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: P980936

Luminaire Tested: **NFFLD-C70-7022-66**

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:	P980936
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	04/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NFFLD-C70-7022-66
Description:	LUMARK NIGHT FALCON MEDIUM SIZE 180W 70CRI 2200K LED FIXTURE NEMA 6
Light Source:	(2) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23123 lumens
Efficiency:	N/A
Efficacy:	127.9 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 (Ain):	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

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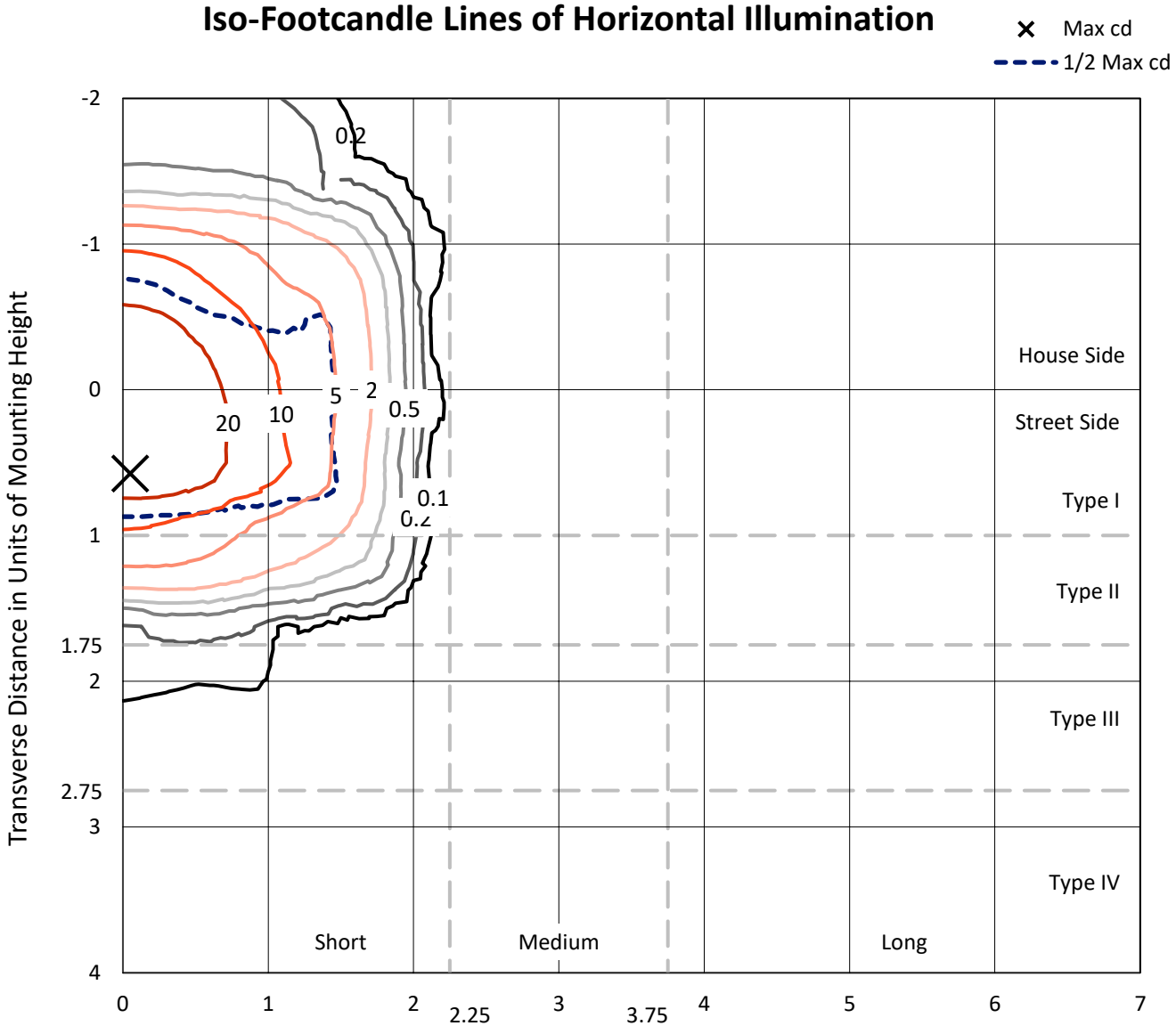
Scaled Data Report

REPORT NUMBER: P980936
CATALOG NUMBER: NFFLD-C70-7022-66

Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 43 fc
Type I - Short - N/A

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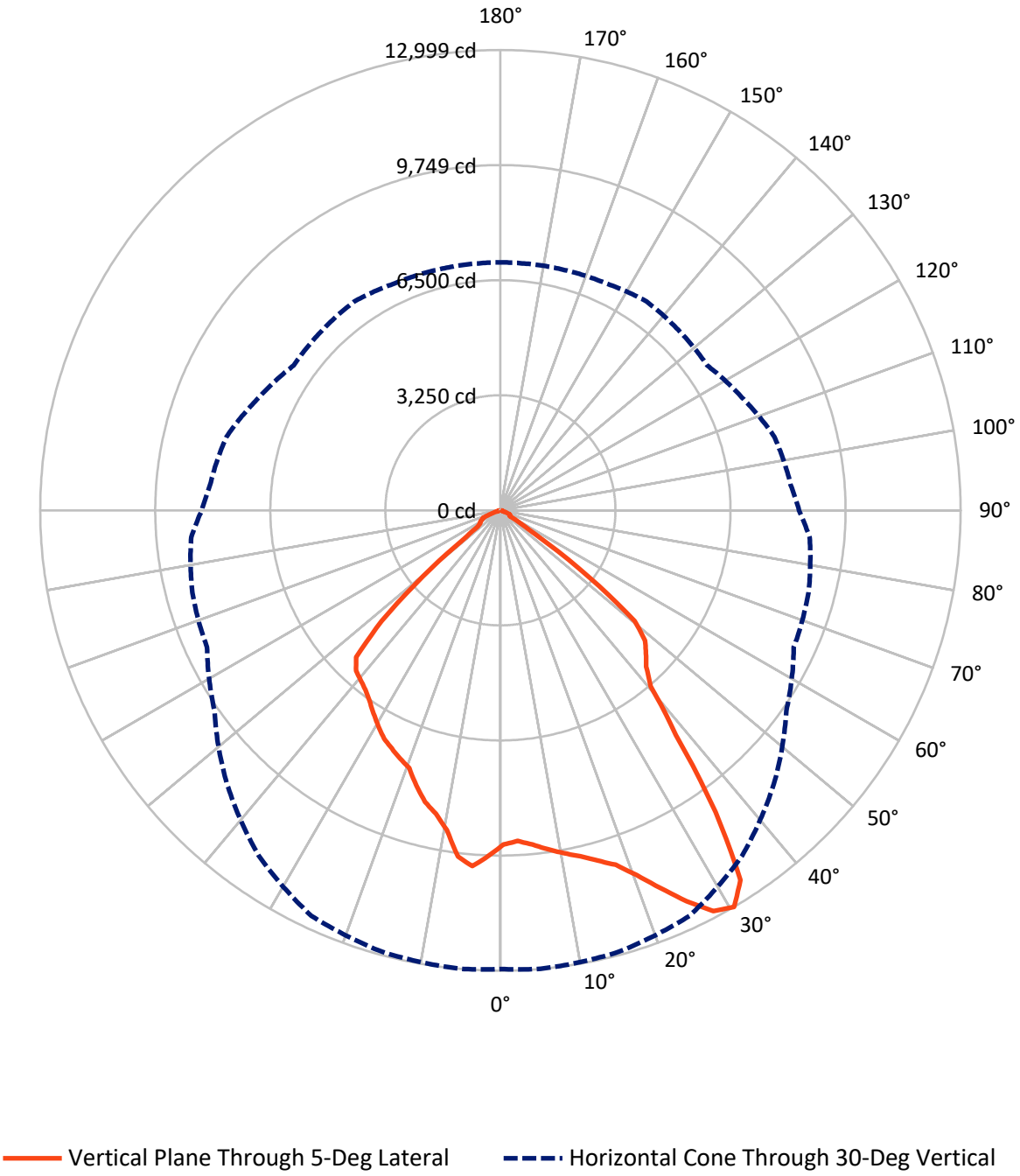
Luminous Intensity Polar Plot



