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: P868971

Luminaire Tested: **EMM2-HSN-SA1B-722-U-T3-HSS**

Issue Date: 08/22/2024

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:	P868971
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA1B-722-U-T3-HSS
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 60W 70CRI 2200K FIXTURE w/ TYPE III DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source:	(10) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3759.3 lumens
Efficiency:	N/A
Efficacy:	85.4 lumens/watt
Luminous Opening:	Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	44
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.91%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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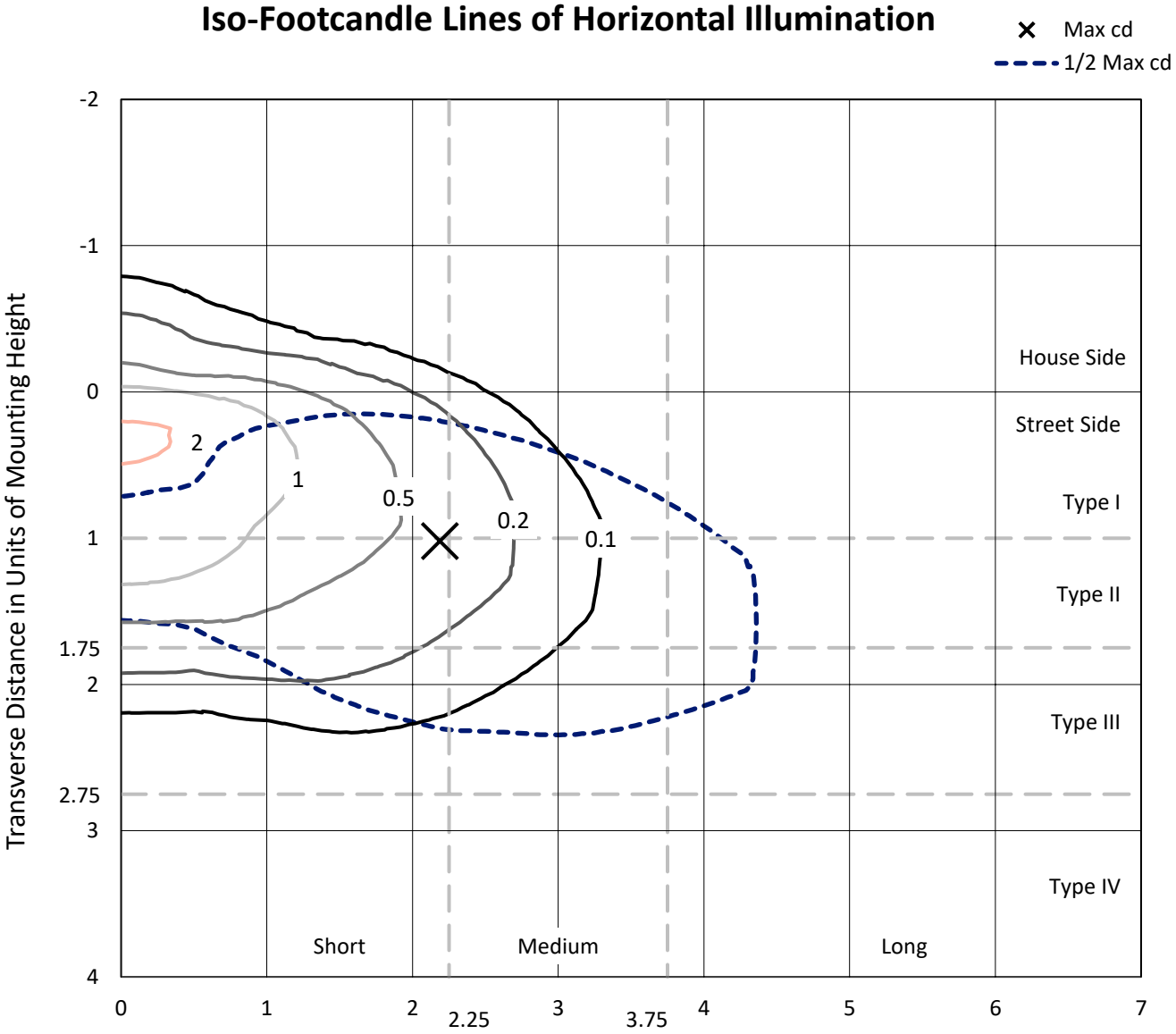
REPORT NUMBER: P868971
CATALOG NUMBER: EMM2-HSN-SA1B-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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REPORT NUMBER: P868971
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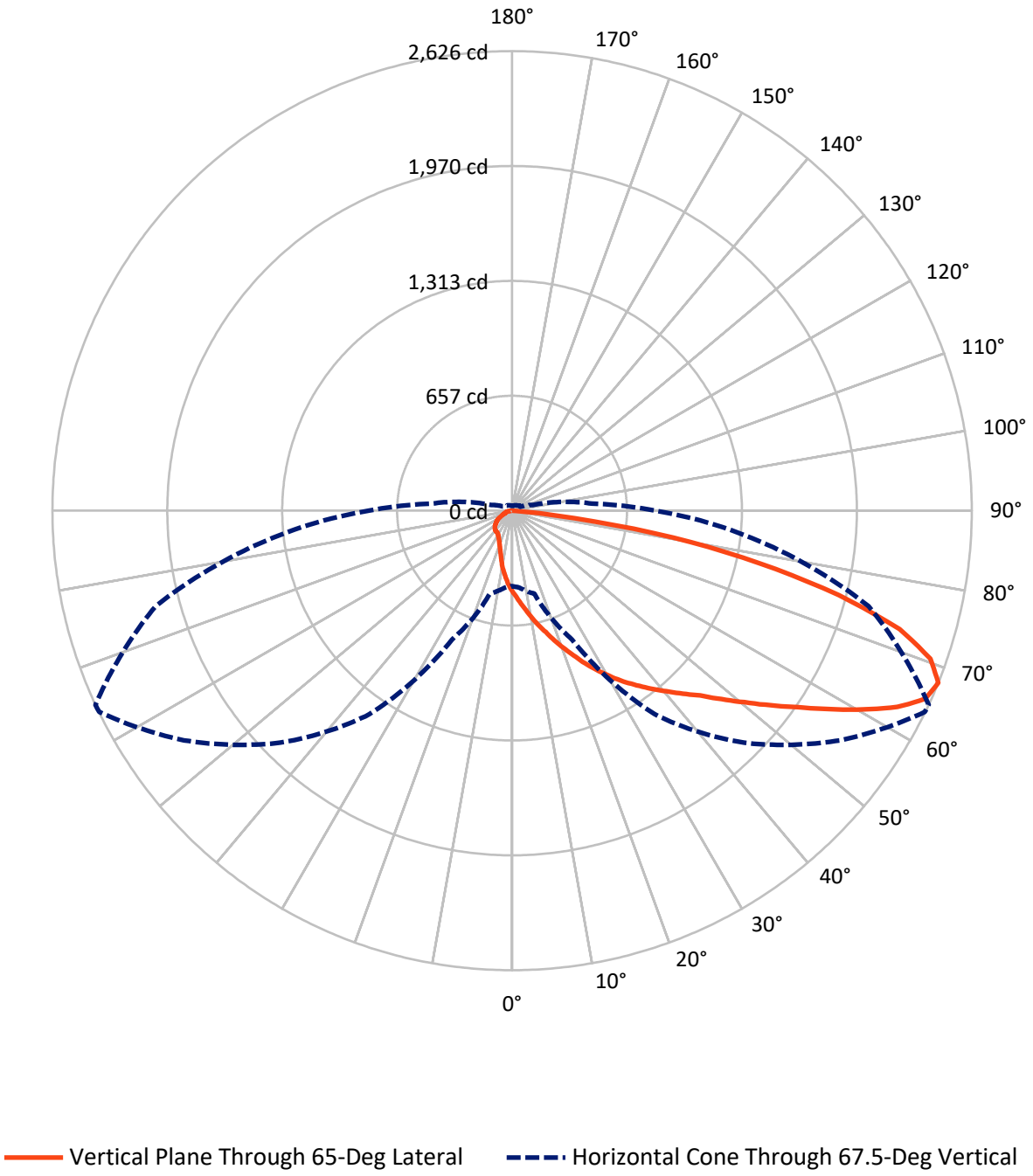
Luminous Intensity Polar Plot



