

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P991002

Luminaire Tested: **UFLD-CA2-120-722-U-66**

Issue Date: 04/10/2025

Test Information

Test Method: LM-79-08
Report Number: P991002
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-CA2-120-722-U-66
Description: UTILITY FLOOD MEDIUM SIZE 120W 70CRI 2200K LED FIXTURE NEMA 6
Light Source: (2) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17684.1 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.31' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

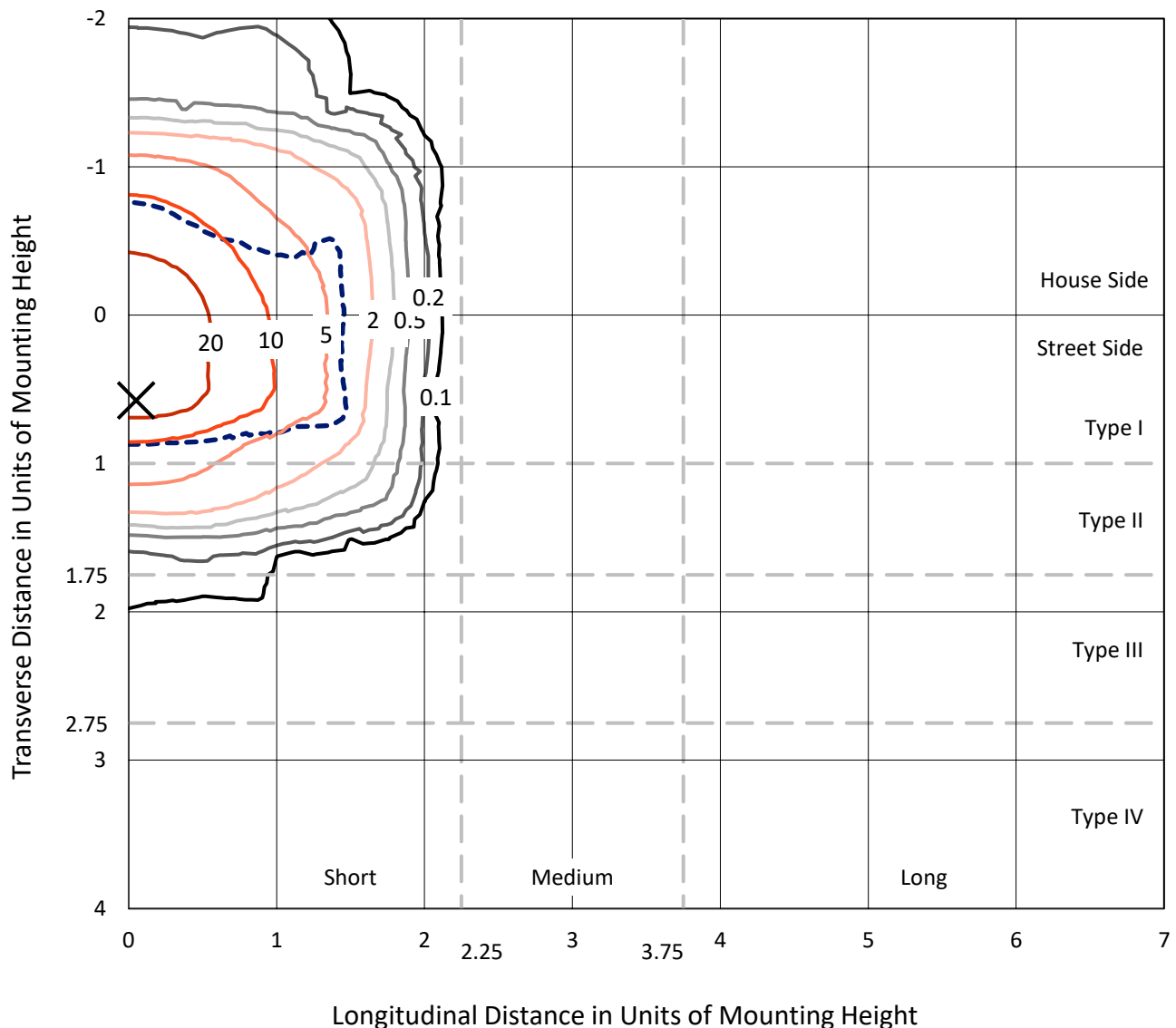
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.0%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

