

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: P980951

Luminaire Tested: **NFFLD-L-C150-7027-66**

Issue Date: 04/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P980951  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NFFLD-L-C150-7027-66  
Description: LUMARK NIGHT FALCON LARGE SIZE 320W 70CRI 2700K LED FIXTURE NEMA 6  
Light Source: (4) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45661.9 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.67' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

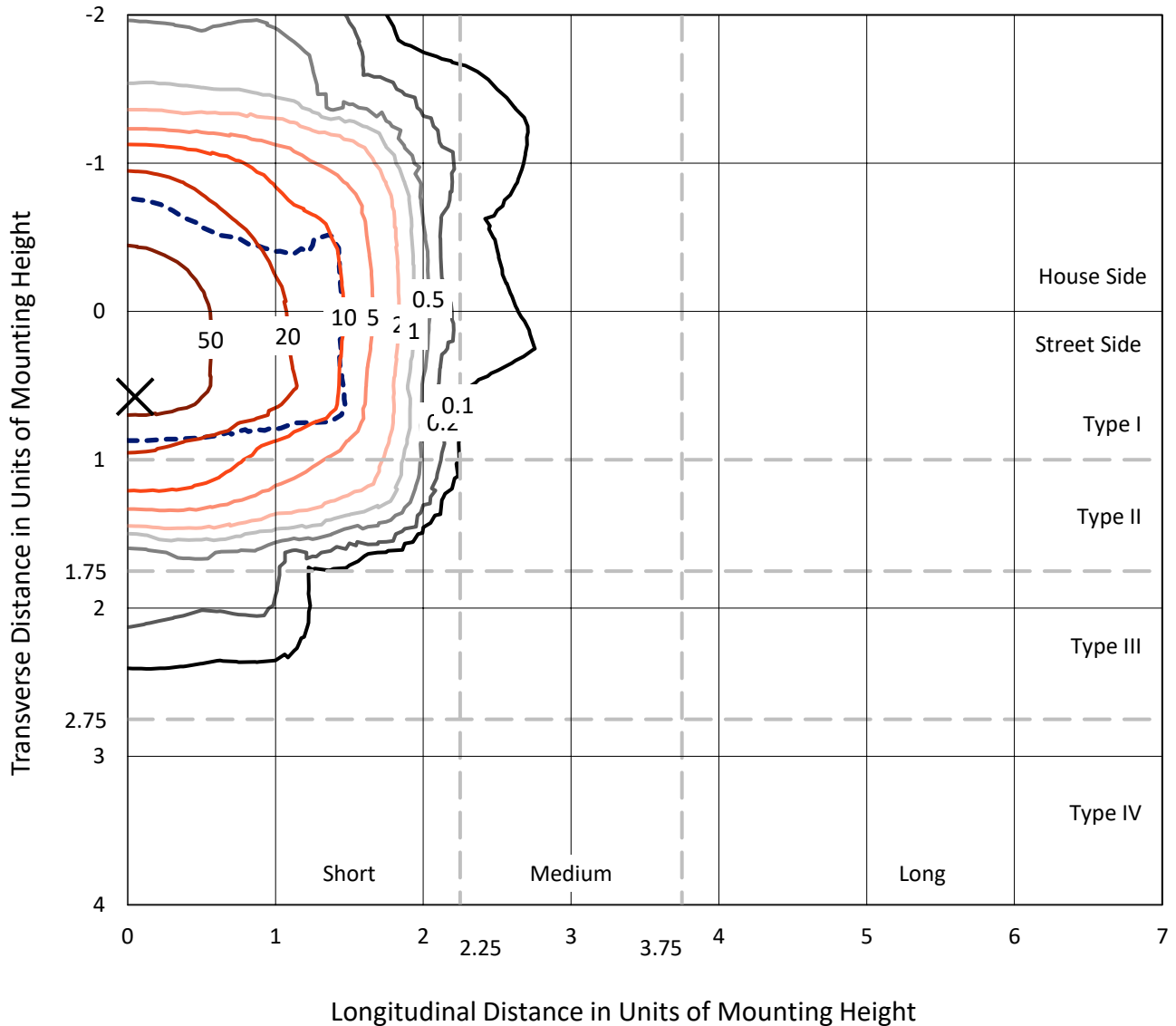
Input Watts (W): 324.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 2.79%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