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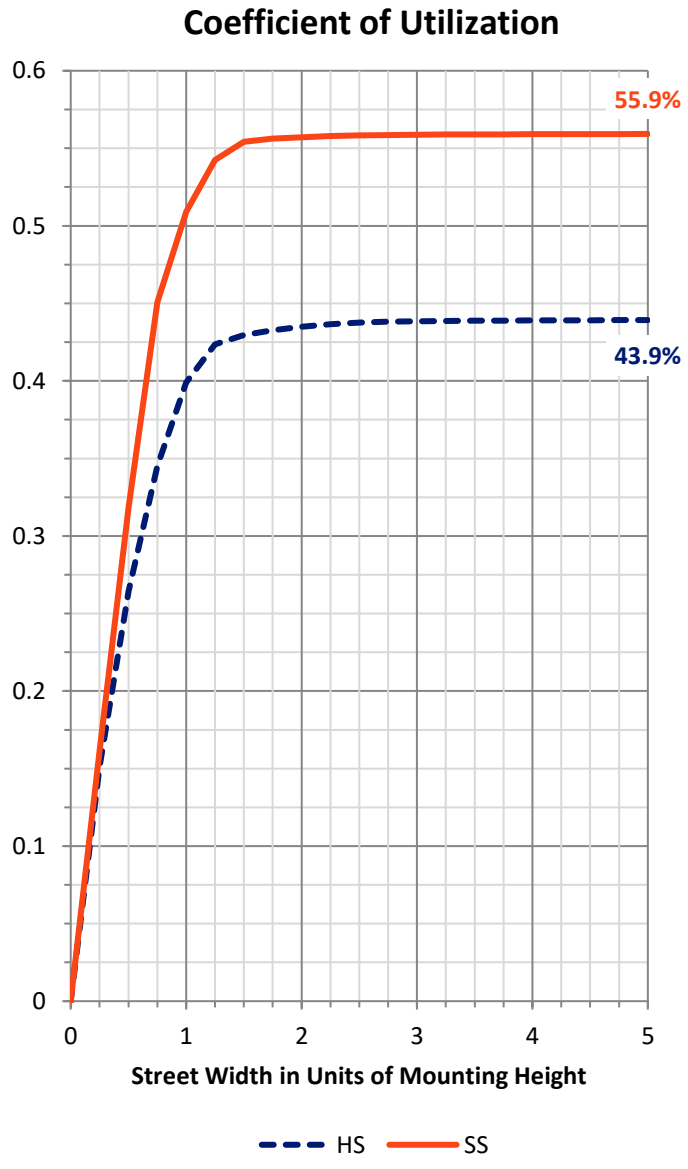
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10227.1	0.0	10227.1
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	12895.9	0.0	12895.9
	% Fixture	55.8	0.0	55.8
Total	Lumens	23123.0	0.0	23123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.3	4.0
10°-20°	2674.5	11.6
20°-30°	4262.1	18.4
30°-40°	5328.3	23.0
40°-50°	5228.9	22.6
50°-60°	3738.3	16.2
60°-70°	827.1	3.6
70°-80°	127.1	0.5
80°-90°	13.4	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°	23123.0	100.0
0°-180°	23123.0	100.0



