

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: P991007

Luminaire Tested: **UFLD-CA2-120-760-U-66**

Issue Date: 04/10/2025



Test Information

Test Method: LM-79-08
Report Number: P991007
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-CA2-120-760-U-66
Description: UTILITY FLOOD MEDIUM SIZE 120W 70CRI 5700K LED FIXTURE NEMA 6
Light Source: (2) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21052.6 lumens
Efficiency: N/A
Efficacy: 169.9 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

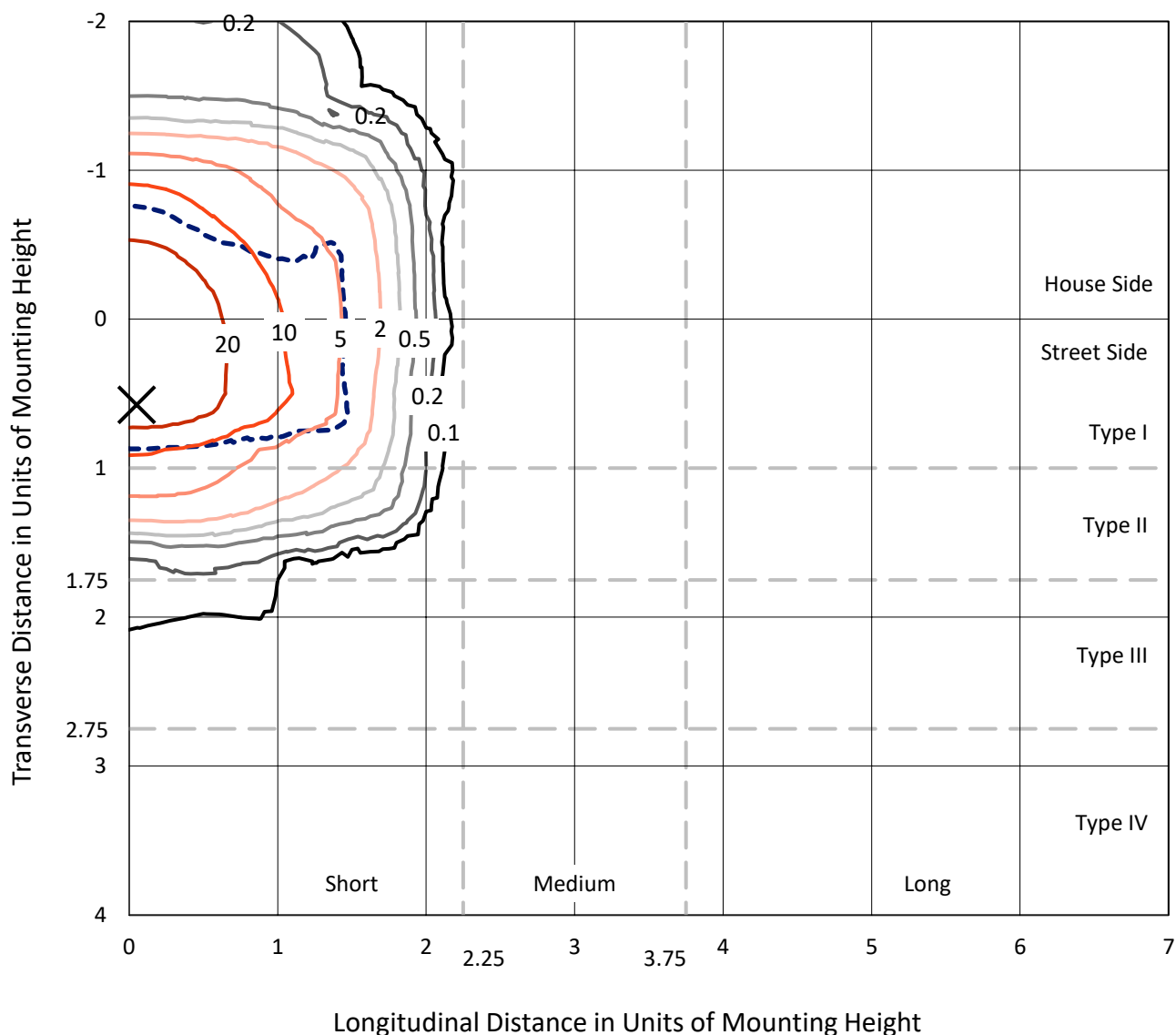
REPORT NUMBER: P991007

CATALOG NUMBER: UFLD-CA2-120-760-U-66

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

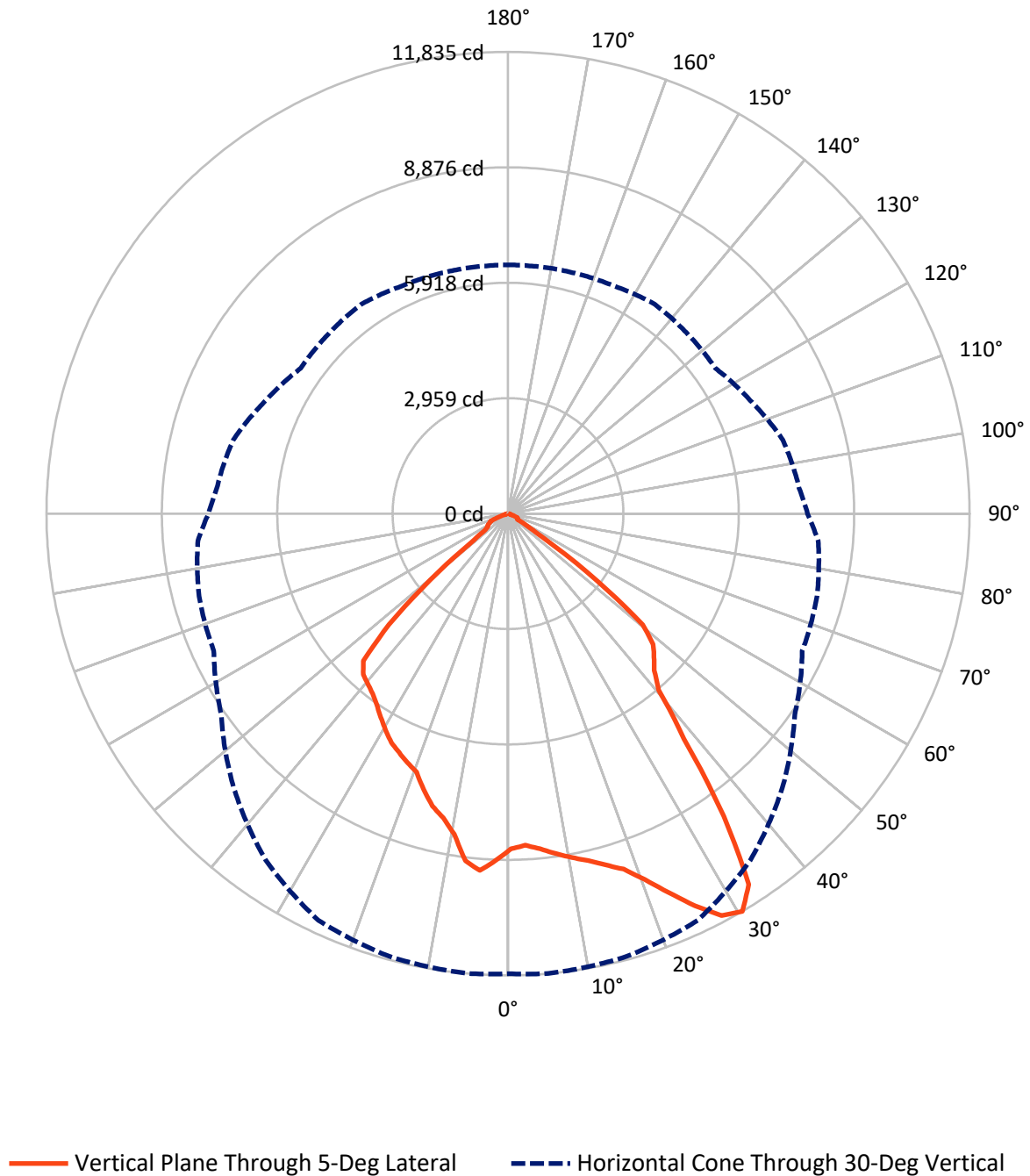


Based on 15 foot mounting height. Maximum calculated value = 39.1 fc

Type I - Short - N/A

REPORT NUMBER: P991007
CATALOG NUMBER: UFLD-CA2-120-760-U-66

Luminous Intensity Polar Plot



REPORT NUMBER: P991007

CATALOG NUMBER: UFLD-CA2-120-760-U-66

