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: INVUE

Report Number: P879778

Luminaire Tested: **EMM2-HSN-VA7-735-U-RW**

Issue Date: 10/01/2024

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:	P879778
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	10/01/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-VA7-735-U-RW
Description:	EPIC MODERN SHORT HOUSING 7W 70CRI 3500K WAVESTREAM FIXTURE w/ RECTANGULAR WIDE DISTRIBUTION OPTIC
Light Source:	(1) 3500K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13307.3 lumens
Efficiency:	N/A
Efficacy:	102.4 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	130
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.995
Total Harmonic Distortion (THDi):	8.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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Scaled Data Report

REPORT NUMBER: P879778
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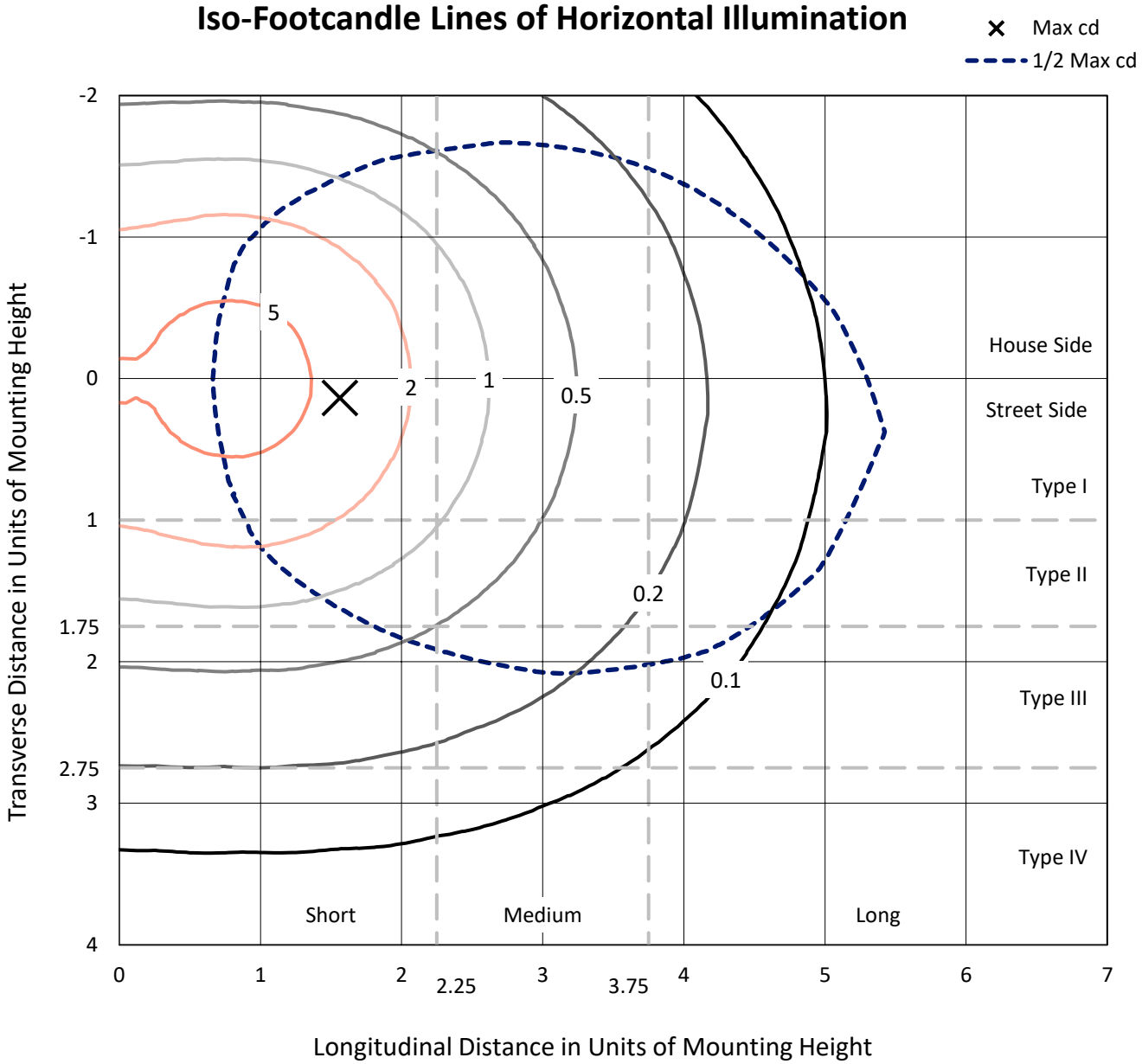
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Short - N/A

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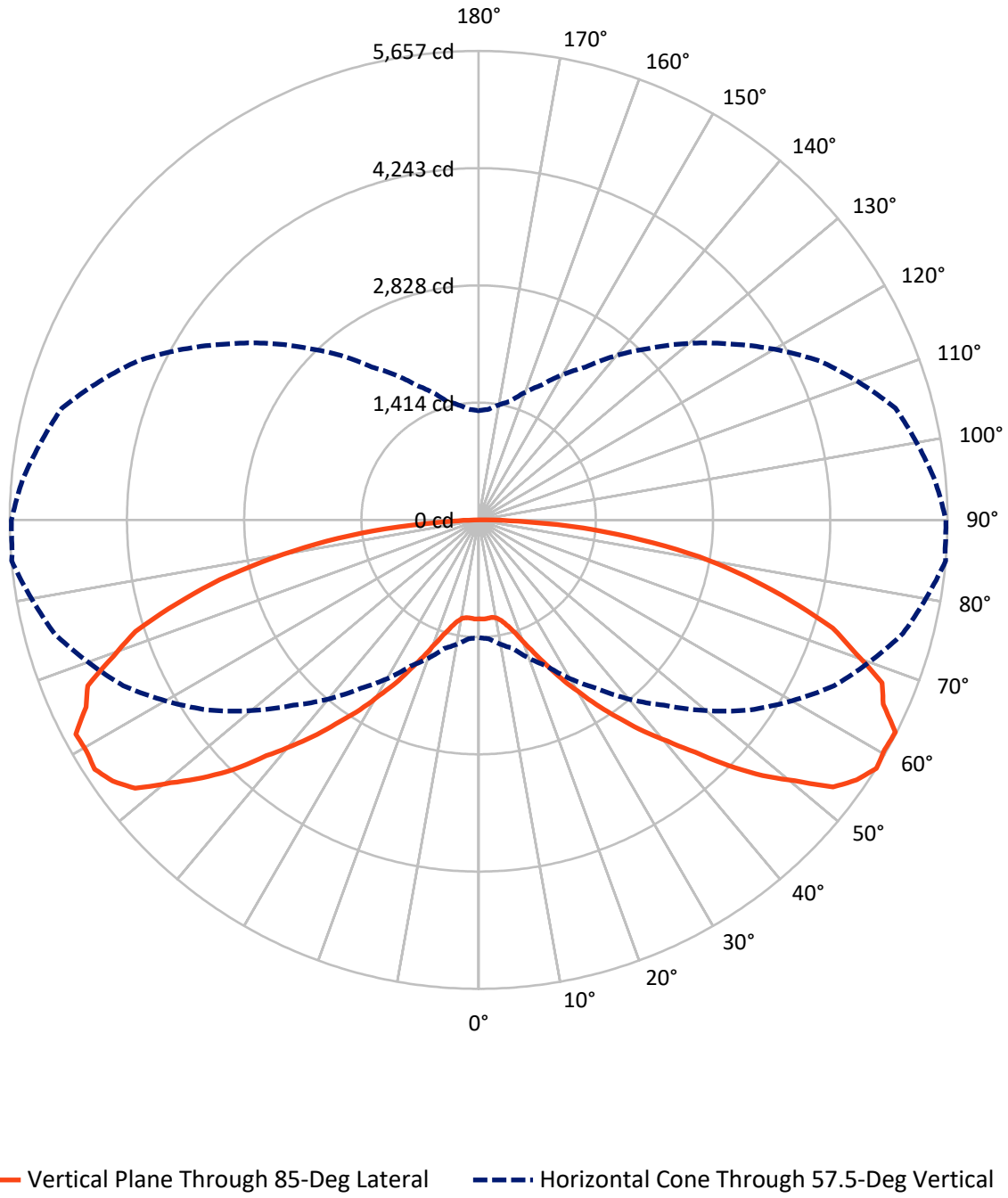
Luminous Intensity Polar Plot



