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: P871182

Luminaire Tested: **EMM2-HSN-SA1B-840-U-T3**

Issue Date: 09/05/2024

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:	P871182
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA1B-840-U-T3
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 60W 80CRI 4000K FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source:	(10) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5959 lumens
Efficiency:	N/A
Efficacy:	135.4 lumens/watt
Luminous Opening:	Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - 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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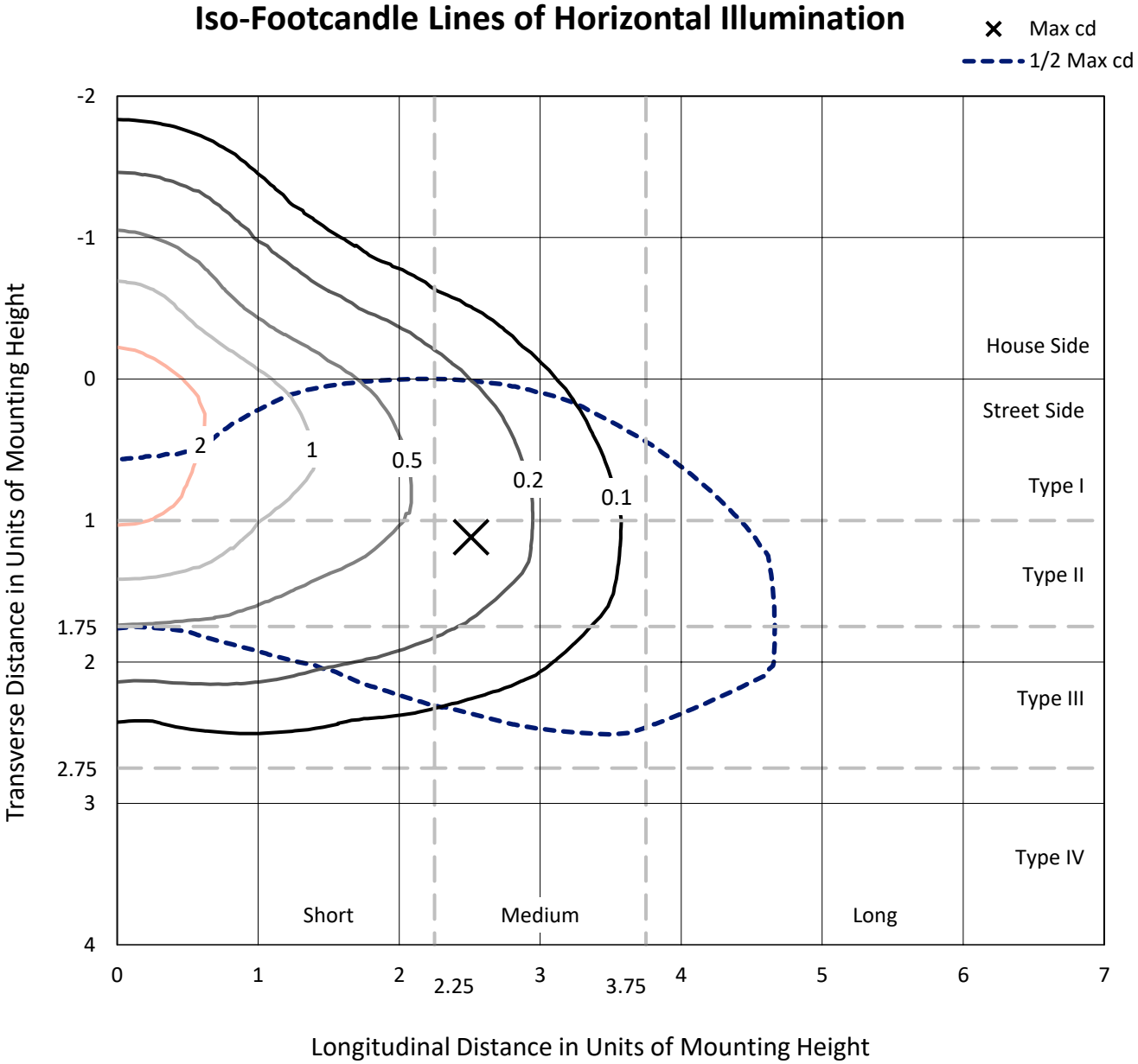
Scaled Data Report

REPORT NUMBER: P871182
CATALOG NUMBER: EMM2-HSN-SA1B-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Medium - N/A

