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: P980931

Luminaire Tested: **NFFLD-S-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:	P980931
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	04/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NFFLD-S-C70-7022-66
Description:	LUMARK NIGHT FALCON SMALL SIZE 20W 70CRI 2200K LED FIXTURE NEMA 6
Light Source:	(1) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2574.5 lumens
Efficiency:	N/A
Efficacy:	134.1 lumens/watt
Luminous Opening:	Rectangular (W 0.42' x L: 0.31' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	19.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.25%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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REPORT NUMBER: P980931
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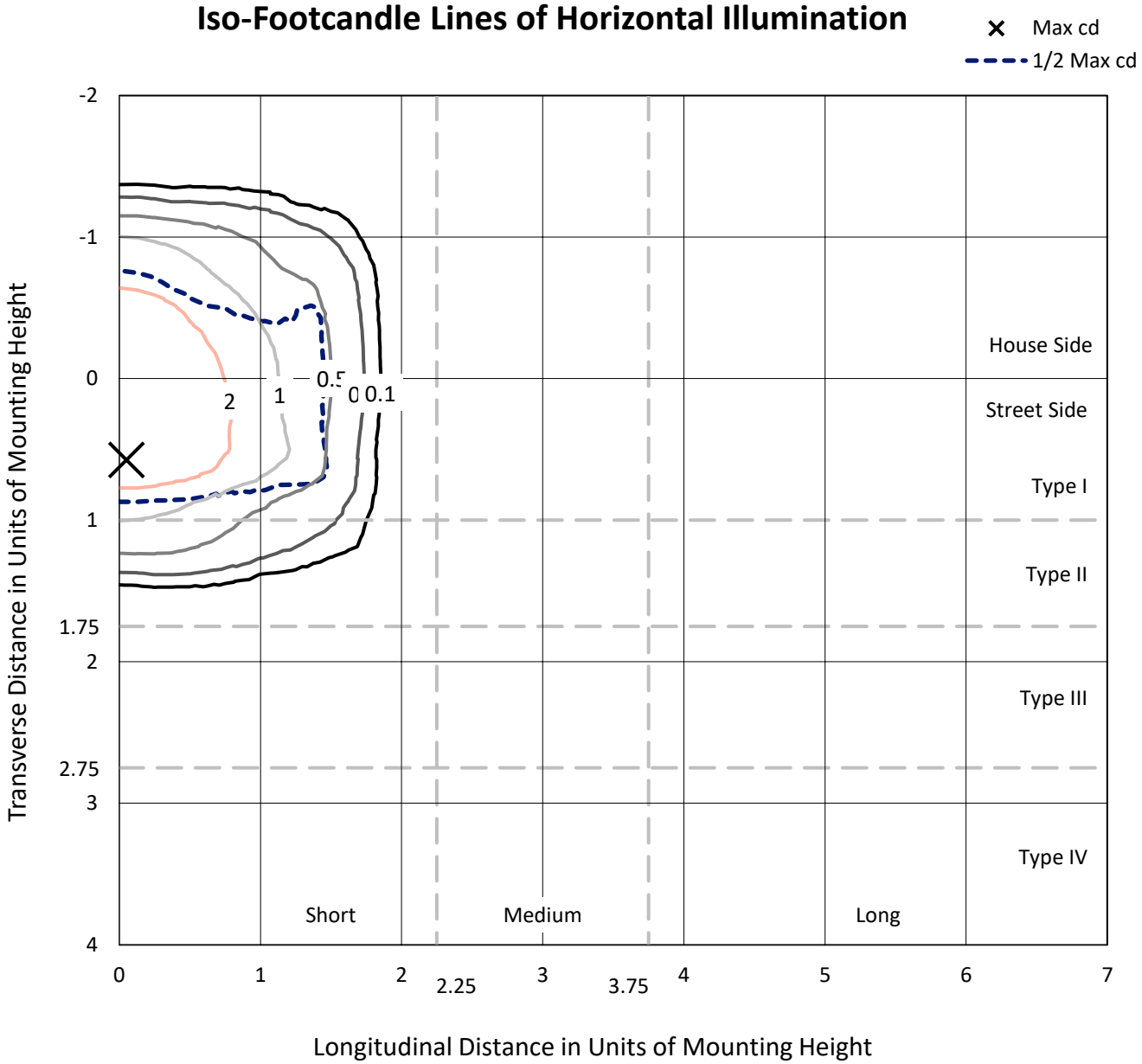
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc
Type I - Short - N/A

