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: P980942

Luminaire Tested: **NFFLD-S-C70-7027-66**

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:	P980942
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	04/10/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NFFLD-S-C70-7027-66
Description:	LUMARK NIGHT FALCON SMALL SIZE 20W 70CRI 2700K LED FIXTURE NEMA 6
Light Source:	(1) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2789.1 lumens
Efficiency:	N/A
Efficacy:	145.3 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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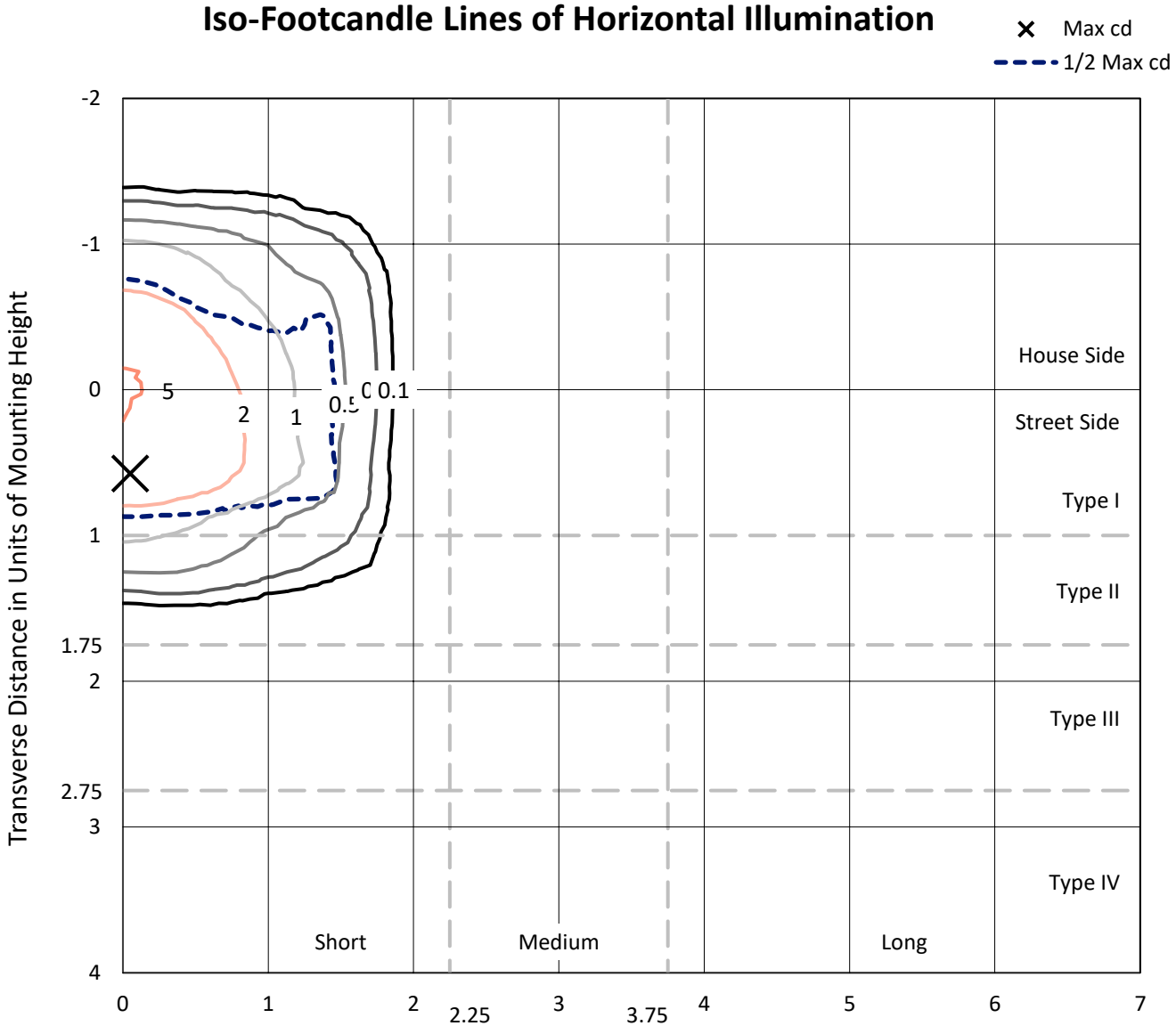
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 5.2 fc
Type I - Short - N/A

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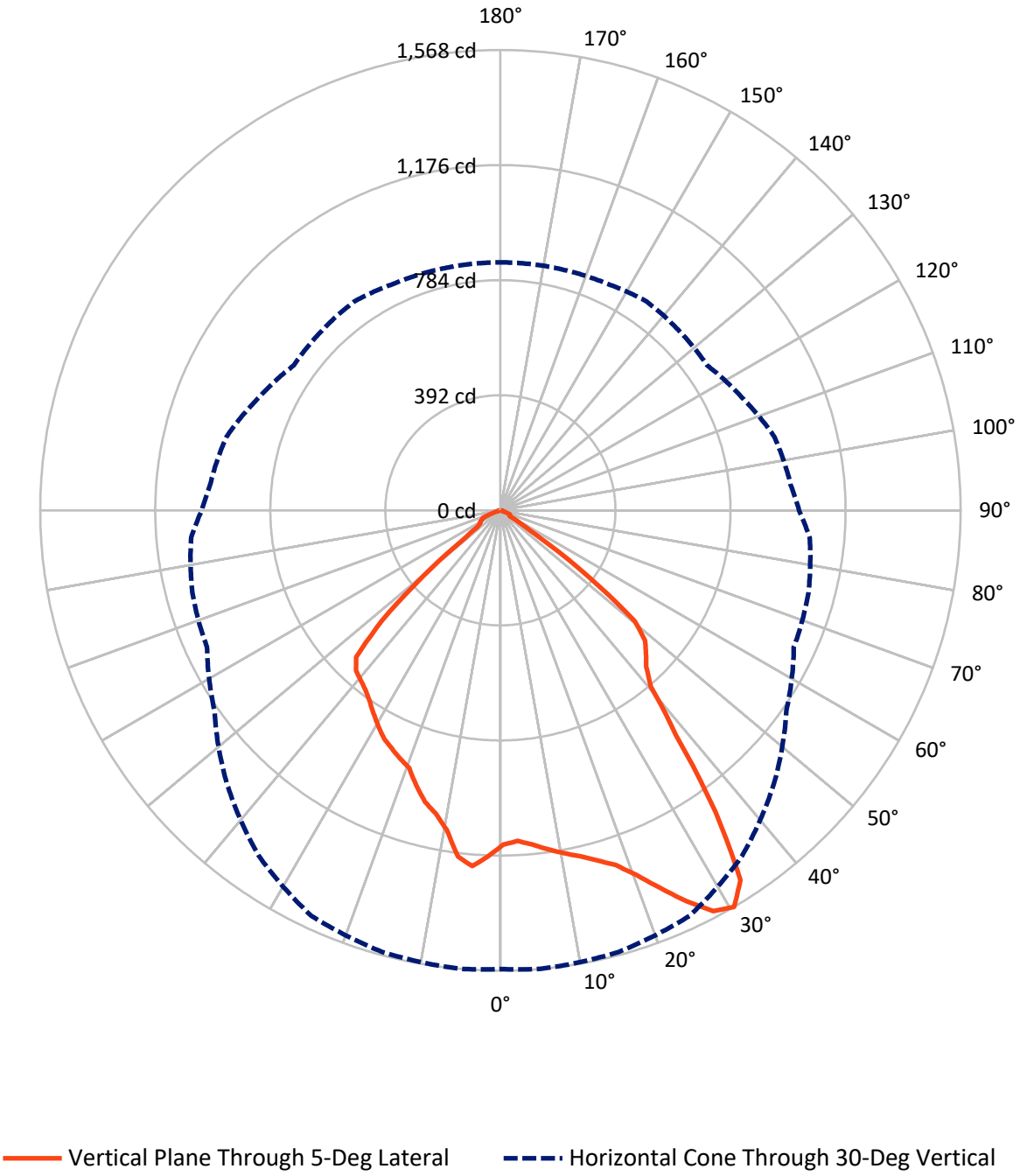
Luminous Intensity Polar Plot



