

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: LUMARK

Report Number: P980969

Luminaire Tested: **NFFLD-C70-7040-66**

Issue Date: 04/10/2025



Test Information

Test Method: LM-79-08
Report Number: P980969
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C70-7040-66
Description: LUMARK NIGHT FALCON MEDIUM SIZE 180W 70CRI 4000K LED FIXTURE NEMA 6
Light Source: (2) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

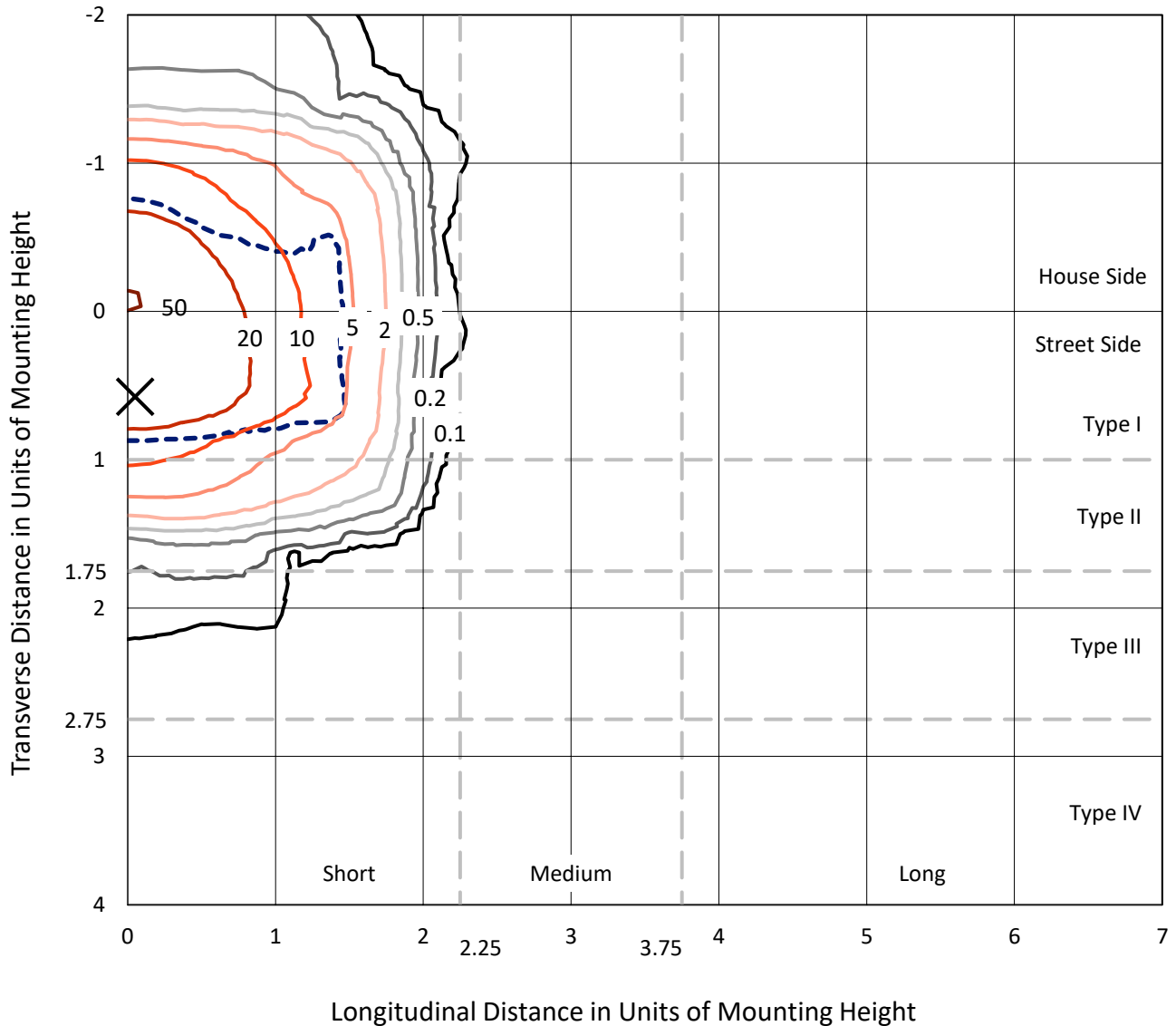
Lumens per Lamp: N/A
Luminaire Lumens: 27527.4 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.31' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 180.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 2.80%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P980969
 CATALOG NUMBER: NFFLD-C70-7040-66

Iso-Footcandle Lines of Horizontal Illumination

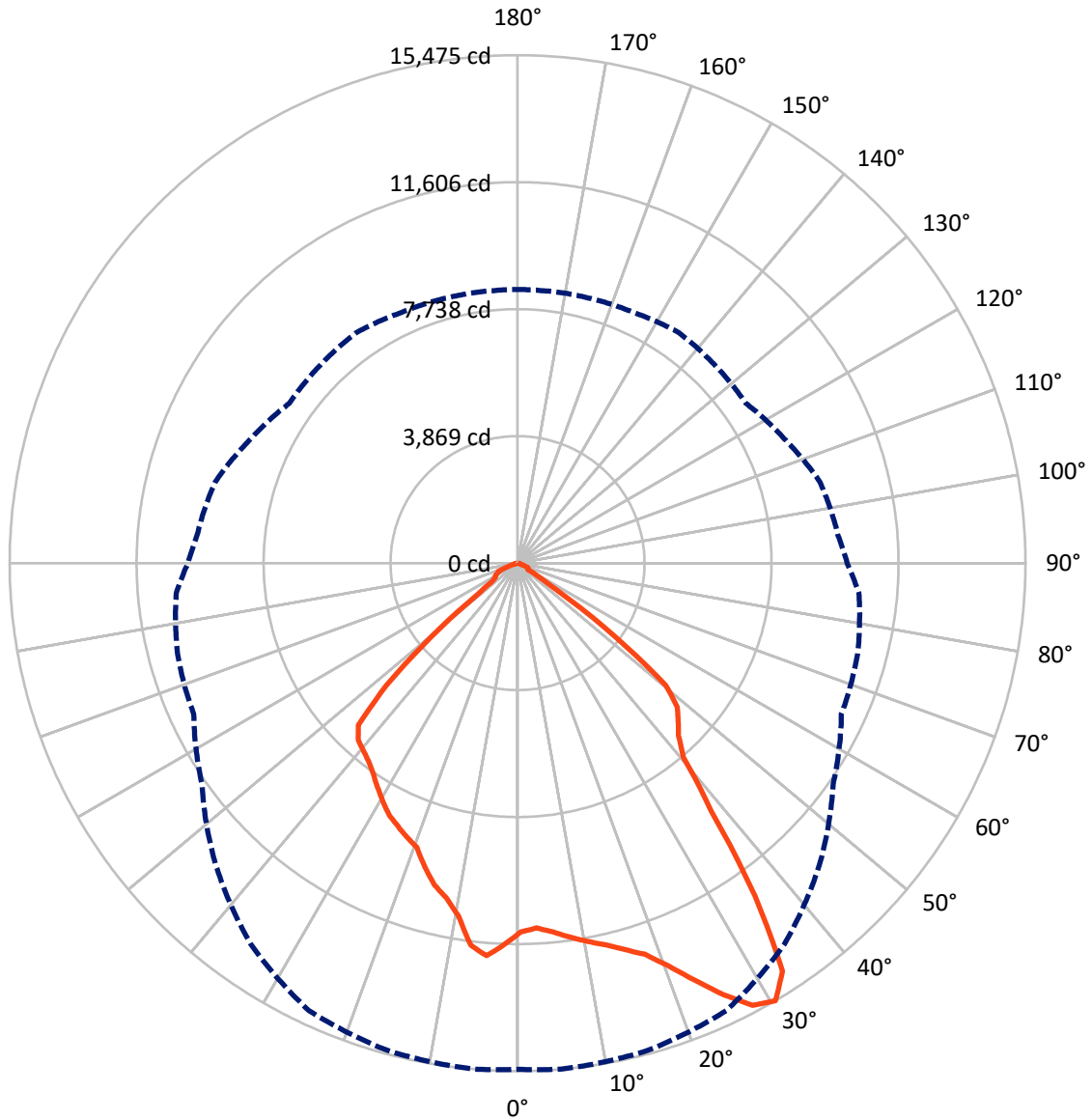
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 51.2 fc
 Type I - Short - N/A

