

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: CORELITE

Report Number: P1215090

Luminaire Tested: 22-ID2-30-DBD-L835-U

Issue Date: 12/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P1215090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2506-458-17)
Test Lab: INNOVATION CENTER
Issue Date: 12/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22-ID2-30-DBD-L835-U
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DOUBLE BARREL DROP
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

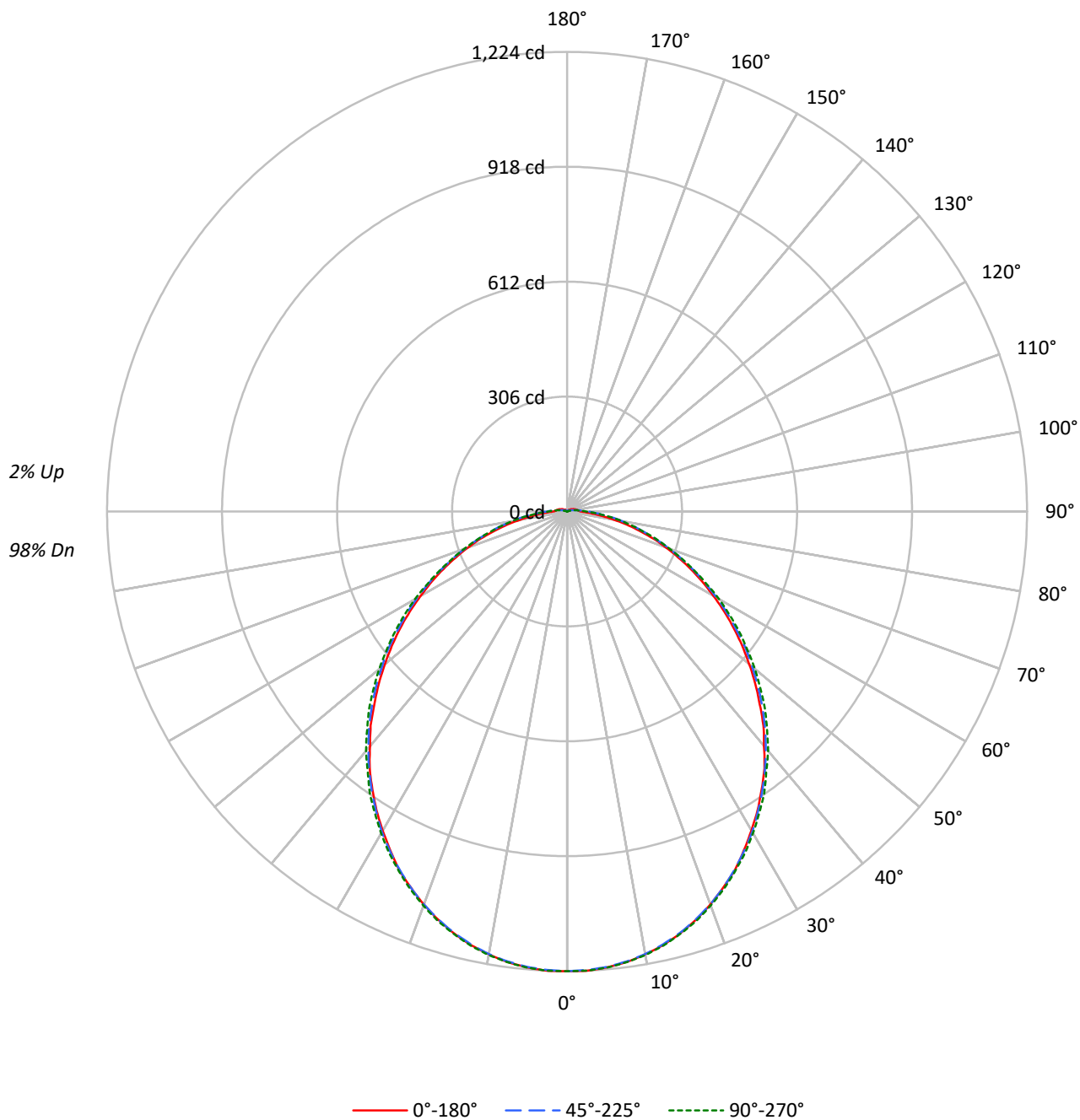
Lumens per Lamp: N/A
Luminaire Lumens: 3311.9 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.15')
CIE Type: Direct

Input Watts (W): 25.5
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: P1215090
CATALOG NUMBER: 22-ID2-30-DBD-L835-U