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REPORT NUMBER: P868971
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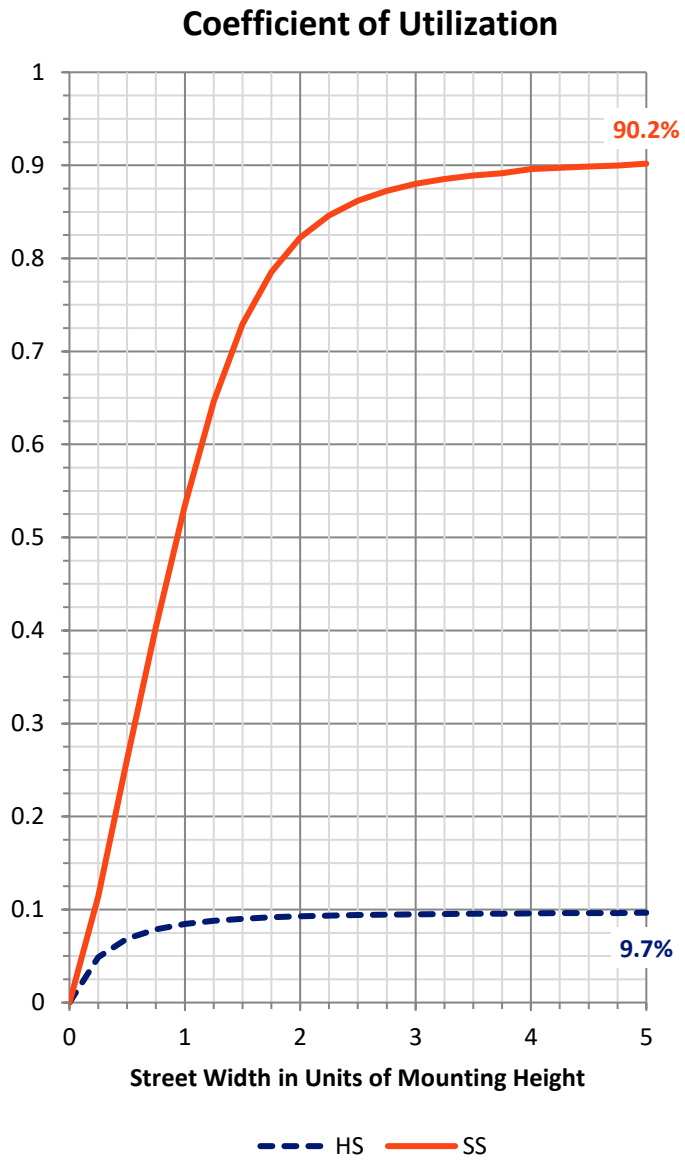
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	365.9	0.0	365.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3393.4	0.0	3393.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	3759.3	0.0	3759.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.2
10°-20°	150.9	4.0
20°-30°	274.5	7.3
30°-40°	424.9	11.3
40°-50°	642.3	17.1
50°-60°	835.6	22.2
60°-70°	824.3	21.9
70°-80°	501.8	13.3
80°-90°	59.6	1.6
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°	3759.3	100.0
0°-180°	3759.3	100.0



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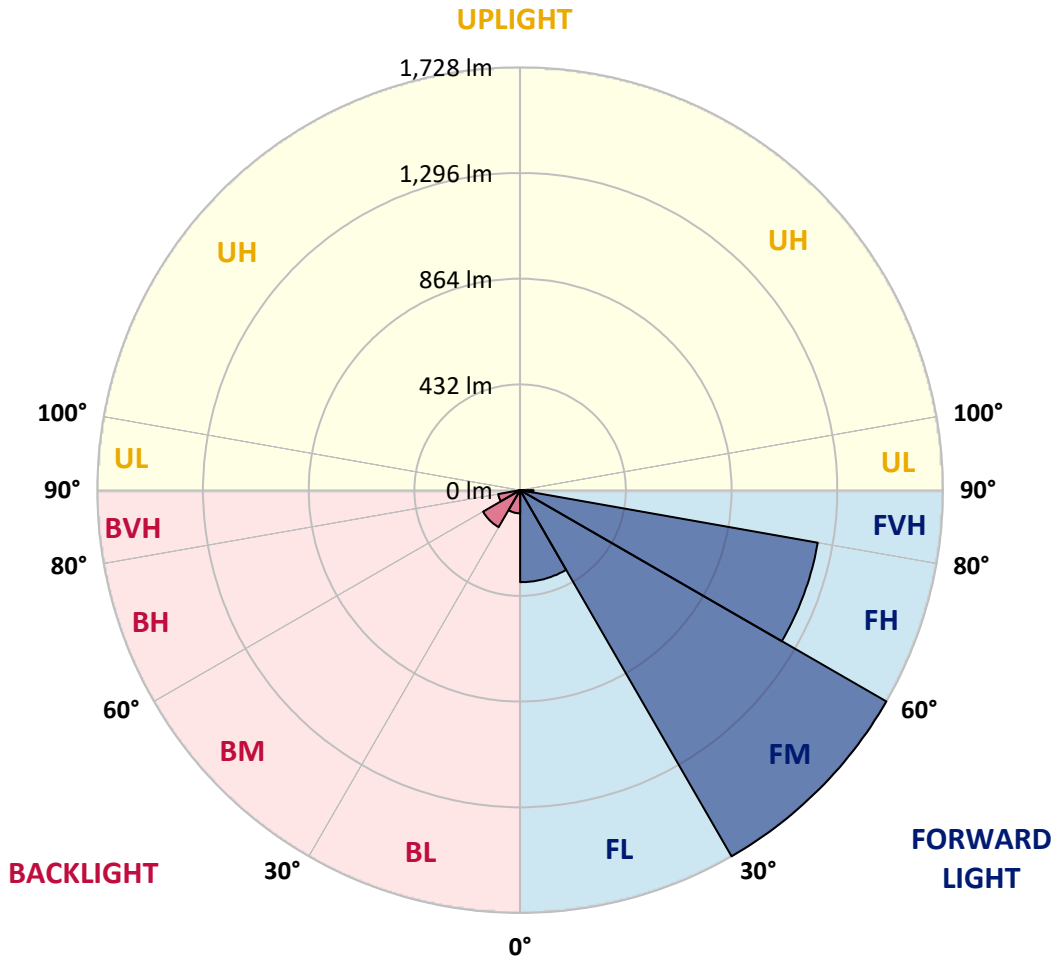
REPORT NUMBER: P868971
CATALOG NUMBER: EMM2-HSN-SA1B-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	376.2	10.0			
FM	(30°-60°)	1727.8	46.0			
FH	(60°-80°)	1235.0	32.9			G1/1800
FVH	(80°-90°)	54.5	1.5			G1/100
BL	(0°-30°)	94.7	2.5	B0/110		
BM	(30°-60°)	175.0	4.7	B0/220		
BH	(60°-80°)	91.1	2.4	B0/110		G0/110
BVH	(80°-90°)	5.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Short



