

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: P980858

Luminaire Tested: **UFLD-L-CA4-390-760-U-66**

Issue Date: 04/10/2025

Test Information

Test Method: LM-79-08
Report Number: P980858
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-CA4-390-760-U-66
Description: UTILITY FLOOD LARGE SIZE 390W 70CRI 5700K LED FIXTURE NEMA 6
Light Source: (4) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57239.8 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.67' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

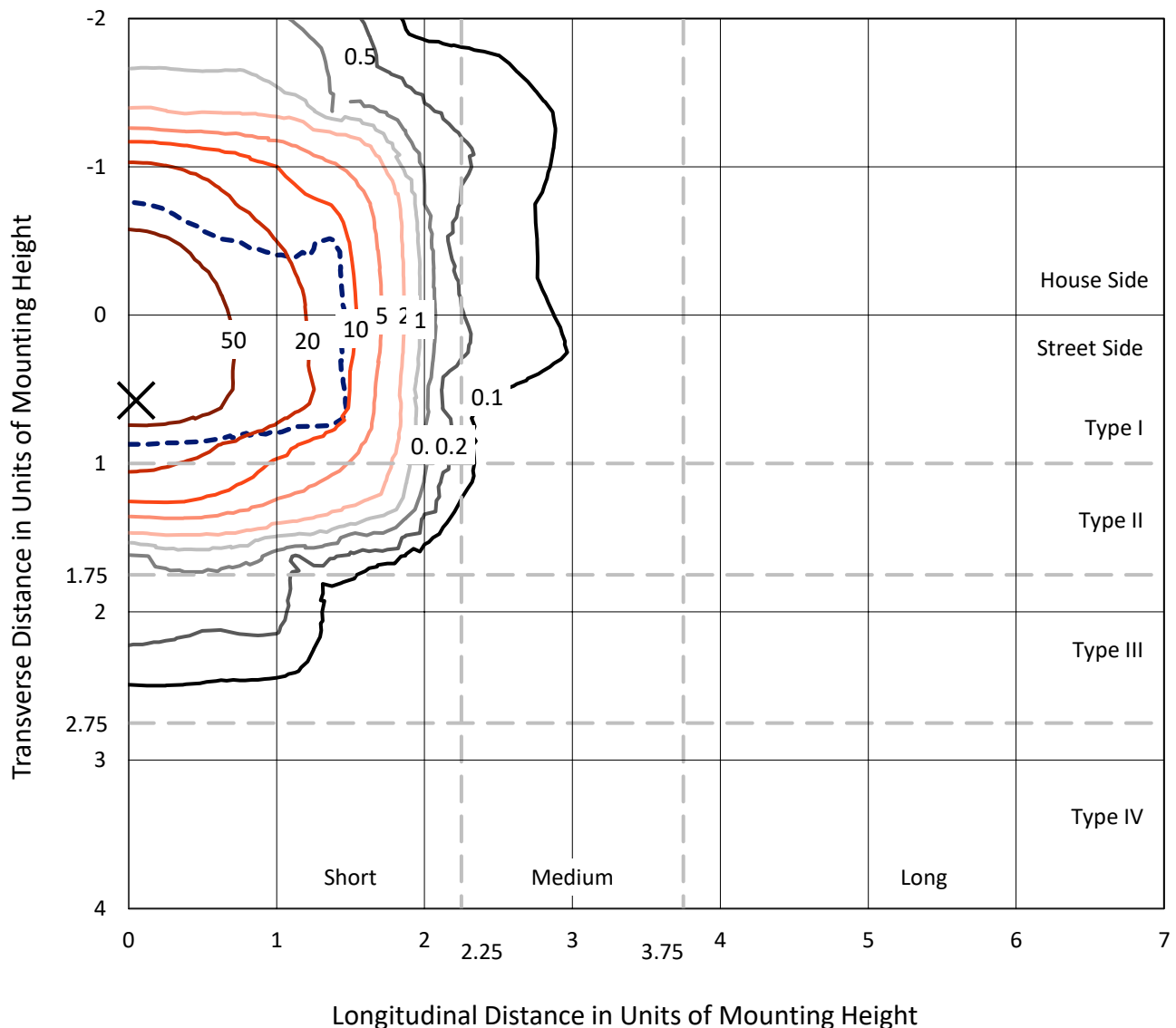
Input Watts (W): 388.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 2.46%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

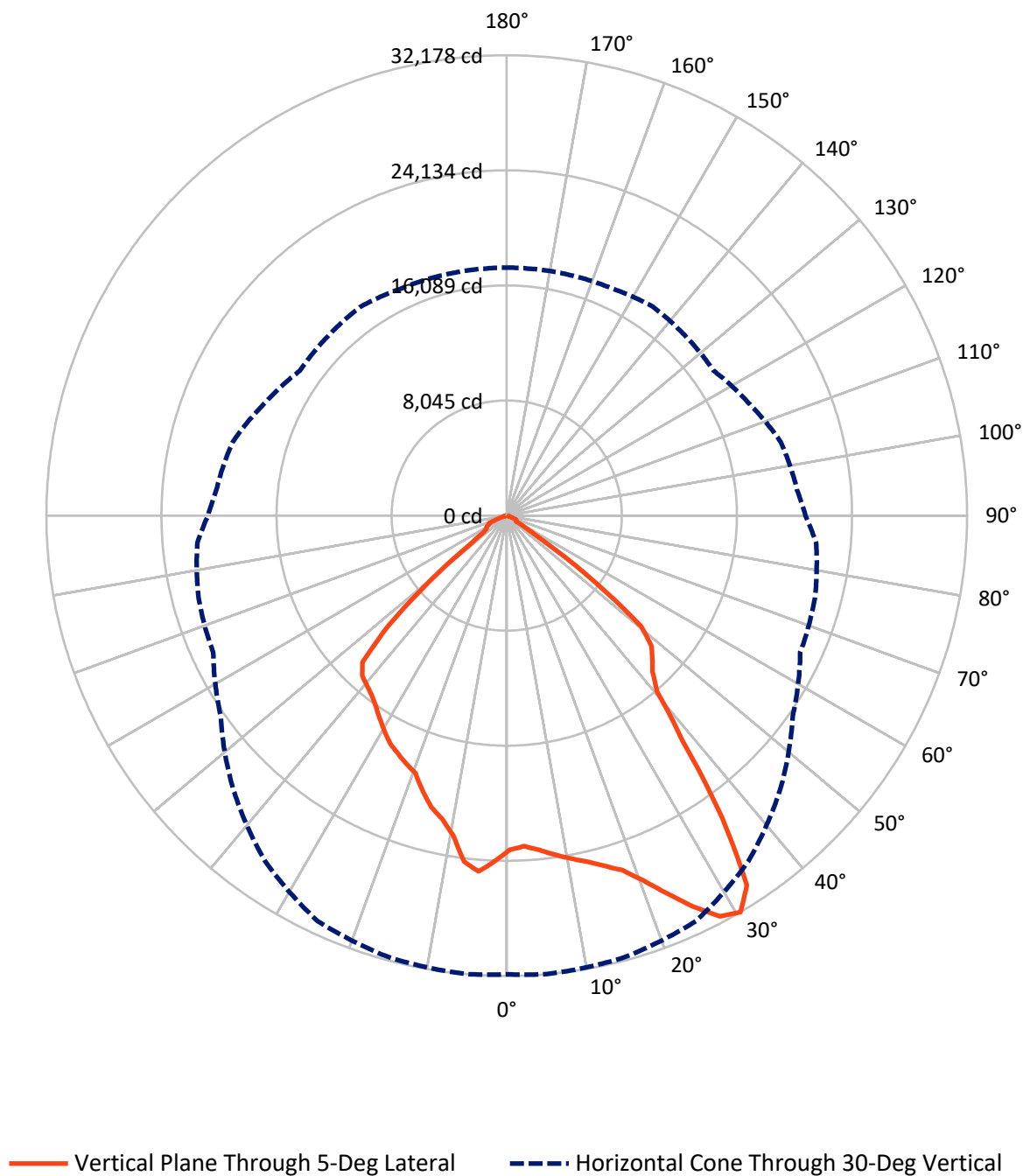
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 106.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: UFLD-L-CA4-390-760-U-66