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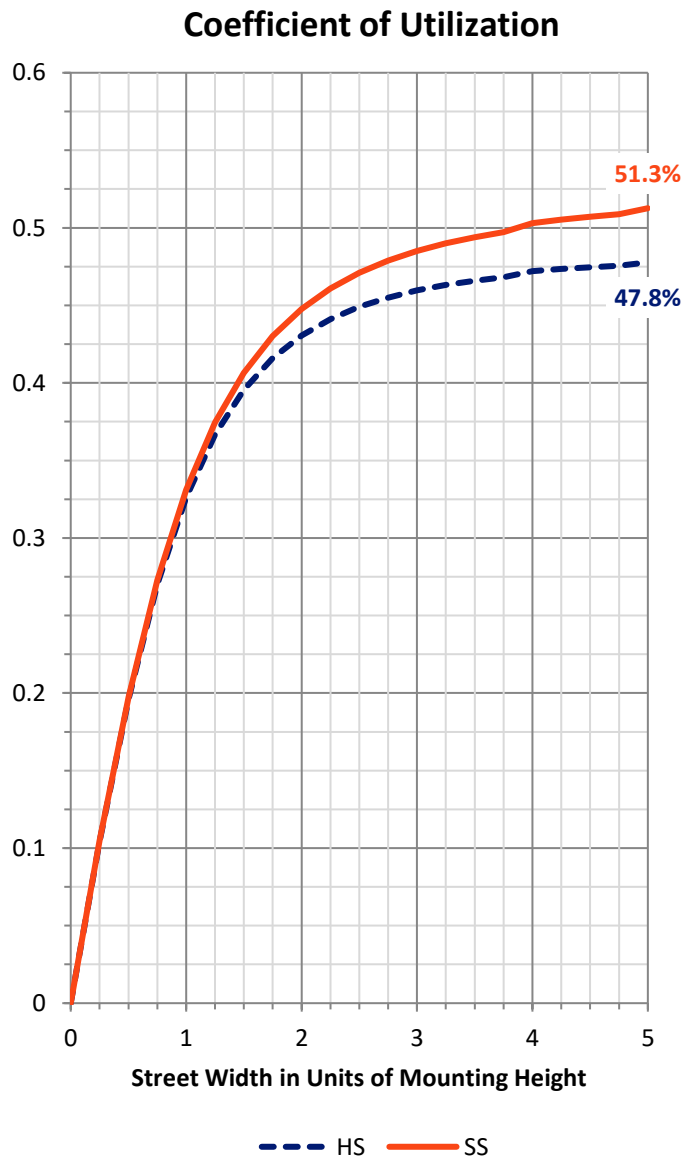
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6383.6	0.0	6383.6
	% Fixture	48.0	0.0	48.0
Street Side	Lumens	6923.7	0.0	6923.7
	% Fixture	52.0	0.0	52.0
Total	Lumens	13307.3	0.0	13307.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	0.9
10°-20°	357.5	2.7
20°-30°	729.7	5.5
30°-40°	1305.3	9.8
40°-50°	2091.6	15.7
50°-60°	2882.2	21.7
60°-70°	2985.7	22.4
70°-80°	2174.7	16.3
80°-90°	667.3	5.0
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°	13307.3	100.0
0°-180°	13307.3	100.0



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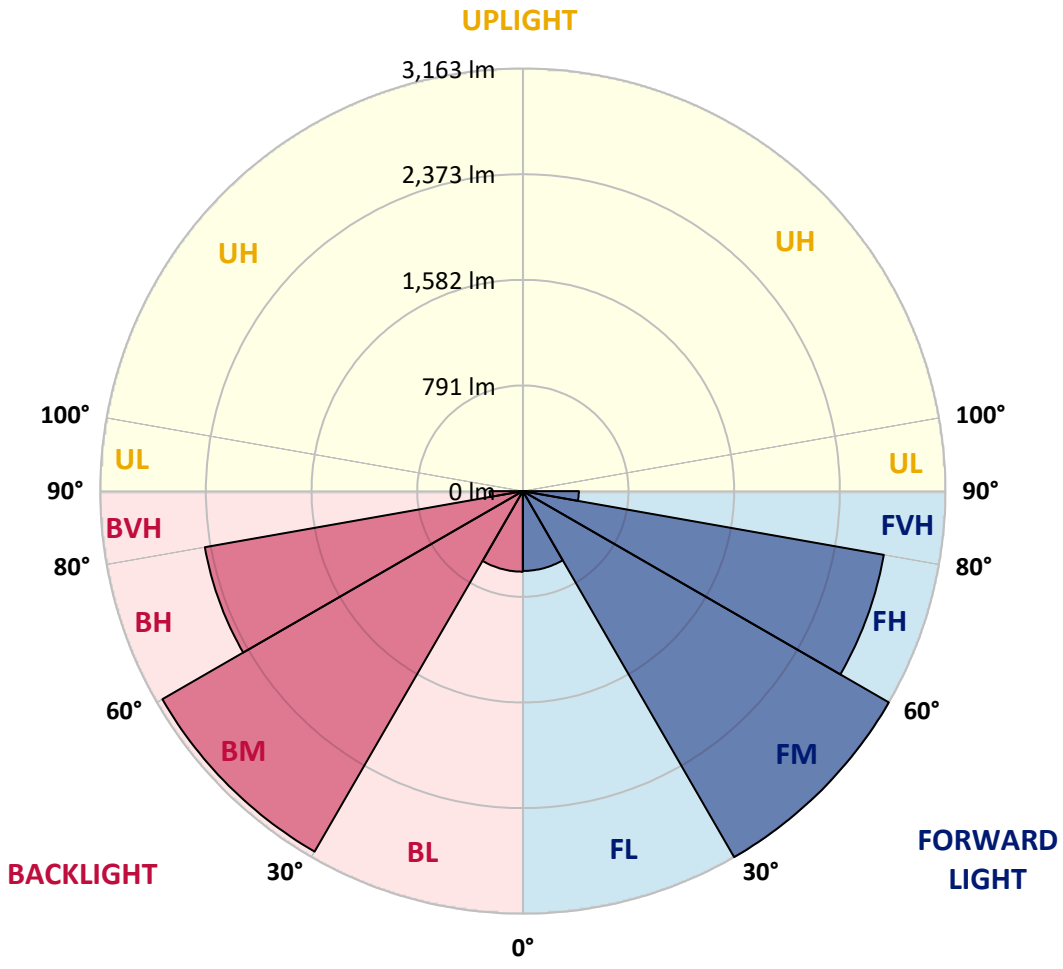
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	597.3	4.5			
FM	(30°-60°)	3163.4	23.8			
FH	(60°-80°)	2743.8	20.6			G2/5000
FVH	(80°-90°)	419.2	3.2			G3/500
BL	(0°-30°)	603.2	4.5	B2/1000		
BM	(30°-60°)	3115.7	23.4	B3/5000		
BH	(60°-80°)	2416.5	18.2	B3/2500		G3/2500
BVH	(80°-90°)	248.2	1.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Short



