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: P980962

Luminaire Tested: **NFFLD-L-C150-7030-66**

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:	P980962
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	04/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NFFLD-L-C150-7030-66
Description:	LUMARK NIGHT FALCON LARGE SIZE 320W 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:	47669 lumens
Efficiency:	N/A
Efficacy:	147.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.67' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B5 - U0 - G3

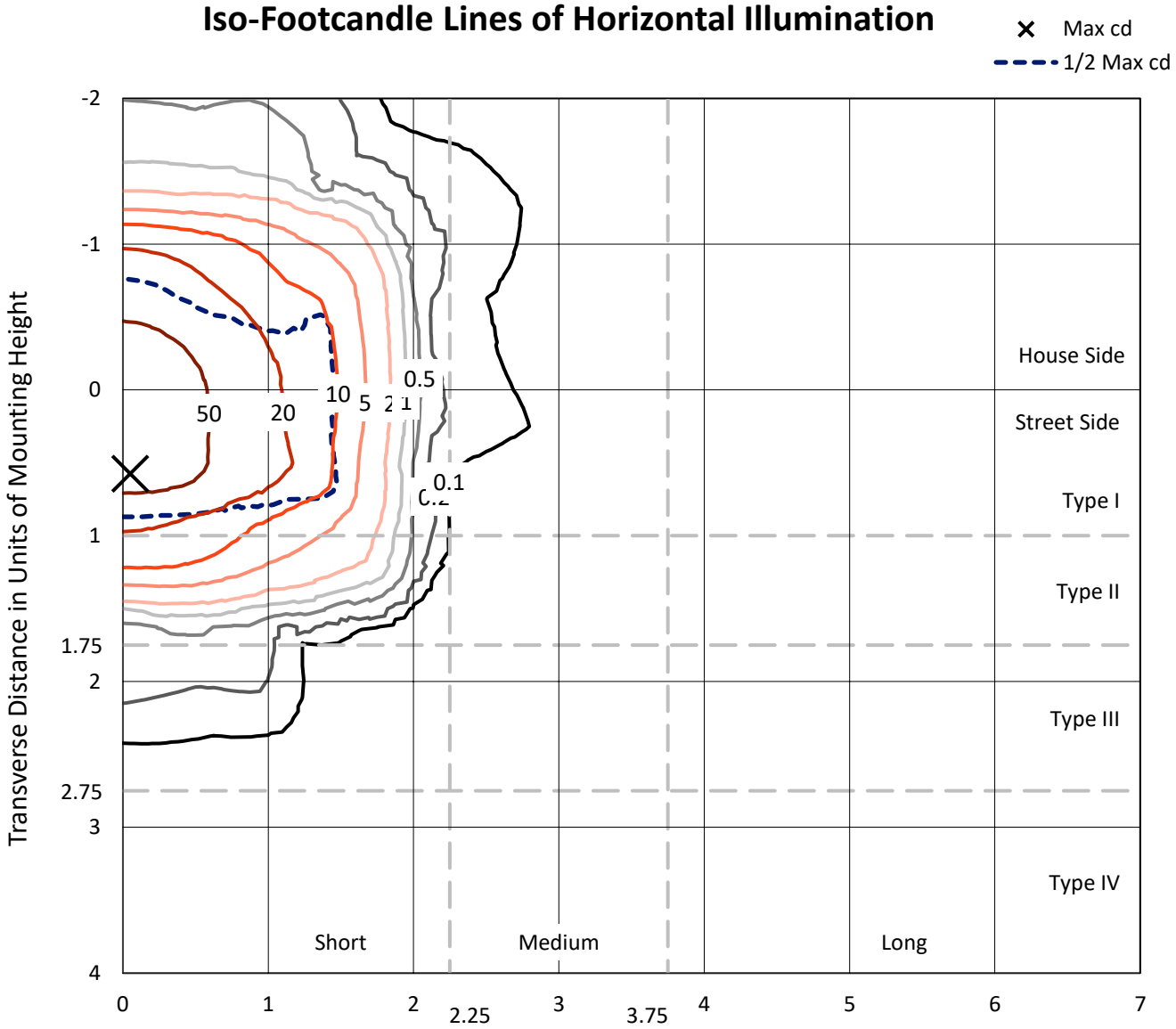
Input Watts (W):	324.1
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	2.79%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P980962
CATALOG NUMBER: NFFLD-L-C150-7030-66

Iso-Footcandle Lines of Horizontal Illumination



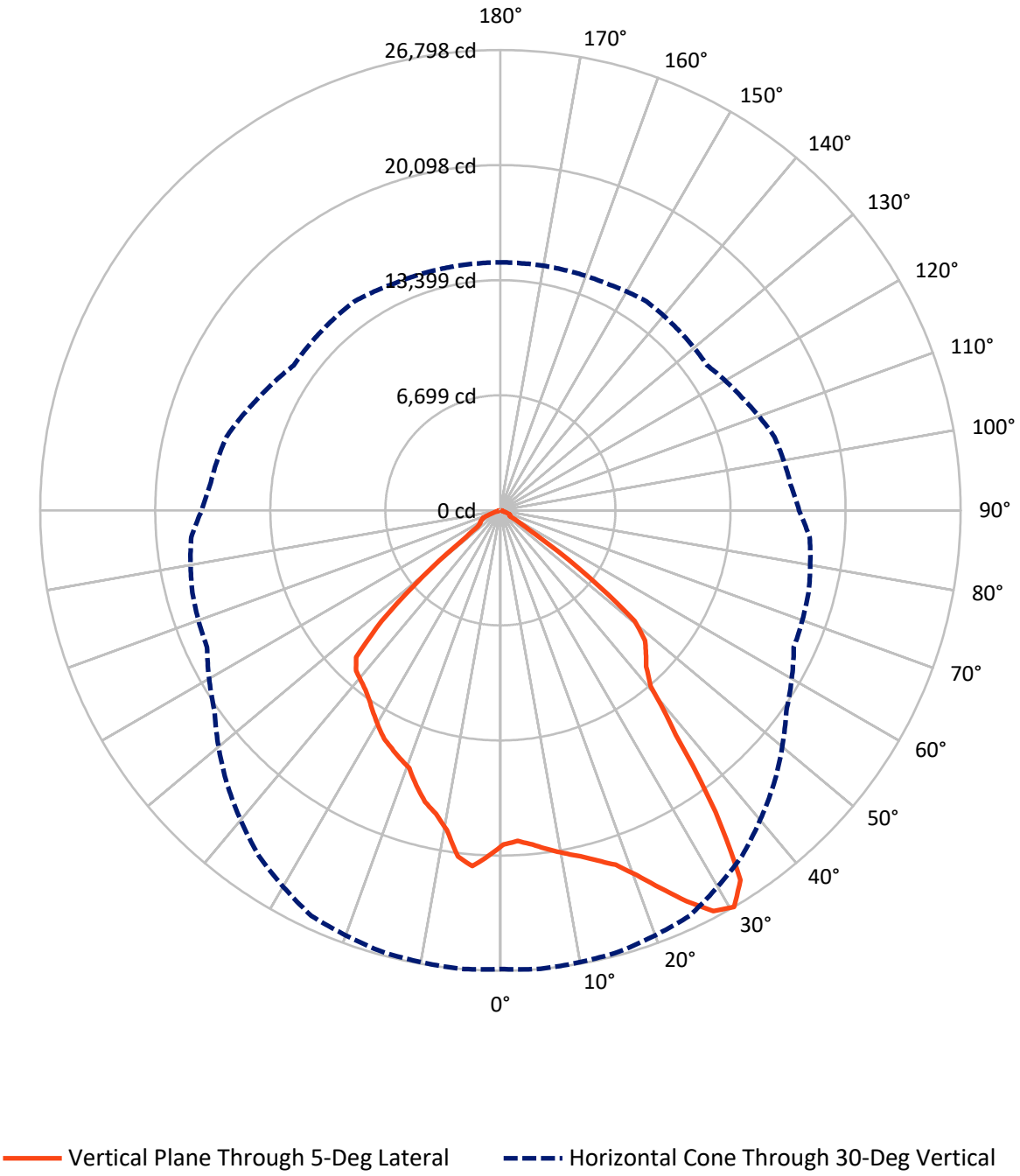
Based on 15 foot mounting height. Maximum calculated value = 88.6 fc
Type I - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P980962
CATALOG NUMBER: NFFLD-L-C150-7030-66