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25316.6	0.0	25316.6
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	31923.2	0.0	31923.2
	% Fixture	55.8	0.0	55.8
Total	Lumens	57239.8	0.0	57239.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2285.5	4.0
10°-20°	6620.7	11.6
20°-30°	10550.6	18.4
30°-40°	13190.0	23.0
40°-50°	12943.8	22.6
50°-60°	9254.0	16.2
60°-70°	2047.5	3.6
70°-80°	314.5	0.5
80°-90°	33.3	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°	57239.8	100.0
0°-180°	57239.8	100.0

Coefficient of Utilization



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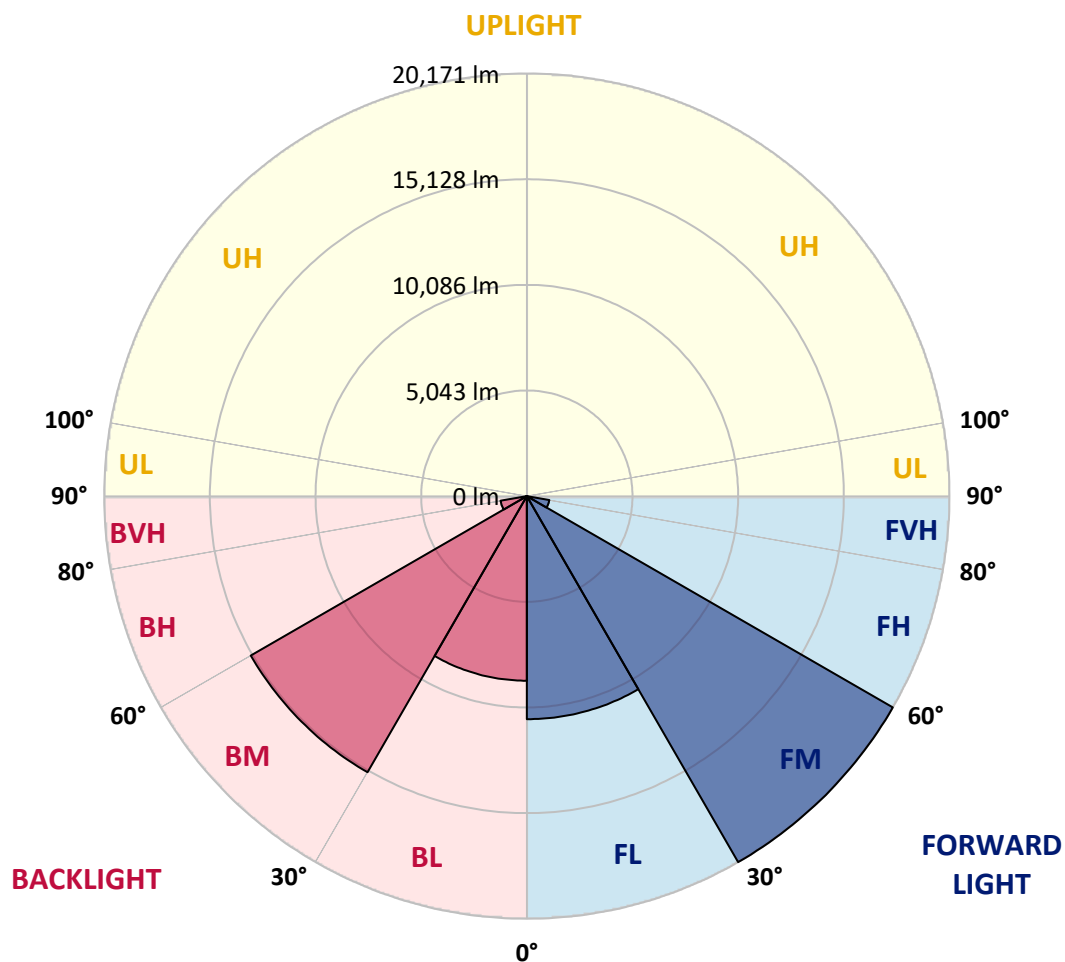
CATALOG NUMBER: UFLD-L-CA4-390-760-U-66