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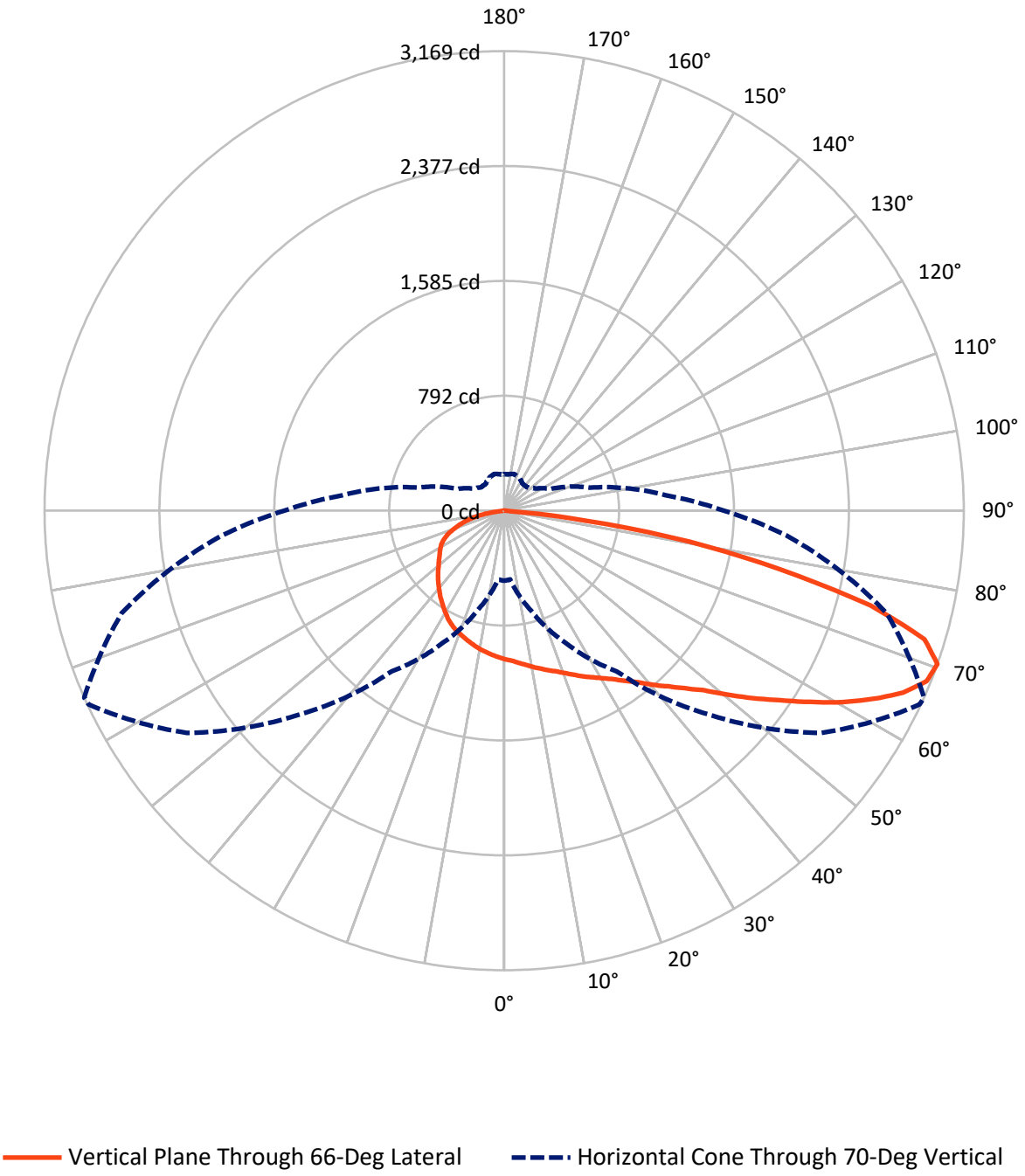
Luminous Intensity Polar Plot