Luminous Intensity Polar Plot



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

Scaled Data Report

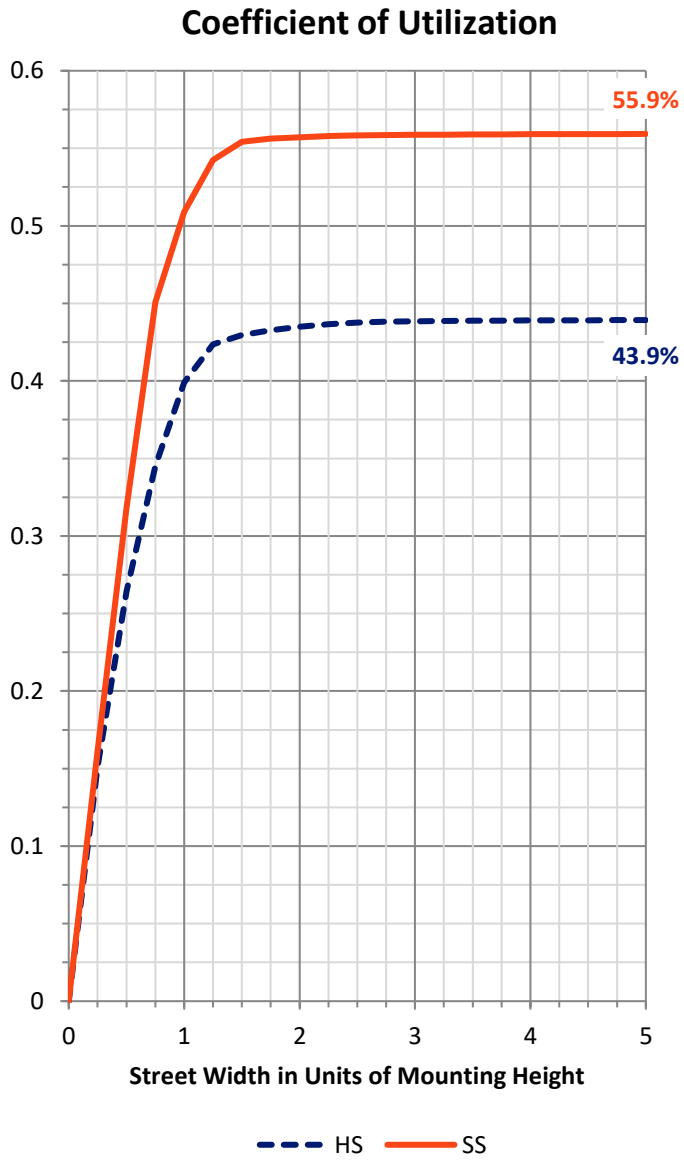
REPORT NUMBER: P980962
CATALOG NUMBER: NFFLD-L-C150-7030-66

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21083.5	0.0	21083.5
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	26585.5	0.0	26585.5
	% Fixture	55.8	0.0	55.8
Total	Lumens	47669.0	0.0	47669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1903.3	4.0
10°-20°	5513.7	11.6
20°-30°	8786.5	18.4
30°-40°	10984.5	23.0
40°-50°	10779.5	22.6
50°-60°	7706.7	16.2
60°-70°	1705.1	3.6
70°-80°	261.9	0.5
80°-90°	27.7	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°	47669.0	100.0
0°-180°	47669.0	100.0