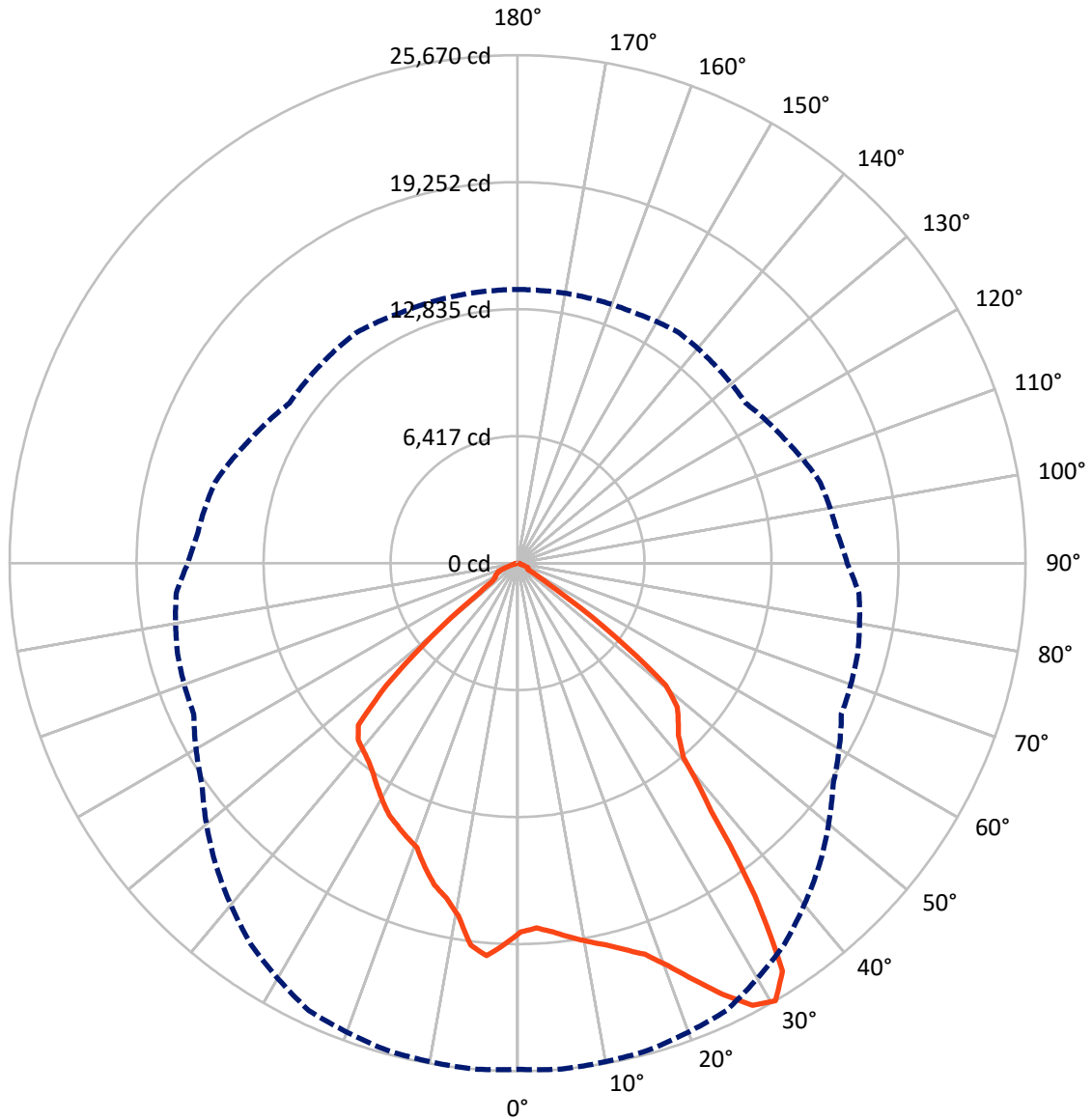
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 84.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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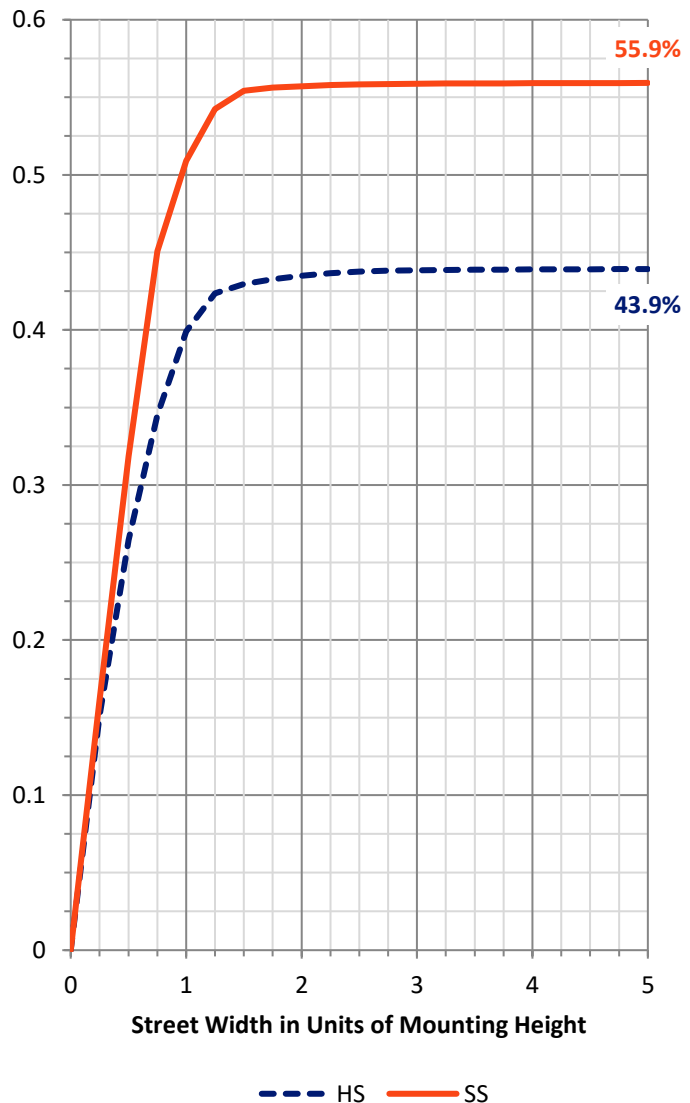
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20195.8	0.0	20195.8
	% Fixture	44.2	0.0	44.2
<b>Street Side</b>	Lumens	25466.1	0.0	25466.1
	% Fixture	55.8	0.0	55.8
<b>Total</b>	Lumens	45661.9	0.0	45661.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1823.2	4.0
10°-20°	5281.5	11.6
20°-30°	8416.5	18.4
30°-40°	10522.0	23.0
40°-50°	10325.7	22.6
50°-60°	7382.2	16.2
60°-70°	1633.3	3.6
70°-80°	250.9	0.5
80°-90°	26.5	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°	45661.9	100.0
0°-180°	45661.9	100.0



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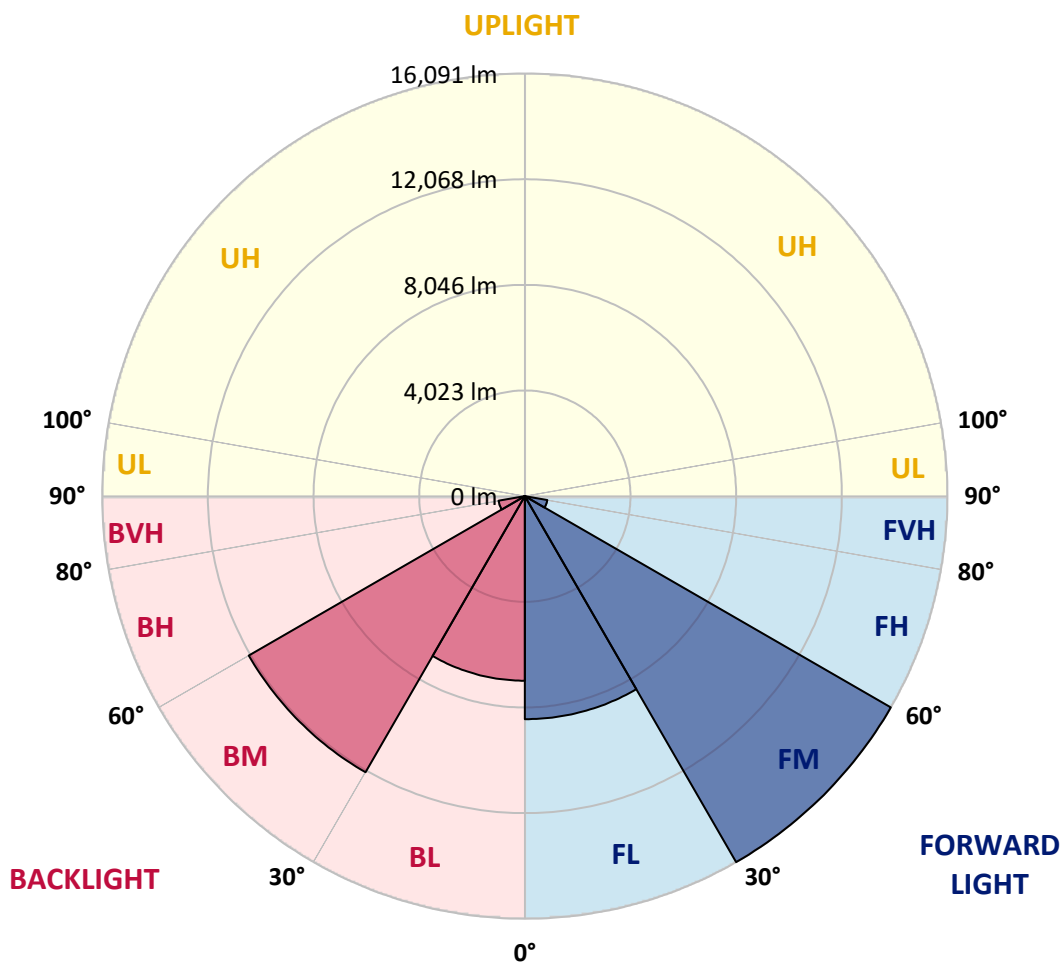
CATALOG NUMBER: NFFLD-L-C150-7027-66