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REPORT NUMBER: P868971
CATALOG NUMBER: EMM2-HSN-SA1B-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	*464.5*	464.5	464.5
2.5°	542.8	538.6	541.8	534.3	525.7	519.2	506.4	495.6	*494.6*	483.8	472.0
5°	646.9	633.0	634.0	619.0	600.8	581.5	561.1	534.3	*534.3*	508.5	481.7
7.5°	740.2	738.1	728.4	704.8	683.4	653.3	615.8	581.5	*574.0*	534.3	492.4
10°	830.4	827.1	818.6	800.3	763.8	730.6	683.4	631.9	*622.2*	565.4	505.3
12.5°	902.2	903.3	893.7	878.6	846.5	806.8	744.5	680.2	*671.6*	595.4	518.2
15°	965.5	964.5	962.3	949.4	918.3	881.9	808.9	733.8	*719.9*	627.6	531.0
17.5°	1013.8	1011.7	1007.4	996.6	981.6	946.2	876.5	790.7	*778.9*	665.1	546.1
20°	1027.8	1026.7	1026.7	1034.2	1027.8	1006.3	944.1	849.7	*836.8*	704.8	566.4
22.5°	1053.5	1052.4	1051.4	1058.9	1063.2	1061.0	1007.4	909.7	*897.9*	751.0	592.2
25°	1086.8	1084.6	1081.4	1088.9	1094.3	1107.1	1070.7	980.6	*966.6*	804.6	617.9
27.5°	1130.7	1132.9	1128.6	1127.5	1127.5	1135.0	1126.5	1043.8	*1031.0*	856.1	648.0
30°	1188.7	1191.9	1184.4	1179.0	1169.4	1168.3	1170.4	1114.7	*1096.4*	911.9	679.1
32.5°	1245.5	1248.8	1244.5	1237.0	1212.3	1202.6	1211.2	1174.7	*1162.9*	973.0	718.8
35°	1291.7	1299.2	1299.2	1284.2	1249.8	1244.5	1258.4	1233.7	*1225.2*	1044.9	766.0
37.5°	1353.9	1358.2	1353.9	1326.0	1283.1	1289.5	1311.0	1296.0	*1290.6*	1122.2	821.8
40°	1486.9	1492.3	1464.4	1397.9	1329.2	1336.7	1374.3	1365.7	*1357.1*	1198.3	873.3
42.5°	1672.5	1659.6	1654.3	1506.2	1400.0	1395.7	1442.9	1431.1	*1430.1*	1275.6	920.5
45°	1794.8	1799.1	1772.3	1631.8	1549.1	1468.7	1519.1	1514.8	*1506.2*	1353.9	977.3
47.5°	1879.6	1869.9	1803.4	1735.8	1751.9	1564.2	1603.9	1614.6	*1609.2*	1442.9	1047.1
50°	1915.0	1905.3	1861.3	1816.3	1835.6	1673.6	1690.8	1726.2	*1720.8*	1533.1	1106.1
52.5°	1871.0	1859.2	1862.4	1874.2	1864.6	1759.4	1798.0	1853.8	*1847.4*	1638.2	1174.7
55°	1591.0	1622.1	1742.3	1862.4	1859.2	1824.9	1912.8	1994.4	*1981.5*	1747.6	1233.7
57.5°	1283.1	1300.3	1452.6	1777.7	1842.0	1879.6	2043.7	2144.6	*2140.3*	1857.0	1287.4
60°	1020.2	1038.5	1154.3	1601.7	1802.3	1936.4	2177.8	2310.8	*2306.6*	1967.5	1326.0
62.5°	811.0	811.0	914.0	1348.5	1726.2	1969.7	2284.0	2478.2	*2470.7*	2056.6	1335.7
65°	583.6	591.1	668.4	1084.6	1602.8	1961.1	2335.5	2597.3	*2593.0*	2107.0	1315.3
67.5°	*431.3*	*439.9*	*491.3*	*813.2*	*1420.4*	*1875.3*	*2288.3*	*2624.1*	*2626.3*	*2108.1*	*1248.8*
70°	336.9	339.0	377.6	565.4	1164.0	1684.3	2111.3	2535.1	*2535.1*	2055.5	1150.1
72.5°	256.4	258.5	291.8	385.1	857.2	1392.5	1846.3	2299.0	*2315.1*	1916.0	1004.2
75°	198.5	202.8	225.3	276.8	537.5	990.2	1517.0	1882.8	*1926.8*	1645.7	827.1
77.5°	153.4	157.7	175.9	202.8	313.3	610.4	1066.4	1407.5	*1447.2*	1296.0	638.3
80°	123.4	125.5	137.3	152.3	189.9	314.3	651.2	924.8	*936.6*	880.8	422.7
82.5°	56.9	61.2	74.0	83.7	94.4	145.9	277.9	342.2	*357.2*	349.7	173.8
85°	6.4	6.4	7.5	8.6	9.7	15.0	19.3	17.2	*17.2*	20.4	18.2
87.5°	0.0	0.0	0.0	1.1	2.1	2.1	3.2	3.2	*3.2*	3.2	3.2
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: P868971
CATALOG NUMBER: EMM2-HSN-SA1B-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5
2.5°	465.6	458.1	444.1	432.3	421.6	410.9	405.5	392.7	389.4	391.6	384.1
5°	467.7	452.7	423.8	396.9	374.4	353.0	334.7	315.4	311.1	304.7	301.5
7.5°	471.0	448.4	403.4	361.5	327.2	296.1	273.6	258.5	246.7	243.5	242.5
10°	475.3	443.1	380.8	328.3	281.1	248.9	228.5	217.8	213.5	210.3	211.3
12.5°	478.5	437.7	359.4	290.7	244.6	215.6	206.0	197.4	195.3	194.2	194.2
15°	482.8	432.3	333.6	257.5	213.5	196.3	186.7	183.5	183.5	182.4	182.4
17.5°	488.1	428.1	312.2	231.7	195.3	179.2	174.9	170.6	170.6	170.6	169.5
20°	498.9	425.9	292.9	210.3	179.2	168.4	162.0	158.8	157.7	156.6	156.6
22.5°	509.6	425.9	271.4	194.2	168.4	156.6	150.2	147.0	145.9	145.9	145.9
25°	524.6	424.8	254.3	180.2	158.8	144.8	138.4	135.2	133.0	133.0	132.0
27.5°	541.8	424.8	239.2	169.5	148.0	134.1	126.6	123.4	120.2	120.2	119.1
30°	558.9	427.0	226.4	160.9	137.3	124.4	114.8	110.5	108.4	107.3	107.3
32.5°	581.5	433.4	217.8	154.5	127.7	114.8	105.1	100.8	98.7	97.6	97.6
35°	615.8	449.5	218.9	151.3	121.2	106.2	96.6	91.2	90.1	90.1	89.0
37.5°	652.3	464.5	222.1	149.1	114.8	99.8	90.1	84.8	83.7	83.7	83.7
40°	683.4	477.4	226.4	148.0	109.4	93.3	84.8	80.5	78.3	78.3	78.3
42.5°	714.5	484.9	227.4	144.8	106.2	88.0	80.5	76.2	74.0	75.1	75.1
45°	745.6	490.3	224.2	140.5	103.0	83.7	76.2	71.9	69.7	69.7	69.7
47.5°	783.2	502.1	218.9	134.1	100.8	80.5	71.9	67.6	66.5	66.5	66.5
50°	820.7	511.7	214.6	126.6	95.5	76.2	68.7	63.3	62.2	62.2	62.2
52.5°	851.8	516.0	209.2	116.9	90.1	71.9	64.4	59.0	56.9	56.9	56.9
55°	875.4	517.1	201.7	109.4	82.6	67.6	60.1	54.7	52.6	51.5	51.5
57.5°	894.7	516.0	194.2	101.9	76.2	62.2	54.7	50.4	47.2	46.1	46.1
60°	905.5	512.8	183.5	92.3	67.6	56.9	50.4	45.1	42.9	41.8	41.8
62.5°	899.0	504.2	168.4	77.2	61.2	51.5	46.1	41.8	38.6	37.5	37.5
65°	869.0	487.1	149.1	63.3	54.7	46.1	41.8	37.5	33.3	32.2	32.2
67.5°	*816.4*	*458.1*	*123.4*	*53.6*	*50.4*	*41.8*	*37.5*	*33.3*	*30.0*	*27.9*	*27.9*
70°	743.5	419.5	96.6	46.1	45.1	38.6	34.3	30.0	26.8	24.7	24.7
72.5°	639.4	356.2	71.9	39.7	39.7	35.4	31.1	27.9	24.7	22.5	22.5
75°	517.1	269.3	54.7	36.5	35.4	32.2	27.9	24.7	22.5	20.4	20.4
77.5°	377.6	179.2	45.1	33.3	33.3	29.0	25.7	22.5	20.4	19.3	19.3
80°	229.6	103.0	32.2	25.7	25.7	24.7	21.5	19.3	18.2	16.1	15.0
82.5°	93.3	39.7	17.2	12.9	12.9	11.8	7.5	6.4	6.4	6.4	5.4
85°	9.7	6.4	4.3	3.2	3.2	3.2	2.1	2.1	2.1	2.1	2.1
87.5°	3.2	3.2	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1
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: SP1-2407-157-2

