

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: P980977

Luminaire Tested: **NFFLD-C25-7050-66**

Issue Date: 04/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P980977  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-C25-7050-66  
Description: LUMARK NIGHT FALCON MEDIUM SIZE 80W 70CRI 5000K LED FIXTURE NEMA 6  
Light Source: (2) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11665.7 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.31' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

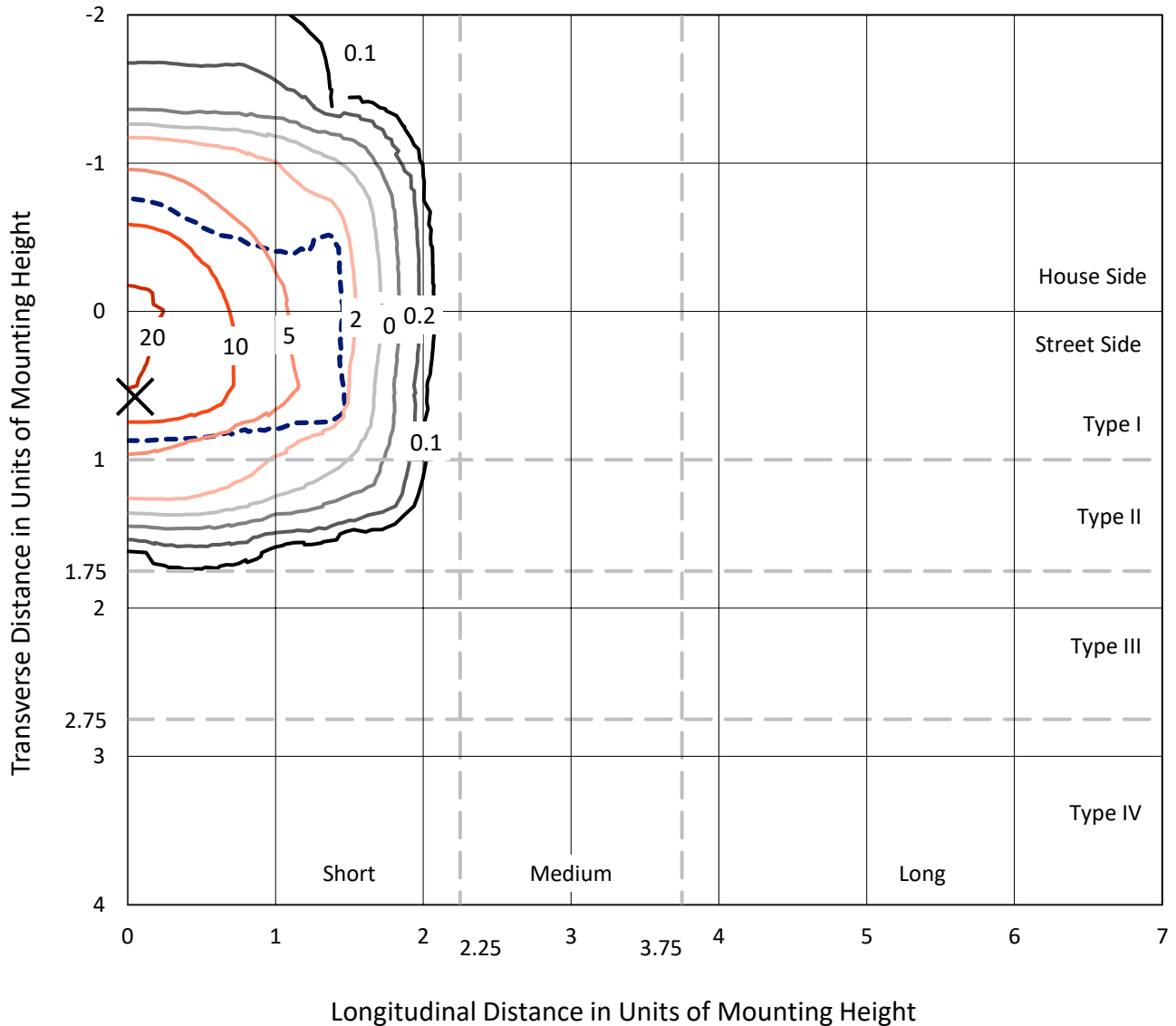
Input Watts (W): 84.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.59%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P980977  
 CATALOG NUMBER: NFFLD-C25-7050-66

### Iso-Footcandle Lines of Horizontal Illumination

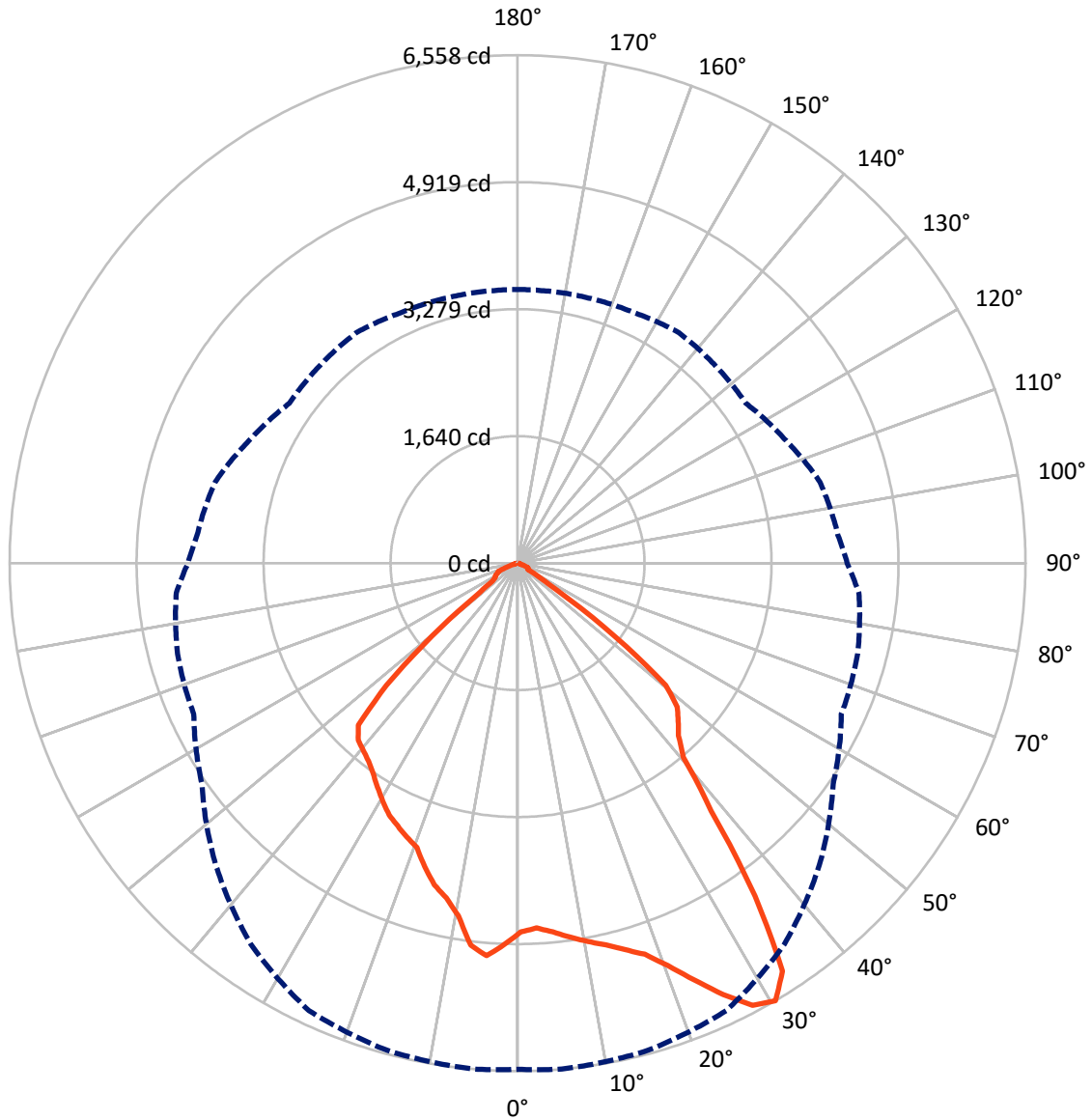
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 21.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P980977  
CATALOG NUMBER: NFFLD-C25-7050-66