Luminous Intensity Polar Plot



TEST NUMBER: P1215090

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		98
1	108	103	99	95	105	101	97	93	96	93	90		92	89	87		81
2	98	90	83	77	95	88	82	76	84	79	74		80	76	72		68
3	90	79	71	64	87	77	70	64	74	68	62		71	66	61		57
4	82	70	62	55	80	69	61	54	66	59	53		63	57	52		49
5	76	63	54	47	73	62	53	47	59	52	46		57	51	46		43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		38
7	65	52	43	37	63	51	42	37	49	42	36		47	41	36		33
8	61	47	39	33	59	46	38	33	45	38	32		43	37	32		30
9	57	43	35	30	55	43	35	29	41	34	29		40	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3295	3295	3295
5°	3272	3259	3273
10°	3231	3211	3235
15°	3177	3147	3181
20°	3106	3071	3115
25°	3027	2981	3035
30°	2922	2886	2947
35°	2818	2771	2857
40°	2695	2653	2751
45°	2566	2526	2637
50°	2431	2389	2508
55°	2295	2241	2371
60°	2142	2089	2225
65°	1992	1932	2056
70°	1823	1759	1894

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.5
10°-20°	327.7	9.9
20°-30°	485.6	14.7
30°-40°	567.3	17.1
40°-50°	566.7	17.1
50°-60°	492.9	14.9
60°-70°	368.0	11.1
70°-80°	224.5	6.8
80°-90°	99.0	3.0
90°-100°	36.3	1.1
100°-110°	15.1	0.5
110°-120°	7.2	0.2
120°-130°	3.7	0.1
130°-140°	1.6	0.0
140°-150°	0.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	929.0	28.0
0°-40°	1496.3	45.2
0°-60°	2555.9	77.2
0°-90°	3247.4	98.1
90°-120°	58.5	1.8
90°-150°	64.3	1.9
90°-180°	65.0	2.0
0°-180°	3311.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1219	1218	1218	1218	1220	116
15°	1163	1162	1162	1163	1165	328
25°	1055	1053	1054	1056	1058	485
35°	903	904	906	912	915	565
45°	725	729	734	740	745	560
55°	542	544	550	558	560	484
65°	363	367	372	376	375	360
75°	199	206	214	216	213	212
85°	68	83	92	94	92	68
90°	35	47	53	54	50	21
95°	30	30	34	34	32	24
105°	22	19	12	8	7	23
115°	14	13	7	1	0	14
125°	9	7	4	0	0	8
135°	4	4	1	0	0	4
145°	2	1	0	0	0	1
155°	0	0	0	0	0	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°	1224.4	1224.4	1224.4	1224.4	1224.4
2.5°	1224.4	1223.2	1222.4	1223.2	1224.0
5°	1219.1	1217.9	1217.5	1218.3	1219.5
7.5°	1210.5	1209.7	1208.9	1210.1	1210.9
10°	1197.9	1196.7	1197.1	1198.3	1199.5
12.5°	1182.8	1181.5	1180.7	1181.9	1184.4
15°	1163.2	1161.9	1161.9	1163.2	1164.8
17.5°	1140.3	1140.3	1139.1	1141.5	1143.6
20°	1114.2	1113.7	1113.7	1115.4	1117.4
22.5°	1084.7	1084.7	1085.2	1087.6	1089.2
25°	1055.3	1053.3	1053.7	1055.7	1057.8
27.5°	1018.2	1018.6	1020.2	1022.3	1025.5
30°	981.0	982.2	985.5	987.1	989.6
32.5°	943.4	944.3	945.9	950.4	952.0
35°	903.0	903.8	906.3	911.6	915.3
37.5°	862.6	861.8	865.4	870.7	871.1
40°	815.6	818.9	822.5	827.4	832.3
42.5°	773.5	775.2	779.7	784.2	787.4
45°	724.9	729.0	734.3	739.6	744.9
47.5°	679.6	684.5	688.6	695.1	698.0
50°	632.6	637.9	642.8	649.4	652.6
52.5°	587.3	591.0	599.1	604.0	604.9
55°	541.6	544.4	550.1	557.5	559.5
57.5°	495.8	499.5	505.6	512.2	513.0
60°	449.7	454.2	459.5	464.8	467.2
62.5°	406.0	410.0	415.4	419.8	419.4
65°	363.1	366.8	372.5	376.1	374.9
67.5°	320.6	324.7	330.0	332.9	332.0
70°	279.4	282.6	288.7	291.6	290.4
72.5°	241.0	245.5	250.4	253.6	252.0
75°	198.9	206.2	214.0	216.1	213.2
77.5°	162.5	170.7	180.1	182.6	179.7
80°	126.2	138.9	148.3	151.1	147.8
82.5°	95.2	109.0	119.7	122.1	118.0
85°	68.2	83.3	92.3	94.3	91.5
87.5°	48.2	62.1	69.8	71.1	67.0
90°	35.1	47.0	53.1	53.9	49.8
92.5°	32				