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9311.3	0.0	9311.3
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	11741.2	0.0	11741.2
	% Fixture	55.8	0.0	55.8
Total	Lumens	21052.6	0.0	21052.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.6	4.0
10°-20°	2435.1	11.6
20°-30°	3880.5	18.4
30°-40°	4851.2	23.0
40°-50°	4760.7	22.6
50°-60°	3403.6	16.2
60°-70°	753.1	3.6
70°-80°	115.7	0.5
80°-90°	12.2	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°	21052.6	100.0
0°-180°	21052.6	100.0



REPORT NUMBER: P991007

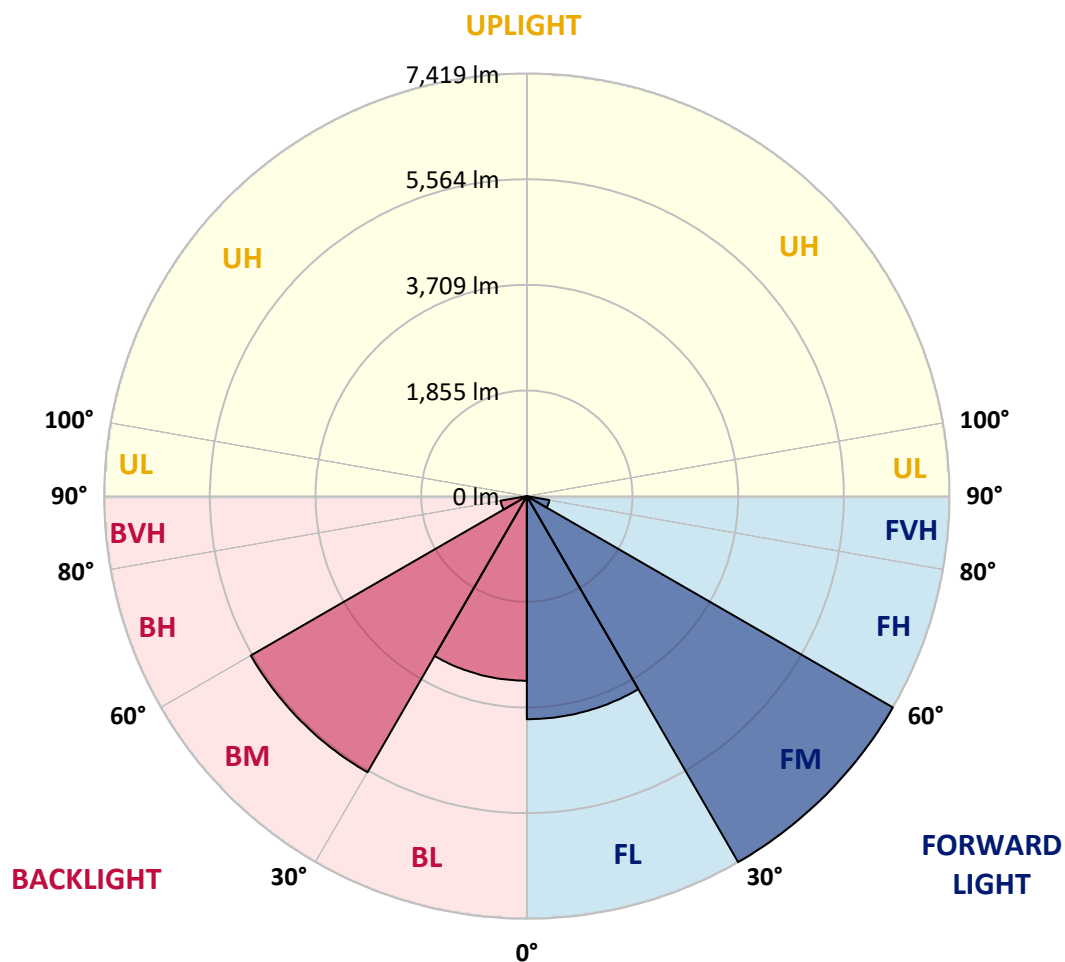
CATALOG NUMBER: UFLD-CA2-120-760-U-66

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3915.6	18.6			
FM	(30°-60°)	7418.9	35.2			
FH	(60°-80°)	400.5	1.9			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	3240.5	15.4	B4/5000		
BM	(30°-60°)	5596.6	26.6	B4/8500		
BH	(60°-80°)	468.2	2.2	B1/500		G1/500
BVH	(80°-90°)	6.1	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



