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: P980953

Luminaire Tested: **NFFLD-S-C70-7030-66**

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:	P980953
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	04/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NFFLD-S-C70-7030-66
Description:	LUMARK NIGHT FALCON SMALL SIZE 20W 70CRI 3000K LED FIXTURE NEMA 6
Light Source:	(1) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2911.6 lumens
Efficiency:	N/A
Efficacy:	151.6 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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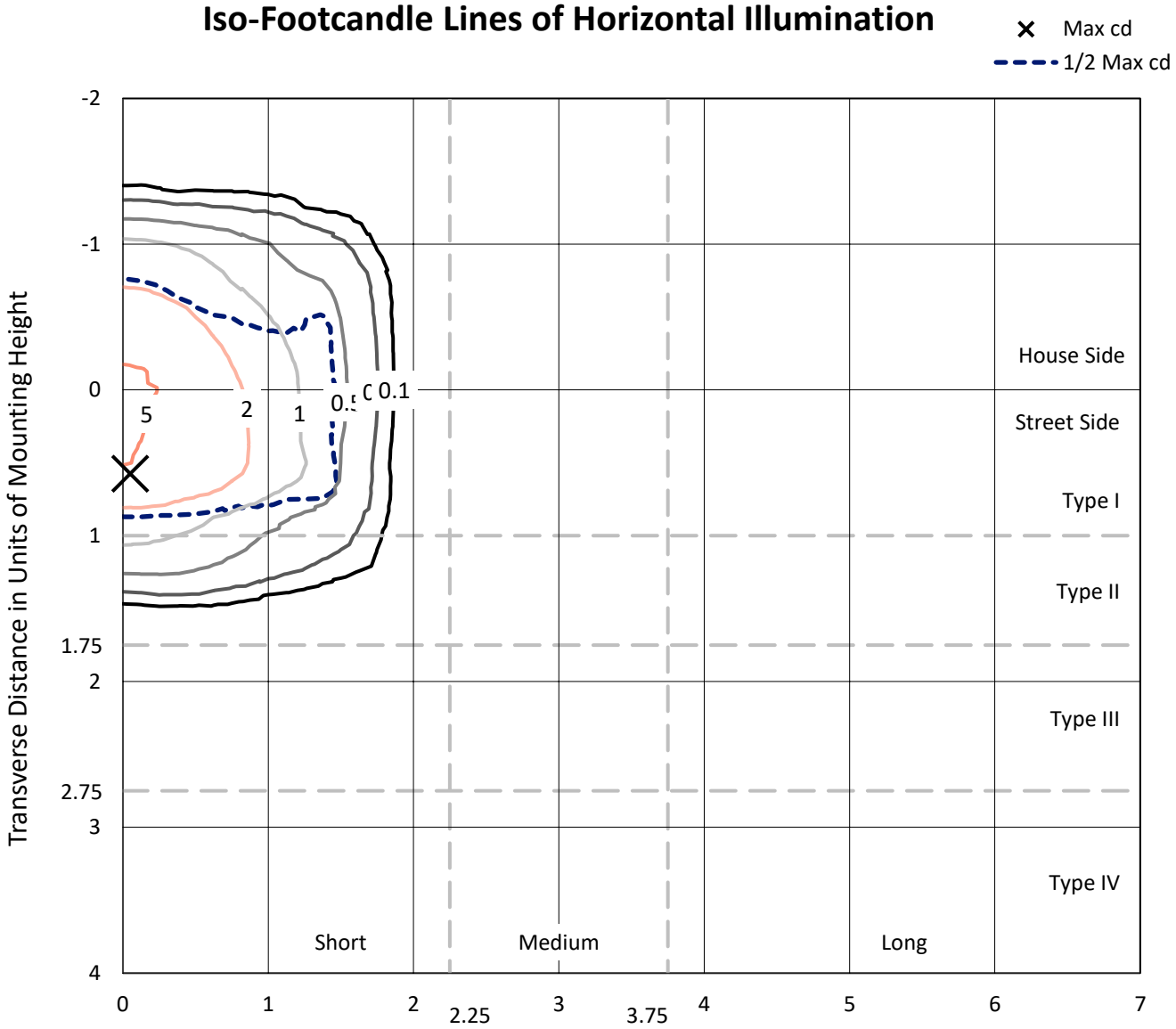
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
Type I - Short - N/A

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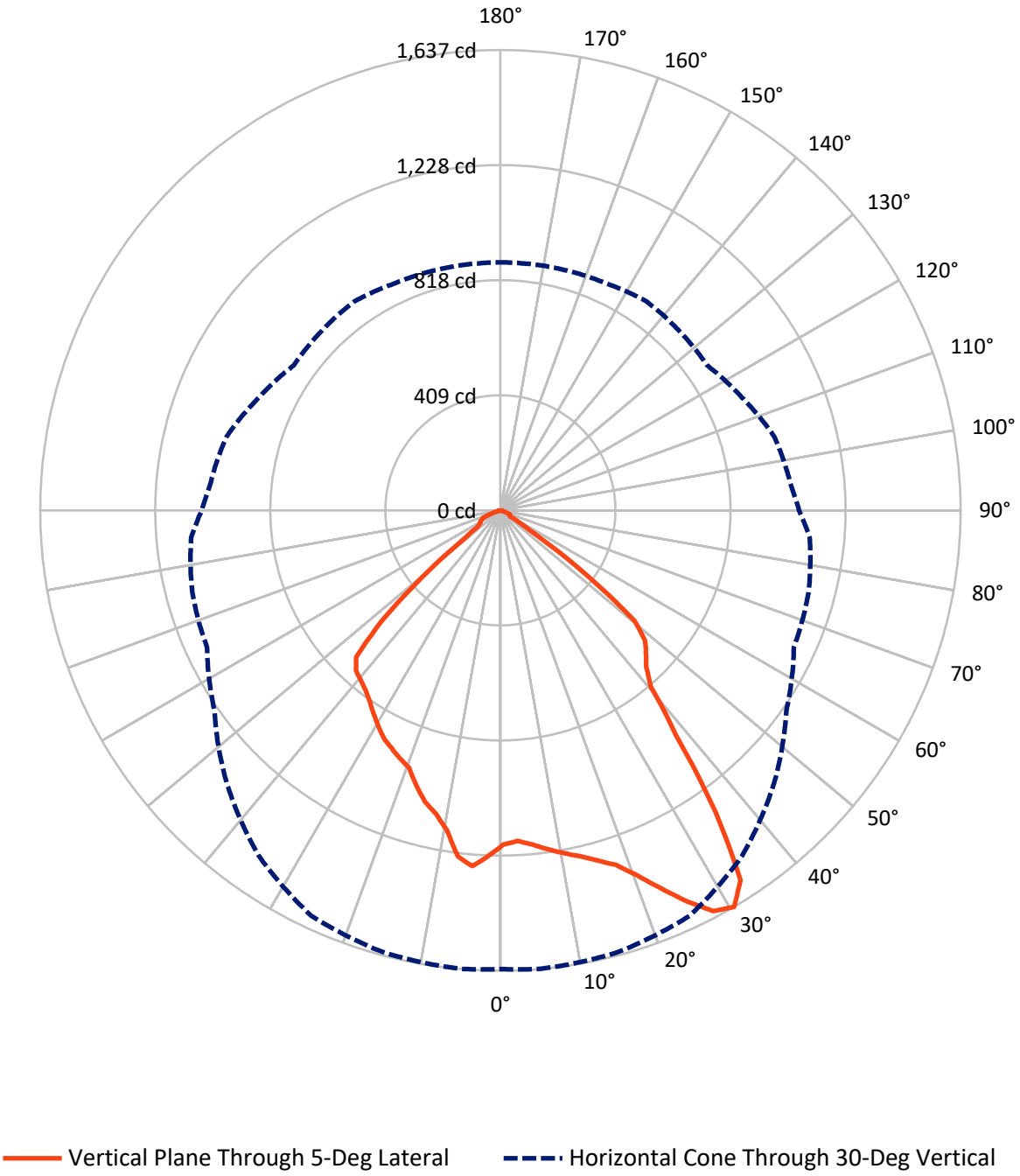
Luminous Intensity Polar Plot