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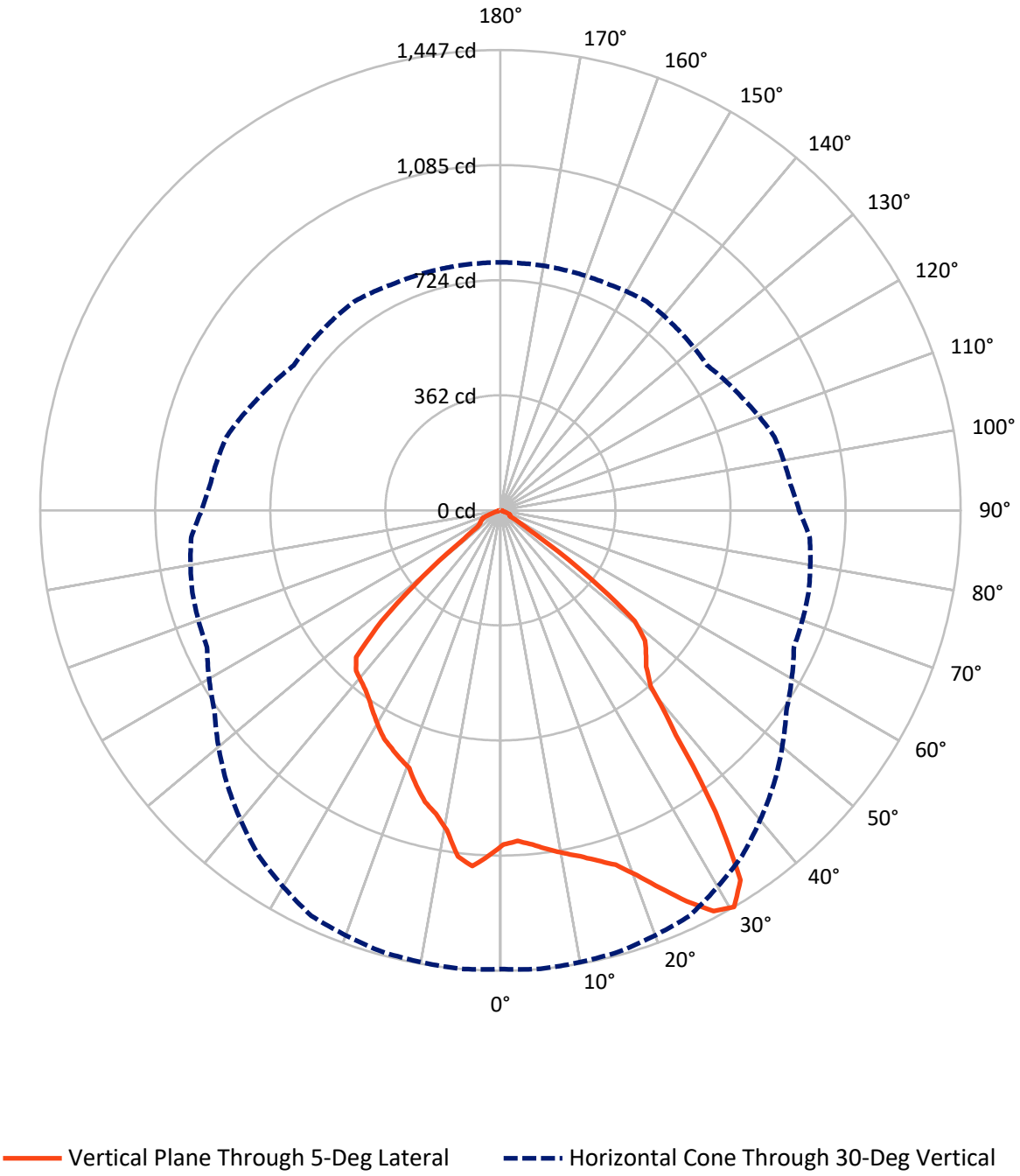
Luminous Intensity Polar Plot



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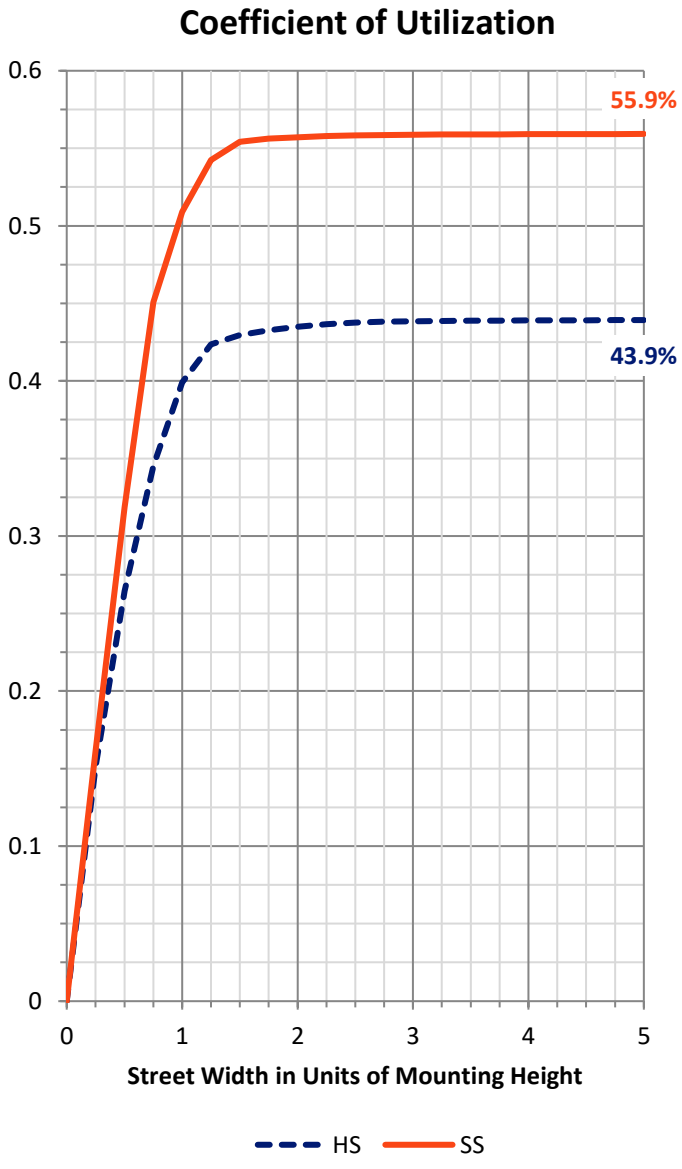
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.7	0.0	1138.7
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	1435.8	0.0	1435.8
	% Fixture	55.8	0.0	55.8
Total	Lumens	2574.5	0.0	2574.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	4.0
10°-20°	297.8	11.6
20°-30°	474.5	18.4
30°-40°	593.3	23.0
40°-50°	582.2	22.6
50°-60°	416.2	16.2
60°-70°	92.1	3.6
70°-80°	14.1	0.5
80°-90°	1.5	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°	2574.5	100.0
0°-180°	2574.5	100.0