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8492.7	18.6			
FM (30°-60°)	16091.2	35.2			
FH (60°-80°)	868.8	1.9			G1/1800
FVH (80°-90°)	13.4	0.0			G1/100
BL (0°-30°)	7028.5	15.4	B5		
BM (30°-60°)	12138.7	26.6	B5		
BH (60°-80°)	1015.5	2.2	B3/2500		G3/2500
BVH (80°-90°)	13.1	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6
2.5°	18429.0	18458.8	18488.6	18533.3	18592.9	18622.7	18592.9	18563.1	18548.2	18578.0	18592.9
5°	18682.3	18727.0	18741.9	18771.7	18801.5	18771.7	18756.8	18727.0	18712.1	18727.0	18771.7
7.5°	19054.8	19084.6	19069.7	19054.8	19039.9	18935.6	18831.3	18786.6	18786.6	18831.3	18950.5
10°	19382.5	19442.1	19367.6	19308.0	19203.7	19039.9	18861.1	18756.8	18786.6	18876.0	19025.0
12.5°	19799.7	19799.7	19725.2	19665.6	19427.2	19233.5	18995.2	18831.3	18831.3	18995.2	19159.0
15°	20306.2	20261.5	20231.7	20067.8	19784.8	19471.9	19173.9	18935.6	18890.9	19144.1	19248.4
17.5°	20946.8	20782.9	20708.5	20425.4	20038.0	19635.8	19233.5	19039.9	18905.8	19173.9	19054.8
20°	21825.8	21706.6	21468.3	21021.3	20231.7	19710.3	19233.5	18980.3	18876.0	19025.0	18905.8
22.5°	22958.1	22883.6	22347.3	21781.1	20738.3	19769.9	19159.0	18816.4	18786.6	18712.1	18458.8
25°	24343.6	24149.9	23598.7	22794.2	21498.1	20350.9	19144.1	18518.4	18414.1	18220.5	17773.5
27.5°	25520.6	25312.0	24641.6	23926.5	22540.9	21215.0	19263.3	18160.9	18041.7	17907.6	17356.4
30°	25580.2	25669.5	25490.8	24954.4	23509.3	21572.5	19471.9	18056.6	17788.4	17311.7	16656.2
32.5°	24373.4	24582.0	25014.0	25207.7	24239.3	22004.6	19650.7	18101.3	17609.6	16462.5	15926.1
35°	20246.6	20663.8	22436.6	24105.2	24447.9	22630.3	19799.7	18101.3	17550.0	15851.7	15434.5
37.5°	15553.7	15896.3	17401.1	20425.4	23524.2	23017.7	20127.4	17997.0	17475.6	15896.3	15330.2
40°	12708.1	12901.8	13557.3	15613.3	20276.4	22377.1	20455.2	18116.2	17252.1	15926.1	15389.8
42.5°	11933.4	11918.5	11784.5	12544.3	15464.3	20499.9	20678.7	18414.1	16879.6	15732.5	15285.5
45°	11412.0	11382.2	11263.0	11412.0	12231.4	16775.3	20514.8	18950.5	16417.8	15047.2	14749.2
47.5°	10845.9	10860.8	10816.1	10875.7	10726.7	12737.9	19591.1	19173.9	15628.2	13900.0	13795.7
50°	9490.1	9713.6	10309.5	10369.1	9981.8	10279.7	16775.3	19069.7	15062.0	13572.2	13482.8
52.5°	5899.7	6257.2	8015.2	9505.0	9281.6	9281.6	12797.5	19218.6	14049.0	13453.0	13512.6
55°	2085.7	2353.9	4290.7	6540.3	8313.2	8477.1	10115.9	17103.1	13929.8	13661.6	13721.2
57.5°	521.4	640.6	1311.0	2830.7	5601.7	7687.5	9043.2	14123.5	10577.7	10205.2	10354.2
60°	610.8	595.9	819.4	908.8	2175.1	6078.5	8149.3	9534.8	6823.4	6391.3	6465.8
62.5°	655.5	610.8	640.6	804.5	357.6	2979.6	6495.6	5676.2	2815.8	2085.7	2204.9
65°	581.0	551.2	506.5	744.9	253.3	551.2	3828.8	1668.6	402.3	640.6	581.0
67.5°	387.4	402.3	417.1	595.9	238.4	238.4	506.5	417.1	283.1	581.0	506.5
70°	223.5	238.4	283.1	357.6	238.4	193.7	223.5	342.7	238.4	581.0	506.5
72.5°	134.1	134.1	134.1	149.0	238.4	163.9	149.0	283.1	208.6	536.3	506.5
75°	104.3	104.3	104.3	89.4	208.6	104.3	104.3	223.5	178.8	387.4	387.4
77.5°	89.4	89.4	89.4	74.5	119.2	89.4	89.4	163.9	163.9	193.7	223.5
80°	59.6	59.6	59.6	59.6	74.5	74.5	59.6	89.4	74.5	89.4	104.3
82.5°	29.8	44.7	44.7	29.8	44.7	44.7	44.7	59.6	44.7	59.6	59.6
85°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	29.8	14.9	14.9	29.8
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°	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6	18637.6
2.5°	18622.7	18697.2	18801.5	18965.4	19025.0	19129.2	19218.6	19293.1	19293.1	19263.3
5°	18861.1	19069.7	19352.7	19606.0	19695.4	19799.7	19844.4	19918.9	19904.0	19889.1
7.5°	19069.7	19397.4	19695.4	19874.2	19844.4	19710.3	19620.9	19501.7	19457.0	19486.8
10°	19233.5	19531.5	19665.6	19546.4	19188.8	18876.0	18473.7	18205.6	18071.5	18116.2
12.5°	19293.1	19397.4	19278.2	18622.7	18175.8	17877.8	17550.0	17371.3	17296.8	17311.7
15°	19308.0	19069.7	18414.1	17922.5	17594.7	17222.3	16954.1	16790.2	16790.2	16805.1
17.5°	18995.2	18414.1	17848.0	17475.6	17013.7	16626.4	16477.4	16417.8	16045.3	16104.9
20°	18712.1	17877.8	17564.9	16983.9	16432.7	16179.4	15315.3	15225.9	15240.8	15255.7
22.5°	18116.2	17490.5	17207.4	16447.6	15821.9	15121.6	15002.5	14913.1	14928.0	14928.0
25°	17296.8	16939.2	16551.9	15762.3	15002.5	14868.4	14779.0	14659.8	14600.2	14615.1
27.5°	16834.9	16388.0	15672.9	15002.5	14510.8	14570.4	14466.1	14287.3	14287.3	14302.2
30°	16253.9	15821.9	14868.4	14078.8	14123.5	14212.9	13959.6	13870.2	13825.5	13825.5
32.5°	15538.8	14942.9	14108.6	13363.7	13631.8	13602.0	13289.2	13319.0	13348.8	13319.0
35°	15002.5	14227.8	13527.5	13125.3	13021.0	12901.8	12737.9	12842.2	12886.9	12857.1
37.5°	14868.4	13944.7	13214.7	12931.6	12529.4	12305.9	12350.6	12454.9	12514.5	12499.6
40°	14823.7	13661.6	12946.5	12648.5	12112.2	11918.5	11978.1	12186.7	12261.2	12246.3
42.5°	14764.1	13467.9	12782.6	12425.1	11680.2	11546.1	11829.1	12022.8	12037.7	12022.8
45°	14451.2	13259.4	12678.3	11963.2	11024.6	11188.5	11546.1	11650.4	11471.6	11397.1
47.5°	13721.2	12872.0	12365.5	11397.1	10488.3	10801.2	10845.9	9713.6	9058.1	8909.1
50°	13512.6	12886.9	12007.9	10726.7	10160.6	10473.4	8521.8	6510.5	5691.1	5527.2
52.5°	13453.0	12737.9	12142.0	10026.5	10041.4	8834.6	5378.2	3188.2	2562.5	2443.3
55°	13602.0	13393.5	12365.5	9609.3	9341.2	5750.7	2502.9	1504.7	1549.4	1504.7
57.5°	10264.8	11203.4	12633.6	8953.8	6823.4	2771.1	1579.2	1460.0	1355.7	1325.9
60°	6406.2	7300.1	9251.8	7702.4	3501.1	1653.7	1609.0	1355.7	1311.0	1296.1
62.5°	2115.5	3247.8	5303.7	5065.4	968.4	1638.8	1623.9	1206.8	1206.8	1206.8
65°	536.3	551.2	1460.0	1743.1	715.1	1460.0	1549.4	1132.3	1102.5	1147.2
67.5°	461.8	417.1	774.7	685.3	595.9	1013.1	1355.7	1087.6	1028.0	1028.0
70°	461.8	491.6	759.8	640.6	372.5	551.2	983.3	670.4	595.9	551.2
72.5°	432.0	476.7	670.4	581.0	253.3	268.2	432.0	223.5	208.6	178.8
75°	372.5	387.4	521.4	521.4	268.2	134.1	178.8	149.0	149.0	134.1
77.5°	253.3	193.7	298.0	372.5	193.7	89.4	74.5	74.5	74.5	59.6
80°	134.1	74.5	74.5	59.6	74.5	74.5	44.7	59.6	59.6	44.7
82.5°	74.5	44.7	44.7	29.8	29.8	44.7	29.8	29.8	29.8	29.8
85°	29.8	29.8	14.9	14.9	14.9	29.8	14.9	14.9	14.9	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	14.9
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: SP1-2501-319-9

