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: P980959

Luminaire Tested: **NFFLD-L-C75-7030-66**

Issue Date: 04/10/2025

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P980959
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	04/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NFFLD-L-C75-7030-66
Description:	LUMARK NIGHT FALCON LARGE SIZE 180W 70CRI 3000K LED FIXTURE NEMA 6
Light Source:	(4) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29207.1 lumens
Efficiency:	N/A
Efficacy:	163.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.67' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B4 - U0 - G2

Input Watts (W):	179
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	3.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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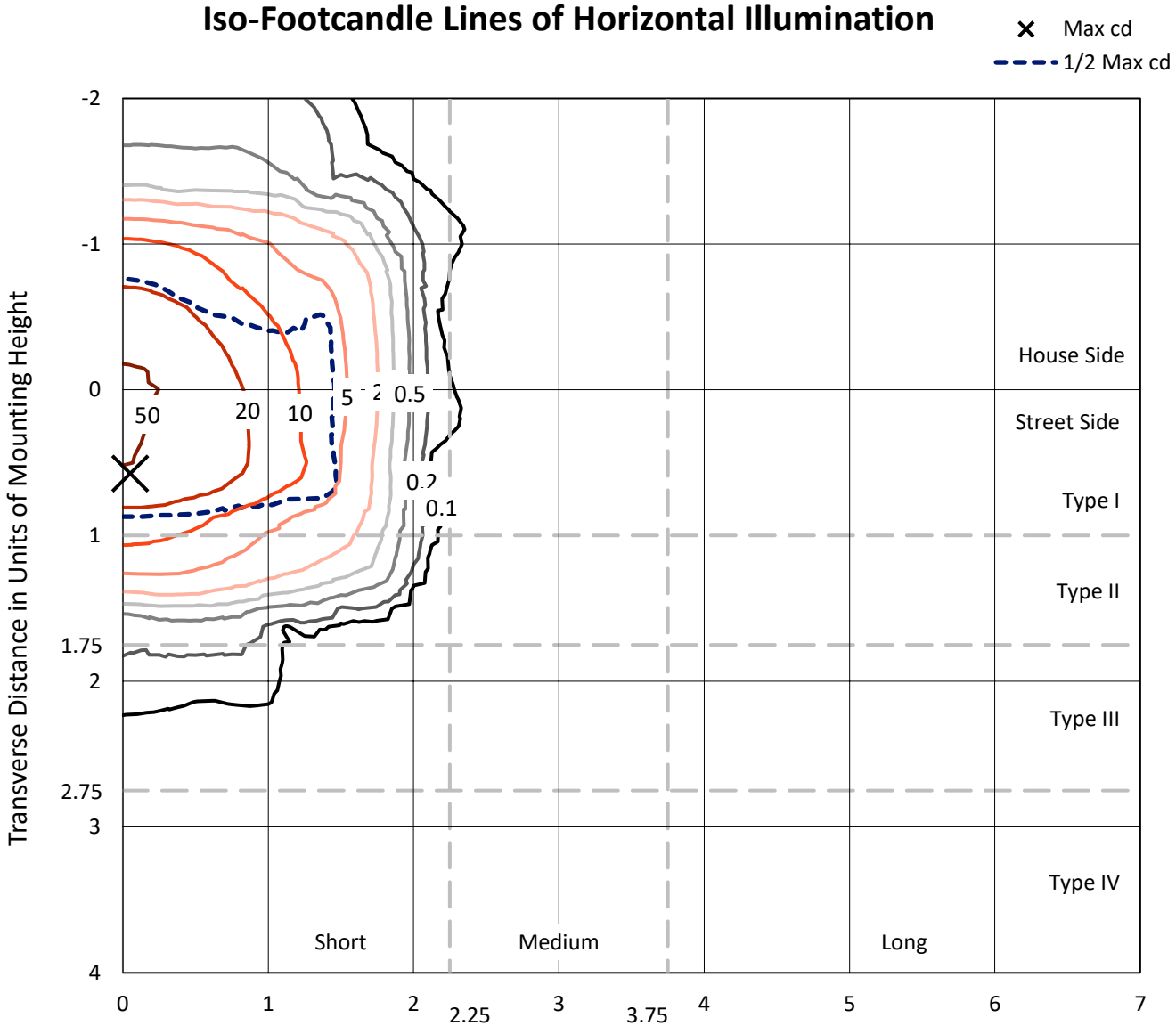
REPORT NUMBER: P980959
CATALOG NUMBER: NFFLD-L-C75-7030-66

Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 54.3 fc
Type I - Short - N/A

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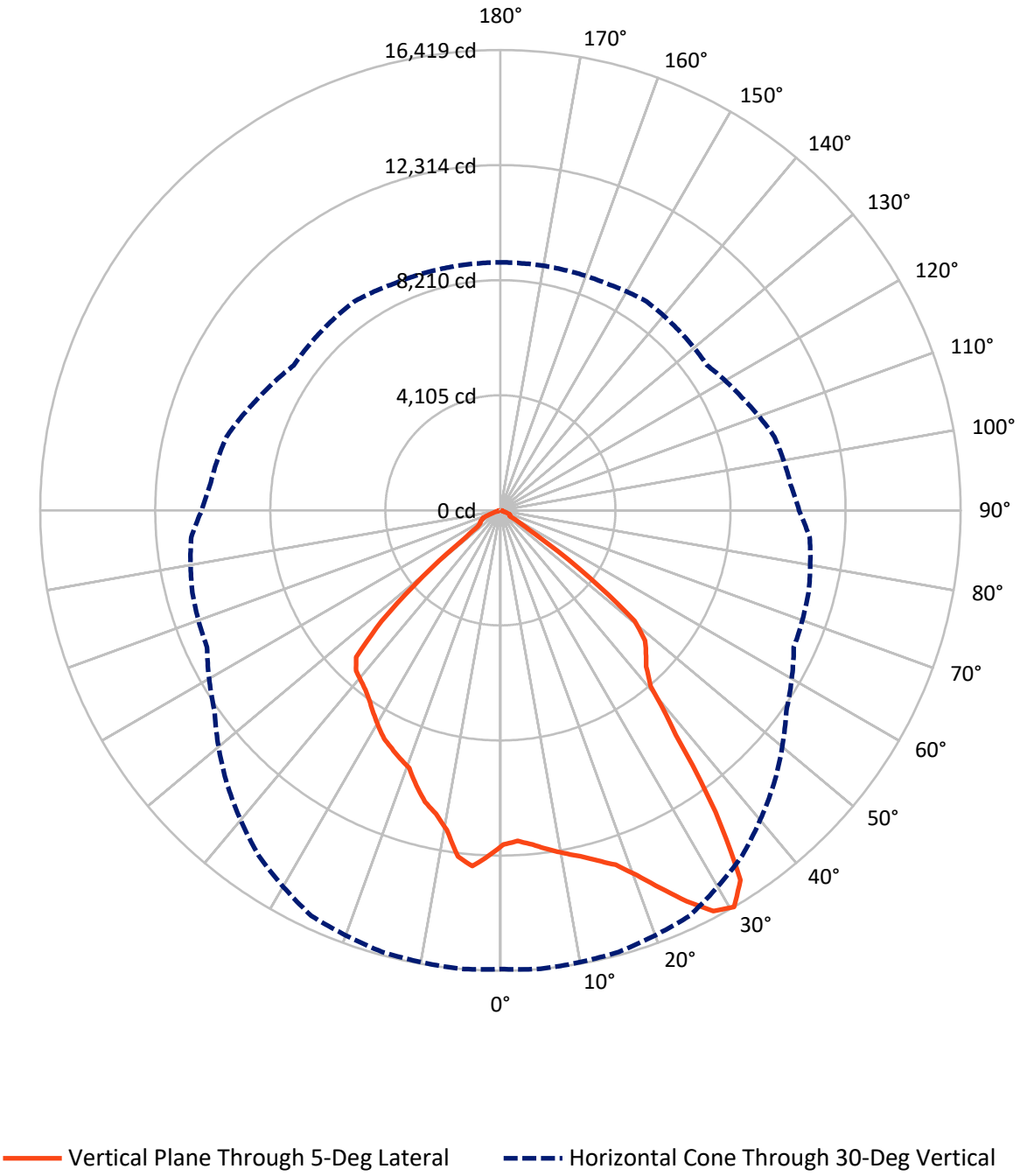
Luminous Intensity Polar Plot