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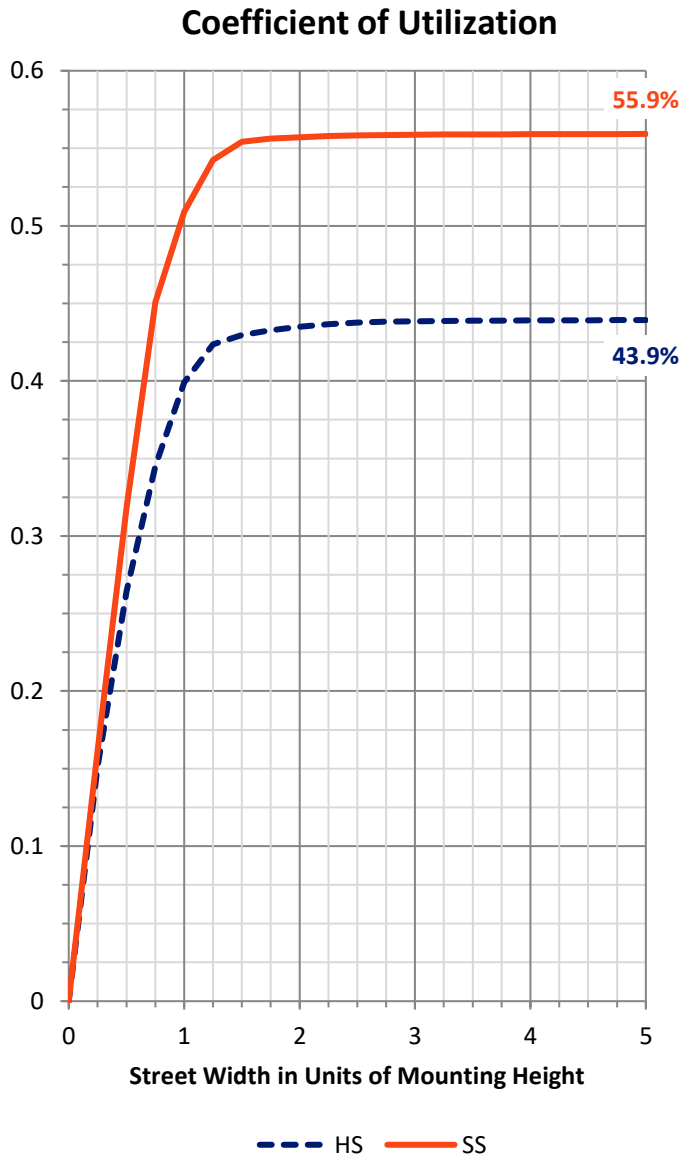
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1287.8	0.0	1287.8
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	1623.8	0.0	1623.8
	% Fixture	55.8	0.0	55.8
Total	Lumens	2911.6	0.0	2911.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	4.0
10°-20°	336.8	11.6
20°-30°	536.7	18.4
30°-40°	670.9	23.0
40°-50°	658.4	22.6
50°-60°	470.7	16.2
60°-70°	104.1	3.6
70°-80°	16.0	0.5
80°-90°	1.7	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°	2911.6	100.0
0°-180°	2911.6	100.0



