

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: P980854

Luminaire Tested: **UFLD-L-CA4-250-760-U-66**

Issue Date: 04/10/2025



Test Information

Test Method: LM-79-08
Report Number: P980854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-L-CA4-250-760-U-66
Description: UTILITY FLOOD LARGE SIZE 250W 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: 41915.1 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.67' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 253
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.50%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

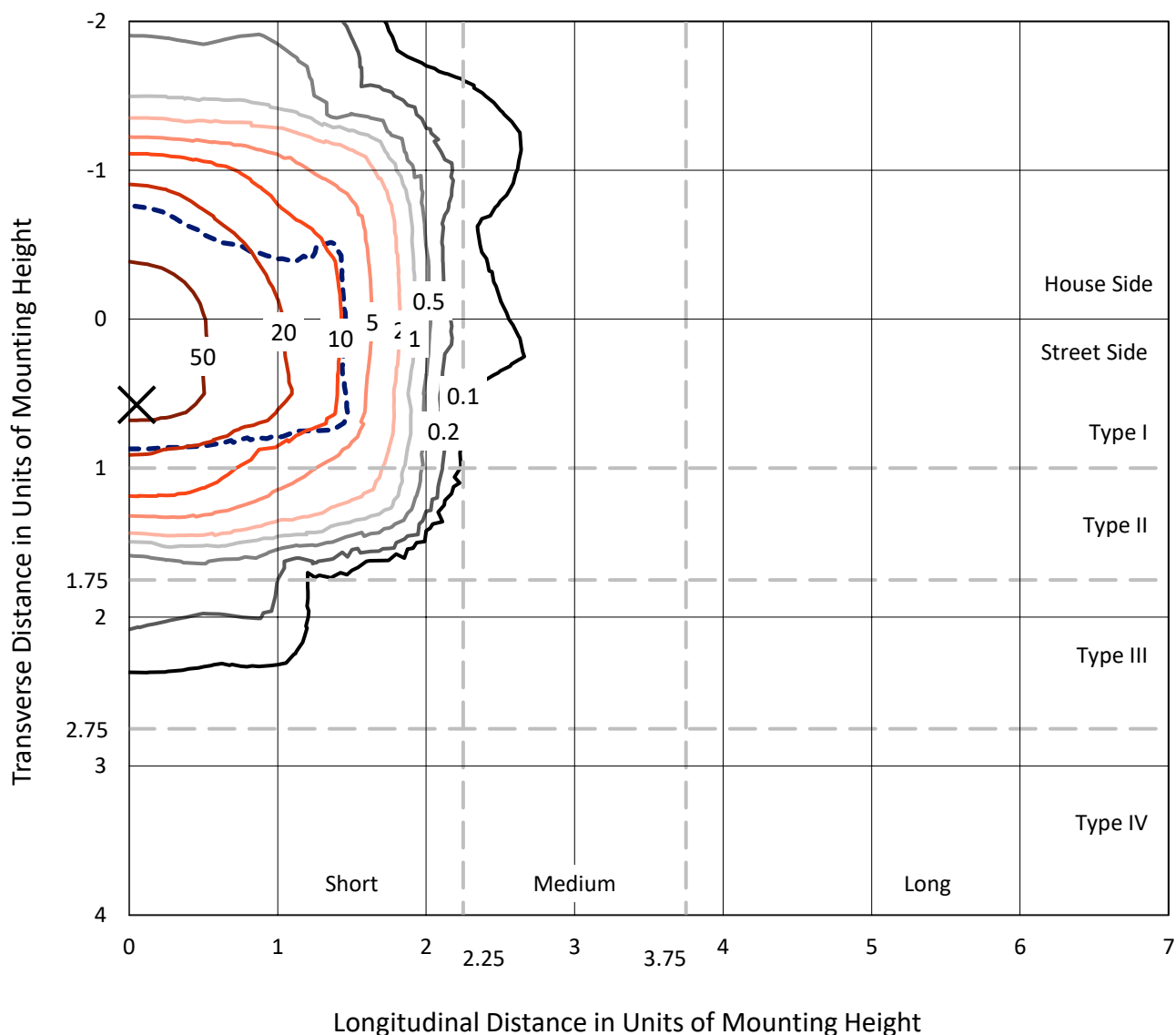
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