REPORT NUMBER: P980969
CATALOG NUMBER: NFFLD-C70-7040-66

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 30-Deg Vertical

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 CATALOG NUMBER: NFFLD-C70-7040-66

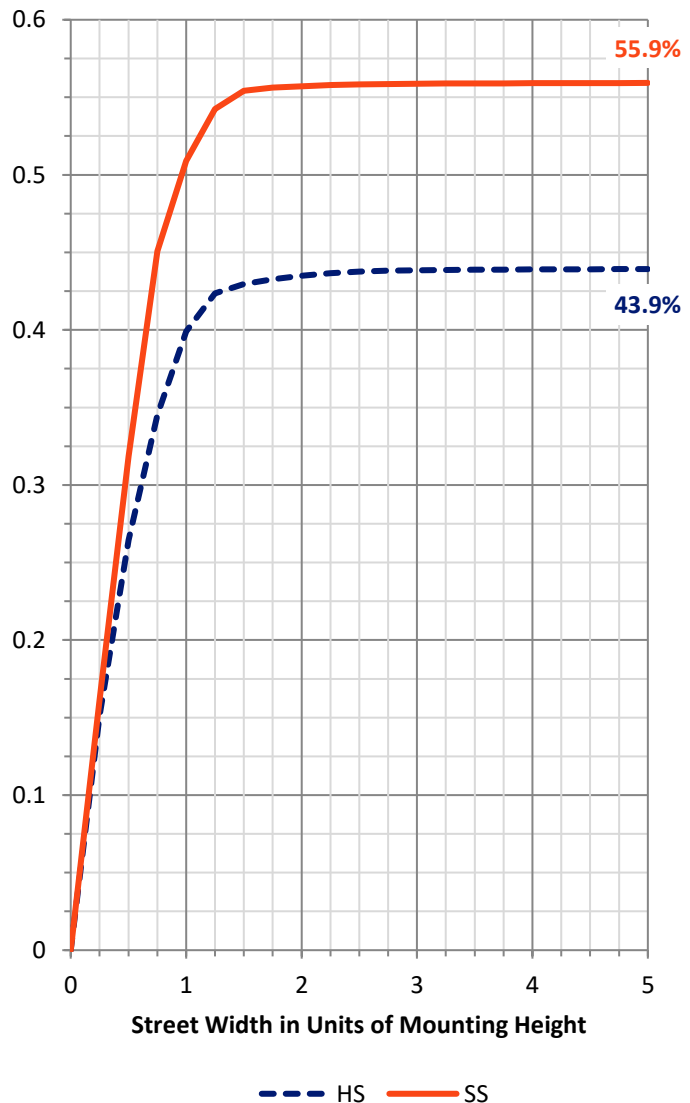
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12175.1	0.0	12175.1
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	15352.3	0.0	15352.3
	% Fixture	55.8	0.0	55.8
Total	Lumens	27527.4	0.0	27527.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.1	4.0
10°-20°	3184.0	11.6
20°-30°	5073.9	18.4
30°-40°	6343.2	23.0
40°-50°	6224.9	22.6
50°-60°	4450.4	16.2
60°-70°	984.7	3.6
70°-80°	151.3	0.5
80°-90°	16.0	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°	27527.4	100.0
0°-180°	27527.4	100.0



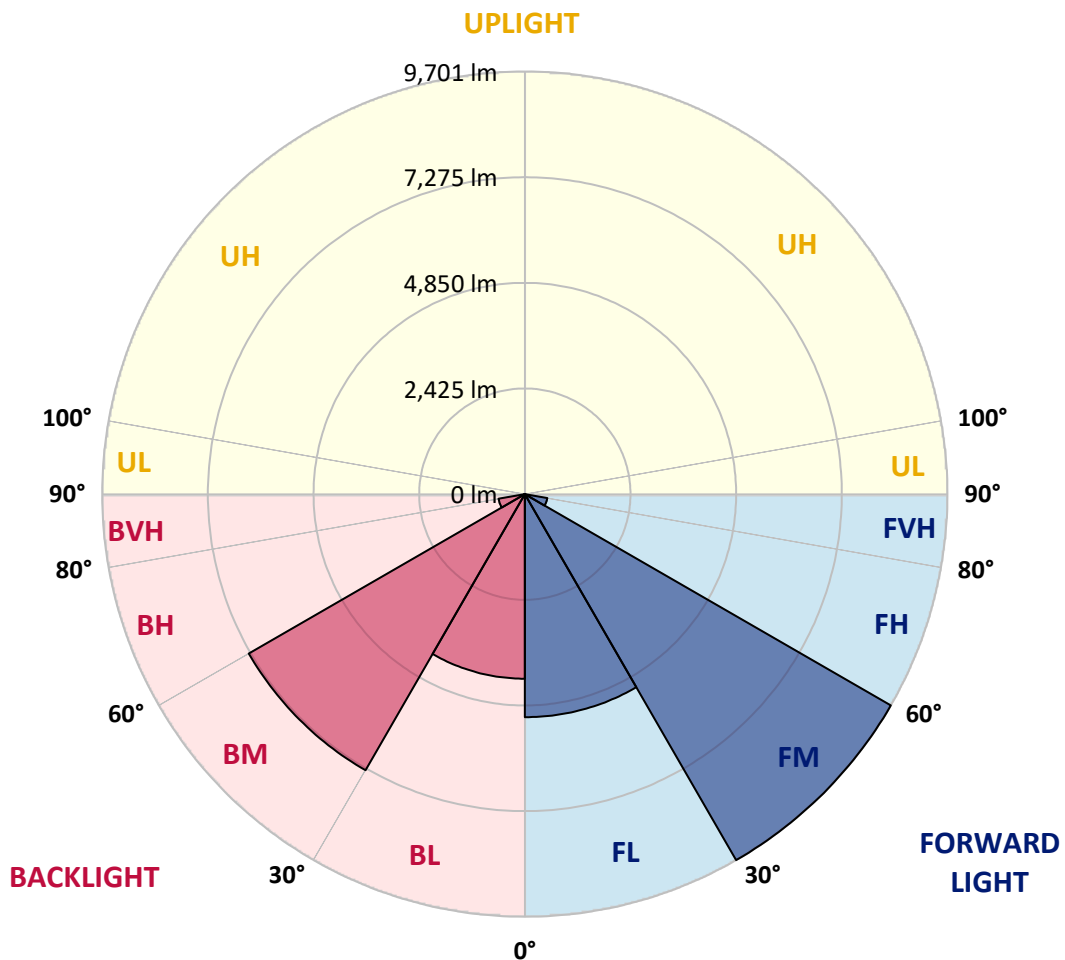
REPORT NUMBER: P980969
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5119.8	18.6			
FM (30°-60°)	9700.7	35.2			
FH (60°-80°)	523.7	1.9			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	4237.2	15.4	B4/5000		
BM (30°-60°)	7317.8	26.6	B4/8500		
BH (60°-80°)	612.2	2.2	B2/1000		G2/1000
BVH (80°-90°)	7.9	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-G2