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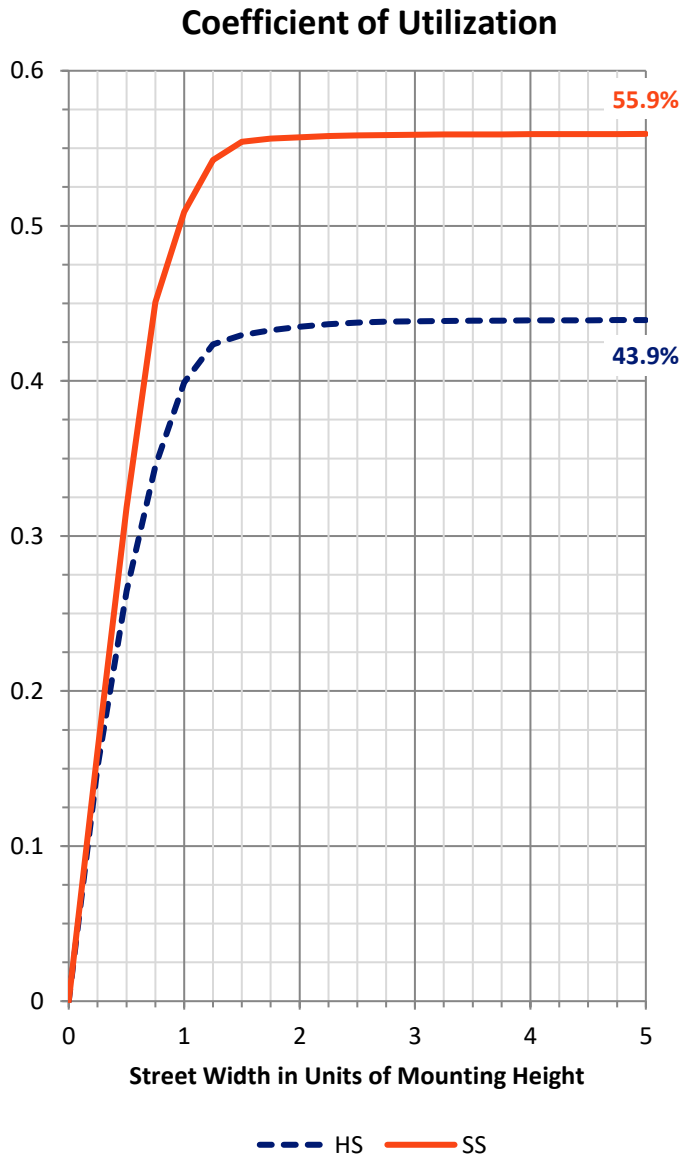
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12918.0	0.0	12918.0
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	16289.1	0.0	16289.1
	% Fixture	55.8	0.0	55.8
Total	Lumens	29207.1	0.0	29207.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.2	4.0
10°-20°	3378.3	11.6
20°-30°	5383.5	18.4
30°-40°	6730.3	23.0
40°-50°	6604.7	22.6
50°-60°	4722.0	16.2
60°-70°	1044.7	3.6
70°-80°	160.5	0.5
80°-90°	17.0	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°	29207.1	100.0
0°-180°	29207.1	100.0