REPORT NUMBER: P991007

CATALOG NUMBER: UFLD-CA2-120-760-U-66

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9
2.5°	8496.8	8510.5	8524.2	8544.8	8572.3	8586.1	8572.3	8558.6	8551.7	8565.4	8572.3
5°	8613.5	8634.1	8641.0	8654.7	8668.5	8654.7	8647.9	8634.1	8627.3	8634.1	8654.7
7.5°	8785.2	8799.0	8792.1	8785.2	8778.4	8730.3	8682.2	8661.6	8661.6	8682.2	8737.2
10°	8936.4	8963.8	8929.5	8902.0	8853.9	8778.4	8696.0	8647.9	8661.6	8702.8	8771.5
12.5°	9128.7	9128.7	9094.3	9066.9	8957.0	8867.7	8757.8	8682.2	8682.2	8757.8	8833.3
15°	9362.2	9341.6	9327.9	9252.3	9121.8	8977.6	8840.2	8730.3	8709.7	8826.5	8874.5
17.5°	9657.6	9582.0	9547.7	9417.2	9238.6	9053.1	8867.7	8778.4	8716.6	8840.2	8785.2
20°	10062.9	10007.9	9898.0	9691.9	9327.9	9087.5	8867.7	8750.9	8702.8	8771.5	8716.6
22.5°	10584.9	10550.5	10303.3	10042.2	9561.4	9115.0	8833.3	8675.3	8661.6	8627.3	8510.5
25°	11223.7	11134.4	10880.2	10509.3	9911.7	9382.8	8826.5	8538.0	8489.9	8400.6	8194.5
27.5°	11766.3	11670.2	11361.1	11031.4	10392.6	9781.2	8881.4	8373.1	8318.2	8256.3	8002.2
30°	11793.8	11835.0	11752.6	11505.3	10839.0	9946.1	8977.6	8325.0	8201.4	7981.6	7679.4
32.5°	11237.4	11333.6	11532.8	11622.1	11175.6	10145.3	9060.0	8345.6	8119.0	7590.1	7342.8
35°	9334.8	9527.1	10344.5	11113.8	11271.8	10433.8	9128.7	8345.6	8091.5	7308.4	7116.1
37.5°	7171.1	7329.1	8022.8	9417.2	10845.9	10612.4	9279.8	8297.6	8057.2	7329.1	7068.0
40°	5859.1	5948.4	6250.6	7198.5	9348.5	10317.0	9430.9	8352.5	7954.1	7342.8	7095.5
42.5°	5501.9	5495.1	5433.3	5783.6	7129.9	9451.5	9534.0	8489.9	7782.4	7253.5	7047.4
45°	5261.5	5247.8	5192.8	5261.5	5639.3	7734.3	9458.4	8737.2	7569.5	6937.5	6800.2
47.5°	5000.5	5007.4	4986.8	5014.3	4945.6	5872.9	9032.5	8840.2	7205.4	6408.6	6360.5
50°	4375.5	4478.5	4753.2	4780.7	4602.1	4739.5	7734.3	8792.1	6944.4	6257.5	6216.3
52.5°	2720.1	2884.9	3695.4	4382.3	4279.3	4279.3	5900.3	8860.8	6477.3	6202.6	6230.0
55°	961.6	1085.3	1978.2	3015.4	3832.8	3908.4	4663.9	7885.4	6422.4	6298.7	6326.2
57.5°	240.4	295.4	604.5	1305.1	2582.7	3544.3	4169.4	6511.7	4876.9	4705.2	4773.8
60°	281.6	274.8	377.8	419.0	1002.9	2802.5	3757.3	4396.1	3145.9	2946.7	2981.1
62.5°	302.2	281.6	295.4	370.9	164.9	1373.8	2994.8	2617.0	1298.2	961.6	1016.6
65°	267.9	254.1	233.5	343.4	116.8	254.1	1765.3	769.3	185.5	295.4	267.9
67.5°	178.6	185.5	192.3	274.8	109.9	109.9	233.5	192.3	130.5	267.9	233.5
70°	103.0	109.9	130.5	164.9	109.9	89.3	103.0	158.0	109.9	267.9	233.5
72.5°	61.8	61.8	61.8	68.7	109.9	75.6	68.7	130.5	96.2	247.3	233.5
75°	48.1	48.1	48.1	41.2	96.2	48.1	48.1	103.0	82.4	178.6	178.6
77.5°	41.2	41.2	41.2	34.3	55.0	41.2	41.2	75.6	75.6	89.3	103.0
80°	27.5	27.5	27.5	27.5	34.3	34.3	27.5	41.2	34.3	41.2	48.1
82.5°	13.7	20.6	20.6	13.7	20.6	20.6	20.6	27.5	20.6	27.5	27.5
85°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	13.7	6.9	6.9	13.7
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