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P980977  
 CATALOG NUMBER: NFFLD-C25-7050-66

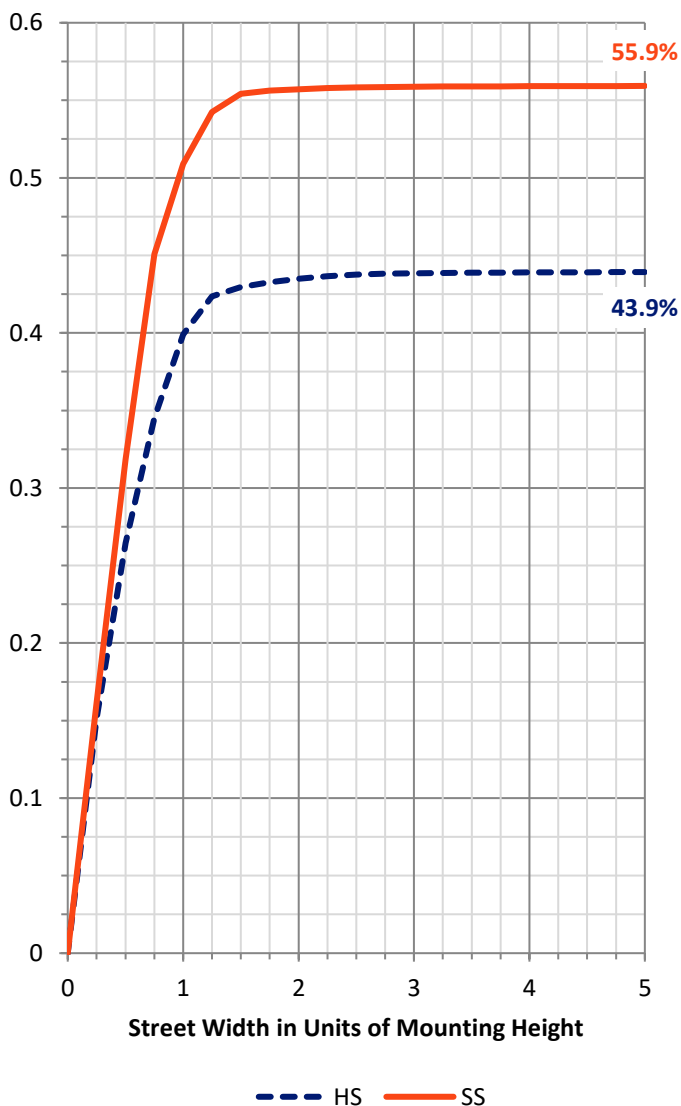
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5159.6	0.0	5159.6
	% Fixture	44.2	0.0	44.2
<b>Street Side</b>	Lumens	6506.1	0.0	6506.1
	% Fixture	55.8	0.0	55.8
<b>Total</b>	Lumens	11665.7	0.0	11665.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.8	4.0
10°-20°	1349.3	11.6
20°-30°	2150.3	18.4
30°-40°	2688.2	23.0
40°-50°	2638.0	22.6
50°-60°	1886.0	16.2
60°-70°	417.3	3.6
70°-80°	64.1	0.5
80°-90°	6.8	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°	11665.7	100.0
0°-180°	11665.7	100.0