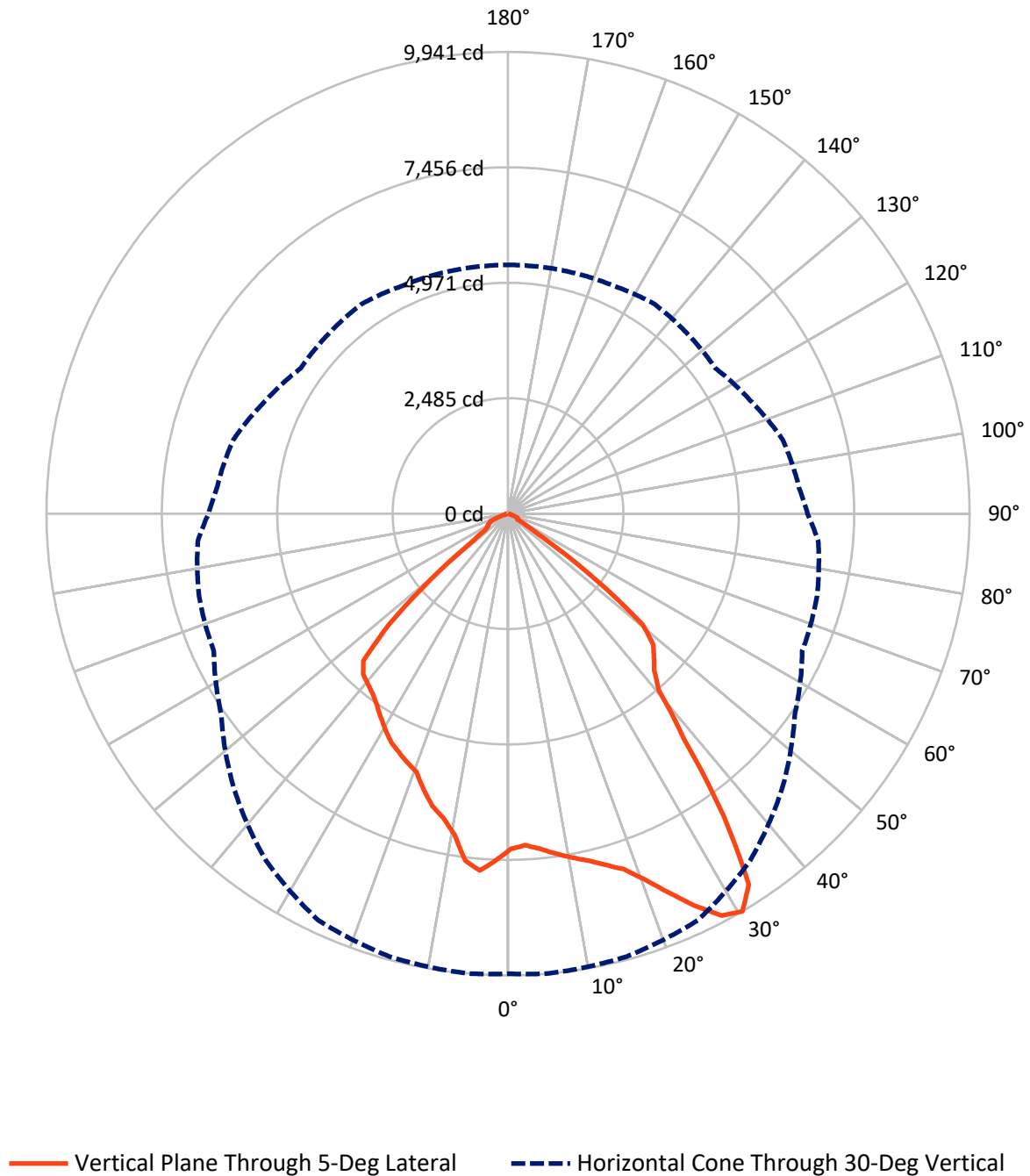


Based on 15 foot mounting height. Maximum calculated value = 32.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: UFLD-CA2-120-722-U-66

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7821.5	0.0	7821.5
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	9862.6	0.0	9862.6
	% Fixture	55.8	0.0	55.8
Total	Lumens	17684.1	0.0	17684.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.1	4.0
10°-20°	2045.4	11.6
20°-30°	3259.6	18.4
30°-40°	4075.0	23.0
40°-50°	3999.0	22.6
50°-60°	2859.0	16.2
60°-70°	632.6	3.6
70°-80°	97.2	0.5
80°-90°	10.3	0.1
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°-90°	17684.1	100.0
0°-180°	17684.1	100.0

Coefficient of Utilization



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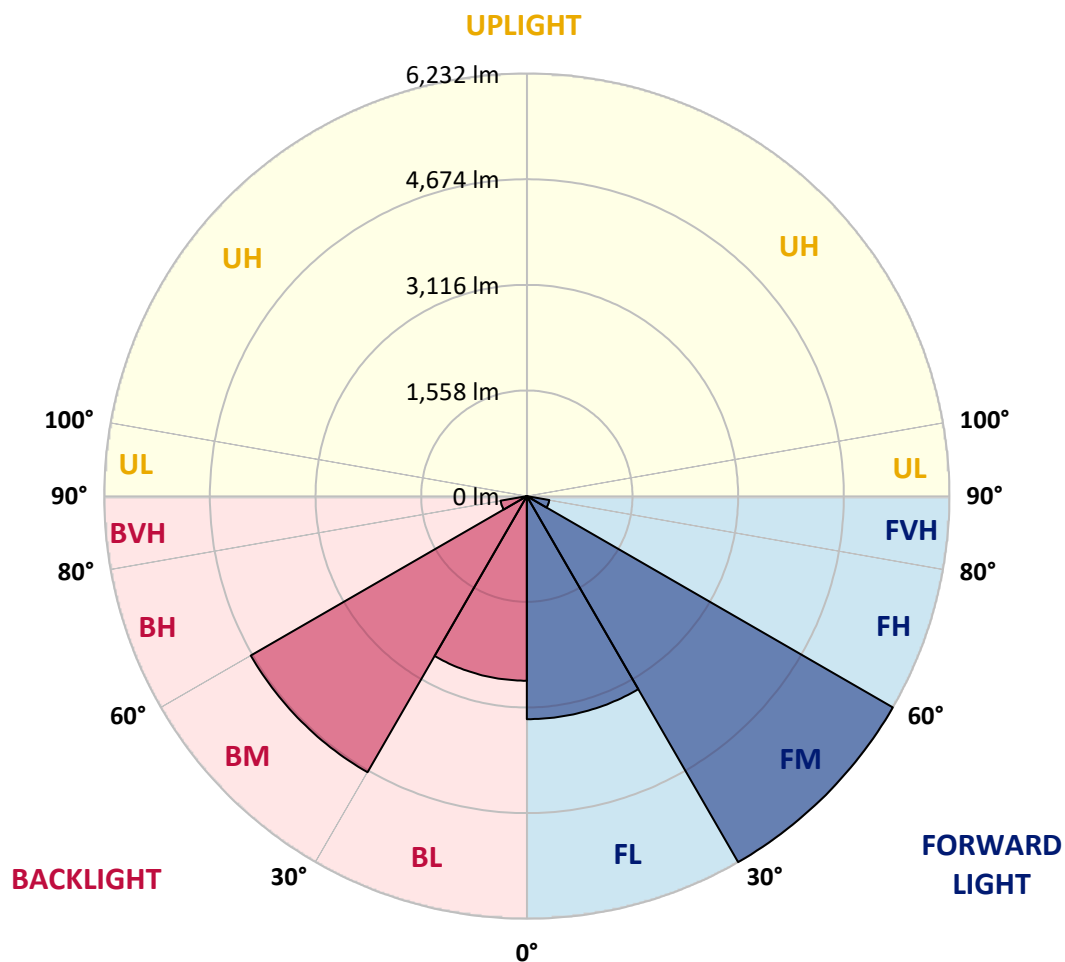
CATALOG NUMBER: UFLD-CA2-120-722-U-66