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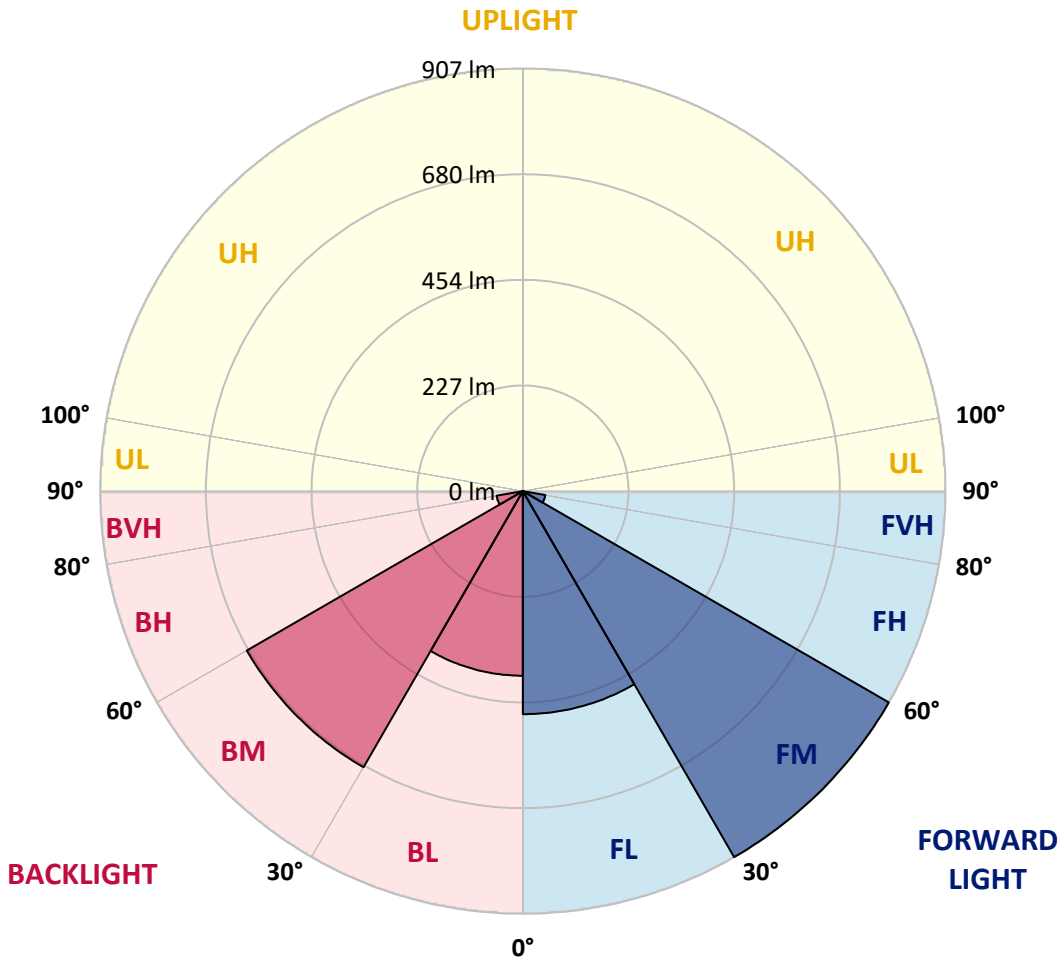
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	478.8	18.6			
FM	(30°-60°)	907.3	35.2			
FH	(60°-80°)	49.0	1.9			G0/660
FVH	(80°-90°)	0.8	0.0			G0/10
BL	(0°-30°)	396.3	15.4	B1/500		
BM	(30°-60°)	684.4	26.6	B1/1000		
BH	(60°-80°)	57.3	2.2	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type I Short