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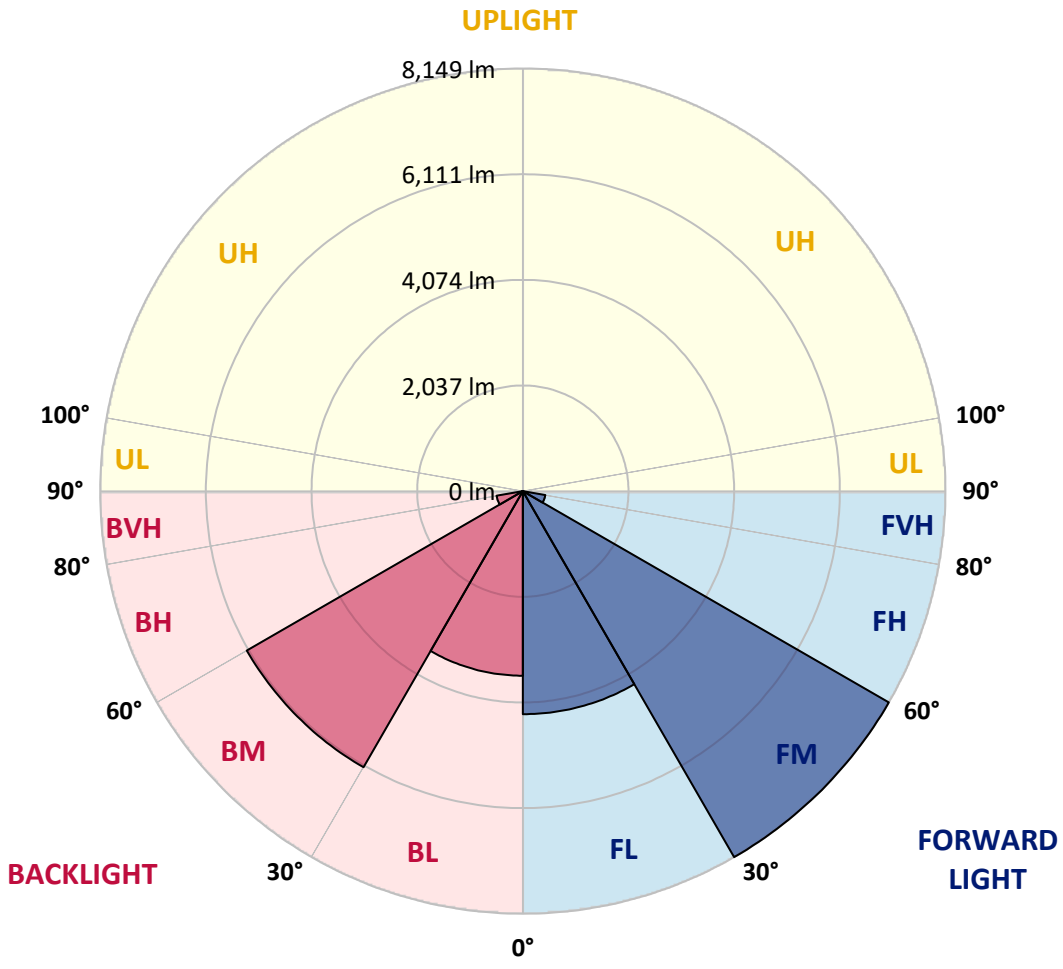
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4300.7	18.6			
FM	(30°-60°)	8148.5	35.2			
FH	(60°-80°)	439.9	1.9			G0/660
FVH	(80°-90°)	6.8	0.0			G0/10
BL	(0°-30°)	3559.2	15.4	B4/5000		
BM	(30°-60°)	6147.0	26.6	B4/8500		
BH	(60°-80°)	514.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	6.6	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°	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0
2.5°	9332.4	9347.5	9362.6	9385.2	9415.4	9430.5	9415.4	9400.3	9392.8	9407.8	9415.4
5°	9460.7	9483.3	9490.8	9505.9	9521.0	9505.9	9498.4	9483.3	9475.7	9483.3	9505.9
7.5°	9649.3	9664.3	9656.8	9649.3	9641.7	9588.9	9536.1	9513.5	9513.5	9536.1	9596.4
10°	9815.2	9845.4	9807.7	9777.5	9724.7	9641.7	9551.2	9498.4	9513.5	9558.7	9634.2
12.5°	10026.5	10026.5	9988.8	9958.6	9837.9	9739.8	9619.1	9536.1	9536.1	9619.1	9702.1
15°	10283.0	10260.4	10245.3	10162.3	10018.9	9860.5	9709.6	9588.9	9566.3	9694.5	9747.3
17.5°	10607.4	10524.4	10486.7	10343.3	10147.2	9943.5	9739.8	9641.7	9573.8	9709.6	9649.3
20°	11052.5	10992.2	10871.4	10645.1	10245.3	9981.2	9739.8	9611.5	9558.7	9634.2	9573.8
22.5°	11625.9	11588.2	11316.6	11029.9	10501.8	10011.4	9702.1	9528.6	9513.5	9475.7	9347.5
25°	12327.5	12229.4	11950.3	11542.9	10886.5	10305.6	9694.5	9377.7	9324.9	9226.8	9000.4
27.5°	12923.5	12817.9	12478.4	12116.3	11414.6	10743.2	9754.9	9196.6	9136.2	9068.3	8789.2
30°	12953.7	12999.0	12908.4	12636.8	11905.0	10924.3	9860.5	9143.8	9008.0	8766.6	8434.6
32.5°	12342.6	12448.2	12667.0	12765.1	12274.7	11143.0	9951.0	9166.4	8917.5	8336.5	8064.9
35°	10252.8	10464.1	11361.8	12206.8	12380.3	11459.9	10026.5	9166.4	8887.3	8027.2	7816.0
37.5°	7876.3	8049.9	8811.8	10343.3	11912.6	11656.1	10192.5	9113.6	8849.6	8049.9	7763.2
40°	6435.4	6533.4	6865.4	7906.5	10267.9	11331.7	10358.4	9174.0	8736.4	8064.9	7793.3
42.5°	6043.0	6035.5	5967.6	6352.4	7831.1	10381.1	10471.6	9324.9	8547.8	7966.9	7740.5
45°	5779.0	5763.9	5703.6	5779.0	6193.9	8495.0	10388.6	9596.4	8313.9	7619.8	7468.9
47.5°	5492.3	5499.9	5477.2	5507.4	5432.0	6450.4	9920.9	9709.6	7914.1	7038.9	6986.1
50°	4805.8	4918.9	5220.7	5250.9	5054.7	5205.6	8495.0	9656.8	7627.4	6872.9	6827.7
52.5°	2987.6	3168.6	4058.9	4813.3	4700.1	4700.1	6480.6	9732.2	7114.3	6812.6	6842.8
55°	1056.2	1192.0	2172.8	3312.0	4209.8	4292.8	5122.6	8660.9	7054.0	6918.2	6948.4
57.5°	264.1	324.4	663.9	1433.4	2836.7	3892.9	4579.4	7152.1	5356.5	5167.9	5243.3
60°	309.3	301.8	414.9	460.2	1101.5	3078.1	4126.8	4828.4	3455.3	3236.5	3274.3
62.5°	332.0	309.3	324.4	407.4	181.1	1508.9	3289.3	2874.4	1425.9	1056.2	1116.6
65°	294.2	279.1	256.5	377.2	128.3	279.1	1938.9	845.0	203.7	324.4	294.2
67.5°	196.2	203.7	211.2	301.8	120.7	120.7	256.5	211.2	143.3	294.2	256.5
70°	113.2	120.7	143.3	181.1	120.7	98.1	113.2	173.5	120.7	294.2	256.5
72.5°	67.9	67.9	67.9	75.4	120.7	83.0	75.4	143.3	105.6	271.6	256.5
75°	52.8	52.8	52.8	45.3	105.6	52.8	52.8	113.2	90.5	196.2	196.2
77.5°	45.3	45.3	45.3	37.7	60.4	45.3	45.3	83.0	83.0	98.1	113.2
80°	30.2	30.2	30.2	30.2	37.7	37.7	30.2	45.3	37.7	45.3	52.8
82.5°	15.1	22.6	22.6	15.1	22.6	22.6	22.6	30.2	22.6	30.2	30.2
85°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	15.1	7.5	7.5	15.1
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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REPORT NUMBER: P980936
CATALOG NUMBER: NFFLD-C70-7022-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0	9438.0
2.5°	9430.5	9468.2	9521.0	9604.0	9634.2	9687.0	9732.2	9770.0	9770.0	9754.9
5°	9551.2	9656.8	9800.1	9928.4	9973.7	10026.5	10049.1	10086.8	10079.3	10071.7
7.5°	9656.8	9822.8	9973.7	10064.2	10049.1	9981.2	9935.9	9875.6	9853.0	9868.0
10°	9739.8	9890.7	9958.6	9898.2	9717.2	9558.7	9355.0	9219.2	9151.3	9174.0
12.5°	9770.0	9822.8	9762.4	9430.5	9204.1	9053.3	8887.3	8796.7	8759.0	8766.6
15°	9777.5	9656.8	9324.9	9075.9	8909.9	8721.3	8585.5	8502.5	8502.5	8510.1
17.5°	9619.1	9324.9	9038.2	8849.6	8615.7	8419.5	8344.1	8313.9	8125.3	8155.5
20°	9475.7	9053.3	8894.8	8600.6	8321.4	8193.2	7755.6	7710.4	7717.9	7725.4
22.5°	9174.0	8857.1	8713.8	8329.0	8012.1	7657.5	7597.2	7551.9	7559.5	7559.5
25°	8759.0	8578.0	8381.8	7982.0	7597.2	7529.3	7484.0	7423.7	7393.5	7401.0
27.5°	8525.1	8298.8	7936.7	7597.2	7348.2	7378.4	7325.6	7235.1	7235.1	7242.6
30°	*8230.9*	*8012.1*	*7529.3*	*7129.4*	*7152.1*	*7197.3*	*7069.1*	*7023.8*	*7001.2*	*7001.2*
32.5°	7868.8	7567.0	7144.5	6767.3	6903.1	6888.0	6729.6	6744.7	6759.8	6744.7
35°	7597.2	7204.9	6850.3	6646.6	6593.8	6533.4	6450.4	6503.3	6525.9	6510.8
37.5°	7529.3	7061.5	6691.9	6548.5	6344.8	6231.7	6254.3	6307.1	6337.3	6329.7
40°	7506.7	6918.2	6556.1	6405.2	6133.6	6035.5	6065.7	6171.3	6209.0	6201.5
42.5°	7476.5	6820.1	6473.1	6292.0	5914.8	5846.9	5990.2	6088.3	6095.9	6088.3
45°	7318.0	6714.5	6420.3	6058.1	5582.8	5665.8	5846.9	5899.7	5809.2	5771.4
47.5°	6948.4	6518.3	6261.8	5771.4	5311.2	5469.7	5492.3	4918.9	4587.0	4511.5
50°	6842.8	6525.9	6080.8	5432.0	5145.3	5303.7	4315.4	3296.9	2882.0	2799.0
52.5°	6812.6	6450.4	6148.7	5077.4	5084.9	4473.8	2723.5	1614.5	1297.6	1237.3
55°	6888.0	6782.4	6261.8	4866.1	4730.3	2912.1	1267.5	762.0	784.6	762.0
57.5°	5198.1	5673.4	6397.6	4534.2	3455.3	1403.3	799.7	739.3	686.5	671.4
60°	3244.1	3696.7	4685.1	3900.4	1772.9	837.4	814.8	686.5	663.9	656.4
62.5°	1071.3	1644.7	2685.8	2565.1	490.4	829.9	822.3	611.1	611.1	611.1
65°	271.6	279.1	739.3	882.7	362.1	739.3	784.6	573.4	558.3	580.9
67.5°	233.9	211.2	392.3	347.0	301.8	513.0	686.5	550.7	520.6	520.6
70°	233.9	249.0	384.8	324.4	188.6	279.1	497.9	339.5	301.8	279.1
72.5°	218.8	241.4	339.5	294.2	128.3	135.8	218.8	113.2	105.6	90.5
75°	188.6	196.2	264.1	264.1	135.8	67.9	90.5	75.4	75.4	67.9
77.5°	128.3	98.1	150.9	188.6	98.1	45.3	37.7	37.7	37.7	30.2
80°	67.9	37.7	37.7	30.2	37.7	37.7	22.6	30.2	30.2	22.6
82.5°	37.7	22.6	22.6	15.1	15.1	22.6	15.1	15.1	15.1	15.1
85°	15.1	15.1	7.5	7.5	7.5	15.1	7.5	7.5	7.5	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.5
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: SP1-2501-319-8