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-722-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-722-U-5WQ-2

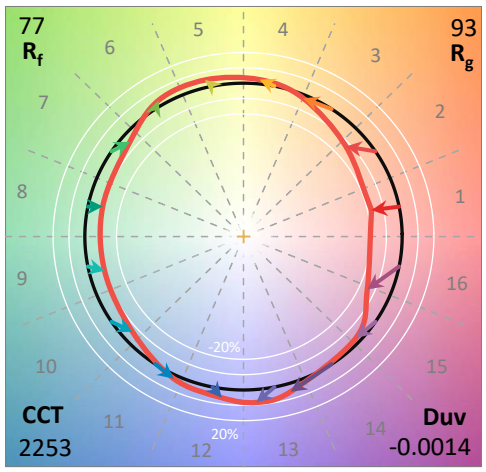
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-40-722-U-5WQ-2**
Description:	Epic Modern Light Square 40W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	2253	CRI (Ra):	70.6		
CIE u':	0.2868	R1:	68.4	R9:	-36.0
CIE v':	0.5332	R2:	88.7	R10:	78.2
Duv:	-0.0014	R3:	85.4	R11:	61.0
CIE x:	0.4974	R4:	63.5	R12:	74.2
CIE y:	0.4110	R5:	69.0	R13:	72.8
CIE z:	0.0915	R6:	88.9	R14:	92.2
Peak Wavelength (nm):	603	R7:	68.5	R15:	58.0
Dominant Wavelength (nm):	587	R8:	32.0		
Purity:	72.69432				
Rf:	76.9				
Rg:	92.7				



Test Conditions

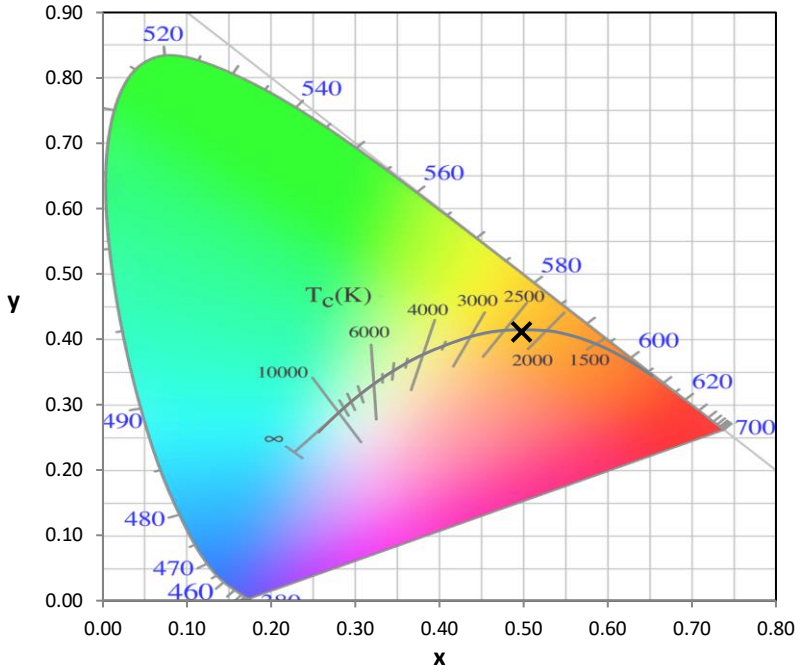
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	24.1

REPORT NUMBER: SP1-2407-157-2

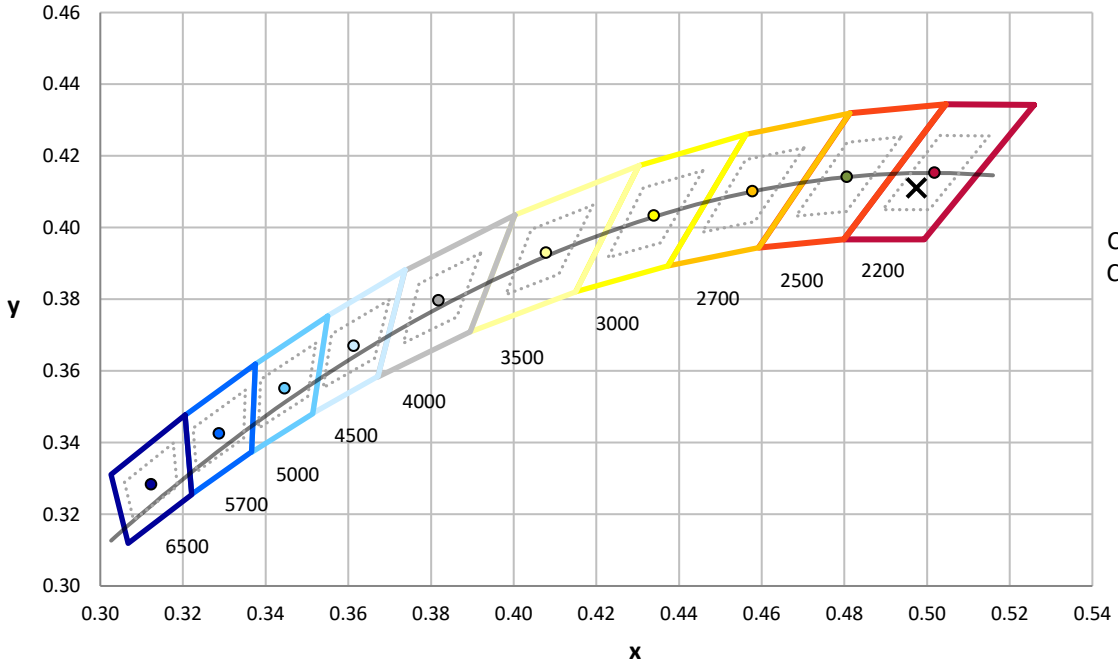
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-2