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.1	18.6			
FM	(30°-60°)	6231.9	35.2			
FH	(60°-80°)	336.5	1.9			G0/660
FVH	(80°-90°)	5.2	0.0			G0/10
BL	(0°-30°)	2722.0	15.4	B4/5000		
BM	(30°-60°)	4701.1	26.6	B3/5000		
BH	(60°-80°)	393.3	2.2	B1/500		G1/500
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1
2.5°	7137.3	7148.8	7160.4	7177.7	7200.7	7212.3	7200.7	7189.2	7183.4	7195.0	7200.7
5°	7235.4	7252.7	7258.4	7270.0	7281.5	7270.0	7264.2	7252.7	7246.9	7252.7	7270.0
7.5°	7379.6	7391.1	7385.4	7379.6	7373.8	7333.5	7293.1	7275.8	7275.8	7293.1	7339.2
10°	7506.5	7529.6	7500.8	7477.7	7437.3	7373.8	7304.6	7264.2	7275.8	7310.4	7368.1
12.5°	7668.1	7668.1	7639.3	7616.2	7523.9	7448.8	7356.5	7293.1	7293.1	7356.5	7420.0
15°	7864.3	7847.0	7835.4	7772.0	7662.3	7541.2	7425.8	7333.5	7316.1	7414.2	7454.6
17.5°	8112.4	8048.9	8020.1	7910.4	7760.4	7604.6	7448.8	7373.8	7321.9	7425.8	7379.6
20°	8452.8	8406.6	8314.3	8141.2	7835.4	7633.5	7448.8	7350.8	7310.4	7368.1	7321.9
22.5°	8891.3	8862.5	8654.7	8435.5	8031.6	7656.6	7420.0	7287.3	7275.8	7246.9	7148.8
25°	9427.9	9352.9	9139.4	8827.8	8325.9	7881.6	7414.2	7171.9	7131.5	7056.5	6883.4
27.5°	9883.7	9802.9	9543.3	9266.3	8729.7	8216.2	7460.4	7033.4	6987.3	6935.3	6721.8
30°	9906.8	9941.4	9872.2	9664.5	9104.8	8354.7	7541.2	6993.0	6889.2	6704.5	6450.7
32.5°	9439.4	9520.2	9687.5	9762.5	9387.5	8522.0	7610.4	7010.3	6819.9	6375.7	6167.9
35°	7841.2	8002.8	8689.4	9335.6	9468.3	8764.4	7668.1	7010.3	6796.9	6139.1	5977.5
37.5°	6023.7	6156.4	6739.2	7910.4	9110.6	8914.4	7795.0	6970.0	6768.0	6156.4	5937.2
40°	4921.7	4996.7	5250.5	6046.8	7852.7	8666.3	7922.0	7016.1	6681.5	6167.9	5960.2
42.5°	4621.6	4615.9	4563.9	4858.2	5989.1	7939.3	8008.5	7131.5	6537.2	6092.9	5919.8
45°	4419.7	4408.1	4362.0	4419.7	4737.0	6496.8	7945.1	7339.2	6358.3	5827.5	5712.1
47.5°	4200.4	4206.2	4188.9	4212.0	4154.3	4933.2	7587.3	7425.8	6052.5	5383.2	5342.9
50°	3675.4	3761.9	3992.7	4015.8	3865.8	3981.2	6496.8	7385.4	5833.3	5256.3	5221.7
52.5°	2284.9	2423.3	3104.2	3681.1	3594.6	3594.6	4956.3	7443.1	5440.9	5210.2	5233.2
55°	807.8	911.6	1661.7	2533.0	3219.6	3283.0	3917.7	6623.8	5394.8	5290.9	5314.0
57.5°	201.9	248.1	507.7	1096.3	2169.5	2977.2	3502.3	5469.8	4096.6	3952.3	4010.0
60°	236.6	230.8	317.3	352.0	842.4	2354.1	3156.1	3692.7	2642.6	2475.3	2504.1
62.5°	253.9	236.6	248.1	311.6	138.5	1154.0	2515.6	2198.3	1090.5	807.8	853.9
65°	225.0	213.5	196.2	288.5	98.1	213.5	1482.8	646.2	155.8	248.1	225.0
67.5°	150.0	155.8	161.6	230.8	92.3	92.3	196.2	161.6	109.6	225.0	196.2
70°	86.5	92.3	109.6	138.5	92.3	75.0	86.5	132.7	92.3	225.0	196.2
72.5°	51.9	51.9	51.9	57.7	92.3	63.5	57.7	109.6	80.8	207.7	196.2
75°	40.4	40.4	40.4	34.6	80.8	40.4	40.4	86.5	69.2	150.0	150.0
77.5°	34.6	34.6	34.6	28.8	46.2	34.6	34.6	63.5	63.5	75.0	86.5
80°	23.1	23.1	23.1	23.1	28.8	28.8	23.1	34.6	28.8	34.6	40.4
82.5°	11.5	17.3	17.3	11.5	17.3	17.3	17.3	23.1	17.3	23.1	23.1
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	11.5	5.8	5.8	11.5
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



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CATALOG NUMBER: UFLD-CA2-120-722-U-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1	7218.1
2.5°	7212.3	7241.1	7281.5	7345.0	7368.1	7408.5	7443.1	7471.9	7471.9	7460.4
5°	7304.6	7385.4	7495.0	7593.1	7627.7	7668.1	7685.4	7714.3	7708.5	7702.7
7.5°	7385.4	7512.3	7627.7	7696.9	7685.4	7633.5	7598.9	7552.7	7535.4	7546.9
10°	7448.8	7564.2	7616.2	7570.0	7431.5	7310.4	7154.6	7050.7	6998.8	7016.1
12.5°	7471.9	7512.3	7466.2	7212.3	7039.2	6923.8	6796.9	6727.6	6698.8	6704.5
15°	7477.7	7385.4	7131.5	6941.1	6814.2	6669.9	6566.1	6502.6	6502.6	6508.4
17.5°	7356.5	7131.5	6912.3	6768.0	6589.1	6439.1	6381.4	6358.3	6214.1	6237.2
20°	7246.9	6923.8	6802.6	6577.6	6364.1	6266.0	5931.4	5896.8	5902.5	5908.3
22.5°	7016.1	6773.8	6664.2	6369.9	6127.6	5856.4	5810.2	5775.6	5781.4	5781.4
25°	6698.8	6560.3	6410.3	6104.5	5810.2	5758.3	5723.7	5677.5	5654.4	5660.2
27.5°	6519.9	6346.8	6069.9	5810.2	5619.8	5642.9	5602.5	5533.3	5533.3	5539.0
30°	6294.9	6127.6	5758.3	5452.5	5469.8	5504.4	5406.3	5371.7	5354.4	5354.4
32.5°	6017.9	5787.1	5464.0	5175.5	5279.4	5267.9	5146.7	5158.2	5169.8	5158.2
35°	5810.2	5510.2	5239.0	5083.2	5042.8	4996.7	4933.2	4973.6	4990.9	4979.4
37.5°	5758.3	5400.6	5117.8	5008.2	4852.4	4765.9	4783.2	4823.6	4846.7	4840.9
40°	5741.0	5290.9	5014.0	4898.6	4690.9	4615.9	4638.9	4719.7	4748.6	4742.8
42.5°	5717.9	5215.9	4950.5	4812.0	4523.5	4471.6	4581.2	4656.3	4662.0	4656.3
45°	5596.7	5135.1	4910.1	4633.2	4269.7	4333.1	4471.6	4512.0	4442.8	4413.9
47.5°	5314.0	4985.1	4789.0	4413.9	4062.0	4183.1	4200.4	3761.9	3508.1	3450.4
50°	5233.2	4990.9	4650.5	4154.3	3935.0	4056.2	3300.3	2521.4	2204.1	2140.6
52.5°	5210.2	4933.2	4702.4	3883.1	3888.9	3421.5	2082.9	1234.7	992.4	946.3
55°	5267.9	5187.1	4789.0	3721.5	3617.7	2227.2	969.3	582.8	600.1	582.8
57.5°	3975.4	4338.9	4892.8	3467.7	2642.6	1073.2	611.6	565.4	525.1	513.5
60°	2481.0	2827.2	3583.1	2983.0	1355.9	640.5	623.1	525.1	507.7	502.0
62.5°	819.3	1257.8	2054.1	1961.7	375.0	634.7	628.9	467.4	467.4	467.4
65°	207.7	213.5	565.4	675.1	277.0	565.4	600.1	438.5	427.0	444.3
67.5°	178.9	161.6	300.0	265.4	230.8	392.3	525.1	421.2	398.1	398.1
70°	178.9	190.4	294.3	248.1	144.2	213.5	380.8	259.6	230.8	213.5
72.5°	167.3	184.6	259.6	225.0	98.1	103.9	167.3	86.5	80.8	69.2
75°	144.2	150.0	201.9	201.9	103.9	51.9	69.2	57.7	57.7	51.9
77.5°	98.1	75.0	115.4	144.2	75.0	34.6	28.8	28.8	28.8	23.1
80°	51.9	28.8	28.8	23.1	28.8	28.8	17.3	23.1	23.1	17.3
82.5°	28.8	17.3	17.3	11.5	11.5	17.3	11.5	11.5	11.5	11.5
85°	11.5	11.5	5.8	5.8	5.8	11.5	5.8	5.8	5.8	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8
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