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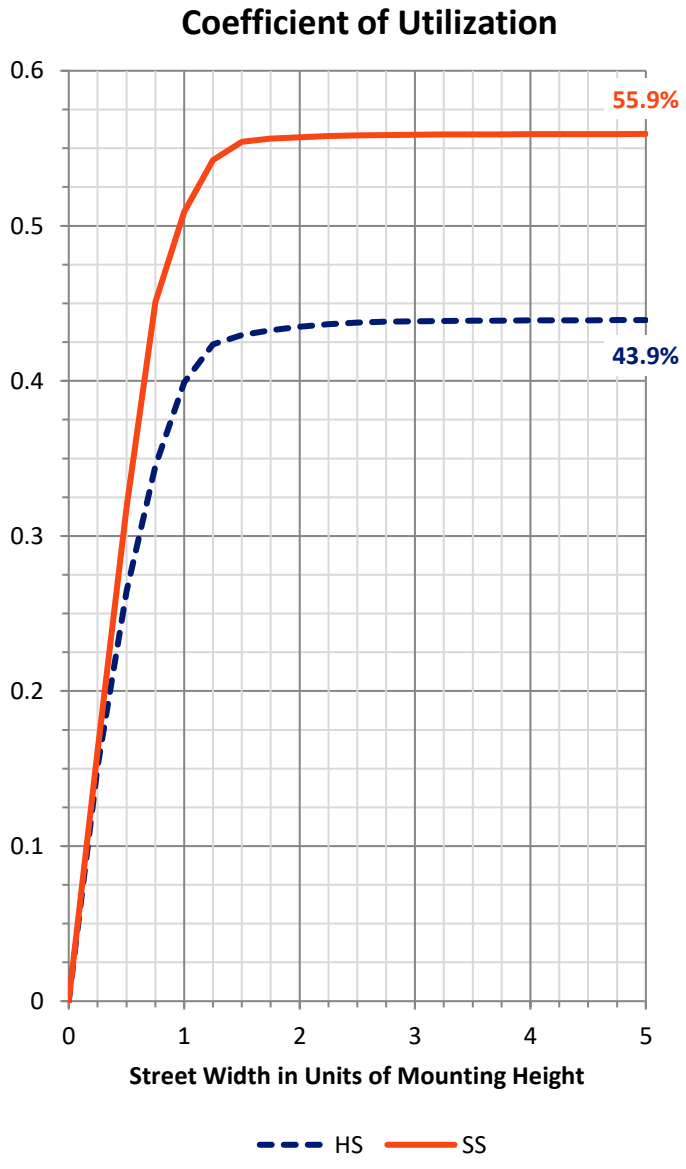
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.6	0.0	1233.6
	% Fixture	44.2	0.0	44.2
Street Side	Lumens	1555.5	0.0	1555.5
	% Fixture	55.8	0.0	55.8
Total	Lumens	2789.1	0.0	2789.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.0
10°-20°	322.6	11.6
20°-30°	514.1	18.4
30°-40°	642.7	23.0
40°-50°	630.7	22.6
50°-60°	450.9	16.2
60°-70°	99.8	3.6
70°-80°	15.3	0.5
80°-90°	1.6	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°	2789.1	100.0
0°-180°	2789.1	100.0



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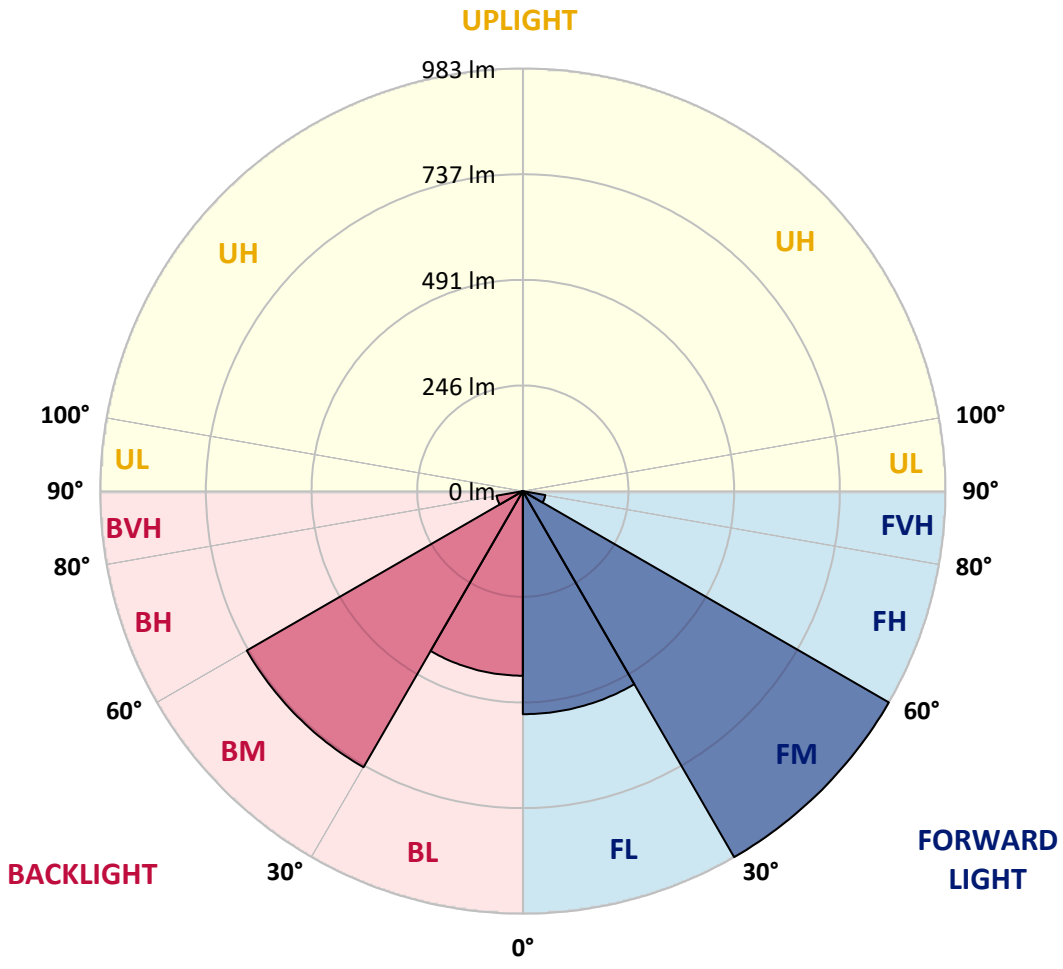
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	518.7	18.6			
FM	(30°-60°)	982.9	35.2			
FH	(60°-80°)	53.1	1.9			G0/660
FVH	(80°-90°)	0.8	0.0			G0/10
BL	(0°-30°)	429.3	15.4	B1/500		
BM	(30°-60°)	741.4	26.6	B1/1000		
BH	(60°-80°)	62.0	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: P980942
CATALOG NUMBER: NFFLD-S-C70-7027-66