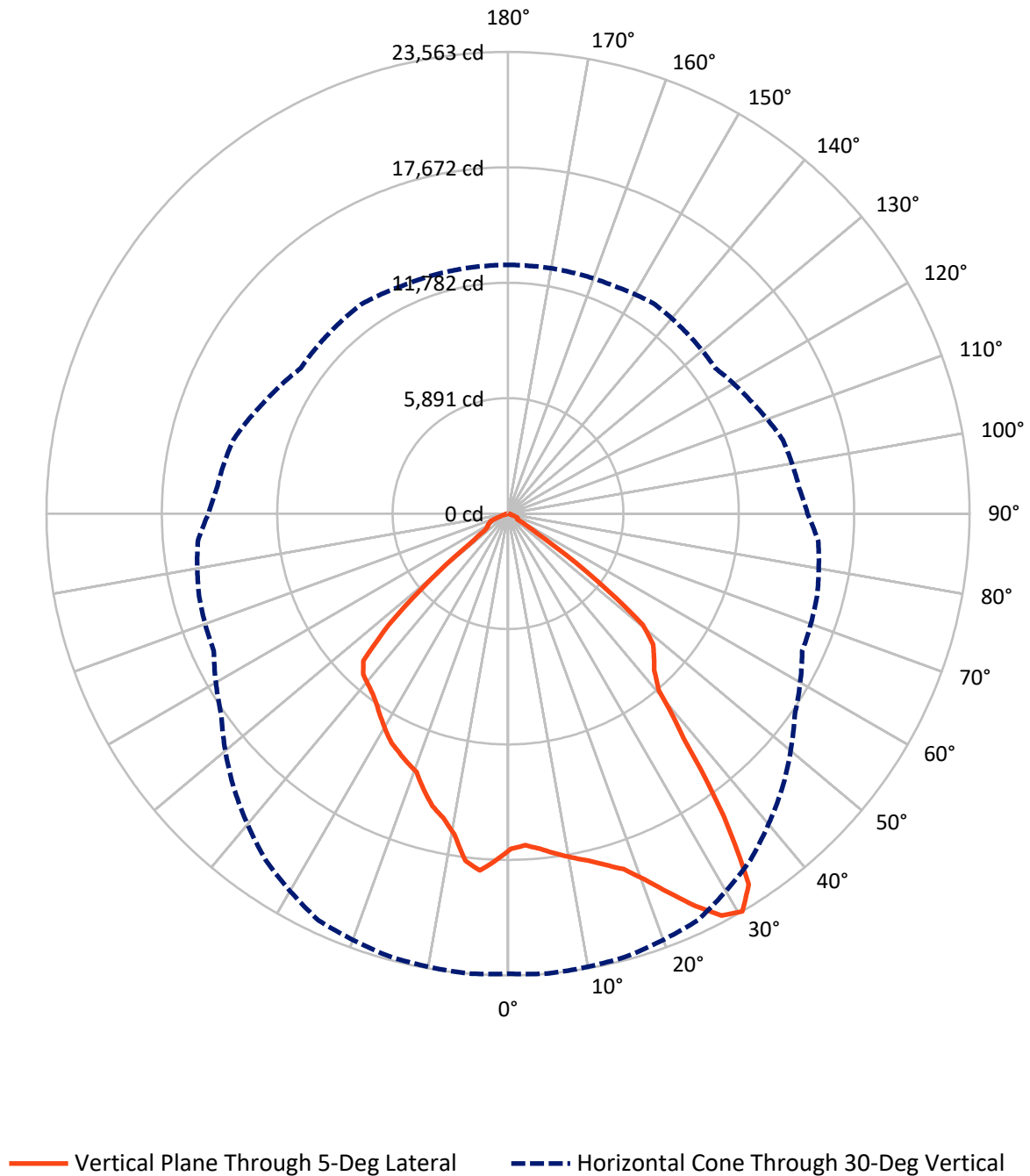


Based on 15 foot mounting height. Maximum calculated value = 77.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18538.6	0.0	18538.6
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	23376.5	0.0	23376.5
	% Fixture	55.8	0.0	55.8
Total	Lumens	41915.1	0.0	41915.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1673.6	4.0
10°-20°	4848.1	11.6
20°-30°	7725.9	18.4
30°-40°	9658.6	23.0
40°-50°	9478.4	22.6
50°-60°	6776.5	16.2
60°-70°	1499.3	3.6
70°-80°	230.3	0.5
80°-90°	24.4	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°	41915.1	100.0
0°-180°	41915.1	100.0