REPORT NUMBER: P991007

CATALOG NUMBER: UFLD-CA2-120-760-U-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9	8592.9
2.5°	8586.1	8620.4	8668.5	8744.0	8771.5	8819.6	8860.8	8895.2	8895.2	8881.4
5°	8696.0	8792.1	8922.6	9039.4	9080.6	9128.7	9149.3	9183.6	9176.8	9169.9
7.5°	8792.1	8943.2	9080.6	9163.0	9149.3	9087.5	9046.3	8991.3	8970.7	8984.4
10°	8867.7	9005.1	9066.9	9011.9	8847.1	8702.8	8517.4	8393.7	8331.9	8352.5
12.5°	8895.2	8943.2	8888.3	8586.1	8380.0	8242.6	8091.5	8009.1	7974.7	7981.6
15°	8902.0	8792.1	8489.9	8263.2	8112.1	7940.4	7816.7	7741.2	7741.2	7748.1
17.5°	8757.8	8489.9	8228.9	8057.2	7844.2	7665.6	7596.9	7569.5	7397.7	7425.2
20°	8627.3	8242.6	8098.4	7830.5	7576.3	7459.6	7061.2	7020.0	7026.8	7033.7
22.5°	8352.5	8064.0	7933.5	7583.2	7294.7	6971.9	6916.9	6875.7	6882.6	6882.6
25°	7974.7	7809.9	7631.3	7267.2	6916.9	6855.1	6813.9	6758.9	6731.5	6738.3
27.5°	7761.8	7555.7	7226.0	6916.9	6690.3	6717.7	6669.6	6587.2	6587.2	6594.1
30°	7493.9	7294.7	6855.1	6491.1	6511.7	6552.9	6436.1	6394.9	6374.3	6374.3
32.5°	7164.2	6889.4	6504.8	6161.4	6285.0	6271.3	6127.0	6140.7	6154.5	6140.7
35°	6916.9	6559.7	6236.9	6051.4	6003.4	5948.4	5872.9	5920.9	5941.5	5927.8
37.5°	6855.1	6429.2	6092.7	5962.2	5776.7	5673.7	5694.3	5742.4	5769.8	5763.0
40°	6834.5	6298.7	5969.0	5831.6	5584.4	5495.1	5522.5	5618.7	5653.1	5646.2
42.5°	6807.0	6209.4	5893.5	5728.6	5385.2	5323.4	5453.9	5543.2	5550.0	5543.2
45°	6662.8	6113.3	5845.4	5515.7	5082.9	5158.5	5323.4	5371.4	5289.0	5254.7
47.5°	6326.2	5934.7	5701.1	5254.7	4835.7	4979.9	5000.5	4478.5	4176.3	4107.6
50°	6230.0	5941.5	5536.3	4945.6	4684.6	4828.8	3929.0	3001.7	2623.9	2548.3
52.5°	6202.6	5872.9	5598.1	4622.7	4629.6	4073.2	2479.7	1469.9	1181.4	1126.5
55°	6271.3	6175.1	5701.1	4430.4	4306.8	2651.4	1154.0	693.8	714.4	693.8
57.5°	4732.6	5165.4	5824.8	4128.2	3145.9	1277.6	728.1	673.1	625.1	611.3
60°	2953.6	3365.7	4265.6	3551.2	1614.2	762.4	741.8	625.1	604.5	597.6
62.5°	975.4	1497.4	2445.3	2335.4	446.5	755.6	748.7	556.4	556.4	556.4
65°	247.3	254.1	673.1	803.7	329.7	673.1	714.4	522.0	508.3	528.9
67.5°	212.9	192.3	357.2	316.0	274.8	467.1	625.1	501.4	474.0	474.0
70°	212.9	226.7	350.3	295.4	171.7	254.1	453.3	309.1	274.8	254.1
72.5°	199.2	219.8	309.1	267.9	116.8	123.6	199.2	103.0	96.2	82.4
75°	171.7	178.6	240.4	240.4	123.6	61.8	82.4	68.7	68.7	61.8
77.5°	116.8	89.3	137.4	171.7	89.3	41.2	34.3	34.3	34.3	27.5
80°	61.8	34.3	34.3	27.5	34.3	34.3	20.6	27.5	27.5	20.6
82.5°	34.3	20.6	20.6	13.7	13.7	20.6	13.7	13.7	13.7	13.7
85°	13.7	13.7	6.9	6.9	6.9	13.7	6.9	6.9	6.9	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.9
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

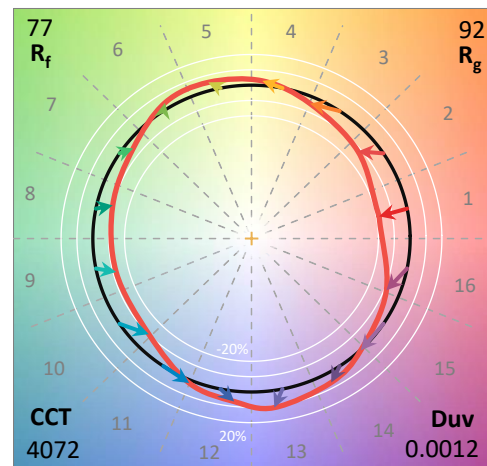
Data in this report applies to families of products including NFFLD-C55-7040-66

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

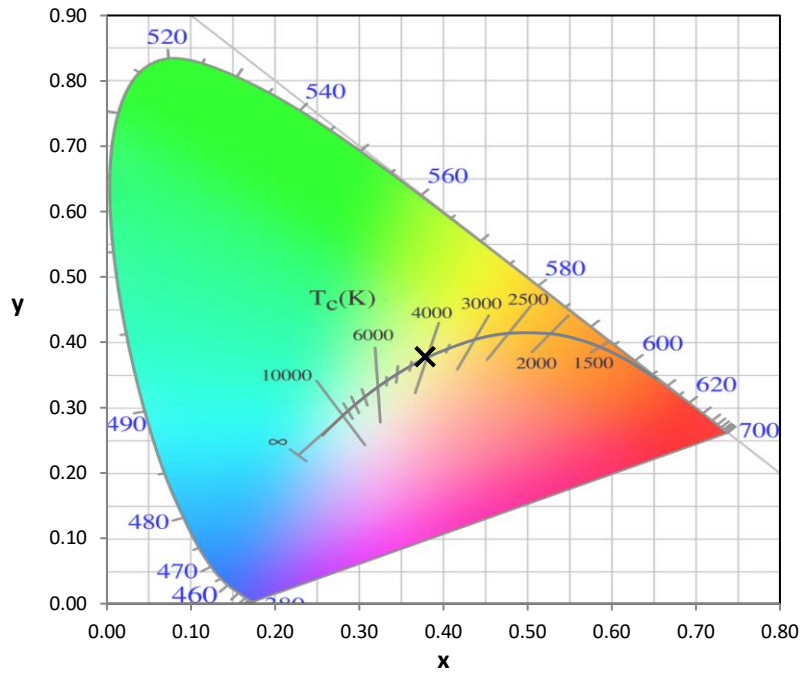
Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2501-319-13