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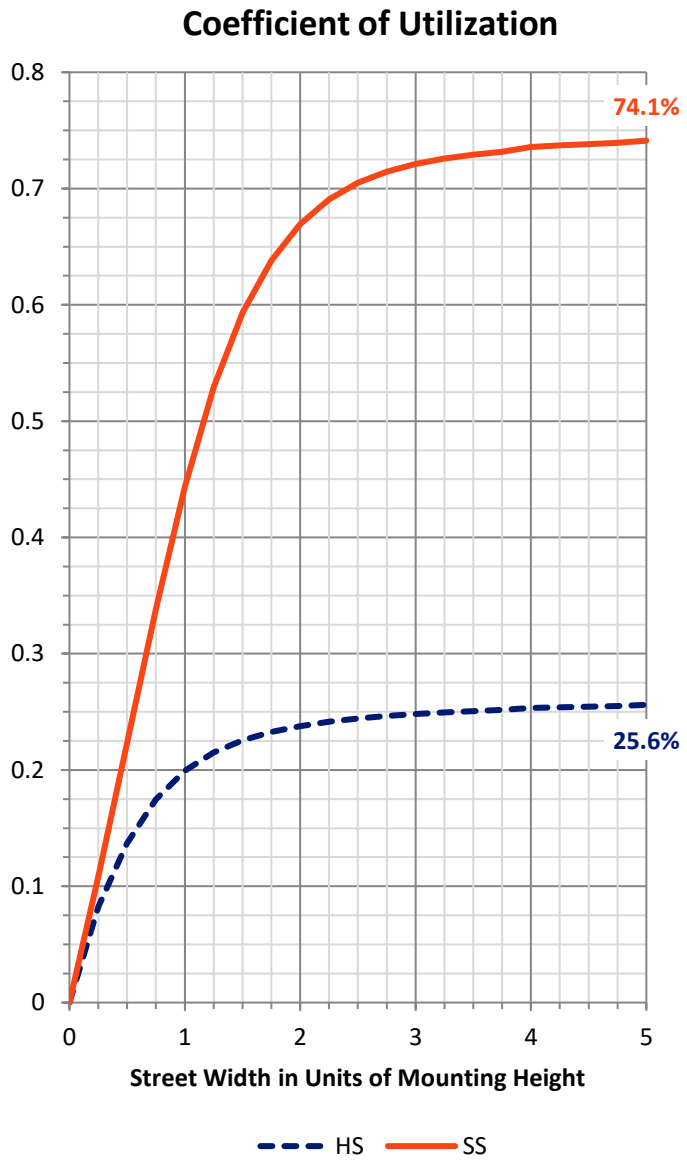
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.7	0.0	1535.7
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	4423.3	0.0	4423.3
	% Fixture	74.2	0.0	74.2
Total	Lumens	5959.0	0.0	5959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.6
10°-20°	292.3	4.9
20°-30°	490.9	8.2
30°-40°	739.6	12.4
40°-50°	1004.0	16.8
50°-60°	1193.1	20.0
60°-70°	1217.6	20.4
70°-80°	814.4	13.7
80°-90°	109.0	1.8
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°	5959.0	100.0
0°-180°	5959.0	100.0