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

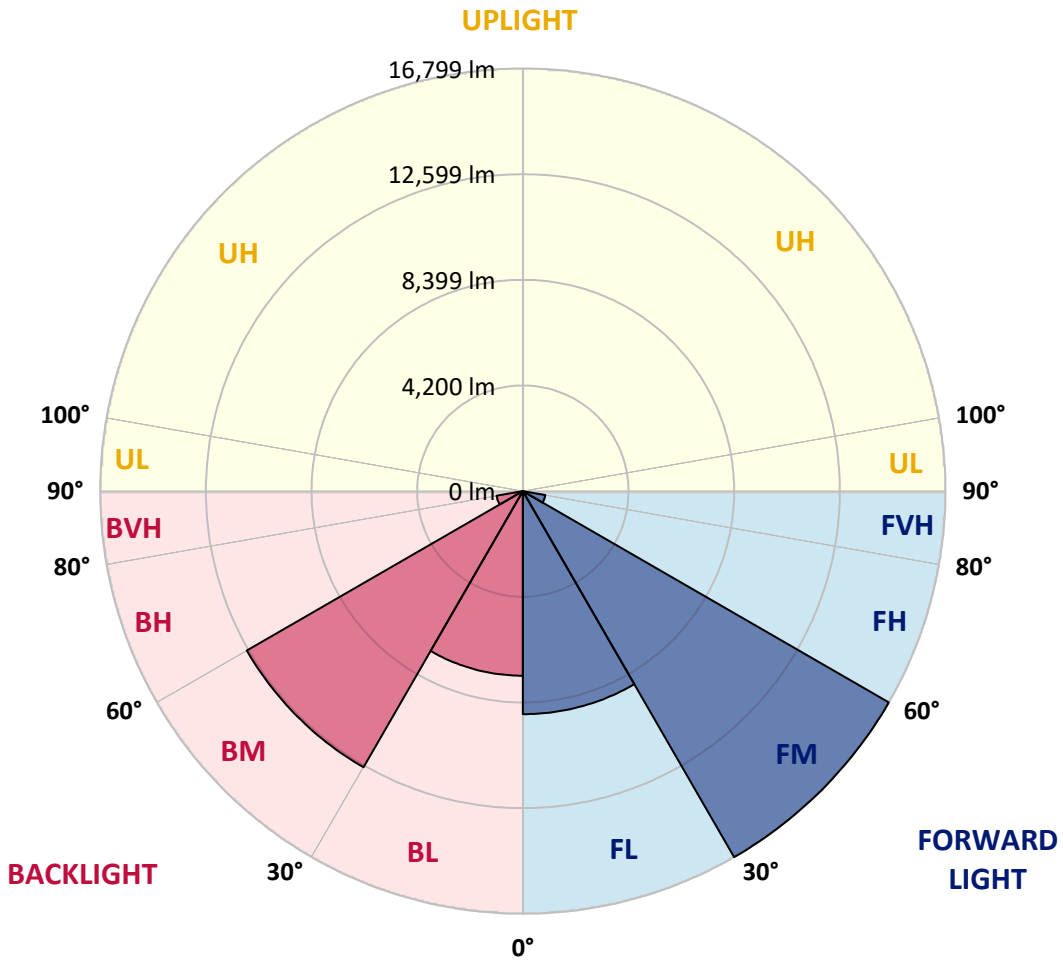
Scaled Data Report

REPORT NUMBER: P980962
CATALOG NUMBER: NFFLD-L-C150-7030-66

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	8866.0	18.6			
FM	(30°-60°)	16798.6	35.2			
FH	(60°-80°)	906.9	1.9			G1/1800
FVH	(80°-90°)	14.0	0.0			G1/100
BL	(0°-30°)	7337.5	15.4	B5		
BM	(30°-60°)	12672.2	26.6	B5		
BH	(60°-80°)	1060.1	2.2	B3/2500		G3/2500
BVH	(80°-90°)	13.7	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



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

Scaled Data Report

REPORT NUMBER: P980962
CATALOG NUMBER: NFFLD-L-C150-7030-66

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8
2.5°	19239.1	19270.2	19301.3	19348.0	19410.2	19441.3	19410.2	19379.1	19363.5	19394.6	19410.2
5°	19503.5	19550.2	19565.7	19596.8	19627.9	19596.8	19581.3	19550.2	19534.6	19550.2	19596.8
7.5°	19892.3	19923.4	19907.9	19892.3	19876.8	19767.9	19659.0	19612.4	19612.4	19659.0	19783.5
10°	20234.5	20296.7	20218.9	20156.7	20047.9	19876.8	19690.1	19581.3	19612.4	19705.7	19861.2
12.5°	20670.0	20670.0	20592.2	20530.0	20281.2	20079.0	19830.1	19659.0	19659.0	19830.1	20001.2
15°	21198.8	21152.1	21121.0	20949.9	20654.4	20327.8	20016.8	19767.9	19721.2	19985.6	20094.5
17.5°	21867.6	21696.5	21618.7	21323.2	20918.8	20498.9	20079.0	19876.8	19736.8	20016.8	19892.3
20°	22785.2	22660.8	22411.9	21945.3	21121.0	20576.7	20079.0	19814.6	19705.7	19861.2	19736.8
22.5°	23967.2	23889.5	23329.6	22738.5	21649.8	20638.9	20001.2	19643.5	19612.4	19534.6	19270.2
25°	25413.7	25211.5	24636.0	23796.1	22443.0	21245.4	19985.6	19332.4	19223.6	19021.4	18554.8
27.5°	26642.3	26424.6	25724.7	24978.2	23531.7	22147.5	20110.1	18959.1	18834.7	18694.7	18119.3
30°	26704.6	26797.9	26611.2	26051.3	24542.7	22520.8	20327.8	18850.3	18570.3	18072.6	17388.3
32.5°	25444.8	25662.5	26113.5	26315.7	25304.8	22971.8	20514.5	18896.9	18383.7	17186.1	16626.2
35°	21136.6	21572.1	23422.9	25164.8	25522.5	23625.1	20670.0	18896.9	18321.5	16548.4	16112.9
37.5°	16237.4	16595.1	18165.9	21323.2	24558.2	24029.4	21012.1	18788.1	18243.7	16595.1	16004.1
40°	13266.7	13468.9	14153.3	16299.6	21167.7	23360.7	21354.3	18912.5	18010.4	16626.2	16066.3
42.5°	12458.0	12442.4	12302.5	13095.7	16144.0	21401.0	21587.6	19223.6	17621.6	16424.0	15957.4
45°	11913.6	11882.5	11758.1	11913.6	12769.0	17512.7	21416.5	19783.5	17139.4	15708.6	15397.5
47.5°	11322.6	11338.2	11291.5	11353.7	11198.2	13297.8	20452.2	20016.8	16315.1	14511.0	14402.1
50°	9907.3	10140.6	10762.7	10824.9	10420.5	10731.6	17512.7	19907.9	15724.1	14168.8	14075.5
52.5°	6159.0	6532.3	8367.5	9922.8	9689.5	9689.5	13360.1	20063.4	14666.5	14044.4	14106.6
55°	2177.4	2457.4	4479.3	6827.8	8678.6	8849.7	10560.5	17854.9	14542.1	14262.1	14324.3
57.5°	544.4	668.8	1368.7	2955.1	5847.9	8025.4	9440.7	14744.3	11042.7	10653.8	10809.4
60°	637.7	622.1	855.4	948.7	2270.7	6345.6	8507.5	9953.9	7123.3	6672.3	6750.0
62.5°	684.3	637.7	668.8	839.9	373.3	3110.6	6781.1	5925.7	2939.5	2177.4	2301.8
65°	606.6	575.5	528.8	777.7	264.4	575.5	3997.1	1741.9	419.9	668.8	606.6
67.5°	404.4	419.9	435.5	622.1	248.8	248.8	528.8	435.5	295.5	606.6	528.8
70°	233.3	248.8	295.5	373.3	248.8	202.2	233.3	357.7	248.8	606.6	528.8
72.5°	140.0	140.0	140.0	155.5	248.8	171.1	155.5	295.5	217.7	559.9	528.8
75°	108.9	108.9	108.9	93.3	217.7	108.9	108.9	233.3	186.6	404.4	404.4
77.5°	93.3	93.3	93.3	77.8	124.4	93.3	93.3	171.1	171.1	202.2	233.3
80°	62.2	62.2	62.2	62.2	77.8	77.8	62.2	93.3	77.8	93.3	108.9
82.5°	31.1	46.7	46.7	31.1	46.7	46.7	46.7	62.2	46.7	62.2	62.2
85°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	31.1	15.6	15.6	31.1
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