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REPORT NUMBER: P980931
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1050.8	*1050.8*	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8
2.5°	1039.1	*1040.8*	1042.4	1045.0	1048.3	1050.0	1048.3	1046.6	1045.8	1047.5	1048.3
5°	1053.4	*1055.9*	1056.7	1058.4	1060.1	1058.4	1057.6	1055.9	1055.0	1055.9	1058.4
7.5°	1074.4	*1076.0*	1075.2	1074.4	1073.5	1067.6	1061.8	1059.2	1059.2	1061.8	1068.5
10°	1092.8	*1096.2*	1092.0	1088.6	1082.8	1073.5	1063.4	1057.6	1059.2	1064.3	1072.7
12.5°	1116.4	*1116.4*	1112.2	1108.8	1095.4	1084.4	1071.0	1061.8	1061.8	1071.0	1080.2
15°	1144.9	*1142.4*	1140.7	1131.5	1115.5	1097.9	1081.1	1067.6	1065.1	1079.4	1085.3
17.5°	1181.0	*1171.8*	1167.6	1151.6	1129.8	1107.1	1084.4	1073.5	1066.0	1081.1	1074.4
20°	1230.6	*1223.9*	1210.4	1185.2	1140.7	1111.3	1084.4	1070.2	1064.3	1072.7	1066.0
22.5°	1294.4	*1290.2*	1260.0	1228.1	1169.3	1114.7	1080.2	1060.9	1059.2	1055.0	1040.8
25°	1372.6	*1361.6*	1330.6	1285.2	1212.1	1147.4	1079.4	1044.1	1038.2	1027.3	1002.1
27.5°	1438.9	*1427.2*	1389.4	1349.0	1270.9	1196.2	1086.1	1024.0	1017.2	1009.7	978.6
30°	*1442.3*	*1447.3*	*1437.2*	*1407.0*	*1325.5*	*1216.3*	*1097.9*	*1018.1*	*1003.0*	*976.1*	*939.1*
32.5°	1374.2	*1386.0*	1410.4	1421.3	1366.7	1240.7	1108.0	1020.6	992.9	928.2	898.0
35°	1141.6	*1165.1*	1265.0	1359.1	1378.4	1276.0	1116.4	1020.6	989.5	893.8	870.2
37.5°	877.0	*896.3*	981.1	1151.6	1326.4	1297.8	1134.8	1014.7	985.3	896.3	864.4
40°	716.5	*727.4*	764.4	880.3	1143.2	1261.7	1153.3	1021.4	972.7	898.0	867.7
42.5°	672.8	*672.0*	664.4	707.3	871.9	1155.8	1165.9	1038.2	951.7	887.0	861.8
45°	643.4	*641.8*	635.0	643.4	689.6	945.8	1156.7	1068.5	925.7	848.4	831.6
47.5°	611.5	*612.4*	609.8	613.2	604.8	718.2	1104.6	1081.1	881.2	783.7	777.8
50°	535.1	*547.7*	581.3	584.6	562.8	579.6	945.8	1075.2	849.2	765.2	760.2
52.5°	332.6	*352.8*	451.9	535.9	523.3	523.3	721.6	1083.6	792.1	758.5	761.9
55°	117.6	*132.7*	241.9	368.8	468.7	478.0	570.4	964.3	785.4	770.3	773.6
57.5°	29.4	*36.1*	73.9	159.6	315.8	433.4	509.9	796.3	596.4	575.4	583.8
60°	34.4	*33.6*	46.2	51.2	122.6	342.7	459.5	537.6	384.7	360.4	364.6
62.5°	37.0	*34.4*	36.1	45.4	20.2	168.0	366.2	320.0	158.8	117.6	124.3
65°	32.8	*31.1*	28.6	42.0	14.3	31.1	215.9	94.1	22.7	36.1	32.8
67.5°	21.8	*22.7*	23.5	33.6	13.4	13.4	28.6	23.5	16.0	32.8	28.6
70°	12.6	*13.4*	16.0	20.2	13.4	10.9	12.6	19.3	13.4	32.8	28.6
72.5°	7.6	*7.6*	7.6	8.4	13.4	9.2	8.4	16.0	11.8	30.2	28.6
75°	5.9	*5.9*	5.9	5.0	11.8	5.9	5.9	12.6	10.1	21.8	21.8
77.5°	5.0	*5.0*	5.0	4.2	6.7	5.0	5.0	9.2	9.2	10.9	12.6
80°	3.4	*3.4*	3.4	3.4	4.2	4.2	3.4	5.0	4.2	5.0	5.9
82.5°	1.7	*2.5*	2.5	1.7	2.5	2.5	2.5	3.4	2.5	3.4	3.4
85°	0.8	*0.8*	0.8	0.8	0.8	0.8	0.8	1.7	0.8	0.8	1.7
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: P980931
CATALOG NUMBER: NFFLD-S-C70-7022-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8
2.5°	1050.0	1054.2	1060.1	1069.3	1072.7	1078.6	1083.6	1087.8	1087.8	1086.1
5°	1063.4	1075.2	1091.2	1105.4	1110.5	1116.4	1118.9	1123.1	1122.2	1121.4
7.5°	1075.2	1093.7	1110.5	1120.6	1118.9	1111.3	1106.3	1099.6	1097.0	1098.7
10°	1084.4	1101.2	1108.8	1102.1	1081.9	1064.3	1041.6	1026.5	1018.9	1021.4
12.5°	1087.8	1093.7	1087.0	1050.0	1024.8	1008.0	989.5	979.4	975.2	976.1
15°	1088.6	1075.2	1038.2	1010.5	992.0	971.0	955.9	946.7	946.7	947.5
17.5°	1071.0	1038.2	1006.3	985.3	959.3	937.4	929.0	925.7	904.7	908.0
20°	1055.0	1008.0	990.4	957.6	926.5	912.2	863.5	858.5	859.3	860.2
22.5°	1021.4	986.2	970.2	927.4	892.1	852.6	845.9	840.8	841.7	841.7
25°	975.2	955.1	933.2	888.7	845.9	838.3	833.3	826.6	823.2	824.0
27.5°	949.2	924.0	883.7	845.9	818.2	821.5	815.6	805.6	805.6	806.4
30°	*916.4*	*892.1*	*838.3*	*793.8*	*796.3*	*801.4*	*787.1*	*782.0*	*779.5*	*779.5*
32.5°	876.1	842.5	795.5	753.5	768.6	766.9	749.3	751.0	752.6	751.0
35°	845.9	802.2	762.7	740.0	734.2	727.4	718.2	724.1	726.6	724.9
37.5°	838.3	786.2	745.1	729.1	706.4	693.8	696.4	702.2	705.6	704.8
40°	835.8	770.3	730.0	713.2	682.9	672.0	675.4	687.1	691.3	690.5
42.5°	832.4	759.4	720.7	700.6	658.6	651.0	667.0	677.9	678.7	677.9
45°	814.8	747.6	714.8	674.5	621.6	630.8	651.0	656.9	646.8	642.6
47.5°	773.6	725.8	697.2	642.6	591.4	609.0	611.5	547.7	510.7	502.3
50°	761.9	726.6	677.0	604.8	572.9	590.5	480.5	367.1	320.9	311.6
52.5°	758.5	718.2	684.6	565.3	566.2	498.1	303.2	179.8	144.5	137.8
55°	766.9	755.2	697.2	541.8	526.7	324.2	141.1	84.8	87.4	84.8
57.5°	578.8	631.7	712.3	504.8	384.7	156.2	89.0	82.3	76.4	74.8
60°	361.2	411.6	521.6	434.3	197.4	93.2	90.7	76.4	73.9	73.1
62.5°	119.3	183.1	299.0	285.6	54.6	92.4	91.6	68.0	68.0	68.0
65°	30.2	31.1	82.3	98.3	40.3	82.3	87.4	63.8	62.2	64.7
67.5°	26.0	23.5	43.7	38.6	33.6	57.1	76.4	61.3	58.0	58.0
70°	26.0	27.7	42.8	36.1	21.0	31.1	55.4	37.8	33.6	31.1
72.5°	24.4	26.9	37.8	32.8	14.3	15.1	24.4	12.6	11.8	10.1
75°	21.0	21.8	29.4	29.4	15.1	7.6	10.1	8.4	8.4	7.6
77.5°	14.3	10.9	16.8	21.0	10.9	5.0	4.2	4.2	4.2	3.4
80°	7.6	4.2	4.2	3.4	4.2	4.2	2.5	3.4	3.4	2.5
82.5°	4.2	2.5	2.5	1.7	1.7	2.5	1.7	1.7	1.7	1.7
85°	1.7	1.7	0.8	0.8	0.8	1.7	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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

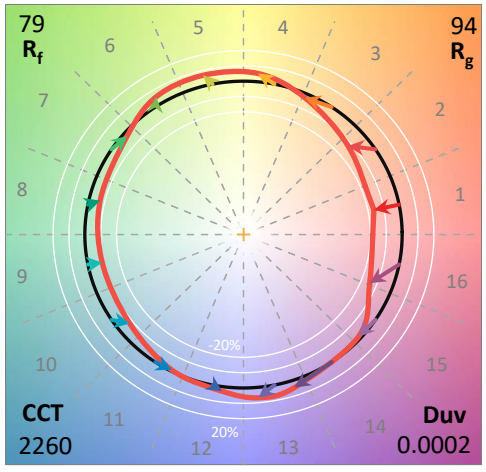
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