Lumark

Report Number: SP1-2501-319-8

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7022-66

Data in this report applies to families of products including NFFLD-C55-7022-66

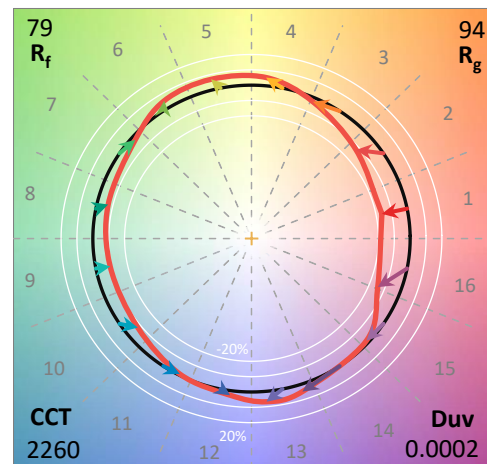
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-319-8
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/06/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **NFFLD-C55-7022-66**
 Description: LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K): 2260
 CIE u' : 0.2861
 CIE v' : 0.5354
 Duv: 0.0002
 CIE x: 0.5000
 CIE y: 0.4158
 CIE z: 0.0842
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 586
 Purity: 74.90898
 R_f: 78.7
 R_g: 93.7

CRI (Ra): 72.8
 R1: 70.2
 R2: 88.0
 R3: 89.4
 R4: 67.3
 R5: 70.5
 R6: 87.8
 R7: 71.9
 R8: 36.8
 R9: -28.5
 R10: 76.1
 R11: 65.3
 R12: 73.8
 R13: 73.9
 R14: 94.5
 R15: 60.0



Test Conditions

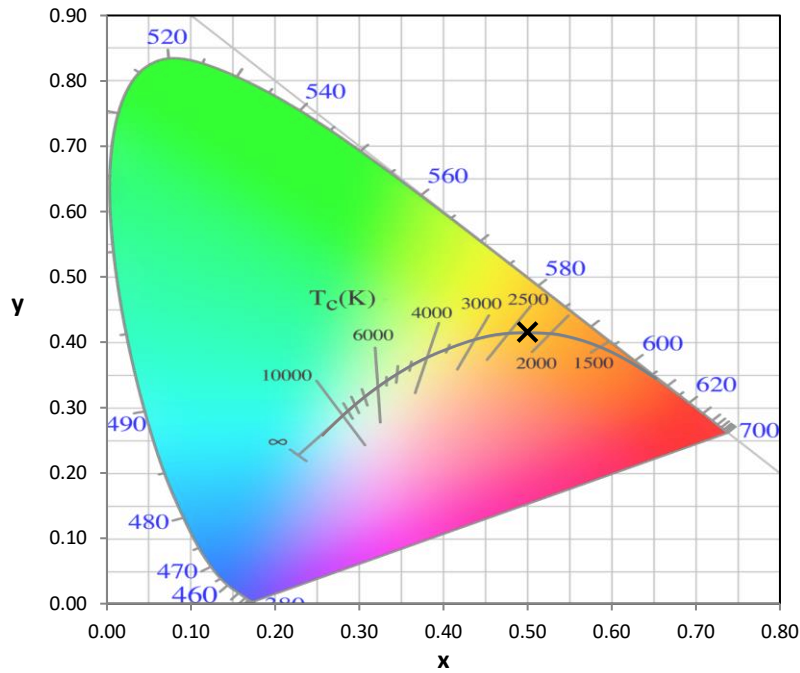
Stabilization Time: 59M
 Operation Time: 1H 59M
 Sphere Temperature (°C): 25.0

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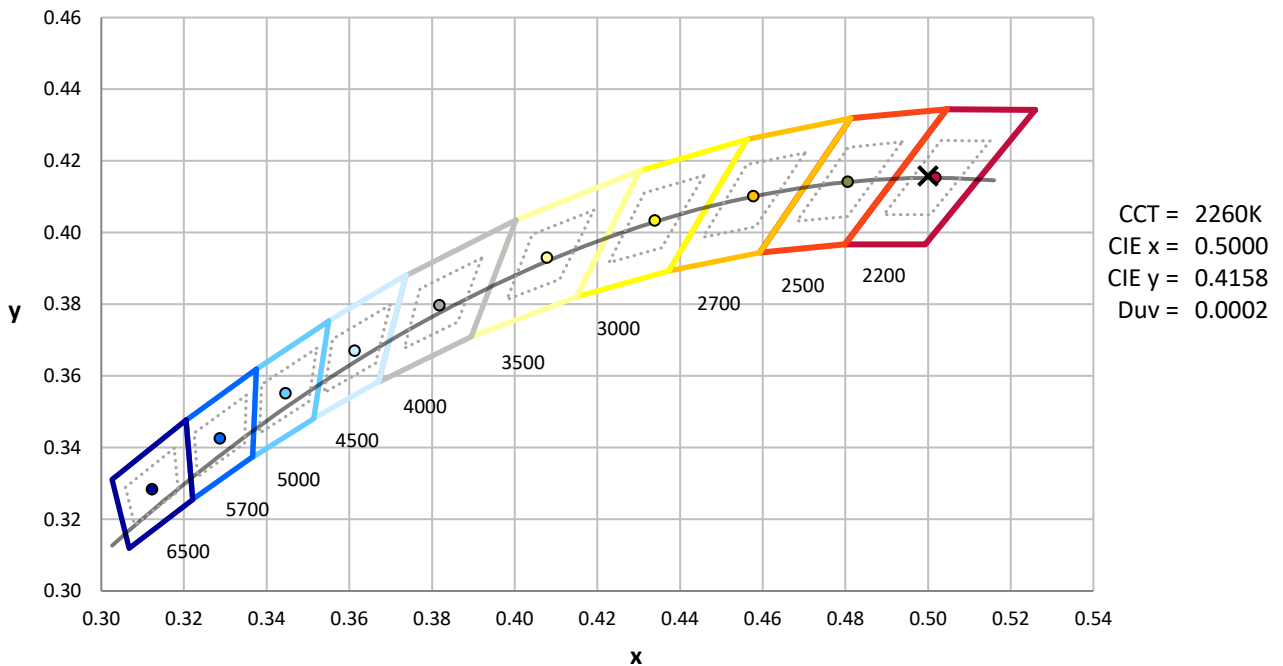
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