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10646.1	18.6			
FM	(30°-60°)	20171.3	35.2			
FH	(60°-80°)	1089.0	1.9			G1/1800
FVH	(80°-90°)	16.8	0.0			G1/100
BL	(0°-30°)	8810.7	15.4	B5		
BM	(30°-60°)	15216.5	26.6	B5		
BH	(60°-80°)	1273.0	2.2	B3/2500		G3/2500
BVH	(80°-90°)	16.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3
2.5°	23101.8	23139.2	23176.5	23232.6	23307.3	23344.6	23307.3	23269.9	23251.2	23288.6	23307.3
5°	23419.3	23475.3	23494.0	23531.4	23568.7	23531.4	23512.7	23475.3	23456.7	23475.3	23531.4
7.5°	23886.2	23923.6	23904.9	23886.2	23867.5	23736.8	23606.1	23550.0	23550.0	23606.1	23755.5
10°	24297.1	24371.8	24278.4	24203.7	24073.0	23867.5	23643.4	23512.7	23550.0	23662.1	23848.9
12.5°	24820.0	24820.0	24726.6	24651.9	24353.1	24110.3	23811.5	23606.1	23606.1	23811.5	24016.9
15°	25455.0	25398.9	25361.6	25156.2	24801.3	24409.1	24035.6	23736.8	23680.8	23998.3	24129.0
17.5°	26258.0	26052.6	25959.2	25604.4	25118.8	24614.6	24110.3	23867.5	23699.5	24035.6	23886.2
20°	27359.9	27210.5	26911.7	26351.4	25361.6	24707.9	24110.3	23792.8	23662.1	23848.9	23699.5
22.5°	28779.2	28685.9	28013.5	27303.9	25996.6	24782.6	24016.9	23587.4	23550.0	23456.7	23139.2
25°	30516.1	30273.3	29582.3	28573.8	26949.0	25511.0	23998.3	23213.9	23083.2	22840.4	22280.1
27.5°	31991.5	31730.0	30889.6	29993.2	28256.3	26594.2	24147.7	22765.7	22616.3	22448.2	21757.2
30°	32066.2	32178.2	31954.1	31281.8	29470.2	27042.4	24409.1	22634.9	22298.8	21701.2	20879.4
32.5°	30553.4	30814.9	31356.5	31599.3	30385.4	27584.0	24633.2	22691.0	22074.7	20636.6	19964.3
35°	25380.3	25903.2	28125.6	30217.3	30646.8	28368.4	24820.0	22691.0	22000.0	19870.9	19348.0
37.5°	19497.4	19927.0	21813.2	25604.4	29488.9	28853.9	25230.9	22560.2	21906.6	19927.0	19217.3
40°	15930.4	16173.2	16994.9	19572.1	25417.6	28050.9	25641.7	22709.6	21626.5	19964.3	19292.0
42.5°	14959.2	14940.6	14772.5	15724.9	19385.4	25697.8	25921.9	23083.2	21159.6	19721.5	19161.3
45°	14305.6	14268.2	14118.8	14305.6	15332.7	21028.8	25716.4	23755.5	20580.6	18862.5	18488.9
47.5°	13595.9	13614.6	13558.6	13633.3	13446.5	15967.7	24558.5	24035.6	19590.8	17424.4	17293.7
50°	11896.4	12176.6	12923.6	12998.3	12512.7	12886.2	21028.8	23904.9	18881.1	17013.6	16901.5
52.5°	7395.6	7843.8	10047.5	11915.1	11635.0	11635.0	16042.4	24091.6	17611.2	16864.2	16938.9
55°	2614.6	2950.8	5378.6	8198.6	10421.0	10626.5	12680.8	21439.7	17461.8	17125.6	17200.3
57.5°	653.6	803.1	1643.5	3548.4	7022.1	9636.7	11336.1	17704.6	13259.7	12792.8	12979.6
60°	765.7	747.0	1027.2	1139.2	2726.7	7619.7	10215.6	11952.4	8553.5	8011.9	8105.3
62.5°	821.7	765.7	803.1	1008.5	448.2	3735.1	8142.6	7115.4	3529.7	2614.6	2764.0
65°	728.4	691.0	635.0	933.8	317.5	691.0	4799.7	2091.7	504.2	803.1	728.4
67.5°	485.6	504.2	522.9	747.0	298.8	298.8	635.0	522.9	354.8	728.4	635.0
70°	280.1	298.8	354.8	448.2	298.8	242.8	280.1	429.5	298.8	728.4	635.0
72.5°	168.1	168.1	168.1	186.8	298.8	205.4	186.8	354.8	261.5	672.3	635.0
75°	130.7	130.7	130.7	112.1	261.5	130.7	130.7	280.1	224.1	485.6	485.6
77.5°	112.1	112.1	112.1	93.4	149.4	112.1	112.1	205.4	205.4	242.8	280.1
80°	74.7	74.7	74.7	74.7	93.4	93.4	74.7	112.1	93.4	112.1	130.7
82.5°	37.4	56.0	56.0	37.4	56.0	56.0	56.0	74.7	56.0	74.7	74.7
85°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	37.4	18.7	18.7	37.4
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-L-CA4-390-760-U-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3	23363.3
2.5°	23344.6	23438.0	23568.7	23774.2	23848.9	23979.6	24091.6	24185.0	24185.0	24147.7
5°	23643.4	23904.9	24259.7	24577.2	24689.3	24820.0	24876.0	24969.4	24950.7	24932.1
7.5°	23904.9	24315.8	24689.3	24913.4	24876.0	24707.9	24595.9	24446.5	24390.5	24427.8
10°	24110.3	24483.8	24651.9	24502.5	24054.3	23662.1	23157.9	22821.7	22653.6	22709.6
12.5°	24185.0	24315.8	24166.3	23344.6	22784.3	22410.8	22000.0	21775.9	21682.5	21701.2
15°	24203.7	23904.9	23083.2	22466.9	22056.0	21589.1	21252.9	21047.5	21047.5	21066.2
17.5°	23811.5	23083.2	22373.5	21906.6	21327.6	20842.1	20655.3	20580.6	20113.7	20188.4
20°	23456.7	22410.8	22018.6	21290.3	20599.3	20281.8	19198.6	19086.6	19105.2	19123.9
22.5°	22709.6	21925.3	21570.4	20618.0	19833.6	18955.8	18806.4	18694.4	18713.0	18713.0
25°	21682.5	21234.3	20748.7	19758.9	18806.4	18638.3	18526.3	18376.9	18302.2	18320.9
27.5°	21103.5	20543.3	19646.8	18806.4	18190.1	18264.8	18134.1	17910.0	17910.0	17928.7
30°	20375.2	19833.6	18638.3	17648.5	17704.6	17816.6	17499.1	17387.1	17331.0	17331.0
32.5°	19478.7	18731.7	17685.9	16752.1	17088.3	17050.9	16658.7	16696.1	16733.4	16696.1
35°	18806.4	17835.3	16957.5	16453.3	16322.6	16173.2	15967.7	16098.4	16154.5	16117.1
37.5°	18638.3	17480.4	16565.3	16210.5	15706.3	15426.1	15482.1	15612.9	15687.6	15668.9
40°	18582.3	17125.6	16229.2	15855.7	15183.3	14940.6	15015.3	15276.7	15370.1	15351.4
42.5°	18507.6	16882.8	16023.7	15575.5	14641.7	14473.7	14828.5	15071.3	15090.0	15071.3
45°	18115.4	16621.4	15893.0	14996.6	13820.0	14025.4	14473.7	14604.4	14380.3	14286.9
47.5°	17200.3	16135.8	15500.8	14286.9	13147.7	13539.9	13595.9	12176.6	11354.8	11168.1
50°	16938.9	16154.5	15052.6	13446.5	12736.8	13129.0	10682.5	8161.3	7134.1	6928.7
52.5°	16864.2	15967.7	15220.7	12568.7	12587.4	11074.7	6741.9	3996.6	3212.2	3062.8
55°	17050.9	16789.4	15500.8	12045.8	11709.7	7208.8	3137.5	1886.2	1942.3	1886.2
57.5°	12867.6	14044.1	15837.0	11224.1	8553.5	3473.7	1979.6	1830.2	1699.5	1662.1
60°	8030.5	9151.1	11597.6	9655.3	4388.8	2073.0	2017.0	1699.5	1643.5	1624.8
62.5°	2651.9	4071.3	6648.5	6349.7	1213.9	2054.3	2035.7	1512.7	1512.7	1512.7
65°	672.3	691.0	1830.2	2185.1	896.4	1830.2	1942.3	1419.4	1382.0	1438.0
67.5°	578.9	522.9	971.1	859.1	747.0	1269.9	1699.5	1363.3	1288.6	1288.6
70°	578.9	616.3	952.5	803.1	466.9	691.0	1232.6	840.4	747.0	691.0
72.5°	541.6	597.6	840.4	728.4	317.5	336.2	541.6	280.1	261.5	224.1
75°	466.9	485.6	653.6	653.6	336.2	168.1	224.1	186.8	186.8	168.1
77.5°	317.5	242.8	373.5	466.9	242.8	112.1	93.4	93.4	93.4	74.7
80°	168.1	93.4	93.4	74.7	93.4	93.4	56.0	74.7	74.7	56.0
82.5°	93.4	56.0	56.0	37.4	37.4	56.0	37.4	37.4	37.4	37.4
85°	37.4	37.4	18.7	18.7	18.7	37.4	18.7	18.7	18.7	18.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	18.7
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: SP1-2501-319-12