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

Scaled Data Report

REPORT NUMBER: P980962
CATALOG NUMBER: NFFLD-L-C150-7030-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8	19456.8
2.5°	19441.3	19519.1	19627.9	19799.0	19861.2	19970.1	20063.4	20141.2	20141.2	20110.1
5°	19690.1	19907.9	20203.4	20467.8	20561.1	20670.0	20716.6	20794.4	20778.9	20763.3
7.5°	19907.9	20250.1	20561.1	20747.7	20716.6	20576.7	20483.3	20358.9	20312.3	20343.4
10°	20079.0	20390.0	20530.0	20405.6	20032.3	19705.7	19285.8	19005.8	18865.8	18912.5
12.5°	20141.2	20250.1	20125.6	19441.3	18974.7	18663.6	18321.5	18134.8	18057.1	18072.6
15°	20156.7	19907.9	19223.6	18710.3	18368.1	17979.3	17699.4	17528.3	17528.3	17543.8
17.5°	19830.1	19223.6	18632.5	18243.7	17761.6	17357.2	17201.7	17139.4	16750.6	16812.8
20°	19534.6	18663.6	18337.0	17730.5	17155.0	16890.6	15988.5	15895.2	15910.8	15926.3
22.5°	18912.5	18259.3	17963.8	17170.5	16517.3	15786.3	15661.9	15568.6	15584.1	15584.1
25°	18057.1	17683.8	17279.4	16455.1	15661.9	15521.9	15428.6	15304.2	15242.0	15257.5
27.5°	17574.9	17108.3	16361.8	15661.9	15148.7	15210.9	15102.0	14915.4	14915.4	14930.9
30°	*16968.4*	*16517.3*	*15521.9*	*14697.6*	*14744.3*	*14837.6*	*14573.2*	*14479.9*	*14433.2*	*14433.2*
32.5°	16221.8	15599.7	14728.7	13951.1	14231.0	14199.9	13873.3	13904.4	13935.5	13904.4
35°	15661.9	14853.1	14122.2	13702.2	13593.4	13468.9	13297.8	13406.7	13453.4	13422.3
37.5°	15521.9	14557.6	13795.5	13500.0	13080.1	12846.8	12893.5	13002.3	13064.5	13049.0
40°	15475.3	14262.1	13515.6	13204.5	12644.6	12442.4	12504.6	12722.4	12800.1	12784.6
42.5°	15413.1	14059.9	13344.5	12971.2	12193.6	12053.6	12349.1	12551.3	12566.9	12551.3
45°	15086.4	13842.2	13235.6	12489.1	11509.2	11680.3	12053.6	12162.5	11975.8	11898.1
47.5°	14324.3	13437.8	12909.0	11898.1	10949.3	11275.9	11322.6	10140.6	9456.2	9300.7
50°	14106.6	13453.4	12535.7	11198.2	10607.2	10933.8	8896.3	6796.7	5941.3	5770.2
52.5°	14044.4	13297.8	12675.7	10467.2	10482.7	9222.9	5614.6	3328.3	2675.1	2550.7
55°	14199.9	13982.2	12909.0	10031.7	9751.8	6003.5	2612.9	1570.9	1617.5	1570.9
57.5°	10716.0	11695.9	13189.0	9347.4	7123.3	2892.9	1648.6	1524.2	1415.3	1384.2
60°	6687.8	7621.0	9658.4	8040.9	3655.0	1726.4	1679.7	1415.3	1368.7	1353.1
62.5°	2208.5	3390.6	5536.9	5288.0	1010.9	1710.8	1695.3	1259.8	1259.8	1259.8
65°	559.9	575.5	1524.2	1819.7	746.5	1524.2	1617.5	1182.0	1150.9	1197.6
67.5°	482.1	435.5	808.8	715.4	622.1	1057.6	1415.3	1135.4	1073.2	1073.2
70°	482.1	513.3	793.2	668.8	388.8	575.5	1026.5	699.9	622.1	575.5
72.5°	451.0	497.7	699.9	606.6	264.4	280.0	451.0	233.3	217.7	186.6
75°	388.8	404.4	544.4	544.4	280.0	140.0	186.6	155.5	155.5	140.0
77.5°	264.4	202.2	311.1	388.8	202.2	93.3	77.8	77.8	77.8	62.2
80°	140.0	77.8	77.8	62.2	77.8	77.8	46.7	62.2	62.2	46.7
82.5°	77.8	46.7	46.7	31.1	31.1	46.7	31.1	31.1	31.1	31.1
85°	31.1	31.1	15.6	15.6	15.6	31.1	15.6	15.6	15.6	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