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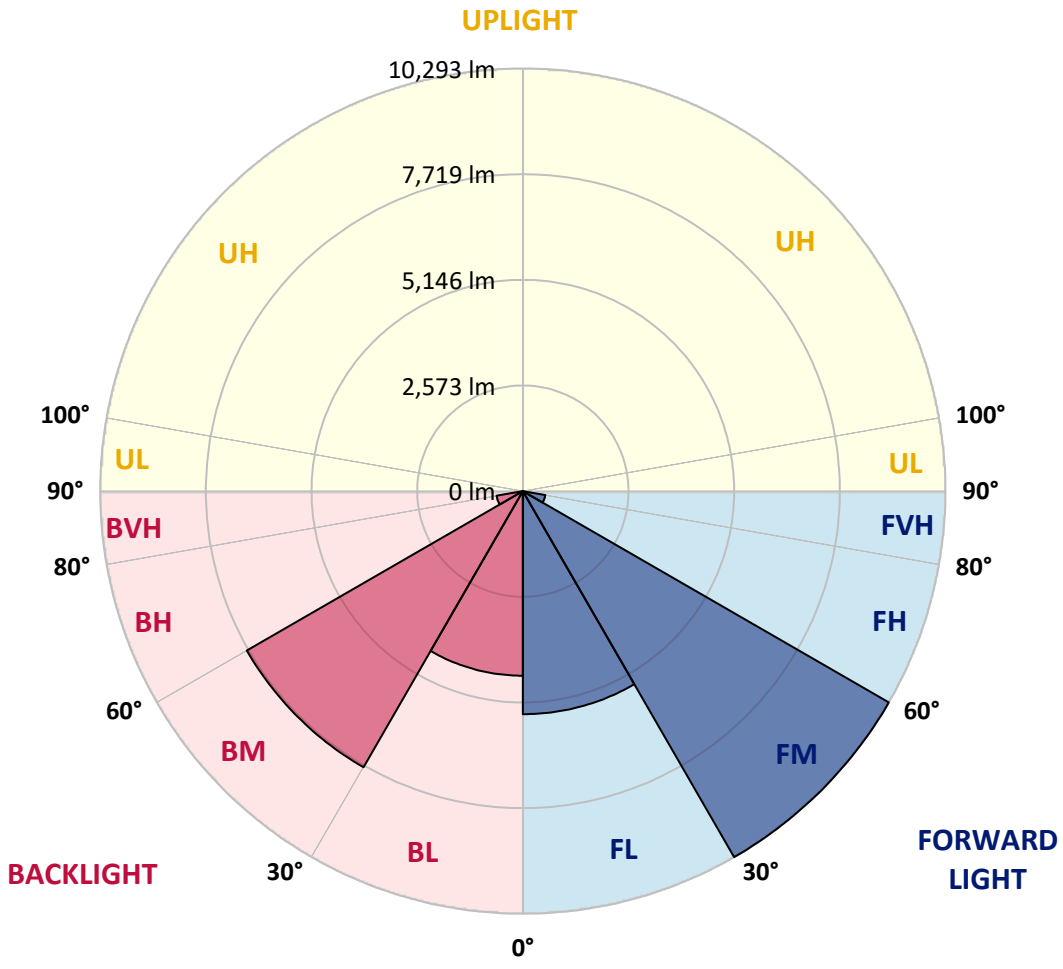
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5432.3	18.6			
FM	(30°-60°)	10292.6	35.2			
FH	(60°-80°)	555.7	1.9			G0/660
FVH	(80°-90°)	8.6	0.0			G0/10
BL	(0°-30°)	4495.7	15.4	B4/5000		
BM	(30°-60°)	7764.4	26.6	B4/8500		
BH	(60°-80°)	649.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	8.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3
2.5°	11787.9	11807.0	11826.0	11854.6	11892.7	11911.8	11892.7	11873.7	11864.2	11883.2	11892.7
5°	11949.9	11978.5	11988.0	12007.1	12026.2	12007.1	11997.6	11978.5	11969.0	11978.5	12007.1
7.5°	12188.2	12207.2	12197.7	12188.2	12178.6	12111.9	12045.2	12016.6	12016.6	12045.2	12121.5
10°	12397.8	12435.9	12388.3	12350.2	12283.5	12178.6	12064.3	11997.6	12016.6	12073.8	12169.1
12.5°	12664.6	12664.6	12617.0	12578.9	12426.4	12302.5	12150.0	12045.2	12045.2	12150.0	12254.9
15°	12988.6	12960.0	12941.0	12836.2	12655.1	12455.0	12264.4	12111.9	12083.3	12245.3	12312.0
17.5°	13398.4	13293.6	13245.9	13064.9	12817.1	12559.8	12302.5	12178.6	12092.9	12264.4	12188.2
20°	13960.6	13884.4	13731.9	13446.0	12941.0	12607.5	12302.5	12140.5	12073.8	12169.1	12092.9
22.5°	14684.9	14637.2	14294.2	13932.0	13265.0	12645.6	12254.9	12035.7	12016.6	11969.0	11807.0
25°	15571.1	15447.2	15094.6	14580.1	13751.0	13017.2	12245.3	11845.1	11778.4	11654.5	11368.6
27.5°	16323.9	16190.5	15761.7	15304.3	14418.1	13569.9	12321.6	11616.4	11540.2	11454.4	11101.8
30°	16362.1	16419.2	16304.9	15961.8	15037.5	13798.6	12455.0	11549.7	11378.2	11073.2	10653.9
32.5°	15590.2	15723.6	15999.9	16123.8	15504.4	14075.0	12569.3	11578.3	11263.8	10530.0	10187.0
35°	12950.5	13217.3	14351.3	15418.6	15637.8	14475.2	12664.6	11578.3	11225.7	10139.3	9872.5
37.5°	9948.7	10167.9	11130.4	13064.9	15047.0	14723.0	12874.3	11511.6	11178.0	10167.9	9805.8
40°	8128.6	8252.5	8671.8	9986.9	12969.6	14313.2	13083.9	11587.8	11035.1	10187.0	9843.9
42.5°	7633.1	7623.6	7537.8	8023.8	9891.6	13112.5	13226.9	11778.4	10796.9	10063.1	9777.2
45°	7299.6	7280.5	7204.3	7299.6	7823.7	10730.2	13122.0	12121.5	10501.4	9624.7	9434.2
47.5°	6937.4	6947.0	6918.4	6956.5	6861.2	8147.7	12531.2	12264.4	9996.4	8891.0	8824.3
50°	6070.3	6213.2	6594.4	6632.5	6384.7	6575.3	10730.2	12197.7	9634.3	8681.3	8624.1
52.5°	3773.7	4002.4	5126.8	6079.8	5936.8	5936.8	8185.8	12293.0	8986.3	8605.1	8643.2
55°	1334.1	1505.7	2744.5	4183.4	5317.4	5422.3	6470.5	10939.8	8910.0	8738.5	8776.6
57.5°	333.5	409.8	838.6	1810.6	3583.1	4917.2	5784.4	9033.9	6765.9	6527.7	6623.0
60°	390.7	381.2	524.1	581.3	1391.3	3888.0	5212.6	6098.8	4364.5	4088.1	4135.8
62.5°	419.3	390.7	409.8	514.6	228.7	1905.9	4154.8	3630.7	1801.1	1334.1	1410.4
65°	371.6	352.6	324.0	476.5	162.0	352.6	2449.1	1067.3	257.3	409.8	371.6
67.5°	247.8	257.3	266.8	381.2	152.5	152.5	324.0	266.8	181.1	371.6	324.0
70°	142.9	152.5	181.1	228.7	152.5	123.9	142.9	219.2	152.5	371.6	324.0
72.5°	85.8	85.8	85.8	95.3	152.5	104.8	95.3	181.1	133.4	343.1	324.0
75°	66.7	66.7	66.7	57.2	133.4	66.7	66.7	142.9	114.4	247.8	247.8
77.5°	57.2	57.2	57.2	47.6	76.2	57.2	57.2	104.8	104.8	123.9	142.9
80°	38.1	38.1	38.1	38.1	47.6	47.6	38.1	57.2	47.6	57.2	66.7
82.5°	19.1	28.6	28.6	19.1	28.6	28.6	28.6	38.1	28.6	38.1	38.1
85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	19.1	9.5	9.5	19.1
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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Scaled Data Report

REPORT NUMBER: P980959
CATALOG NUMBER: NFFLD-L-C75-7030-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3	11921.3
2.5°	11911.8	11959.5	12026.2	12131.0	12169.1	12235.8	12293.0	12340.6	12340.6	12321.6
5°	12064.3	12197.7	12378.7	12540.8	12597.9	12664.6	12693.2	12740.9	12731.3	12721.8
7.5°	12197.7	12407.3	12597.9	12712.3	12693.2	12607.5	12550.3	12474.0	12445.5	12464.5
10°	12302.5	12493.1	12578.9	12502.6	12273.9	12073.8	11816.5	11645.0	11559.2	11587.8
12.5°	12340.6	12407.3	12331.1	11911.8	11625.9	11435.3	11225.7	11111.3	11063.7	11073.2
15°	12350.2	12197.7	11778.4	11463.9	11254.3	11016.0	10844.5	10739.7	10739.7	10749.2
17.5°	12150.0	11778.4	11416.3	11178.0	10882.6	10634.9	10539.6	10501.4	10263.2	10301.3
20°	11969.0	11435.3	11235.2	10863.6	10511.0	10349.0	9796.3	9739.1	9748.6	9758.2
22.5°	11587.8	11187.6	11006.5	10520.5	10120.3	9672.4	9596.2	9539.0	9548.5	9548.5
25°	11063.7	10835.0	10587.2	10082.2	9596.2	9510.4	9453.2	9377.0	9338.9	9348.4
27.5°	10768.3	10482.4	10025.0	9596.2	9281.7	9319.8	9253.1	9138.7	9138.7	9148.3
30°	*10396.6*	*10120.3*	*9510.4*	*9005.3*	*9033.9*	*9091.1*	*8929.1*	*8871.9*	*8843.3*	*8843.3*
32.5°	9939.2	9558.0	9024.4	8547.9	8719.4	8700.4	8500.3	8519.3	8538.4	8519.3
35°	9596.2	9100.6	8652.7	8395.4	8328.7	8252.5	8147.7	8214.4	8243.0	8223.9
37.5°	9510.4	8919.6	8452.6	8271.6	8014.3	7871.3	7899.9	7966.6	8004.7	7995.2
40°	9481.8	8738.5	8281.1	8090.5	7747.4	7623.6	7661.7	7795.1	7842.7	7833.2
42.5°	9443.7	8614.6	8176.3	7947.6	7471.1	7385.3	7566.4	7690.3	7699.8	7690.3
45°	9243.6	8481.2	8109.6	7652.1	7051.8	7156.6	7385.3	7452.0	7337.7	7290.0
47.5°	8776.6	8233.4	7909.4	7290.0	6708.7	6908.8	6937.4	6213.2	5793.9	5698.6
50°	8643.2	8243.0	7680.7	6861.2	6499.1	6699.2	5450.8	4164.4	3640.2	3535.4
52.5°	8605.1	8147.7	7766.5	6413.3	6422.8	5651.0	3440.1	2039.3	1639.1	1562.8
55°	8700.4	8567.0	7909.4	6146.5	5975.0	3678.4	1600.9	962.5	991.1	962.5
57.5°	6565.8	7166.1	8081.0	5727.2	4364.5	1772.5	1010.1	933.9	867.2	848.1
60°	4097.7	4669.4	5917.8	4926.7	2239.4	1057.8	1029.2	867.2	838.6	829.1
62.5°	1353.2	2077.4	3392.5	3240.0	619.4	1048.2	1038.7	771.9	771.9	771.9
65°	343.1	352.6	933.9	1114.9	457.4	933.9	991.1	724.2	705.2	733.8
67.5°	295.4	266.8	495.5	438.4	381.2	648.0	867.2	695.6	657.5	657.5
70°	295.4	314.5	486.0	409.8	238.2	352.6	628.9	428.8	381.2	352.6
72.5°	276.4	304.9	428.8	371.6	162.0	171.5	276.4	142.9	133.4	114.4
75°	238.2	247.8	333.5	333.5	171.5	85.8	114.4	95.3	95.3	85.8
77.5°	162.0	123.9	190.6	238.2	123.9	57.2	47.6	47.6	47.6	38.1
80°	85.8	47.6	47.6	38.1	47.6	47.6	28.6	38.1	38.1	28.6
82.5°	47.6	28.6	28.6	19.1	19.1	28.6	19.1	19.1	19.1	19.1
85°	19.1	19.1	9.5	9.5	9.5	19.1	9.5	9.5	9.5	9.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2501-319-10