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7027-66

Data in this report applies to families of products including NFFLD-C55-7027-66

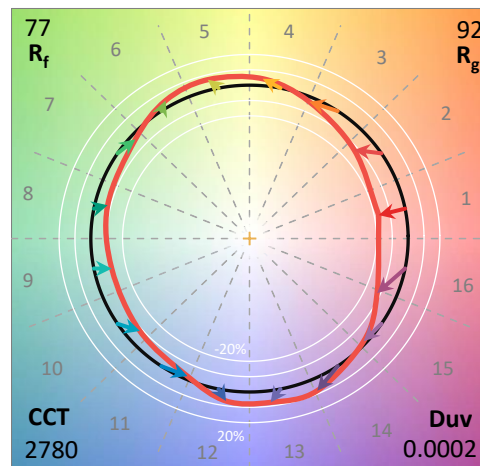
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2501-319-9  
 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-C55-7027-66**  
 Description: LUMARK NIGHT FALCON 16900LM NEMA 6

**Spectral Parameters**

CCT (K): 2780  
 CIE u': 0.2590  
 CIE v': 0.5260  
 Duv: 0.0002  
 CIE x: 0.4536  
 CIE y: 0.4095  
 CIE z: 0.1369  
 Peak Wavelength (nm): 597  
 Dominant Wavelength (nm): 583  
 Purity: 59.08593  
 Rf: 77.4  
 Rg: 92.5

CRI (Ra):	72.0		
R1:	68.2	R9:	-35.8
R2:	85.1	R10:	68.0
R3:	93.3	R11:	62.3
R4:	66.5	R12:	62.2
R5:	68.5	R13:	71.6
R6:	81.1	R14:	96.6
R7:	74.6	R15:	59.0
R8:	38.9		



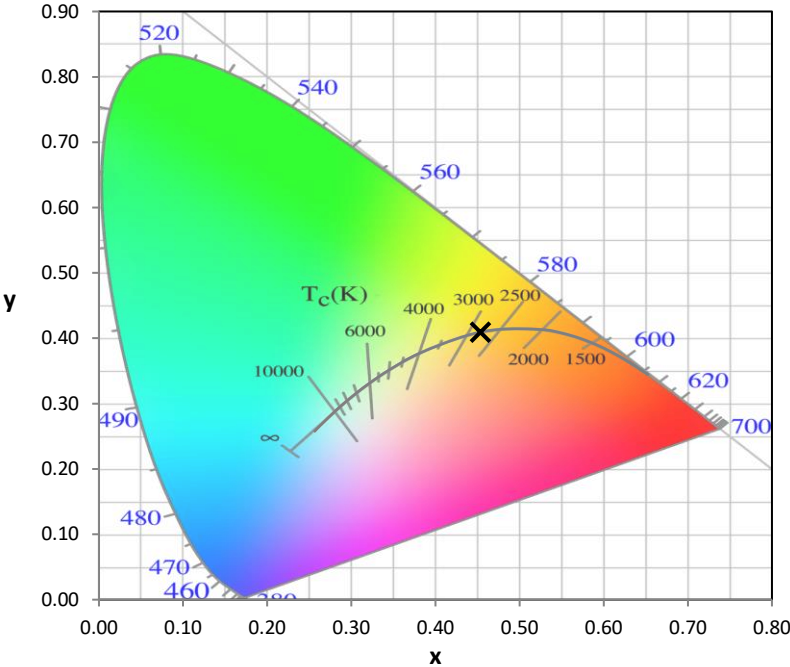
**Test Conditions**  
 Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.0

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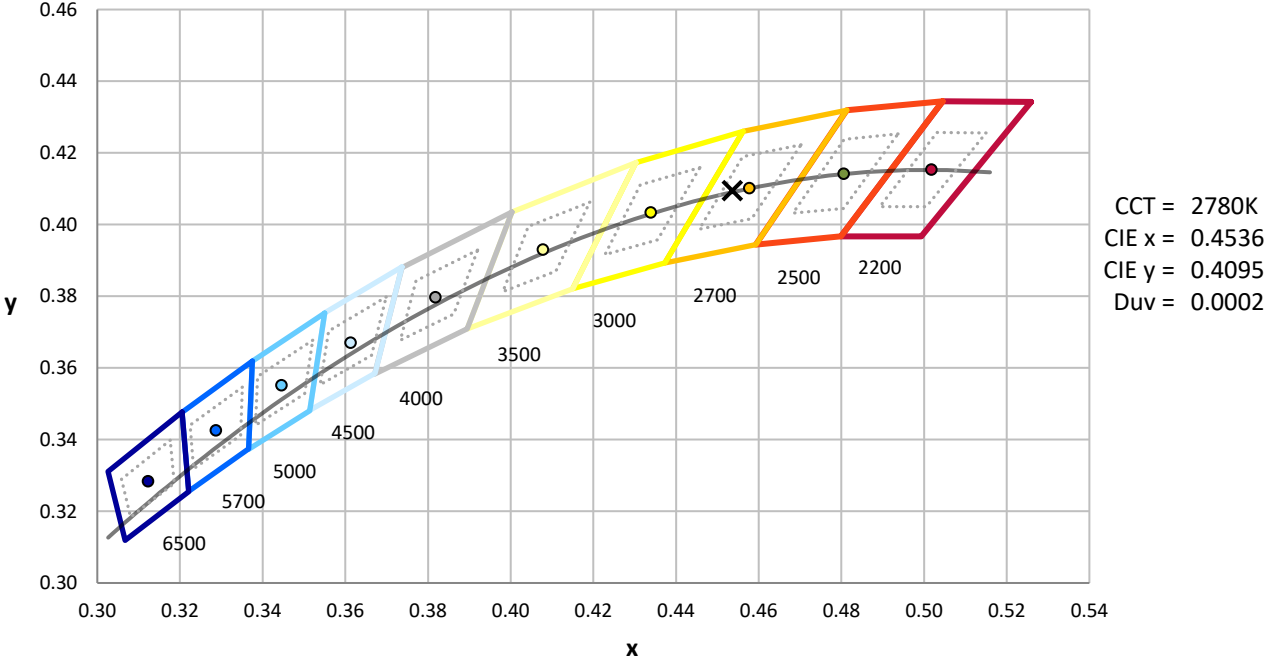
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