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4
2.5°	1125.7	1127.5	1129.3	1132.0	1135.7	1137.5	1135.7	1133.9	1133.0	1134.8	1135.7
5°	1141.1	1143.9	1144.8	1146.6	1148.4	1146.6	1145.7	1143.9	1143.0	1143.9	1146.6
7.5°	1163.9	1165.7	1164.8	1163.9	1163.0	1156.6	1150.2	1147.5	1147.5	1150.2	1157.5
10°	1183.9	1187.5	1183.0	1179.4	1173.0	1163.0	1152.1	1145.7	1147.5	1153.0	1162.1
12.5°	1209.4	1209.4	1204.8	1201.2	1186.6	1174.8	1160.2	1150.2	1150.2	1160.2	1170.3
15°	1240.3	1237.6	1235.8	1225.8	1208.5	1189.4	1171.2	1156.6	1153.9	1169.4	1175.7
17.5°	1279.5	1269.5	1264.9	1247.6	1224.0	1199.4	1174.8	1163.0	1154.8	1171.2	1163.9
20°	1333.2	1325.9	1311.3	1284.0	1235.8	1203.9	1174.8	1159.3	1153.0	1162.1	1154.8
22.5°	1402.3	1397.8	1365.0	1330.4	1266.7	1207.6	1170.3	1149.3	1147.5	1143.0	1127.5
25°	1486.9	1475.1	1441.4	1392.3	1313.1	1243.1	1169.4	1131.1	1124.8	1112.9	1085.6
27.5°	1558.8	1546.1	1505.1	1461.5	1376.8	1295.8	1176.6	1109.3	1102.0	1093.8	1060.2
30°	1562.5	1567.9	1557.0	1524.2	1436.0	1317.7	1189.4	1102.9	1086.5	1057.4	1017.4
32.5°	1488.8	1501.5	1527.9	1539.7	1480.6	1344.1	1200.3	1105.7	1075.6	1005.6	972.8
35°	1236.7	1262.2	1370.5	1472.4	1493.3	1382.3	1209.4	1105.7	1072.0	968.2	942.8
37.5°	950.0	971.0	1062.9	1247.6	1436.9	1406.0	1229.4	1099.3	1067.4	971.0	936.4
40°	776.2	788.1	828.1	953.7	1238.5	1366.8	1249.4	1106.6	1053.8	972.8	940.0
42.5°	728.9	728.0	719.8	766.2	944.6	1252.2	1263.1	1124.8	1031.0	961.0	933.7
45°	697.1	695.2	688.0	697.1	747.1	1024.7	1253.1	1157.5	1002.8	919.1	900.9
47.5°	662.5	663.4	660.7	664.3	655.2	778.1	1196.7	1171.2	954.6	849.0	842.7
50°	579.7	593.3	629.7	633.4	609.7	627.9	1024.7	1164.8	920.0	829.0	823.6
52.5°	360.4	382.2	489.6	580.6	566.9	566.9	781.7	1173.9	858.1	821.7	825.4
55°	127.4	143.8	262.1	399.5	507.8	517.8	617.9	1044.7	850.9	834.5	838.1
57.5°	31.9	39.1	80.1	172.9	342.2	469.6	552.4	862.7	646.1	623.4	632.5
60°	37.3	36.4	50.1	55.5	132.9	371.3	497.8	582.4	416.8	390.4	394.9
62.5°	40.0	37.3	39.1	49.1	21.8	182.0	396.8	346.7	172.0	127.4	134.7
65°	35.5	33.7	30.9	45.5	15.5	33.7	233.9	101.9	24.6	39.1	35.5
67.5°	23.7	24.6	25.5	36.4	14.6	14.6	30.9	25.5	17.3	35.5	30.9
70°	13.7	14.6	17.3	21.8	14.6	11.8	13.7	20.9	14.6	35.5	30.9
72.5°	8.2	8.2	8.2	9.1	14.6	10.0	9.1	17.3	12.7	32.8	30.9
75°	6.4	6.4	6.4	5.5	12.7	6.4	6.4	13.7	10.9	23.7	23.7
77.5°	5.5	5.5	5.5	4.5	7.3	5.5	5.5	10.0	10.0	11.8	13.7
80°	3.6	3.6	3.6	3.6	4.5	4.5	3.6	5.5	4.5	5.5	6.4
82.5°	1.8	2.7	2.7	1.8	2.7	2.7	2.7	3.6	2.7	3.6	3.6
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	0.9	0.9	1.8
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: P980942
CATALOG NUMBER: NFFLD-S-C70-7027-66

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4	1138.4
2.5°	1137.5	1142.0	1148.4	1158.4	1162.1	1168.4	1173.9	1178.5	1178.5	1176.6
5°	1152.1	1164.8	1182.1	1197.6	1203.0	1209.4	1212.1	1216.7	1215.8	1214.9
7.5°	1164.8	1184.8	1203.0	1213.9	1212.1	1203.9	1198.5	1191.2	1188.5	1190.3
10°	1174.8	1193.0	1201.2	1193.9	1172.1	1153.0	1128.4	1112.0	1103.8	1106.6
12.5°	1178.5	1184.8	1177.5	1137.5	1110.2	1092.0	1072.0	1061.1	1056.5	1057.4
15°	1179.4	1164.8	1124.8	1094.7	1074.7	1052.0	1035.6	1025.6	1025.6	1026.5
17.5°	1160.2	1124.8	1090.2	1067.4	1039.2	1015.6	1006.5	1002.8	980.1	983.7
20°	1143.0	1092.0	1072.9	1037.4	1003.7	988.3	935.5	930.0	930.9	931.8
22.5°	1106.6	1068.3	1051.0	1004.6	966.4	923.6	916.4	910.9	911.8	911.8
25°	1056.5	1034.7	1011.0	962.8	916.4	908.2	902.7	895.4	891.8	892.7
27.5°	1028.3	1001.0	957.3	916.4	886.3	890.0	883.6	872.7	872.7	873.6
30°	*992.8*	*966.4*	*908.2*	*860.0*	*862.7*	*868.1*	*852.7*	*847.2*	*844.5*	*844.5*
32.5°	949.1	912.7	861.8	816.3	832.6	830.8	811.7	813.5	815.4	813.5
35°	916.4	869.1	826.3	801.7	795.3	788.1	778.1	784.4	787.1	785.3
37.5°	908.2	851.8	807.2	789.9	765.3	751.7	754.4	760.8	764.4	763.5
40°	905.5	834.5	790.8	772.6	739.8	728.0	731.6	744.4	748.9	748.0
42.5°	901.8	822.6	780.8	758.9	713.4	705.2	722.5	734.4	735.3	734.4
45°	882.7	809.9	774.4	730.7	673.4	683.4	705.2	711.6	700.7	696.1
47.5°	838.1	786.2	755.3	696.1	640.6	659.8	662.5	593.3	553.3	544.2
50°	825.4	787.1	733.5	655.2	620.6	639.7	520.5	397.7	347.6	337.6
52.5°	821.7	778.1	741.6	612.4	613.3	539.6	328.5	194.7	156.5	149.2
55°	830.8	818.1	755.3	587.0	570.6	351.3	152.9	91.9	94.6	91.9
57.5°	627.0	684.3	771.7	546.9	416.8	169.3	96.5	89.2	82.8	81.0
60°	391.3	445.9	565.1	470.5	213.8	101.0	98.3	82.8	80.1	79.2
62.5°	129.2	198.4	324.0	309.4	59.1	100.1	99.2	73.7	73.7	73.7
65°	32.8	33.7	89.2	106.5	43.7	89.2	94.6	69.2	67.3	70.1
67.5°	28.2	25.5	47.3	41.9	36.4	61.9	82.8	66.4	62.8	62.8
70°	28.2	30.0	46.4	39.1	22.8	33.7	60.1	41.0	36.4	33.7
72.5°	26.4	29.1	41.0	35.5	15.5	16.4	26.4	13.7	12.7	10.9
75°	22.8	23.7	31.9	31.9	16.4	8.2	10.9	9.1	9.1	8.2
77.5°	15.5	11.8	18.2	22.8	11.8	5.5	4.5	4.5	4.5	3.6
80°	8.2	4.5	4.5	3.6	4.5	4.5	2.7	3.6	3.6	2.7
82.5°	4.5	2.7	2.7	1.8	1.8	2.7	1.8	1.8	1.8	1.8
85°	1.8	1.8	0.9	0.9	0.9	1.8	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: SP1-2501-319-9