Type I Short





REPORT NUMBER: P980969
 CATALOG NUMBER: NFFLD-C70-7040-66

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7
2.5°	11110.0	11128.0	11145.9	11172.9	11208.8	11226.8	11208.8	11190.8	11181.8	11199.8	11208.8
5°	11262.7	11289.6	11298.6	11316.6	11334.5	11316.6	11307.6	11289.6	11280.6	11289.6	11316.6
7.5°	11487.2	11505.2	11496.2	11487.2	11478.2	11415.4	11352.5	11325.5	11325.5	11352.5	11424.3
10°	11684.8	11720.7	11675.8	11639.9	11577.0	11478.2	11370.5	11307.6	11325.5	11379.4	11469.3
12.5°	11936.3	11936.3	11891.4	11855.5	11711.7	11595.0	11451.3	11352.5	11352.5	11451.3	11550.1
15°	12241.7	12214.7	12196.7	12097.9	11927.3	11738.7	11559.1	11415.4	11388.4	11541.1	11604.0
17.5°	12627.9	12529.1	12484.2	12313.5	12080.0	11837.5	11595.0	11478.2	11397.4	11559.1	11487.2
20°	13157.8	13085.9	12942.2	12672.8	12196.7	11882.4	11595.0	11442.3	11379.4	11469.3	11397.4
22.5°	13840.3	13795.4	13472.1	13130.8	12502.1	11918.3	11550.1	11343.5	11325.5	11280.6	11128.0
25°	14675.6	14558.9	14226.5	13741.5	12960.2	12268.6	11541.1	11163.9	11101.0	10984.3	10714.8
27.5°	15385.1	15259.4	14855.2	14424.1	13588.9	12789.5	11613.0	10948.3	10876.5	10795.6	10463.3
30°	15421.1	15475.0	15367.2	15043.8	14172.7	13005.1	11738.7	10885.5	10723.8	10436.4	10041.2
32.5°	14693.6	14819.3	15079.8	15196.5	14612.7	13265.5	11846.5	10912.4	10616.0	9924.5	9601.1
35°	12205.7	12457.2	13526.0	14531.9	14738.5	13642.8	11936.3	10912.4	10580.1	9556.2	9304.7
37.5°	9376.6	9583.2	10490.3	12313.5	14181.6	13876.3	12133.9	10849.5	10535.2	9583.2	9241.9
40°	7661.1	7777.9	8173.1	9412.5	12223.7	13490.1	12331.5	10921.4	10400.5	9601.1	9277.8
42.5°	7194.1	7185.1	7104.3	7562.3	9322.7	12358.4	12466.2	11101.0	10175.9	9484.4	9214.9
45°	6879.8	6861.8	6789.9	6879.8	7373.7	10113.1	12367.4	11424.3	9897.5	9071.2	8891.6
47.5°	6538.5	6547.4	6520.5	6556.4	6466.6	7679.1	11810.5	11559.1	9421.5	8379.6	8316.8
50°	5721.2	5855.9	6215.1	6251.1	6017.5	6197.2	10113.1	11496.2	9080.2	8182.1	8128.2
52.5°	3556.6	3772.2	4832.0	5730.1	5595.4	5595.4	7715.0	11586.0	8469.5	8110.2	8146.1
55°	1257.4	1419.1	2586.6	3942.8	5011.6	5110.4	6098.4	10310.7	8397.6	8235.9	8271.9
57.5°	314.3	386.2	790.4	1706.5	3377.0	4634.4	5451.7	8514.4	6376.8	6152.3	6242.1
60°	368.2	359.3	494.0	547.9	1311.3	3664.4	4912.8	5748.1	4113.5	3853.0	3897.9
62.5°	395.2	368.2	386.2	485.0	215.6	1796.3	3915.9	3421.9	1697.5	1257.4	1329.2
65°	350.3	332.3	305.4	449.1	152.7	332.3	2308.2	1005.9	242.5	386.2	350.3
67.5°	233.5	242.5	251.5	359.3	143.7	143.7	305.4	251.5	170.6	350.3	305.4
70°	134.7	143.7	170.6	215.6	143.7	116.8	134.7	206.6	143.7	350.3	305.4
72.5°	80.8	80.8	80.8	89.8	143.7	98.8	89.8	170.6	125.7	323.3	305.4
75°	62.9	62.9	62.9	53.9	125.7	62.9	62.9	134.7	107.8	233.5	233.5
77.5°	53.9	53.9	53.9	44.9	71.9	53.9	53.9	98.8	98.8	116.8	134.7
80°	35.9	35.9	35.9	35.9	44.9	44.9	35.9	53.9	44.9	53.9	62.9
82.5°	18.0	26.9	26.9	18.0	26.9	26.9	26.9	35.9	26.9	35.9	35.9
85°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	18.0	9.0	9.0	18.0
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: P980969
 CATALOG NUMBER: NFFLD-C70-7040-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7	11235.7
2.5°	11226.8	11271.7	11334.5	11433.3	11469.3	11532.1	11586.0	11630.9	11630.9	11613.0
5°	11370.5	11496.2	11666.8	11819.5	11873.4	11936.3	11963.2	12008.1	11999.2	11990.2
7.5°	11496.2	11693.8	11873.4	11981.2	11963.2	11882.4	11828.5	11756.7	11729.7	11747.7
10°	11595.0	11774.6	11855.5	11783.6	11568.0	11379.4	11136.9	10975.3	10894.4	10921.4
12.5°	11630.9	11693.8	11621.9	11226.8	10957.3	10777.7	10580.1	10472.3	10427.4	10436.4
15°	11639.9	11496.2	11101.0	10804.6	10607.0	10382.5	10220.8	10122.0	10122.0	10131.0
17.5°	11451.3	11101.0	10759.7	10535.2	10256.8	10023.2	9933.4	9897.5	9673.0	9708.9
20°	11280.6	10777.7	10589.1	10238.8	9906.5	9753.8	9232.9	9179.0	9188.0	9197.0
22.5°	10921.4	10544.2	10373.5	9915.5	9538.2	9116.1	9044.3	8990.4	8999.4	8999.4
25°	10427.4	10211.9	9978.3	9502.3	9044.3	8963.4	8909.6	8837.7	8801.8	8810.8
27.5°	10149.0	9879.5	9448.4	9044.3	8747.9	8783.8	8720.9	8613.2	8613.2	8622.1
30°	9798.7	9538.2	8963.4	8487.4	8514.4	8568.3	8415.6	8361.7	8334.7	8334.7
32.5°	9367.6	9008.3	8505.4	8056.3	8218.0	8200.0	8011.4	8029.4	8047.3	8029.4
35°	9044.3	8577.2	8155.1	7912.6	7849.7	7777.9	7679.1	7742.0	7768.9	7751.0
37.5°	8963.4	8406.6	7966.5	7795.9	7553.4	7418.6	7445.6	7508.5	7544.4	7535.4
40°	8936.5	8235.9	7804.8	7625.2	7301.9	7185.1	7221.0	7346.8	7391.7	7382.7
42.5°	8900.6	8119.2	7706.0	7490.5	7041.4	6960.6	7131.2	7248.0	7257.0	7248.0
45°	8712.0	7993.4	7643.2	7212.1	6646.2	6745.0	6960.6	7023.5	6915.7	6870.8
47.5°	8271.9	7759.9	7454.6	6870.8	6322.9	6511.5	6538.5	5855.9	5460.7	5370.9
50°	8146.1	7768.9	7239.0	6466.6	6125.3	6313.9	5137.4	3924.9	3430.9	3332.1
52.5°	8110.2	7679.1	7319.8	6044.5	6053.5	5326.0	3242.3	1922.0	1544.8	1473.0
55°	8200.0	8074.3	7454.6	5793.0	5631.3	3466.8	1508.9	907.1	934.1	907.1
57.5°	6188.2	6754.0	7616.2	5397.8	4113.5	1670.5	952.0	880.2	817.3	799.3
60°	3862.0	4400.9	5577.5	4643.4	2110.6	996.9	970.0	817.3	790.4	781.4
62.5°	1275.4	1957.9	3197.4	3053.7	583.8	988.0	979.0	727.5	727.5	727.5
65°	323.3	332.3	880.2	1050.8	431.1	880.2	934.1	682.6	664.6	691.6
67.5°	278.4	251.5	467.0	413.1	359.3	610.7	817.3	655.6	619.7	619.7
70°	278.4	296.4	458.1	386.2	224.5	332.3	592.8	404.2	359.3	332.3
72.5°	260.5	287.4	404.2	350.3	152.7	161.7	260.5	134.7	125.7	107.8
75°	224.5	233.5	314.3	314.3	161.7	80.8	107.8	89.8	89.8	80.8
77.5°	152.7	116.8	179.6	224.5	116.8	53.9	44.9	44.9	44.9	35.9
80°	80.8	44.9	44.9	35.9	44.9	44.9	26.9	35.9	35.9	26.9
82.5°	44.9	26.9	26.9	18.0	18.0	26.9	18.0	18.0	18.0	18.0
85°	18.0	18.0	9.0	9.0	9.0	18.0	9.0	9.0	9.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
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: SP1-2501-319-11