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7022-66

Data in this report applies to families of products including NFFLD-C55-7022-66

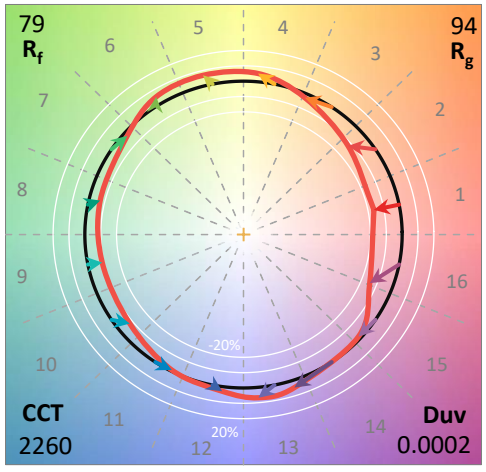
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-319-8
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-C55-7022-66**
Description:	LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K):	2260	CRI (Ra):	72.8		
CIE u':	0.2861	R1:	70.2	R9:	-28.5
CIE v':	0.5354	R2:	88.0	R10:	76.1
Duv:	0.0002	R3:	89.4	R11:	65.3
CIE x:	0.5000	R4:	67.3	R12:	73.8
CIE y:	0.4158	R5:	70.5	R13:	73.9
CIE z:	0.0842	R6:	87.8	R14:	94.5
Peak Wavelength (nm):	604	R7:	71.9	R15:	60.0
Dominant Wavelength (nm):	586	R8:	36.8		
Purity:	74.90898				
Rf:	78.7				
Rg:	93.7				



Test Conditions

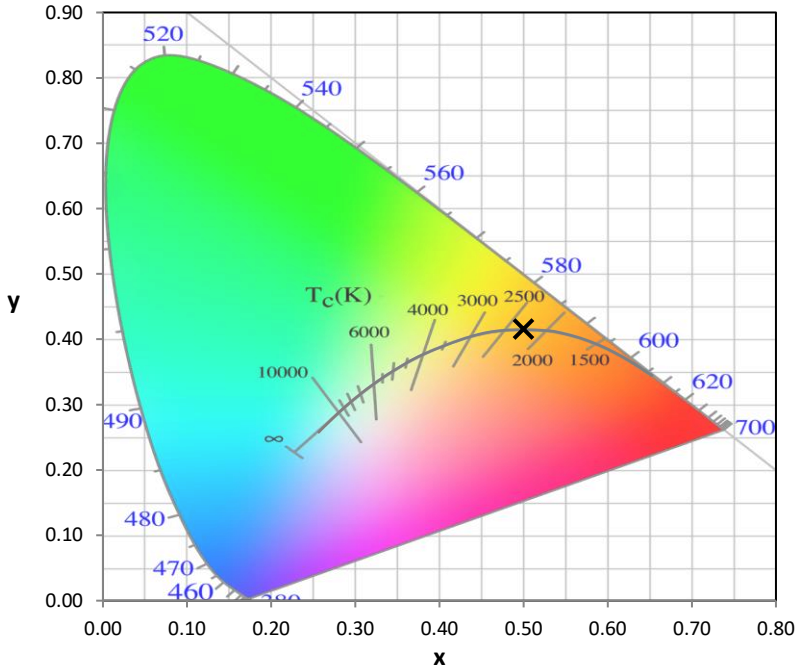
Stabilization Time:	59M
Operation Time:	1H 59M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-319-8

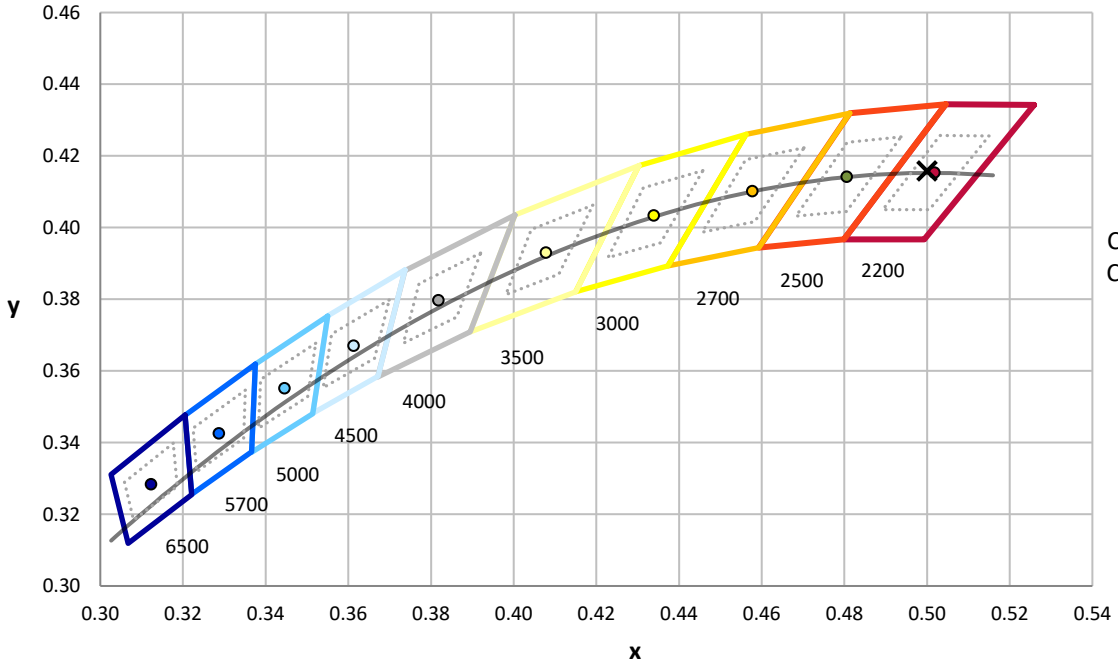
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/212025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-319-8