Test Date: 02/05/2025

Luminaire Tested: NFFLD-C55-7027-66

Data in this report applies to families of products including NFFLD-C55-7027-66

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

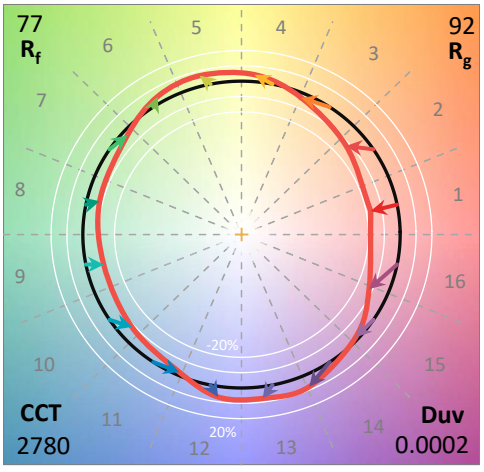
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-319-9
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-C55-7027-66**
Description:	LUMARK NIGHT FALCON 16900LM NEMA 6

Spectral Parameters

CCT (K):	2780	CRI (Ra):	72.0		
CIE u':	0.2590	R1:	68.2	R9:	-35.8
CIE v':	0.5260	R2:	85.1	R10:	68.0
Duv:	0.0002	R3:	93.3	R11:	62.3
CIE x:	0.4536	R4:	66.5	R12:	62.2
CIE y:	0.4095	R5:	68.5	R13:	71.6
CIE z:	0.1369	R6:	81.1	R14:	96.6
Peak Wavelength (nm):	597	R7:	74.6	R15:	59.0
Dominant Wavelength (nm):	583	R8:	38.9		
Purity:	59.08593				

Rf:	77.4
Rg:	92.5



Test Conditions

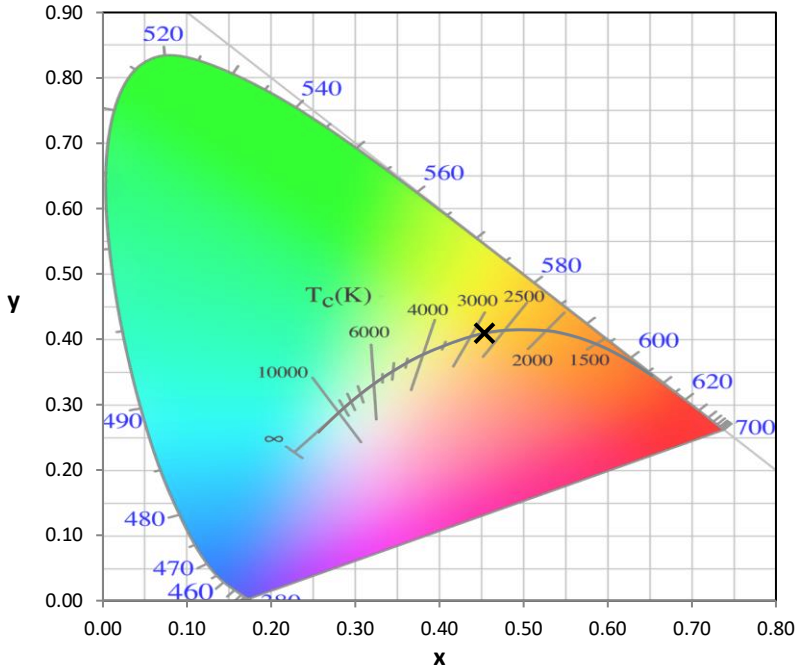
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-319-9

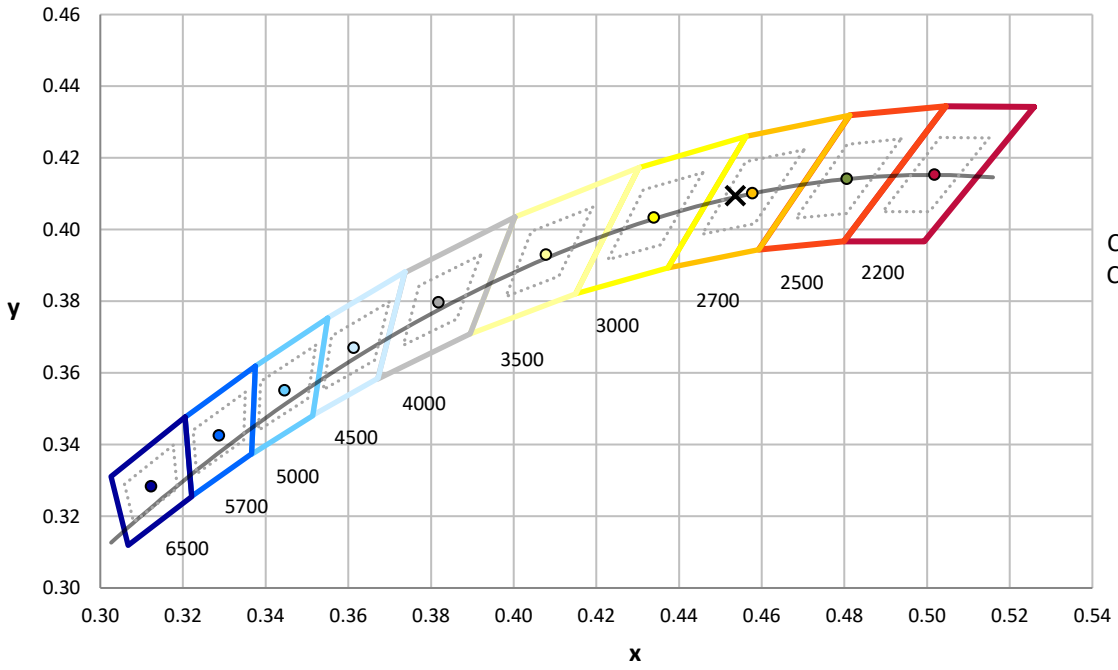
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/212025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-319-9