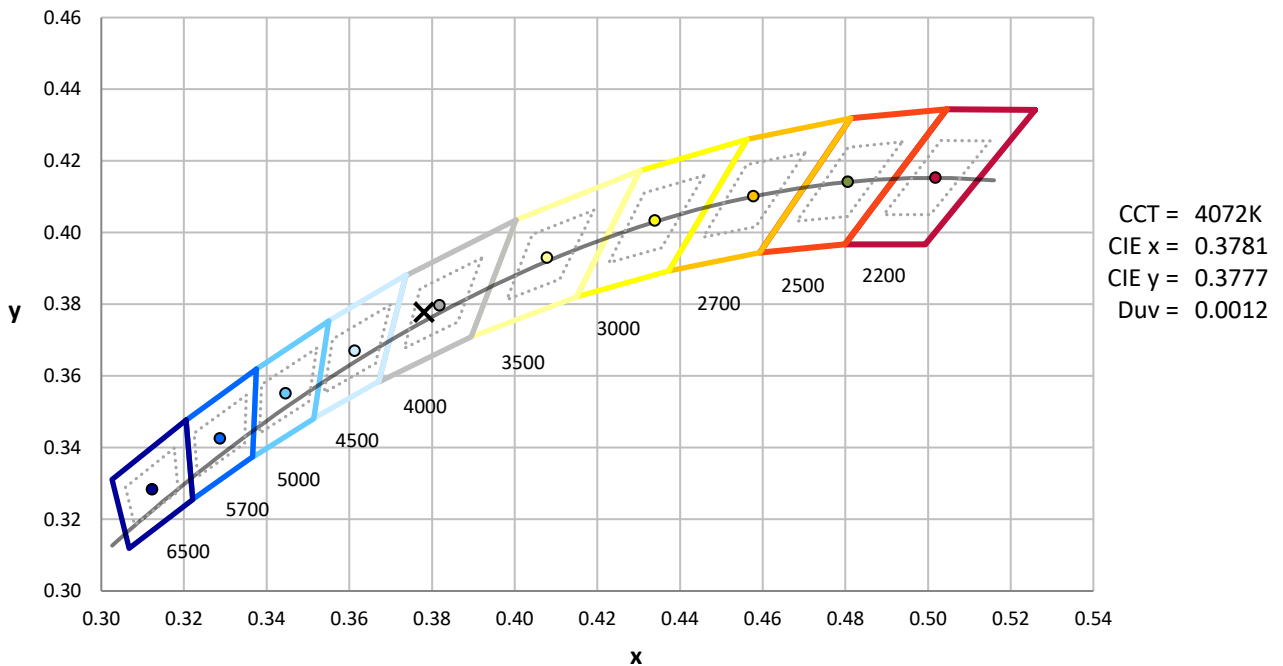
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-319-13

CIE 1931 Chromaticity Diagram



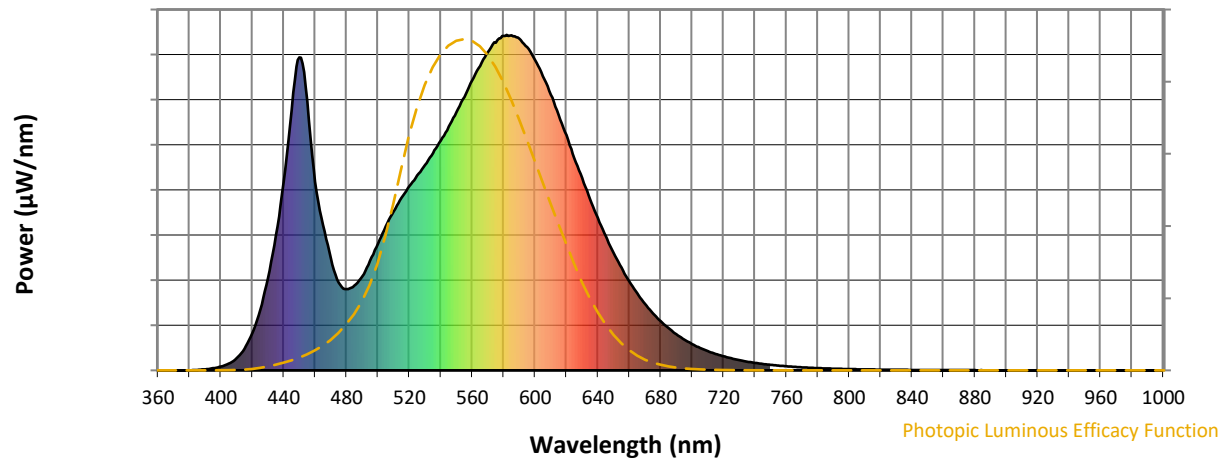
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-13