CIE 1931 Chromaticity Diagram



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

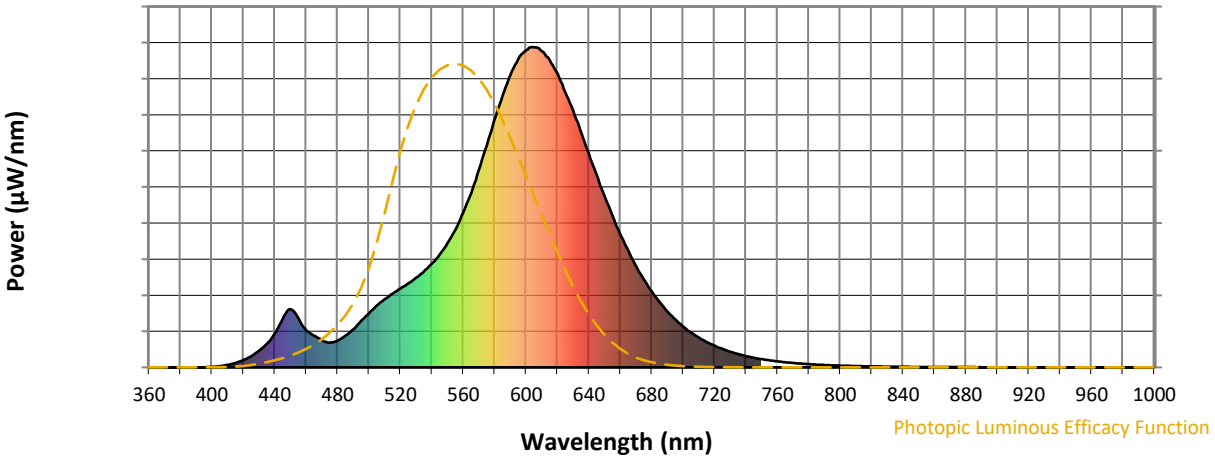


CCT = 2260K
CIE x = 0.5000
CIE y = 0.4158
Duv = 0.0002

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-8

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	118	NR	620	917	NR	750	26	NR	880	1	NR
365	0	NR	495	145	NR	625	859	NR	755	22	NR	885	1	NR
370	0	NR	500	169	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	193	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	213	NR	640	667	NR	770	14	NR	900	0	NR
385	0	NR	515	230	NR	645	600	NR	775	12	NR	905	0	NR
390	0	NR	520	246	NR	650	534	NR	780	10	NR	910	0	NR
395	0	NR	525	262	NR	655	473	NR	785	8	NR	915	0	NR
400	2	NR	530	280	NR	660	416	NR	790	7	NR	920	0	NR
405	4	NR	535	299	NR	665	364	NR	795	6	NR	925	0	NR
410	8	NR	540	324	NR	670	316	NR	800	5	NR	930	0	NR
415	14	NR	545	352	NR	675	274	NR	805	5	NR	935	0	NR
420	23	NR	550	388	NR	680	237	NR	810	4	NR	940	0	NR
425	35	NR	555	429	NR	685	204	NR	815	4	NR	945	0	NR
430	52	NR	560	482	NR	690	174	NR	820	3	NR	950	0	NR
435	74	NR	565	543	NR	695	150	NR	825	3	NR	955	0	NR
440	105	NR	570	616	NR	700	128	NR	830	2	NR	960	0	NR
445	151	NR	575	692	NR	705	109	NR	835	2	NR	965	0	NR
450	182	NR	580	773	NR	710	93	NR	840	2	NR	970	0	NR
455	154	NR	585	847	NR	715	79	NR	845	2	NR	975	0	NR
460	116	NR	590	913	NR	720	68	NR	850	1	NR	980	0	NR
465	99	NR	595	962	NR	725	58	NR	855	1	NR	985	0	NR
470	84	NR	600	990	NR	730	49	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	84	NR	610	986	NR	740	35	NR	870	1	NR	1000	0	NR
485	99	NR	615	960	NR	745	30	NR	875	1	NR			

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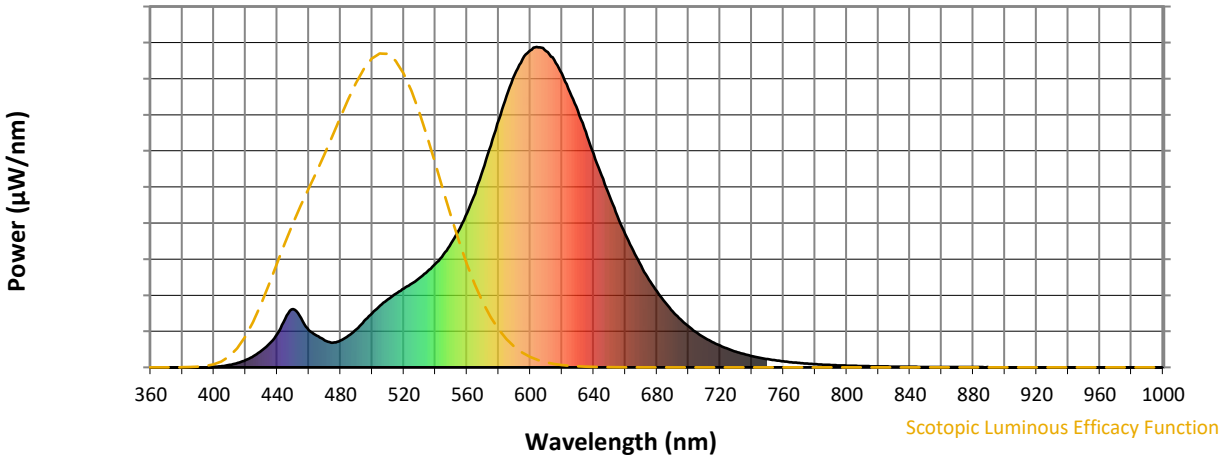
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.95**