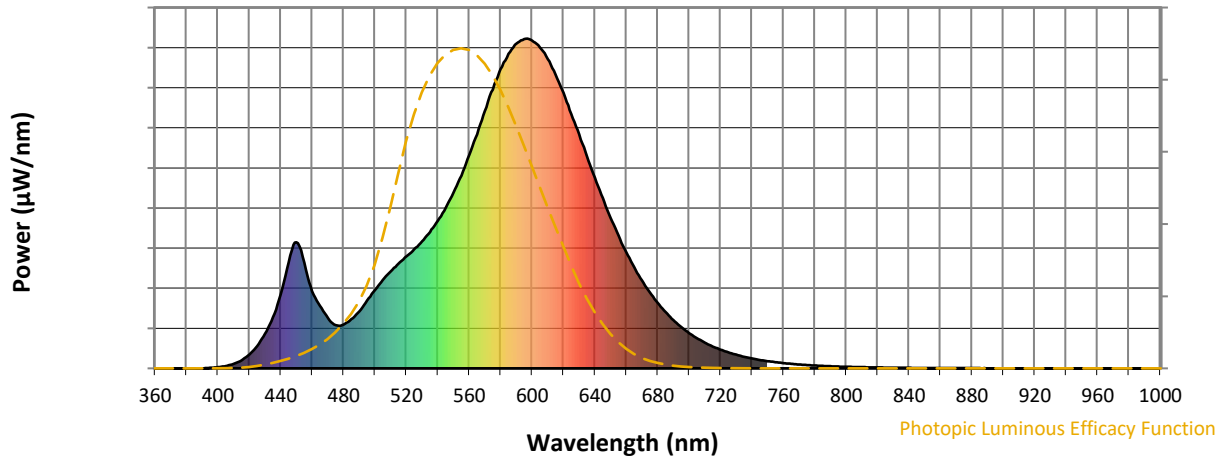
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

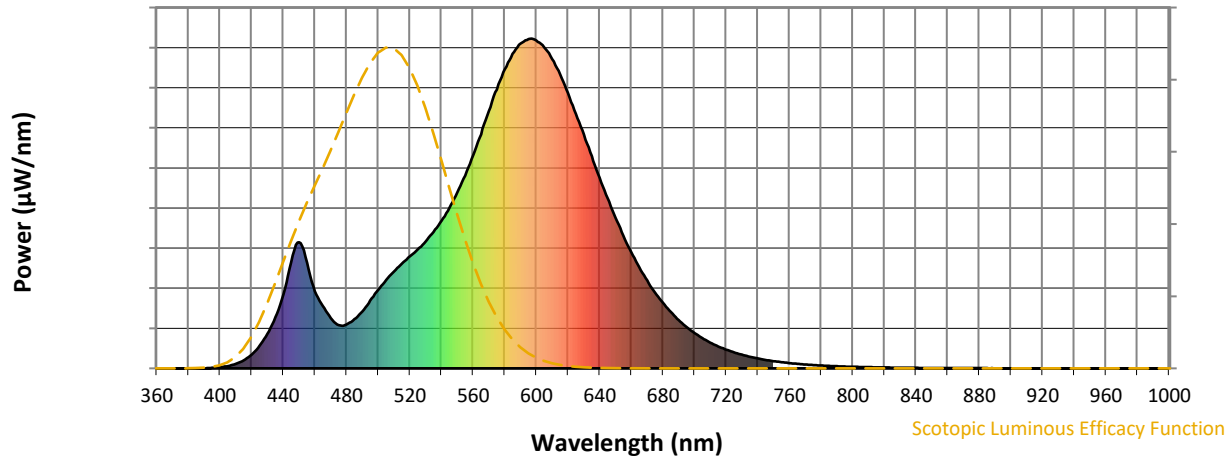


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	173	NR	620	836	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	771	NR	755	19	NR	885	1	NR
370	0	NR	500	238	NR	630	710	NR	760	16	NR	890	0	NR
375	0	NR	505	268	NR	635	643	NR	765	14	NR	895	0	NR
380	0	NR	510	294	NR	640	578	NR	770	12	NR	900	0	NR
385	0	NR	515	317	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	340	NR	650	456	NR	780	9	NR	910	0	NR
395	2	NR	525	361	NR	655	403	NR	785	8	NR	915	0	NR
400	4	NR	530	386	NR	660	352	NR	790	6	NR	920	0	NR
405	7	NR	535	413	NR	665	307	NR	795	6	NR	925	0	NR
410	14	NR	540	447	NR	670	266	NR	800	5	NR	930	0	NR
415	25	NR	545	487	NR	675	230	NR	805	4	NR	935	0	NR
420	42	NR	550	533	NR	680	199	NR	810	4	NR	940	0	NR
425	68	NR	555	585	NR	685	170	NR	815	3	NR	945	0	NR
430	104	NR	560	647	NR	690	147	NR	820	3	NR	950	0	NR
435	155	NR	565	710	NR	695	125	NR	825	2	NR	955	0	NR
440	224	NR	570	780	NR	700	107	NR	830	2	NR	960	0	NR
445	322	NR	575	846	NR	705	92	NR	835	2	NR	965	0	NR
450	382	NR	580	907	NR	710	78	NR	840	2	NR	970	0	NR
455	321	NR	585	954	NR	715	66	NR	845	1	NR	975	0	NR
460	234	NR	590	985	NR	720	57	NR	850	1	NR	980	0	NR
465	189	NR	595	999	NR	725	48	NR	855	1	NR	985	0	NR
470	152	NR	600	994	NR	730	41	NR	860	1	NR	990	0	NR
475	131	NR	605	973	NR	735	35	NR	865	1	NR	995	0	NR
480	133	NR	610	938	NR	740	30	NR	870	1	NR	1000	0	NR
485	150	NR	615	891	NR	745	26	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