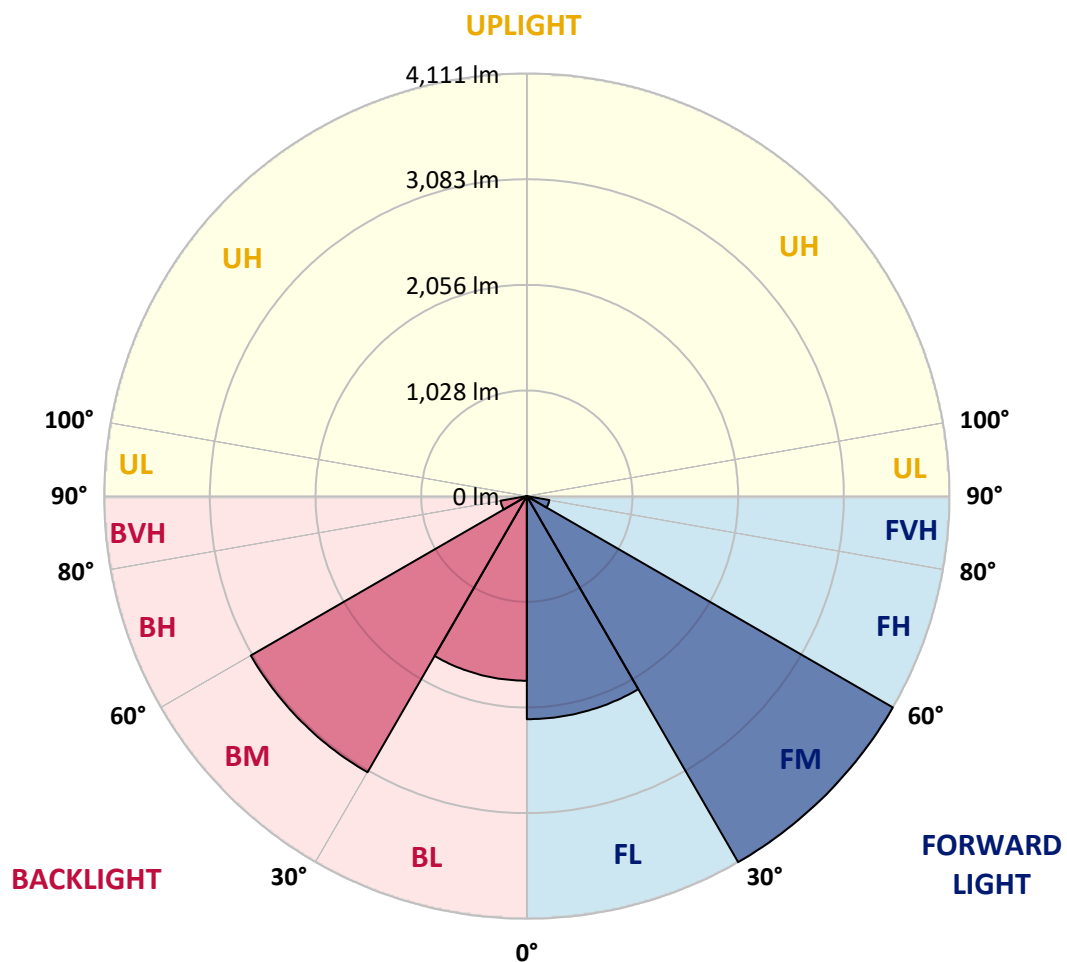
REPORT NUMBER: P980977  
 CATALOG NUMBER: NFFLD-C25-7050-66

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2169.7	18.6			
FM (30°-60°)	4111.0	35.2			
FH (60°-80°)	221.9	1.9			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	1795.7	15.4	B3/2500		
BM (30°-60°)	3101.2	26.6	B3/5000		
BH (60°-80°)	259.4	2.2	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





REPORT NUMBER: P980977  
 CATALOG NUMBER: NFFLD-C25-7050-66

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6
2.5°	4708.3	4715.9	4723.5	4734.9	4750.1	4757.7	4750.1	4742.5	4738.7	4746.3	4750.1
5°	4773.0	4784.4	4788.2	4795.8	4803.4	4795.8	4792.0	4784.4	4780.6	4784.4	4795.8
7.5°	4868.1	4875.7	4871.9	4868.1	4864.3	4837.7	4811.0	4799.6	4799.6	4811.0	4841.5
10°	4951.9	4967.1	4948.1	4932.8	4906.2	4864.3	4818.6	4792.0	4799.6	4822.5	4860.5
12.5°	5058.4	5058.4	5039.4	5024.2	4963.3	4913.8	4852.9	4811.0	4811.0	4852.9	4894.8
15°	5187.8	5176.4	5168.8	5127.0	5054.6	4974.7	4898.6	4837.7	4826.3	4891.0	4917.6
17.5°	5351.5	5309.6	5290.6	5218.3	5119.3	5016.6	4913.8	4864.3	4830.1	4898.6	4868.1
20°	5576.1	5545.6	5484.7	5370.5	5168.8	5035.6	4913.8	4849.1	4822.5	4860.5	4830.1
22.5°	5865.4	5846.3	5709.3	5564.7	5298.2	5050.8	4894.8	4807.2	4799.6	4780.6	4715.9
25°	6219.3	6169.8	6029.0	5823.5	5492.3	5199.3	4891.0	4731.1	4704.5	4655.0	4540.8
27.5°	6520.0	6466.7	6295.5	6112.8	5758.8	5420.0	4921.4	4639.8	4609.3	4575.1	4434.2
30°	6535.2	6558.1	6512.4	6375.4	6006.2	5511.4	4974.7	4613.1	4544.6	4422.8	4255.3
32.5°	6226.9	6280.2	6390.6	6440.1	6192.7	5621.8	5020.4	4624.5	4498.9	4205.8	4068.8
35°	5172.6	5279.2	5732.1	6158.4	6246.0	5781.6	5058.4	4624.5	4483.7	4049.8	3943.2
37.5°	3973.7	4061.2	4445.6	5218.3	6010.0	5880.6	5142.2	4597.9	4464.7	4061.2	3916.6
40°	3246.7	3296.2	3463.6	3988.9	5180.2	5716.9	5225.9	4628.3	4407.6	4068.8	3931.8
42.5°	3048.8	3045.0	3010.7	3204.8	3950.8	5237.3	5283.0	4704.5	4312.4	4019.3	3905.2
45°	2915.5	2907.9	2877.5	2915.5	3124.9	4285.8	5241.1	4841.5	4194.4	3844.3	3768.1
47.5°	2770.9	2774.7	2763.3	2778.5	2740.5	3254.3	5005.2	4898.6	3992.7	3551.2	3524.5
50°	2424.5	2481.6	2633.9	2649.1	2550.2	2626.3	4285.8	4871.9	3848.1	3467.4	3444.6
52.5°	1507.3	1598.6	2047.7	2428.4	2371.3	2371.3	3269.5	4910.0	3589.2	3437.0	3452.2
55°	532.9	601.4	1096.2	1670.9	2123.9	2165.7	2584.4	4369.5	3558.8	3490.3	3505.5
57.5°	133.2	163.7	334.9	723.2	1431.1	1964.0	2310.4	3608.3	2702.4	2607.2	2645.3
60°	156.1	152.2	209.3	232.2	555.7	1552.9	2082.0	2436.0	1743.2	1632.9	1651.9
62.5°	167.5	156.1	163.7	205.5	91.3	761.2	1659.5	1450.2	719.4	532.9	563.3
65°	148.4	140.8	129.4	190.3	64.7	140.8	978.2	426.3	102.8	163.7	148.4
67.5°	99.0	102.8	106.6	152.2	60.9	60.9	129.4	106.6	72.3	148.4	129.4
70°	57.1	60.9	72.3	91.3	60.9	49.5	57.1	87.5	60.9	148.4	129.4
72.5°	34.3	34.3	34.3	38.1	60.9	41.9	38.1	72.3	53.3	137.0	129.4
75°	26.6	26.6	26.6	22.8	53.3	26.6	26.6	57.1	45.7	99.0	99.0
77.5°	22.8	22.8	22.8	19.0	30.4	22.8	22.8	41.9	41.9	49.5	57.1
80°	15.2	15.2	15.2	15.2	19.0	19.0	15.2	22.8	19.0	22.8	26.6
82.5°	7.6	11.4	11.4	7.6	11.4	11.4	11.4	15.2	11.4	15.2	15.2
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	7.6	3.8	3.8	7.6
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: P980977  
 CATALOG NUMBER: NFFLD-C25-7050-66