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7060-66

Data in this report applies to families of products including NFFLD-C55-7060-66

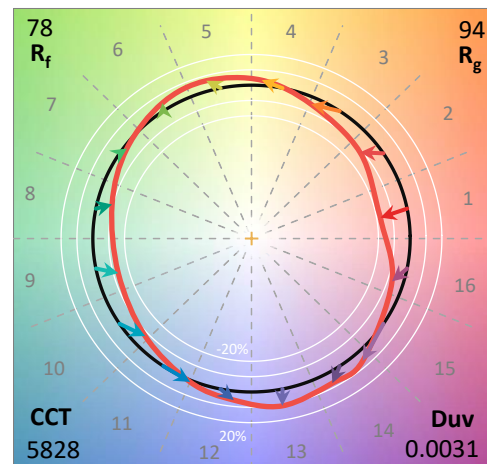
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-319-12
 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-C55-7060-66**
 Description: LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K): 5828
 CIE u' : 0.2021
 CIE v' : 0.4762
 Duv: 0.0031
 CIE x: 0.3252
 CIE y: 0.3405
 CIE z: 0.3343
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 503
 Purity: 2.477017
 R_f: 78
 R_g: 93.6

CRI (Ra): 76.1
 R1: 72.5
 R2: 81.4
 R3: 88.0
 R4: 76.1
 R5: 74.8
 R6: 75.0
 R7: 82.7
 R8: 58.0
 R9: -29.6
 R10: 56.3
 R11: 74.3
 R12: 56.2
 R13: 74.3
 R14: 93.5
 R15: 65.1



Test Conditions

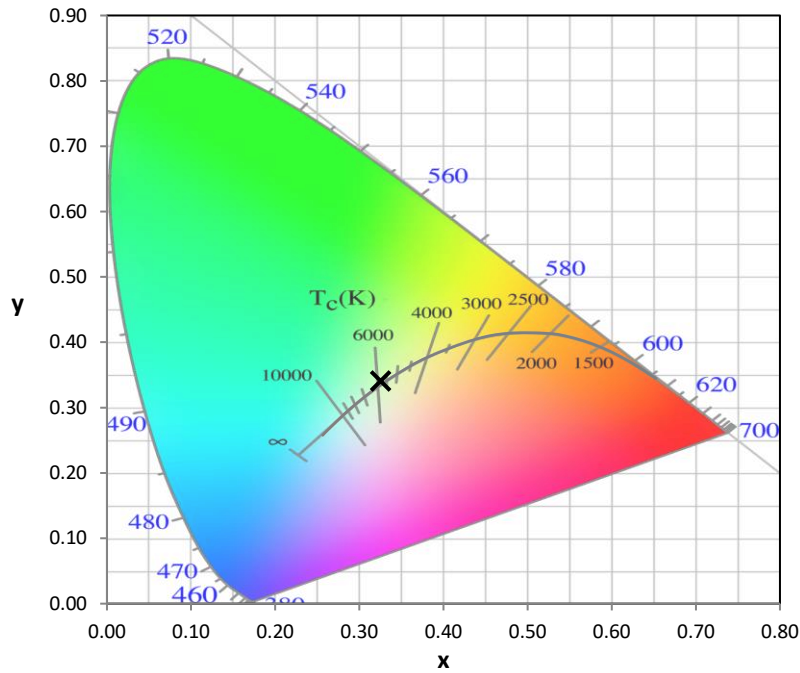
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2501-319-12

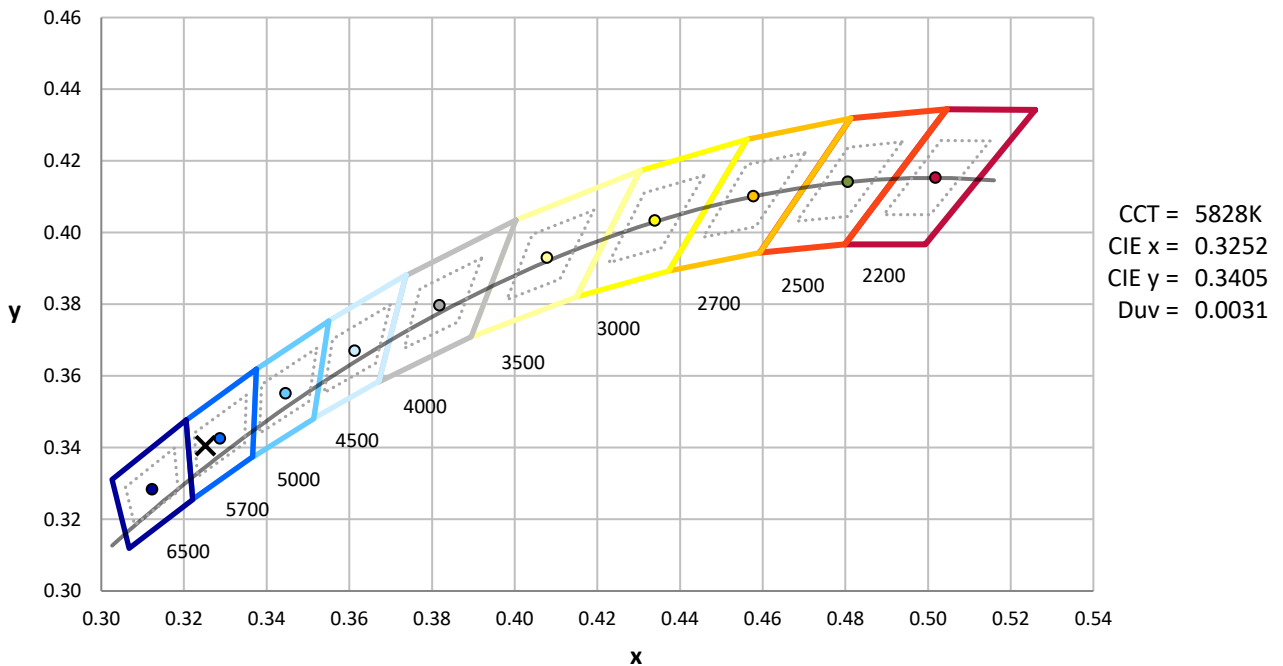
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



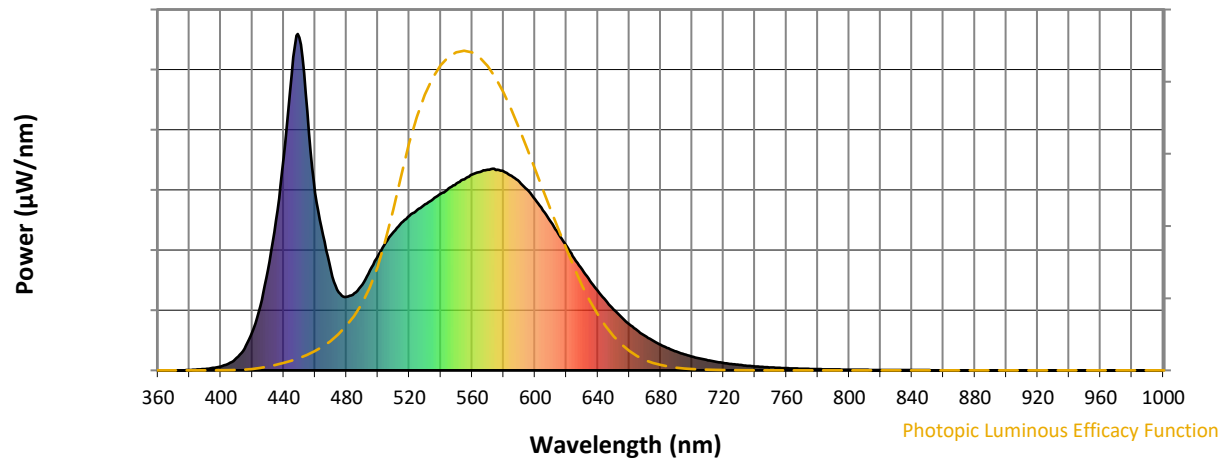
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