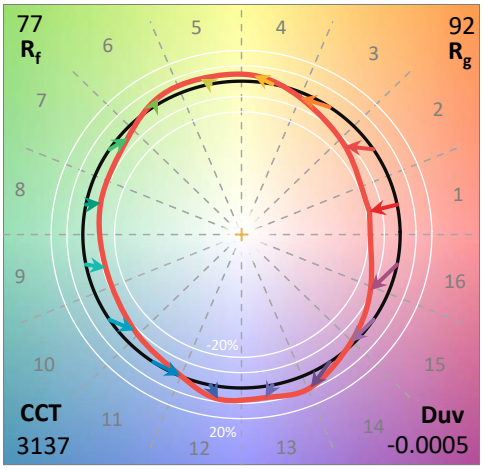
Test Information

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

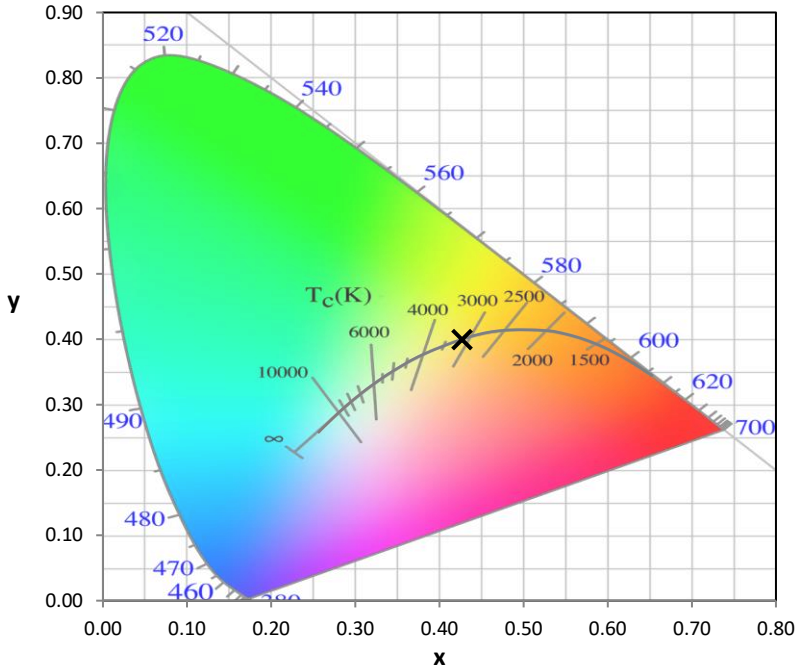
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-319-10

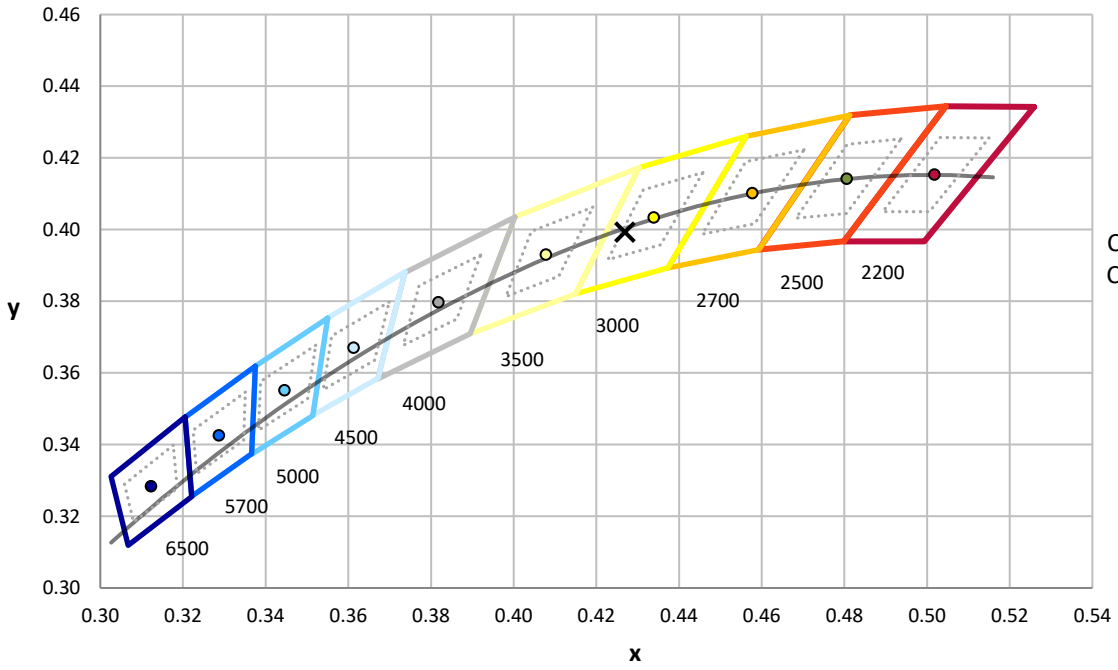
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/212025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