Coefficient of Utilization



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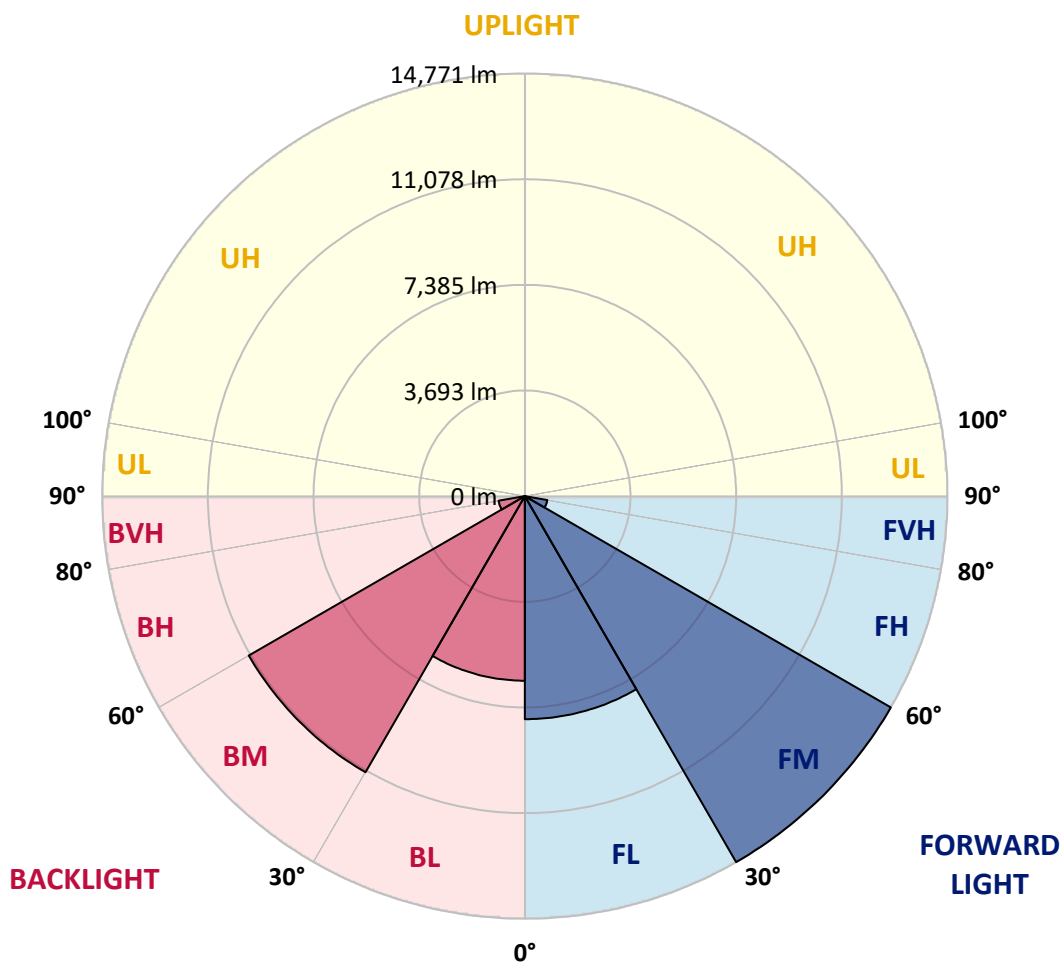
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7795.8	18.6			
FM	(30°-60°)	14770.9	35.2			
FH	(60°-80°)	797.5	1.9			G1/1800
FVH	(80°-90°)	12.3	0.0			G1/100
BL	(0°-30°)	6451.8	15.4	B5		
BM	(30°-60°)	11142.6	26.6	B5		
BH	(60°-80°)	932.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3
2.5°	16916.8	16944.2	16971.5	17012.6	17067.3	17094.6	17067.3	17039.9	17026.2	17053.6	17067.3
5°	17149.3	17190.3	17204.0	17231.4	17258.7	17231.4	17217.7	17190.3	17176.7	17190.3	17231.4
7.5°	17491.2	17518.6	17504.9	17491.2	17477.5	17381.8	17286.1	17245.0	17245.0	17286.1	17395.5
10°	17792.1	17846.8	17778.4	17723.7	17628.0	17477.5	17313.4	17217.7	17245.0	17327.1	17463.9
12.5°	18175.0	18175.0	18106.6	18051.9	17833.1	17655.3	17436.5	17286.1	17286.1	17436.5	17586.9
15°	18640.0	18598.9	18571.6	18421.2	18161.3	17874.1	17600.6	17381.8	17340.8	17573.3	17669.0
17.5°	19228.0	19077.6	19009.2	18749.4	18393.8	18024.6	17655.3	17477.5	17354.5	17600.6	17491.2
20°	20034.9	19925.5	19706.7	19296.4	18571.6	18092.9	17655.3	17422.8	17327.1	17463.9	17354.5
22.5°	21074.2	21005.9	20513.5	19993.9	19036.6	18147.6	17586.9	17272.4	17245.0	17176.7	16944.2
25°	22346.1	22168.3	21662.3	20923.8	19734.0	18681.0	17573.3	16998.9	16903.2	16725.4	16315.1
27.5°	23426.5	23235.0	22619.6	21963.2	20691.3	19474.2	17682.7	16670.7	16561.3	16438.2	15932.2
30°	23481.2	23563.2	23399.1	22906.8	21580.2	19802.4	17874.1	16574.9	16328.8	15891.2	15289.4
32.5°	22373.4	22564.9	22961.5	23139.3	22250.4	20199.0	18038.2	16616.0	16164.7	15111.6	14619.3
35°	18585.3	18968.2	20595.6	22127.3	22441.8	20773.4	18175.0	16616.0	16110.0	14550.9	14168.0
37.5°	14277.4	14592.0	15973.2	18749.4	21593.9	21128.9	18475.9	16520.2	16041.6	14592.0	14072.3
40°	11665.4	11843.2	12444.9	14332.1	18612.6	20540.9	18776.7	16629.6	15836.5	14619.3	14127.0
42.5°	10954.2	10940.6	10817.5	11514.9	14195.4	18817.8	18981.9	16903.2	15494.6	14441.5	14031.3
45°	10475.6	10448.2	10338.8	10475.6	11227.7	15398.8	18831.4	17395.5	15070.6	13812.5	13538.9
47.5°	9955.9	9969.6	9928.6	9983.3	9846.5	11692.7	17983.5	17600.6	14345.8	12759.4	12663.7
50°	8711.4	8916.6	9463.6	9518.3	9162.7	9436.2	15398.8	17504.9	13826.1	12458.6	12376.5
52.5°	5415.6	5743.8	7357.5	8725.1	8520.0	8520.0	11747.4	17641.6	12896.2	12349.2	12403.9
55°	1914.6	2160.8	3938.6	6003.6	7631.0	7781.5	9285.8	15699.7	12786.8	12540.6	12595.3
57.5°	478.6	588.1	1203.5	2598.4	5142.1	7056.7	8301.1	12964.6	9709.7	9367.8	9504.6
60°	560.7	547.0	752.2	834.2	1996.7	5579.7	7480.6	8752.4	6263.5	5866.9	5935.3
62.5°	601.7	560.7	588.1	738.5	328.2	2735.1	5962.6	5210.4	2584.7	1914.6	2024.0
65°	533.4	506.0	465.0	683.8	232.5	506.0	3514.7	1531.7	369.2	588.1	533.4
67.5°	355.6	369.2	382.9	547.0	218.8	218.8	465.0	382.9	259.8	533.4	465.0
70°	205.1	218.8	259.8	328.2	218.8	177.8	205.1	314.5	218.8	533.4	465.0
72.5°	123.1	123.1	123.1	136.8	218.8	150.4	136.8	259.8	191.5	492.3	465.0
75°	95.7	95.7	95.7	82.1	191.5	95.7	95.7	205.1	164.1	355.6	355.6
77.5°	82.1	82.1	82.1	68.4	109.4	82.1	82.1	150.4	150.4	177.8	205.1
80°	54.7	54.7	54.7	54.7	68.4	68.4	54.7	82.1	68.4	82.1	95.7
82.5°	27.4	41.0	41.0	27.4	41.0	41.0	41.0	54.7	41.0	54.7	54.7
85°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	27.4	13.7	13.7	27.4
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3	17108.3
2.5°	17094.6	17163.0	17258.7	17409.2	17463.9	17559.6	17641.6	17710.0	17710.0	17682.7
5°	17313.4	17504.9	17764.7	17997.2	18079.3	18175.0	18216.0	18284.4	18270.7	18257.1
7.5°	17504.9	17805.8	18079.3	18243.4	18216.0	18092.9	18010.9	17901.5	17860.5	17887.8
10°	17655.3	17928.8	18051.9	17942.5	17614.3	17327.1	16957.9	16711.7	16588.6	16629.6
12.5°	17710.0	17805.8	17696.3	17094.6	16684.3	16410.8	16110.0	15945.9	15877.5	15891.2
15°	17723.7	17504.9	16903.2	16451.9	16151.0	15809.1	15562.9	15412.5	15412.5	15426.2
17.5°	17436.5	16903.2	16383.5	16041.6	15617.6	15262.1	15125.3	15070.6	14728.7	14783.4
20°	17176.7	16410.8	16123.6	15590.3	15084.3	14851.8	14058.6	13976.6	13990.2	14003.9
22.5°	16629.6	16055.3	15795.4	15098.0	14523.6	13880.8	13771.4	13689.4	13703.0	13703.0
25°	15877.5	15549.3	15193.7	14468.9	13771.4	13648.3	13566.3	13456.9	13402.2	13415.9
27.5°	15453.5	15043.3	14386.8	13771.4	13320.1	13374.8	13279.1	13115.0	13115.0	13128.7
30°	14920.2	14523.6	13648.3	12923.5	12964.6	13046.6	12814.1	12732.1	12691.0	12691.0
32.5°	14263.7	13716.7	12950.9	12267.1	12513.3	12485.9	12198.7	12226.1	12253.4	12226.1
35°	13771.4	13060.3	12417.5	12048.3	11952.6	11843.2	11692.7	11788.4	11829.5	11802.1
37.5°	13648.3	12800.4	12130.3	11870.5	11501.3	11296.1	11337.1	11432.9	11487.6	11473.9
40°	13607.3	12540.6	11884.2	11610.7	11118.3	10940.6	10995.3	11186.7	11255.1	11241.4
42.5°	13552.6	12362.8	11733.7	11405.5	10721.7	10598.7	10858.5	11036.3	11050.0	11036.3
45°	13265.4	12171.4	11638.0	10981.6	10120.0	10270.4	10598.7	10694.4	10530.3	10461.9
47.5°	12595.3	11815.8	11350.8	10461.9	9627.7	9914.9	9955.9	8916.6	8314.8	8178.1
50°	12403.9	11829.5	11022.6	9846.5	9326.8	9614.0	7822.5	5976.3	5224.1	5073.7
52.5°	12349.2	11692.7	11145.7	9203.7	9217.4	8109.7	4936.9	2926.6	2352.2	2242.8
55°	12485.9	12294.4	11350.8	8820.8	8574.7	5278.8	2297.5	1381.2	1422.3	1381.2
57.5°	9422.6	10284.1	11597.0	8219.1	6263.5	2543.7	1449.6	1340.2	1244.5	1217.1
60°	5880.5	6701.1	8492.6	7070.3	3213.8	1518.0	1477.0	1244.5	1203.5	1189.8
62.5°	1941.9	2981.3	4868.5	4649.7	888.9	1504.3	1490.7	1107.7	1107.7	1107.7
65°	492.3	506.0	1340.2	1600.1	656.4	1340.2	1422.3	1039.4	1012.0	1053.0
67.5°	423.9	382.9	711.1	629.1	547.0	929.9	1244.5	998.3	943.6	943.6
70°	423.9	451.3	697.5	588.1	341.9	506.0	902.6	615.4	547.0	506.0
72.5°	396.6	437.6	615.4	533.4	232.5	246.2	396.6	205.1	191.5	164.1
75°	341.9	355.6	478.6	478.6	246.2	123.1	164.1	136.8	136.8	123.1
77.5°	232.5	177.8	273.5	341.9	177.8	82.1	68.4	68.4	68.4	54.7
80°	123.1	68.4	68.4	54.7	68.4	68.4	41.0	54.7	54.7	41.0
82.5°	68.4	41.0	41.0	27.4	27.4	41.0	27.4	27.4	27.4	27.4
85°	27.4	27.4	13.7	13.7	13.7	27.4	13.7	13.7	13.7	13.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	13.7
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: SP1-2501-319-13