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7030-66

Data in this report applies to families of products including NFFLD-C55-7030-66

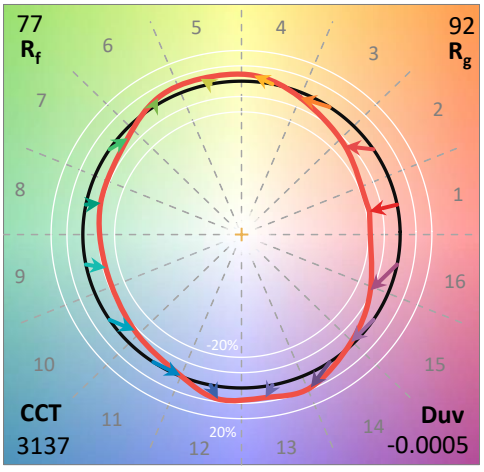
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-319-10
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-C55-7030-66**
Description:	LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K):	3137	CRI (Ra):	71.4		
CIE u':	0.2461	R1:	67.1	R9:	-42.3
CIE v':	0.5180	R2:	84.2	R10:	65.1
Duv:	-0.0005	R3:	93.4	R11:	60.5
CIE x:	0.4269	R4:	65.5	R12:	58.2
CIE y:	0.3993	R5:	67.7	R13:	70.6
CIE z:	0.1739	R6:	78.9	R14:	96.6
Peak Wavelength (nm):	591	R7:	75.0	R15:	58.2
Dominant Wavelength (nm):	582	R8:	39.1		
Purity:	47.96229				
Rf:	76.5				
Rg:	91.7				



Test Conditions

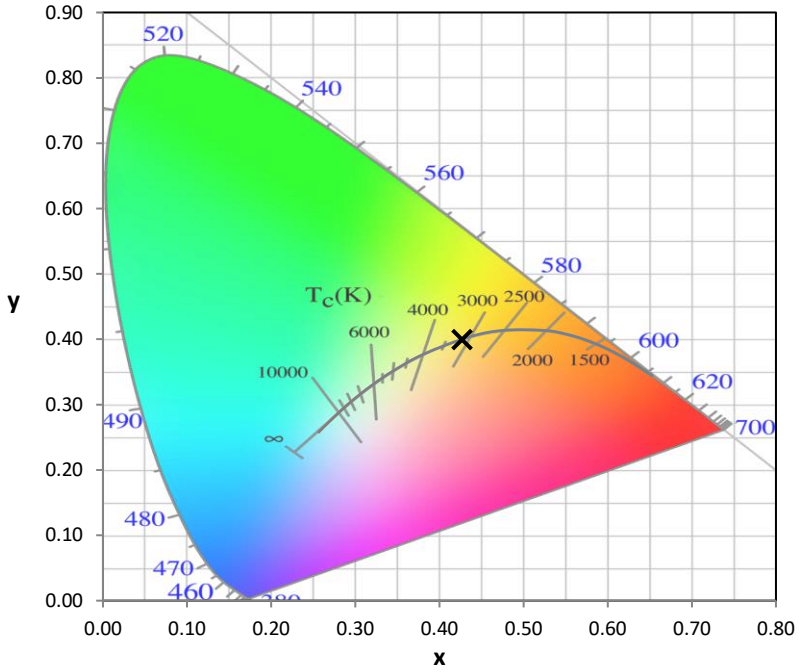
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-319-10

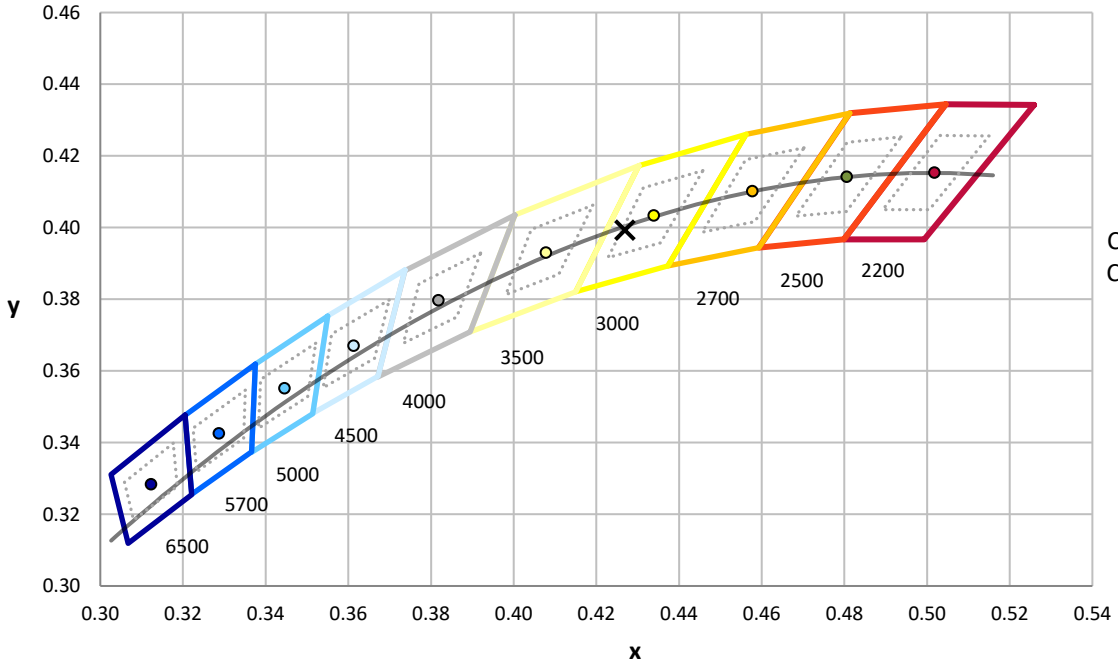
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/212025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-319-10