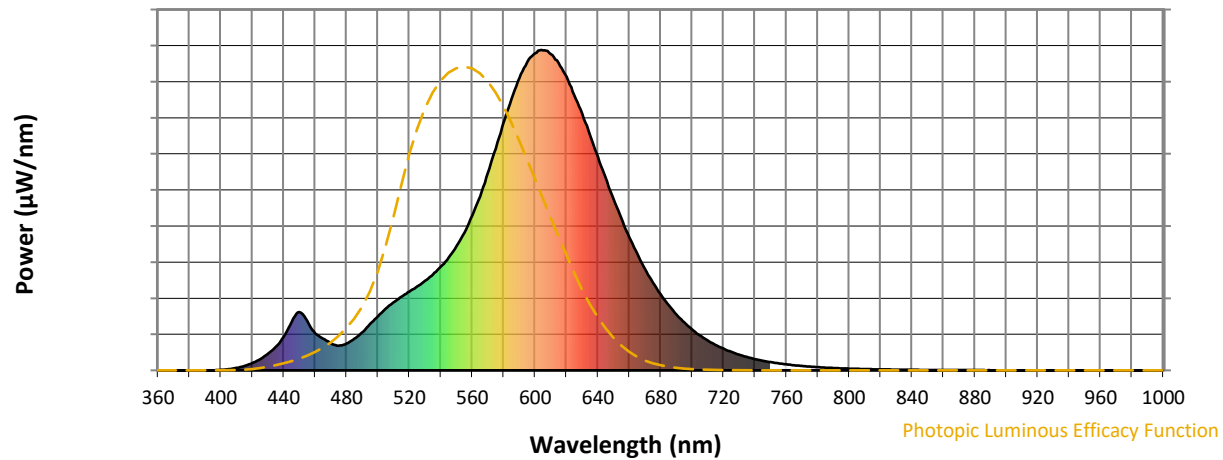
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

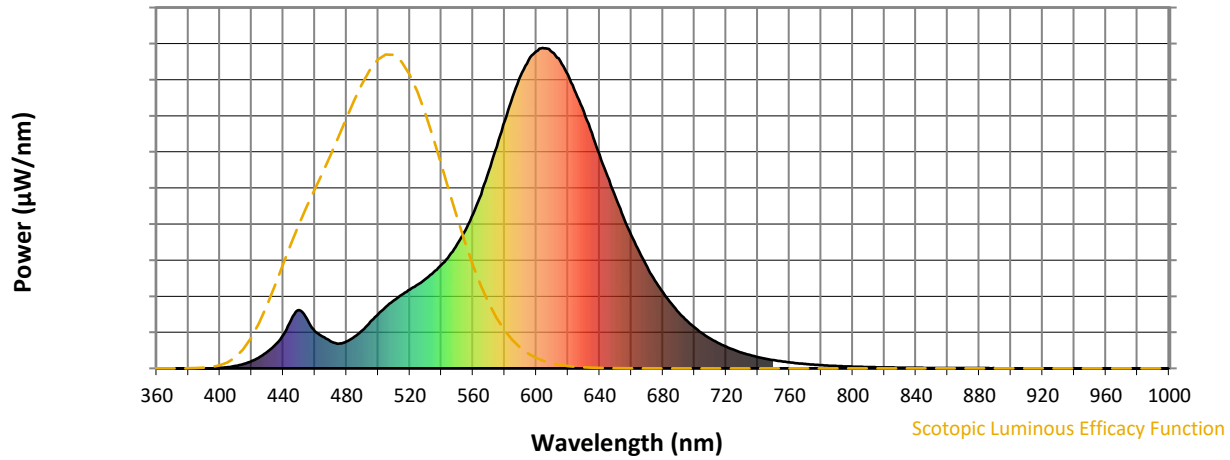


Photopic Lumens: NR

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	118	NR	620	917	NR	750	26	NR	880	1	NR
365	0	NR	495	145	NR	625	859	NR	755	22	NR	885	1	NR
370	0	NR	500	169	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	193	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	213	NR	640	667	NR	770	14	NR	900	0	NR
385	0	NR	515	230	NR	645	600	NR	775	12	NR	905	0	NR
390	0	NR	520	246	NR	650	534	NR	780	10	NR	910	0	NR
395	0	NR	525	262	NR	655	473	NR	785	8	NR	915	0	NR
400	2	NR	530	280	NR	660	416	NR	790	7	NR	920	0	NR
405	4	NR	535	299	NR	665	364	NR	795	6	NR	925	0	NR
410	8	NR	540	324	NR	670	316	NR	800	5	NR	930	0	NR
415	14	NR	545	352	NR	675	274	NR	805	5	NR	935	0	NR
420	23	NR	550	388	NR	680	237	NR	810	4	NR	940	0	NR
425	35	NR	555	429	NR	685	204	NR	815	4	NR	945	0	NR
430	52	NR	560	482	NR	690	174	NR	820	3	NR	950	0	NR
435	74	NR	565	543	NR	695	150	NR	825	3	NR	955	0	NR
440	105	NR	570	616	NR	700	128	NR	830	2	NR	960	0	NR
445	151	NR	575	692	NR	705	109	NR	835	2	NR	965	0	NR
450	182	NR	580	773	NR	710	93	NR	840	2	NR	970	0	NR
455	154	NR	585	847	NR	715	79	NR	845	2	NR	975	0	NR
460	116	NR	590	913	NR	720	68	NR	850	1	NR	980	0	NR
465	99	NR	595	962	NR	725	58	NR	855	1	NR	985	0	NR
470	84	NR	600	990	NR	730	49	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	84	NR	610	986	NR	740	35	NR	870	1	NR	1000	0	NR
485	99	NR	615	960	NR	745	30	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