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.3	13.9	8.6	2.0	0.0
115°	14.3	12.7	7.4	1.2	0.0
117.5°	12.7	11.0	6.5	0.8	0.0
120°	11.4	9.8	5.7	0.4	0.0
122.5°	10.2	8.6	4.9	0.4	0.0
125°	8.6	7.4	4.1	0.4	0.0
127.5°	7.8	6.5	3.3	0.0	0.0
130°	6.5	5.3	2.9	0.0	0.0
132.5°	5.7	4.5	2.0	0.4	0.0
135°	4.5	3.7	1.2	0.4	0.0
137.5°	4.1	3.3	0.8	0.4	0.0
140°	3.3	2.5	0.8	0.4	0.0
142.5°	2.5	2.0	0.4	0.4	0.4
145°	1.6	1.2	0.4	0.4	0.4
147.5°	1.2	0.8	0.4	0.4	0.4
150°	0.8	0.8	0.4	0.4	0.4
152.5°	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4
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	14.49	16.07	14.88	16.42	16.79	14.67	16.25	15.07	16.61	16.97
	3H	16.16	17.59	16.57	17.96	18.37	16.36	17.79	16.77	18.16	18.57
	4H	16.79	18.14	17.22	18.53	18.95	17.02	18.37	17.45	18.76	19.18
	6H	17.25	18.51	17.70	18.91	19.35	17.57	18.82	18.01	19.22	19.66
	8H	17.41	18.61	17.87	19.04	19.48	17.78	18.98	18.24	19.40	19.85
	12H	17.53	18.68	17.99	19.10	19.57	17.96	19.11	18.42	19.53	20.01
4H	2H	15.07	16.42	15.50	16.81	17.24	15.22	16.57	15.65	16.96	17.38
	3H	16.97	18.10	17.41	18.54	18.98	17.13	18.27	17.58	18.71	19.15
	4H	17.72	18.75	18.19	19.20	19.69	17.93	18.96	18.40	19.41	19.90
	6H	18.33	19.23	18.81	19.71	20.21	18.63	19.53	19.11	20.01	20.51
	8H	18.54	19.39	19.03	19.87	20.38	18.91	19.75	19.40	20.23	20.74
	12H	18.71	19.48	19.22	19.99	20.50	19.15	19.92	19.67	20.43	20.94
8H	4H	18.04	18.89	18.53	19.37	19.88	18.23	19.07	18.72	19.55	20.06
	6H	18.78	19.49	19.31	20.02	20.53	19.06	19.77	19.59	20.30	20.81
	8H	19.08	19.72	19.62	20.26	20.79	19.44	20.08	19.98	20.62	21.15
	12H	19.35	19.92	19.89	20.44	21.05	19.80	20.37	20.34	20.89	21.49
12H	4H	18.08	18.85	18.59	19.36	19.87	18.26	19.02	18.77	19.53	20.05
	6H	18.86	19.50								

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-1

Test Date: 07/23/2025

Luminaire Tested: 22ID2-55-CFR1-L835-U

Data in this report applies to families of products including 22ID2-55-CFR1-L835-U

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/27/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Corelite
 Catalog Number: **22ID2-55-CFR1-L835-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3500K 80CRI

Spectral Parameters

CCT (K): 3440
 CIE u' : 0.2370
 CIE v' : 0.5132
 Duv: 0.0005
 CIE x: 0.4093
 CIE y: 0.3940
 CIE z: 0.1967
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 580
 Purity: 41.09375
 R_f: 84.9
 R_g: 94.6

CRI (Ra): 84.2
 R1: 82.8
 R2: 91.7
 R3: 96.7
 R4: 81.9
 R5: 82.6
 R6: 88.8
 R7: 85.0
 R8: 63.7
 R9: 13.6
 R10: 80.1
 R11: 81.1
 R12: 65.8
 R13: 85.2
 R14: 98.7
 R15: 76.2