CIE 1931 Chromaticity Diagram



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

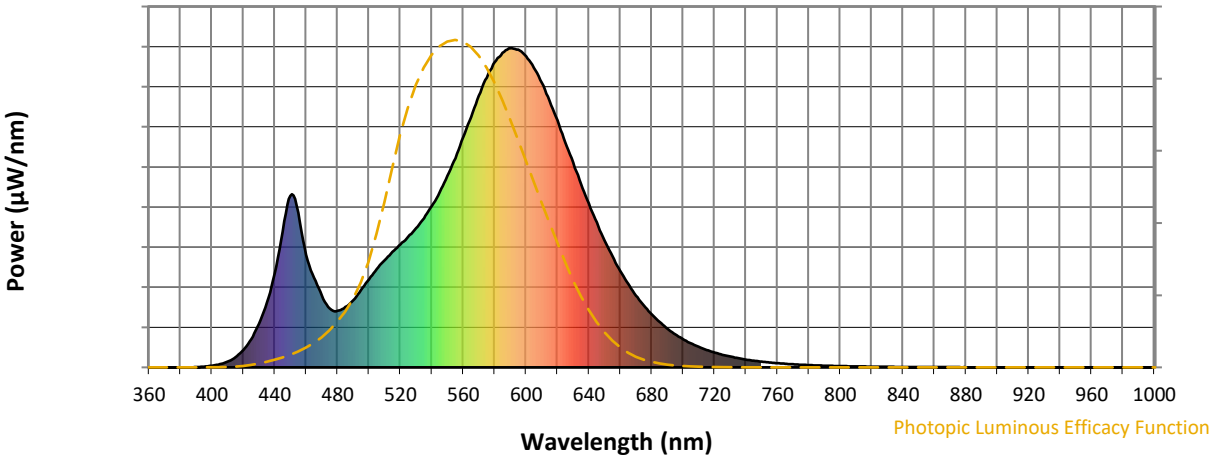


CCT = 3137K
CIE x = 0.4269
CIE y = 0.3993
Duv = -0.0005

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-10

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	211	NR	620	774	NR	750	18	NR	880	1	NR
365	0	NR	495	243	NR	625	705	NR	755	15	NR	885	0	NR
370	0	NR	500	276	NR	630	642	NR	760	13	NR	890	0	NR
375	0	NR	505	308	NR	635	575	NR	765	11	NR	895	0	NR
380	0	NR	510	336	NR	640	513	NR	770	10	NR	900	0	NR
385	0	NR	515	362	NR	645	454	NR	775	8	NR	905	0	NR
390	1	NR	520	385	NR	650	397	NR	780	7	NR	910	0	NR
395	3	NR	525	410	NR	655	348	NR	785	6	NR	915	0	NR
400	5	NR	530	437	NR	660	301	NR	790	5	NR	920	0	NR
405	10	NR	535	468	NR	665	261	NR	795	5	NR	925	0	NR
410	18	NR	540	505	NR	670	225	NR	800	4	NR	930	0	NR
415	32	NR	545	549	NR	675	193	NR	805	3	NR	935	0	NR
420	54	NR	550	600	NR	680	166	NR	810	3	NR	940	0	NR
425	89	NR	555	655	NR	685	142	NR	815	3	NR	945	0	NR
430	137	NR	560	721	NR	690	121	NR	820	2	NR	950	0	NR
435	204	NR	565	784	NR	695	103	NR	825	2	NR	955	0	NR
440	293	NR	570	851	NR	700	88	NR	830	2	NR	960	0	NR
445	425	NR	575	907	NR	705	75	NR	835	1	NR	965	0	NR
450	537	NR	580	956	NR	710	64	NR	840	1	NR	970	0	NR
455	484	NR	585	986	NR	715	54	NR	845	1	NR	975	0	NR
460	353	NR	590	1000	NR	720	46	NR	850	1	NR	980	0	NR
465	281	NR	595	996	NR	725	39	NR	855	1	NR	985	0	NR
470	224	NR	600	974	NR	730	34	NR	860	1	NR	990	0	NR
475	184	NR	605	938	NR	735	29	NR	865	1	NR	995	0	NR
480	177	NR	610	891	NR	740	24	NR	870	1	NR	1000	0	NR
485	189	NR	615	835	NR	745	21	NR	875	1	NR			

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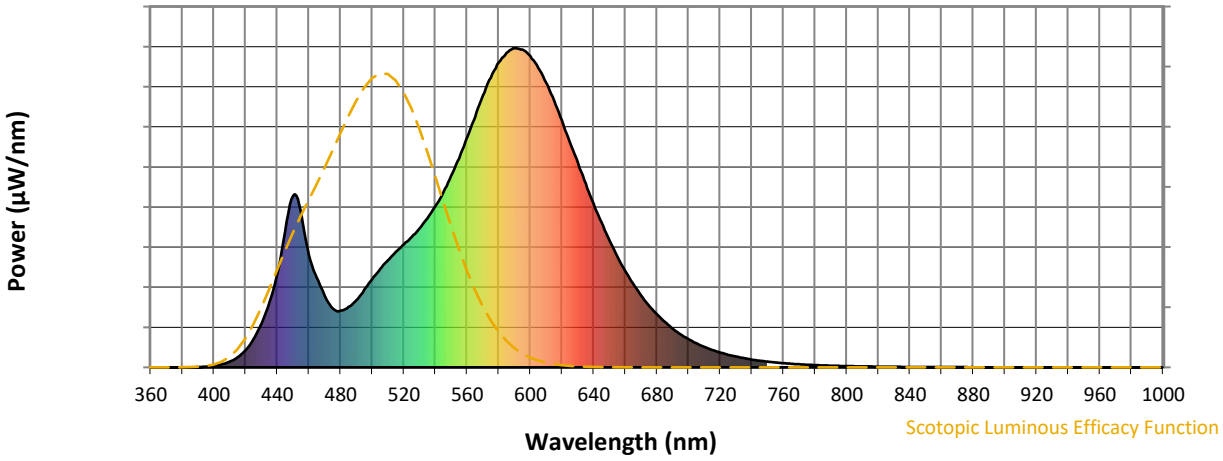
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.31**