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7050-66

Data in this report applies to families of products including NFFLD-C55-7050-66

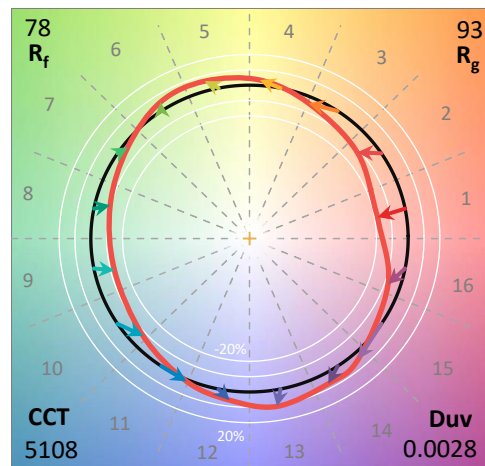
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-319-11
 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-C55-7050-66**
 Description: LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K): 5108
 CIE u': 0.2083
 CIE v': 0.4860
 Duv: 0.0028
 CIE x: 0.3426
 CIE y: 0.3552
 CIE z: 0.3022
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 568
 Purity: 9.36717
 Rf: 77.8
 Rg: 93.2

CRI (Ra):	75.3		
R1:	71.3	R9:	-33.6
R2:	82.0	R10:	58.1
R3:	90.0	R11:	71.9
R4:	74.3	R12:	56.4
R5:	73.5	R13:	73.5
R6:	75.6	R14:	94.6
R7:	81.5	R15:	63.4
R8:	54.1		



Test Conditions

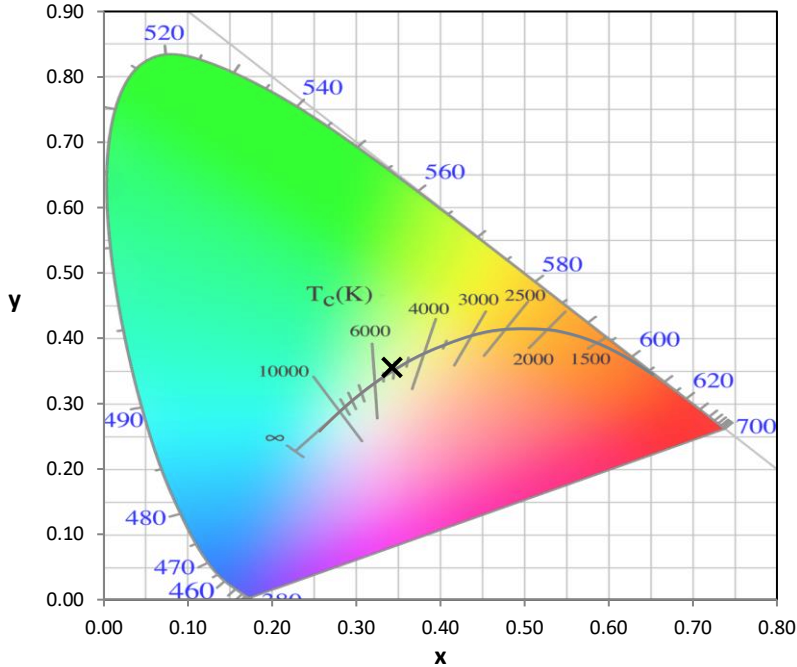
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.0

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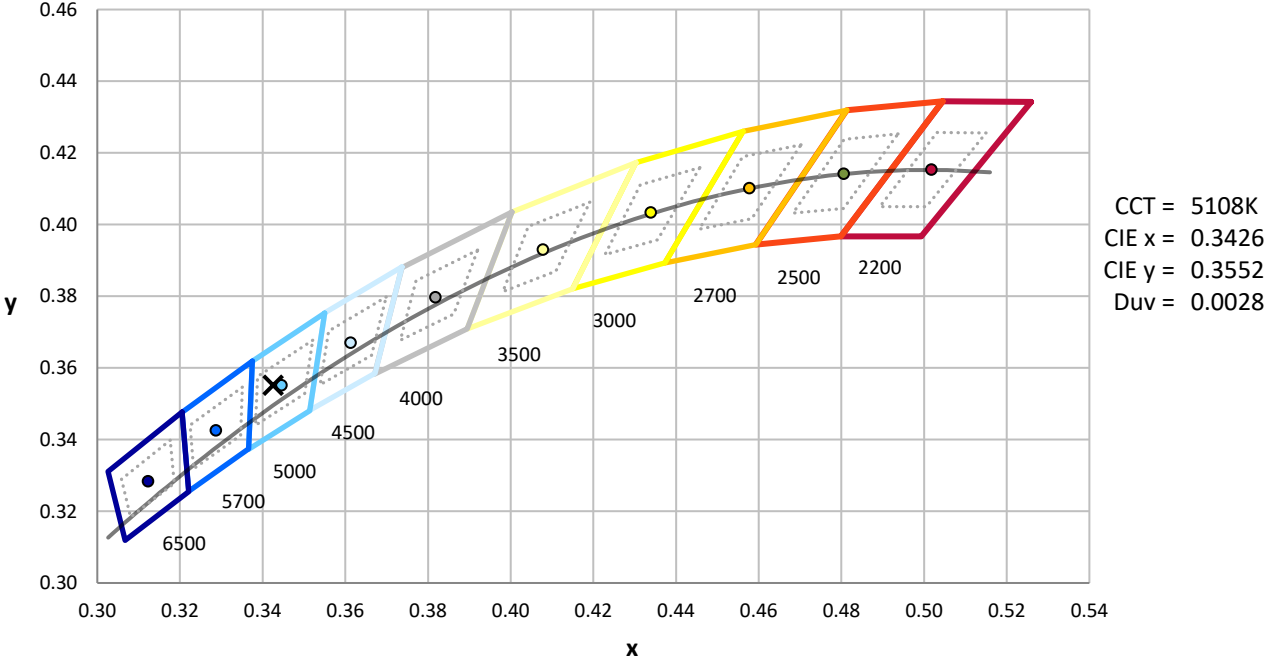
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