CIE 1931 Chromaticity Diagram



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

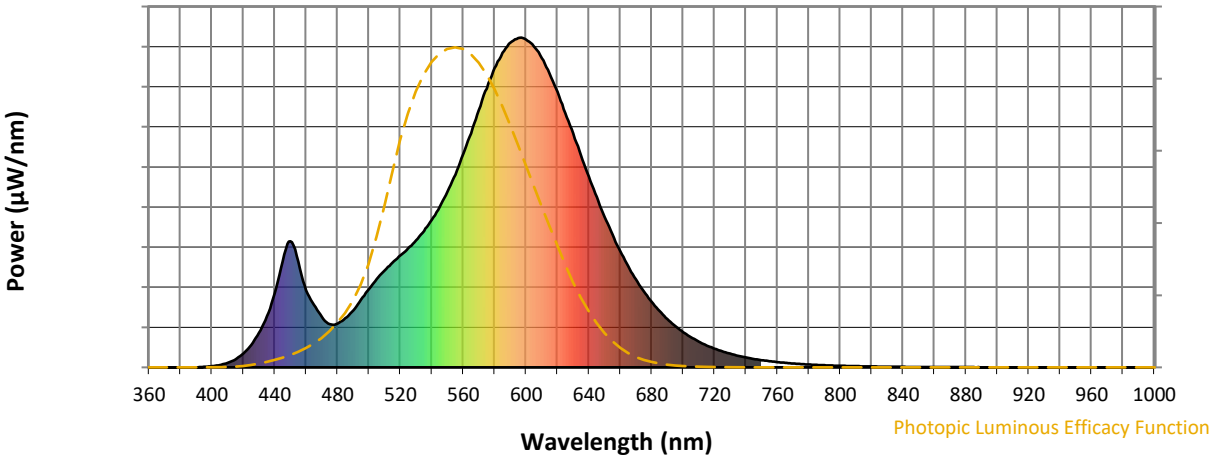


CCT = 2780K
CIE x = 0.4536
CIE y = 0.4095
Duv = 0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-319-9

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	173	NR	620	836	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	771	NR	755	19	NR	885	1	NR
370	0	NR	500	238	NR	630	710	NR	760	16	NR	890	0	NR
375	0	NR	505	268	NR	635	643	NR	765	14	NR	895	0	NR
380	0	NR	510	294	NR	640	578	NR	770	12	NR	900	0	NR
385	0	NR	515	317	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	340	NR	650	456	NR	780	9	NR	910	0	NR
395	2	NR	525	361	NR	655	403	NR	785	8	NR	915	0	NR
400	4	NR	530	386	NR	660	352	NR	790	6	NR	920	0	NR
405	7	NR	535	413	NR	665	307	NR	795	6	NR	925	0	NR
410	14	NR	540	447	NR	670	266	NR	800	5	NR	930	0	NR
415	25	NR	545	487	NR	675	230	NR	805	4	NR	935	0	NR
420	42	NR	550	533	NR	680	199	NR	810	4	NR	940	0	NR
425	68	NR	555	585	NR	685	170	NR	815	3	NR	945	0	NR
430	104	NR	560	647	NR	690	147	NR	820	3	NR	950	0	NR
435	155	NR	565	710	NR	695	125	NR	825	2	NR	955	0	NR
440	224	NR	570	780	NR	700	107	NR	830	2	NR	960	0	NR
445	322	NR	575	846	NR	705	92	NR	835	2	NR	965	0	NR
450	382	NR	580	907	NR	710	78	NR	840	2	NR	970	0	NR
455	321	NR	585	954	NR	715	66	NR	845	1	NR	975	0	NR
460	234	NR	590	985	NR	720	57	NR	850	1	NR	980	0	NR
465	189	NR	595	999	NR	725	48	NR	855	1	NR	985	0	NR
470	152	NR	600	994	NR	730	41	NR	860	1	NR	990	0	NR
475	131	NR	605	973	NR	735	35	NR	865	1	NR	995	0	NR
480	133	NR	610	938	NR	740	30	NR	870	1	NR	1000	0	NR
485	150	NR	615	891	NR	745	26	NR	875	1	NR			

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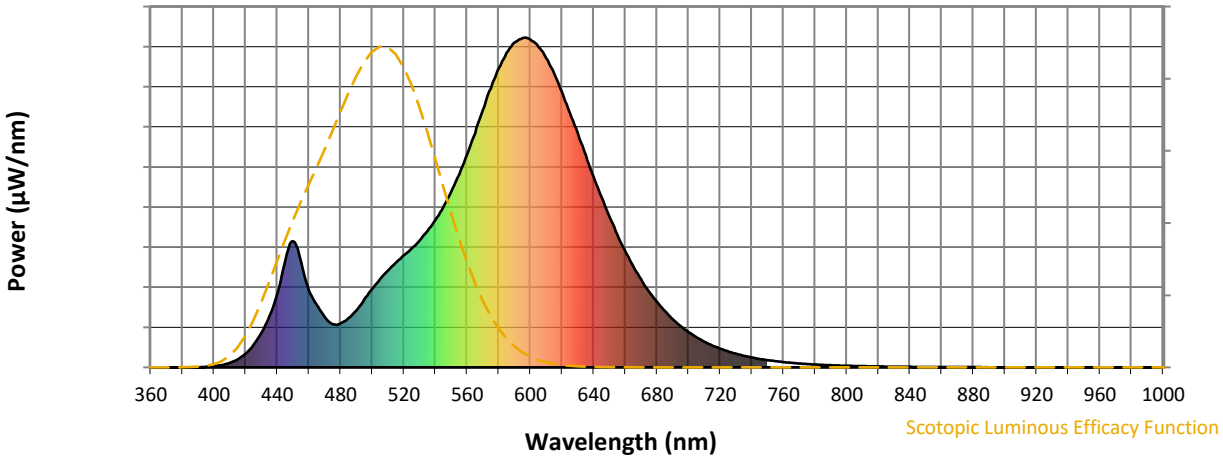
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.17**

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	173	NR	620	836	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	771	NR	755	19	NR	885	1	NR
370	0	NR	500	238	NR	630	710	NR	760	16	NR	890	0	NR
375	0	NR	505	268	NR	635	643	NR	765	14	NR	895	0	NR
380	0	NR	510	294	NR	640	578	NR	770	12	NR	900	0	NR
385	0	NR	515	317	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	340	NR	650	456	NR	780	9	NR	910	0	NR
395	2	NR	525	361	NR	655	403	NR	785	8	NR	915	0	NR
400	4	NR	530	386	NR	660	352	NR	790	6	NR	920	0	NR
405	7	NR	535	413	NR	665	307	NR	795	6	NR	925	0	NR
410	14	NR	540	447	NR	670	266	NR	800	5	NR	930	0	NR
415	25	NR	545	487	NR	675	230	NR	805	4	NR	935	0	NR
420	42	NR	550	533	NR	680	199	NR	810	4	NR	940	0	NR
425	68	NR	555	585	NR	685	170	NR	815	3	NR	945	0	NR
430	104	NR	560	647	NR	690	147	NR	820	3	NR	950	0	NR
435	155	NR	565	710	NR	695	125	NR	825	2	NR	955	0	NR
440	224	NR	570	780	NR	700	107	NR	830	2	NR	960	0	NR
445	322	NR	575	846	NR	705	92	NR	835	2	NR	965	0	NR
450	382	NR	580	907	NR	710	78	NR	840	2	NR	970	0	NR
455	321	NR	585	954	NR	715	66	NR	845	1	NR	975	0	NR
460	234	NR	590	985	NR	720	57	NR	850	1	NR	980	0	NR
465	189	NR	595	999	NR	725	48	NR	855	1	NR	985	0	NR
470	152	NR	600	994	NR	730	41	NR	860	1	NR	990	0	NR
475	131	NR	605	973	NR	735	35	NR	865	1	NR	995	0	NR
480	133	NR	610	938	NR	740	30	NR	870	1	NR	1000	0	NR
485	150	NR	615	891	NR	745	26	NR	875	1	NR			