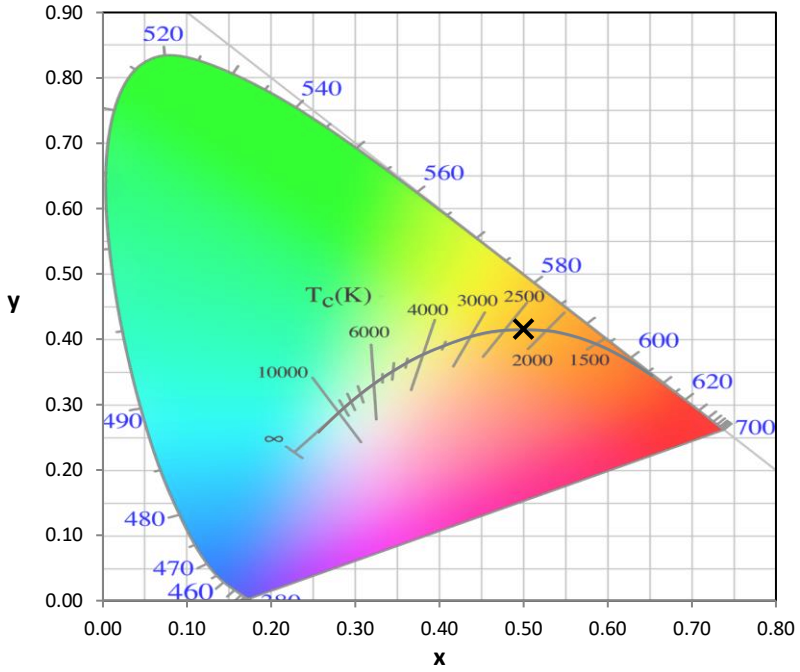
Stabilization Time:	59M
Operation Time:	1H 59M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-319-8

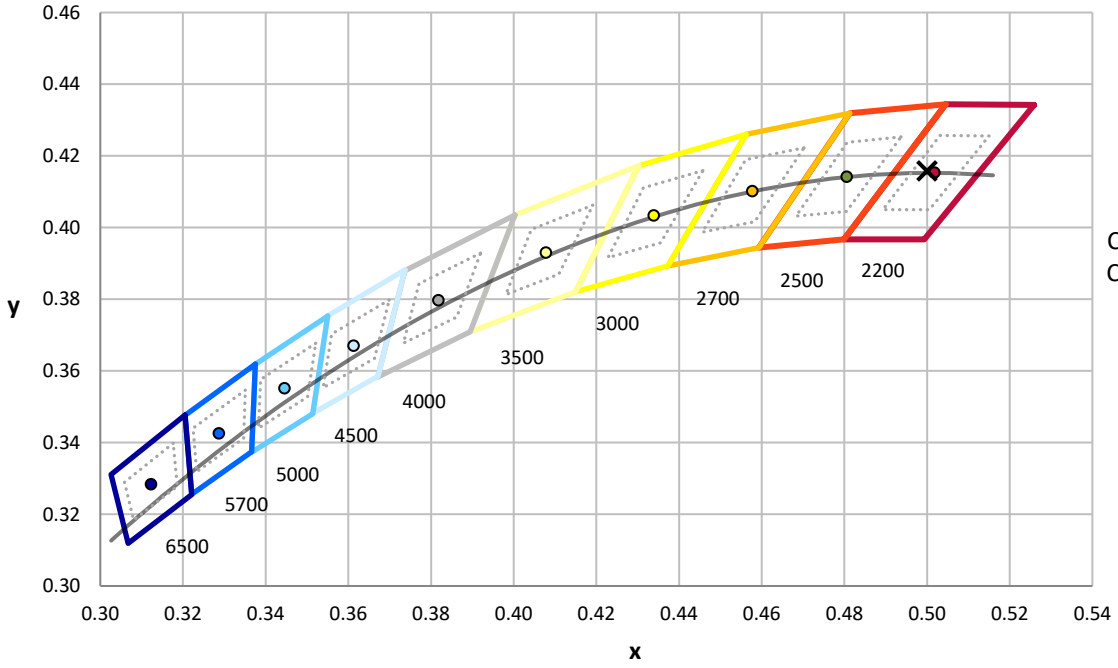
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/212025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