Test Conditions

Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2506-458-1

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: SP1-2506-458-1

CIE 1931 Chromaticity Diagram



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



REPORT NUMBER: SP1-2506-458-1

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR			

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Scotopic Flux vs. Wavelength



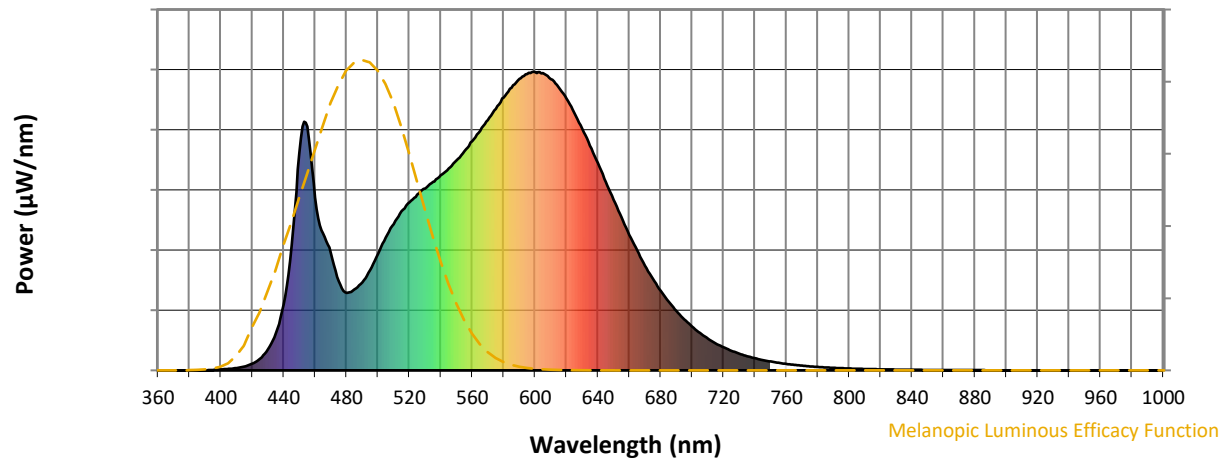
Scotopic Lumens: NR

S/P: 1.53

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR	970	0	NR
455	816	NR	585	946	NR	715	90	NR	845	2	NR	975	0	NR
460	578	NR	590	976	NR	72								

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.07

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	295	NR	620	910	NR	750	30	NR	880	1	NR
365	0	NR	495	335	NR	625	862	NR	755	25	NR	885	1	NR
370	0	NR	500	390	NR	630	809	NR	760	21	NR	890	1	NR
375	0	NR	505	445	NR	635	752	NR	765	18	NR	895	0	NR
380	0	NR	510	490	NR	640	694	NR	770	16	NR	900	0	NR
385	0	NR	515	532	NR	645	630	NR	775	13	NR	905	0	NR
390	0	NR	520	563	NR	650	571	NR	780	12	NR	910	0	NR
395	2	NR	525	588	NR	655	512	NR	785	10	NR	915	0	NR
400	3	NR	530	609	NR	660	453	NR	790	8	NR	920	0	NR
405	5	NR	535	631	NR	665	401	NR	795	7	NR	925	0	NR
410	8	NR	540	654	NR	670	351	NR	800	6	NR	930	0	NR
415	13	NR	545	677	NR	675	306	NR	805	5	NR	935	0	NR
420	23	NR	550	702	NR	680	267	NR	810	5	NR	940	0	NR
425	40	NR	555	734	NR	685	230	NR	815	4	NR	945	0	NR
430	70	NR	560	767	NR	690	199	NR	820	4	NR	950	0	NR
435	126	NR	565	802	NR	695	171	NR	825	3	NR	955	0	NR
440	221	NR	570	838	NR	700	146	NR	830	3	NR	960	0	NR
445	418	NR	575	875	NR	705	125	NR	835	2	NR	965	0	NR
450	729	NR	580	913	NR	710	107	NR	840	2	NR</			