Photopic Flux vs. Wavelength

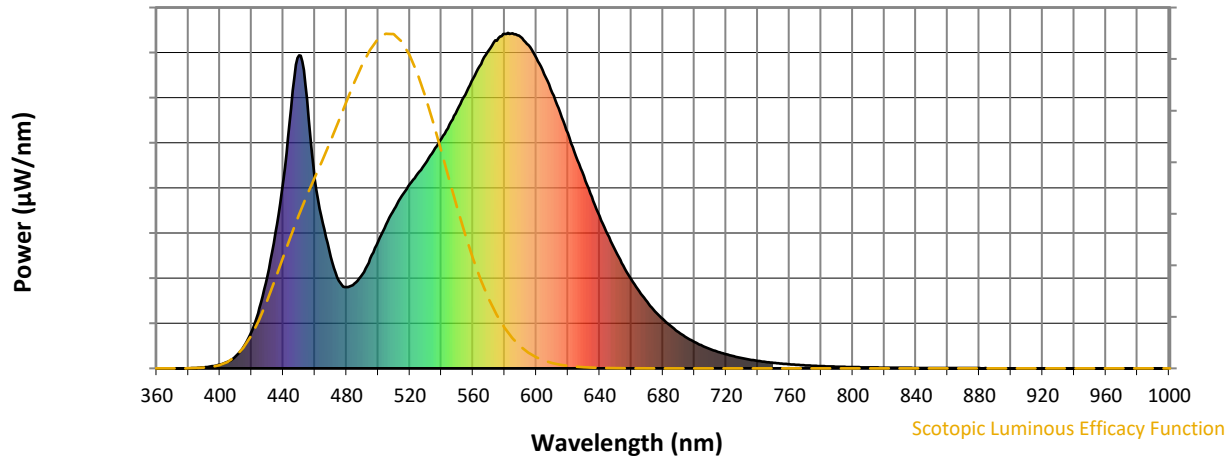


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2501-319-13

Scotopic Flux vs. Wavelength



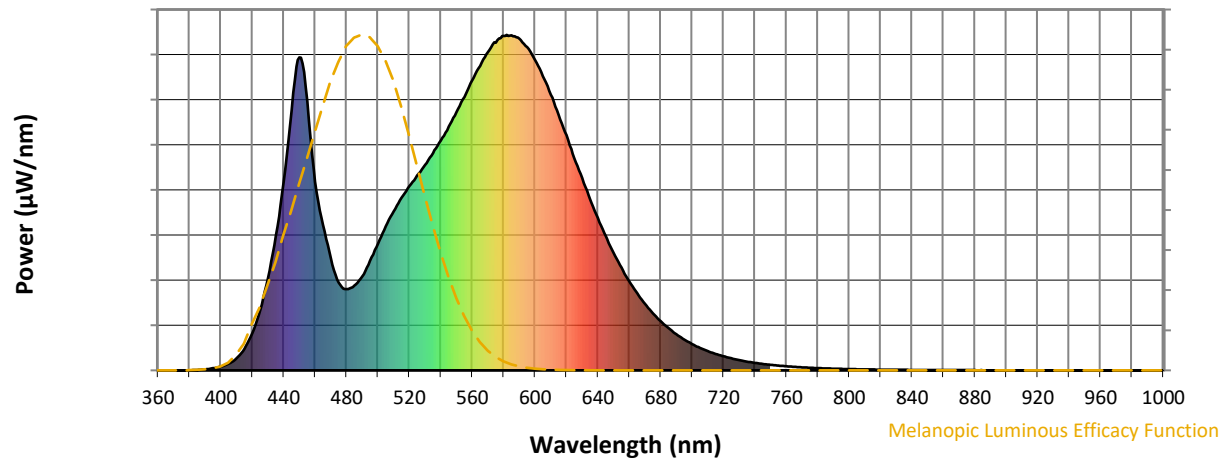
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2501-319-13

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.24

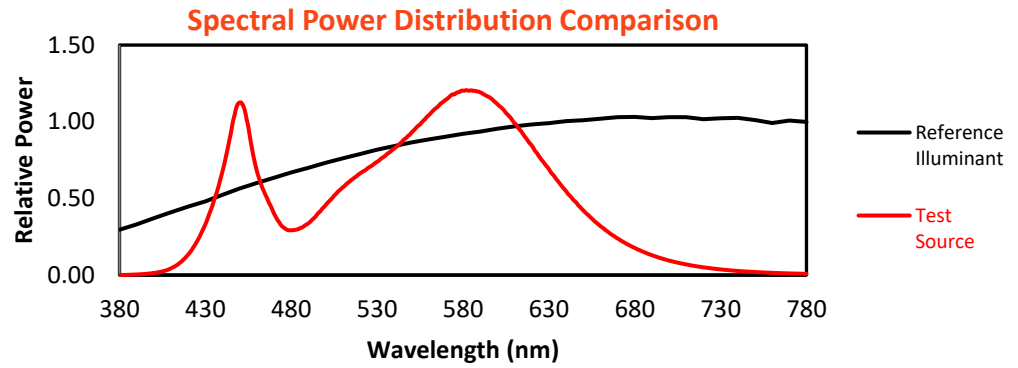
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	280	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			

REPORT NUMBER: SP1-2501-319-13

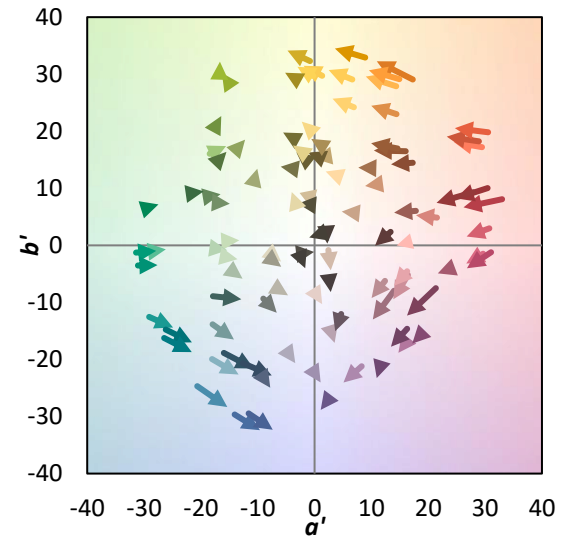
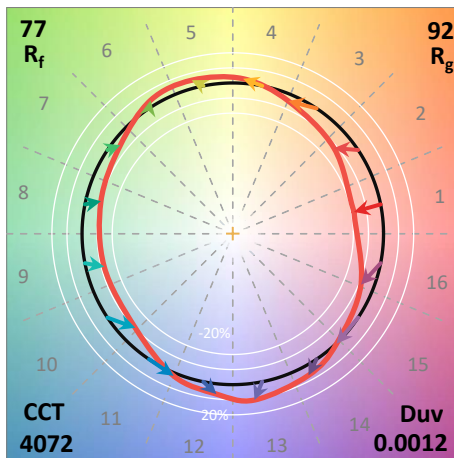
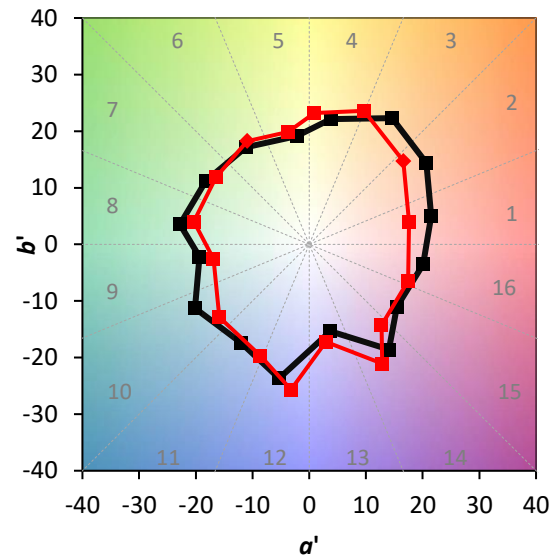
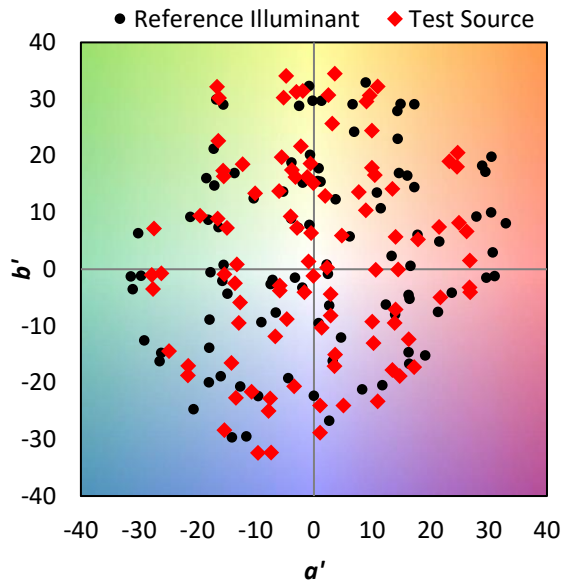
TM-30-18