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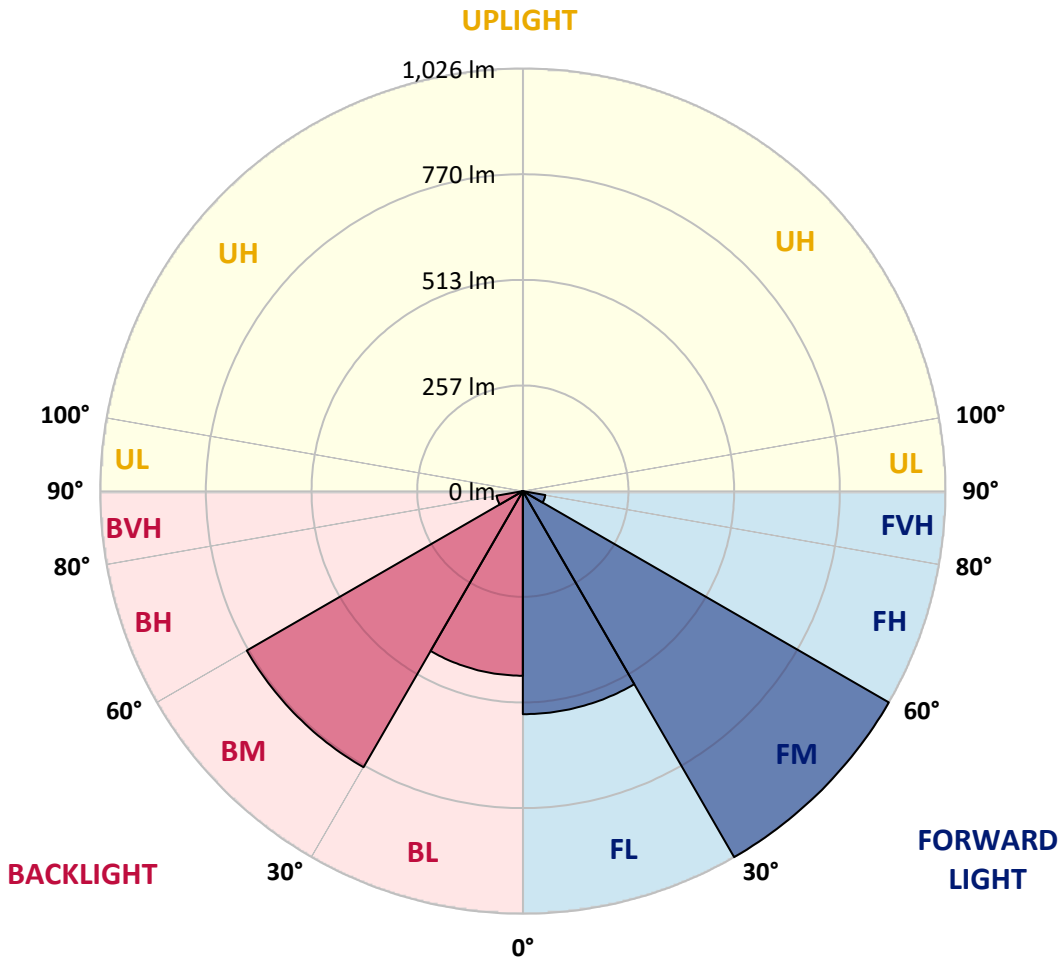
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	541.5	18.6			
FM	(30°-60°)	1026.1	35.2			
FH	(60°-80°)	55.4	1.9			G0/660
FVH	(80°-90°)	0.8	0.0			G0/10
BL	(0°-30°)	448.2	15.4	B1/500		
BM	(30°-60°)	774.0	26.6	B1/1000		
BH	(60°-80°)	64.7	2.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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: P980953
CATALOG NUMBER: NFFLD-S-C70-7030-66