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Photopic Flux vs. Wavelength

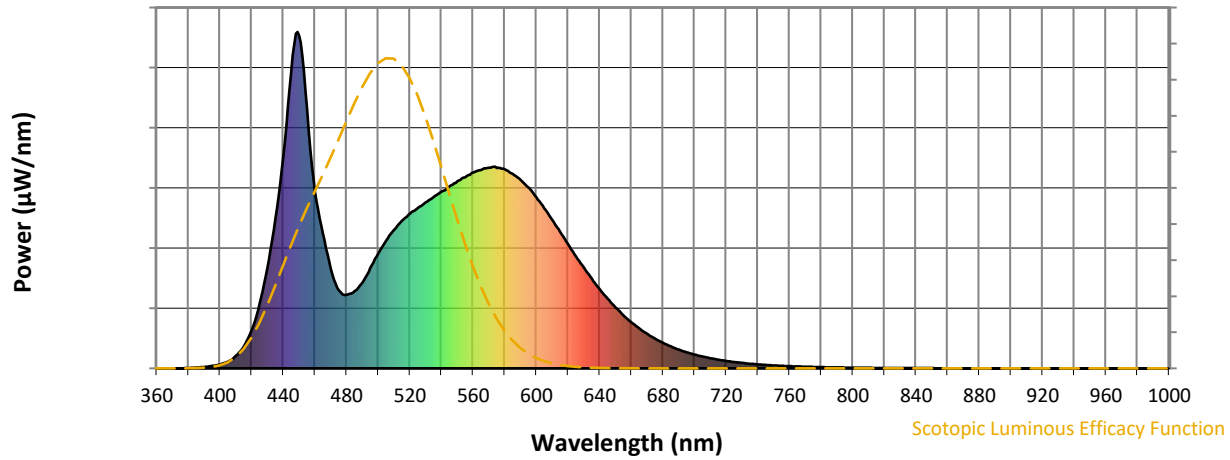


Photopic Lumens: NR

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	255	NR	620	370	NR	750	9	NR	880	0	NR
365	0	NR	495	298	NR	625	333	NR	755	8	NR	885	0	NR
370	0	NR	500	340	NR	630	300	NR	760	7	NR	890	0	NR
375	0	NR	505	380	NR	635	267	NR	765	6	NR	895	0	NR
380	1	NR	510	412	NR	640	236	NR	770	5	NR	900	0	NR
385	2	NR	515	439	NR	645	208	NR	775	4	NR	905	0	NR
390	4	NR	520	459	NR	650	181	NR	780	4	NR	910	0	NR
395	7	NR	525	477	NR	655	158	NR	785	3	NR	915	0	NR
400	12	NR	530	494	NR	660	137	NR	790	3	NR	920	0	NR
405	20	NR	535	509	NR	665	119	NR	795	2	NR	925	0	NR
410	37	NR	540	525	NR	670	102	NR	800	2	NR	930	0	NR
415	65	NR	545	541	NR	675	88	NR	805	2	NR	935	0	NR
420	114	NR	550	555	NR	680	76	NR	810	2	NR	940	0	NR
425	191	NR	555	568	NR	685	65	NR	815	1	NR	945	0	NR
430	299	NR	560	582	NR	690	56	NR	820	1	NR	950	0	NR
435	445	NR	565	589	NR	695	48	NR	825	1	NR	955	0	NR
440	633	NR	570	597	NR	700	41	NR	830	1	NR	960	0	NR
445	878	NR	575	595	NR	705	35	NR	835	1	NR	965	0	NR
450	989	NR	580	592	NR	710	30	NR	840	1	NR	970	0	NR
455	770	NR	585	578	NR	715	26	NR	845	1	NR	975	0	NR
460	528	NR	590	561	NR	720	22	NR	850	1	NR	980	0	NR
465	403	NR	595	537	NR	725	19	NR	855	1	NR	985	0	NR
470	296	NR	600	508	NR	730	16	NR	860	0	NR	990	0	NR
475	232	NR	605	476	NR	735	14	NR	865	0	NR	995	0	NR
480	219	NR	610	441	NR	740	12	NR	870	0	NR	1000	0	NR
485	230	NR	615	405	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2501-319-12