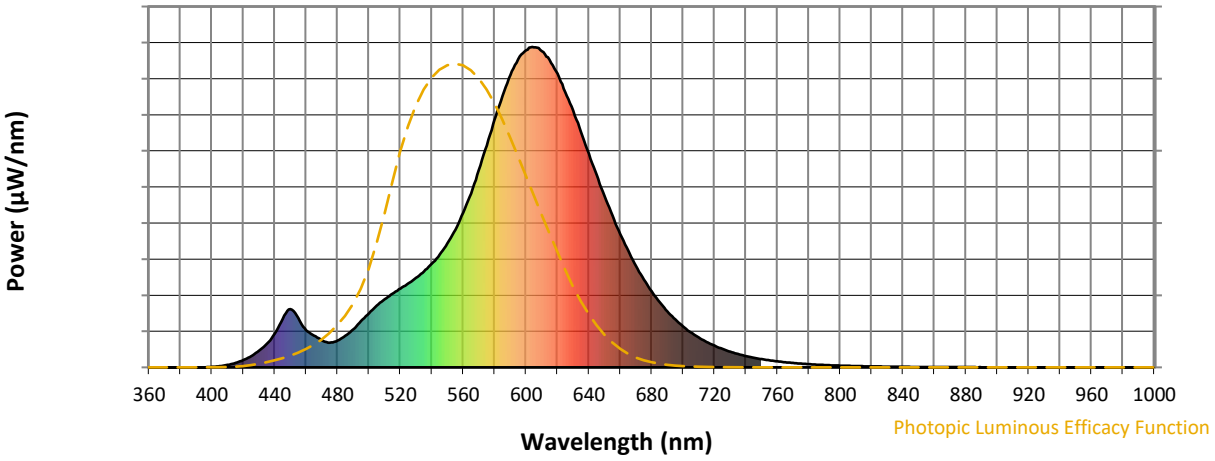


CCT = 2260K
CIE x = 0.5000
CIE y = 0.4158
Duv = 0.0002

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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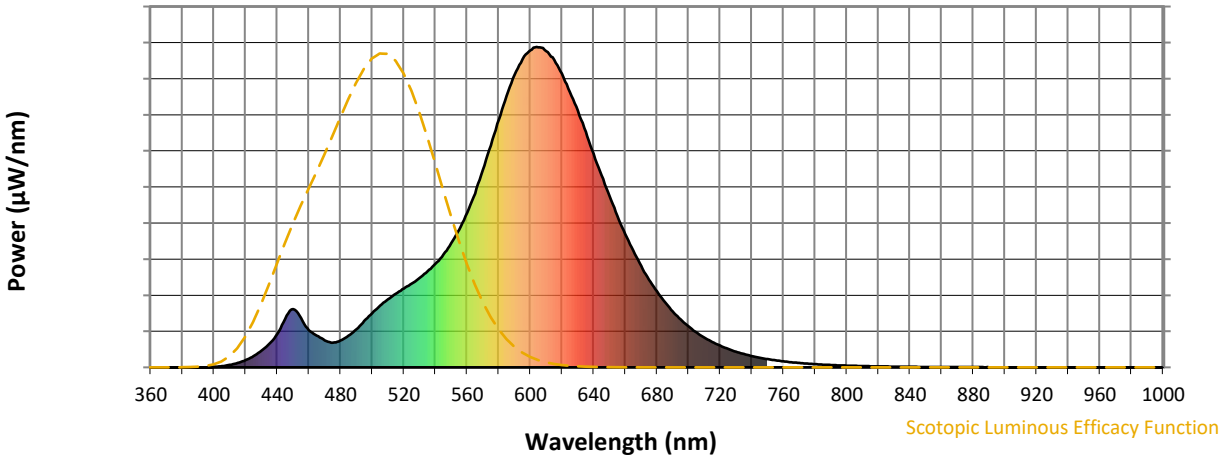
Scotopic Flux vs. Wavelength



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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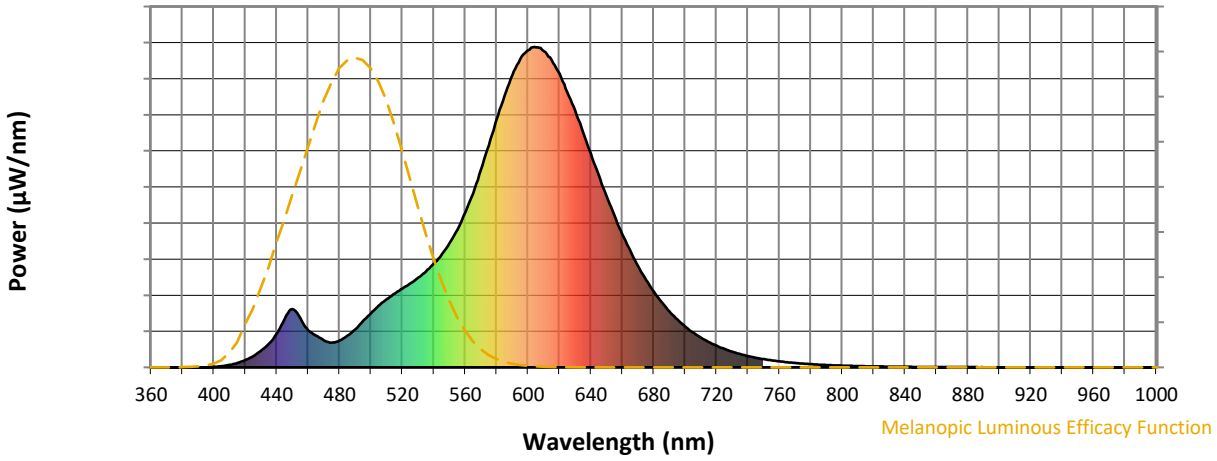
Melanopic Flux vs. Wavelength



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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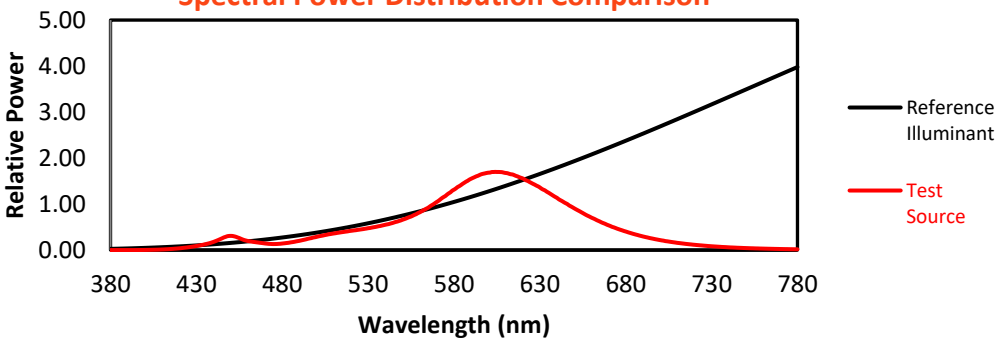
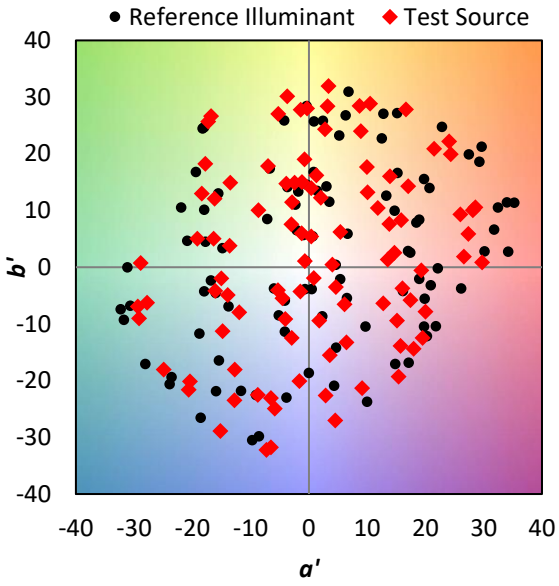
Summary

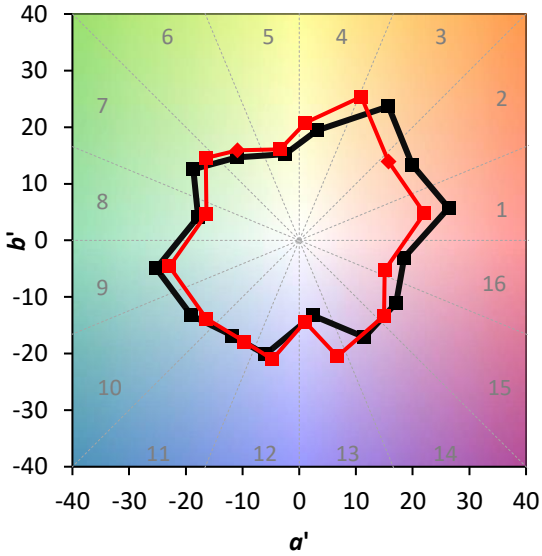
R_f = 78.7
R_g = 93.7
CIE R_a = 72.8
R_9 = -28.5