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1175.1	1177.0	1179.0	1181.8	1185.6	1187.5	1185.6	1183.7	1182.8	1184.6	1185.6
5°	1191.3	1194.1	1195.1	1197.0	1198.9	1197.0	1196.0	1194.1	1193.2	1194.1	1197.0
7.5°	1215.0	1217.0	1216.0	1215.0	1214.1	1207.5	1200.8	1198.0	1198.0	1200.8	1208.4
10°	1236.0	1239.8	1235.0	1231.2	1224.5	1214.1	1202.7	1196.0	1198.0	1203.6	1213.1
12.5°	1262.5	1262.5	1257.8	1254.0	1238.8	1226.5	1211.2	1200.8	1200.8	1211.2	1221.7
15°	1294.8	1292.0	1290.1	1279.6	1261.6	1241.6	1222.6	1207.5	1204.6	1220.8	1227.4
17.5°	1335.7	1325.2	1320.5	1302.5	1277.8	1252.1	1226.5	1214.1	1205.5	1222.6	1215.0
20°	1391.8	1384.1	1369.0	1340.5	1290.1	1256.8	1226.5	1210.3	1203.6	1213.1	1205.5
22.5°	1463.9	1459.2	1425.0	1388.9	1322.4	1260.6	1221.7	1199.8	1198.0	1193.2	1177.0
25°	1552.3	1539.9	1504.8	1453.5	1370.8	1297.7	1220.8	1180.8	1174.2	1161.8	1133.3
27.5°	1627.3	1614.0	1571.3	1525.7	1437.3	1352.8	1228.3	1158.0	1150.5	1141.9	1106.8
30°	1631.1	1636.8	1625.4	1591.2	1499.1	1375.6	1241.6	1151.4	1134.3	1103.9	1062.1
32.5°	1554.2	1567.5	1595.0	1607.4	1545.6	1403.1	1253.0	1154.2	1122.9	1049.8	1015.5
35°	1291.0	1317.6	1430.7	1537.1	1558.9	1443.0	1262.5	1154.2	1119.1	1010.8	984.2
37.5°	991.8	1013.6	1109.6	1302.5	1500.0	1467.8	1283.5	1147.6	1114.3	1013.6	977.5
40°	810.3	822.7	864.5	995.6	1293.0	1426.9	1304.3	1155.2	1100.1	1015.5	981.3
42.5°	760.9	760.0	751.4	799.9	986.1	1307.2	1318.6	1174.2	1076.3	1003.2	974.7
45°	727.7	725.8	718.2	727.7	779.9	1069.7	1308.1	1208.4	1046.9	959.5	940.5
47.5°	691.6	692.5	689.7	693.5	684.0	812.2	1249.2	1222.6	996.5	886.3	879.7
50°	605.1	619.4	657.4	661.2	636.5	655.5	1069.7	1216.0	960.4	865.4	859.8
52.5°	376.2	399.0	511.1	606.1	591.9	591.9	816.0	1225.5	895.8	857.8	861.6
55°	133.0	150.1	273.6	417.0	530.1	540.5	645.0	1090.6	888.2	871.1	874.9
57.5°	33.2	40.9	83.6	180.5	357.2	490.2	576.6	900.6	674.5	650.8	660.2
60°	38.9	38.0	52.2	57.9	138.7	387.6	519.6	608.0	435.1	407.5	412.3
62.5°	41.8	38.9	40.9	51.3	22.8	190.0	414.2	361.9	179.5	133.0	140.6
65°	37.0	35.1	32.3	47.5	16.1	35.1	244.1	106.4	25.6	40.9	37.0
67.5°	24.7	25.6	26.6	38.0	15.2	15.2	32.3	26.6	18.1	37.0	32.3
70°	14.2	15.2	18.1	22.8	15.2	12.3	14.2	21.8	15.2	37.0	32.3
72.5°	8.5	8.5	8.5	9.5	15.2	10.4	9.5	18.1	13.3	34.2	32.3
75°	6.6	6.6	6.6	5.7	13.3	6.6	6.6	14.2	11.4	24.7	24.7
77.5°	5.7	5.7	5.7	4.8	7.6	5.7	5.7	10.4	10.4	12.3	14.2
80°	3.8	3.8	3.8	3.8	4.8	4.8	3.8	5.7	4.8	5.7	6.6
82.5°	1.9	2.8	2.8	1.9	2.8	2.8	2.8	3.8	2.8	3.8	3.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	0.9	0.9	1.9
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: P980953
CATALOG NUMBER: NFFLD-S-C70-7030-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5	1188.5
2.5°	1187.5	1192.2	1198.9	1209.3	1213.1	1219.8	1225.5	1230.2	1230.2	1228.3
5°	1202.7	1216.0	1234.0	1250.2	1255.9	1262.5	1265.4	1270.1	1269.2	1268.2
7.5°	1216.0	1236.9	1255.9	1267.3	1265.4	1256.8	1251.1	1243.5	1240.7	1242.6
10°	1226.5	1245.5	1254.0	1246.4	1223.6	1203.6	1178.0	1160.9	1152.3	1155.2
12.5°	1230.2	1236.9	1229.3	1187.5	1159.0	1140.0	1119.1	1107.7	1103.0	1103.9
15°	1231.2	1216.0	1174.2	1142.8	1122.0	1098.2	1081.1	1070.6	1070.6	1071.6
17.5°	1211.2	1174.2	1138.1	1114.3	1084.9	1060.2	1050.7	1046.9	1023.1	1027.0
20°	1193.2	1140.0	1120.0	1083.0	1047.8	1031.7	976.6	970.9	971.8	972.8
22.5°	1155.2	1115.3	1097.2	1048.8	1008.9	964.2	956.6	950.9	951.9	951.9
25°	1103.0	1080.1	1055.5	1005.1	956.6	948.1	942.4	934.8	931.0	931.9
27.5°	1073.5	1045.0	999.4	956.6	925.3	929.1	922.4	911.0	911.0	912.0
30°	*1036.5*	*1008.9*	*948.1*	*897.8*	*900.6*	*906.3*	*890.1*	*884.4*	*881.6*	*881.6*
32.5°	990.8	952.8	899.6	852.1	869.2	867.3	847.4	849.3	851.2	849.3
35°	956.6	907.2	862.6	836.9	830.3	822.7	812.2	818.9	821.8	819.8
37.5°	948.1	889.2	842.6	824.6	798.9	784.7	787.5	794.2	798.0	797.0
40°	945.2	871.1	825.5	806.5	772.3	760.0	763.8	777.1	781.8	780.9
42.5°	941.4	858.8	815.1	792.3	744.8	736.2	754.3	766.6	767.6	766.6
45°	921.5	845.5	808.4	762.8	703.0	713.4	736.2	742.9	731.5	726.8
47.5°	874.9	820.8	788.5	726.8	668.8	688.8	691.6	619.4	577.6	568.1
50°	861.6	821.8	765.7	684.0	647.9	667.9	543.4	415.1	362.9	352.4
52.5°	857.8	812.2	774.2	639.4	640.3	563.4	342.9	203.3	163.4	155.8
55°	867.3	854.0	788.5	612.8	595.6	366.7	159.6	95.9	98.8	95.9
57.5°	654.5	714.4	805.6	570.9	435.1	176.7	100.7	93.1	86.5	84.5
60°	408.5	465.5	589.9	491.1	223.2	105.4	102.6	86.5	83.6	82.6
62.5°	134.9	207.1	338.2	323.0	61.8	104.5	103.5	77.0	77.0	77.0
65°	34.2	35.1	93.1	111.1	45.6	93.1	98.8	72.2	70.3	73.1
67.5°	29.4	26.6	49.4	43.7	38.0	64.6	86.5	69.3	65.5	65.5
70°	29.4	31.3	48.4	40.9	23.8	35.1	62.7	42.8	38.0	35.1
72.5°	27.5	30.4	42.8	37.0	16.1	17.1	27.5	14.2	13.3	11.4
75°	23.8	24.7	33.2	33.2	17.1	8.5	11.4	9.5	9.5	8.5
77.5°	16.1	12.3	19.0	23.8	12.3	5.7	4.8	4.8	4.8	3.8
80°	8.5	4.8	4.8	3.8	4.8	4.8	2.8	3.8	3.8	2.8
82.5°	4.8	2.8	2.8	1.9	1.9	2.8	1.9	1.9	1.9	1.9
85°	1.9	1.9	0.9	0.9	0.9	1.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
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

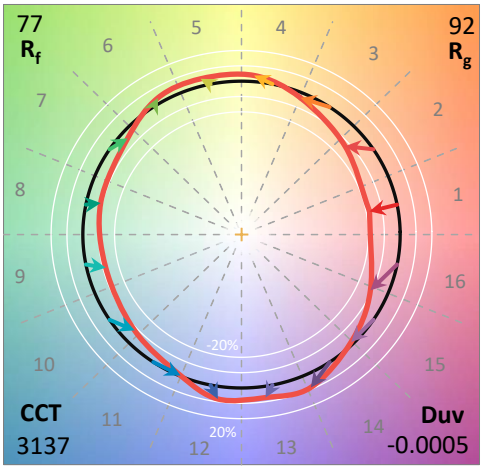
Test Information

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

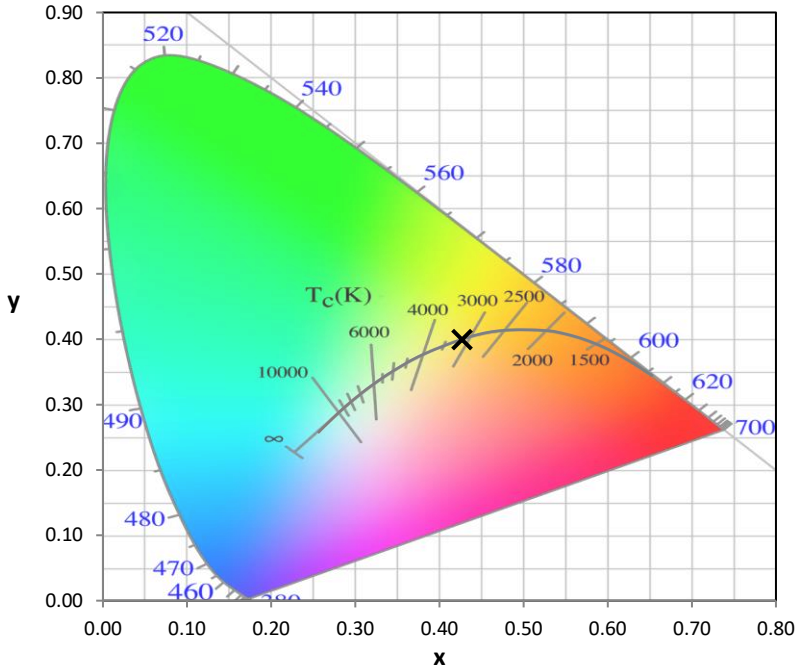
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-319-10