CIE 1931 Chromaticity Diagram



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

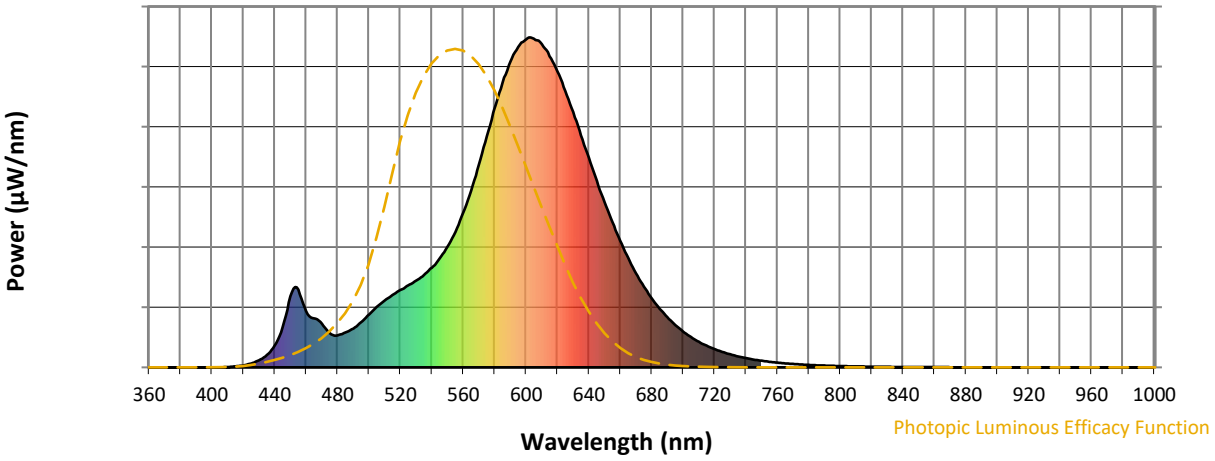


CCT = 2253K
CIE x = 0.4974
CIE y = 0.4110
Duv = -0.0014

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-2

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	117	NR	620	896	NR	750	20	NR	880	0	NR
365	0	NR	495	137	NR	625	838	NR	755	17	NR	885	0	NR
370	0	NR	500	160	NR	630	774	NR	760	14	NR	890	0	NR
375	0	NR	505	183	NR	635	704	NR	765	12	NR	895	0	NR
380	0	NR	510	202	NR	640	635	NR	770	10	NR	900	0	NR
385	0	NR	515	219	NR	645	565	NR	775	9	NR	905	0	NR
390	0	NR	520	235	NR	650	501	NR	780	7	NR	910	0	NR
395	0	NR	525	249	NR	655	440	NR	785	6	NR	915	0	NR
400	0	NR	530	263	NR	660	383	NR	790	5	NR	920	0	NR
405	0	NR	535	281	NR	665	332	NR	795	5	NR	925	0	NR
410	1	NR	540	302	NR	670	286	NR	800	4	NR	930	0	NR
415	3	NR	545	331	NR	675	245	NR	805	3	NR	935	0	NR
420	6	NR	550	366	NR	680	210	NR	810	3	NR	940	0	NR
425	12	NR	555	411	NR	685	178	NR	815	3	NR	945	0	NR
430	21	NR	560	469	NR	690	152	NR	820	2	NR	950	0	NR
435	38	NR	565	536	NR	695	129	NR	825	2	NR	955	0	NR
440	66	NR	570	614	NR	700	109	NR	830	2	NR	960	0	NR
445	122	NR	575	701	NR	705	92	NR	835	1	NR	965	0	NR
450	215	NR	580	785	NR	710	77	NR	840	1	NR	970	0	NR
455	236	NR	585	863	NR	715	66	NR	845	1	NR	975	0	NR
460	170	NR	590	928	NR	720	55	NR	850	1	NR	980	0	NR
465	148	NR	595	971	NR	725	47	NR	855	1	NR	985	0	NR
470	132	NR	600	994	NR	730	40	NR	860	1	NR	990	0	NR
475	104	NR	605	996	NR	735	33	NR	865	1	NR	995	0	NR
480	97	NR	610	979	NR	740	28	NR	870	1	NR	1000	0	NR
485	105	NR	615	943	NR	745	24	NR	875	0	NR			

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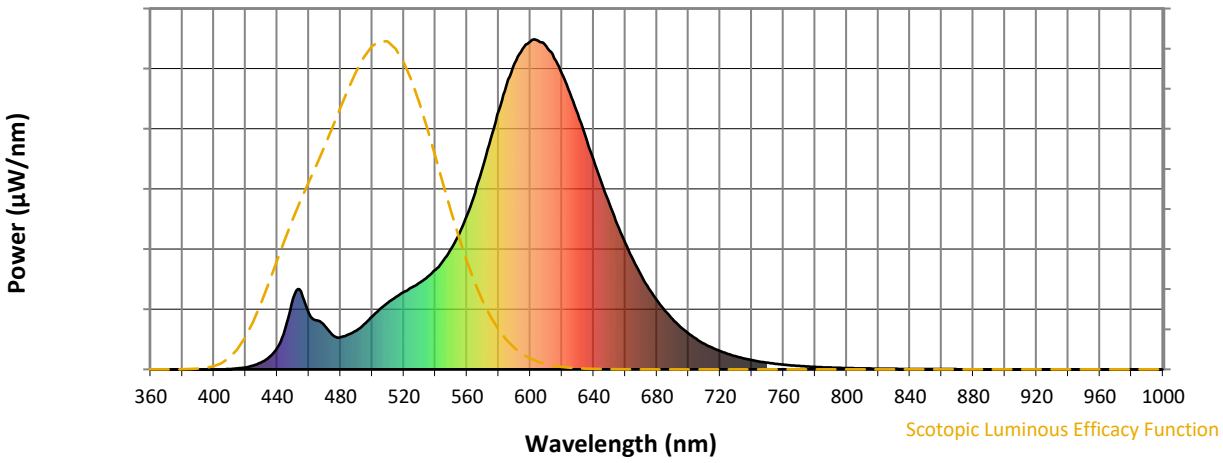
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.96**

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	117	NR	620	896	NR	750	20	NR	880	0	NR
365	0	NR	495	137	NR	625	838	NR	755	17	NR	885	0	NR
370	0	NR	500	160	NR	630	774	NR	760	14	NR	890	0	NR
375	0	NR	505	183	NR	635	704	NR	765	12	NR	895	0	NR
380	0	NR	510	202	NR	640	635	NR	770	10	NR	900	0	NR
385	0	NR	515	219	NR	645	565	NR	775	9	NR	905	0	NR
390	0	NR	520	235	NR	650	501	NR	780	7	NR	910	0	NR
395	0	NR	525	249	NR	655	440	NR	785	6	NR	915	0	NR
400	0	NR	530	263	NR	660	383	NR	790	5	NR	920	0	NR
405	0	NR	535	281	NR	665	332	NR	795	5	NR	925	0	NR
410	1	NR	540	302	NR	670	286	NR	800	4	NR	930	0	NR
415	3	NR	545	331	NR	675	245	NR	805	3	NR	935	0	NR
420	6	NR	550	366	NR	680	210	NR	810	3	NR	940	0	NR
425	12	NR	555	411	NR	685	178	NR	815	3	NR	945	0	NR
430	21	NR	560	469	NR	690	152	NR	820	2	NR	950	0	NR
435	38	NR	565	536	NR	695	129	NR	825	2	NR	955	0	NR
440	66	NR	570	614	NR	700	109	NR	830	2	NR	960	0	NR
445	122	NR	575	701	NR	705	92	NR	835	1	NR	965	0	NR
450	215	NR	580	785	NR	710	77	NR	840	1	NR	970	0	NR
455	236	NR	585	863	NR	715	66	NR	845	1	NR	975	0	NR
460	170	NR	590	928	NR	720	55	NR	850	1	NR	980	0	NR
465	148	NR	595	971	NR	725	47	NR	855	1	NR	985	0	NR
470	132	NR	600	994	NR	730	40	NR	860	1	NR	990	0	NR
475	104	NR	605	996	NR	735	33	NR	865	1	NR	995	0	NR
480	97	NR	610	979	NR	740	28	NR	870	1	NR	1000	0	NR
485	105	NR	615	943	NR	745	24	NR	875	0	NR			