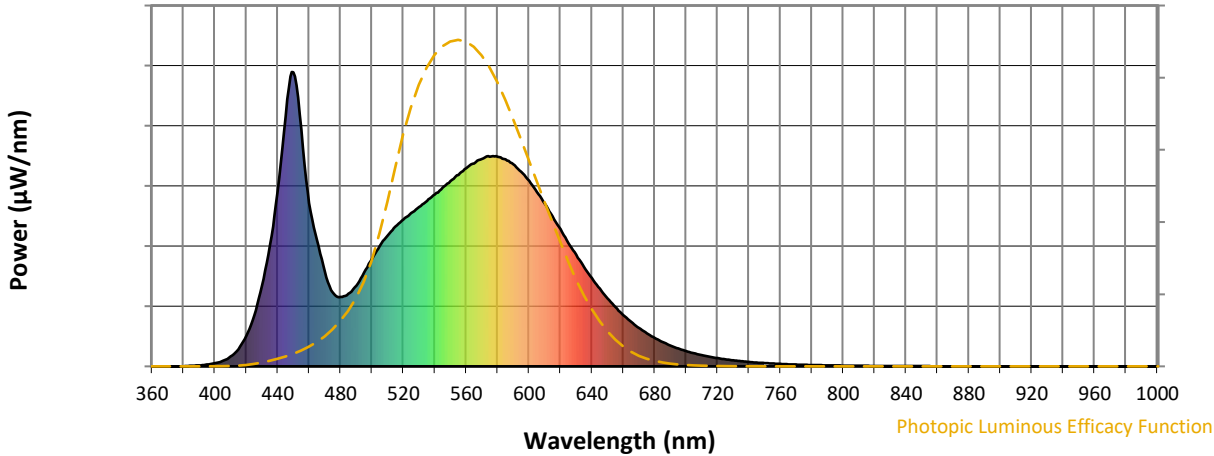
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

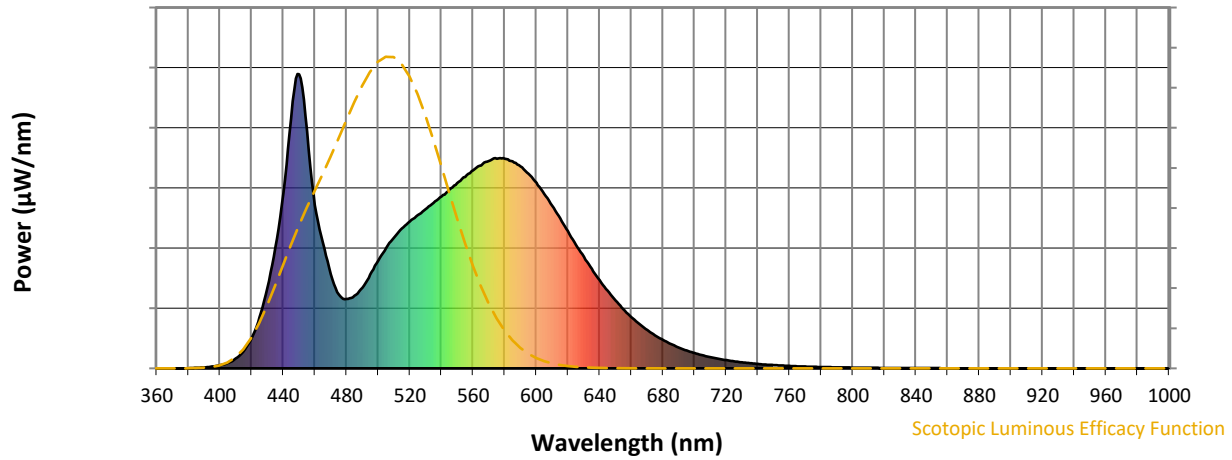


Photopic Lumens: NR

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	274	NR	620	466	NR	750	11	NR	880	0	NR
365	0	NR	495	319	NR	625	420	NR	755	10	NR	885	0	NR
370	0	NR	500	366	NR	630	380	NR	760	8	NR	890	0	NR
375	0	NR	505	409	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	445	NR	640	300	NR	770	6	NR	900	0	NR
385	2	NR	515	475	NR	645	264	NR	775	5	NR	905	0	NR
390	4	NR	520	499	NR	650	230	NR	780	5	NR	910	0	NR
395	6	NR	525	520	NR	655	201	NR	785	4	NR	915	0	NR
400	10	NR	530	542	NR	660	174	NR	790	3	NR	920	0	NR
405	18	NR	535	562	NR	665	151	NR	795	3	NR	925	0	NR
410	33	NR	540	584	NR	670	131	NR	800	3	NR	930	0	NR
415	59	NR	545	607	NR	675	112	NR	805	2	NR	935	0	NR
420	103	NR	550	629	NR	680	97	NR	810	2	NR	940	0	NR
425	173	NR	555	650	NR	685	83	NR	815	2	NR	945	0	NR
430	274	NR	560	673	NR	690	71	NR	820	2	NR	950	0	NR
435	412	NR	565	690	NR	695	61	NR	825	1	NR	955	0	NR
440	595	NR	570	705	NR	700	52	NR	830	1	NR	960	0	NR
445	849	NR	575	712	NR	705	44	NR	835	1	NR	965	0	NR
450	999	NR	580	713	NR	710	38	NR	840	1	NR	970	0	NR
455	805	NR	585	703	NR	715	33	NR	845	1	NR	975	0	NR
460	555	NR	590	686	NR	720	28	NR	850	1	NR	980	0	NR
465	428	NR	595	661	NR	725	24	NR	855	1	NR	985	0	NR
470	319	NR	600	630	NR	730	20	NR	860	1	NR	990	0	NR
475	251	NR	605	593	NR	735	18	NR	865	1	NR	995	0	NR
480	236	NR	610	552	NR	740	15	NR	870	0	NR	1000	0	NR
485	247	NR	615	510	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2501-319-11