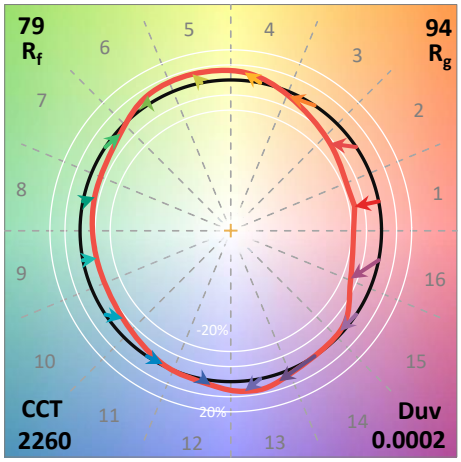
Spectral Power Distribution Comparison

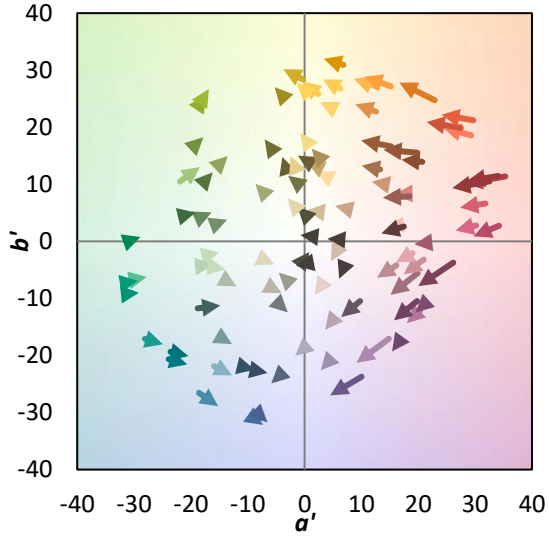


Color Vector Graphics









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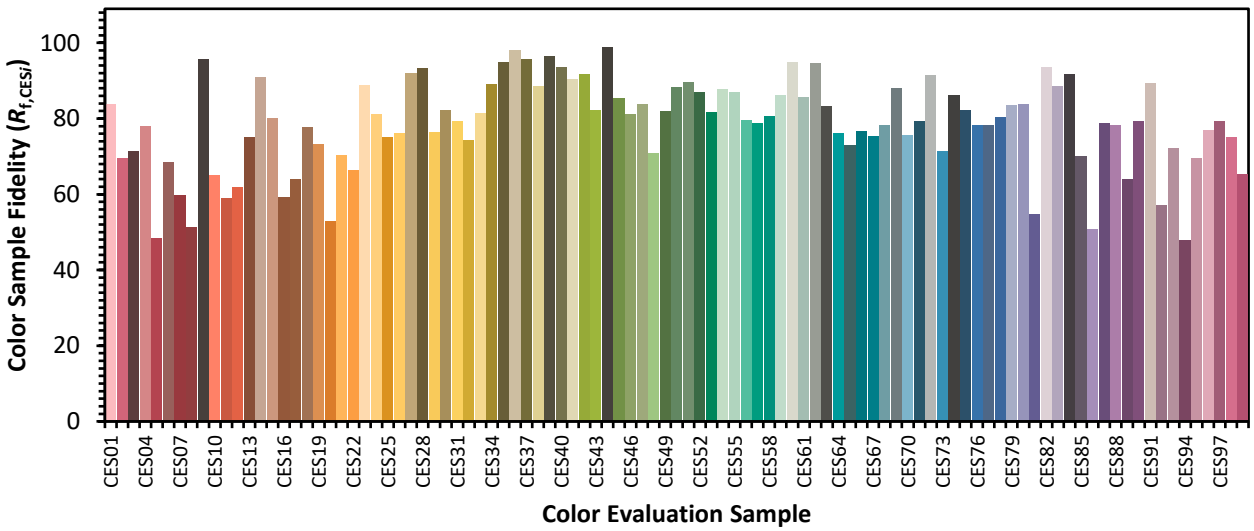
Individual Sample Fidelity Index ($R_{f,i}$)