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REPORT NUMBER: P879778
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	86°
0°	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	*1192.9*	1192.9
2.5°	1193.8	1193.8	1196.6	1198.5	1200.4	1200.4	1201.3	1200.4	1199.4	*1198.5*	1198.5
5°	1197.5	1197.5	1202.2	1205.0	1205.0	1203.2	1201.3	1197.5	1194.7	*1191.0*	1191.0
7.5°	1192.9	1191.9	1193.8	1192.9	1191.9	1191.0	1189.1	1187.2	1186.3	*1187.2*	1187.2
10°	1175.1	1175.1	1175.1	1176.0	1179.7	1185.4	1190.0	1195.7	1200.4	*1204.1*	1203.2
12.5°	1161.0	1161.9	1164.7	1172.2	1181.6	1193.8	1209.7	1226.6	1240.6	*1251.0*	1250.0
15°	1150.7	1153.5	1161.9	1176.9	1197.5	1223.8	1254.7	1290.3	1317.5	*1330.6*	1331.5
17.5°	1151.6	1155.4	1170.4	1192.9	1224.7	1271.6	1323.1	1380.3	1425.2	*1438.4*	1440.2
20°	1153.5	1156.3	1176.9	1215.3	1269.7	1334.3	1411.2	1489.9	1551.7	*1587.3*	1589.2
22.5°	1160.1	1161.9	1188.2	1240.6	1316.5	1418.7	1520.8	1631.4	1717.6	*1760.7*	1777.6
25°	1163.8	1166.6	1204.1	1278.1	1380.3	1516.1	1652.0	1797.2	1907.8	*1967.8*	1977.2
27.5°	1171.3	1177.9	1222.8	1317.5	1456.2	1630.5	1817.9	1980.0	2129.0	*2202.0*	2191.7
30°	1187.2	1194.7	1251.9	1366.2	1539.6	1763.5	1971.5	2189.9	2343.5	*2428.8*	2439.1
32.5°	1205.0	1213.5	1280.9	1420.6	1628.6	1880.6	2148.6	2387.6	2592.8	*2693.1*	2694.9
35°	1235.0	1244.4	1325.0	1479.6	1720.4	2003.4	2331.4	2608.7	2828.9	*2952.6*	2966.7
37.5°	1248.1	1257.5	1353.1	1550.8	1809.4	2157.1	2503.8	2823.3	3101.6	*3237.5*	3248.7
40°	1288.4	1301.6	1394.3	1596.7	1916.3	2287.3	2679.0	3068.8	3365.9	*3510.2*	3520.5
42.5°	1306.2	1323.1	1443.0	1663.3	2005.3	2413.8	2887.0	3334.0	3649.8	*3830.6*	3826.9
45°	1331.5	1345.6	1467.4	1737.3	2089.6	2587.2	3117.5	3617.9	4008.7	*4229.8*	4230.7
47.5°	1385.9	1403.7	1518.0	1792.6	2209.5	2758.7	3352.7	3906.5	4392.9	*4609.3*	4591.5
50°	1393.4	1415.9	1572.4	1857.2	2318.2	2891.7	3534.5	4174.5	4712.4	*4944.8*	4917.6
52.5°	1418.7	1435.5	1578.9	1912.5	2369.8	2985.4	3707.9	4408.8	5005.7	*5354.3*	5312.1
55°	1437.4	1460.8	1617.3	1931.2	2438.2	3124.1	3868.1	4581.2	5209.0	*5536.0*	5520.1
57.5°	*1418.7*	*1440.2*	*1606.1*	*1945.3*	*2480.4*	*3162.5*	*3997.4*	*4732.1*	*5299.0*	*5656.9*	*5640.1*
60°	1390.6	1410.2	1575.2	1922.8	2414.8	3153.1	3951.5	4745.2	5297.1	*5628.8*	5619.4
62.5°	1346.5	1369.0	1521.8	1858.2	2369.8	3057.6	3878.4	4704.0	5219.3	*5642.9*	5629.8
65°	1278.1	1293.1	1461.8	1761.6	2292.0	2949.8	3748.2	4508.1	5158.4	*5362.7*	5381.4
67.5°	1197.5	1209.7	1355.9	1653.9	2147.7	2811.1	3610.4	4382.5	4857.6	*5250.2*	5251.2
70°	1108.5	1120.7	1248.1	1537.7	1975.3	2620.0	3344.3	4050.8	4663.7	*4828.6*	4834.2
72.5°	980.1	997.0	1131.9	1381.2	1797.2	2367.9	3072.6	3734.1	4224.2	*4466.9*	4460.3
75°	861.1	874.3	981.1	1210.7	1588.3	2095.2	2756.8	3357.4	3766.0	*3882.2*	3909.3
77.5°	725.3	739.3	836.8	1012.9	1341.8	1805.7	2335.1	2855.2	3202.8	*3304.9*	3351.8
80°	583.8	584.7	660.6	824.6	1076.7	1451.5	1883.5	2342.6	2567.5	*2701.5*	2710.9
82.5°	426.4	444.2	494.8	616.6	807.7	1085.1	1451.5	1783.2	1977.2	*1979.0*	1986.5
85°	282.0	290.5	326.1	399.2	532.2	736.5	959.5	1151.6	1265.0	*1265.9*	1265.9
87.5°	138.7	144.3	162.1	192.1	253.0	358.9	445.1	543.5	580.0	*477.0*	485.4
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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CATALOG NUMBER: EMM2-HSN-VA7-735-U-RW