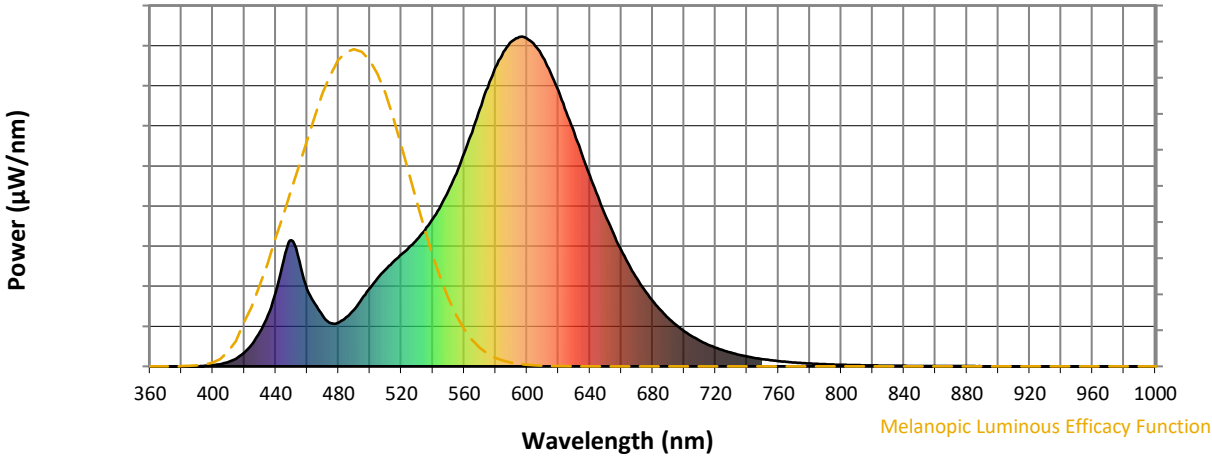
**Scotopic Lumens: NR**

**S/P: 1.17**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	173	NR	620	836	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	771	NR	755	19	NR	885	1	NR
370	0	NR	500	238	NR	630	710	NR	760	16	NR	890	0	NR
375	0	NR	505	268	NR	635	643	NR	765	14	NR	895	0	NR
380	0	NR	510	294	NR	640	578	NR	770	12	NR	900	0	NR
385	0	NR	515	317	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	340	NR	650	456	NR	780	9	NR	910	0	NR
395	2	NR	525	361	NR	655	403	NR	785	8	NR	915	0	NR
400	4	NR	530	386	NR	660	352	NR	790	6	NR	920	0	NR
405	7	NR	535	413	NR	665	307	NR	795	6	NR	925	0	NR
410	14	NR	540	447	NR	670	266	NR	800	5	NR	930	0	NR
415	25	NR	545	487	NR	675	230	NR	805	4	NR	935	0	NR
420	42	NR	550	533	NR	680	199	NR	810	4	NR	940	0	NR
425	68	NR	555	585	NR	685	170	NR	815	3	NR	945	0	NR
430	104	NR	560	647	NR	690	147	NR	820	3	NR	950	0	NR
435	155	NR	565	710	NR	695	125	NR	825	2	NR	955	0	NR
440	224	NR	570	780	NR	700	107	NR	830	2	NR	960	0	NR
445	322	NR	575	846	NR	705	92	NR	835	2	NR	965	0	NR
450	382	NR	580	907	NR	710	78	NR	840	2	NR	970	0	NR
455	321	NR	585	954	NR	715	66	NR	845	1	NR	975	0	NR
460	234	NR	590	985	NR	720	57	NR	850	1	NR	980	0	NR
465	189	NR	595	999	NR	725	48	NR	855	1	NR	985	0	NR
470	152	NR	600	994	NR	730	41	NR	860	1	NR	990	0	NR
475	131	NR	605	973	NR	735	35	NR	865	1	NR	995	0	NR
480	133	NR	610	938	NR	740	30	NR	870	1	NR	1000	0	NR
485	150	NR	615	891	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-319-9

Melanopic Flux vs. Wavelength



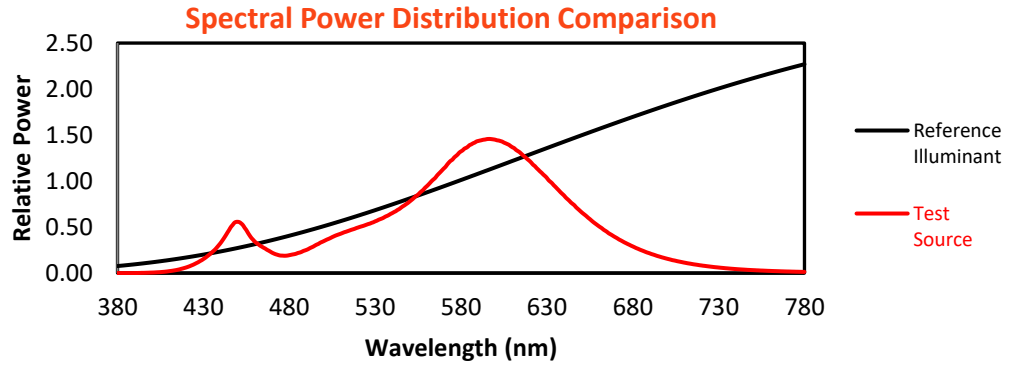
Melanopic Lumens: NR

M/P: 2.15

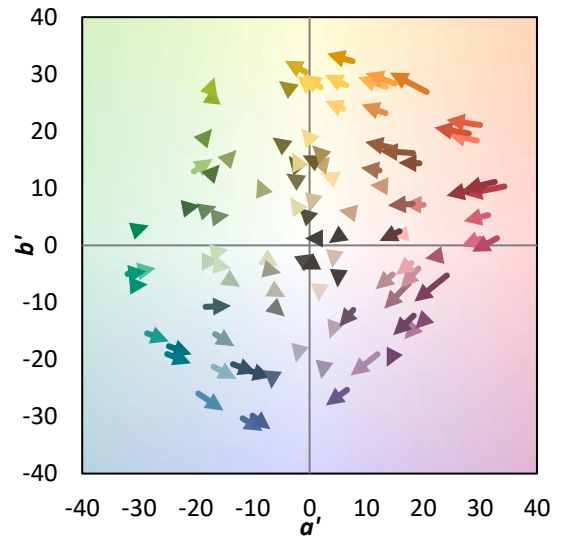
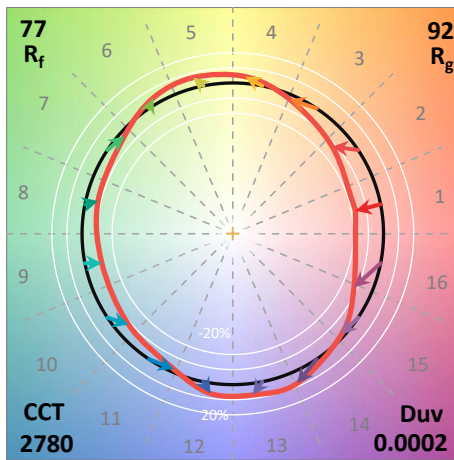
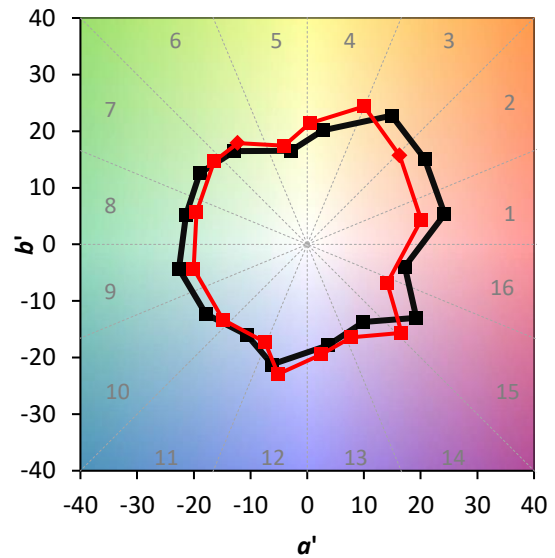
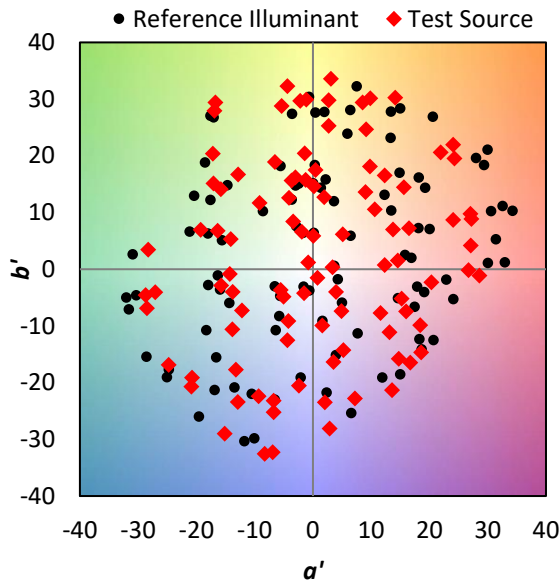
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	173	NR	620	836	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	771	NR	755	19	NR	885	1	NR
370	0	NR	500	238	NR	630	710	NR	760	16	NR	890	0	NR
375	0	NR	505	268	NR	635	643	NR	765	14	NR	895	0	NR
380	0	NR	510	294	NR	640	578	NR	770	12	NR	900	0	NR
385	0	NR	515	317	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	340	NR	650	456	NR	780	9	NR	910	0	NR
395	2	NR	525	361	NR	655	403	NR	785	8	NR	915	0	NR
400	4	NR	530	386	NR	660	352	NR	790	6	NR	920	0	NR
405	7	NR	535	413	NR	665	307	NR	795	6	NR	925	0	NR
410	14	NR	540	447	NR	670	266	NR	800	5	NR	930	0	NR
415	25	NR	545	487	NR	675	230	NR	805	4	NR	935	0	NR
420	42	NR	550	533	NR	680	199	NR	810	4	NR	940	0	NR
425	68	NR	555	585	NR	685	170	NR	815	3	NR	945	0	NR
430	104	NR	560	647	NR	690	147	NR	820	3	NR	950	0	NR
435	155	NR	565	710	NR	695	125	NR	825	2	NR	955	0	NR
440	224	NR	570	780	NR	700	107	NR	830	2	NR	960	0	NR
445	322	NR	575	846	NR	705	92	NR	835	2	NR	965	0	NR
450	382	NR	580	907	NR	710	78	NR	840	2	NR	970	0	NR
455	321	NR	585	954	NR	715	66	NR	845	1	NR	975	0	NR
460	234	NR	590	985	NR	720	57	NR	850	1	NR	980	0	NR
465	189	NR	595	999	NR	725	48	NR	855	1	NR	985	0	NR
470	152	NR	600	994	NR	730	41	NR	860	1	NR	990	0	NR
475	131	NR	605	973	NR	735	35	NR	865	1	NR	995	0	NR
480	133	NR	610	938	NR	740	30	NR	870	1	NR	1000	0	NR
485	150	NR	615	891	NR	745	26	NR	875	1	NR			