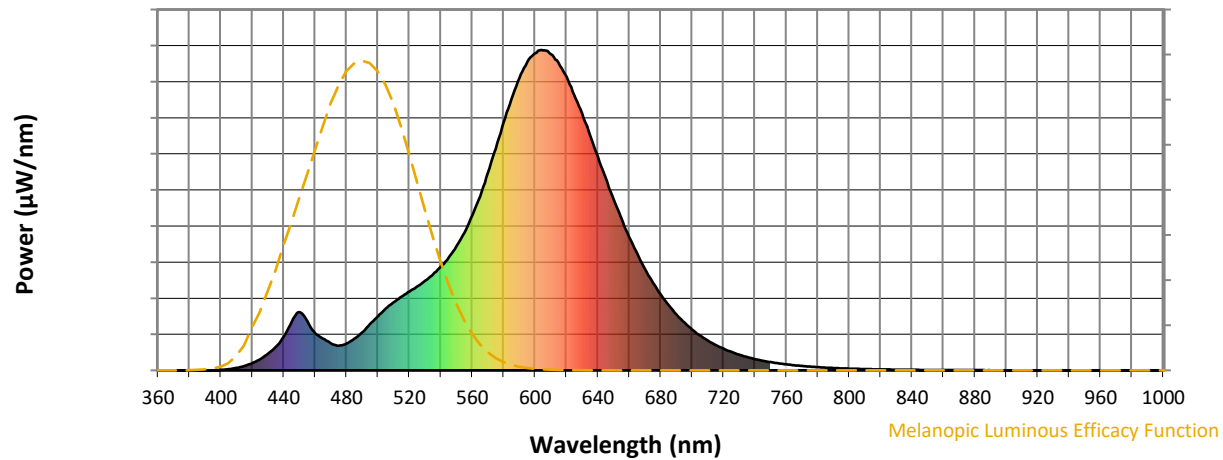
Scotopic Lumens: NR

S/P: 0.95

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	118	NR	620	917	NR	750	26	NR	880	1	NR
365	0	NR	495	145	NR	625	859	NR	755	22	NR	885	1	NR
370	0	NR	500	169	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	193	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	213	NR	640	667	NR	770	14	NR	900	0	NR
385	0	NR	515	230	NR	645	600	NR	775	12	NR	905	0	NR
390	0	NR	520	246	NR	650	534	NR	780	10	NR	910	0	NR
395	0	NR	525	262	NR	655	473	NR	785	8	NR	915	0	NR
400	2	NR	530	280	NR	660	416	NR	790	7	NR	920	0	NR
405	4	NR	535	299	NR	665	364	NR	795	6	NR	925	0	NR
410	8	NR	540	324	NR	670	316	NR	800	5	NR	930	0	NR
415	14	NR	545	352	NR	675	274	NR	805	5	NR	935	0	NR
420	23	NR	550	388	NR	680	237	NR	810	4	NR	940	0	NR
425	35	NR	555	429	NR	685	204	NR	815	4	NR	945	0	NR
430	52	NR	560	482	NR	690	174	NR	820	3	NR	950	0	NR
435	74	NR	565	543	NR	695	150	NR	825	3	NR	955	0	NR
440	105	NR	570	616	NR	700	128	NR	830	2	NR	960	0	NR
445	151	NR	575	692	NR	705	109	NR	835	2	NR	965	0	NR
450	182	NR	580	773	NR	710	93	NR	840	2	NR	970	0	NR
455	154	NR	585	847	NR	715	79	NR	845	2	NR	975	0	NR
460	116	NR	590	913	NR	720	68	NR	850	1	NR	980	0	NR
465	99	NR	595	962	NR	725	58	NR	855	1	NR	985	0	NR
470	84	NR	600	990	NR	730	49	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	84	NR	610	986	NR	740	35	NR	870	1	NR	1000	0	NR
485	99	NR	615	960	NR	745	30	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.64

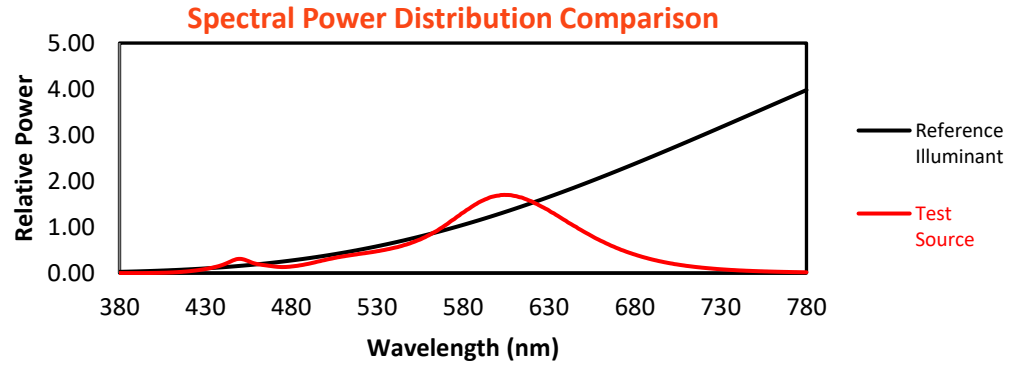
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	917	NR	750	26	NR	880	1	NR
365	0	NR	495	145	NR	625	859	NR	755	22	NR	885	1	NR
370	0	NR	500	169	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	193	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	213	NR	640	667	NR	770	14	NR	900	0	NR
385	0	NR	515	230	NR	645	600	NR	775	12	NR	905	0	NR
390	0	NR	520	246	NR	650	534	NR	780	10	NR	910	0	NR
395	0	NR	525	262	NR	655	473	NR	785	8	NR	915	0	NR
400	2	NR	530	280	NR	660	416	NR	790	7	NR	920	0	NR
405	4	NR	535	299	NR	665	364	NR	795	6	NR	925	0	NR
410	8	NR	540	324	NR	670	316	NR	800	5	NR	930	0	NR
415	14	NR	545	352	NR	675	274	NR	805	5	NR	935	0	NR
420	23	NR	550	388	NR	680	237	NR	810	4	NR	940	0	NR
425	35	NR	555	429	NR	685	204	NR	815	4	NR	945	0	NR
430	52	NR	560	482	NR	690	174	NR	820	3	NR	950	0	NR
435	74	NR	565	543	NR	695	150	NR	825	3	NR	955	0	NR
440	105	NR	570	616	NR	700	128	NR	830	2	NR	960	0	NR
445	151	NR	575	692	NR	705	109	NR	835	2	NR	965	0	NR
450	182	NR	580	773	NR	710	93	NR	840	2	NR	970	0	NR
455	154	NR	585	847	NR	715	79	NR	845	2	NR	975	0	NR
460	116	NR	590	913	NR	720	68	NR	850	1	NR	980	0	NR
465	99	NR	595	962	NR	725	58	NR	855	1	NR	985	0	NR
470	84	NR	600	990	NR	730	49	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	84	NR	610	986	NR	740	35	NR	870	1	NR	1000	0	NR
485	99	NR	615	960	NR	745	30	NR	875	1	NR			

