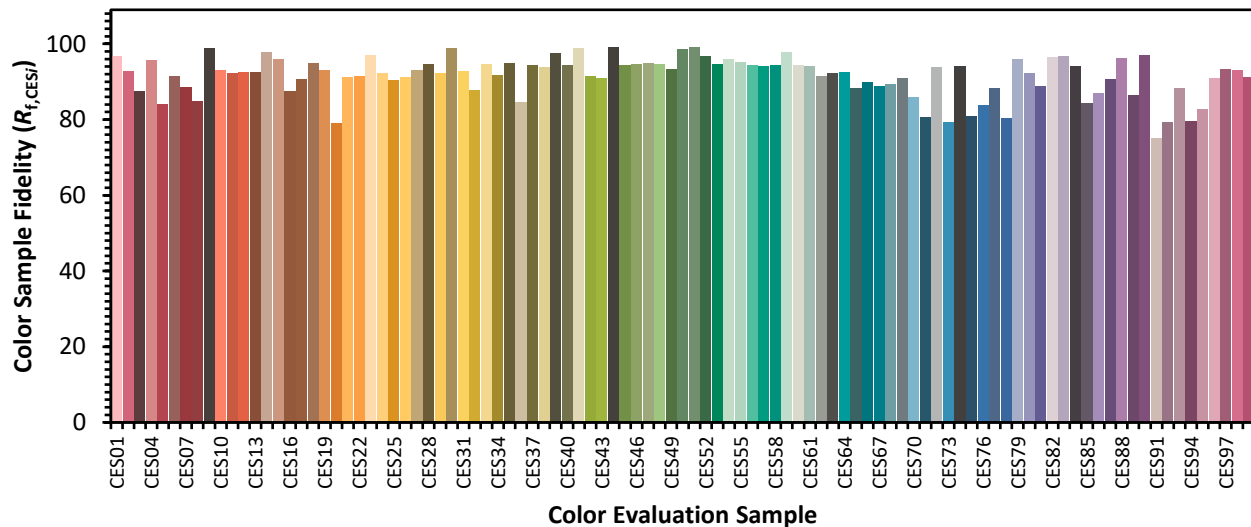


Color Vector Graphics



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

CES01 = 85	CES26 = 91	CES51 = 99	CES76 = 84
CES02 = 61	CES27 = 93	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 95	CES78 = 80
CES04 = 69	CES29 = 92	CES54 = 96	CES79 = 96
CES05 = 49	CES30 = 99	CES55 = 95	CES80 = 92
CES06 = 50	CES31 = 93	CES56 = 94	CES81 = 89
CES07 = 42	CES32 = 88	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 95	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 92	CES59 = 98	CES84 = 94
CES10 = 74	CES35 = 95	CES60 = 94	CES85 = 84
CES11 = 57	CES36 = 85	CES61 = 94	CES86 = 87
CES12 = 63	CES37 = 94	CES62 = 92	CES87 = 91
CES13 = 43	CES38 = 94	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 93	CES89 = 87
CES15 = 71	CES40 = 94	CES65 = 88	CES90 = 97
CES16 = 47	CES41 = 99	CES66 = 90	CES91 = 75
CES17 = 49	CES42 = 91	CES67 = 89	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 89	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 80
CES20 = 66	CES45 = 94	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 95	CES71 = 81	CES96 = 91
CES22 = 78	CES47 = 95	CES72 = 94	CES97 = 93
CES23 = 91	CES48 = 95	CES73 = 79	CES98 = 93
CES24 = 90	CES49 = 93	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 99	CES75 = 81	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)