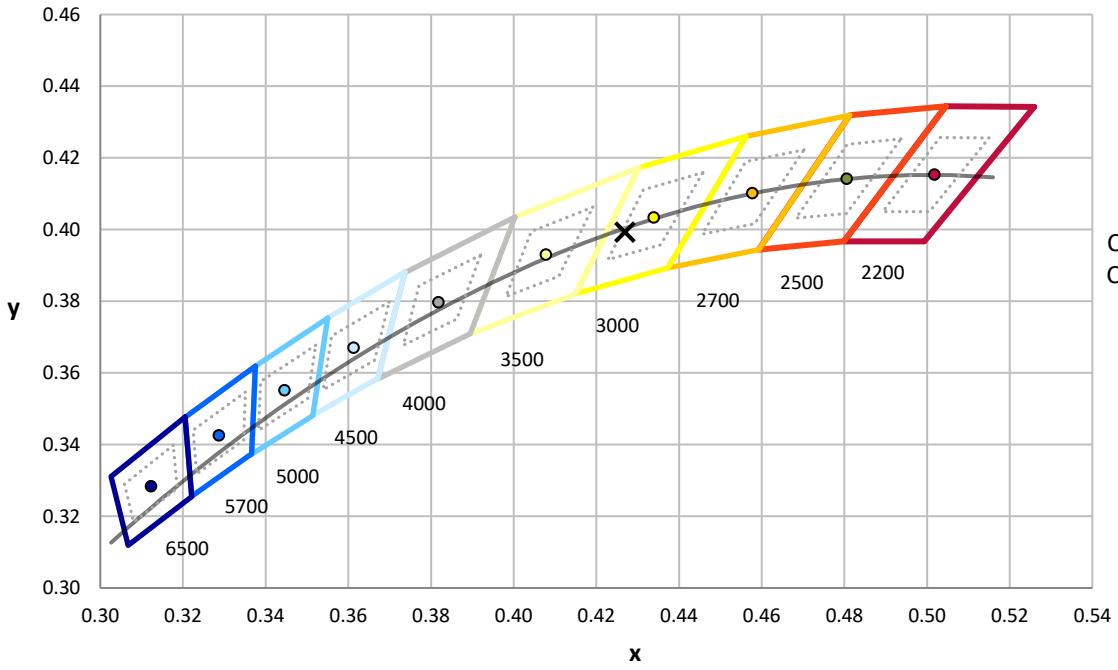
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/212025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