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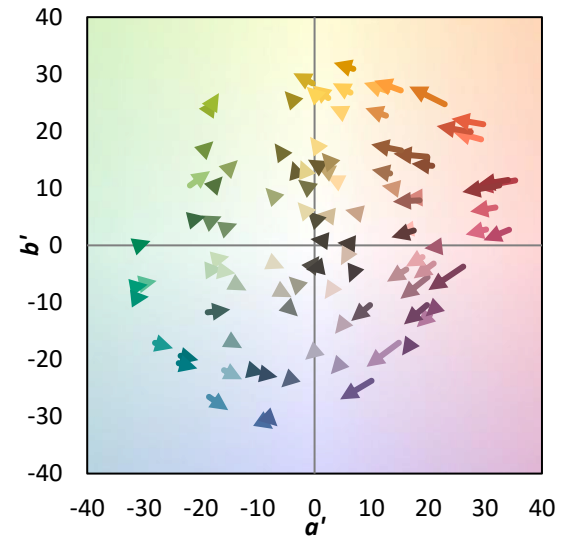
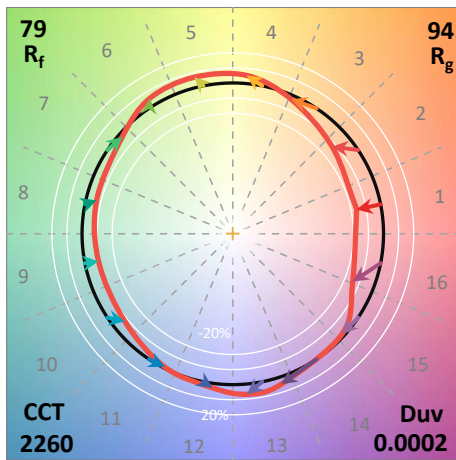
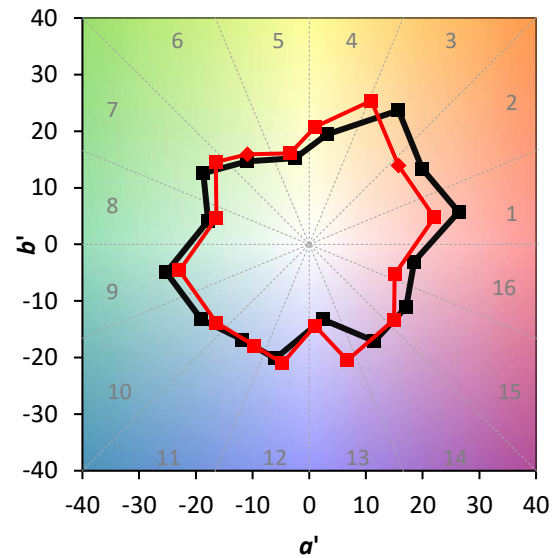
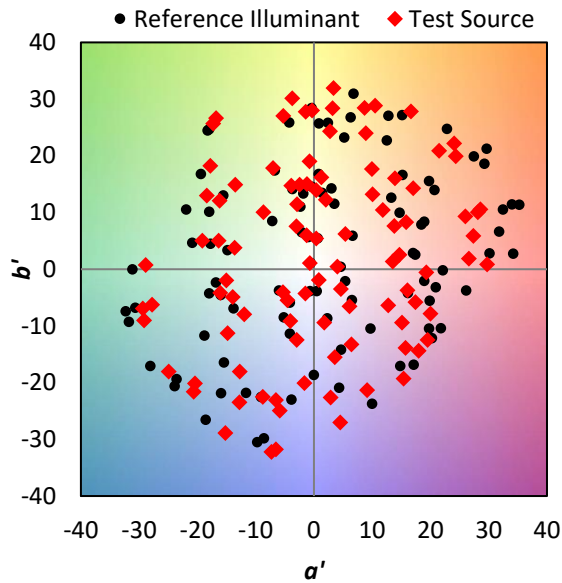
TM-30-18