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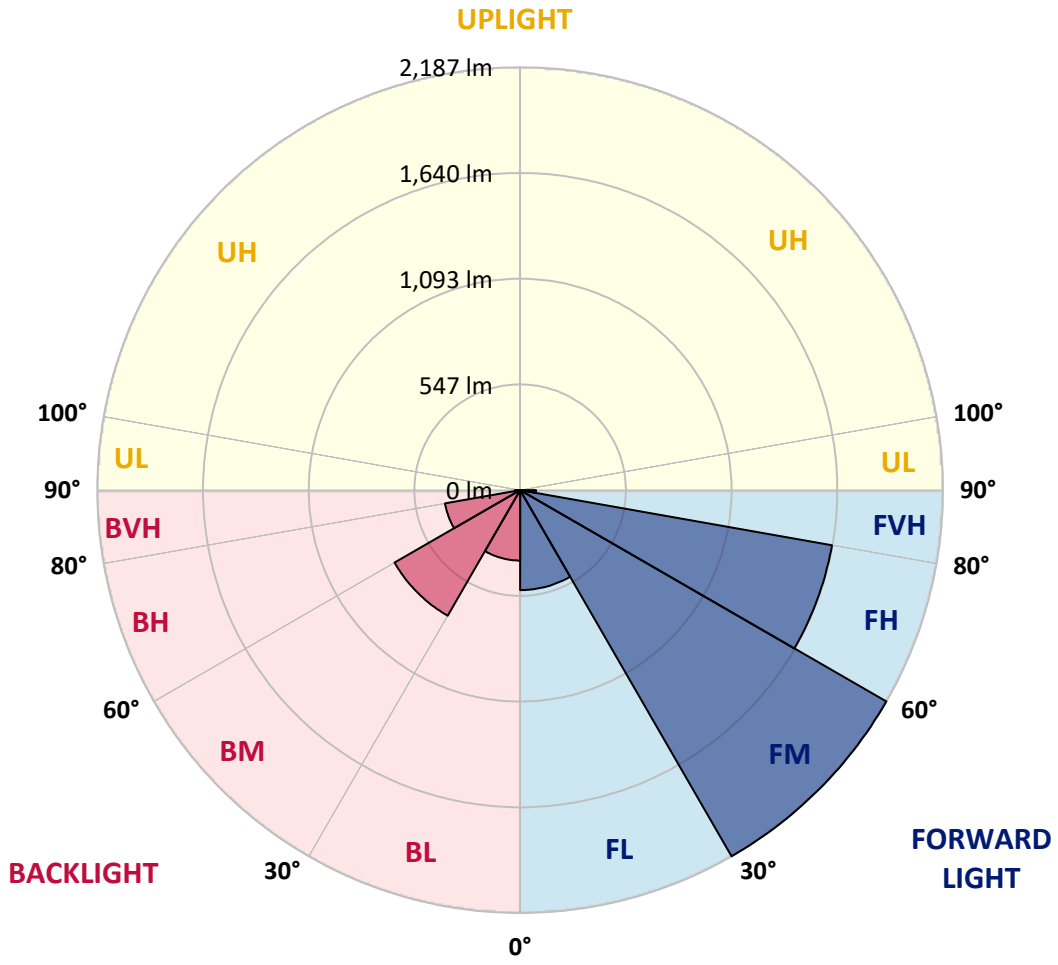
REPORT NUMBER: P871182
CATALOG NUMBER: EMM2-HSN-SA1B-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	517.1	8.7			
FM	(30°-60°)	2186.8	36.7			
FH	(60°-80°)	1637.7	27.5			G1/1800
FVH	(80°-90°)	81.6	1.4			G1/100
BL	(0°-30°)	364.1	6.1	B1/500		
BM	(30°-60°)	749.9	12.6	B1/1000		
BH	(60°-80°)	394.3	6.6	B1/500		G1/500
BVH	(80°-90°)	27.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	*1025.3*	1025.3	1025.3
2.5°	1062.0	1057.2	1053.7	1056.1	1048.9	1051.3	1043.0	1037.1	*1035.9*	1033.6	1031.2
5°	1095.1	1095.1	1089.2	1089.2	1080.9	1079.7	1067.9	1054.9	*1054.9*	1046.6	1037.1
7.5°	1130.6	1128.3	1121.2	1120.0	1110.5	1108.1	1095.1	1075.0	*1073.8*	1058.4	1044.2
10°	1155.5	1156.7	1151.9	1151.9	1144.8	1138.9	1120.0	1098.7	*1096.3*	1076.2	1053.7
12.5°	1174.4	1176.8	1175.6	1175.6	1169.7	1169.7	1148.4	1120.0	*1117.6*	1091.6	1059.6
15°	1194.6	1193.4	1196.9	1198.1	1195.8	1192.2	1176.8	1143.7	*1142.5*	1108.1	1067.9
17.5°	1212.3	1211.1	1212.3	1218.2	1219.4	1219.4	1204.0	1169.7	*1165.0*	1128.3	1075.0
20°	1223.0	1225.4	1230.1	1237.2	1240.7	1250.2	1237.2	1200.5	*1195.8*	1149.6	1090.4
22.5°	1263.2	1256.1	1259.7	1264.4	1269.2	1282.2	1270.3	1232.5	*1228.9*	1181.5	1108.1
25°	1331.9	1331.9	1323.6	1315.3	1309.4	1315.3	1305.9	1269.2	*1266.8*	1210.0	1128.3
27.5°	1451.5	1451.5	1433.7	1402.9	1363.9	1353.2	1346.1	1308.2	*1301.1*	1240.7	1141.3
30°	1603.0	1607.8	1575.8	1523.7	1451.5	1404.1	1386.4	1344.9	*1341.4*	1271.5	1161.4
32.5°	1765.2	1774.7	1751.0	1675.2	1556.8	1464.5	1436.1	1393.5	*1385.2*	1308.2	1187.5
35°	1910.8	1920.3	1888.3	1817.3	1665.8	1552.1	1495.3	1446.7	*1442.0*	1355.6	1226.5
37.5°	2029.2	2031.6	2011.5	1925.0	1756.9	1625.5	1568.7	1510.7	*1501.2*	1412.4	1268.0
40°	2154.7	2164.2	2144.1	2037.5	1839.8	1704.8	1642.1	1587.6	*1579.3*	1471.6	1307.0
42.5°	2286.1	2285.0	2285.0	2134.6	1922.7	1771.1	1721.4	1661.0	*1656.3*	1532.0	1349.7
45°	2366.6	2371.4	2358.4	2192.6	2044.6	1839.8	1798.4	1754.6	*1746.3*	1616.0	1405.3
47.5°	2386.8	2376.1	2316.9	2237.6	2182.0	1910.8	1895.4	1869.4	*1850.5*	1708.4	1474.0
50°	2359.5	2343.0	2308.6	2257.7	2232.9	1996.1	1993.7	2006.7	*1993.7*	1820.9	1553.3
52.5°	2257.7	2255.4	2249.4	2261.3	2221.0	2063.6	2105.0	2150.0	*2147.6*	1935.7	1636.2
55°	2043.4	2058.8	2129.9	2204.4	2176.0	2109.7	2229.3	2315.7	*2306.3*	2070.7	1721.4
57.5°	1824.4	1839.8	1931.0	2108.6	2132.2	2159.5	2369.0	2504.0	*2488.6*	2217.5	1799.5
60°	1633.8	1617.2	1708.4	1964.1	2070.7	2204.4	2507.5	2694.6	*2681.6*	2364.3	1880.1
62.5°	1331.9	1348.5	1494.1	1753.4	1984.2	2232.9	2621.2	2867.4	*2859.2*	2499.2	1945.2
65°	1053.7	1031.2	1250.2	1532.0	1835.1	2223.4	2719.5	3029.6	*3023.7*	2631.8	1994.9
67.5°	716.3	700.9	989.8	1311.8	1632.6	2147.6	2741.9	3138.6	*3140.9*	2710.0	2007.9
70°	*483.0*	*475.9*	*711.5*	*1008.7*	*1352.0*	*1984.2*	*2672.1*	*3161.1*	*3169.3*	*2730.1*	*1949.9*
72.5°	356.4	355.2	520.9	719.8	1006.3	1675.2	2481.5	3014.2	*3029.6*	2588.0	1779.4
75°	280.6	284.1	371.7	511.5	671.3	1239.6	2087.2	2584.5	*2608.2*	2235.2	1477.5
77.5°	229.7	229.7	260.5	367.0	448.7	769.5	1501.2	1891.9	*1939.3*	1725.0	1137.7
80°	185.9	189.4	193.0	255.7	297.2	439.2	873.7	1262.1	*1296.4*	1201.7	821.6
82.5°	101.8	108.9	105.4	132.6	149.2	203.6	346.9	510.3	*562.4*	500.8	372.9
85°	7.1	4.7	8.3	10.7	13.0	20.1	27.2	37.9	*35.5*	50.9	26.0
87.5°	1.2	1.2	1.2	2.4	2.4	3.6	4.7	4.7	*4.7*	4.7	4.7
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