Summary

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

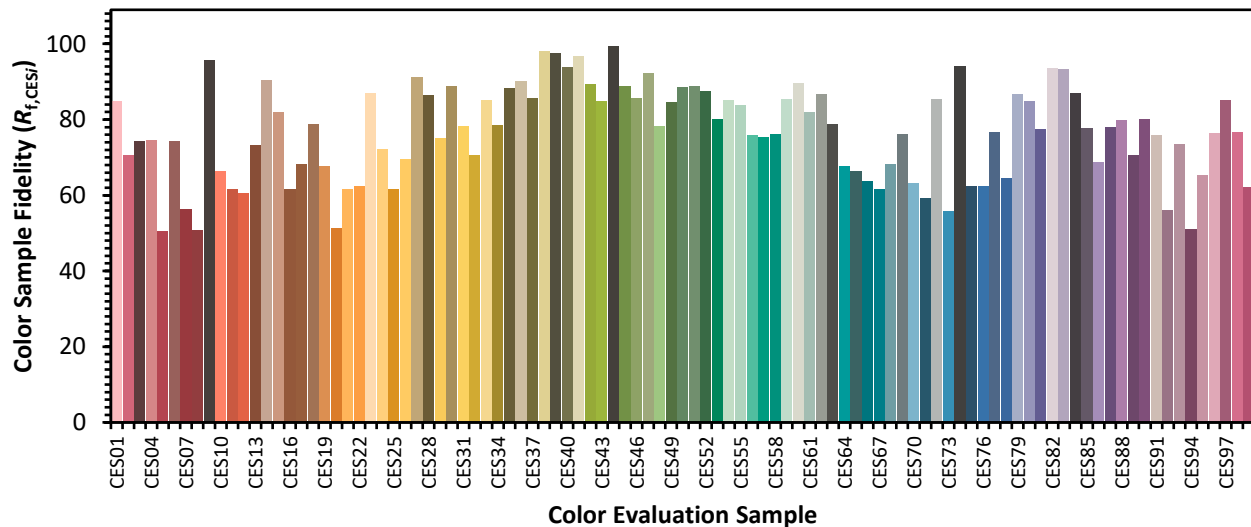


Color Vector Graphics

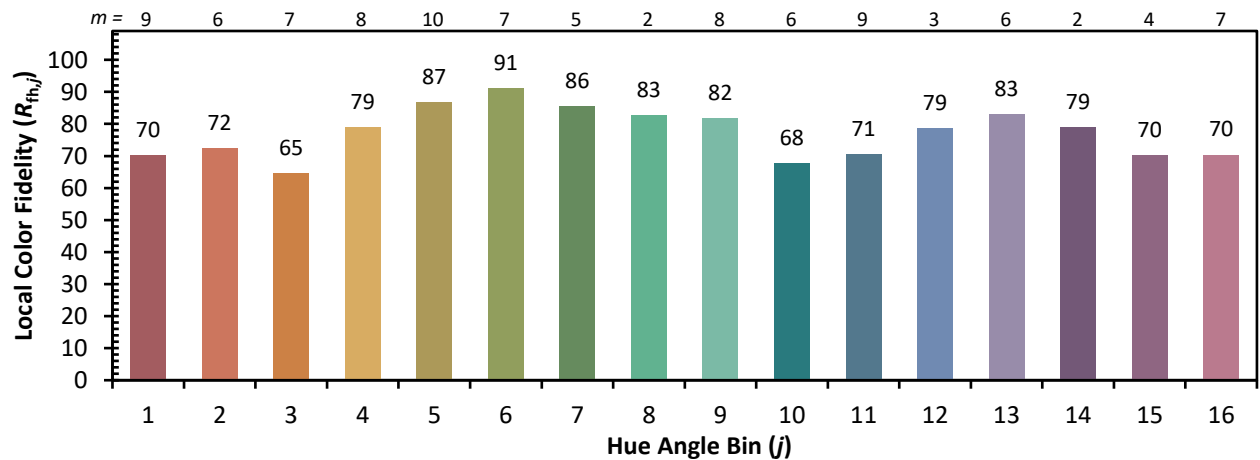
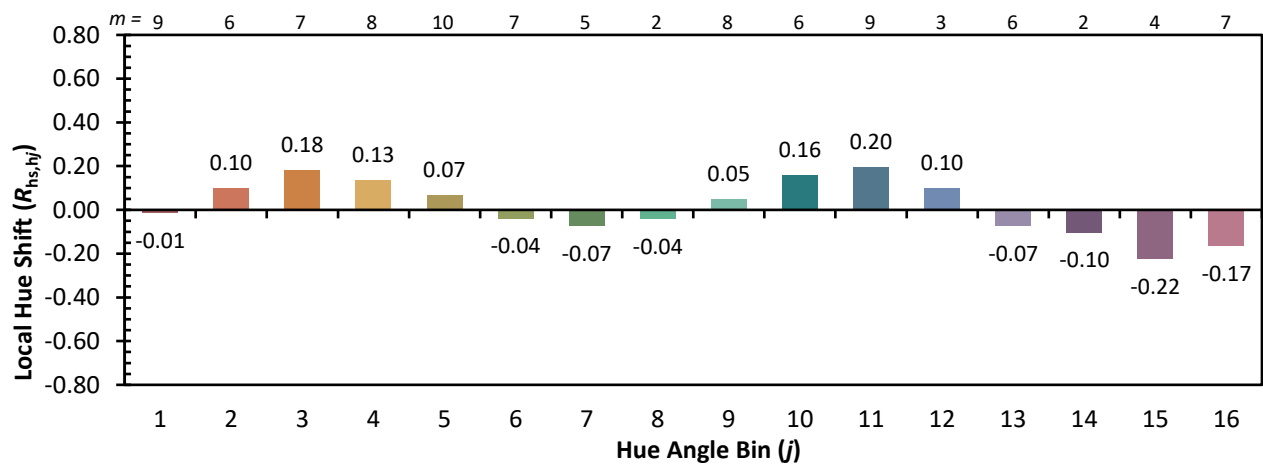
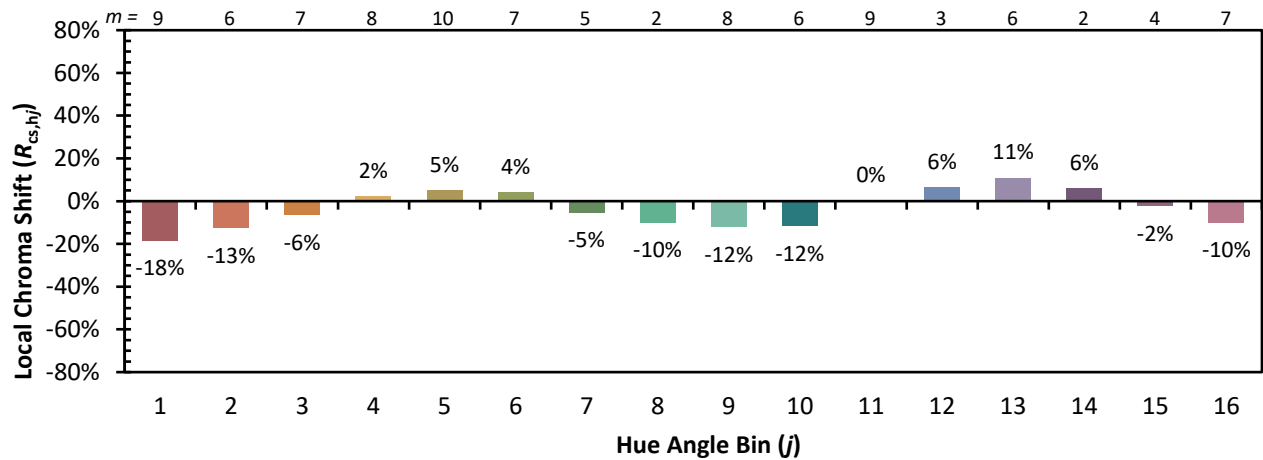