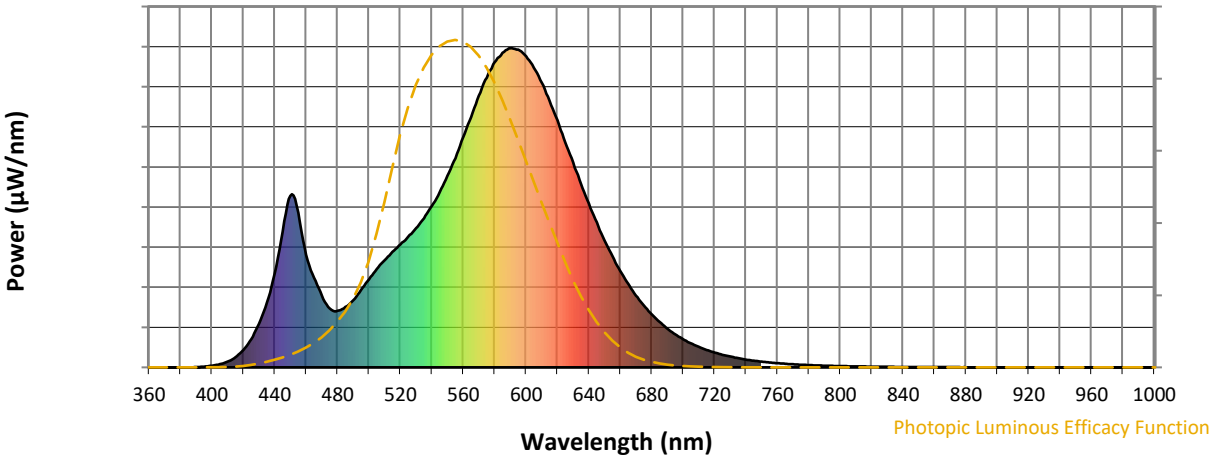


CCT = 3137K
CIE x = 0.4269
CIE y = 0.3993
Duv = -0.0005

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-10

Photopic Flux vs. Wavelength

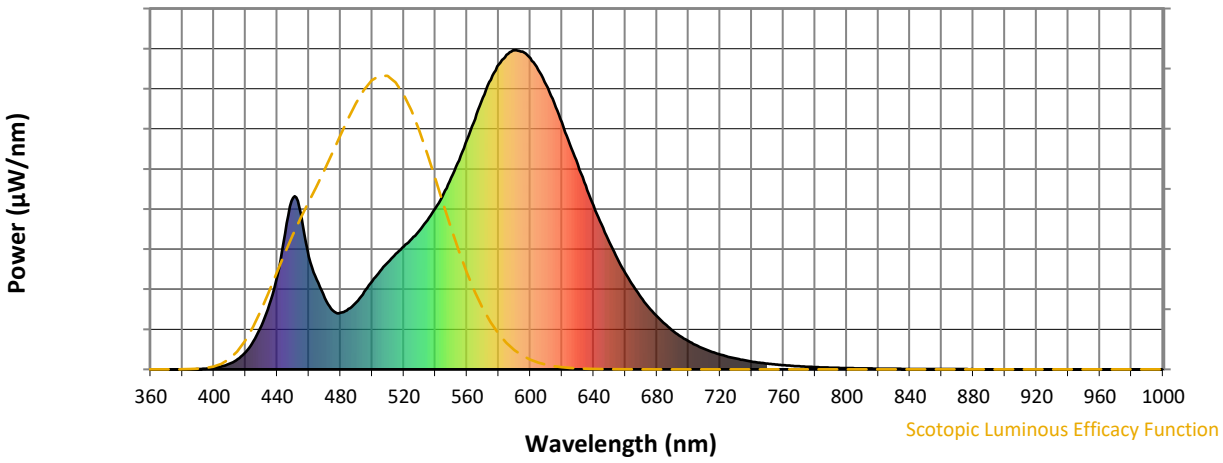


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2501-319-10

Scotopic Flux vs. Wavelength

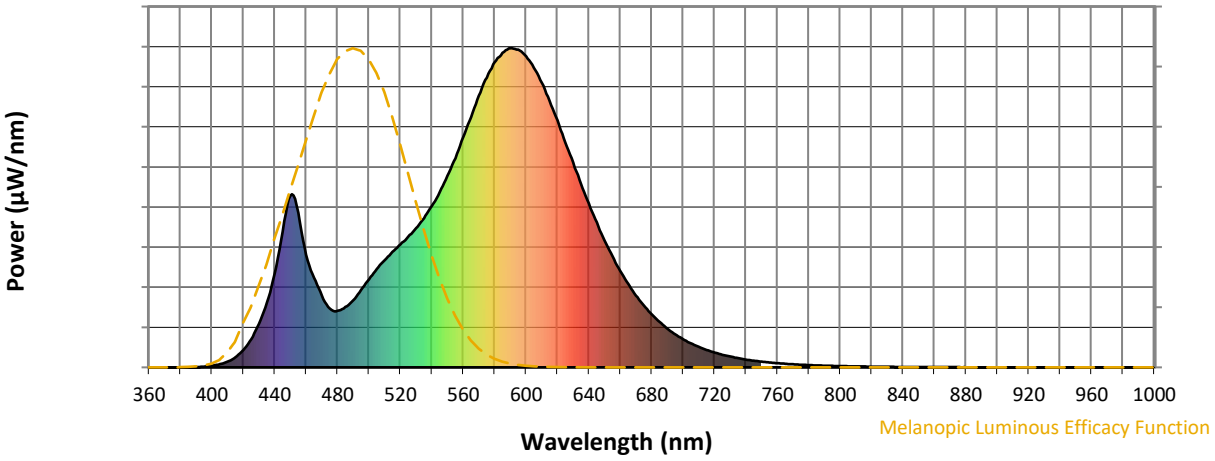


Scotopic Lumens: NR **S/P: 1.31**

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			

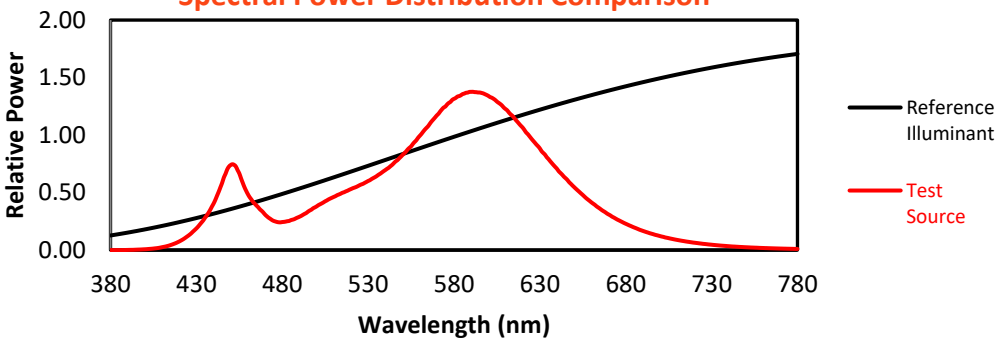
REPORT NUMBER: SP1-2501-319-10

TM-30-18

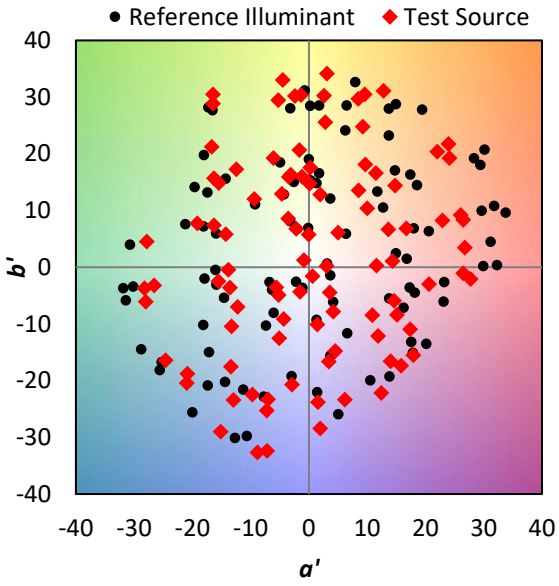
Summary

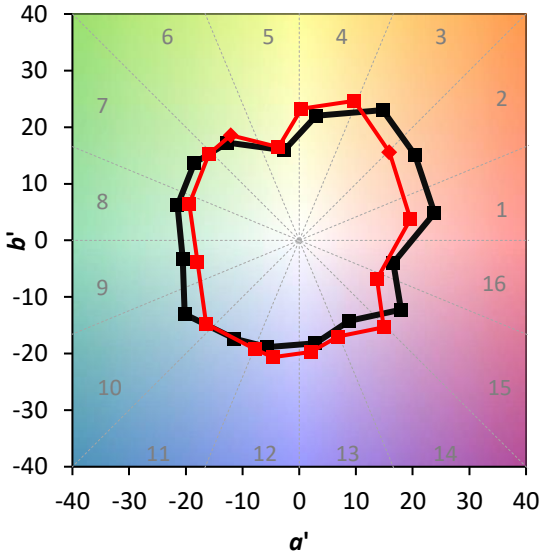
R_f = 76.5
R_g = 91.7
CIE R_a = 71.4
R_9 = -42.3