Scotopic Flux vs. Wavelength



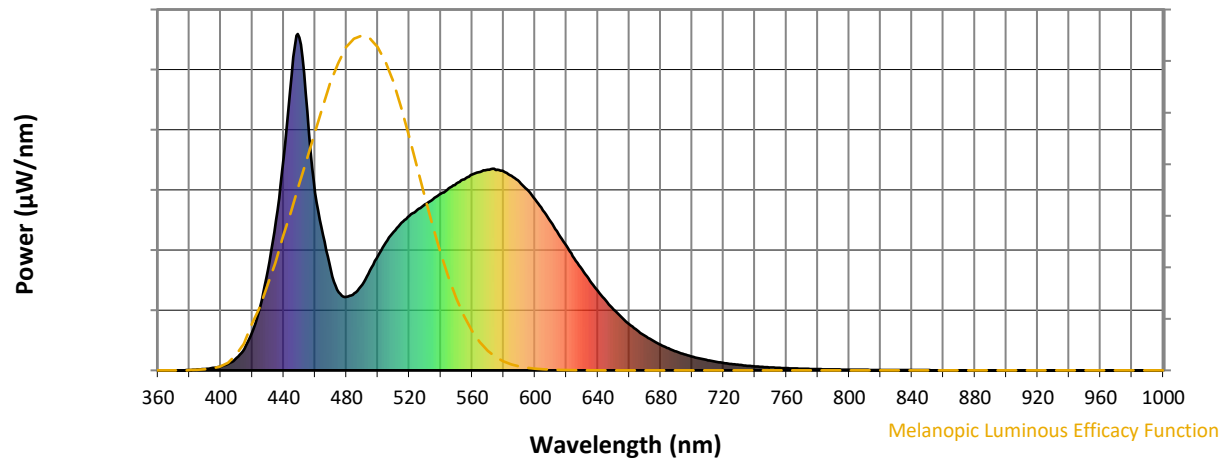
Scotopic Lumens: NR

S/P: 2.03

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	255	NR	620	370	NR	750	9	NR	880	0	NR
365	0	NR	495	298	NR	625	333	NR	755	8	NR	885	0	NR
370	0	NR	500	340	NR	630	300	NR	760	7	NR	890	0	NR
375	0	NR	505	380	NR	635	267	NR	765	6	NR	895	0	NR
380	1	NR	510	412	NR	640	236	NR	770	5	NR	900	0	NR
385	2	NR	515	439	NR	645	208	NR	775	4	NR	905	0	NR
390	4	NR	520	459	NR	650	181	NR	780	4	NR	910	0	NR
395	7	NR	525	477	NR	655	158	NR	785	3	NR	915	0	NR
400	12	NR	530	494	NR	660	137	NR	790	3	NR	920	0	NR
405	20	NR	535	509	NR	665	119	NR	795	2	NR	925	0	NR
410	37	NR	540	525	NR	670	102	NR	800	2	NR	930	0	NR
415	65	NR	545	541	NR	675	88	NR	805	2	NR	935	0	NR
420	114	NR	550	555	NR	680	76	NR	810	2	NR	940	0	NR
425	191	NR	555	568	NR	685	65	NR	815	1	NR	945	0	NR
430	299	NR	560	582	NR	690	56	NR	820	1	NR	950	0	NR
435	445	NR	565	589	NR	695	48	NR	825	1	NR	955	0	NR
440	633	NR	570	597	NR	700	41	NR	830	1	NR	960	0	NR
445	878	NR	575	595	NR	705	35	NR	835	1	NR	965	0	NR
450	989	NR	580	592	NR	710	30	NR	840	1	NR	970	0	NR
455	770	NR	585	578	NR	715	26	NR	845	1	NR	975	0	NR
460	528	NR	590	561	NR	720	22	NR	850	1	NR	980	0	NR
465	403	NR	595	537	NR	725	19	NR	855	1	NR	985	0	NR
470	296	NR	600	508	NR	730	16	NR	860	0	NR	990	0	NR
475	232	NR	605	476	NR	735	14	NR	865	0	NR	995	0	NR
480	219	NR	610	441	NR	740	12	NR	870	0	NR	1000	0	NR
485	230	NR	615	405	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.34

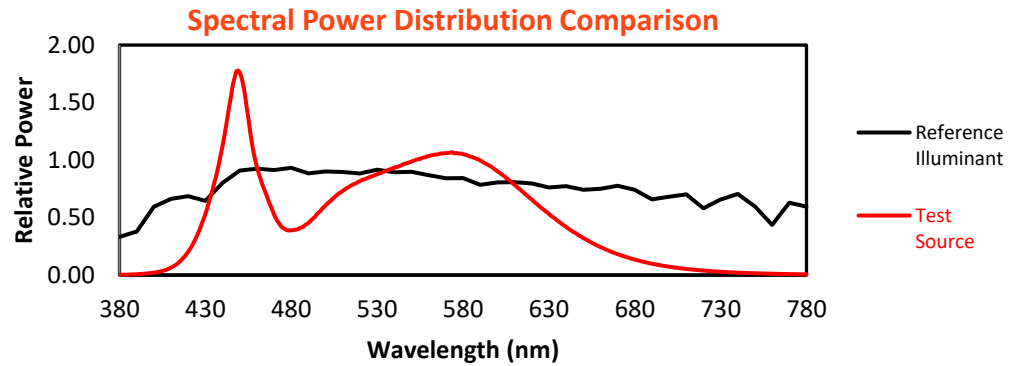
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	255	NR	620	370	NR	750	9	NR	880	0	NR
365	0	NR	495	298	NR	625	333	NR	755	8	NR	885	0	NR
370	0	NR	500	340	NR	630	300	NR	760	7	NR	890	0	NR
375	0	NR	505	380	NR	635	267	NR	765	6	NR	895	0	NR
380	1	NR	510	412	NR	640	236	NR	770	5	NR	900	0	NR
385	2	NR	515	439	NR	645	208	NR	775	4	NR	905	0	NR
390	4	NR	520	459	NR	650	181	NR	780	4	NR	910	0	NR
395	7	NR	525	477	NR	655	158	NR	785	3	NR	915	0	NR
400	12	NR	530	494	NR	660	137	NR	790	3	NR	920	0	NR
405	20	NR	535	509	NR	665	119	NR	795	2	NR	925	0	NR
410	37	NR	540	525	NR	670	102	NR	800	2	NR	930	0	NR
415	65	NR	545	541	NR	675	88	NR	805	2	NR	935	0	NR
420	114	NR	550	555	NR	680	76	NR	810	2	NR	940	0	NR
425	191	NR	555	568	NR	685	65	NR	815	1	NR	945	0	NR
430	299	NR	560	582	NR	690	56	NR	820	1	NR	950	0	NR
435	445	NR	565	589	NR	695	48	NR	825	1	NR	955	0	NR
440	633	NR	570	597	NR	700	41	NR	830	1	NR	960	0	NR
445	878	NR	575	595	NR	705	35	NR	835	1	NR	965	0	NR
450	989	NR	580	592	NR	710	30	NR	840	1	NR	970	0	NR
455	770	NR	585	578	NR	715	26	NR	845	1	NR	975	0	NR
460	528	NR	590	561	NR	720	22	NR	850	1	NR	980	0	NR
465	403	NR	595	537	NR	725	19	NR	855	1	NR	985	0	NR
470	296	NR	600	508	NR	730	16	NR	860	0	NR	990	0	NR
475	232	NR	605	476	NR	735	14	NR	865	0	NR	995	0	NR
480	219	NR	610	441	NR	740	12	NR	870	0	NR	1000	0	NR
485	230	NR	615	405	NR	745	10	NR	875	0	NR			

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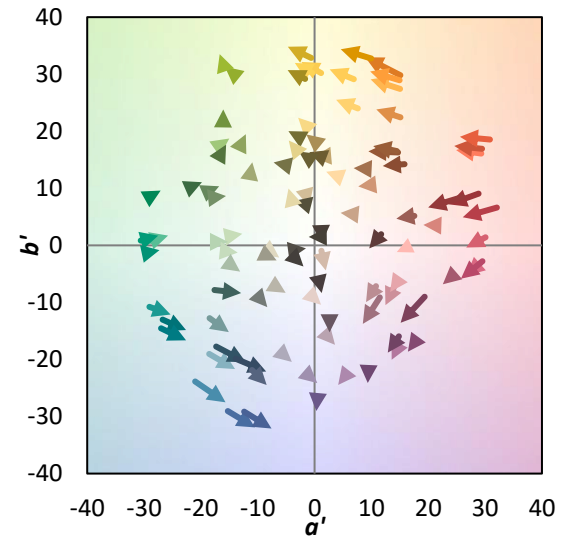
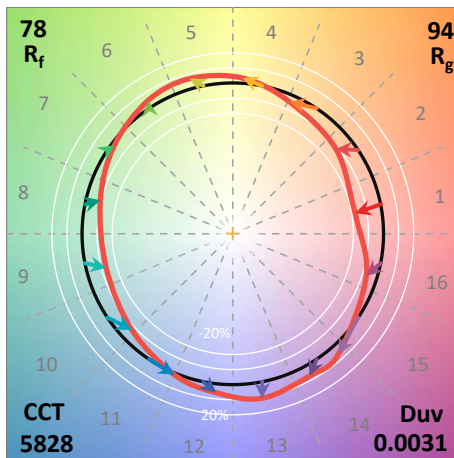
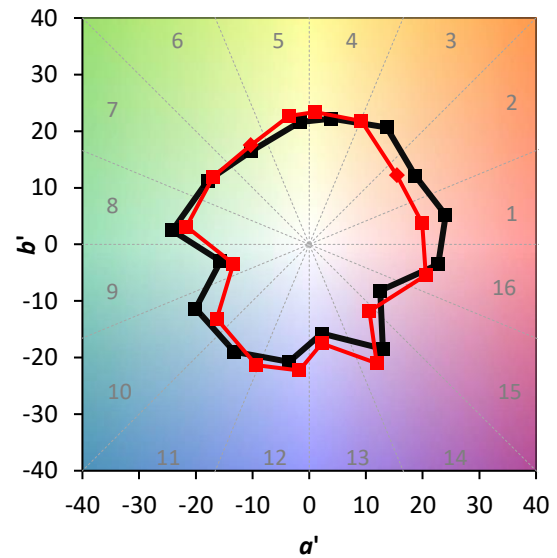
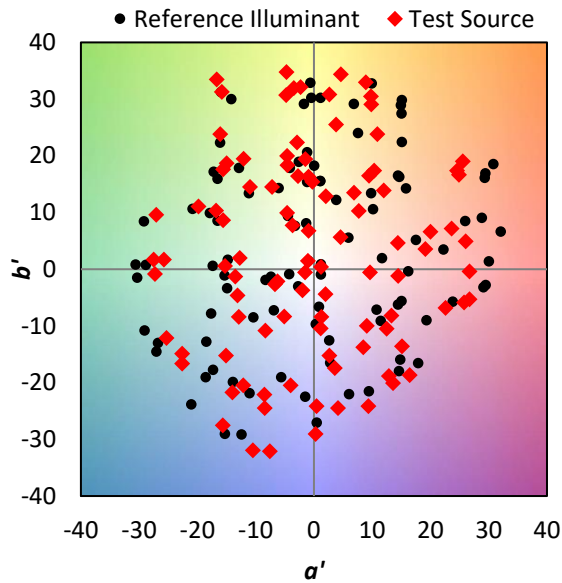
TM-30-18