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7040-66

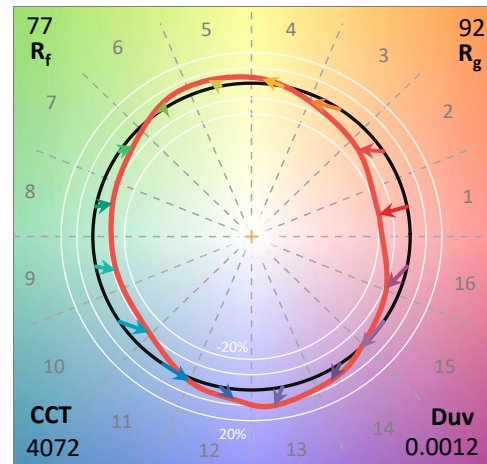
Data in this report applies to families of products including NFFLD-C55-7040-66

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-319-13
 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-C55-7040-66**
 Description: LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K):	4072	CRI (Ra):	73.2		
CIE u':	0.2232	R1:	68.7	R9:	-38.7
CIE v':	0.5017	R2:	82.1	R10:	58.6
Duv:	0.0012	R3:	92.3	R11:	65.6
CIE x:	0.3781	R4:	69.9	R12:	52.4
CIE y:	0.3777	R5:	69.8	R13:	71.5
CIE z:	0.2442	R6:	75.1	R14:	95.9
Peak Wavelength (nm):	582	R7:	79.8	R15:	60.5
Dominant Wavelength (nm):	578	R8:	47.9		
Purity:	26.82001				
Rf:	76.8				
Rg:	91.7				



Test Conditions

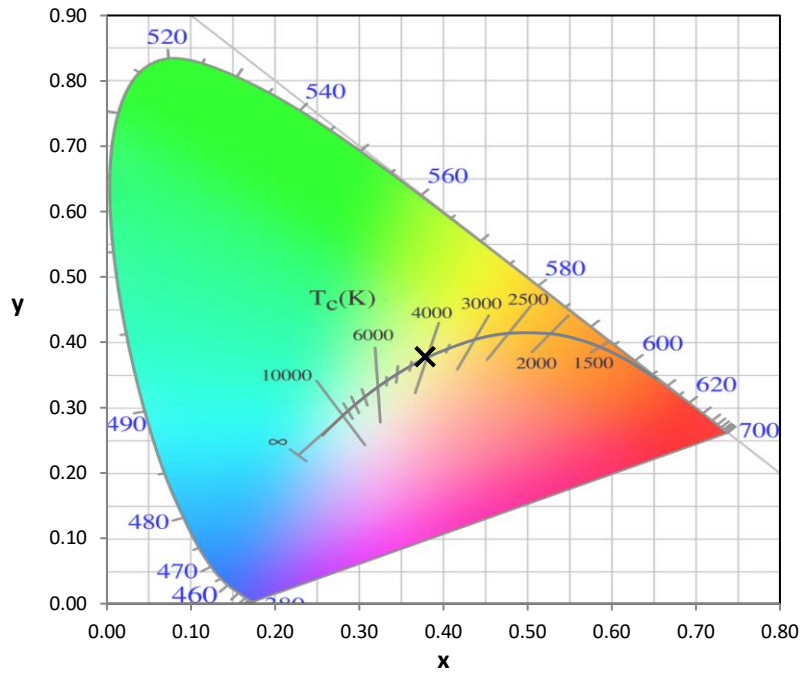
Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 25.0

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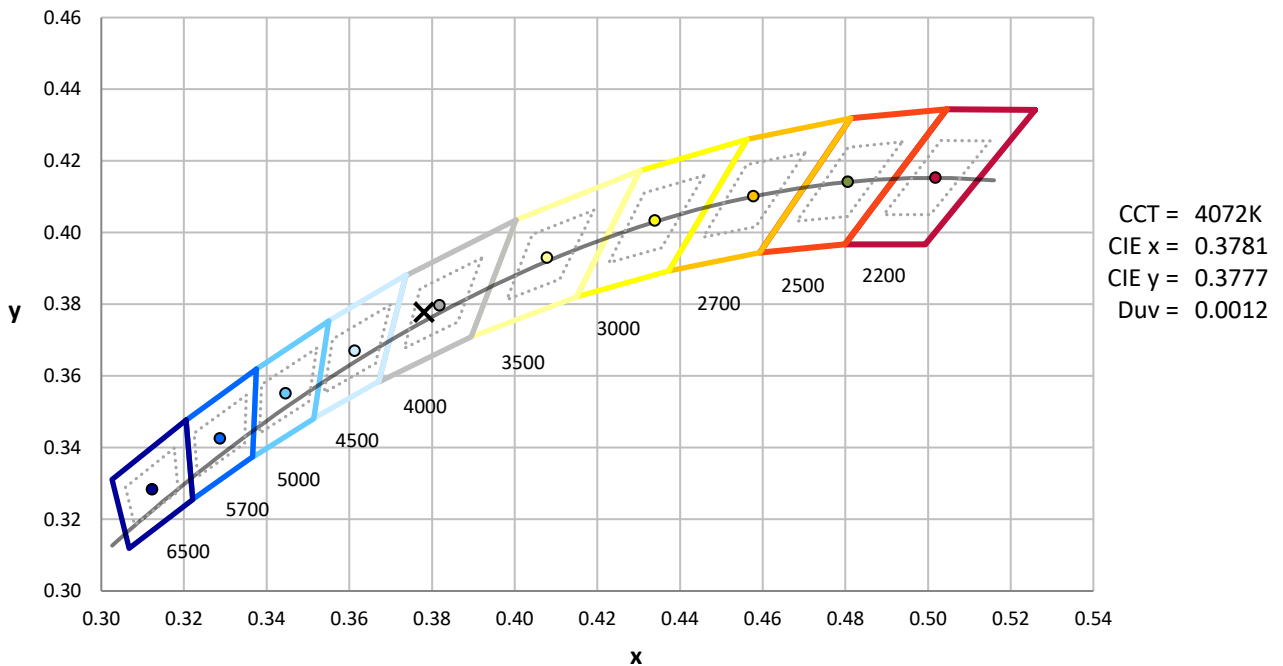
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



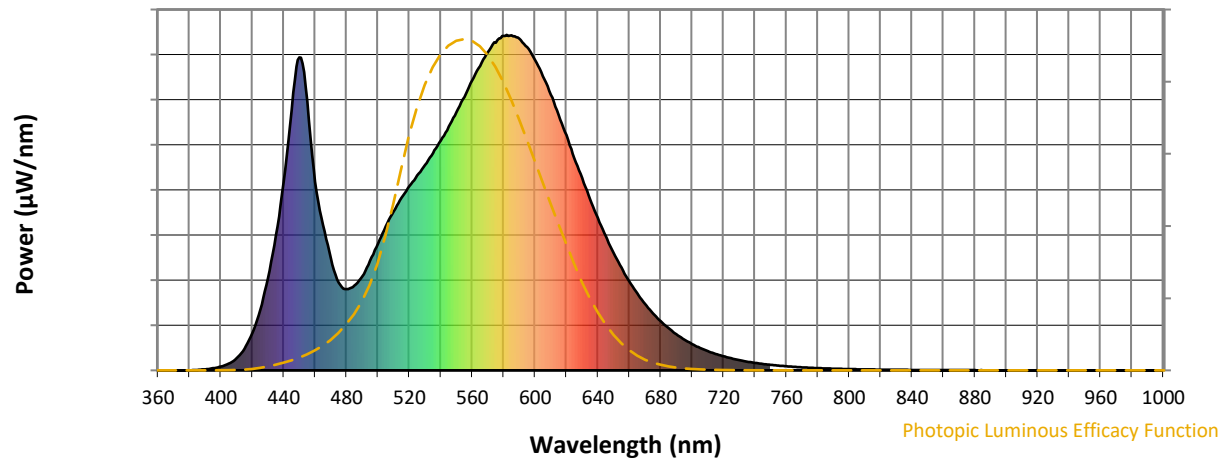
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