Individual Sample Fidelity Index ($R_{f,i}$)

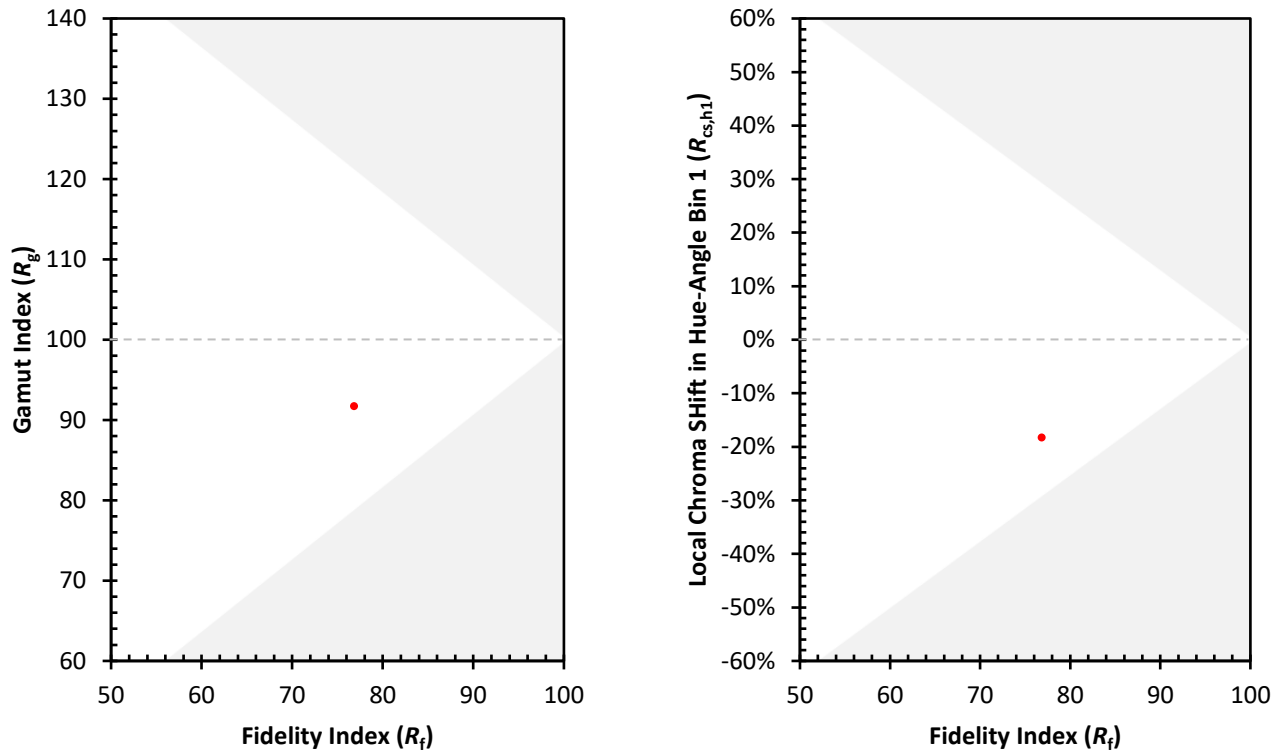
CES01 = 85	CES26 = 70	CES51 = 89	CES76 = 62
CES02 = 61	CES27 = 91	CES52 = 87	CES77 = 77
CES03 = 30	CES28 = 87	CES53 = 80	CES78 = 65
CES04 = 70	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 47	CES30 = 89	CES55 = 84	CES80 = 85
CES06 = 50	CES31 = 78	CES56 = 76	CES81 = 77
CES07 = 39	CES32 = 70	CES57 = 75	CES82 = 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)