Scotopic Flux vs. Wavelength



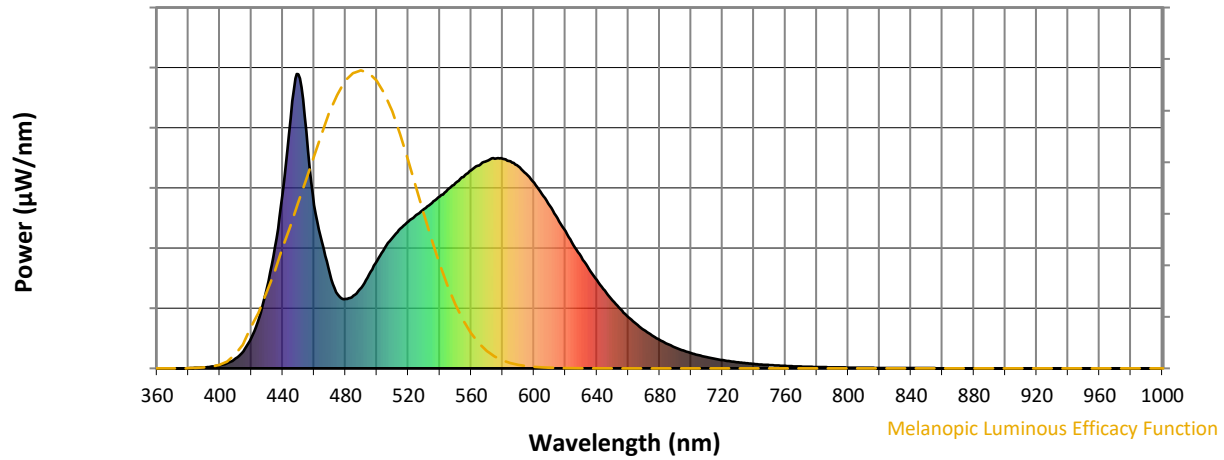
Scotopic Lumens: NR

S/P: 1.89

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	274	NR	620	466	NR	750	11	NR	880	0	NR
365	0	NR	495	319	NR	625	420	NR	755	10	NR	885	0	NR
370	0	NR	500	366	NR	630	380	NR	760	8	NR	890	0	NR
375	0	NR	505	409	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	445	NR	640	300	NR	770	6	NR	900	0	NR
385	2	NR	515	475	NR	645	264	NR	775	5	NR	905	0	NR
390	4	NR	520	499	NR	650	230	NR	780	5	NR	910	0	NR
395	6	NR	525	520	NR	655	201	NR	785	4	NR	915	0	NR
400	10	NR	530	542	NR	660	174	NR	790	3	NR	920	0	NR
405	18	NR	535	562	NR	665	151	NR	795	3	NR	925	0	NR
410	33	NR	540	584	NR	670	131	NR	800	3	NR	930	0	NR
415	59	NR	545	607	NR	675	112	NR	805	2	NR	935	0	NR
420	103	NR	550	629	NR	680	97	NR	810	2	NR	940	0	NR
425	173	NR	555	650	NR	685	83	NR	815	2	NR	945	0	NR
430	274	NR	560	673	NR	690	71	NR	820	2	NR	950	0	NR
435	412	NR	565	690	NR	695	61	NR	825	1	NR	955	0	NR
440	595	NR	570	705	NR	700	52	NR	830	1	NR	960	0	NR
445	849	NR	575	712	NR	705	44	NR	835	1	NR	965	0	NR
450	999	NR	580	713	NR	710	38	NR	840	1	NR	970	0	NR
455	805	NR	585	703	NR	715	33	NR	845	1	NR	975	0	NR
460	555	NR	590	686	NR	720	28	NR	850	1	NR	980	0	NR
465	428	NR	595	661	NR	725	24	NR	855	1	NR	985	0	NR
470	319	NR	600	630	NR	730	20	NR	860	1	NR	990	0	NR
475	251	NR	605	593	NR	735	18	NR	865	1	NR	995	0	NR
480	236	NR	610	552	NR	740	15	NR	870	0	NR	1000	0	NR
485	247	NR	615	510	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2501-319-11

Melanopic Flux vs. Wavelength



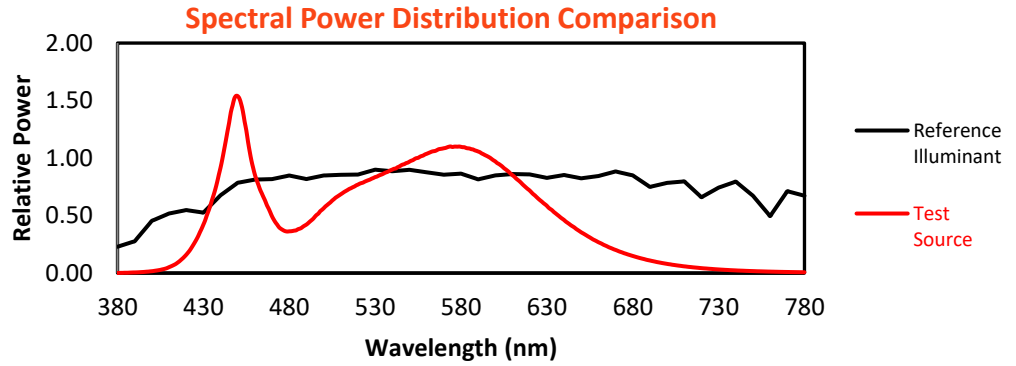
Melanopic Lumens: NR

M/P: 3.96

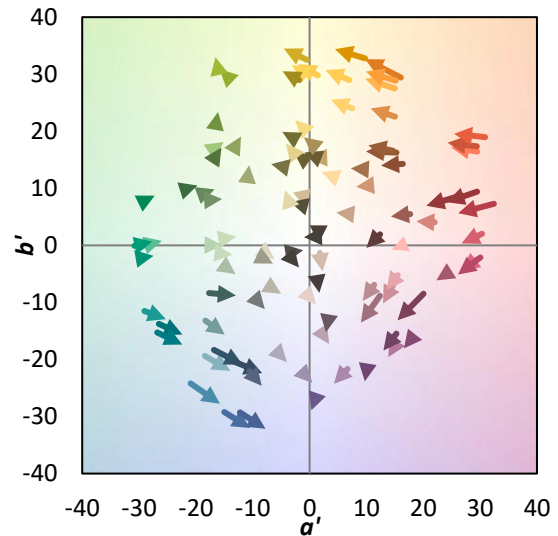
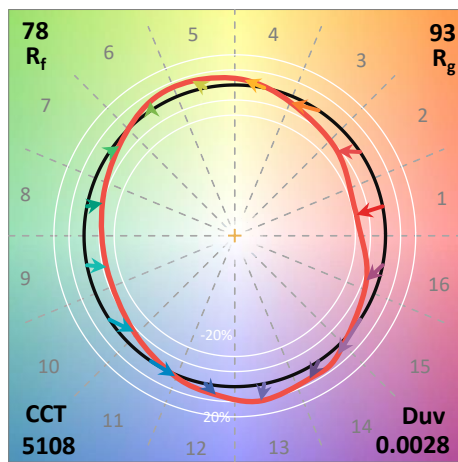
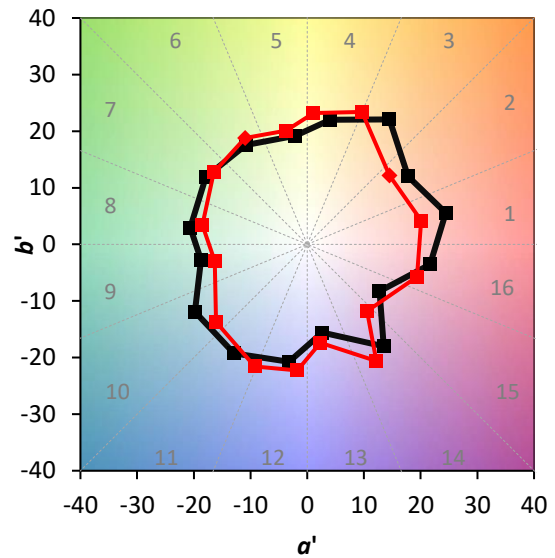
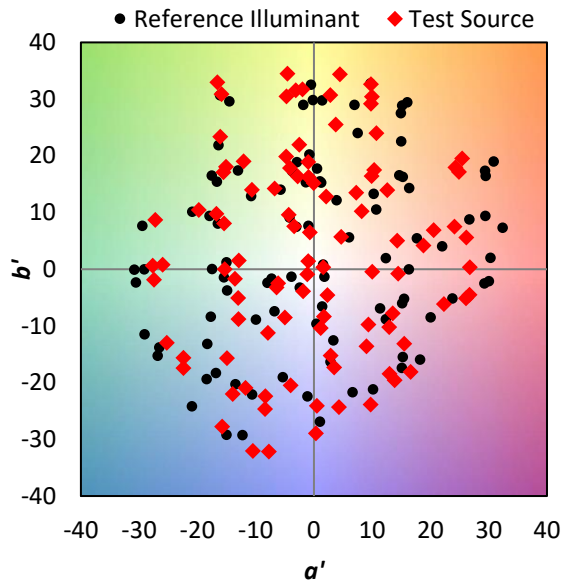
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	274	NR	620	466	NR	750	11	NR	880	0	NR
365	0	NR	495	319	NR	625	420	NR	755	10	NR	885	0	NR
370	0	NR	500	366	NR	630	380	NR	760	8	NR	890	0	NR
375	0	NR	505	409	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	445	NR	640	300	NR	770	6	NR	900	0	NR
385	2	NR	515	475	NR	645	264	NR	775	5	NR	905	0	NR
390	4	NR	520	499	NR	650	230	NR	780	5	NR	910	0	NR
395	6	NR	525	520	NR	655	201	NR	785	4	NR	915	0	NR
400	10	NR	530	542	NR	660	174	NR	790	3	NR	920	0	NR
405	18	NR	535	562	NR	665	151	NR	795	3	NR	925	0	NR
410	33	NR	540	584	NR	670	131	NR	800	3	NR	930	0	NR
415	59	NR	545	607	NR	675	112	NR	805	2	NR	935	0	NR
420	103	NR	550	629	NR	680	97	NR	810	2	NR	940	0	NR
425	173	NR	555	650	NR	685	83	NR	815	2	NR	945	0	NR
430	274	NR	560	673	NR	690	71	NR	820	2	NR	950	0	NR
435	412	NR	565	690	NR	695	61	NR	825	1	NR	955	0	NR
440	595	NR	570	705	NR	700	52	NR	830	1	NR	960	0	NR
445	849	NR	575	712	NR	705	44	NR	835	1	NR	965	0	NR
450	999	NR	580	713	NR	710	38	NR	840	1	NR	970	0	NR
455	805	NR	585	703	NR	715	33	NR	845	1	NR	975	0	NR
460	555	NR	590	686	NR	720	28	NR	850	1	NR	980	0	NR
465	428	NR	595	661	NR	725	24	NR	855	1	NR	985	0	NR
470	319	NR	600	630	NR	730	20	NR	860	1	NR	990	0	NR
475	251	NR	605	593	NR	735	18	NR	865	1	NR	995	0	NR
480	236	NR	610	552	NR	740	15	NR	870	0	NR	1000	0	NR
485	247	NR	615	510	NR	745	13	NR	875	0	NR			