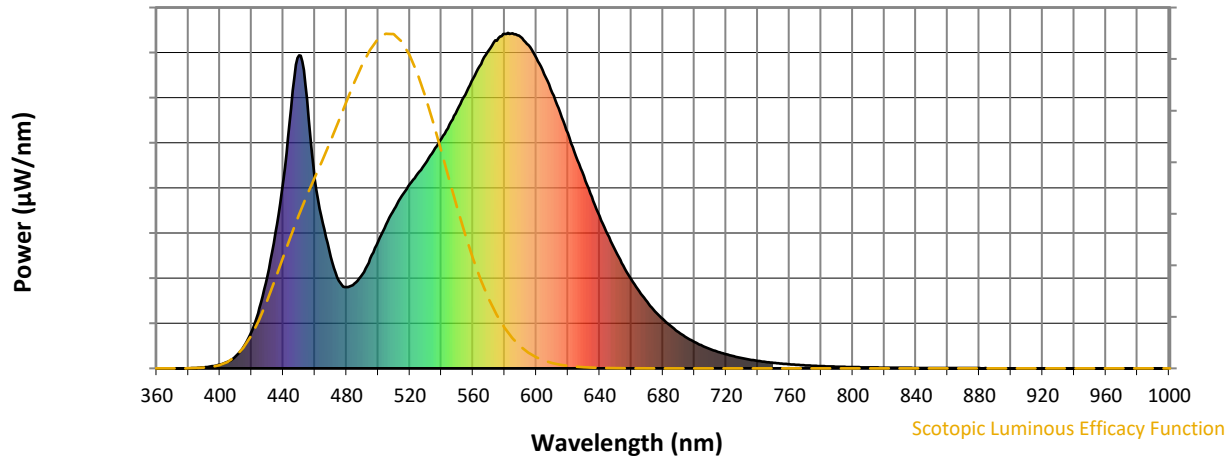


Photopic Lumens: NR

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	280	NR	620	701	NR	750	16	NR	880	1	NR
365	0	NR	495	327	NR	625	633	NR	755	14	NR	885	0	NR
370	0	NR	500	378	NR	630	573	NR	760	12	NR	890	0	NR
375	0	NR	505	429	NR	635	511	NR	765	10	NR	895	0	NR
380	0	NR	510	474	NR	640	454	NR	770	9	NR	900	0	NR
385	1	NR	515	514	NR	645	400	NR	775	8	NR	905	0	NR
390	3	NR	520	549	NR	650	350	NR	780	7	NR	910	0	NR
395	6	NR	525	581	NR	655	306	NR	785	6	NR	915	0	NR
400	11	NR	530	613	NR	660	265	NR	790	5	NR	920	0	NR
405	20	NR	535	647	NR	665	230	NR	795	4	NR	925	0	NR
410	37	NR	540	685	NR	670	198	NR	800	4	NR	930	0	NR
415	65	NR	545	727	NR	675	170	NR	805	3	NR	935	0	NR
420	111	NR	550	770	NR	680	147	NR	810	3	NR	940	0	NR
425	180	NR	555	815	NR	685	126	NR	815	3	NR	945	0	NR
430	275	NR	560	864	NR	690	107	NR	820	2	NR	950	0	NR
435	403	NR	565	907	NR	695	92	NR	825	2	NR	955	0	NR
440	562	NR	570	948	NR	700	78	NR	830	2	NR	960	0	NR
445	775	NR	575	977	NR	705	67	NR	835	2	NR	965	0	NR
450	933	NR	580	997	NR	710	57	NR	840	1	NR	970	0	NR
455	801	NR	585	999	NR	715	49	NR	845	1	NR	975	0	NR
460	562	NR	590	988	NR	720	42	NR	850	1	NR	980	0	NR
465	433	NR	595	963	NR	725	36	NR	855	1	NR	985	0	NR
470	332	NR	600	925	NR	730	31	NR	860	1	NR	990	0	NR
475	261	NR	605	877	NR	735	26	NR	865	1	NR	995	0	NR
480	243	NR	610	822	NR	740	22	NR	870	1	NR	1000	0	NR
485	253	NR	615	762	NR	745	19	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