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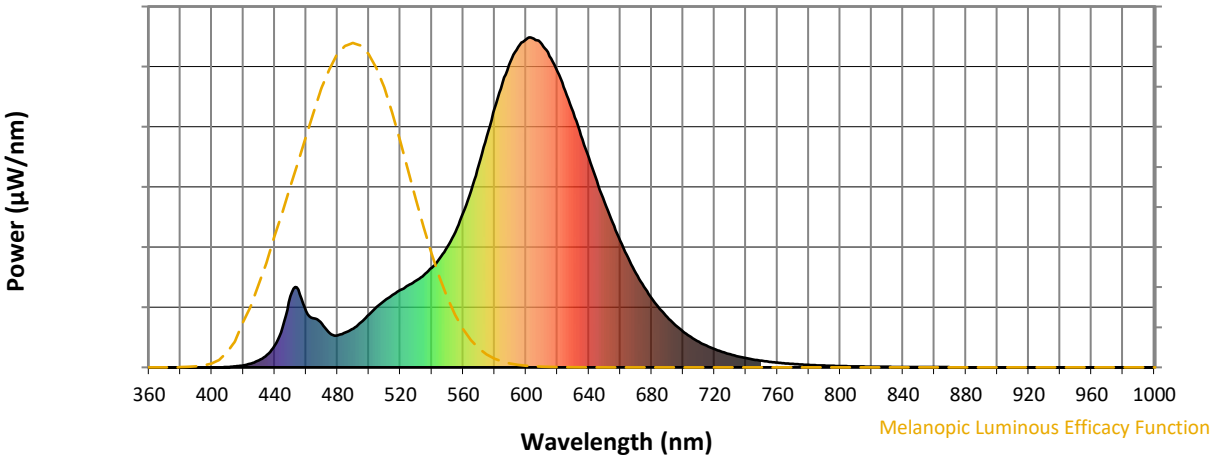
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.71**

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	117	NR	620	896	NR	750	20	NR	880	0	NR
365	0	NR	495	137	NR	625	838	NR	755	17	NR	885	0	NR
370	0	NR	500	160	NR	630	774	NR	760	14	NR	890	0	NR
375	0	NR	505	183	NR	635	704	NR	765	12	NR	895	0	NR
380	0	NR	510	202	NR	640	635	NR	770	10	NR	900	0	NR
385	0	NR	515	219	NR	645	565	NR	775	9	NR	905	0	NR
390	0	NR	520	235	NR	650	501	NR	780	7	NR	910	0	NR
395	0	NR	525	249	NR	655	440	NR	785	6	NR	915	0	NR
400	0	NR	530	263	NR	660	383	NR	790	5	NR	920	0	NR
405	0	NR	535	281	NR	665	332	NR	795	5	NR	925	0	NR
410	1	NR	540	302	NR	670	286	NR	800	4	NR	930	0	NR
415	3	NR	545	331	NR	675	245	NR	805	3	NR	935	0	NR
420	6	NR	550	366	NR	680	210	NR	810	3	NR	940	0	NR
425	12	NR	555	411	NR	685	178	NR	815	3	NR	945	0	NR
430	21	NR	560	469	NR	690	152	NR	820	2	NR	950	0	NR
435	38	NR	565	536	NR	695	129	NR	825	2	NR	955	0	NR
440	66	NR	570	614	NR	700	109	NR	830	2	NR	960	0	NR
445	122	NR	575	701	NR	705	92	NR	835	1	NR	965	0	NR
450	215	NR	580	785	NR	710	77	NR	840	1	NR	970	0	NR
455	236	NR	585	863	NR	715	66	NR	845	1	NR	975	0	NR
460	170	NR	590	928	NR	720	55	NR	850	1	NR	980	0	NR
465	148	NR	595	971	NR	725	47	NR	855	1	NR	985	0	NR
470	132	NR	600	994	NR	730	40	NR	860	1	NR	990	0	NR
475	104	NR	605	996	NR	735	33	NR	865	1	NR	995	0	NR
480	97	NR	610	979	NR	740	28	NR	870	1	NR	1000	0	NR
485	105	NR	615	943	NR	745	24	NR	875	0	NR			

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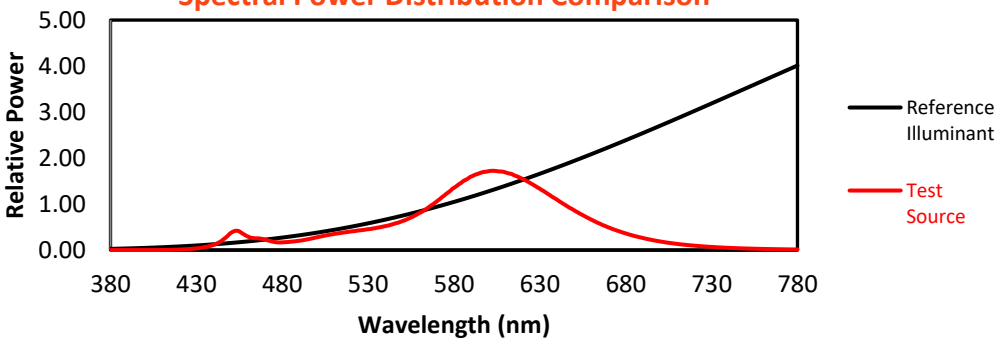
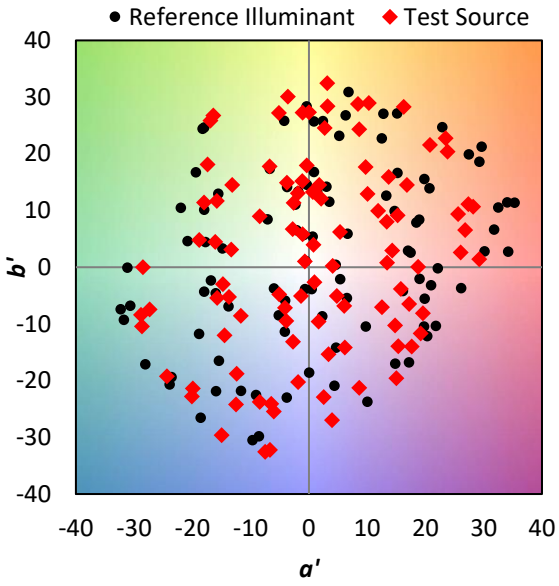
Summary