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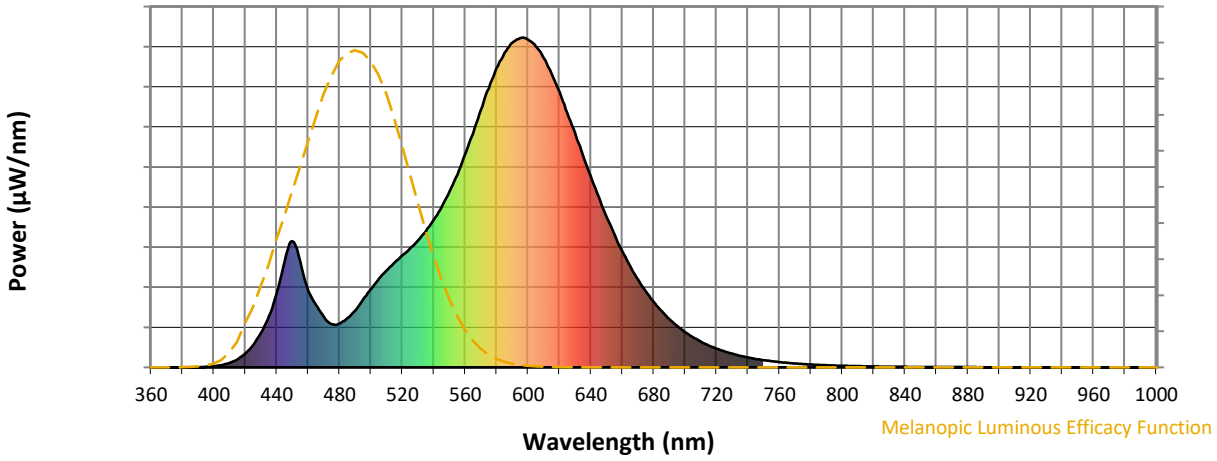
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	173	NR	620	836	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	771	NR	755	19	NR	885	1	NR
370	0	NR	500	238	NR	630	710	NR	760	16	NR	890	0	NR
375	0	NR	505	268	NR	635	643	NR	765	14	NR	895	0	NR
380	0	NR	510	294	NR	640	578	NR	770	12	NR	900	0	NR
385	0	NR	515	317	NR	645	516	NR	775	10	NR	905	0	NR
390	0	NR	520	340	NR	650	456	NR	780	9	NR	910	0	NR
395	2	NR	525	361	NR	655	403	NR	785	8	NR	915	0	NR
400	4	NR	530	386	NR	660	352	NR	790	6	NR	920	0	NR
405	7	NR	535	413	NR	665	307	NR	795	6	NR	925	0	NR
410	14	NR	540	447	NR	670	266	NR	800	5	NR	930	0	NR
415	25	NR	545	487	NR	675	230	NR	805	4	NR	935	0	NR
420	42	NR	550	533	NR	680	199	NR	810	4	NR	940	0	NR
425	68	NR	555	585	NR	685	170	NR	815	3	NR	945	0	NR
430	104	NR	560	647	NR	690	147	NR	820	3	NR	950	0	NR
435	155	NR	565	710	NR	695	125	NR	825	2	NR	955	0	NR
440	224	NR	570	780	NR	700	107	NR	830	2	NR	960	0	NR
445	322	NR	575	846	NR	705	92	NR	835	2	NR	965	0	NR
450	382	NR	580	907	NR	710	78	NR	840	2	NR	970	0	NR
455	321	NR	585	954	NR	715	66	NR	845	1	NR	975	0	NR
460	234	NR	590	985	NR	720	57	NR	850	1	NR	980	0	NR
465	189	NR	595	999	NR	725	48	NR	855	1	NR	985	0	NR
470	152	NR	600	994	NR	730	41	NR	860	1	NR	990	0	NR
475	131	NR	605	973	NR	735	35	NR	865	1	NR	995	0	NR
480	133	NR	610	938	NR	740	30	NR	870	1	NR	1000	0	NR
485	150	NR	615	891	NR	745	26	NR	875	1	NR			

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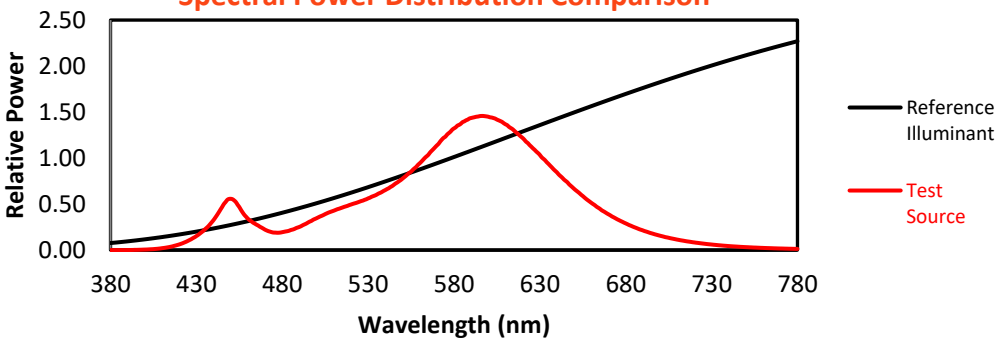
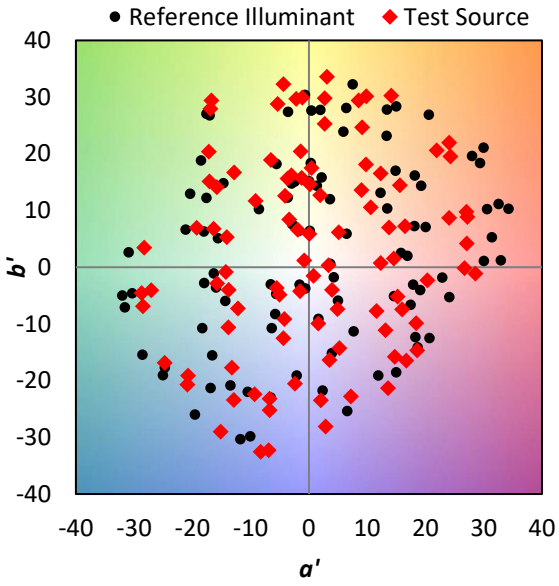
Summary