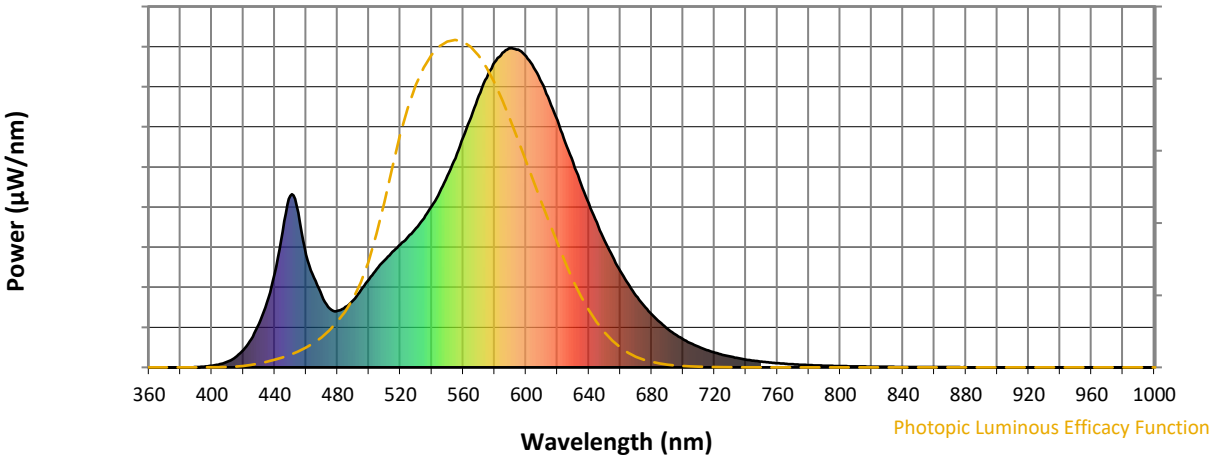


CCT = 3137K
CIE x = 0.4269
CIE y = 0.3993
Duv = -0.0005

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-10

Photopic Flux vs. Wavelength

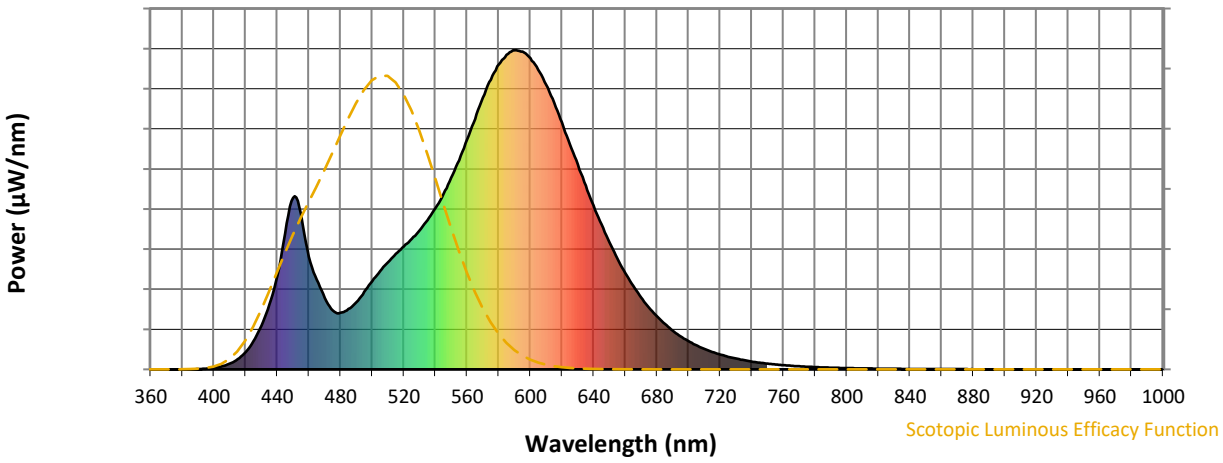


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2501-319-10

Scotopic Flux vs. Wavelength

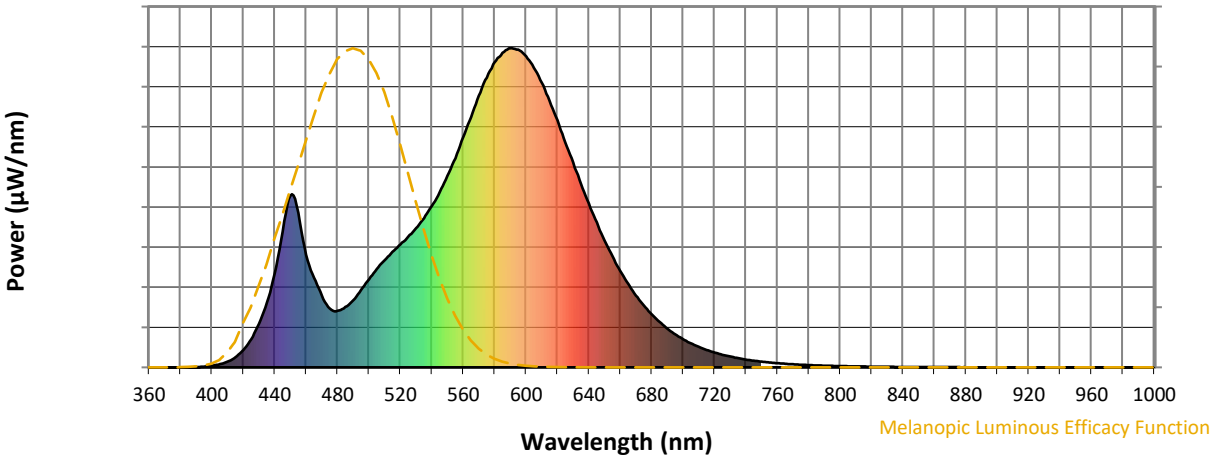


Scotopic Lumens: NR **S/P: 1.31**

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			

REPORT NUMBER: SP1-2501-319-10

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			

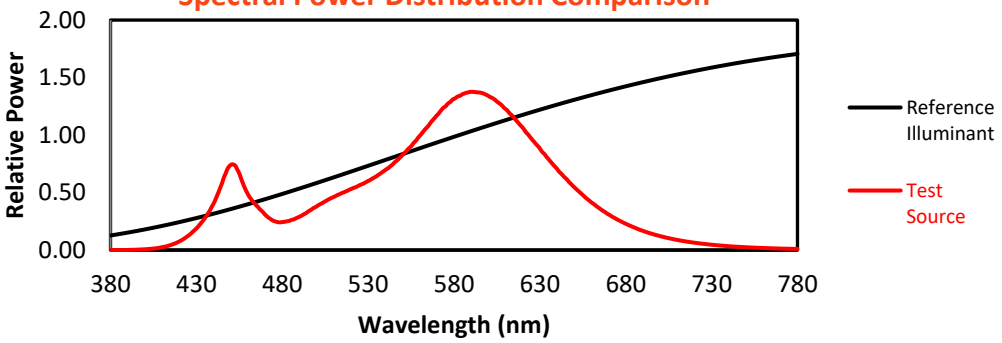
REPORT NUMBER: SP1-2501-319-10

TM-30-18

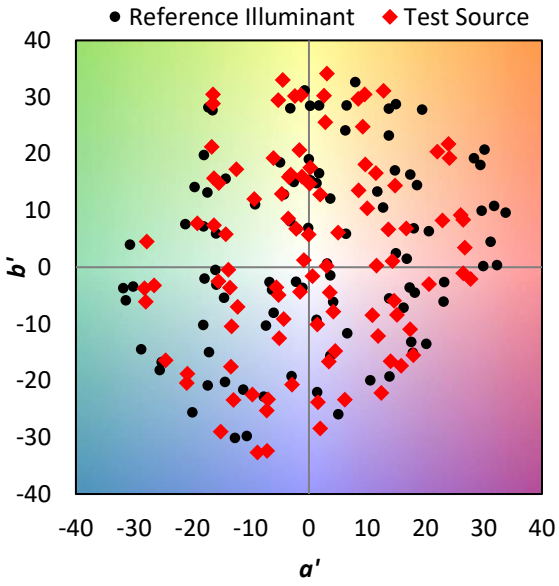
Summary

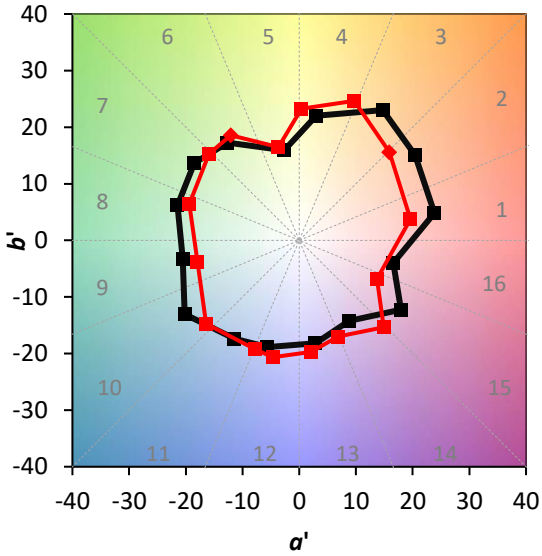
R_f = 76.5
R_g = 91.7
CIE R_a = 71.4
R_9 = -42.3