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9
2.5°	1198.5	1197.5	1196.6	1193.8	1191.0	1188.2	1185.4	1183.5	1181.6	1180.7	1181.6
5°	1189.1	1188.2	1184.4	1180.7	1177.9	1175.1	1172.2	1170.4	1169.4	1169.4	1169.4
7.5°	1188.2	1188.2	1187.2	1185.4	1183.5	1178.8	1171.3	1165.7	1161.9	1161.0	1160.1
10°	1204.1	1203.2	1206.0	1200.4	1193.8	1187.2	1175.1	1164.7	1156.3	1151.6	1150.7
12.5°	1253.8	1253.8	1255.6	1243.5	1227.5	1210.7	1191.0	1173.2	1160.1	1151.6	1150.7
15°	1340.0	1339.0	1331.5	1309.0	1279.1	1245.3	1214.4	1181.6	1158.2	1146.9	1146.0
17.5°	1440.2	1448.7	1439.3	1398.1	1349.3	1292.2	1239.7	1196.6	1165.7	1150.7	1148.8
20°	1597.7	1592.0	1568.6	1511.4	1442.1	1360.6	1288.4	1223.8	1182.5	1159.1	1156.3
22.5°	1780.4	1777.6	1739.2	1660.4	1559.2	1449.6	1347.5	1259.4	1201.3	1170.4	1167.6
25°	1982.8	1971.5	1918.1	1825.4	1697.9	1551.7	1416.8	1301.6	1222.8	1181.6	1175.1
27.5°	2212.4	2213.3	2145.8	2009.0	1851.6	1654.8	1496.5	1341.8	1245.3	1197.5	1188.2
30°	2446.6	2432.6	2363.2	2204.9	1996.8	1786.9	1566.7	1394.3	1282.8	1220.0	1212.5
32.5°	2714.6	2700.6	2575.9	2396.0	2154.3	1902.2	1644.5	1451.5	1304.4	1237.8	1229.4
35°	2967.6	2947.9	2841.1	2628.4	2330.4	2020.3	1742.0	1501.1	1352.2	1278.1	1265.9
37.5°	3272.2	3241.2	3083.8	2843.0	2524.4	2162.7	1824.4	1567.7	1391.5	1295.0	1280.9
40°	3546.7	3528.0	3347.1	3075.4	2694.9	2290.1	1909.7	1627.6	1411.2	1313.7	1302.5
42.5°	3873.7	3828.8	3637.6	3319.0	2888.9	2433.5	2028.7	1669.8	1463.7	1366.2	1348.4
45°	4288.8	4224.2	3985.2	3615.1	3079.1	2569.4	2125.2	1746.6	1508.6	1377.5	1356.8
47.5°	4647.7	4562.5	4336.6	3895.3	3324.6	2717.4	2175.8	1808.5	1517.1	1406.5	1386.8
50°	4965.4	4883.9	4633.7	4143.6	3501.7	2852.4	2272.3	1819.7	1559.2	1422.4	1397.1
52.5°	5331.8	5257.7	4971.0	4391.9	3656.3	2946.1	2326.7	1852.5	1552.7	1406.5	1386.8
55°	5537.0	5425.5	5130.3	4515.6	3693.8	2919.8	2319.2	1839.4	1530.2	1379.3	1358.7
57.5°	*5637.2*	*5523.9*	*5207.1*	*4536.2*	*3697.6*	*2928.3*	*2248.9*	*1794.4*	*1479.6*	*1337.2*	*1317.5*
60°	5604.5	5491.1	5186.5	4451.9	3640.4	2856.1	2194.6	1725.1	1419.6	1263.1	1242.5
62.5°	5596.0	5504.2	5145.3	4393.8	3557.0	2739.0	2108.3	1617.3	1323.1	1187.2	1169.4
65°	5352.4	5248.4	4914.8	4191.4	3394.9	2579.7	1957.5	1502.1	1224.7	1093.5	1077.6
67.5°	5238.1	5122.8	4664.6	4027.4	3189.7	2407.3	1757.9	1363.4	1106.6	975.5	955.8
70°	4801.4	4704.0	4386.3	3632.0	2878.6	2143.0	1614.5	1205.0	965.2	851.8	834.9
72.5°	4474.4	4353.5	3918.7	3325.6	2576.9	1885.3	1386.8	1030.7	819.0	720.6	700.9
75°	3879.4	3776.3	3456.7	2835.5	2182.4	1605.2	1141.3	832.1	665.3	574.4	571.6
77.5°	3294.6	3203.7	2813.0	2358.5	1781.3	1262.2	882.7	643.7	493.8	429.2	417.0
80°	2638.7	2526.3	2245.2	1805.7	1360.6	906.1	620.3	429.2	334.5	282.0	276.4
82.5°	1930.3	1851.6	1619.2	1241.6	867.7	575.3	372.0	235.2	174.3	147.1	147.1
85°	1232.2	1131.9	906.1	643.7	380.4	213.6	101.2	65.6	45.9	44.0	47.8
87.5°	419.8	306.4	128.4	27.2	7.5	2.8	0.9	0.9	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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-8

Test Date: 09/25/2024

Luminaire Tested: MEM2-HTN-VA-130-735-U-RW

Data in this report applies to families of products including MEM2-HTN-VA-130-735-U-RW

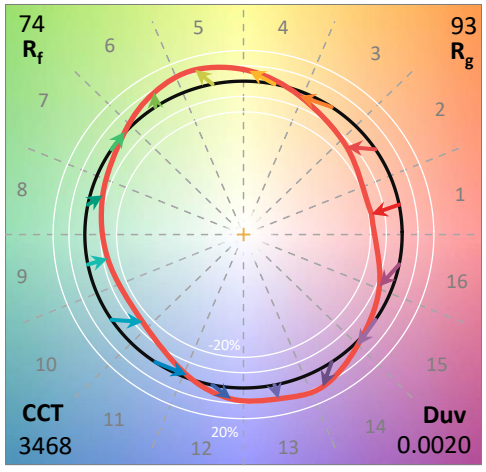
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/27/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-VA-130-735-U-RW**
Description:	EPIC MODERN VISUAL COMFORT 130W WAVESTREAM RECTANGULAR WIDE

Spectral Parameters

CCT (K):	3468	CRI (Ra):	70.6		
CIE u':	0.2356	R1:	66.2	R9:	-41.3
CIE v':	0.5145	R2:	79.1	R10:	52.2
Duv:	0.0020	R3:	90.8	R11:	63.6
CIE x:	0.4092	R4:	68.4	R12:	47.5
CIE y:	0.3972	R5:	66.3	R13:	68.3
CIE z:	0.1936	R6:	71.1	R14:	94.8
Peak Wavelength (nm):	590	R7:	78.4	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.5		
Purity:	42.03411				
Rf:	74.1				
Rg:	93.4				



Test Conditions

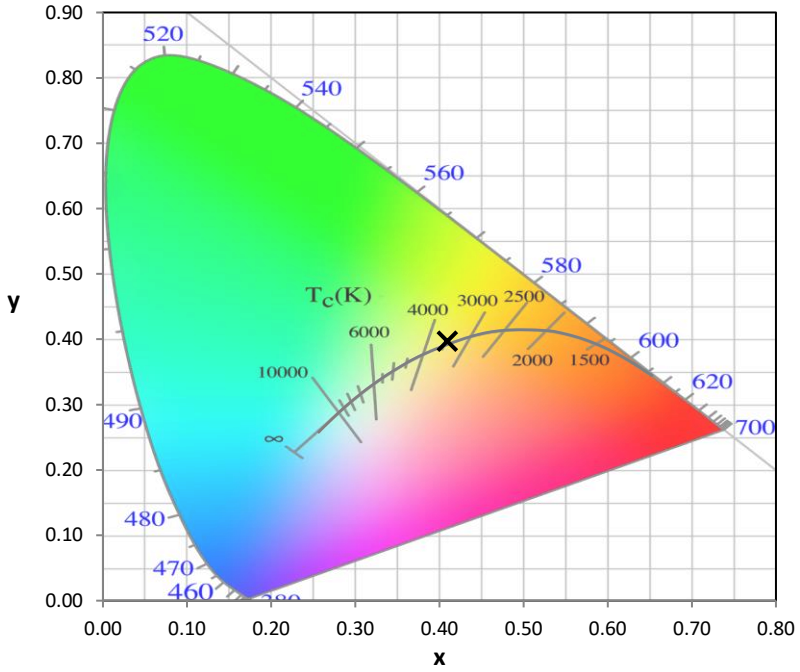
Stabilization Time:	46M
Operation Time:	1H 46M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-8

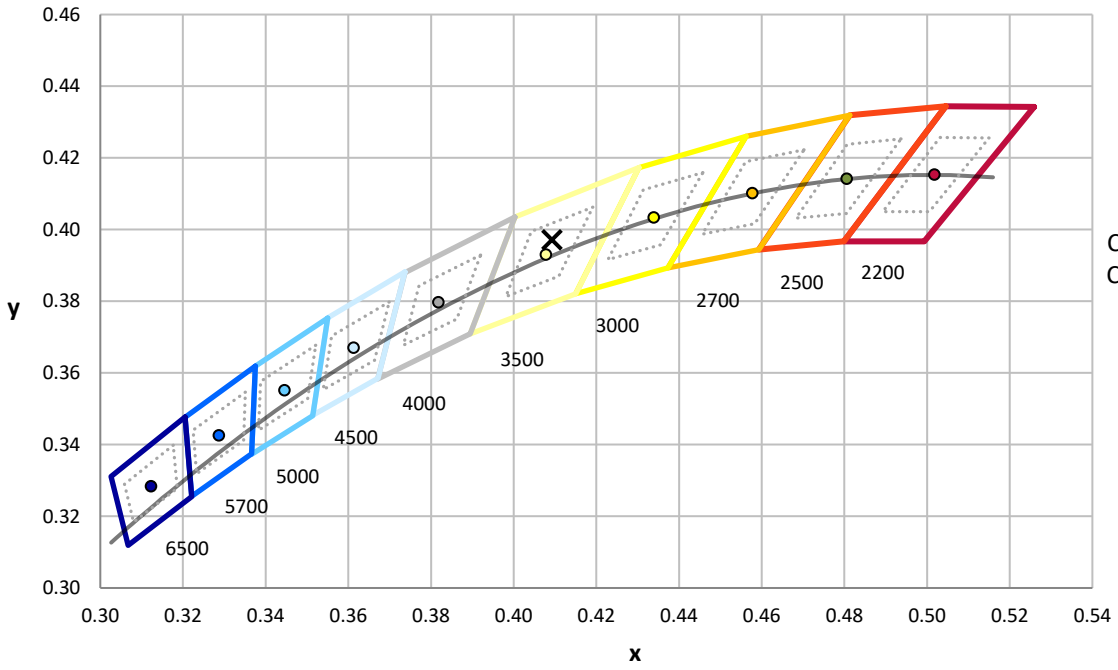
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-176-8