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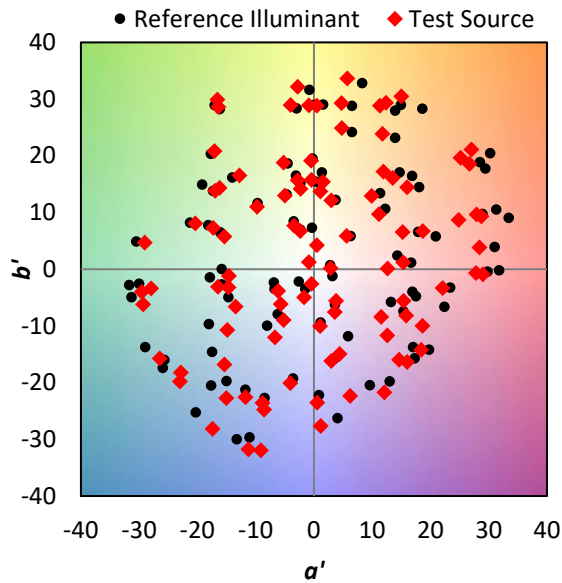
TM-30-18

Summary

$R_f = 84.9$
 $R_g = 94.6$
 $CIE R_a = 84.2$
 $R_9 = 13.6$



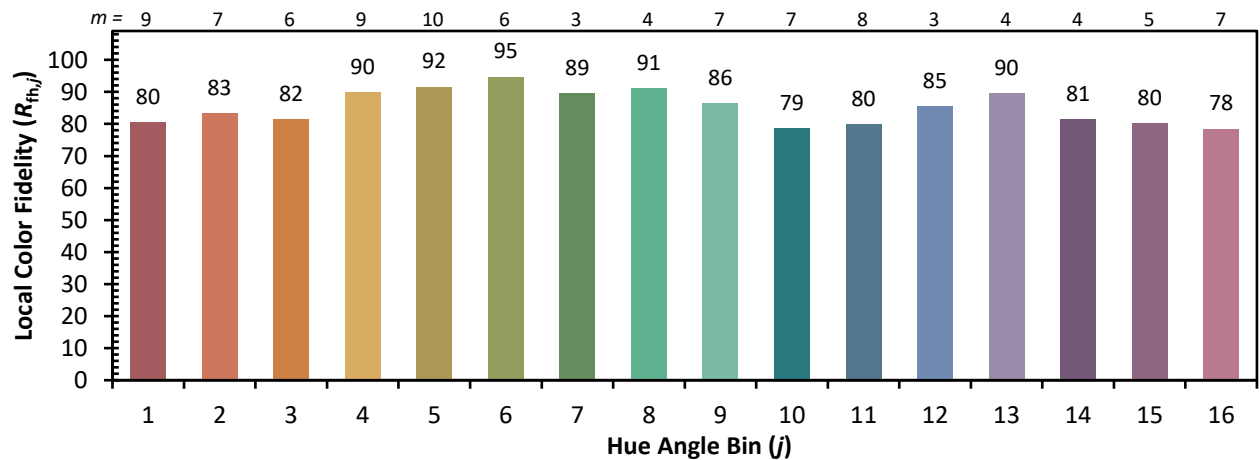
Color Vector Graphics



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

CES01 = 86	CES26 = 87	CES51 = 92	CES76 = 81
CES02 = 62	CES27 = 91	CES52 = 93	CES77 = 85
CES03 = 31	CES28 = 94	CES53 = 90	CES78 = 80
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 92
CES05 = 49	CES30 = 89	CES55 = 86	CES80 = 90
CES06 = 51	CES31 = 94	CES56 = 85	CES81 = 77
CES07 = 41	CES32 = 86	CES57 = 83	CES82 = 96
CES08 = 40	CES33 = 97	CES58 = 84	CES83 = 96
CES09 = 29	CES34 = 91	CES59 = 91	CES84 = 91
CES10 = 75	CES35 = 95	CES60 = 89	CES85 = 76
CES11 = 58	CES36 = 79	CES61 = 87	CES86 = 73
CES12 = 64	CES37 = 95	CES62 = 81	CES87 = 85
CES13 = 43	CES38 = 84	CES63 = 85	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 78
CES15 = 71	CES40 = 97	CES65 = 78	CES90 = 90
CES16 = 47	CES41 = 95	CES66 = 75	CES91 = 71
CES17 = 50	CES42 = 96	CES67 = 74	CES92 = 65
CES18 = 56	CES43 = 92	CES68 = 79	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 66	CES45 = 95	CES70 = 77	CES95 = 74
CES21 = 86	CES46 = 91	CES71 = 71	CES96 = 85
CES22 = 78	CES47 = 94	CES72 = 90	CES97 = 90
CES23 = 92	CES48 = 83	CES73 = 72	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 90	CES99 = 79
CES25 = 72	CES50 = 93	CES75 = 75	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)