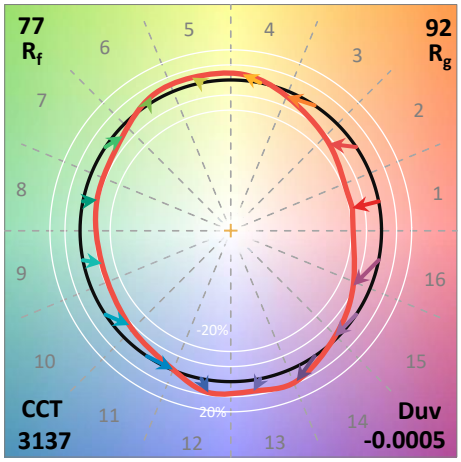
Spectral Power Distribution Comparison

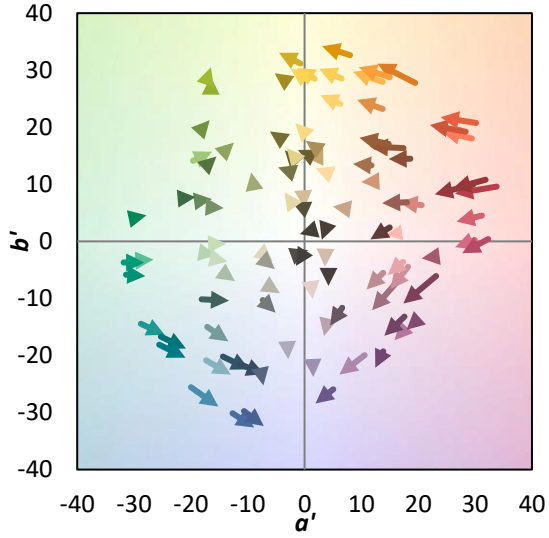


Color Vector Graphics







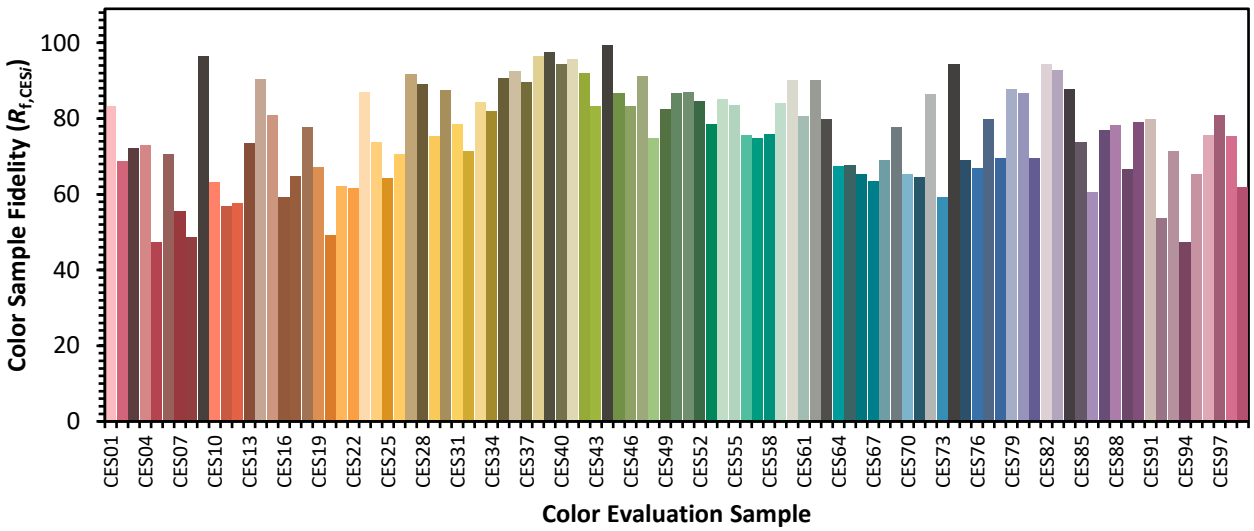


REPORT NUMBER: SP1-2501-319-10

TM-30-18

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

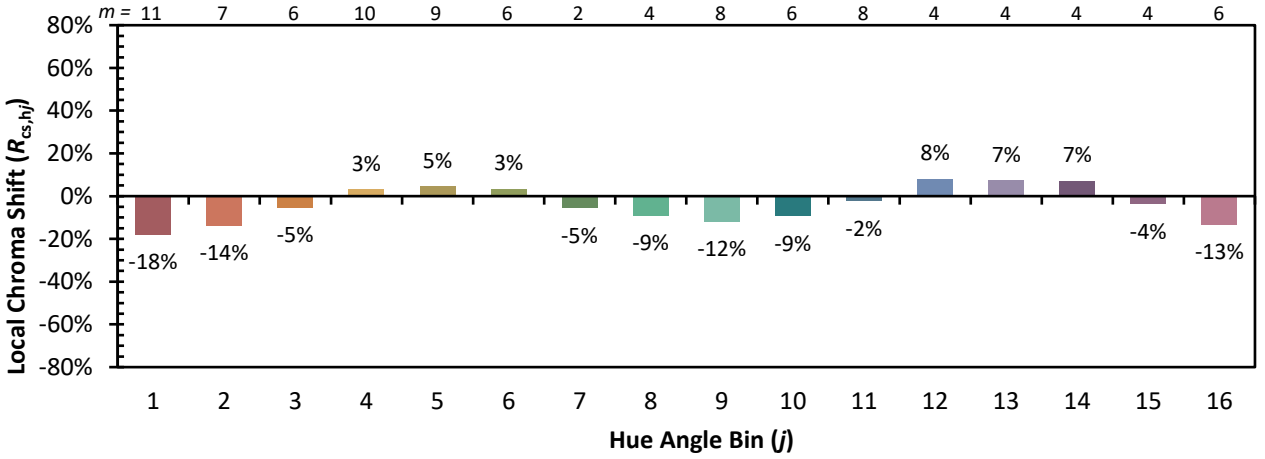
CES01 = 86	CES26 = 71	CES51 = 87	CES76 = 67
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 89	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 88
CES05 = 49	CES30 = 88	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 70
CES07 = 41	CES32 = 71	CES57 = 75	CES82 = 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	