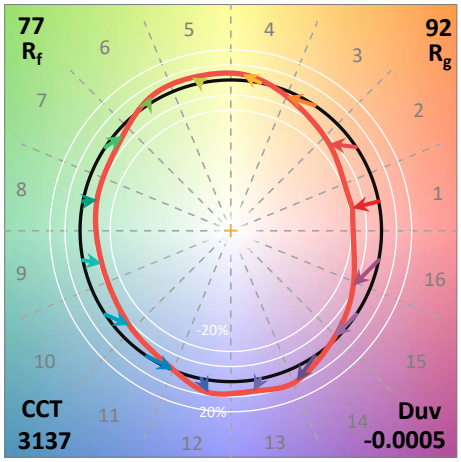
Spectral Power Distribution Comparison

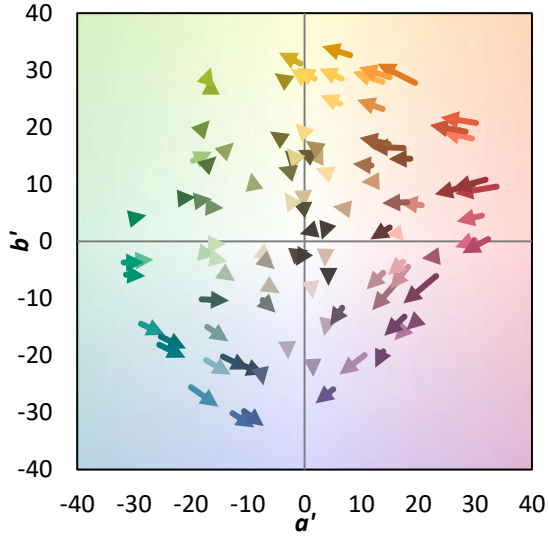


Color Vector Graphics







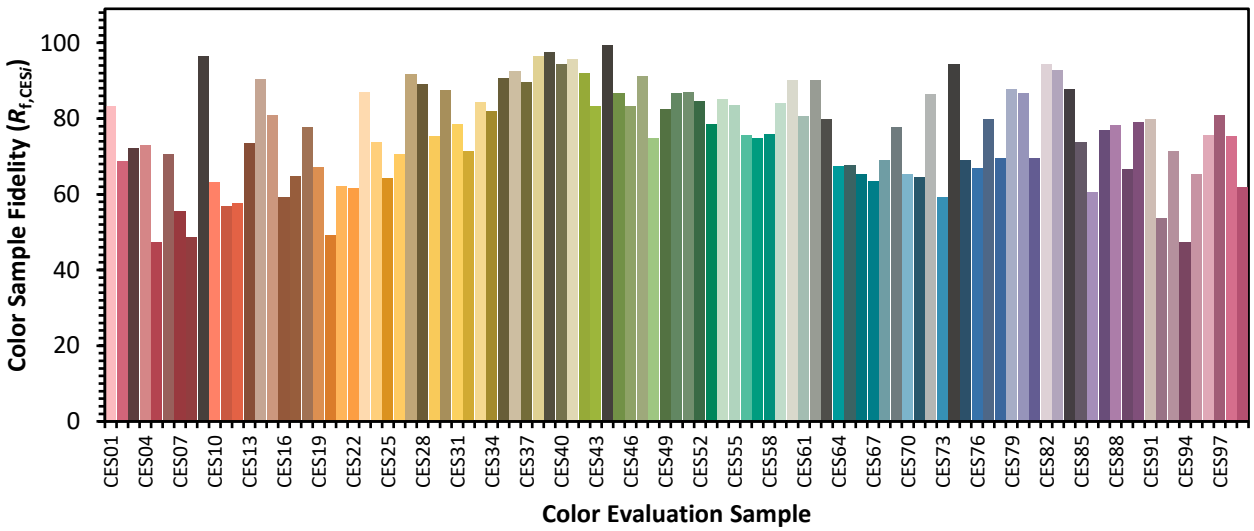


REPORT NUMBER: SP1-2501-319-10

TM-30-18

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

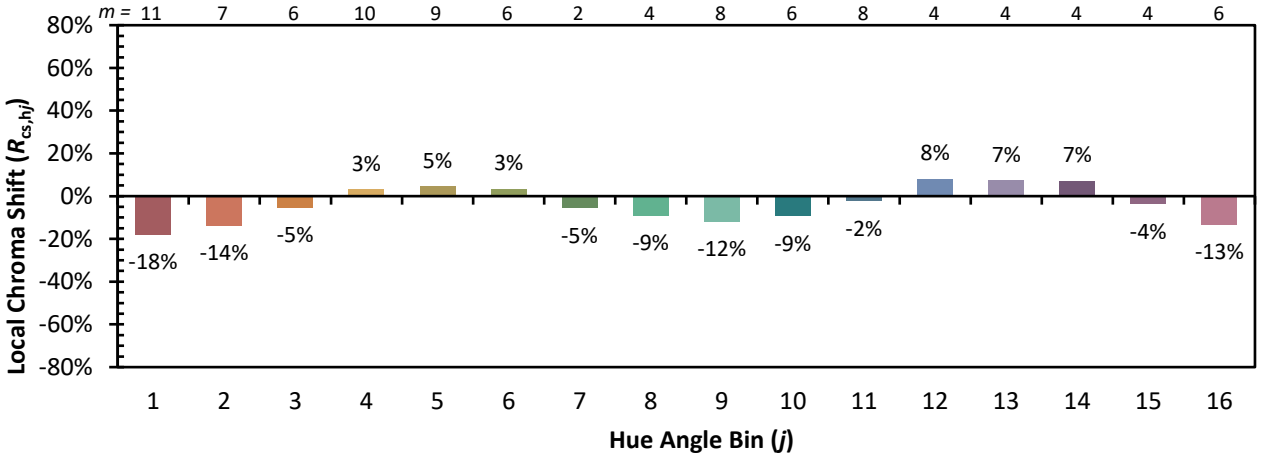
CES01 = 86	CES26 = 71	CES51 = 87	CES76 = 67
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 89	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 88
CES05 = 49	CES30 = 88	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 70
CES07 = 41	CES32 = 71	CES57 = 75	CES82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