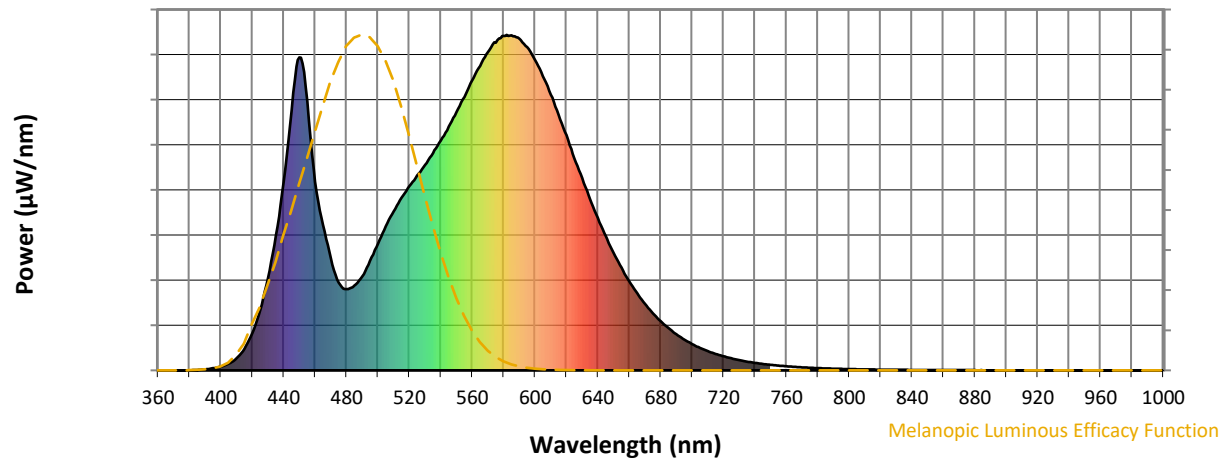
Scotopic Lumens: NR

S/P: 1.6

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	280	NR	620	701	NR	750	16	NR	880	1	NR
365	0	NR	495	327	NR	625	633	NR	755	14	NR	885	0	NR
370	0	NR	500	378	NR	630	573	NR	760	12	NR	890	0	NR
375	0	NR	505	429	NR	635	511	NR	765	10	NR	895	0	NR
380	0	NR	510	474	NR	640	454	NR	770	9	NR	900	0	NR
385	1	NR	515	514	NR	645	400	NR	775	8	NR	905	0	NR
390	3	NR	520	549	NR	650	350	NR	780	7	NR	910	0	NR
395	6	NR	525	581	NR	655	306	NR	785	6	NR	915	0	NR
400	11	NR	530	613	NR	660	265	NR	790	5	NR	920	0	NR
405	20	NR	535	647	NR	665	230	NR	795	4	NR	925	0	NR
410	37	NR	540	685	NR	670	198	NR	800	4	NR	930	0	NR
415	65	NR	545	727	NR	675	170	NR	805	3	NR	935	0	NR
420	111	NR	550	770	NR	680	147	NR	810	3	NR	940	0	NR
425	180	NR	555	815	NR	685	126	NR	815	3	NR	945	0	NR
430	275	NR	560	864	NR	690	107	NR	820	2	NR	950	0	NR
435	403	NR	565	907	NR	695	92	NR	825	2	NR	955	0	NR
440	562	NR	570	948	NR	700	78	NR	830	2	NR	960	0	NR
445	775	NR	575	977	NR	705	67	NR	835	2	NR	965	0	NR
450	933	NR	580	997	NR	710	57	NR	840	1	NR	970	0	NR
455	801	NR	585	999	NR	715	49	NR	845	1	NR	975	0	NR
460	562	NR	590	988	NR	720	42	NR	850	1	NR	980	0	NR
465	433	NR	595	963	NR	725	36	NR	855	1	NR	985	0	NR
470	332	NR	600	925	NR	730	31	NR	860	1	NR	990	0	NR
475	261	NR	605	877	NR	735	26	NR	865	1	NR	995	0	NR
480	243	NR	610	822	NR	740	22	NR	870	1	NR	1000	0	NR
485	253	NR	615	762	NR	745	19	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.24

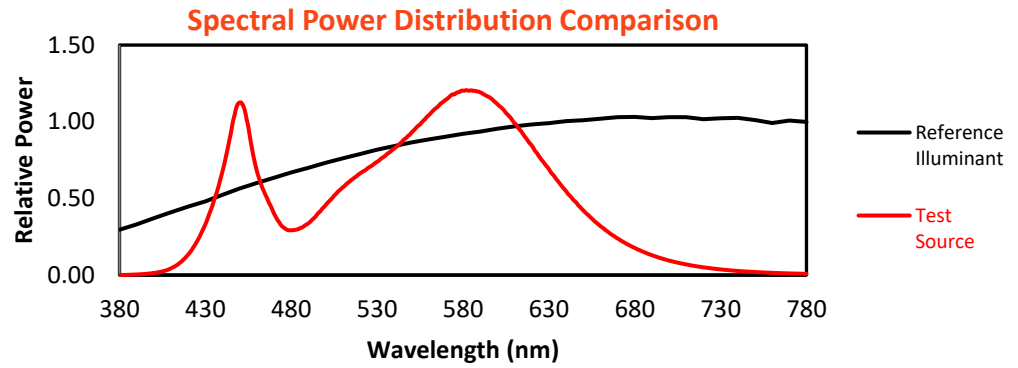
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	280	NR	620	701	NR	750	16	NR	880	1	NR
365	0	NR	495	327	NR	625	633	NR	755	14	NR	885	0	NR
370	0	NR	500	378	NR	630	573	NR	760	12	NR	890	0	NR
375	0	NR	505	429	NR	635	511	NR	765	10	NR	895	0	NR
380	0	NR	510	474	NR	640	454	NR	770	9	NR	900	0	NR
385	1	NR	515	514	NR	645	400	NR	775	8	NR	905	0	NR
390	3	NR	520	549	NR	650	350	NR	780	7	NR	910	0	NR
395	6	NR	525	581	NR	655	306	NR	785	6	NR	915	0	NR
400	11	NR	530	613	NR	660	265	NR	790	5	NR	920	0	NR
405	20	NR	535	647	NR	665	230	NR	795	4	NR	925	0	NR
410	37	NR	540	685	NR	670	198	NR	800	4	NR	930	0	NR
415	65	NR	545	727	NR	675	170	NR	805	3	NR	935	0	NR
420	111	NR	550	770	NR	680	147	NR	810	3	NR	940	0	NR
425	180	NR	555	815	NR	685	126	NR	815	3	NR	945	0	NR
430	275	NR	560	864	NR	690	107	NR	820	2	NR	950	0	NR
435	403	NR	565	907	NR	695	92	NR	825	2	NR	955	0	NR
440	562	NR	570	948	NR	700	78	NR	830	2	NR	960	0	NR
445	775	NR	575	977	NR	705	67	NR	835	2	NR	965	0	NR
450	933	NR	580	997	NR	710	57	NR	840	1	NR	970	0	NR
455	801	NR	585	999	NR	715	49	NR	845	1	NR	975	0	NR
460	562	NR	590	988	NR	720	42	NR	850	1	NR	980	0	NR
465	433	NR	595	963	NR	725	36	NR	855	1	NR	985	0	NR
470	332	NR	600	925	NR	730	31	NR	860	1	NR	990	0	NR
475	261	NR	605	877	NR	735	26	NR	865	1	NR	995	0	NR
480	243	NR	610	822	NR	740	22	NR	870	1	NR	1000	0	NR
485	253	NR	615	762	NR	745	19	NR	875	1	NR			

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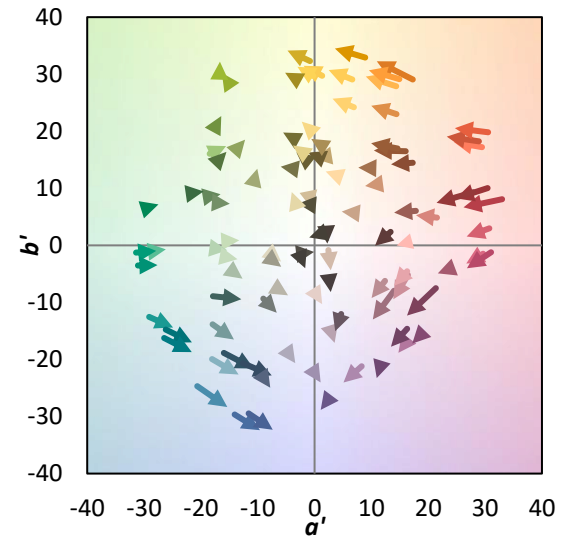
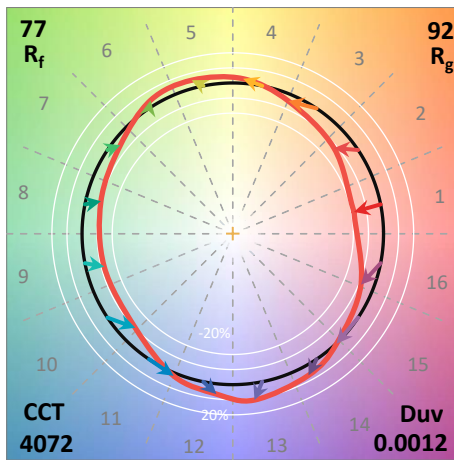
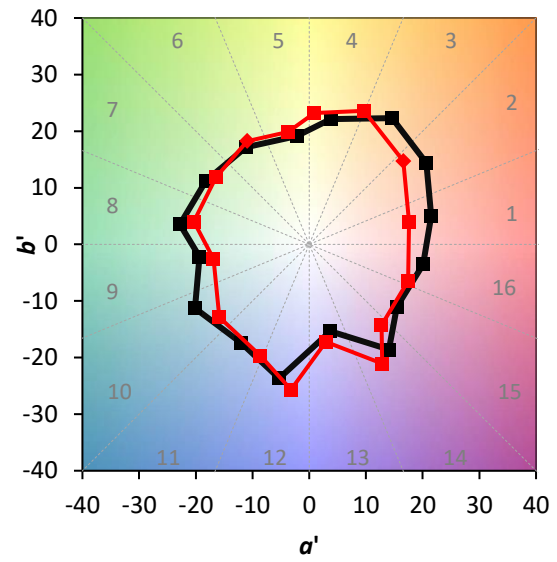
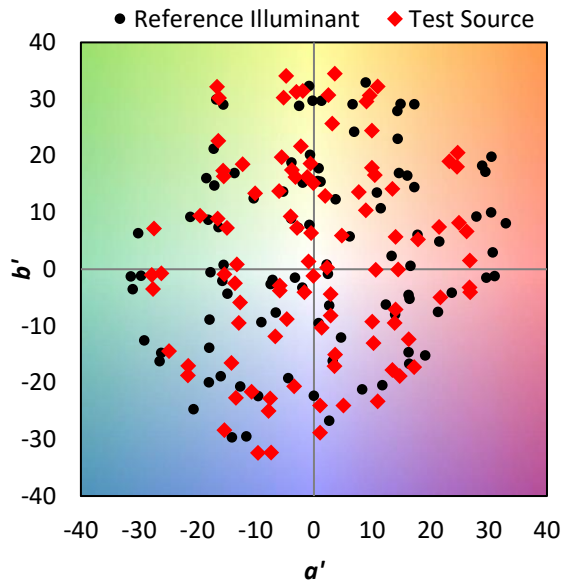
TM-30-18