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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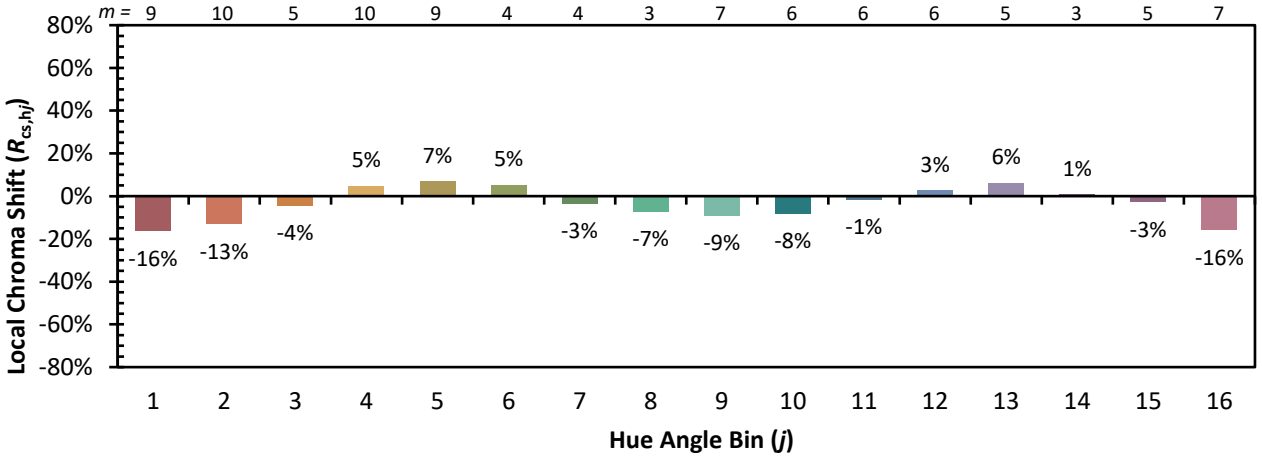
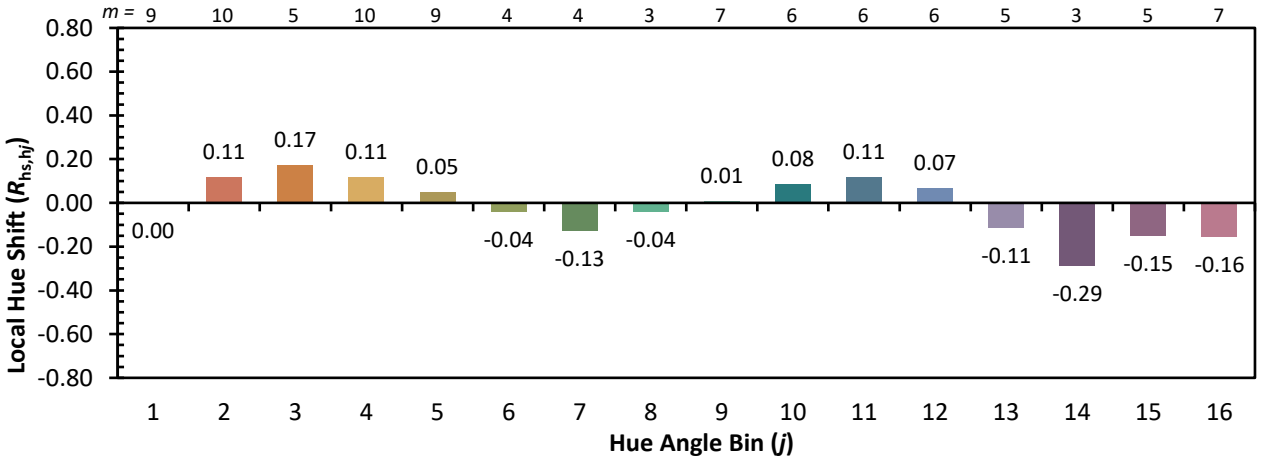
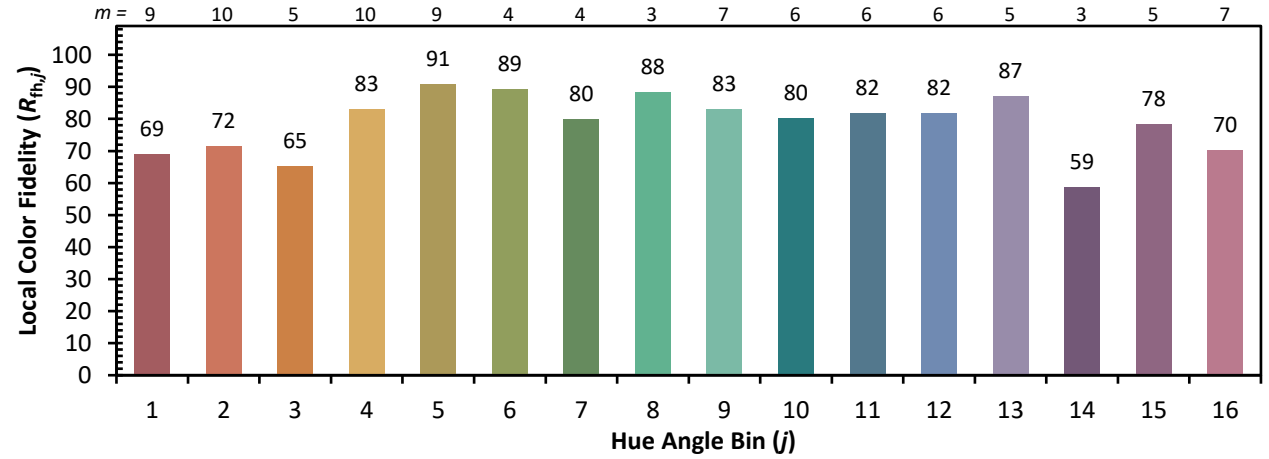
Color Rendition by Hue-Angle Bin







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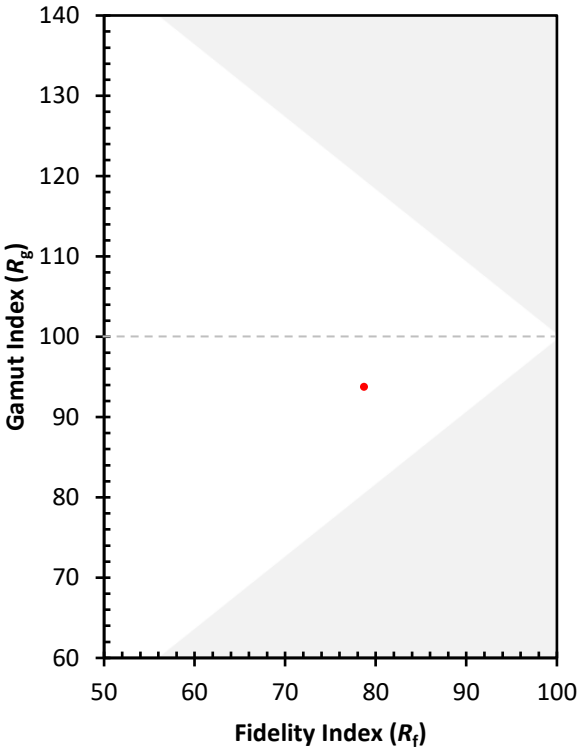
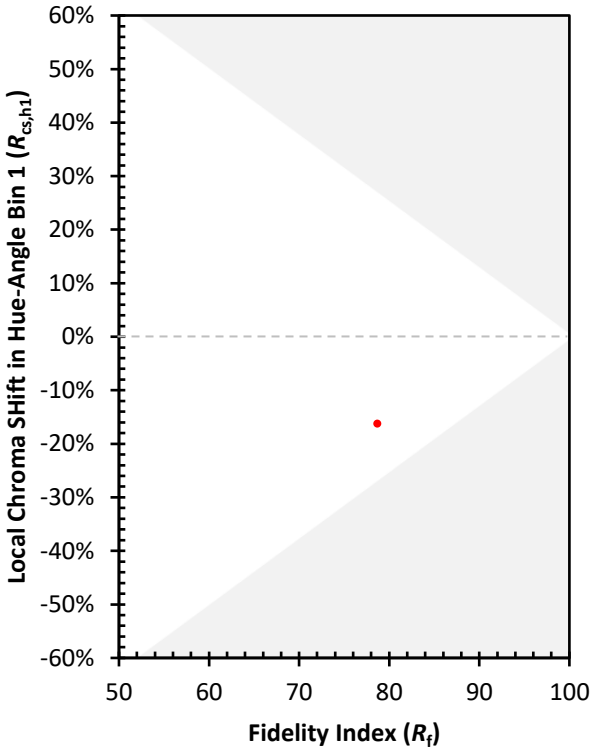
Measure Comparisons





(END OF REPORT)