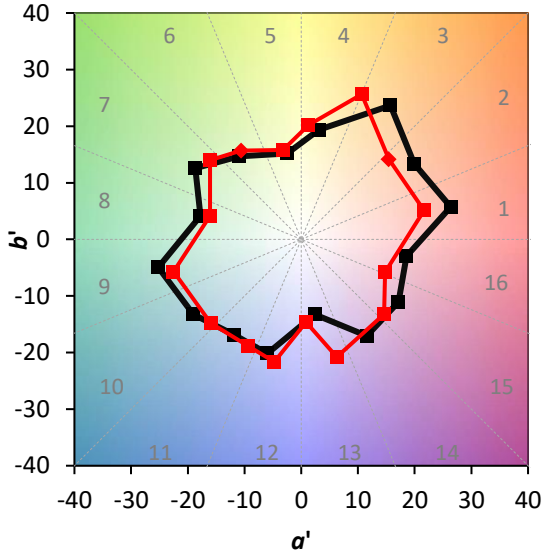
R_f = 76.9
R_g = 92.7
CIE R_a = 70.6
R_9 = -36.0

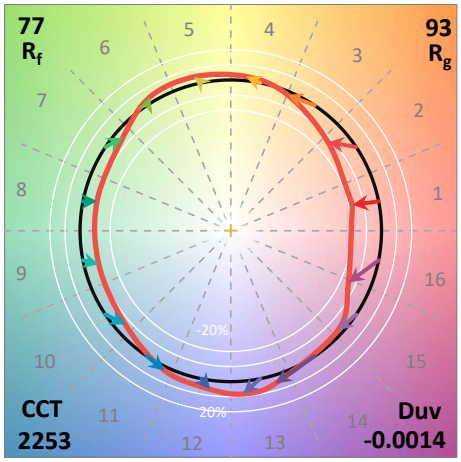
Spectral Power Distribution Comparison

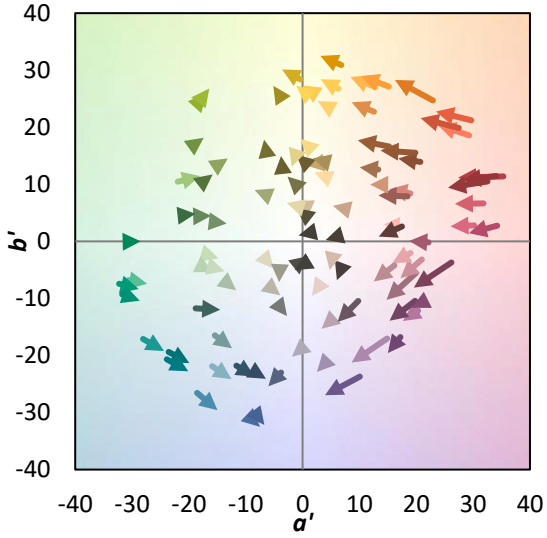


Color Vector Graphics









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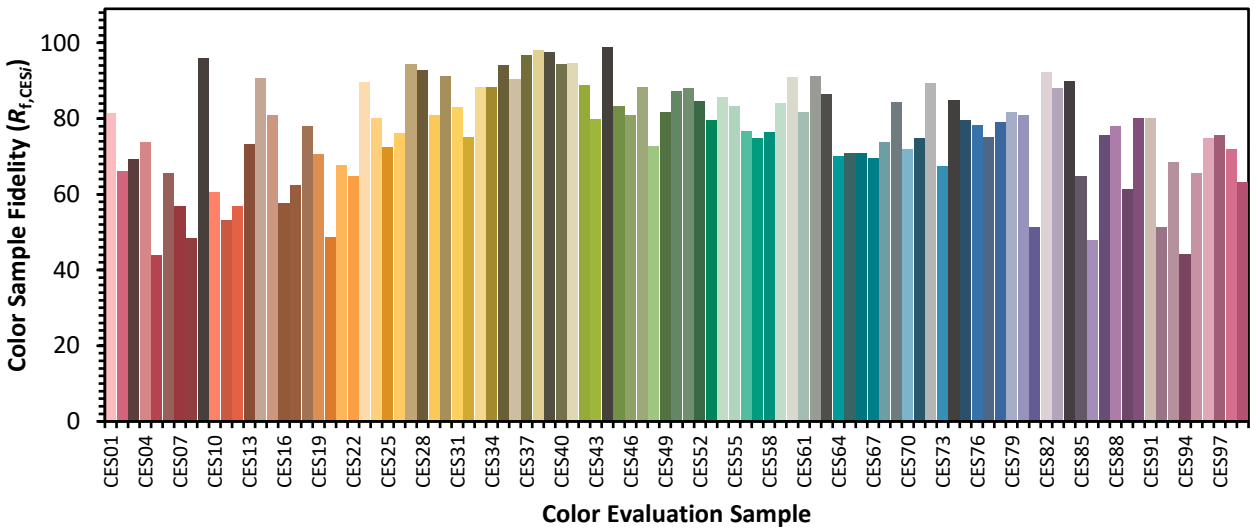
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 76	CES51 = 88	CES76 = 78
CES02 = 65	CES27 = 94	CES52 = 85	CES77 = 75
CES03 = 32	CES28 = 93	CES53 = 80	CES78 = 79
CES04 = 72	CES29 = 81	CES54 = 86	CES79 = 82
CES05 = 51	CES30 = 91	CES55 = 83	CES80 = 81
CES06 = 52	CES31 = 83	CES56 = 77	CES81 = 51
CES07 = 44	CES32 = 75	CES57 = 75	CES82 = 92
CES08 = 42	CES33 = 88	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 88	CES59 = 84	CES84 = 90
CES10 = 79	CES35 = 94	CES60 = 91	CES85 = 65
CES11 = 62	CES36 = 90	CES61 = 82	CES86 = 48
CES12 = 68	CES37 = 97	CES62 = 91	CES87 = 76
CES13 = 45	CES38 = 98	CES63 = 86	CES88 = 78
CES14 = 75	CES39 = 97	CES64 = 70	CES89 = 61
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 95	CES66 = 71	CES91 = 80
CES17 = 51	CES42 = 89	CES67 = 70	CES92 = 51
CES18 = 57	CES43 = 80	CES68 = 74	CES93 = 68
CES19 = 74	CES44 = 99	CES69 = 84	CES94 = 44
CES20 = 68	CES45 = 83	CES70 = 72	CES95 = 66
CES21 = 88	CES46 = 81	CES71 = 75	CES96 = 75
CES22 = 81	CES47 = 88	CES72 = 89	CES97 = 76
CES23 = 92	CES48 = 73	CES73 = 68	CES98 = 72
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 80	