Summary

$R_f = 78.7$
 $R_g = 93.7$
 $CIE R_a = 72.8$
 $R_g = -28.5$

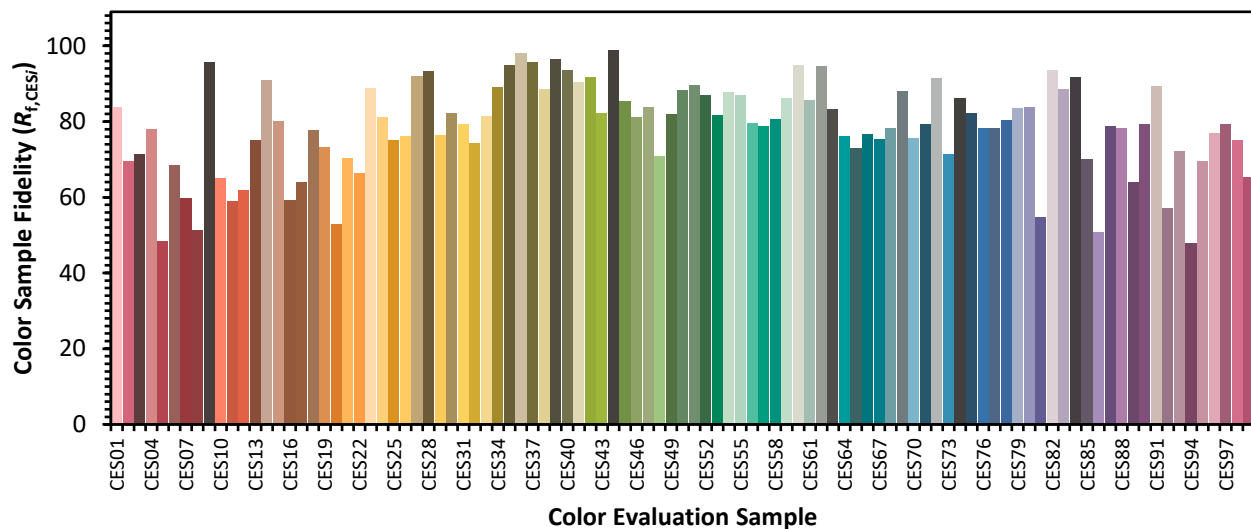


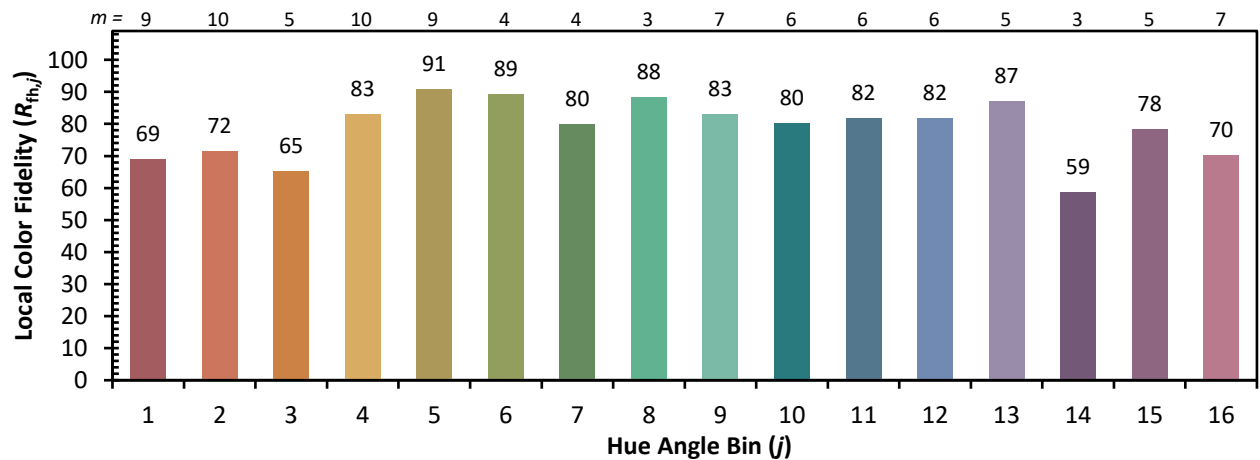
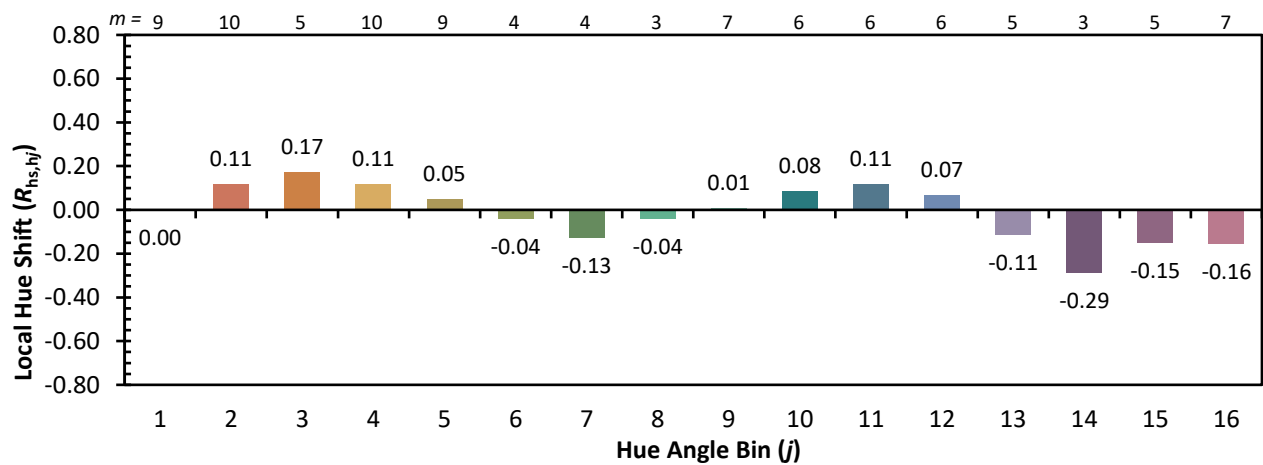
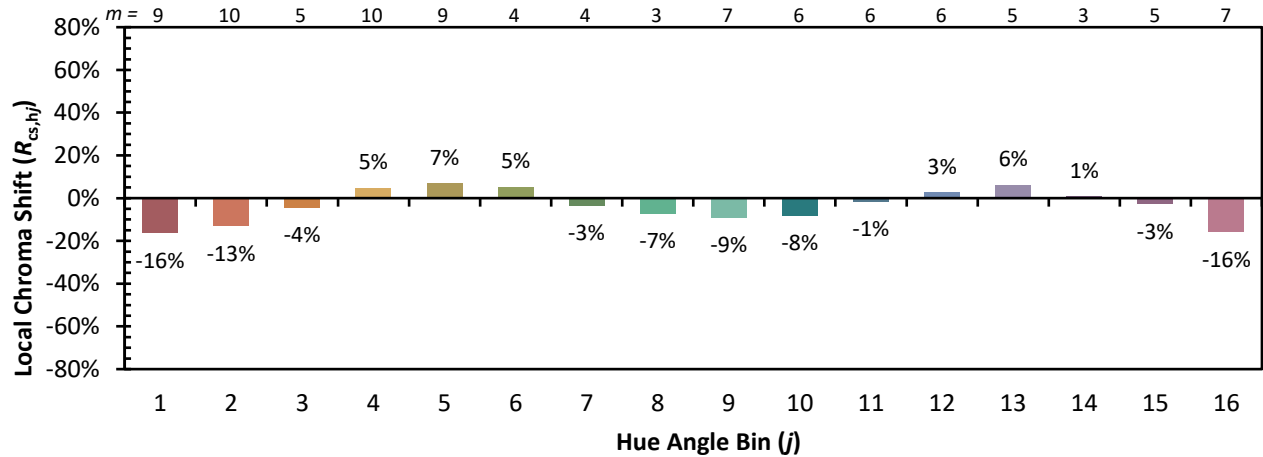
Color Vector Graphics

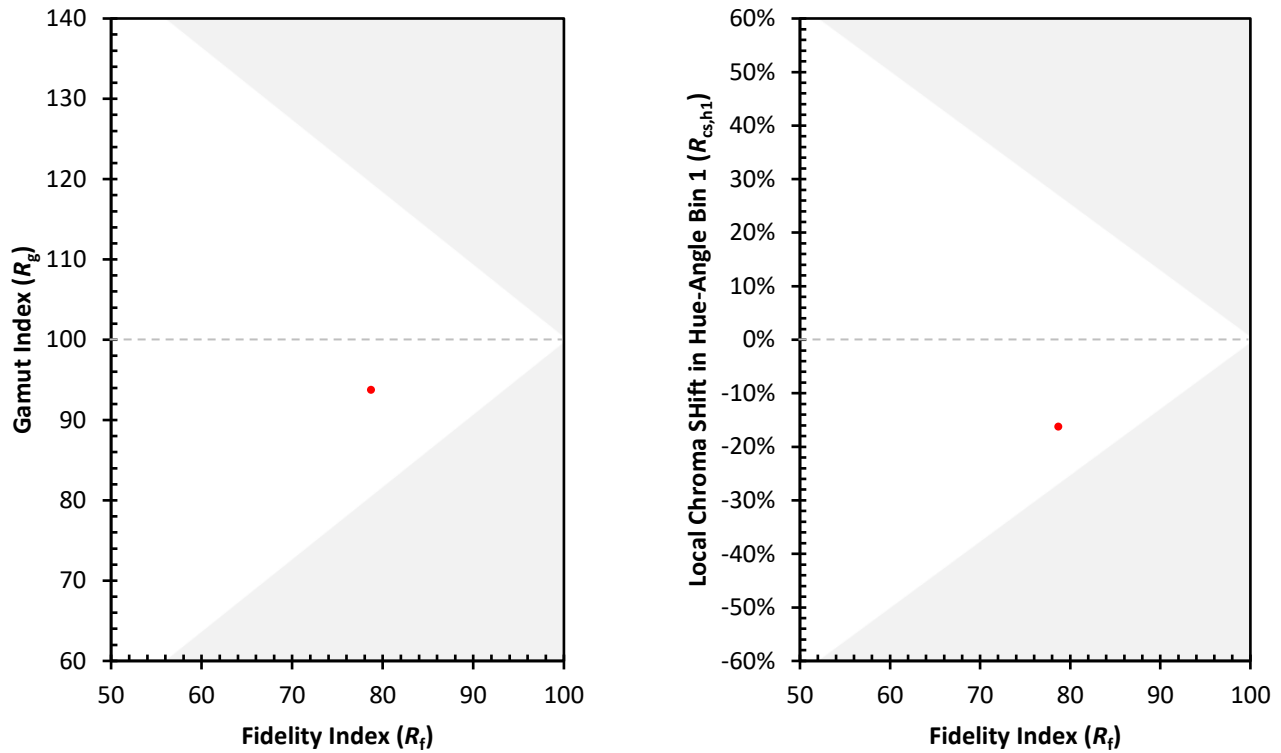


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 78
CES02 = 65	CES27 = 92	CES52 = 87	CES77 = 78
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 80
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 84
CES05 = 51	CES30 = 82	CES55 = 87	CES80 = 84
CES06 = 52	CES31 = 79	CES56 = 80	CES81 = 55
CES07 = 44	CES32 = 74	CES57 = 79	CES82 = 94
CES08 = 42	CES33 = 81	CES58 = 81	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 86	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 70
CES11 = 61	CES36 = 98	CES61 = 86	CES86 = 51
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 79
CES13 = 45	CES38 = 89	CES63 = 83	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 76	CES89 = 64
CES15 = 72	CES40 = 94	CES65 = 73	CES90 = 79
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 89
CES17 = 51	CES42 = 92	CES67 = 75	CES92 = 57
CES18 = 57	CES43 = 82	CES68 = 78	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 79	CES96 = 77
CES22 = 81	CES47 = 84	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 86	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 82	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)