Summary

$R_f = 76.8$
 $R_g = 91.7$
 $CIE R_a = 73.2$
 $R_g = -38.7$

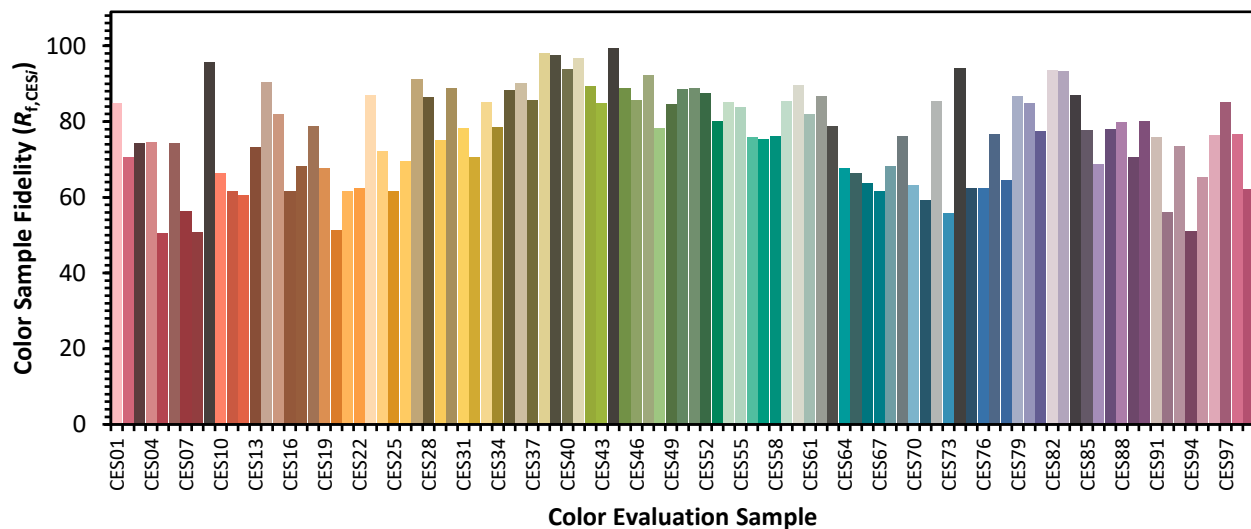


Color Vector Graphics

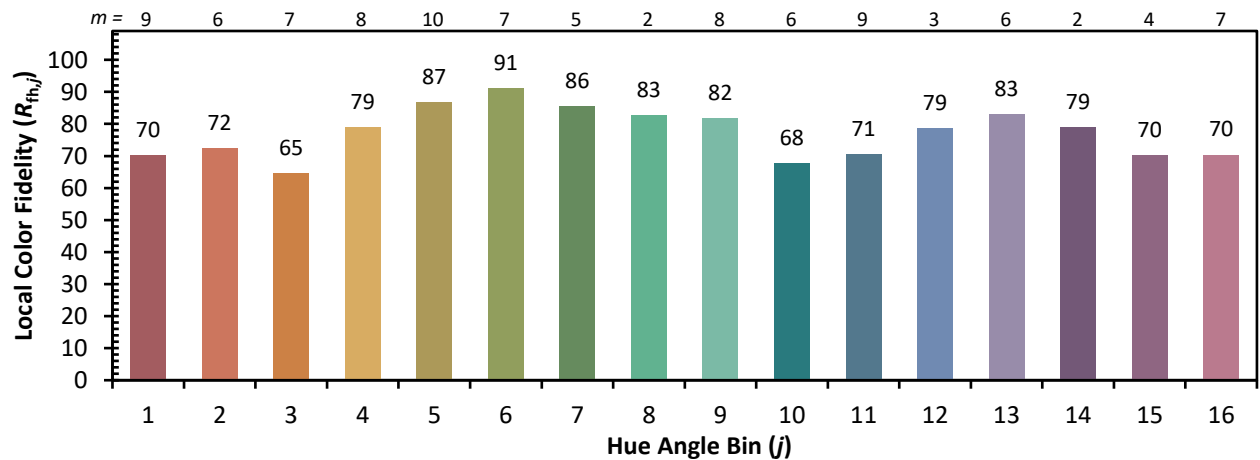
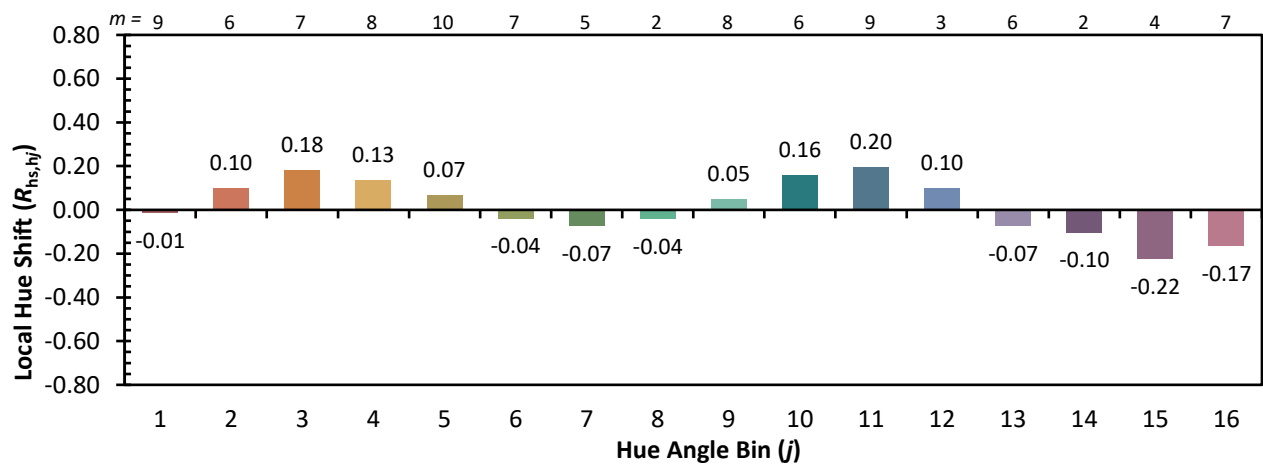
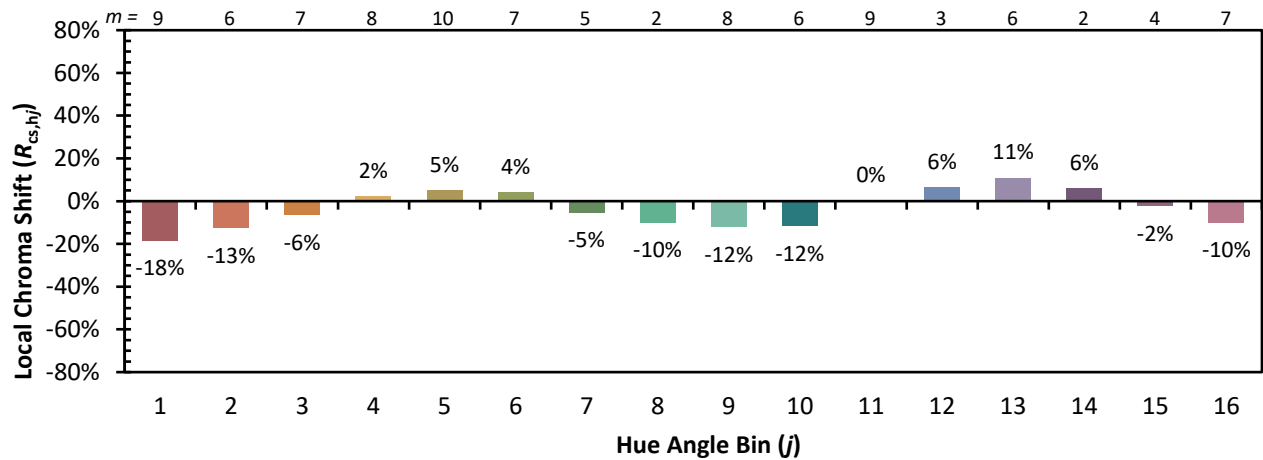