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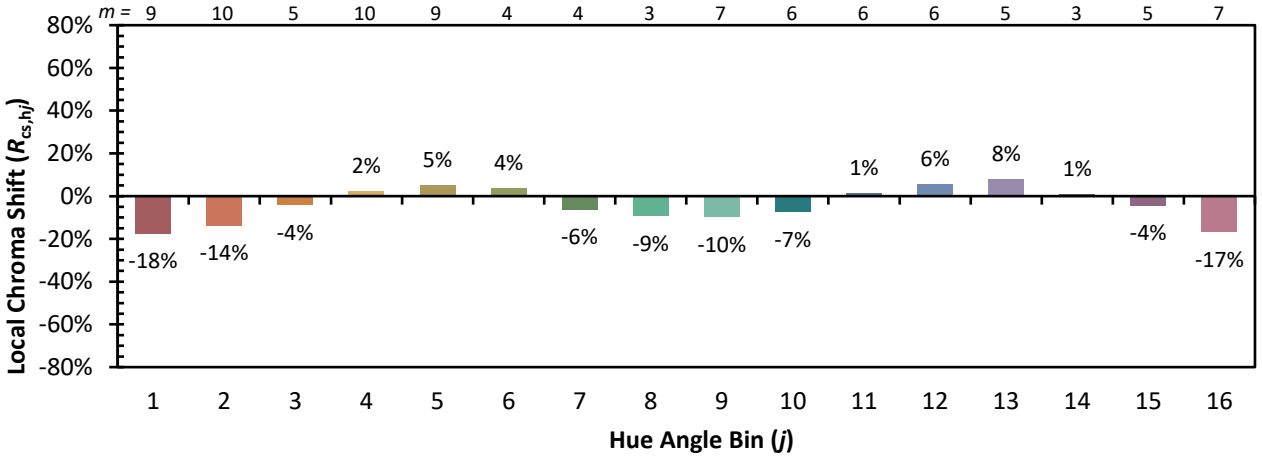
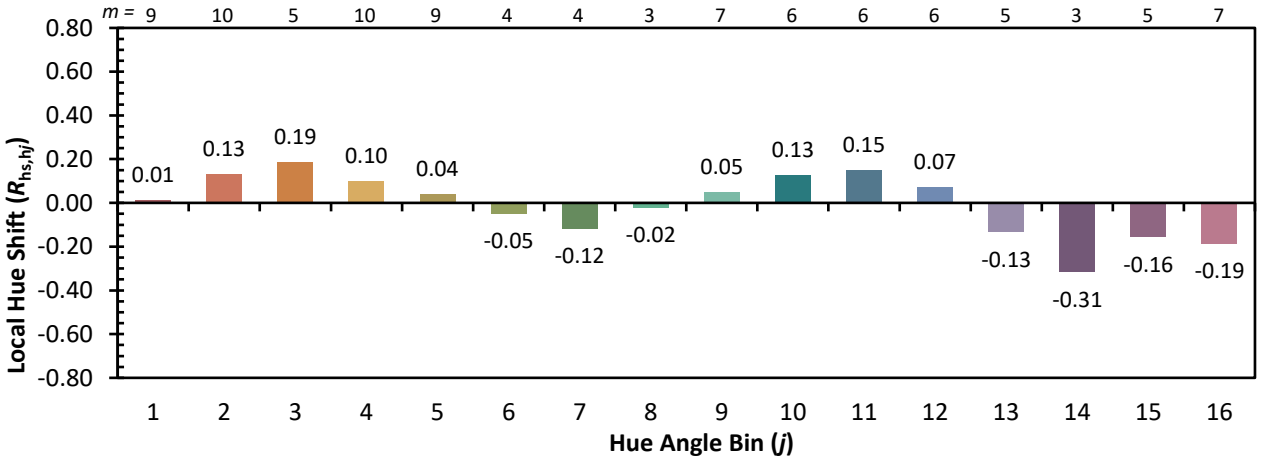
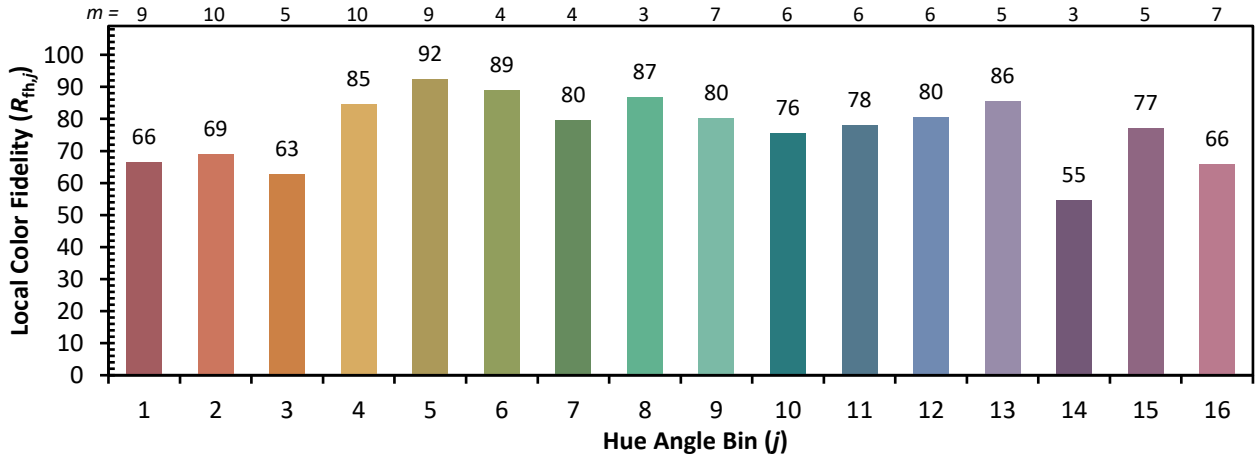
Color Rendition by Hue-Angle Bin







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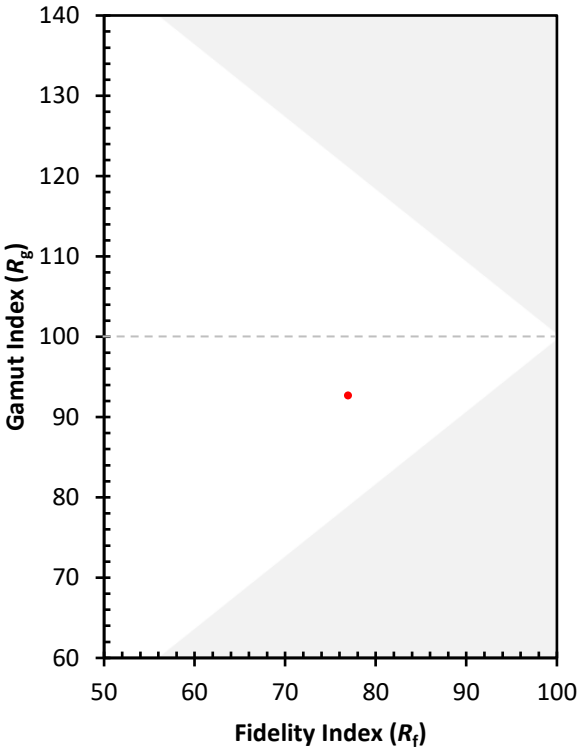
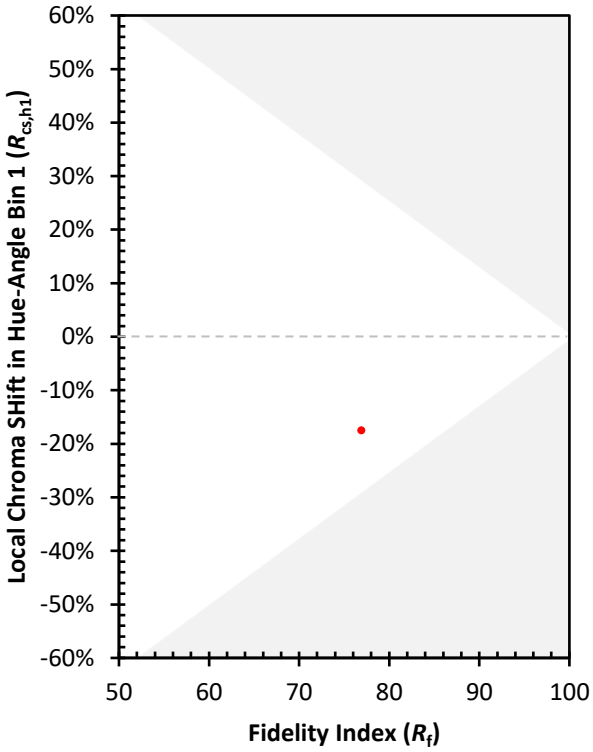
Measure Comparisons





(END OF REPORT)