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	118	NR	620	917	NR	750	26	NR	880	1	NR
365	0	NR	495	145	NR	625	859	NR	755	22	NR	885	1	NR
370	0	NR	500	169	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	193	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	213	NR	640	667	NR	770	14	NR	900	0	NR
385	0	NR	515	230	NR	645	600	NR	775	12	NR	905	0	NR
390	0	NR	520	246	NR	650	534	NR	780	10	NR	910	0	NR
395	0	NR	525	262	NR	655	473	NR	785	8	NR	915	0	NR
400	2	NR	530	280	NR	660	416	NR	790	7	NR	920	0	NR
405	4	NR	535	299	NR	665	364	NR	795	6	NR	925	0	NR
410	8	NR	540	324	NR	670	316	NR	800	5	NR	930	0	NR
415	14	NR	545	352	NR	675	274	NR	805	5	NR	935	0	NR
420	23	NR	550	388	NR	680	237	NR	810	4	NR	940	0	NR
425	35	NR	555	429	NR	685	204	NR	815	4	NR	945	0	NR
430	52	NR	560	482	NR	690	174	NR	820	3	NR	950	0	NR
435	74	NR	565	543	NR	695	150	NR	825	3	NR	955	0	NR
440	105	NR	570	616	NR	700	128	NR	830	2	NR	960	0	NR
445	151	NR	575	692	NR	705	109	NR	835	2	NR	965	0	NR
450	182	NR	580	773	NR	710	93	NR	840	2	NR	970	0	NR
455	154	NR	585	847	NR	715	79	NR	845	2	NR	975	0	NR
460	116	NR	590	913	NR	720	68	NR	850	1	NR	980	0	NR
465	99	NR	595	962	NR	725	58	NR	855	1	NR	985	0	NR
470	84	NR	600	990	NR	730	49	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	84	NR	610	986	NR	740	35	NR	870	1	NR	1000	0	NR
485	99	NR	615	960	NR	745	30	NR	875	1	NR			

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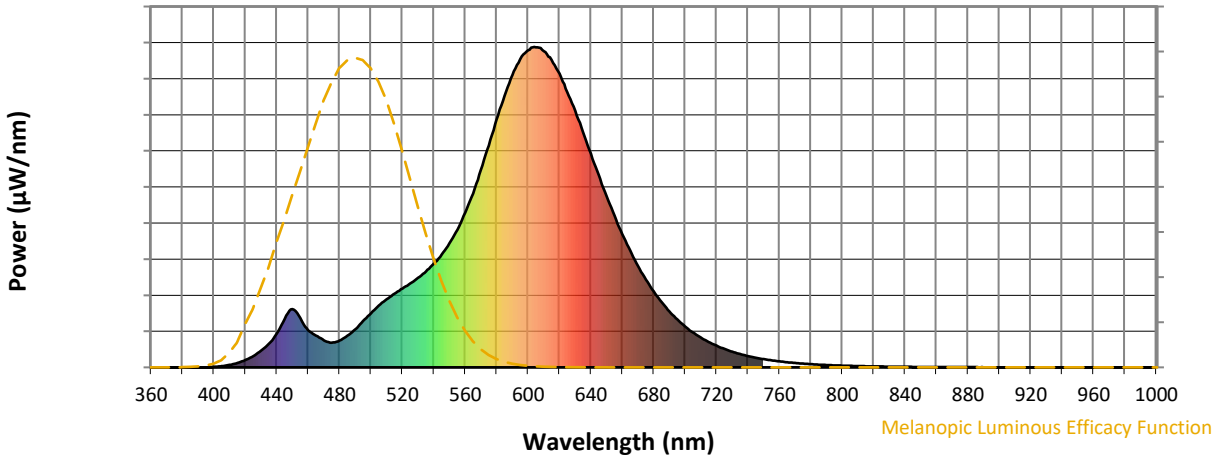
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.64**

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	118	NR	620	917	NR	750	26	NR	880	1	NR
365	0	NR	495	145	NR	625	859	NR	755	22	NR	885	1	NR
370	0	NR	500	169	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	193	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	213	NR	640	667	NR	770	14	NR	900	0	NR
385	0	NR	515	230	NR	645	600	NR	775	12	NR	905	0	NR
390	0	NR	520	246	NR	650	534	NR	780	10	NR	910	0	NR
395	0	NR	525	262	NR	655	473	NR	785	8	NR	915	0	NR
400	2	NR	530	280	NR	660	416	NR	790	7	NR	920	0	NR
405	4	NR	535	299	NR	665	364	NR	795	6	NR	925	0	NR
410	8	NR	540	324	NR	670	316	NR	800	5	NR	930	0	NR
415	14	NR	545	352	NR	675	274	NR	805	5	NR	935	0	NR
420	23	NR	550	388	NR	680	237	NR	810	4	NR	940	0	NR
425	35	NR	555	429	NR	685	204	NR	815	4	NR	945	0	NR
430	52	NR	560	482	NR	690	174	NR	820	3	NR	950	0	NR
435	74	NR	565	543	NR	695	150	NR	825	3	NR	955	0	NR
440	105	NR	570	616	NR	700	128	NR	830	2	NR	960	0	NR
445	151	NR	575	692	NR	705	109	NR	835	2	NR	965	0	NR
450	182	NR	580	773	NR	710	93	NR	840	2	NR	970	0	NR
455	154	NR	585	847	NR	715	79	NR	845	2	NR	975	0	NR
460	116	NR	590	913	NR	720	68	NR	850	1	NR	980	0	NR
465	99	NR	595	962	NR	725	58	NR	855	1	NR	985	0	NR
470	84	NR	600	990	NR	730	49	NR	860	1	NR	990	0	NR
475	77	NR	605	999	NR	735	42	NR	865	1	NR	995	0	NR
480	84	NR	610	986	NR	740	35	NR	870	1	NR	1000	0	NR
485	99	NR	615	960	NR	745	30	NR	875	1	NR			

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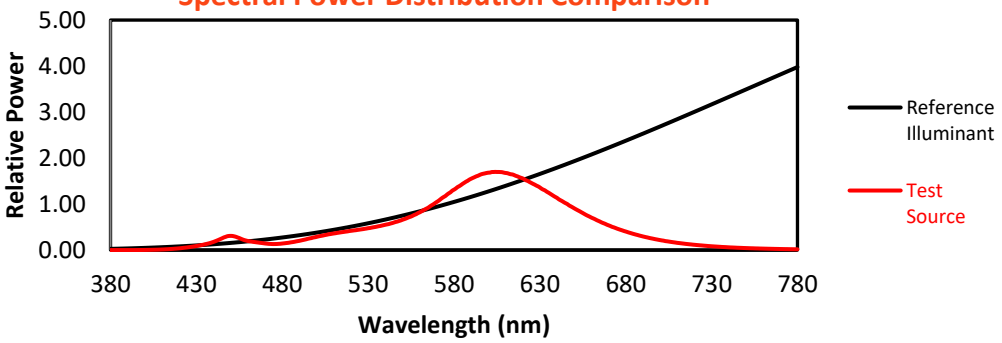
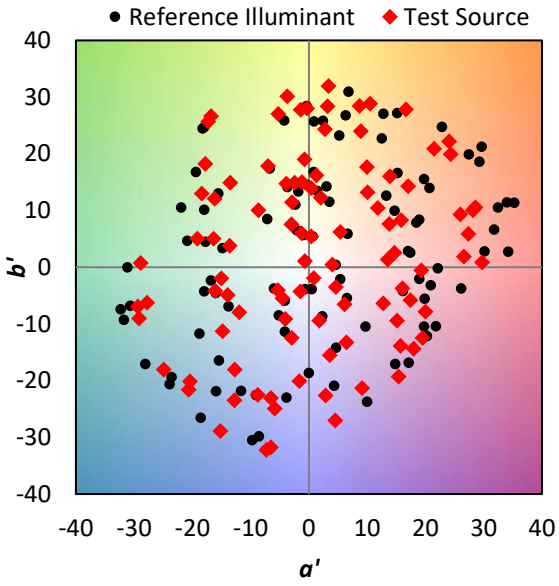
Summary