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	211	NR	620	774	NR	750	18	NR	880	1	NR
365	0	NR	495	243	NR	625	705	NR	755	15	NR	885	0	NR
370	0	NR	500	276	NR	630	642	NR	760	13	NR	890	0	NR
375	0	NR	505	308	NR	635	575	NR	765	11	NR	895	0	NR
380	0	NR	510	336	NR	640	513	NR	770	10	NR	900	0	NR
385	0	NR	515	362	NR	645	454	NR	775	8	NR	905	0	NR
390	1	NR	520	385	NR	650	397	NR	780	7	NR	910	0	NR
395	3	NR	525	410	NR	655	348	NR	785	6	NR	915	0	NR
400	5	NR	530	437	NR	660	301	NR	790	5	NR	920	0	NR
405	10	NR	535	468	NR	665	261	NR	795	5	NR	925	0	NR
410	18	NR	540	505	NR	670	225	NR	800	4	NR	930	0	NR
415	32	NR	545	549	NR	675	193	NR	805	3	NR	935	0	NR
420	54	NR	550	600	NR	680	166	NR	810	3	NR	940	0	NR
425	89	NR	555	655	NR	685	142	NR	815	3	NR	945	0	NR
430	137	NR	560	721	NR	690	121	NR	820	2	NR	950	0	NR
435	204	NR	565	784	NR	695	103	NR	825	2	NR	955	0	NR
440	293	NR	570	851	NR	700	88	NR	830	2	NR	960	0	NR
445	425	NR	575	907	NR	705	75	NR	835	1	NR	965	0	NR
450	537	NR	580	956	NR	710	64	NR	840	1	NR	970	0	NR
455	484	NR	585	986	NR	715	54	NR	845	1	NR	975	0	NR
460	353	NR	590	1000	NR	720	46	NR	850	1	NR	980	0	NR
465	281	NR	595	996	NR	725	39	NR	855	1	NR	985	0	NR
470	224	NR	600	974	NR	730	34	NR	860	1	NR	990	0	NR
475	184	NR	605	938	NR	735	29	NR	865	1	NR	995	0	NR
480	177	NR	610	891	NR	740	24	NR	870	1	NR	1000	0	NR
485	189	NR	615	835	NR	745	21	NR	875	1	NR			

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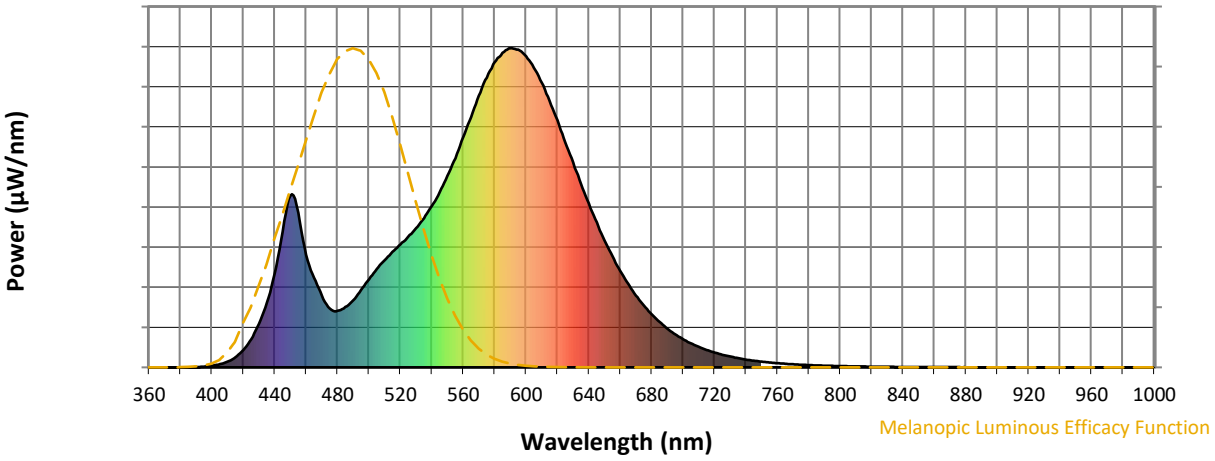
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.52**

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	211	NR	620	774	NR	750	18	NR	880	1	NR
365	0	NR	495	243	NR	625	705	NR	755	15	NR	885	0	NR
370	0	NR	500	276	NR	630	642	NR	760	13	NR	890	0	NR
375	0	NR	505	308	NR	635	575	NR	765	11	NR	895	0	NR
380	0	NR	510	336	NR	640	513	NR	770	10	NR	900	0	NR
385	0	NR	515	362	NR	645	454	NR	775	8	NR	905	0	NR
390	1	NR	520	385	NR	650	397	NR	780	7	NR	910	0	NR
395	3	NR	525	410	NR	655	348	NR	785	6	NR	915	0	NR
400	5	NR	530	437	NR	660	301	NR	790	5	NR	920	0	NR
405	10	NR	535	468	NR	665	261	NR	795	5	NR	925	0	NR
410	18	NR	540	505	NR	670	225	NR	800	4	NR	930	0	NR
415	32	NR	545	549	NR	675	193	NR	805	3	NR	935	0	NR
420	54	NR	550	600	NR	680	166	NR	810	3	NR	940	0	NR
425	89	NR	555	655	NR	685	142	NR	815	3	NR	945	0	NR
430	137	NR	560	721	NR	690	121	NR	820	2	NR	950	0	NR
435	204	NR	565	784	NR	695	103	NR	825	2	NR	955	0	NR
440	293	NR	570	851	NR	700	88	NR	830	2	NR	960	0	NR
445	425	NR	575	907	NR	705	75	NR	835	1	NR	965	0	NR
450	537	NR	580	956	NR	710	64	NR	840	1	NR	970	0	NR
455	484	NR	585	986	NR	715	54	NR	845	1	NR	975	0	NR
460	353	NR	590	1000	NR	720	46	NR	850	1	NR	980	0	NR
465	281	NR	595	996	NR	725	39	NR	855	1	NR	985	0	NR
470	224	NR	600	974	NR	730	34	NR	860	1	NR	990	0	NR
475	184	NR	605	938	NR	735	29	NR	865	1	NR	995	0	NR
480	177	NR	610	891	NR	740	24	NR	870	1	NR	1000	0	NR
485	189	NR	615	835	NR	745	21	NR	875	1	NR			

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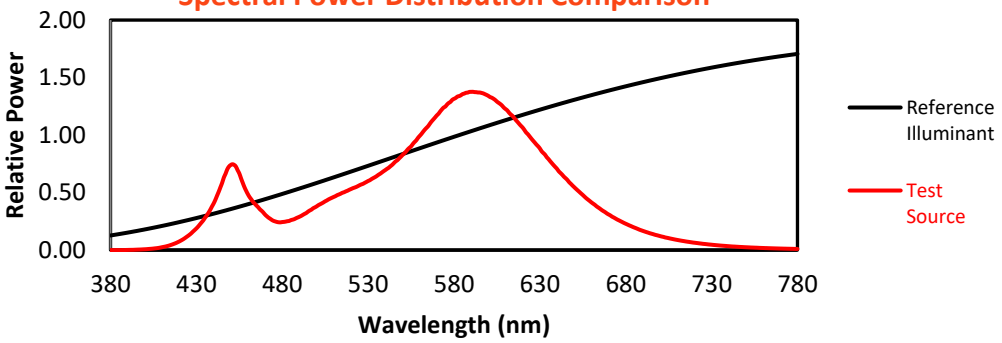
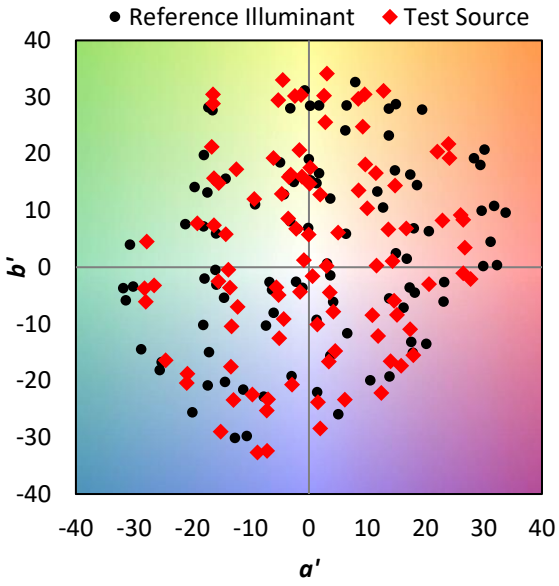
Summary