Summary

$R_f = 78$
 $R_g = 93.6$
 CIE $R_a = 76.1$
 $R_g = -29.6$

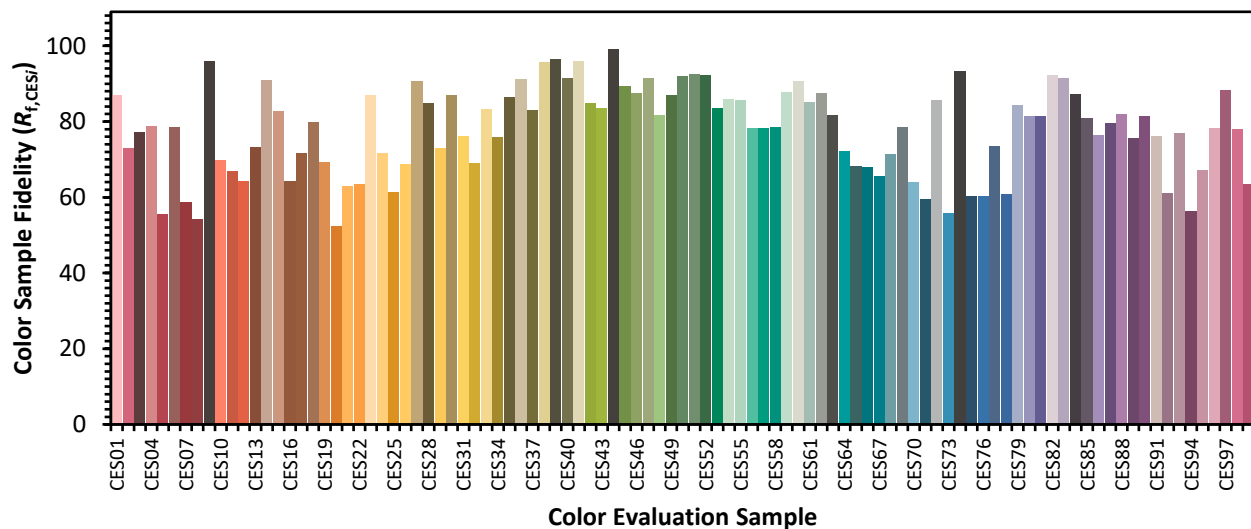


Color Vector Graphics

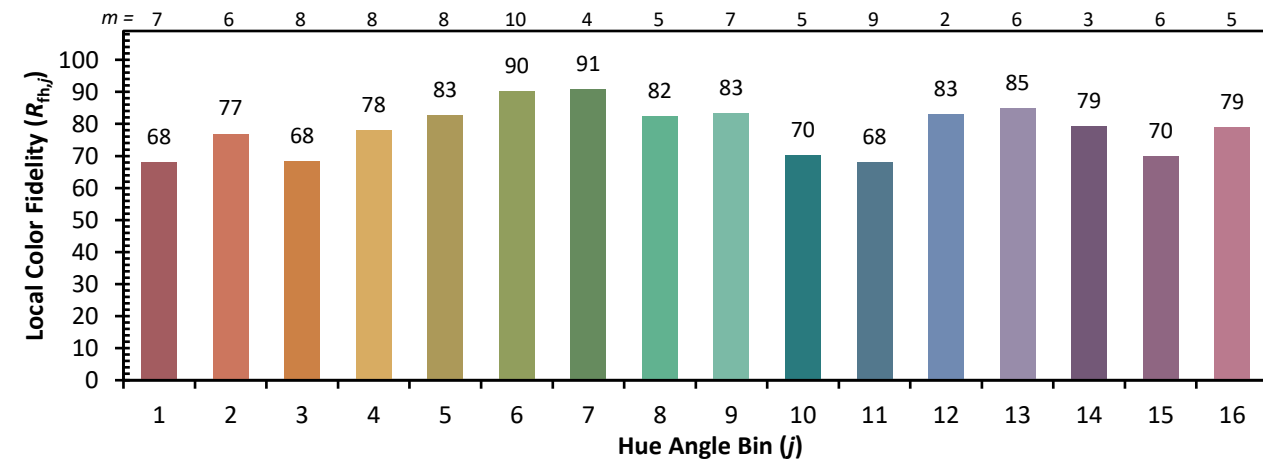
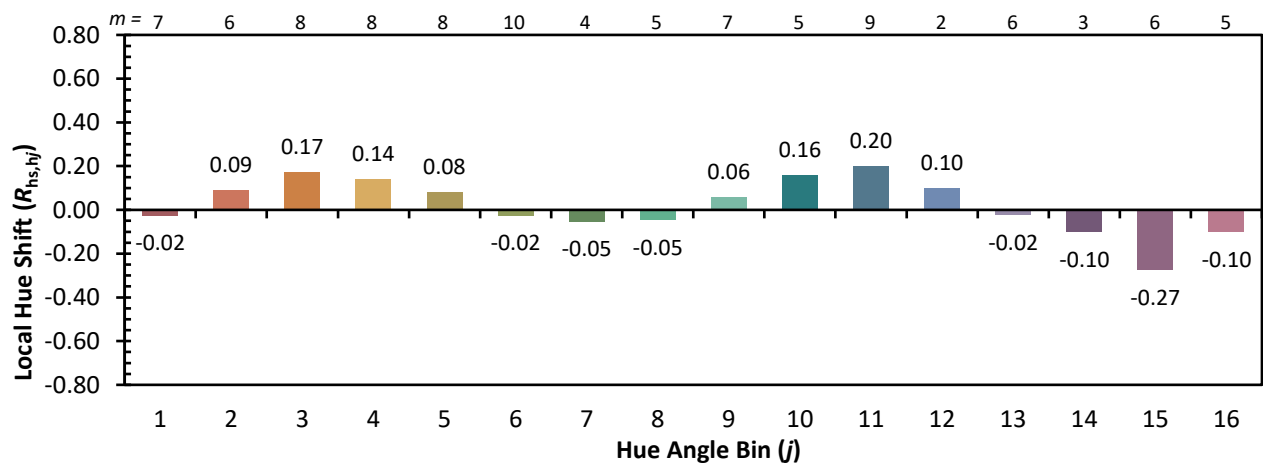
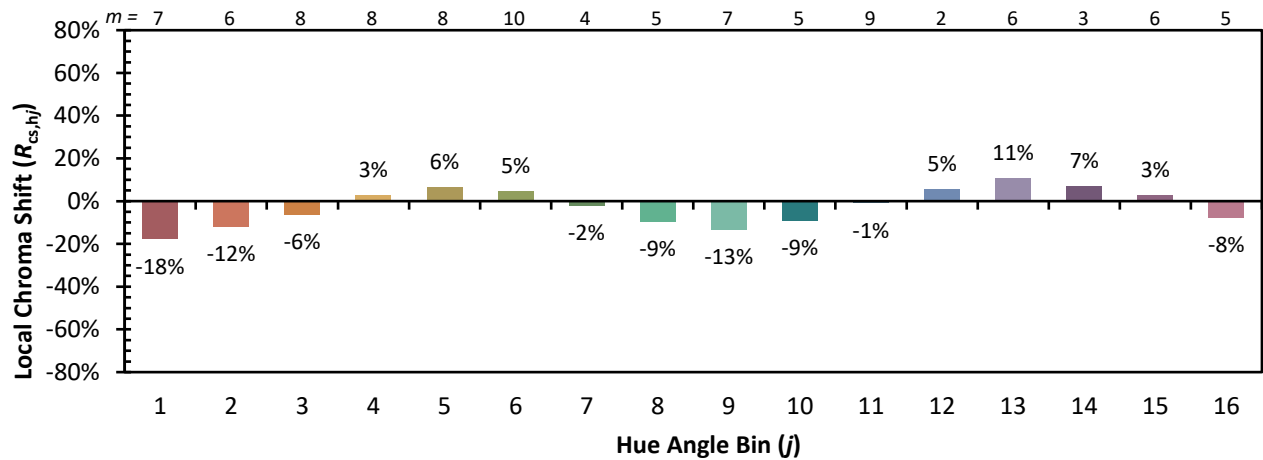