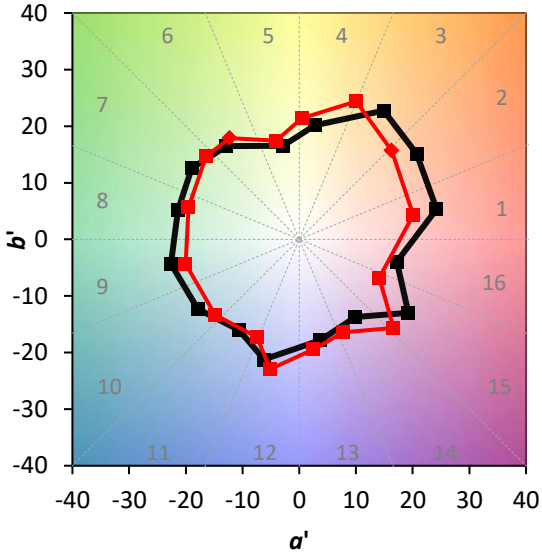
R_f = 77.4
R_g = 92.5
CIE R_a = 72.0
R_9 = -35.8

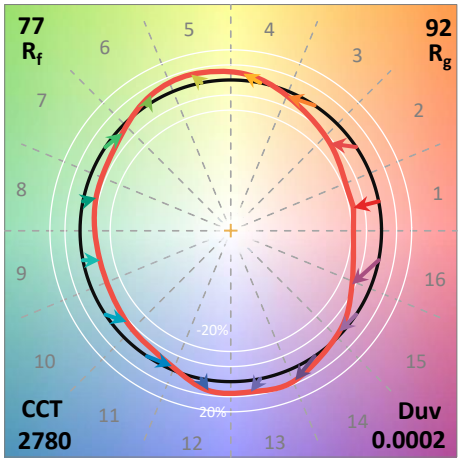
Spectral Power Distribution Comparison

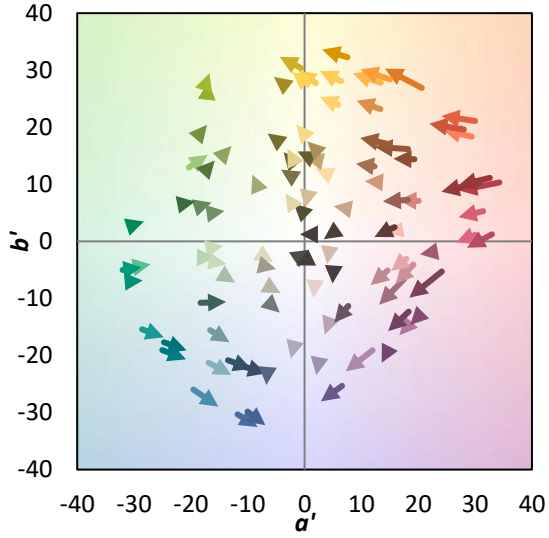


Color Vector Graphics









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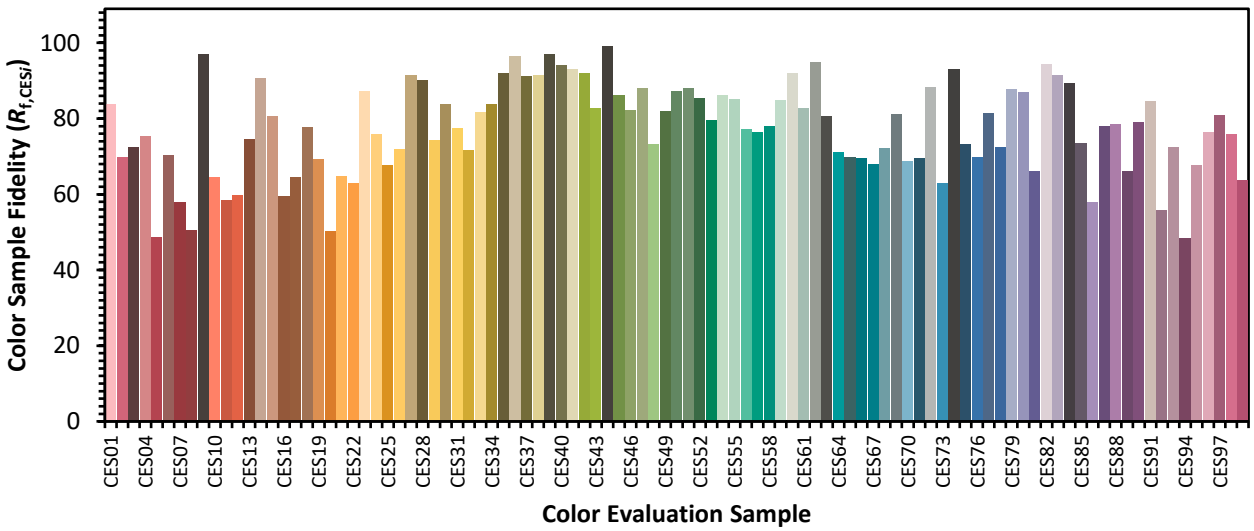
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 70
CES02 = 63	CES27 = 91	CES52 = 85	CES77 = 81
CES03 = 31	CES28 = 90	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 74	CES54 = 86	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 85	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 77	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 76	CES82 = 95
CES08 = 40	CES33 = 82	CES58 = 78	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 74
CES11 = 60	CES36 = 96	CES61 = 83	CES86 = 58
CES12 = 66	CES37 = 91	CES62 = 95	CES87 = 78
CES13 = 43	CES38 = 92	CES63 = 81	CES88 = 78
CES14 = 74	CES39 = 97	CES64 = 71	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 70	CES90 = 79
CES16 = 47	CES41 = 93	CES66 = 70	CES91 = 85
CES17 = 50	CES42 = 92	CES67 = 68	CES92 = 56
CES18 = 57	CES43 = 83	CES68 = 72	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 81	CES94 = 48
CES20 = 67	CES45 = 86	CES70 = 69	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 88	CES97 = 81
CES23 = 92	CES48 = 73	CES73 = 63	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 93	CES99 = 64
CES25 = 73	CES50 = 87	CES75 = 73	