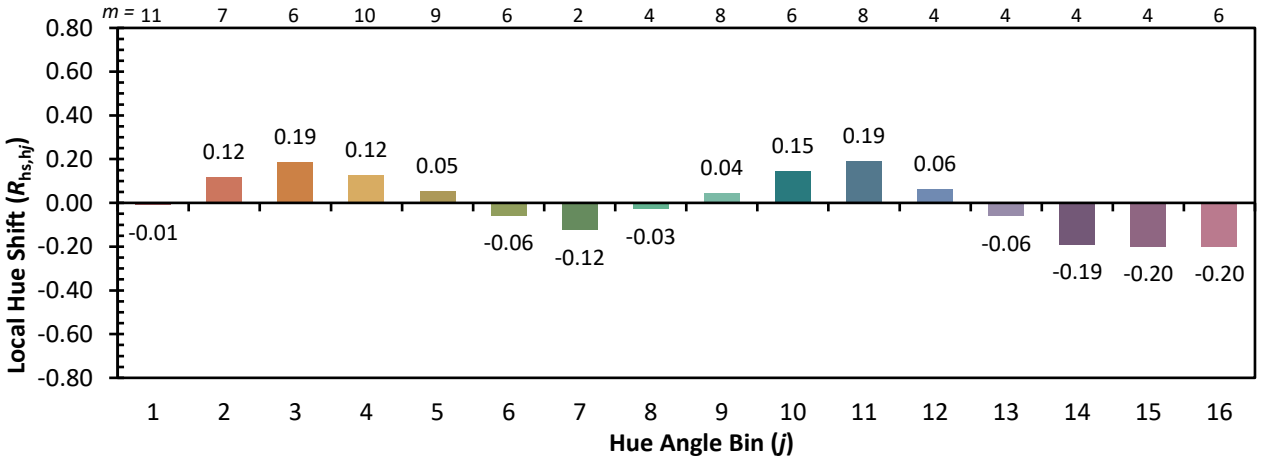


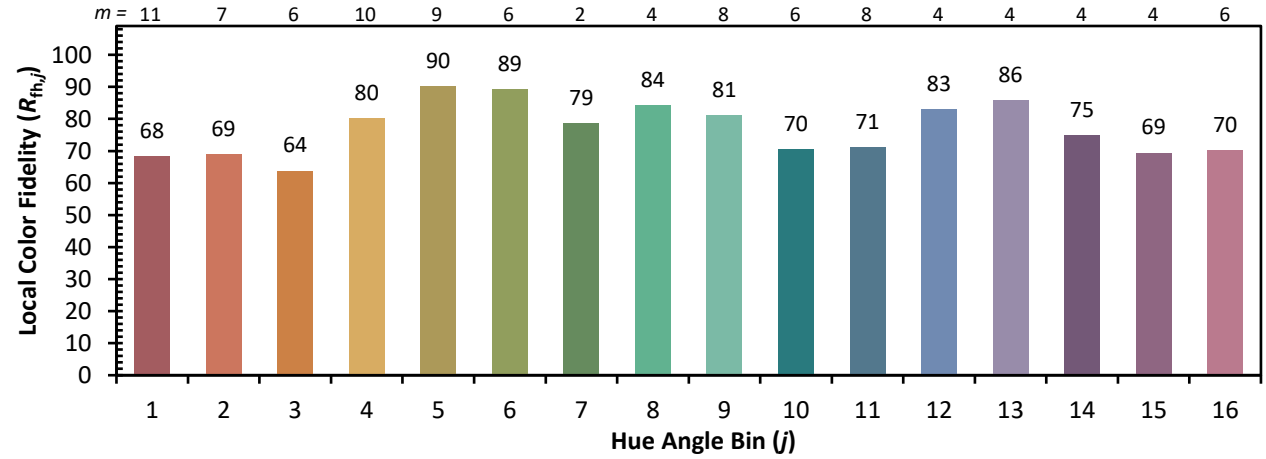
REPORT NUMBER: SP1-2501-319-10

TM-30-18

Color Rendition by Hue-Angle Bin



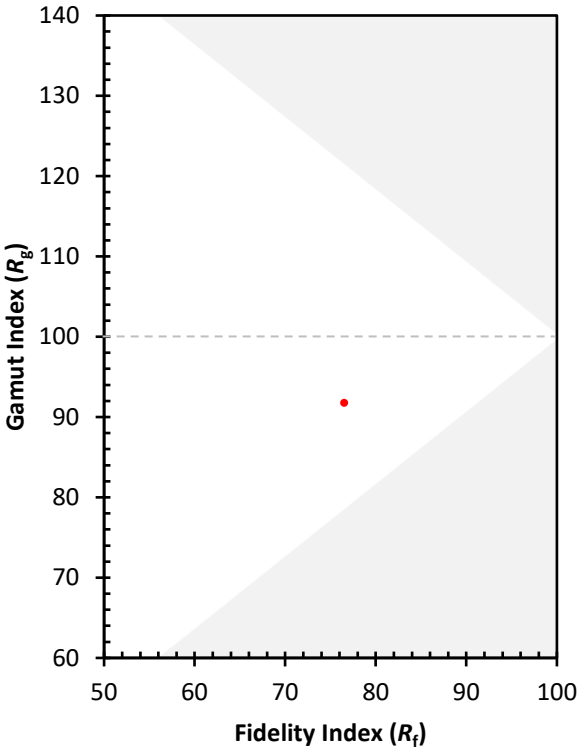


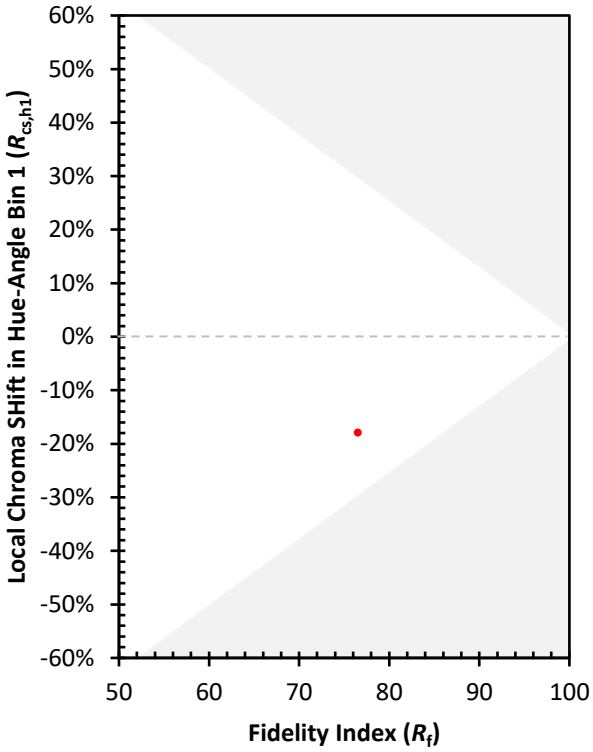


REPORT NUMBER: SP1-2501-319-10

TM-30-18

Measure Comparisons





(END OF REPORT)