CIE 1931 Chromaticity Diagram



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

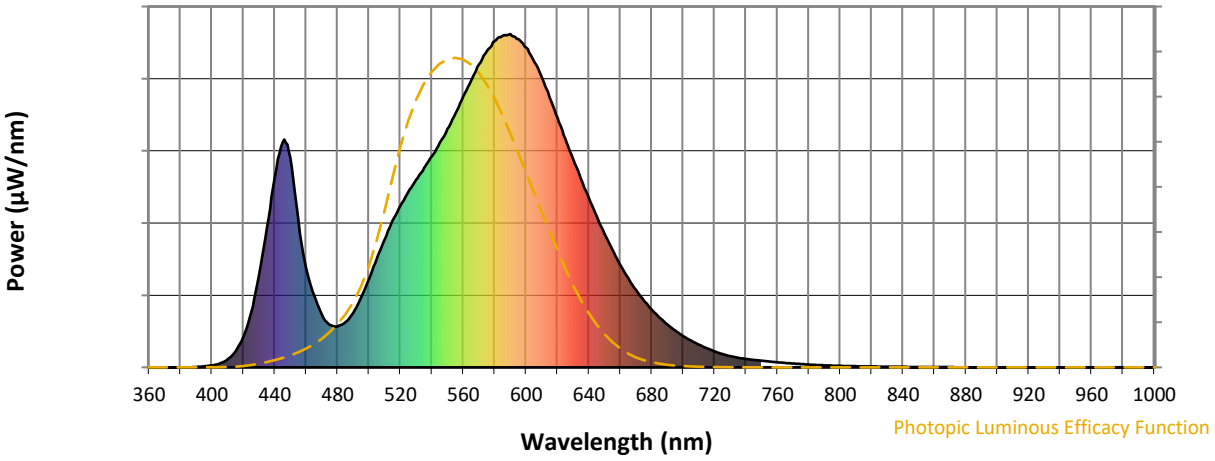


CCT = 3468K
CIE x = 0.4092
CIE y = 0.3972
Duv = 0.0020

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-8

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	164	NR	620	749	NR	750	20	NR	880	0	NR
365	0	NR	495	209	NR	625	686	NR	755	17	NR	885	0	NR
370	0	NR	500	265	NR	630	624	NR	760	15	NR	890	0	NR
375	0	NR	505	325	NR	635	566	NR	765	13	NR	895	0	NR
380	0	NR	510	384	NR	640	508	NR	770	11	NR	900	0	NR
385	0	NR	515	439	NR	645	452	NR	775	10	NR	905	0	NR
390	1	NR	520	485	NR	650	401	NR	780	8	NR	910	0	NR
395	3	NR	525	526	NR	655	353	NR	785	7	NR	915	0	NR
400	6	NR	530	562	NR	660	308	NR	790	6	NR	920	0	NR
405	11	NR	535	598	NR	665	268	NR	795	5	NR	925	0	NR
410	24	NR	540	633	NR	670	232	NR	800	5	NR	930	0	NR
415	48	NR	545	674	NR	675	200	NR	805	4	NR	935	0	NR
420	91	NR	550	715	NR	680	174	NR	810	3	NR	940	0	NR
425	166	NR	555	761	NR	685	149	NR	815	3	NR	945	0	NR
430	276	NR	560	812	NR	690	129	NR	820	3	NR	950	0	NR
435	420	NR	565	860	NR	695	110	NR	825	2	NR	955	0	NR
440	568	NR	570	908	NR	700	94	NR	830	2	NR	960	0	NR
445	675	NR	575	948	NR	705	80	NR	835	2	NR	965	0	NR
450	629	NR	580	978	NR	710	68	NR	840	2	NR	970	0	NR
455	443	NR	585	994	NR	715	58	NR	845	1	NR	975	0	NR
460	299	NR	590	1000	NR	720	48	NR	850	1	NR	980	0	NR
465	217	NR	595	985	NR	725	40	NR	855	1	NR	985	0	NR
470	157	NR	600	959	NR	730	34	NR	860	1	NR	990	0	NR
475	127	NR	605	918	NR	735	29	NR	865	1	NR	995	0	NR
480	123	NR	610	869	NR	740	25	NR	870	1	NR	1000	0	NR
485	135	NR	615	810	NR	745	22	NR	875	0	NR			

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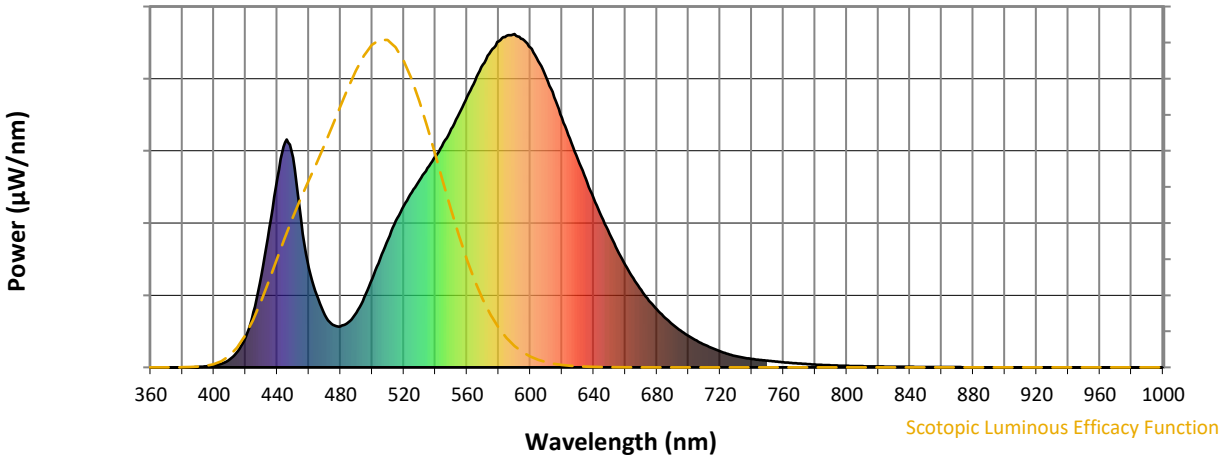
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.35**