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CATALOG NUMBER: EMM2-HSN-SA1B-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3
2.5°	1030.0	1024.1	1014.6	1012.2	1008.7	1004.0	999.2	992.1	989.8	992.1	994.5
5°	1031.2	1022.9	1007.5	998.0	988.6	980.3	970.8	961.3	955.4	956.6	961.3
7.5°	1034.7	1022.9	999.2	983.8	968.4	955.4	940.0	929.4	922.3	923.5	927.0
10°	1039.5	1022.9	994.5	968.4	947.1	928.2	912.8	899.8	892.7	891.5	892.7
12.5°	1040.7	1021.7	983.8	951.9	925.8	901.0	884.4	872.5	865.4	861.9	864.3
15°	1044.2	1018.2	973.2	934.1	902.1	876.1	856.0	841.8	837.0	834.7	833.5
17.5°	1048.9	1017.0	963.7	916.3	878.5	848.9	831.1	816.9	811.0	808.6	811.0
20°	1056.1	1018.2	953.1	898.6	857.2	827.6	807.4	793.2	788.5	787.3	786.1
22.5°	1065.5	1020.5	944.8	882.0	833.5	803.9	783.8	774.3	770.7	771.9	771.9
25°	1075.0	1022.9	932.9	859.5	808.6	777.8	763.6	756.5	758.9	763.6	763.6
27.5°	1083.3	1021.7	916.3	835.8	779.0	750.6	739.9	741.1	747.0	755.3	756.5
30°	1093.9	1021.7	898.6	806.2	745.9	718.6	716.3	725.7	735.2	743.5	743.5
32.5°	1110.5	1028.8	884.4	776.6	711.5	690.2	700.9	713.9	724.6	732.8	735.2
35°	1138.9	1044.2	874.9	747.0	678.4	663.0	683.1	704.4	711.5	717.5	718.6
37.5°	1166.2	1058.4	863.1	718.6	644.0	638.1	665.4	687.9	689.0	692.6	692.6
40°	1192.2	1069.1	847.7	687.9	610.9	610.9	642.9	661.8	659.4	655.9	657.1
42.5°	1220.6	1075.0	829.9	659.4	583.7	583.7	609.7	626.3	625.1	629.8	633.4
45°	1254.9	1086.8	806.2	633.4	555.3	550.5	571.8	586.0	603.8	625.1	631.0
47.5°	1302.3	1103.4	787.3	605.0	531.6	515.0	523.3	552.9	573.0	590.8	593.1
50°	1352.0	1127.1	770.7	575.4	503.2	473.6	480.7	513.8	525.7	532.8	536.3
52.5°	1405.3	1146.0	756.5	550.5	473.6	430.9	440.4	472.4	480.7	486.6	487.8
55°	1451.5	1161.4	738.8	526.8	441.6	390.7	402.5	433.3	441.6	448.7	448.7
57.5°	1500.0	1175.6	726.9	506.7	407.3	357.5	365.8	396.6	408.5	410.8	414.4
60°	1540.3	1188.6	716.3	487.8	375.3	327.9	333.9	361.1	375.3	376.5	378.9
62.5°	1568.7	1196.9	710.3	464.1	343.3	298.3	303.1	330.3	346.9	350.4	351.6
65°	1586.4	1201.7	699.7	433.3	316.1	273.5	273.5	300.7	317.3	325.6	327.9
67.5°	1578.2	1193.4	671.3	397.8	291.2	248.6	247.4	274.7	288.9	293.6	294.8
70°	*1514.2*	*1144.8*	*613.3*	*354.0*	*265.2*	*226.1*	*223.8*	*248.6*	*261.6*	*251.0*	*252.2*
72.5°	1384.0	1034.7	533.9	310.2	238.0	204.8	202.4	223.8	224.9	224.9	223.8
75°	1166.2	845.3	426.2	264.0	209.6	182.3	183.5	200.1	201.3	207.2	203.6
77.5°	893.9	626.3	332.7	210.7	177.6	162.2	168.1	174.0	182.3	190.6	182.3
80°	650.0	432.1	230.9	157.5	137.3	137.3	139.7	145.6	157.5	165.7	157.5
82.5°	278.2	190.6	106.6	78.1	67.5	66.3	67.5	67.5	82.9	85.2	74.6
85°	21.3	17.8	13.0	13.0	10.7	5.9	5.9	4.7	3.6	3.6	3.6
87.5°	4.7	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-8