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6	4761.6
2.5°	4757.7	4776.8	4803.4	4845.3	4860.5	4887.2	4910.0	4929.0	4929.0	4921.4
5°	4818.6	4871.9	4944.3	5009.0	5031.8	5058.4	5069.9	5088.9	5085.1	5081.3
7.5°	4871.9	4955.7	5031.8	5077.5	5069.9	5035.6	5012.8	4982.3	4970.9	4978.5
10°	4913.8	4989.9	5024.2	4993.7	4902.4	4822.5	4719.7	4651.2	4616.9	4628.3
12.5°	4929.0	4955.7	4925.2	4757.7	4643.6	4567.4	4483.7	4438.0	4419.0	4422.8
15°	4932.8	4871.9	4704.5	4578.9	4495.1	4400.0	4331.5	4289.6	4289.6	4293.4
17.5°	4852.9	4704.5	4559.8	4464.7	4346.7	4247.7	4209.7	4194.4	4099.3	4114.5
20°	4780.6	4567.4	4487.5	4339.1	4198.2	4133.5	3912.8	3889.9	3893.7	3897.5
22.5°	4628.3	4468.5	4396.2	4202.0	4042.2	3863.3	3832.8	3810.0	3813.8	3813.8
25°	4419.0	4327.6	4228.7	4027.0	3832.8	3798.6	3775.7	3745.3	3730.1	3733.9
27.5°	4301.0	4186.8	4004.1	3832.8	3707.2	3722.5	3695.8	3650.1	3650.1	3654.0
30°	4152.6	4042.2	3798.6	3596.9	3608.3	3631.1	3566.4	3543.6	3532.2	3532.2
32.5°	3969.9	3817.6	3604.5	3414.2	3482.7	3475.1	3395.1	3402.7	3410.4	3402.7
35°	3832.8	3634.9	3456.0	3353.3	3326.6	3296.2	3254.3	3280.9	3292.4	3284.7
37.5°	3798.6	3562.6	3376.1	3303.8	3201.0	3143.9	3155.3	3182.0	3197.2	3193.4
40°	3787.2	3490.3	3307.6	3231.5	3094.4	3045.0	3060.2	3113.5	3132.5	3128.7
42.5°	3771.9	3440.8	3265.7	3174.4	2984.1	2949.8	3022.1	3071.6	3075.4	3071.6
45°	3692.0	3387.5	3239.1	3056.4	2816.6	2858.5	2949.8	2976.4	2930.8	2911.7
47.5°	3505.5	3288.6	3159.1	2911.7	2679.6	2759.5	2770.9	2481.6	2314.2	2276.1
50°	3452.2	3292.4	3067.8	2740.5	2595.8	2675.8	2177.1	1663.3	1454.0	1412.1
52.5°	3437.0	3254.3	3102.1	2561.6	2565.4	2257.1	1374.0	814.5	654.7	624.2
55°	3475.1	3421.8	3159.1	2455.0	2386.5	1469.2	639.4	384.4	395.8	384.4
57.5°	2622.5	2862.3	3227.7	2287.5	1743.2	708.0	403.5	373.0	346.4	338.8
60°	1636.7	1865.0	2363.6	1967.8	894.5	422.5	411.1	346.4	334.9	331.1
62.5°	540.5	829.8	1355.0	1294.1	247.4	418.7	414.9	308.3	308.3	308.3
65°	137.0	140.8	373.0	445.3	182.7	373.0	395.8	289.3	281.7	293.1
67.5°	118.0	106.6	197.9	175.1	152.2	258.8	346.4	277.9	262.6	262.6
70°	118.0	125.6	194.1	163.7	95.2	140.8	251.2	171.3	152.2	140.8
72.5°	110.4	121.8	171.3	148.4	64.7	68.5	110.4	57.1	53.3	45.7
75°	95.2	99.0	133.2	133.2	68.5	34.3	45.7	38.1	38.1	34.3
77.5°	64.7	49.5	76.1	95.2	49.5	22.8	19.0	19.0	19.0	15.2
80°	34.3	19.0	19.0	15.2	19.0	19.0	11.4	15.2	15.2	11.4
82.5°	19.0	11.4	11.4	7.6	7.6	11.4	7.6	7.6	7.6	7.6
85°	7.6	7.6	3.8	3.8	3.8	7.6	3.8	3.8	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
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: SP1-2501-319-11

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

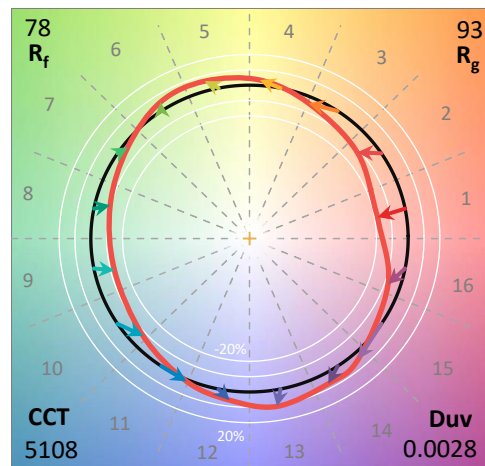
**Test Information**

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**

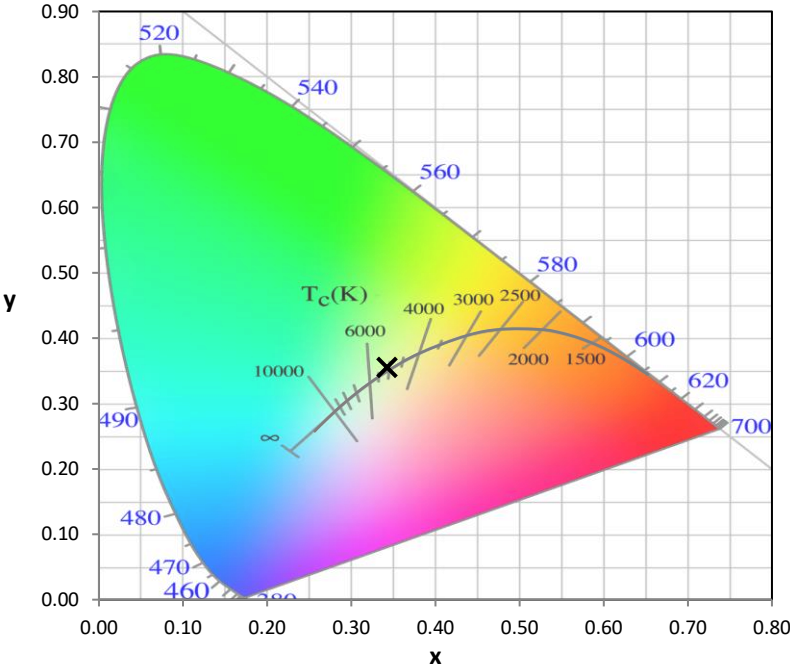
Stabilization Time: 48M  
 Operation Time: 1H 48M  
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2501-319-11