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	164	NR	620	749	NR	750	20	NR	880	0	NR
365	0	NR	495	209	NR	625	686	NR	755	17	NR	885	0	NR
370	0	NR	500	265	NR	630	624	NR	760	15	NR	890	0	NR
375	0	NR	505	325	NR	635	566	NR	765	13	NR	895	0	NR
380	0	NR	510	384	NR	640	508	NR	770	11	NR	900	0	NR
385	0	NR	515	439	NR	645	452	NR	775	10	NR	905	0	NR
390	1	NR	520	485	NR	650	401	NR	780	8	NR	910	0	NR
395	3	NR	525	526	NR	655	353	NR	785	7	NR	915	0	NR
400	6	NR	530	562	NR	660	308	NR	790	6	NR	920	0	NR
405	11	NR	535	598	NR	665	268	NR	795	5	NR	925	0	NR
410	24	NR	540	633	NR	670	232	NR	800	5	NR	930	0	NR
415	48	NR	545	674	NR	675	200	NR	805	4	NR	935	0	NR
420	91	NR	550	715	NR	680	174	NR	810	3	NR	940	0	NR
425	166	NR	555	761	NR	685	149	NR	815	3	NR	945	0	NR
430	276	NR	560	812	NR	690	129	NR	820	3	NR	950	0	NR
435	420	NR	565	860	NR	695	110	NR	825	2	NR	955	0	NR
440	568	NR	570	908	NR	700	94	NR	830	2	NR	960	0	NR
445	675	NR	575	948	NR	705	80	NR	835	2	NR	965	0	NR
450	629	NR	580	978	NR	710	68	NR	840	2	NR	970	0	NR
455	443	NR	585	994	NR	715	58	NR	845	1	NR	975	0	NR
460	299	NR	590	1000	NR	720	48	NR	850	1	NR	980	0	NR
465	217	NR	595	985	NR	725	40	NR	855	1	NR	985	0	NR
470	157	NR	600	959	NR	730	34	NR	860	1	NR	990	0	NR
475	127	NR	605	918	NR	735	29	NR	865	1	NR	995	0	NR
480	123	NR	610	869	NR	740	25	NR	870	1	NR	1000	0	NR
485	135	NR	615	810	NR	745	22	NR	875	0	NR			

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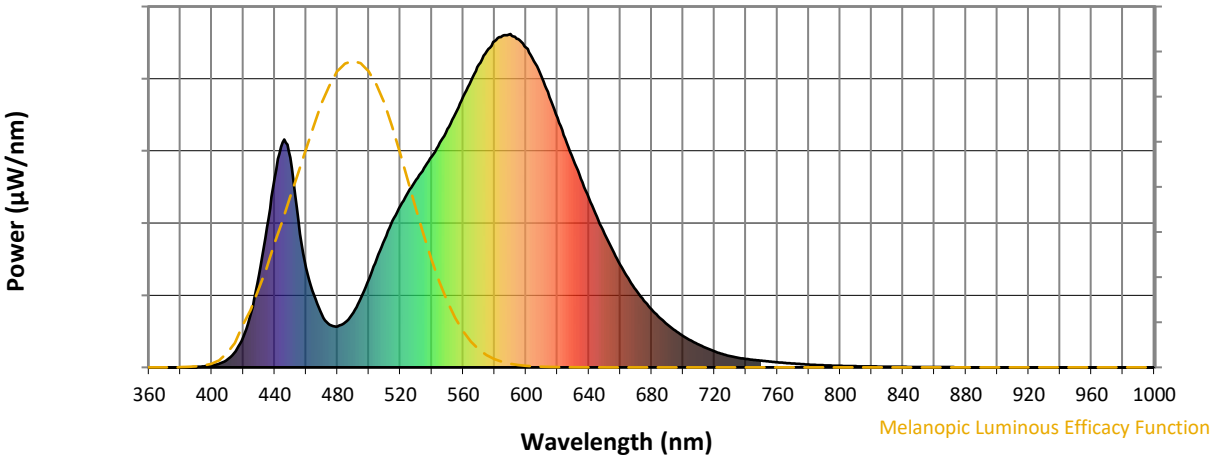
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.54**

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	164	NR	620	749	NR	750	20	NR	880	0	NR
365	0	NR	495	209	NR	625	686	NR	755	17	NR	885	0	NR
370	0	NR	500	265	NR	630	624	NR	760	15	NR	890	0	NR
375	0	NR	505	325	NR	635	566	NR	765	13	NR	895	0	NR
380	0	NR	510	384	NR	640	508	NR	770	11	NR	900	0	NR
385	0	NR	515	439	NR	645	452	NR	775	10	NR	905	0	NR
390	1	NR	520	485	NR	650	401	NR	780	8	NR	910	0	NR
395	3	NR	525	526	NR	655	353	NR	785	7	NR	915	0	NR
400	6	NR	530	562	NR	660	308	NR	790	6	NR	920	0	NR
405	11	NR	535	598	NR	665	268	NR	795	5	NR	925	0	NR
410	24	NR	540	633	NR	670	232	NR	800	5	NR	930	0	NR
415	48	NR	545	674	NR	675	200	NR	805	4	NR	935	0	NR
420	91	NR	550	715	NR	680	174	NR	810	3	NR	940	0	NR
425	166	NR	555	761	NR	685	149	NR	815	3	NR	945	0	NR
430	276	NR	560	812	NR	690	129	NR	820	3	NR	950	0	NR
435	420	NR	565	860	NR	695	110	NR	825	2	NR	955	0	NR
440	568	NR	570	908	NR	700	94	NR	830	2	NR	960	0	NR
445	675	NR	575	948	NR	705	80	NR	835	2	NR	965	0	NR
450	629	NR	580	978	NR	710	68	NR	840	2	NR	970	0	NR
455	443	NR	585	994	NR	715	58	NR	845	1	NR	975	0	NR
460	299	NR	590	1000	NR	720	48	NR	850	1	NR	980	0	NR
465	217	NR	595	985	NR	725	40	NR	855	1	NR	985	0	NR
470	157	NR	600	959	NR	730	34	NR	860	1	NR	990	0	NR
475	127	NR	605	918	NR	735	29	NR	865	1	NR	995	0	NR
480	123	NR	610	869	NR	740	25	NR	870	1	NR	1000	0	NR
485	135	NR	615	810	NR	745	22	NR	875	0	NR			

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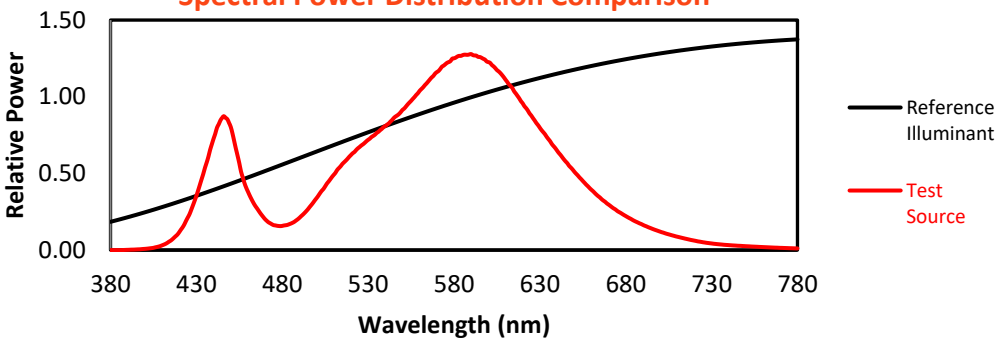
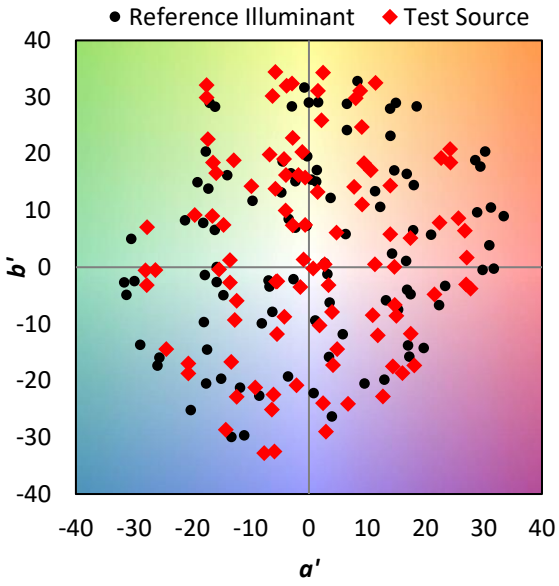
Summary