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-40-840-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-40-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

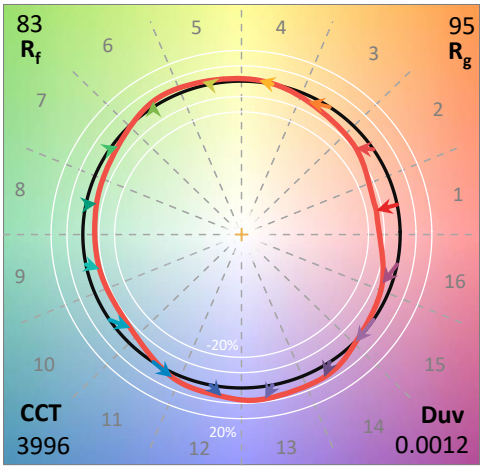
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-40-840-U-5WQ**
Description:	Epic Modern Light Square 40W 5WQ Optic

Spectral Parameters

CCT (K):	3996
CIE u':	0.2245
CIE v':	0.5031
Duv:	0.0012
CIE x:	0.3815
CIE y:	0.3799
CIE z:	0.2386
Peak Wavelength (nm):	449
Dominant Wavelength (nm):	578
Purity:	28.49233
Rf:	82.6
Rg:	95.1

CRI (Ra):	80.6
R1:	78.1
R2:	87.1
R3:	94.5
R4:	79.7
R5:	78.7
R6:	82.7
R7:	84.3
R8:	59.5
R9:	-5.8
R10:	70.3
R11:	78.7
R12:	60.5
R13:	80.2
R14:	97.2
R15:	70.6