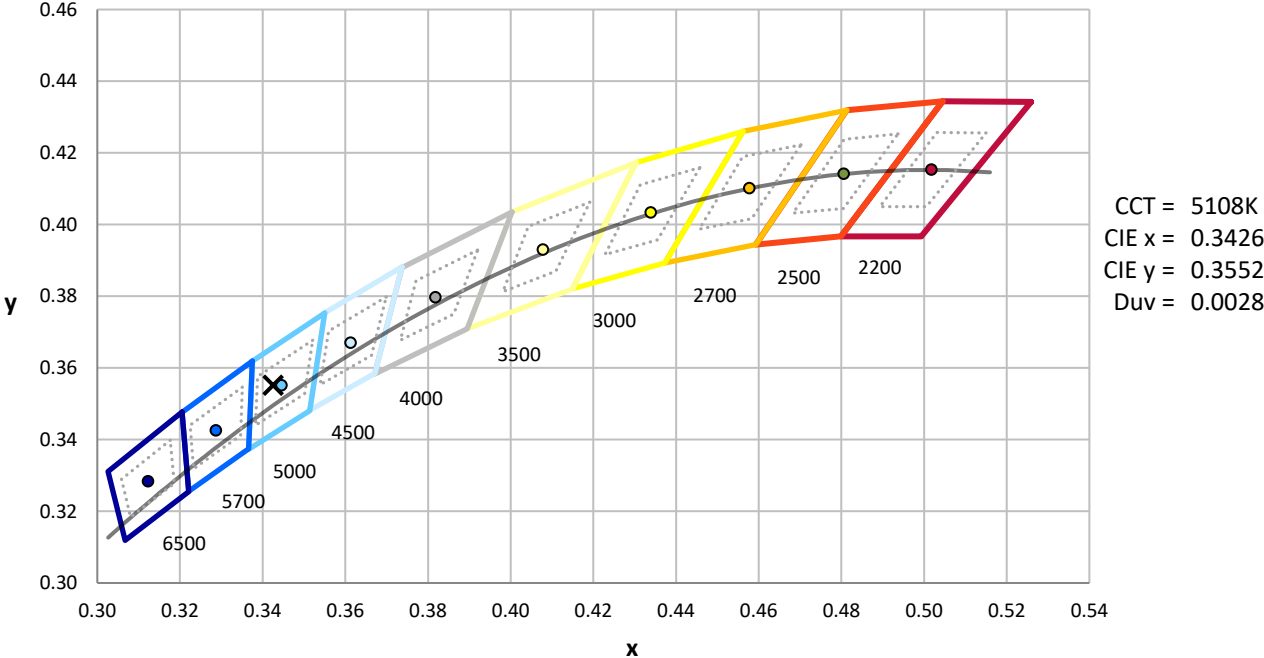
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-319-11

**CIE 1931 Chromaticity Diagram**



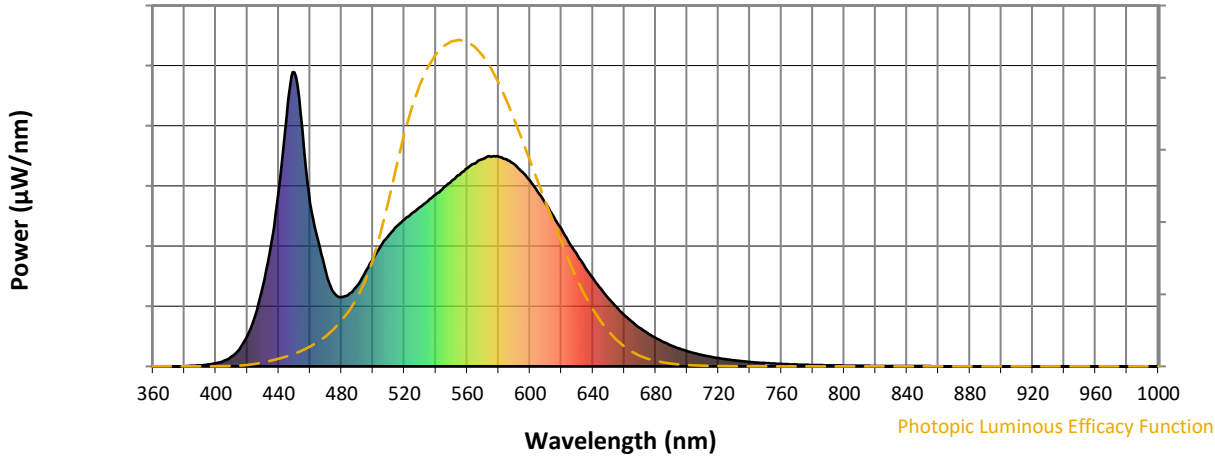
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-11