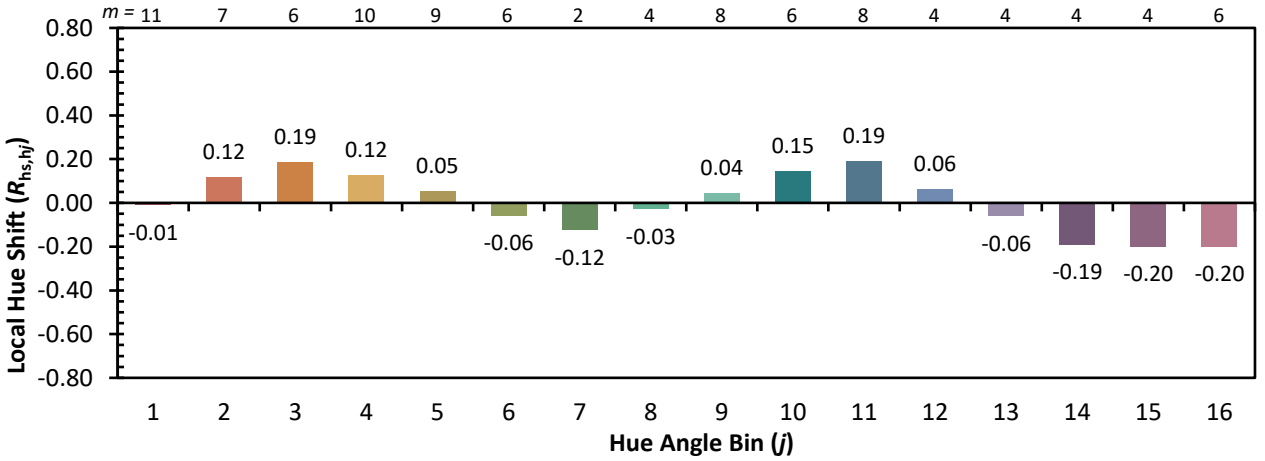


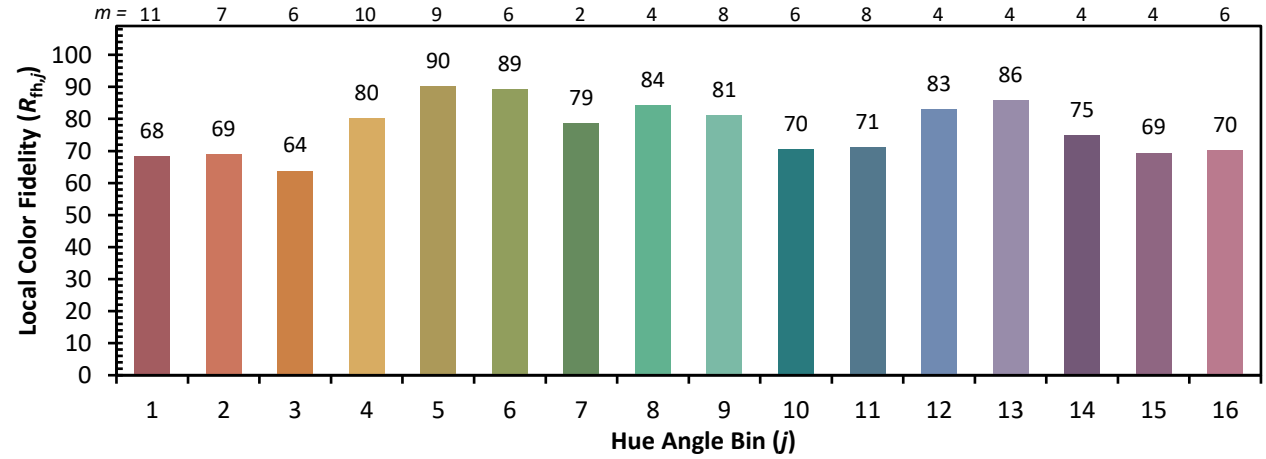
REPORT NUMBER: SP1-2501-319-10

TM-30-18

Color Rendition by Hue-Angle Bin



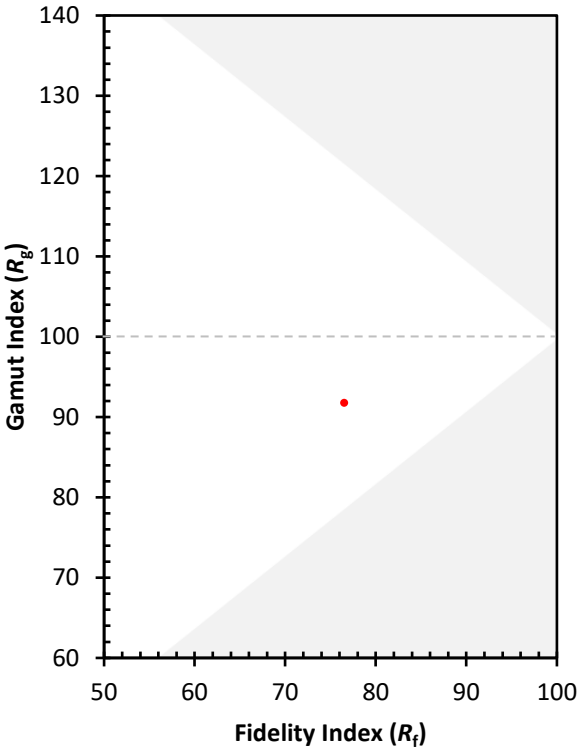


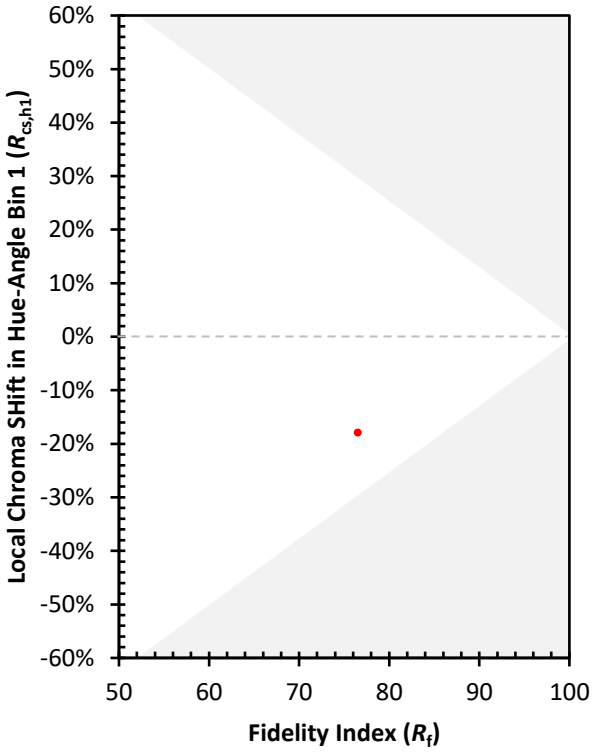


REPORT NUMBER: SP1-2501-319-10

TM-30-18

Measure Comparisons





(END OF REPORT)