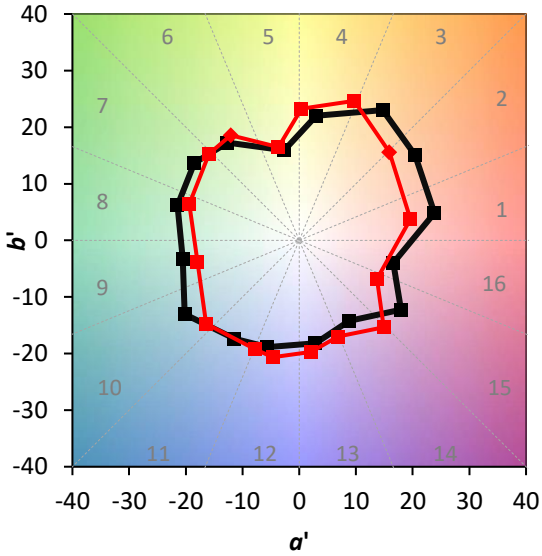
R_f = 76.5
R_g = 91.7
CIE R_a = 71.4
R_9 = -42.3

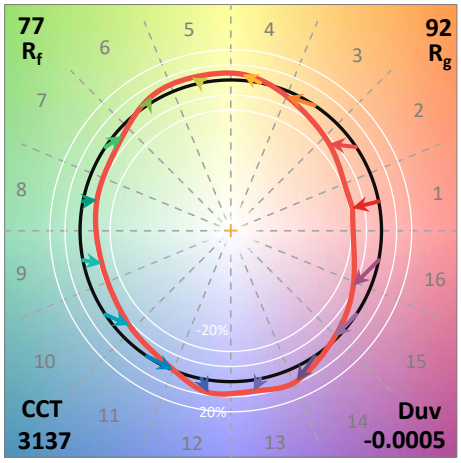
Spectral Power Distribution Comparison

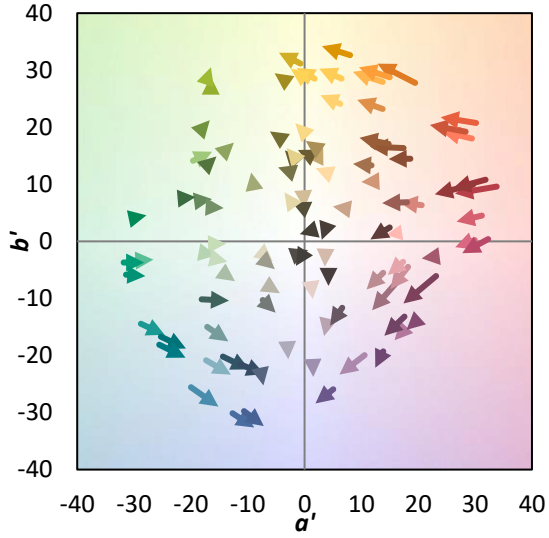


Color Vector Graphics









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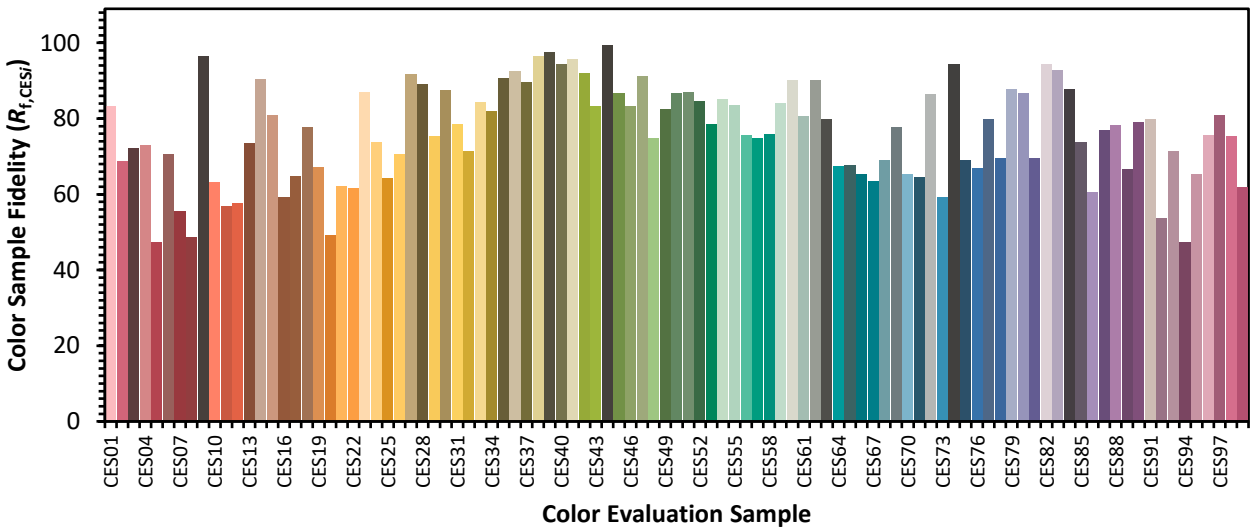
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 71	CES51 = 87	CES76 = 67
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 89	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 88
CES05 = 49	CES30 = 88	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 70
CES07 = 41	CES32 = 71	CES57 = 75	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 76	CES83 = 93
CES09 = 29	CES34 = 82	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 74
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 90	CES62 = 90	CES87 = 77
CES13 = 43	CES38 = 96	CES63 = 80	CES88 = 78
CES14 = 74	CES39 = 98	CES64 = 67	CES89 = 67
CES15 = 71	CES40 = 94	CES65 = 68	CES90 = 79
CES16 = 47	CES41 = 96	CES66 = 65	CES91 = 80
CES17 = 50	CES42 = 92	CES67 = 64	CES92 = 54
CES18 = 56	CES43 = 83	CES68 = 69	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 65	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 65	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 59	CES98 = 75
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 62
CES25 = 72	CES50 = 87	CES75 = 69	