**Photopic Flux vs. Wavelength**

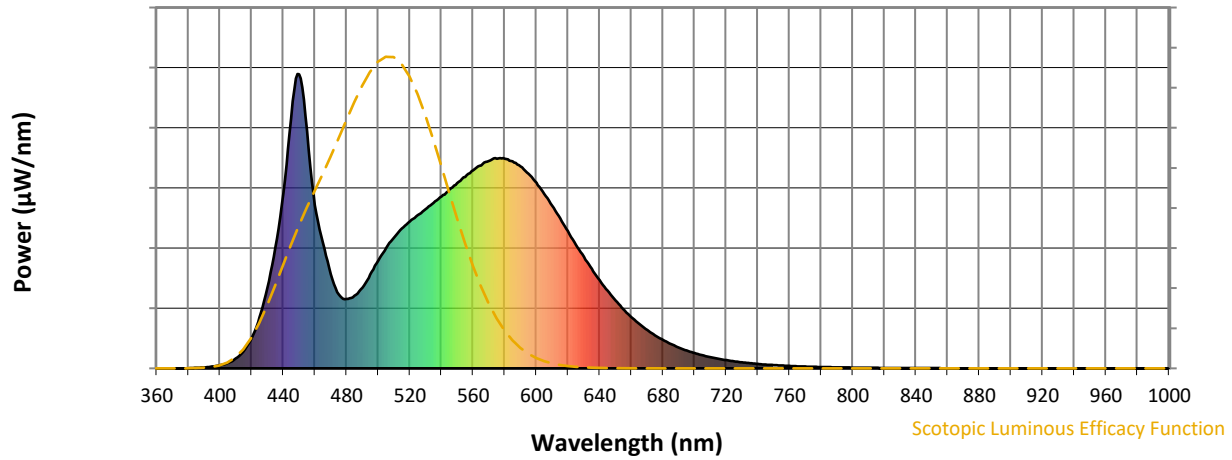


**Photopic Lumens: NR**

$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens $(\phi/\text{nm})$
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**



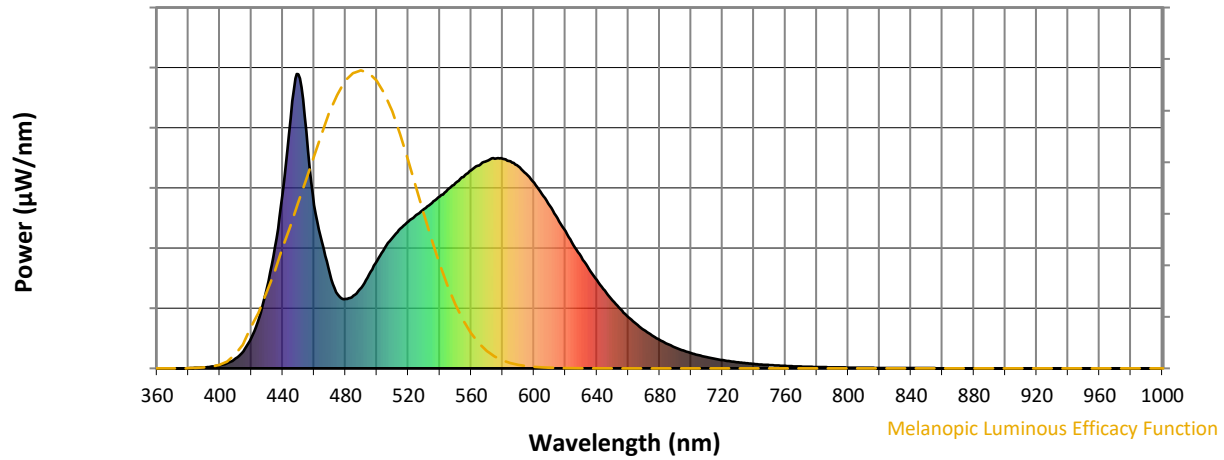
**Scotopic Lumens: NR**

**S/P: 1.89**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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**



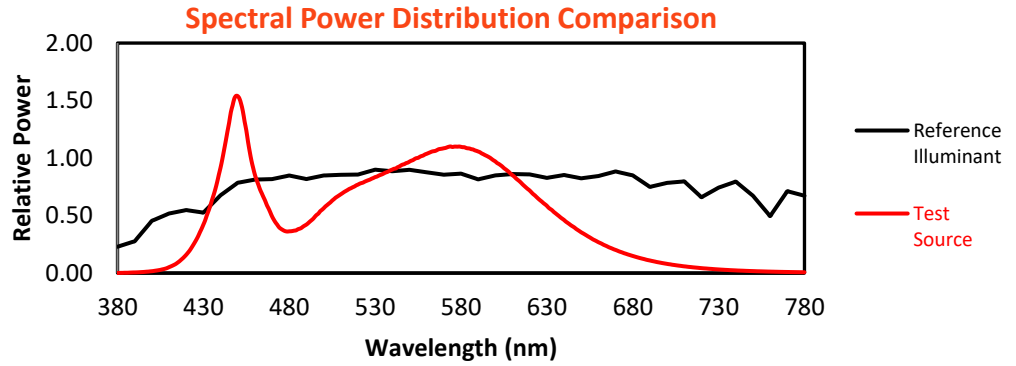
**Melanopic Lumens: NR**

**M/P: 3.96**

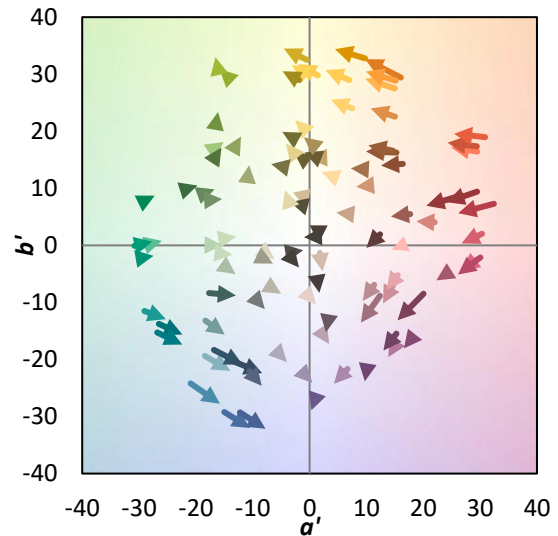
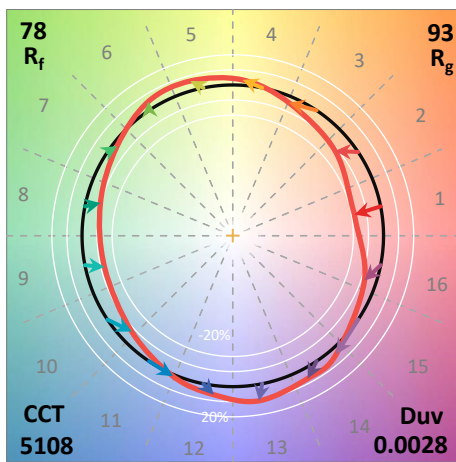
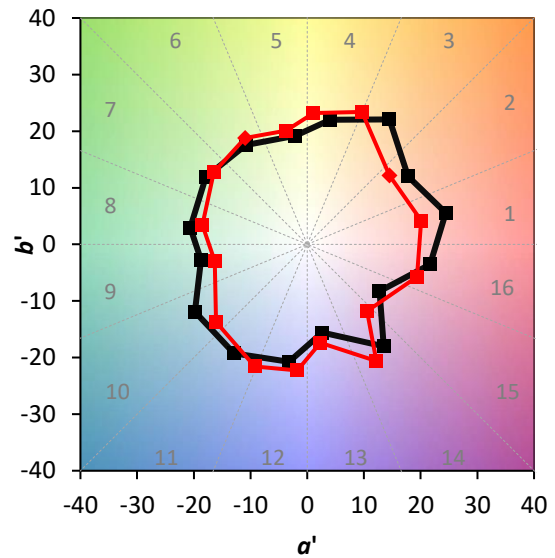
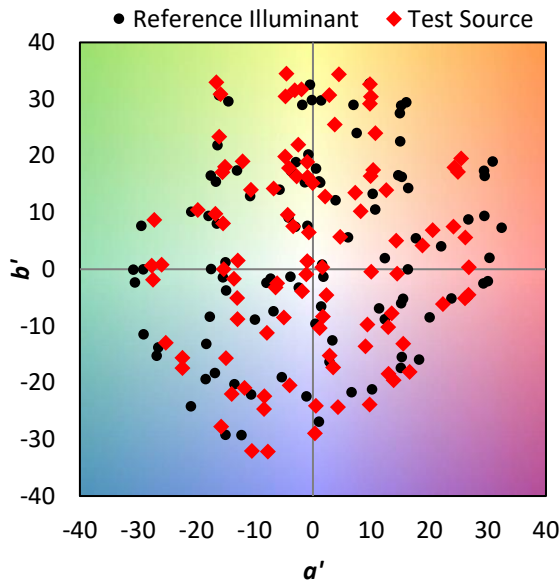
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	274	NR	620	466	NR	750	11	NR	880	0	NR
365	0	NR	495	319	NR	625	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**