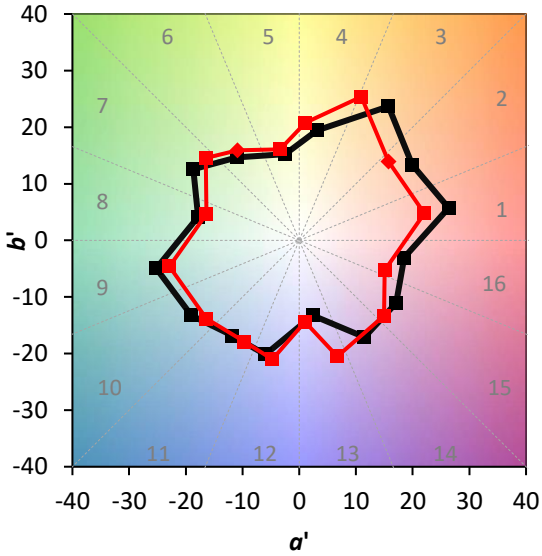
R_f = 78.7
R_g = 93.7
CIE R_a = 72.8
R_9 = -28.5

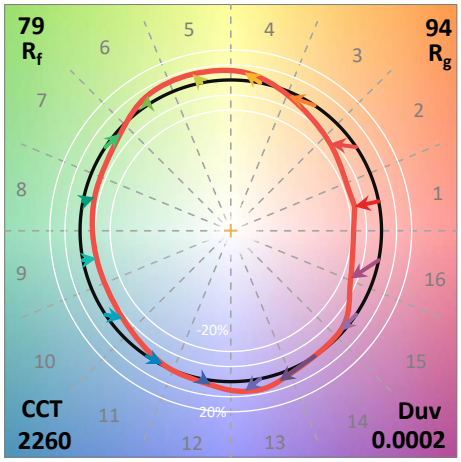
Spectral Power Distribution Comparison

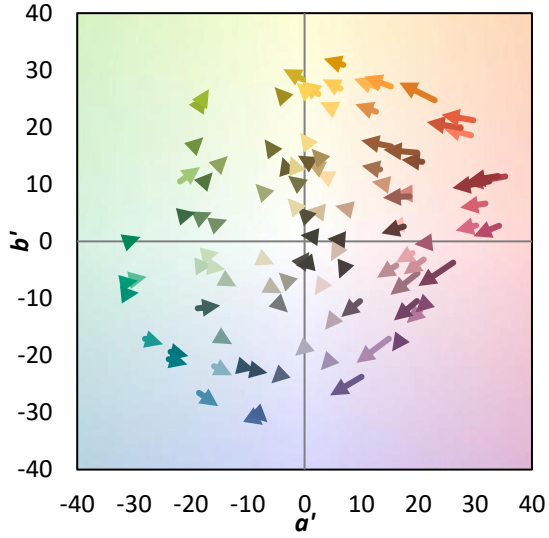


Color Vector Graphics









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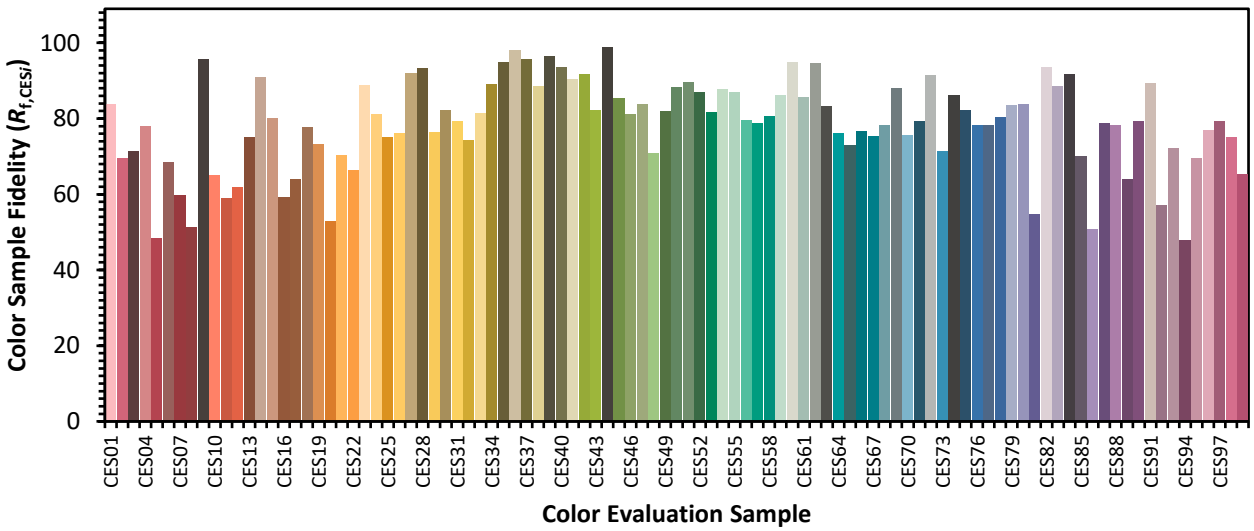
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 78
CES02 = 65	CES27 = 92	CES52 = 87	CES77 = 78
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 80
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 84
CES05 = 51	CES30 = 82	CES55 = 87	CES80 = 84
CES06 = 52	CES31 = 79	CES56 = 80	CES81 = 55
CES07 = 44	CES32 = 74	CES57 = 79	CES82 = 94
CES08 = 42	CES33 = 81	CES58 = 81	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 86	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 70
CES11 = 61	CES36 = 98	CES61 = 86	CES86 = 51
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 79
CES13 = 45	CES38 = 89	CES63 = 83	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 76	CES89 = 64
CES15 = 72	CES40 = 94	CES65 = 73	CES90 = 79
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 89
CES17 = 51	CES42 = 92	CES67 = 75	CES92 = 57
CES18 = 57	CES43 = 82	CES68 = 78	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 79	CES96 = 77
CES22 = 81	CES47 = 84	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 86	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 82	