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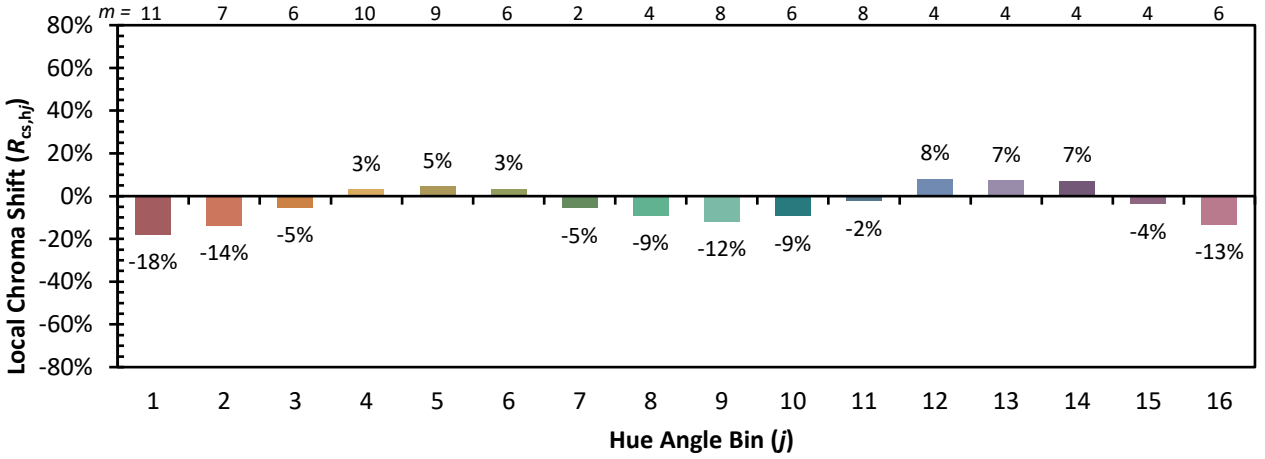
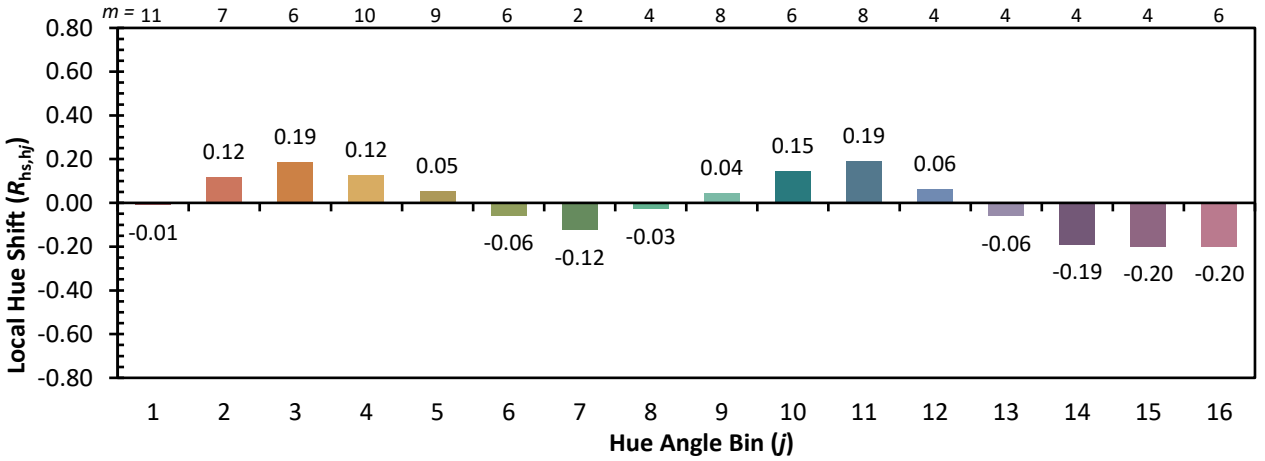
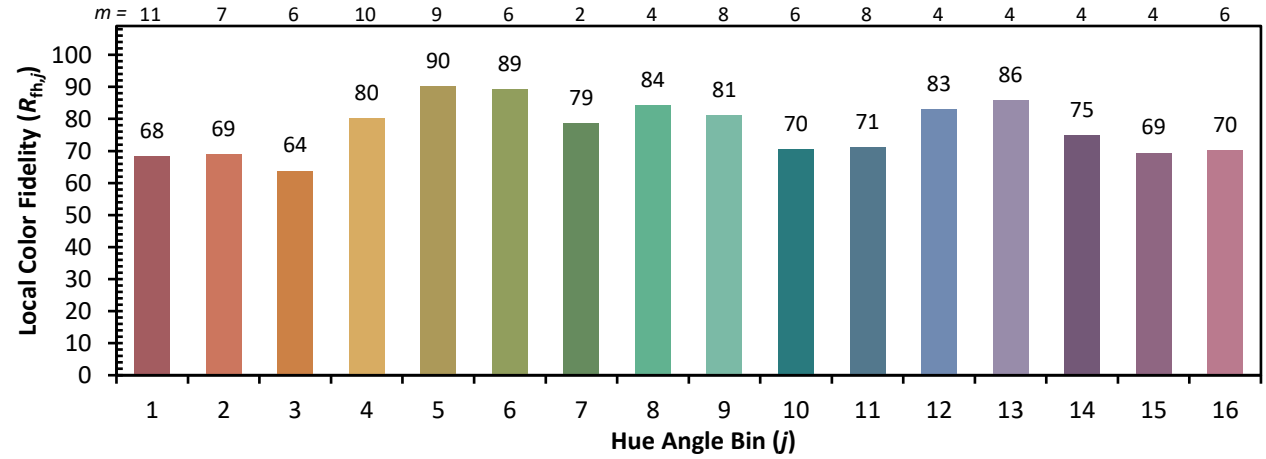
Color Rendition by Hue-Angle Bin







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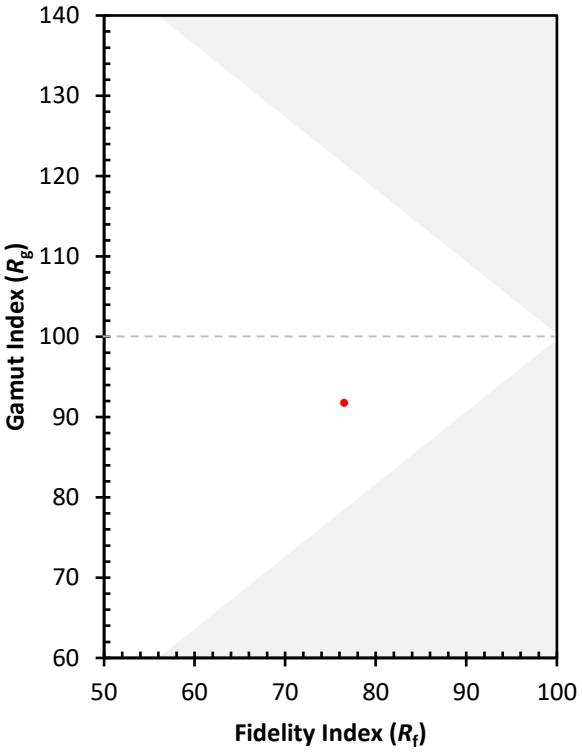
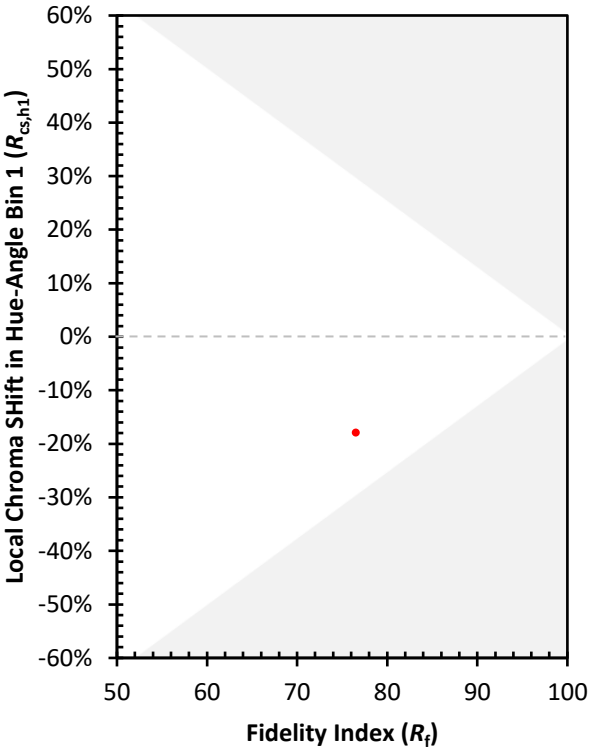
Measure Comparisons





(END OF REPORT)