Individual Sample Fidelity Index ($R_{f,i}$)

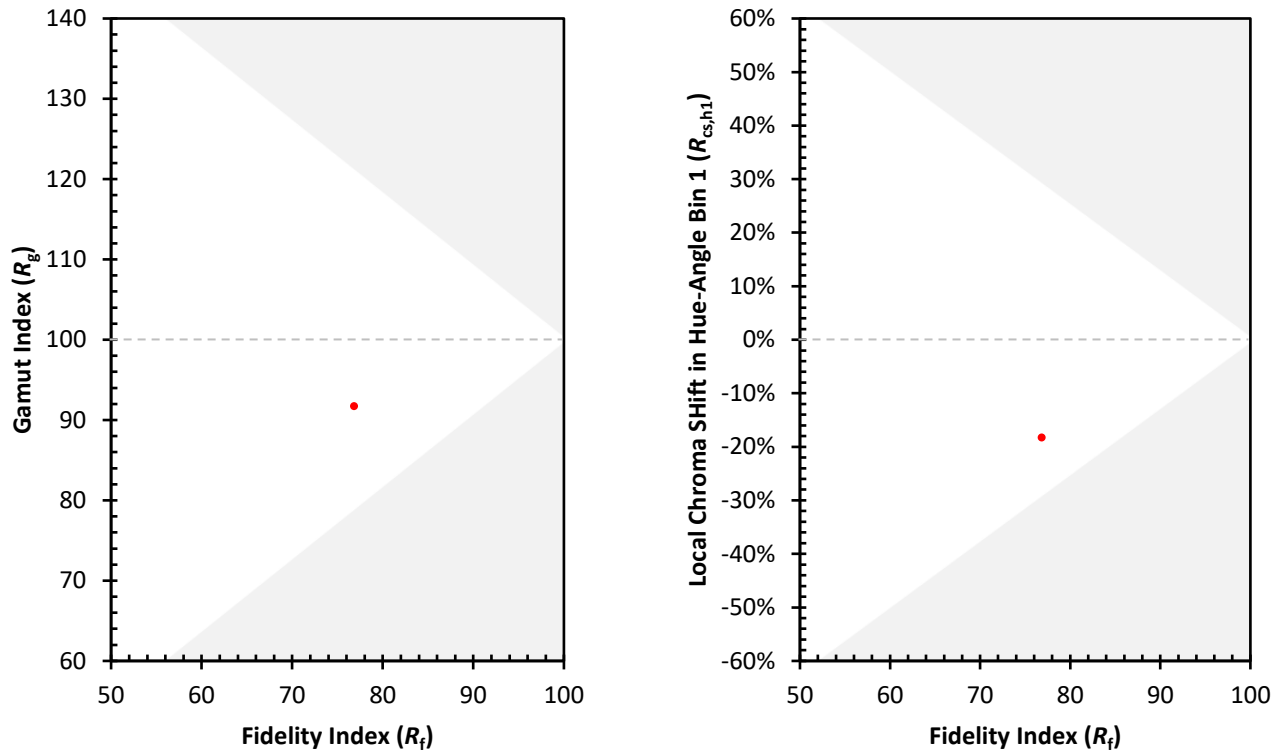
CES01 = 85	CES26 = 70	CES51 = 89	CES76 = 62
CES02 = 61	CES27 = 91	CES52 = 87	CES77 = 77
CES03 = 30	CES28 = 87	CES53 = 80	CES78 = 65
CES04 = 70	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 47	CES30 = 89	CES55 = 84	CES80 = 85
CES06 = 50	CES31 = 78	CES56 = 76	CES81 = 77
CES07 = 39	CES32 = 70	CES57 = 75	CES82 = 94
CES08 = 38	CES33 = 85	CES58 = 76	CES83 = 93
CES09 = 29	CES34 = 79	CES59 = 85	CES84 = 87
CES10 = 74	CES35 = 88	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 90	CES61 = 82	CES86 = 69
CES12 = 63	CES37 = 86	CES62 = 87	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 80
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 66	CES90 = 80
CES16 = 46	CES41 = 97	CES66 = 64	CES91 = 76
CES17 = 49	CES42 = 89	CES67 = 62	CES92 = 56
CES18 = 56	CES43 = 85	CES68 = 68	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 64	CES45 = 89	CES70 = 63	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 76
CES22 = 78	CES47 = 92	CES72 = 85	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 94	CES99 = 62
CES25 = 72	CES50 = 89	CES75 = 62	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)