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

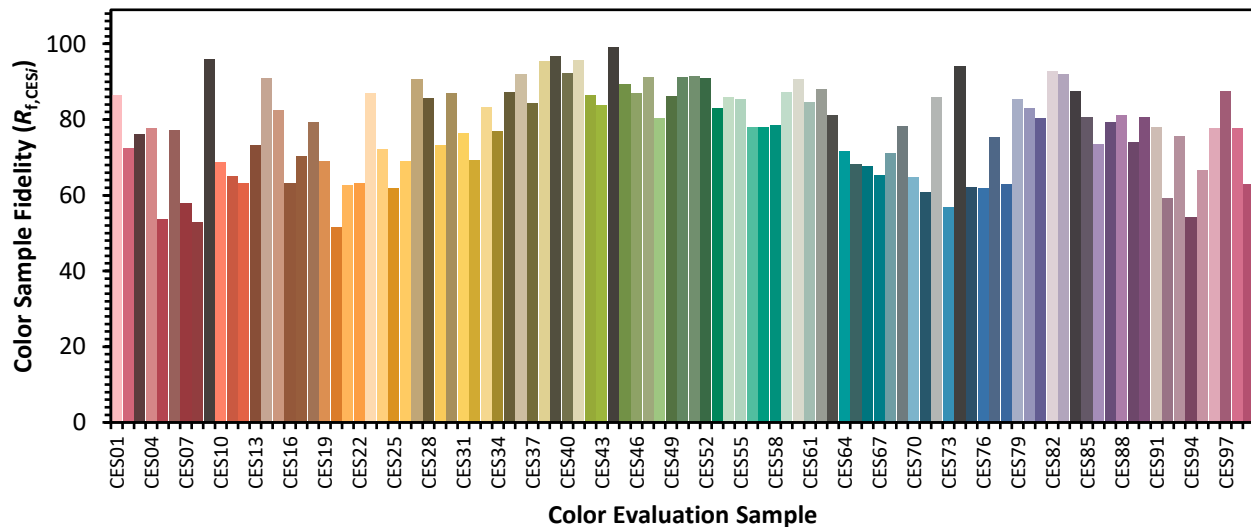


**Color Vector Graphics**

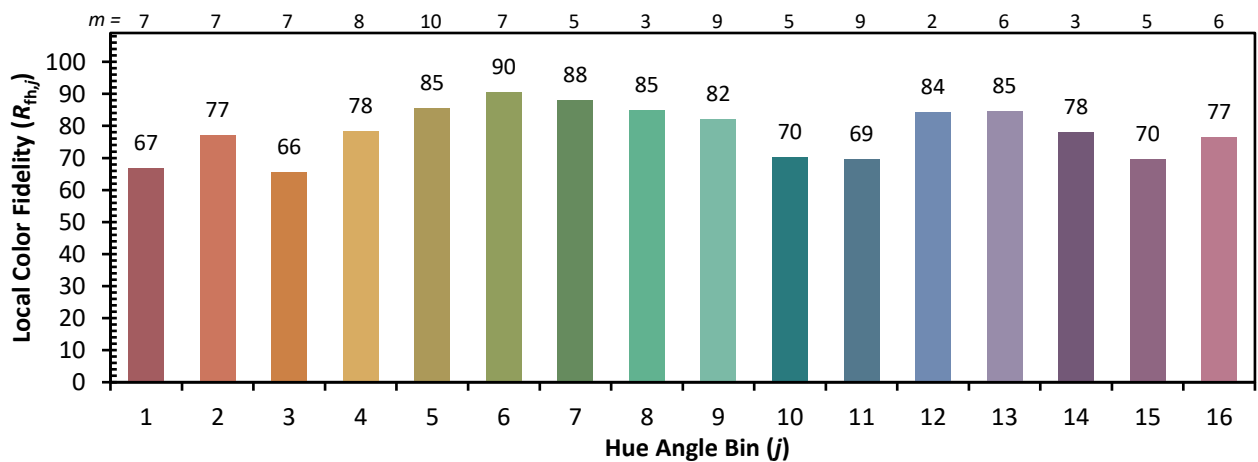
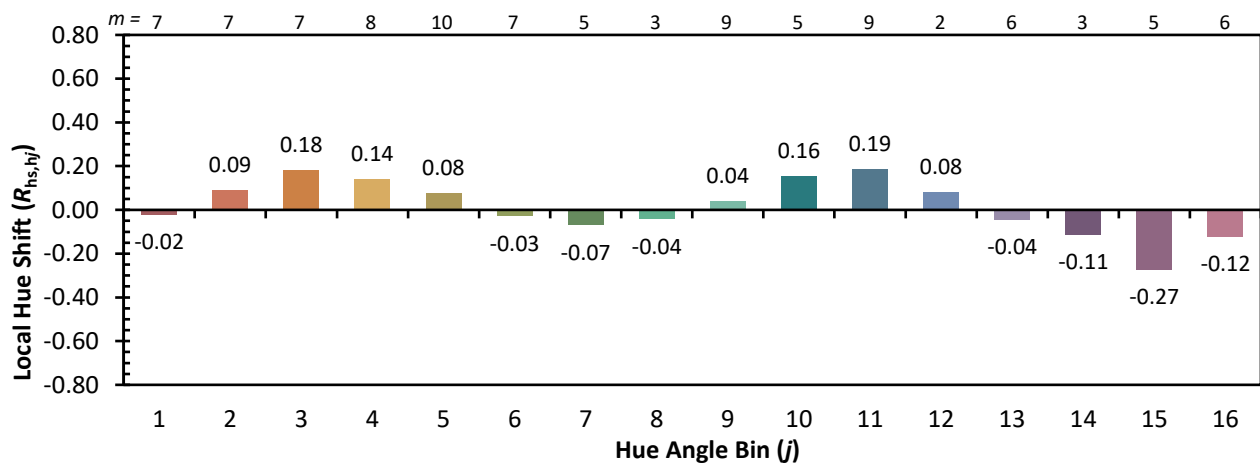
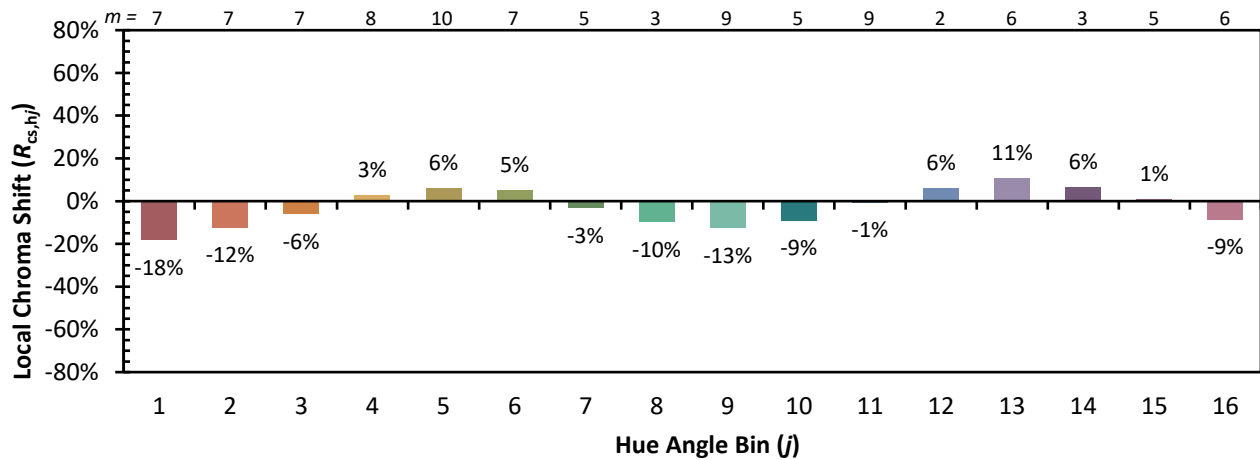


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

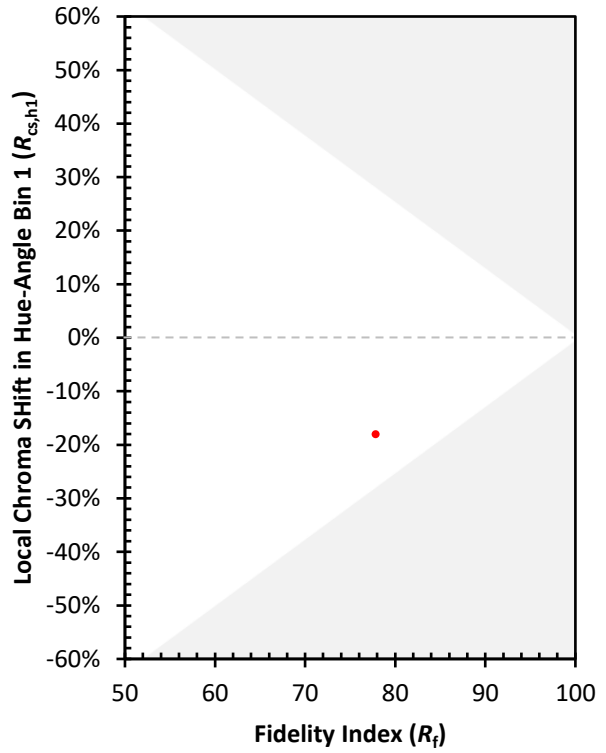
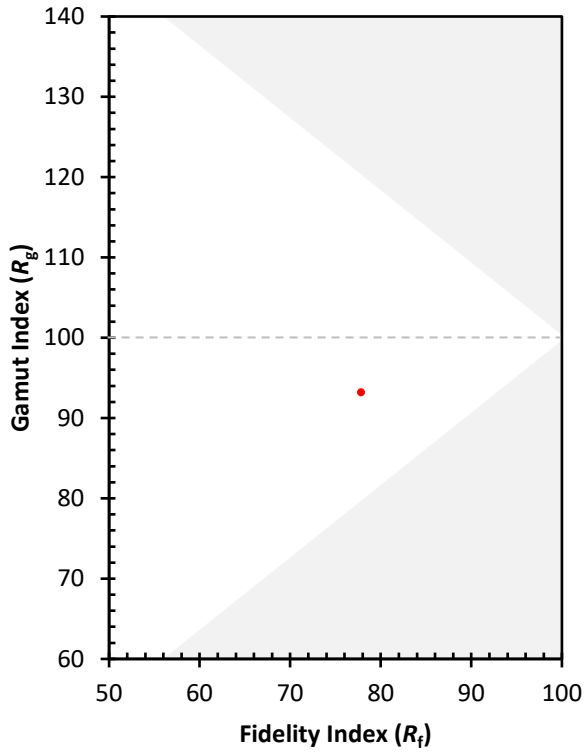
CES01 = 85	CES26 = 69	CES51 = 92	CES76 = 62
CES02 = 60	CES27 = 91	CES52 = 91	CES77 = 75
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 63
CES04 = 69	CES29 = 73	CES54 = 86	CES79 = 85
CES05 = 46	CES30 = 87	CES55 = 85	CES80 = 83
CES06 = 50	CES31 = 76	CES56 = 78	CES81 = 80
CES07 = 39	CES32 = 69	CES57 = 78	CES82 = 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)