Test Conditions

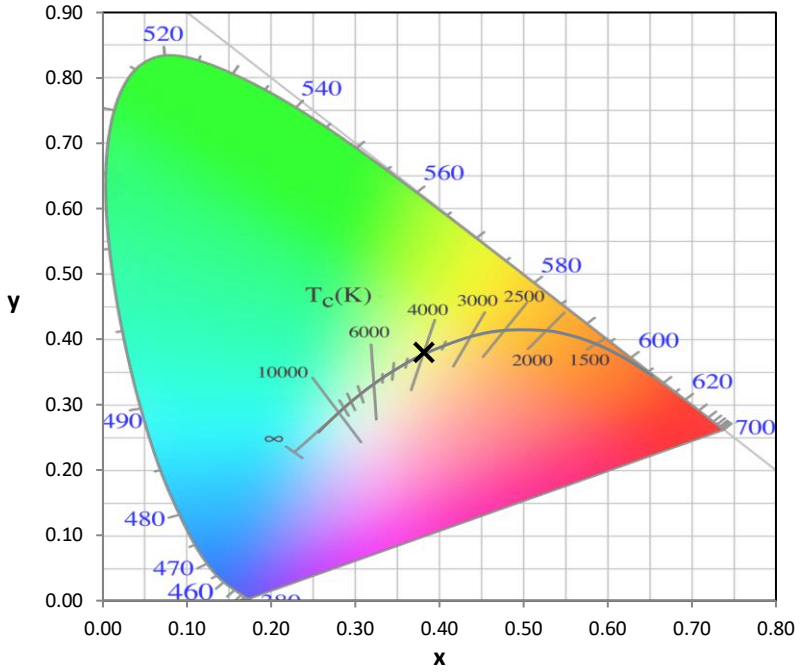
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-8

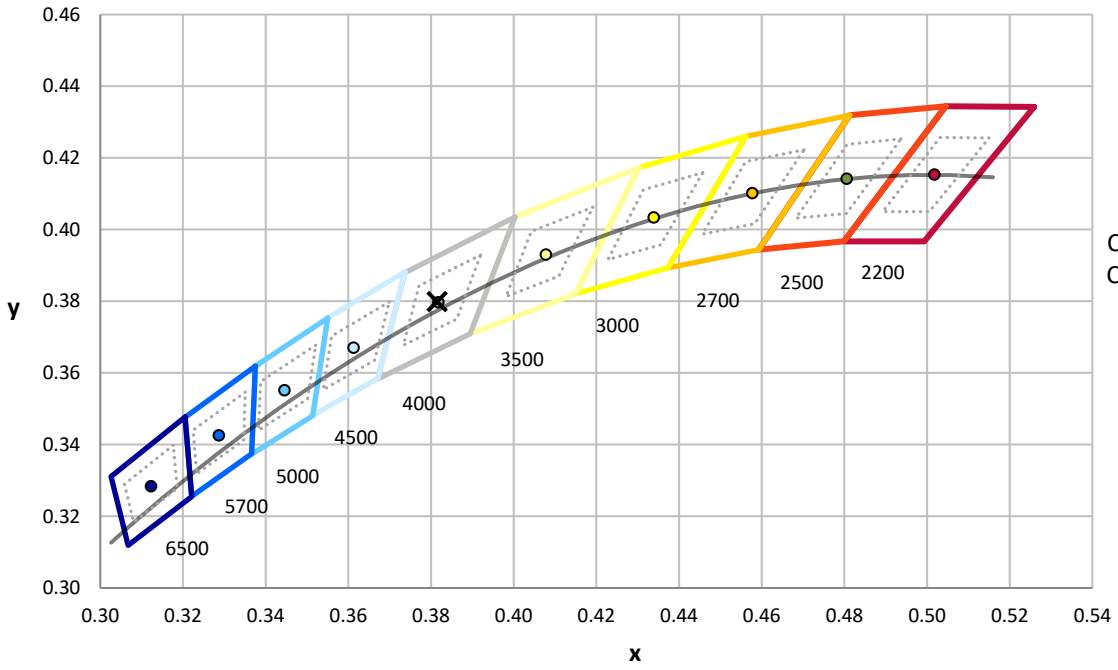
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-8