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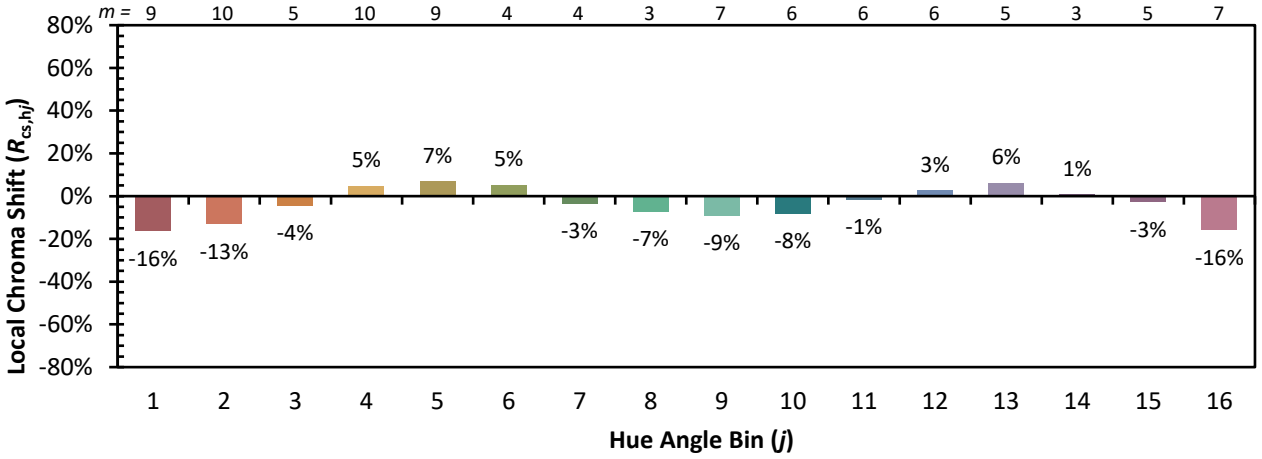
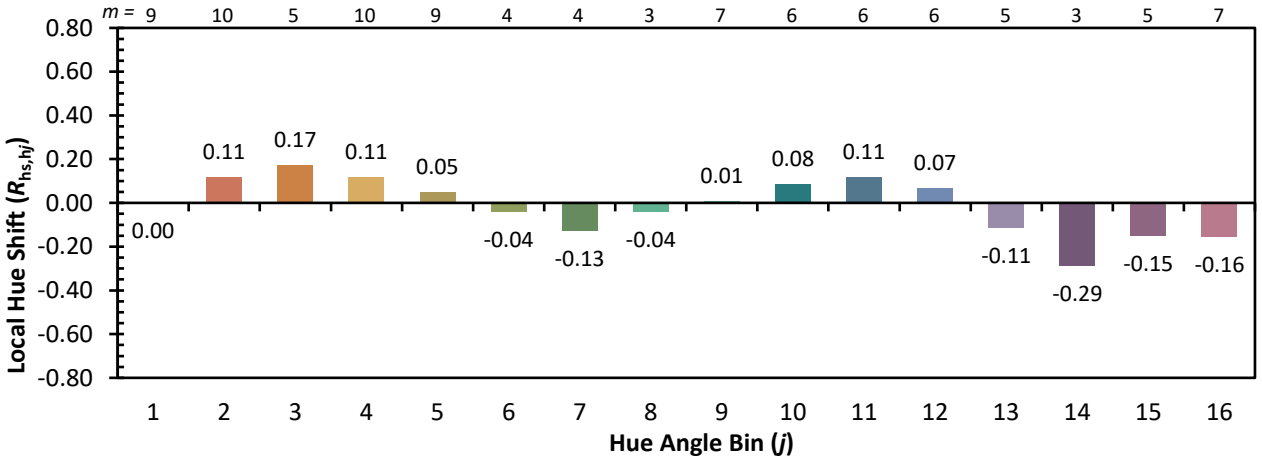
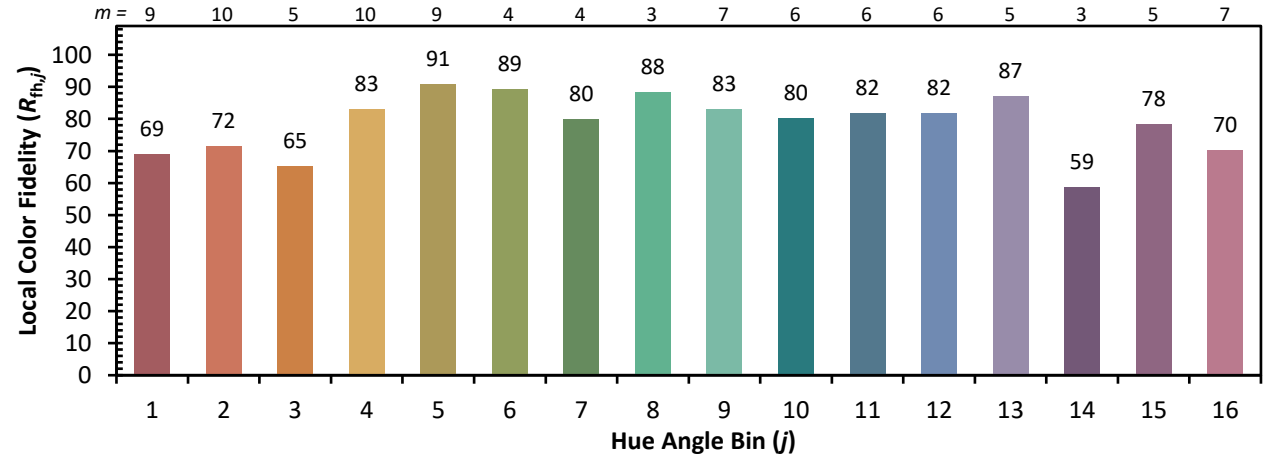
Color Rendition by Hue-Angle Bin







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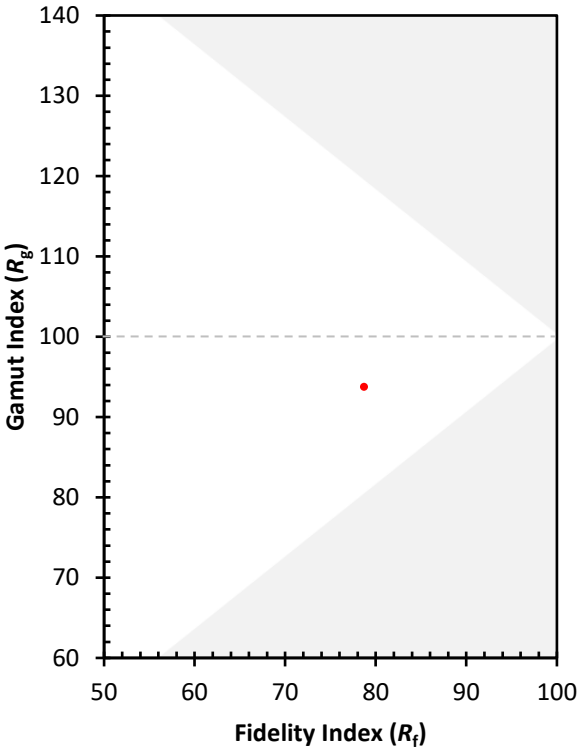
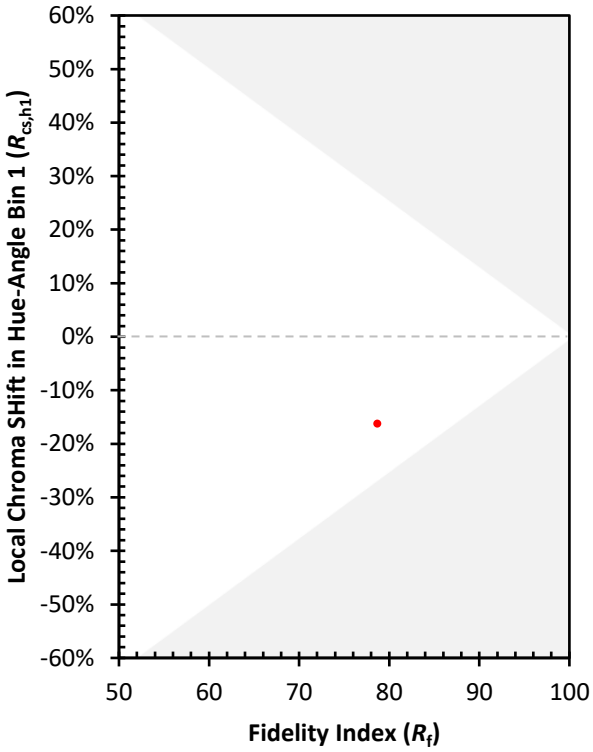
Measure Comparisons





(END OF REPORT)