Individual Sample Fidelity Index ($R_{f,i}$)

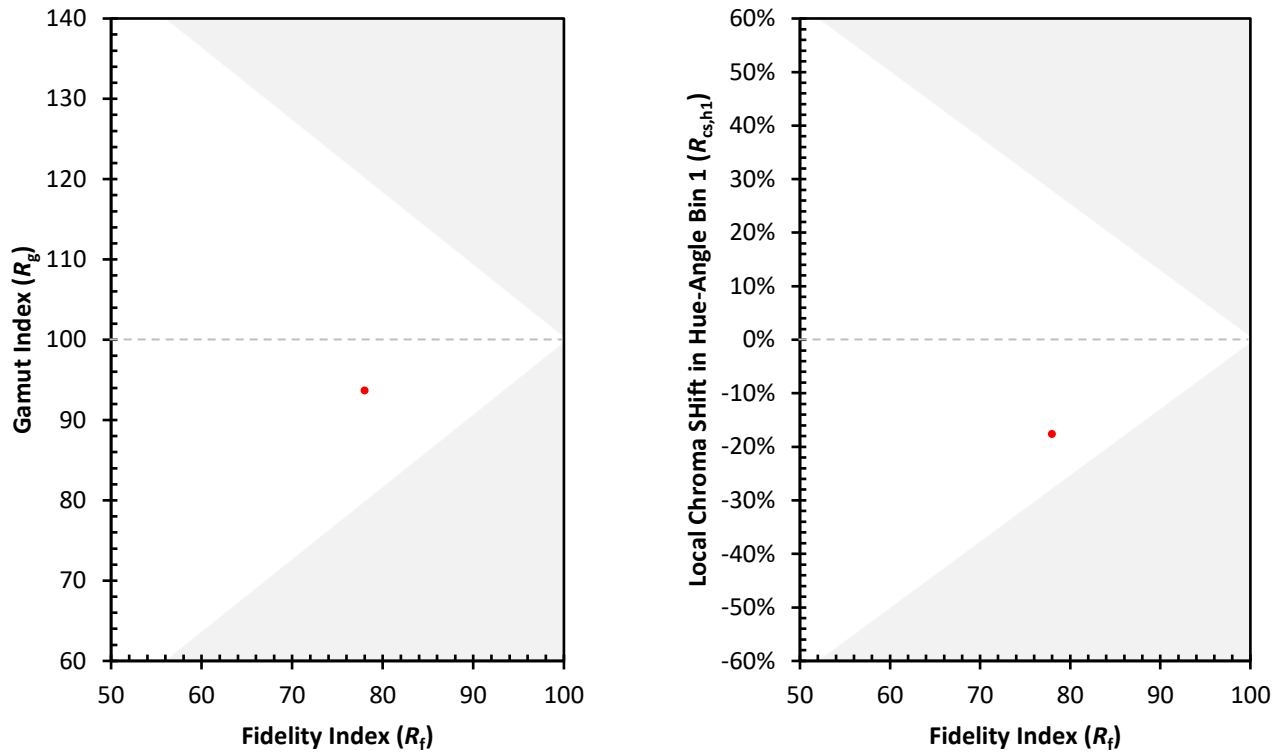
CES01 = 85	CES26 = 69	CES51 = 92	CES76 = 60
CES02 = 59	CES27 = 91	CES52 = 92	CES77 = 73
CES03 = 30	CES28 = 85	CES53 = 84	CES78 = 61
CES04 = 68	CES29 = 73	CES54 = 86	CES79 = 84
CES05 = 45	CES30 = 87	CES55 = 86	CES80 = 82
CES06 = 50	CES31 = 76	CES56 = 78	CES81 = 81
CES07 = 38	CES32 = 69	CES57 = 78	CES82 = 92
CES08 = 37	CES33 = 83	CES58 = 79	CES83 = 92
CES09 = 29	CES34 = 76	CES59 = 88	CES84 = 87
CES10 = 72	CES35 = 87	CES60 = 91	CES85 = 81
CES11 = 55	CES36 = 91	CES61 = 85	CES86 = 76
CES12 = 61	CES37 = 83	CES62 = 88	CES87 = 80
CES13 = 41	CES38 = 96	CES63 = 82	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 72	CES89 = 76
CES15 = 70	CES40 = 92	CES65 = 68	CES90 = 81
CES16 = 45	CES41 = 96	CES66 = 68	CES91 = 76
CES17 = 48	CES42 = 85	CES67 = 65	CES92 = 61
CES18 = 55	CES43 = 83	CES68 = 71	CES93 = 77
CES19 = 70	CES44 = 99	CES69 = 78	CES94 = 56
CES20 = 63	CES45 = 89	CES70 = 64	CES95 = 67
CES21 = 85	CES46 = 88	CES71 = 59	CES96 = 78
CES22 = 77	CES47 = 91	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 82	CES73 = 56	CES98 = 78
CES24 = 90	CES49 = 87	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 92	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)