Summary

$R_f = 77.8$
 $R_g = 93.2$
 $CIE R_a = 75.3$
 $R_9 = -33.6$

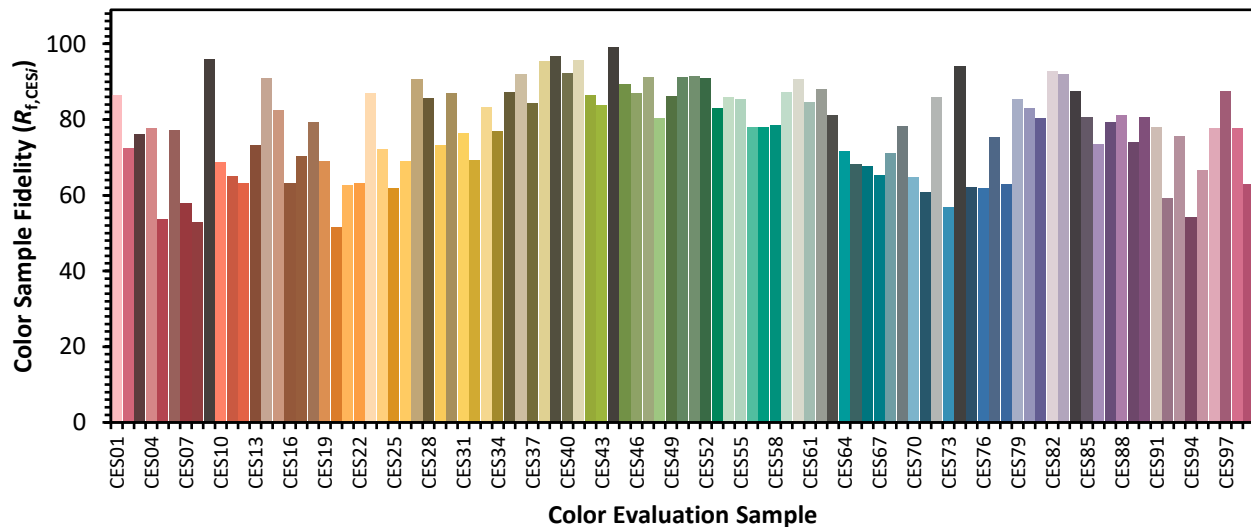


Color Vector Graphics

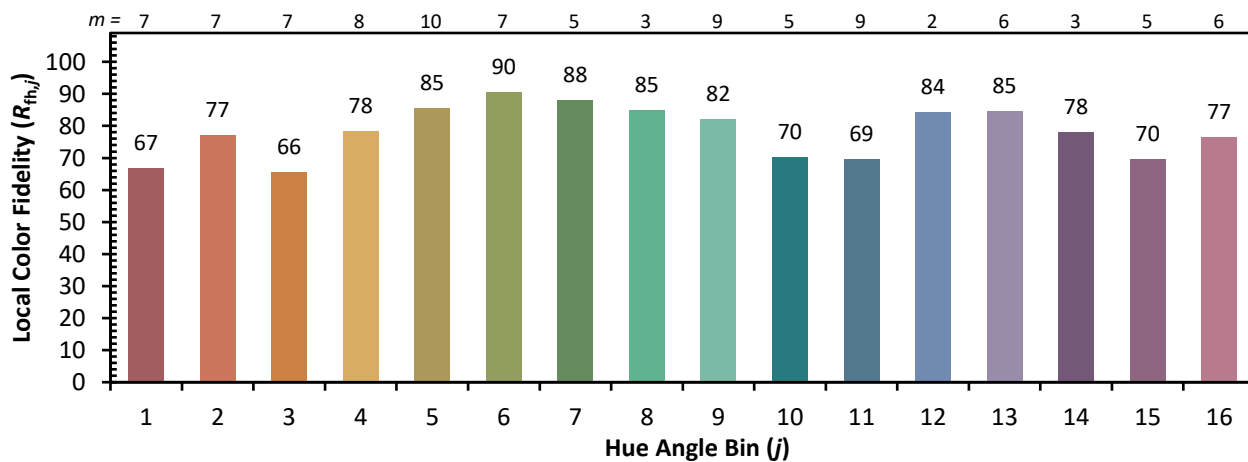
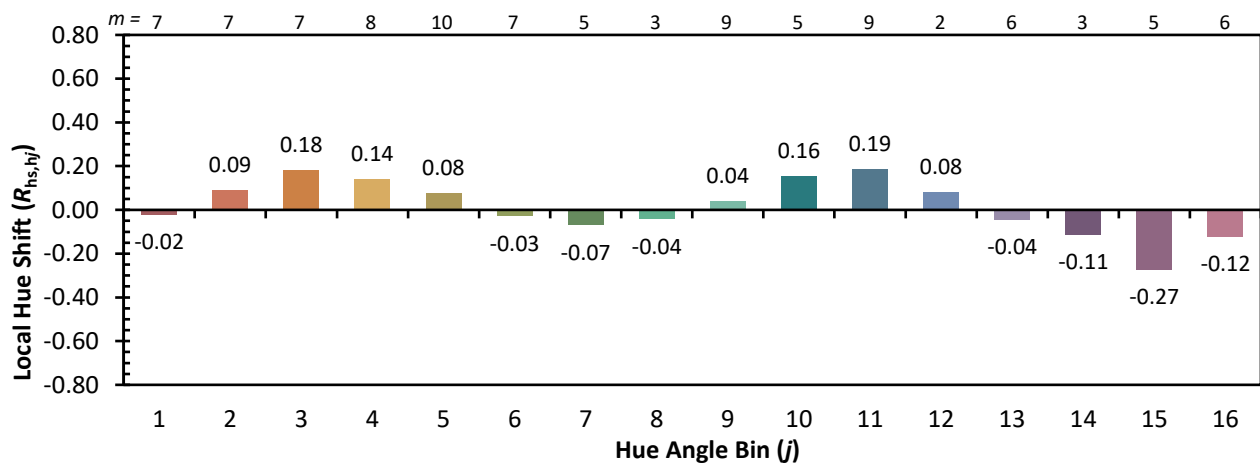
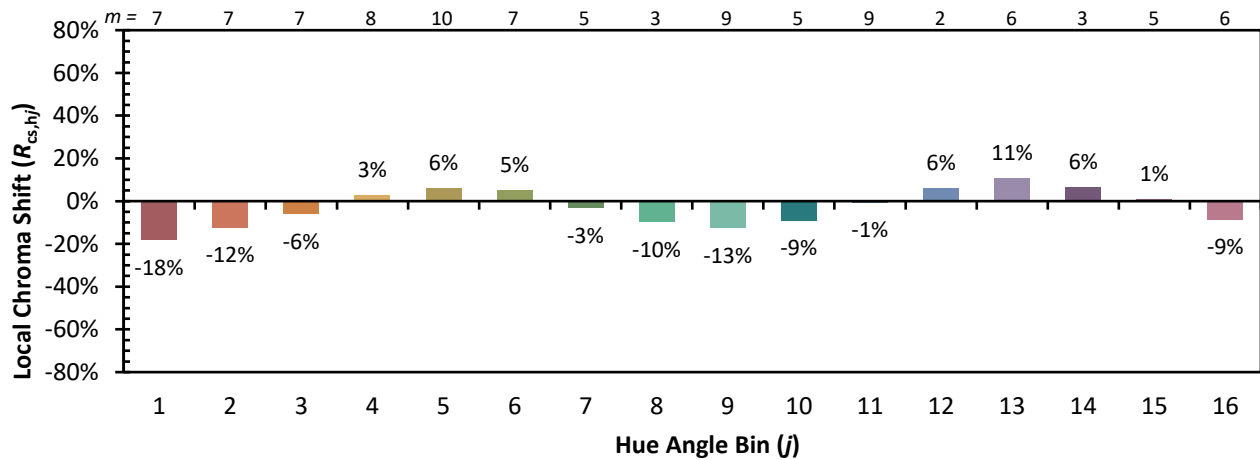


Individual Sample Fidelity Index ($R_{f,i}$)

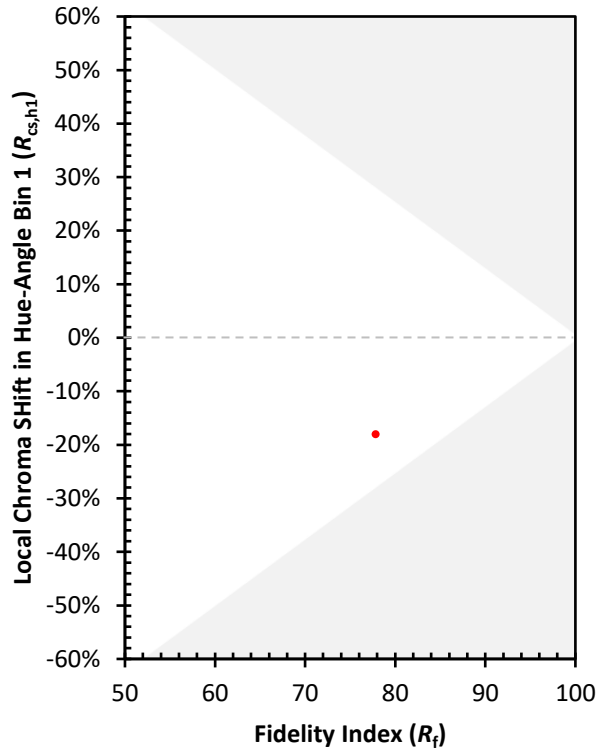
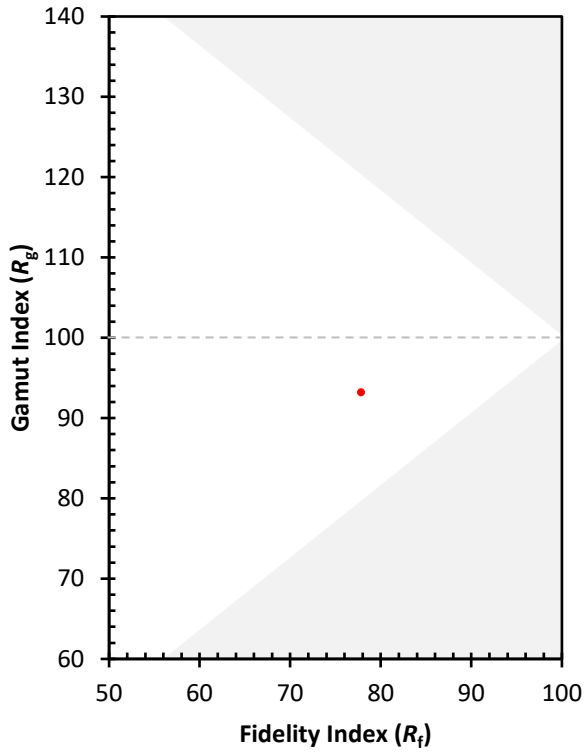
CES01 = 85	CES26 = 69	CES51 = 92	CES76 = 62
CES02 = 60	CES27 = 91	CES52 = 91	CES77 = 75
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 63
CES04 = 69	CES29 = 73	CES54 = 86	CES79 = 85
CES05 = 46	CES30 = 87	CES55 = 85	CES80 = 83
CES06 = 50	CES31 = 76	CES56 = 78	CES81 = 80
CES07 = 39	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 83	CES58 = 78	CES83 = 92
CES09 = 29	CES34 = 77	CES59 = 87	CES84 = 88
CES10 = 73	CES35 = 87	CES60 = 91	CES85 = 81
CES11 = 56	CES36 = 92	CES61 = 85	CES86 = 74
CES12 = 61	CES37 = 84	CES62 = 88	CES87 = 79
CES13 = 41	CES38 = 95	CES63 = 81	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 92	CES65 = 68	CES90 = 81
CES16 = 46	CES41 = 96	CES66 = 68	CES91 = 78
CES17 = 49	CES42 = 87	CES67 = 65	CES92 = 59
CES18 = 55	CES43 = 84	CES68 = 71	CES93 = 76
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 89	CES70 = 65	CES95 = 67
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 91	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 80	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 94	CES99 = 63
CES25 = 71	CES50 = 91	CES75 = 62	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)