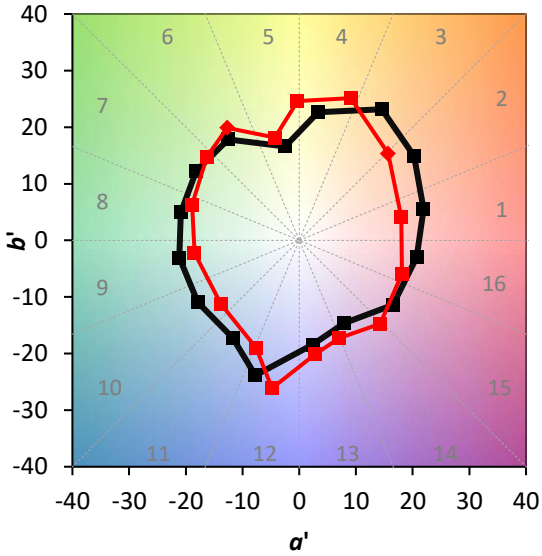
R_f = 74.1
R_g = 93.4
CIE R_a = 70.6
R_9 = -41.3

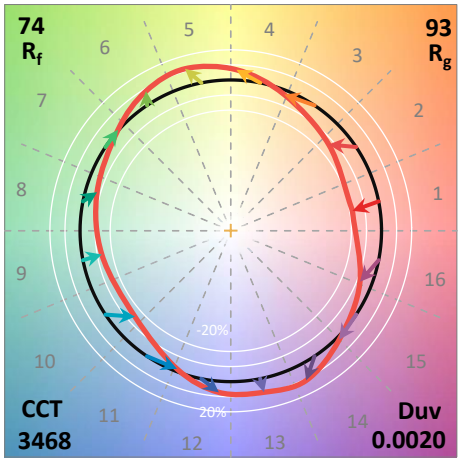
Spectral Power Distribution Comparison

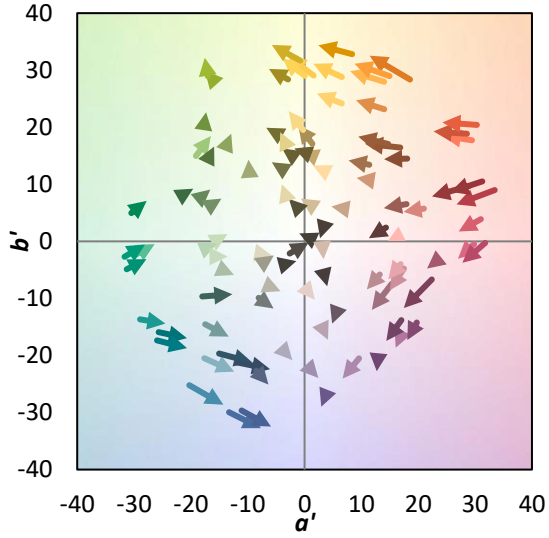


Color Vector Graphics









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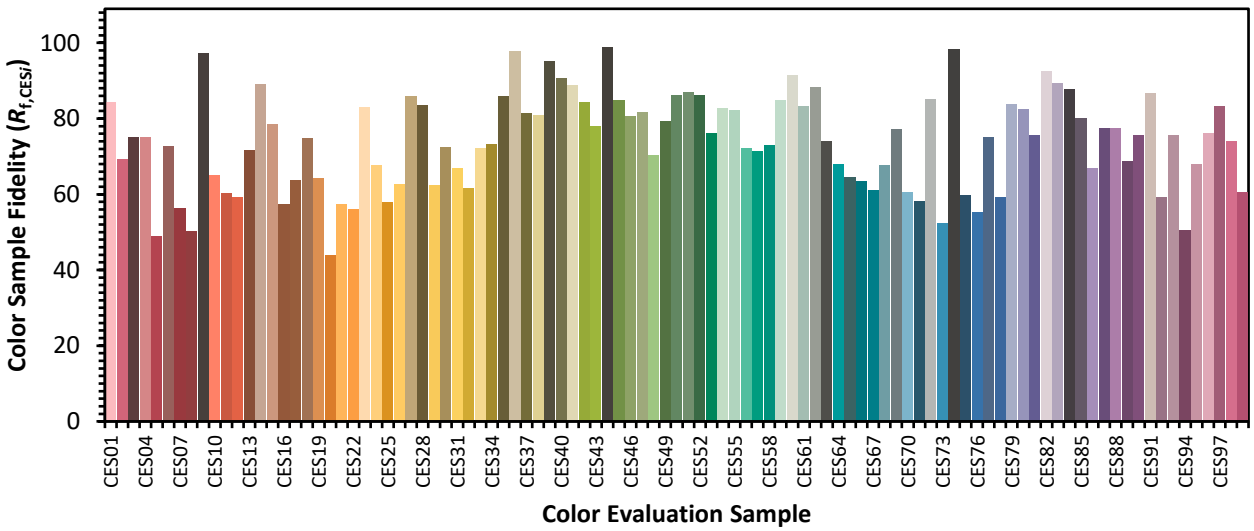
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 63	CES51 = 87	CES76 = 55
CES02 = 61	CES27 = 86	CES52 = 86	CES77 = 75
CES03 = 31	CES28 = 84	CES53 = 76	CES78 = 59
CES04 = 70	CES29 = 62	CES54 = 83	CES79 = 84
CES05 = 48	CES30 = 72	CES55 = 82	CES80 = 82
CES06 = 51	CES31 = 67	CES56 = 72	CES81 = 76
CES07 = 40	CES32 = 62	CES57 = 71	CES82 = 93
CES08 = 39	CES33 = 72	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 73	CES59 = 85	CES84 = 88
CES10 = 75	CES35 = 86	CES60 = 92	CES85 = 80
CES11 = 58	CES36 = 98	CES61 = 83	CES86 = 67
CES12 = 64	CES37 = 82	CES62 = 88	CES87 = 78
CES13 = 42	CES38 = 81	CES63 = 74	CES88 = 77
CES14 = 74	CES39 = 95	CES64 = 68	CES89 = 69
CES15 = 71	CES40 = 91	CES65 = 64	CES90 = 76
CES16 = 47	CES41 = 89	CES66 = 63	CES91 = 87
CES17 = 50	CES42 = 84	CES67 = 61	CES92 = 59
CES18 = 56	CES43 = 78	CES68 = 68	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 77	CES94 = 50
CES20 = 65	CES45 = 85	CES70 = 61	CES95 = 68
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 82	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 70	CES73 = 52	CES98 = 74
CES24 = 91	CES49 = 79	CES74 = 98	CES99 = 61
CES25 = 72	CES50 = 86	CES75 = 60	