**Summary**

$R_f = 77.4$   
 $R_g = 92.5$   
 CIE  $R_a = 72.0$   
 $R_9 = -35.8$

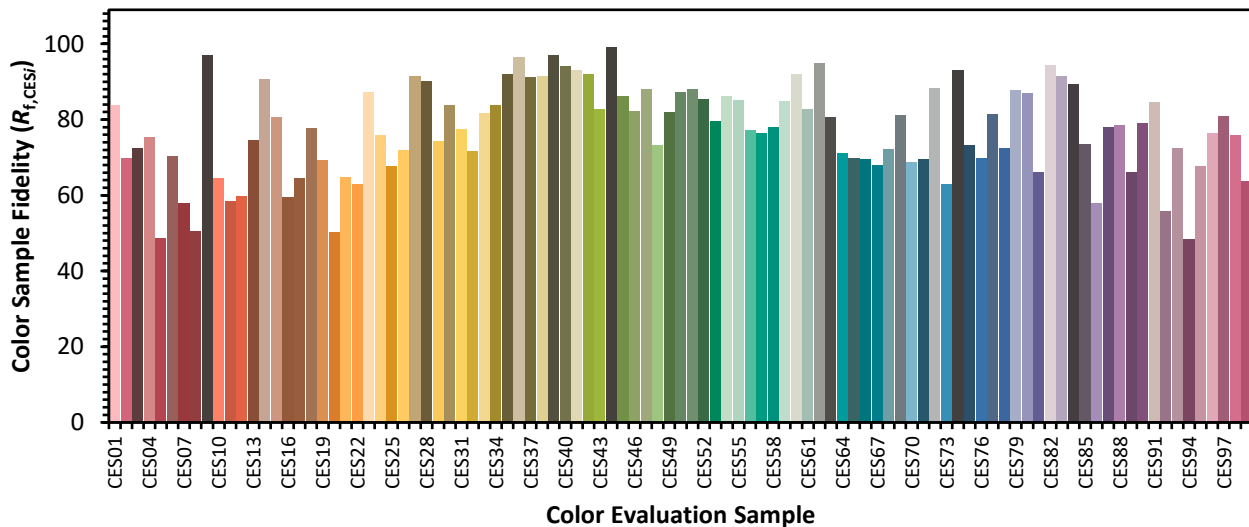


**Color Vector Graphics**

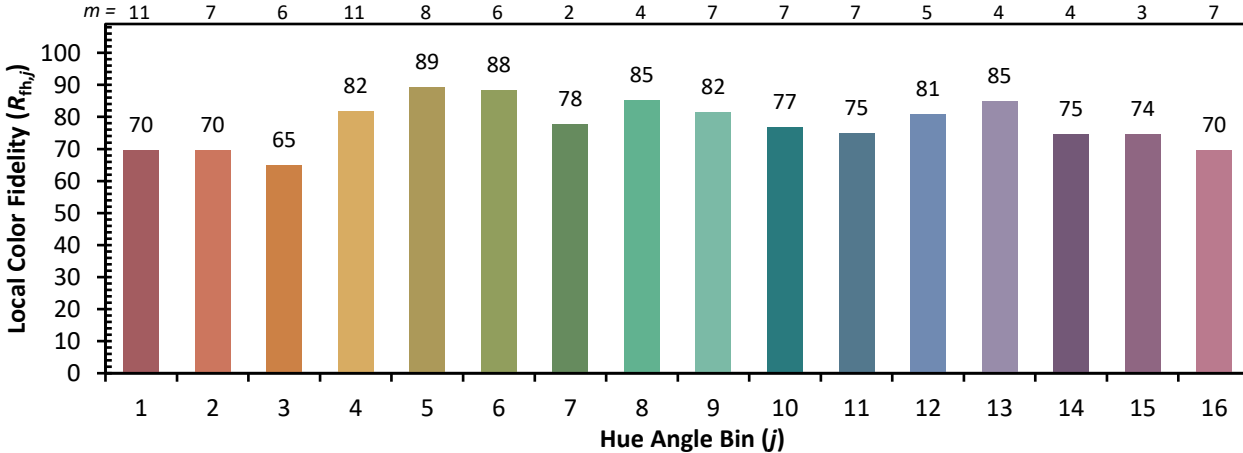
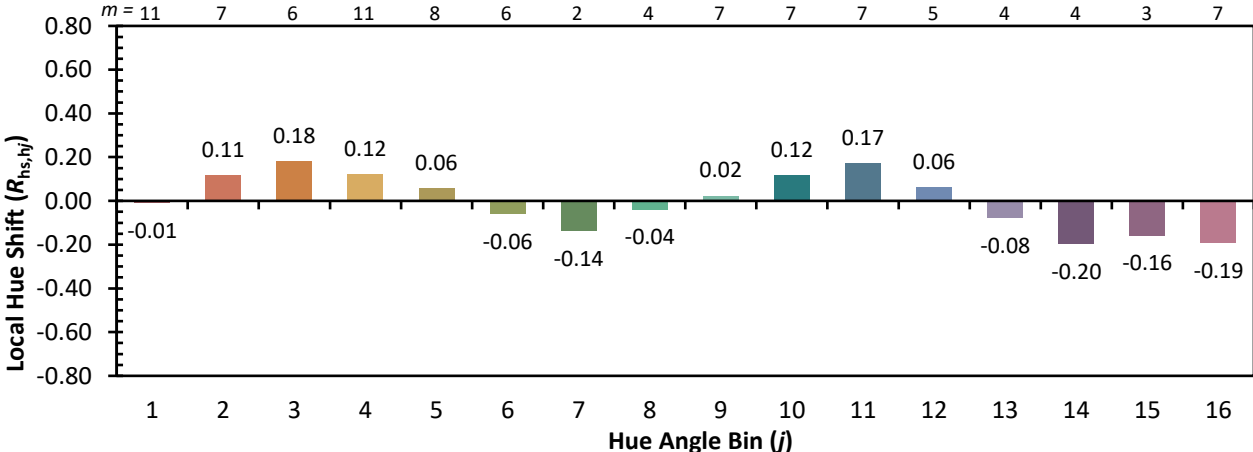
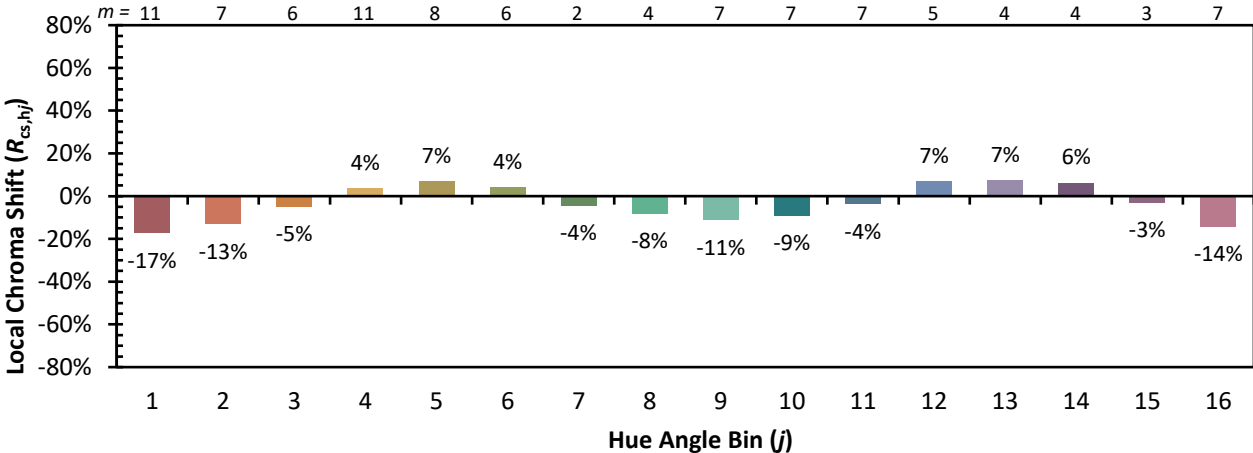


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

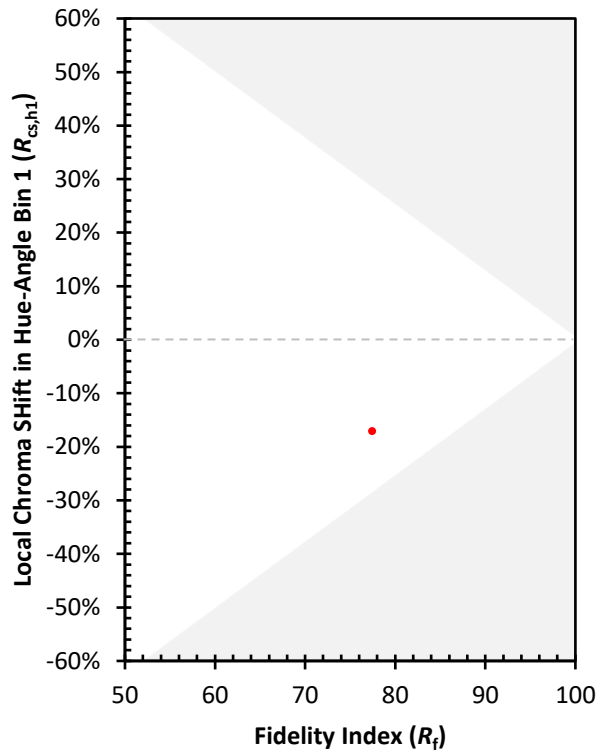
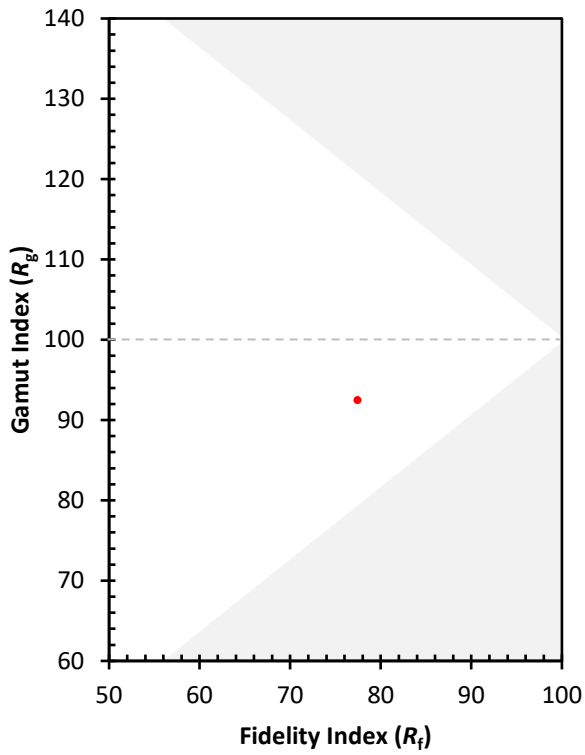
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 70
CES02 = 63	CES27 = 91	CES52 = 85	CES77 = 81
CES03 = 31	CES28 = 90	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 74	CES54 = 86	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 85	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 77	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 76	CES82 = 95
CES08 = 40	CES33 = 82	CES58 = 78	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 74
CES11 = 60	CES36 = 96	CES61 = 83	CES86 = 58
CES12 = 66	CES37 = 91	CES62 = 95	CES87 = 78
CES13 = 43	CES38 = 92	CES63 = 81	CES88 = 78
CES14 = 74	CES39 = 97	CES64 = 71	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 70	CES90 = 79
CES16 = 47	CES41 = 93	CES66 = 70	CES91 = 85
CES17 = 50	CES42 = 92	CES67 = 68	CES92 = 56
CES18 = 57	CES43 = 83	CES68 = 72	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 81	CES94 = 48
CES20 = 67	CES45 = 86	CES70 = 69	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 88	CES97 = 81
CES23 = 92	CES48 = 73	CES73 = 63	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 93	CES99 = 64
CES25 = 73	CES50 = 87	CES75 = 73	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)