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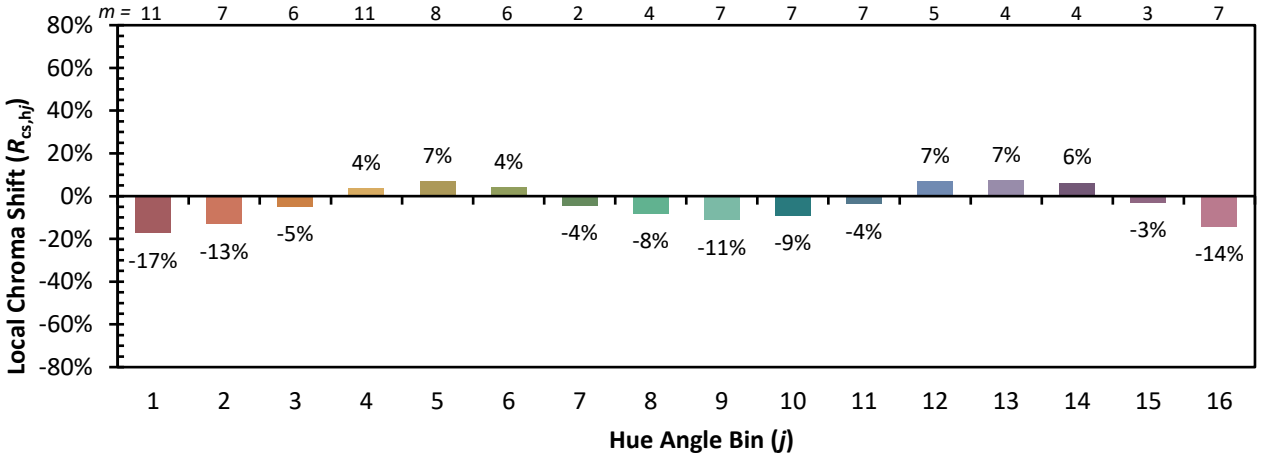
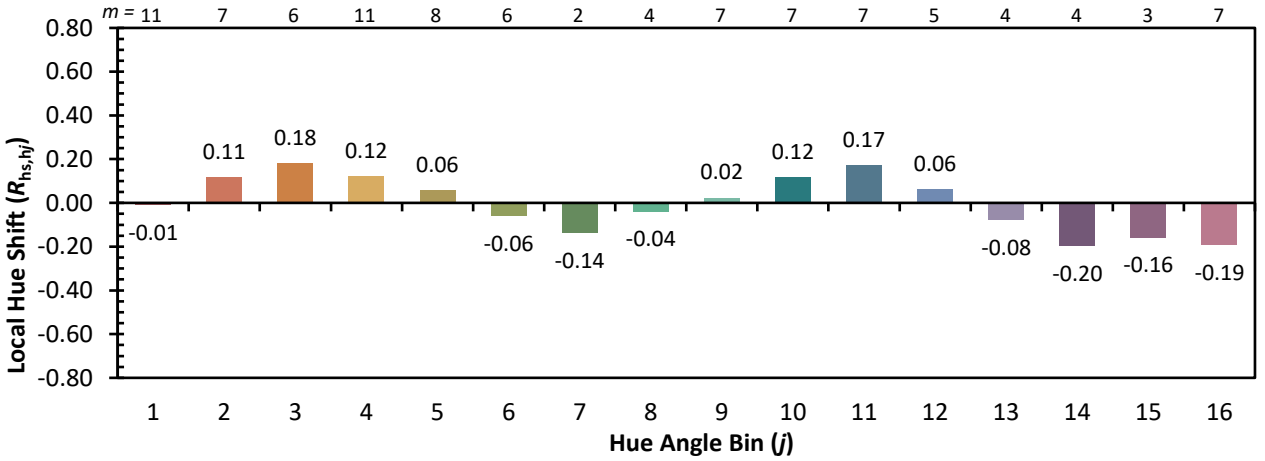
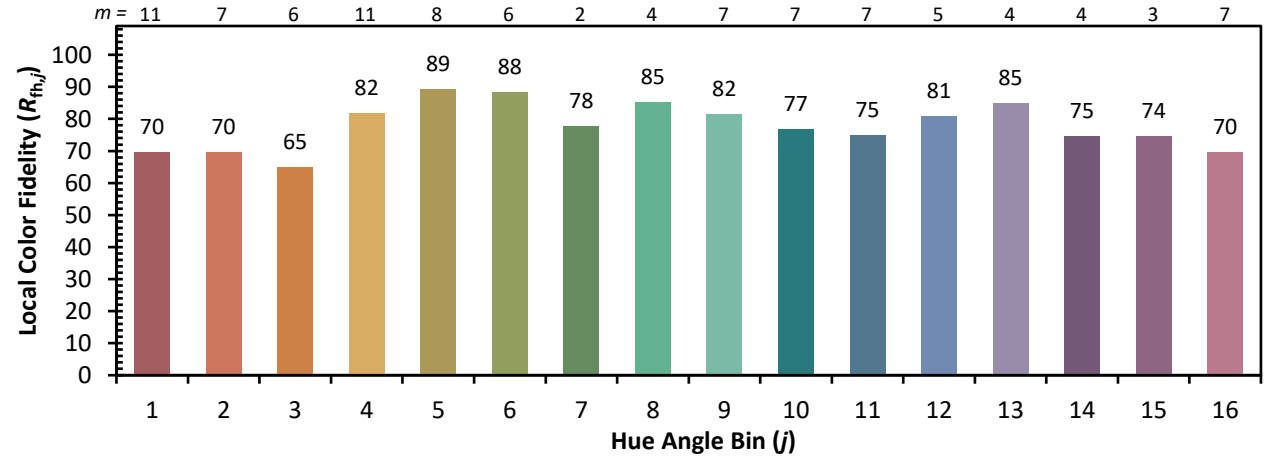
Color Rendition by Hue-Angle Bin







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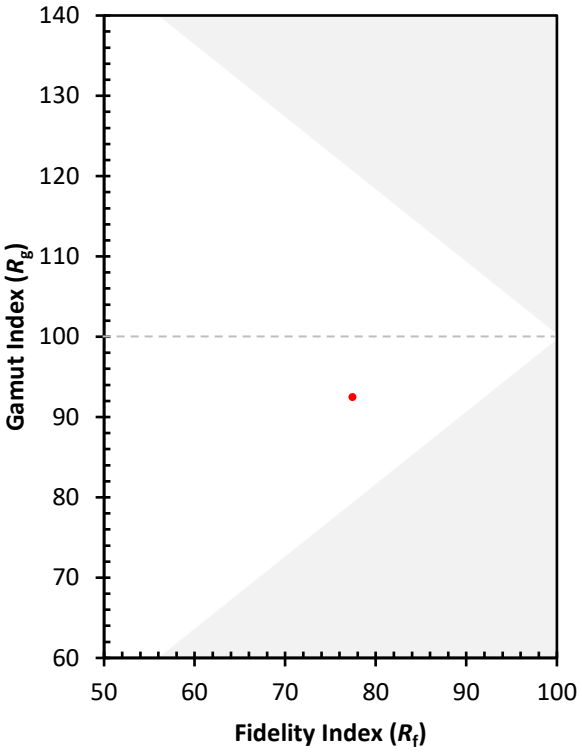
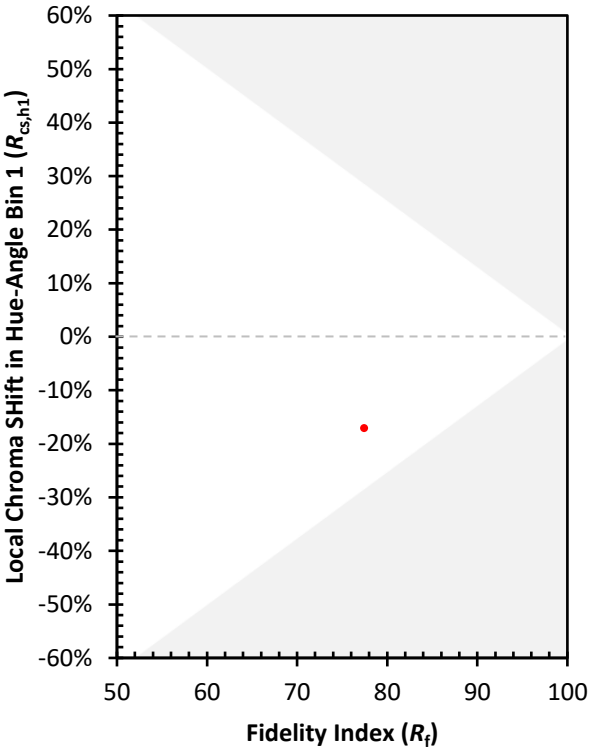
Measure Comparisons





(END OF REPORT)