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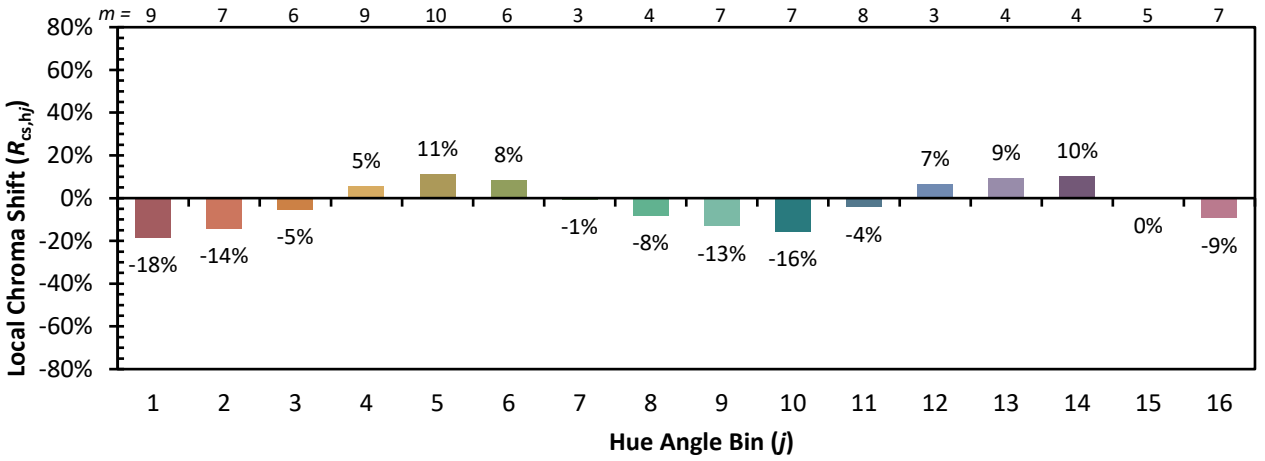
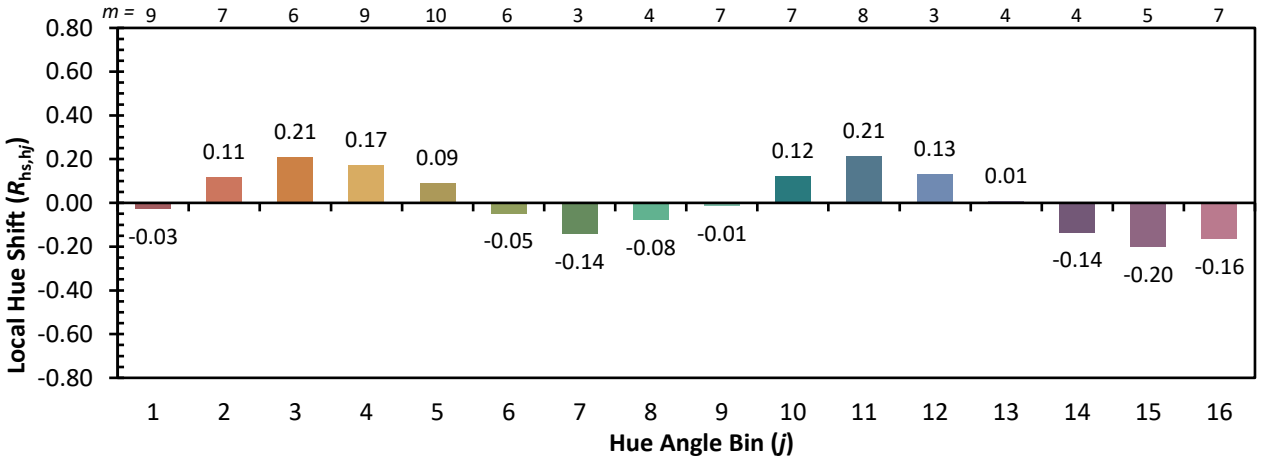
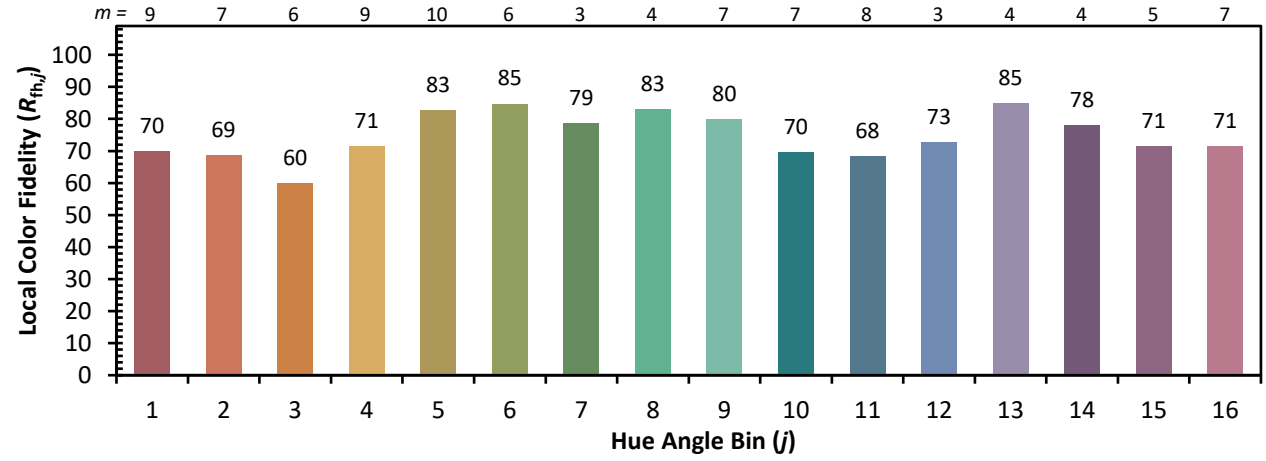
Color Rendition by Hue-Angle Bin







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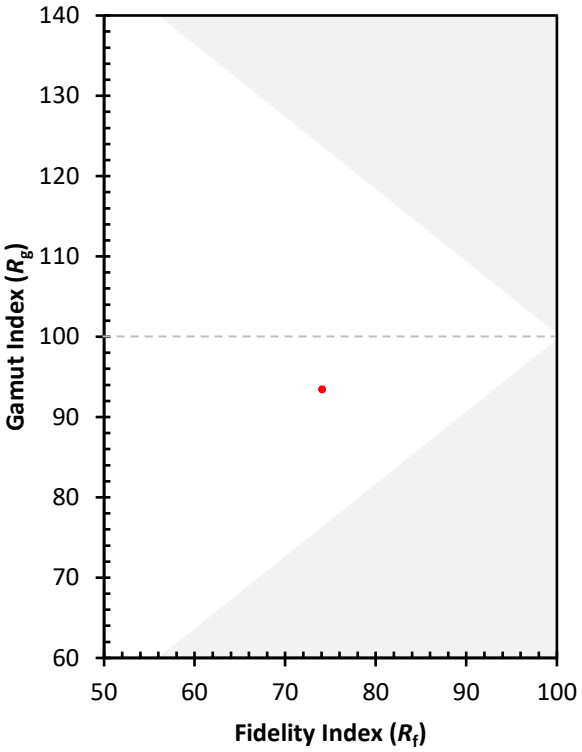
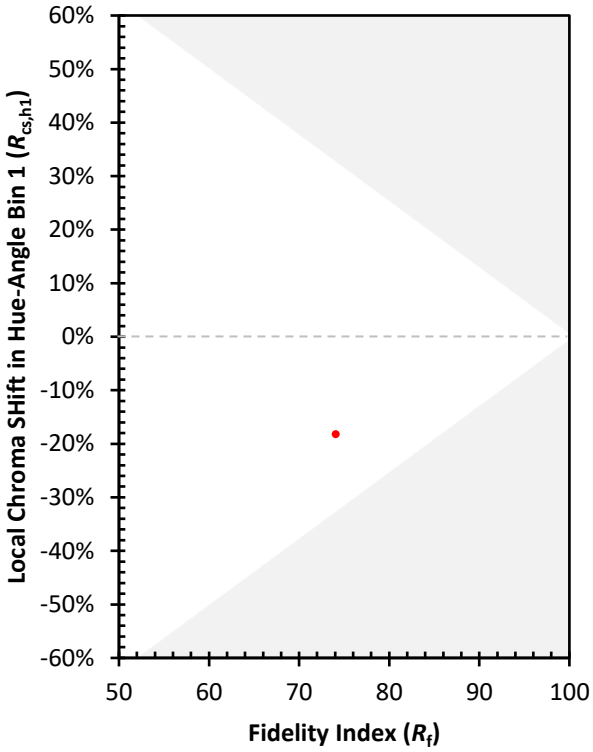
Measure Comparisons





(END OF REPORT)