CIE 1931 Chromaticity Diagram



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

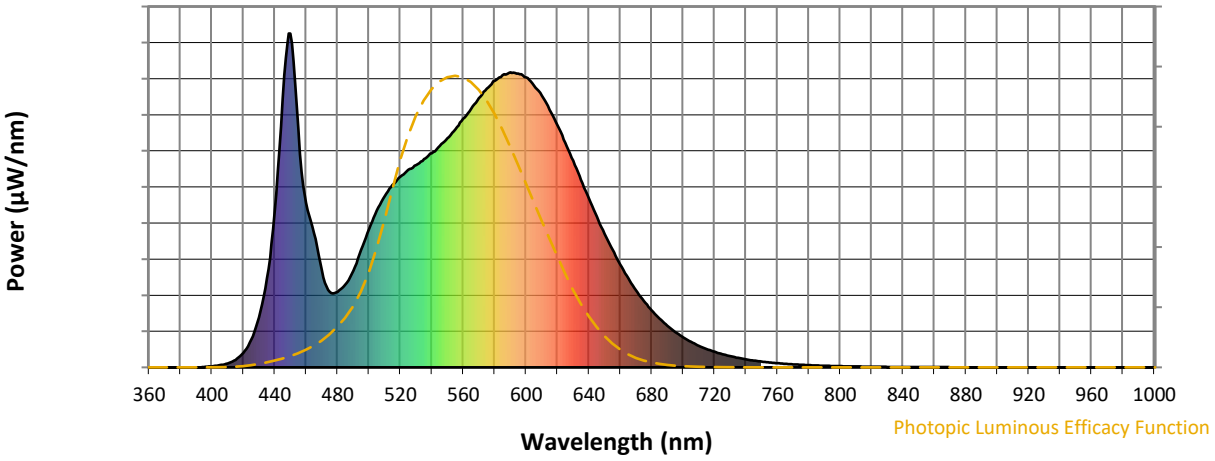


CCT = 3996K
CIE x = 0.3815
CIE y = 0.3799
Duv = 0.0012

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-8

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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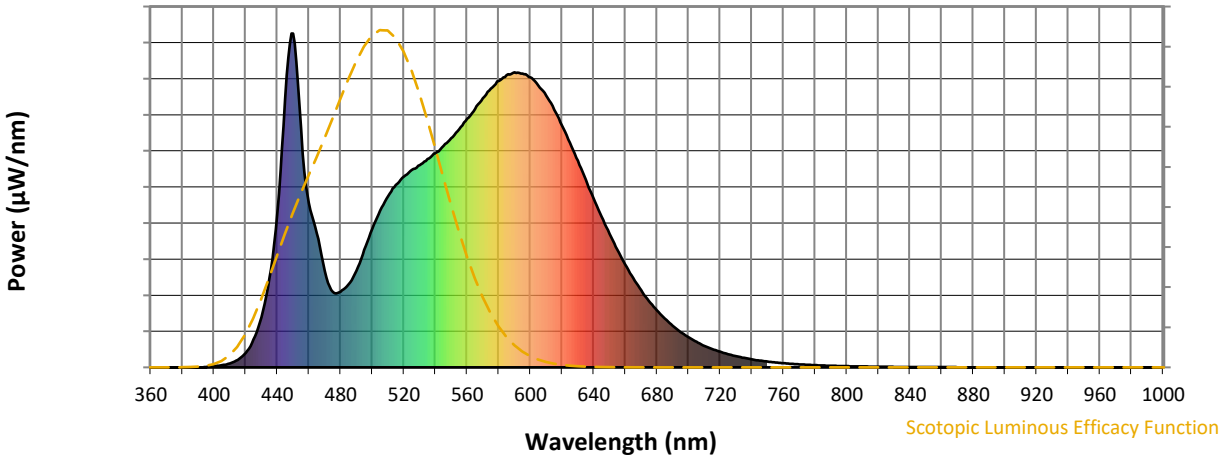
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.66**

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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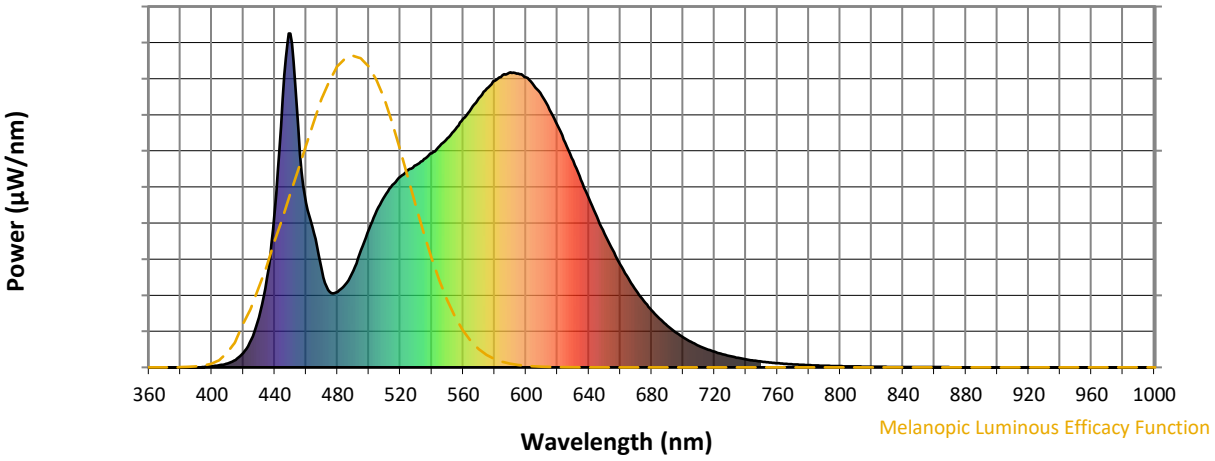
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.37**

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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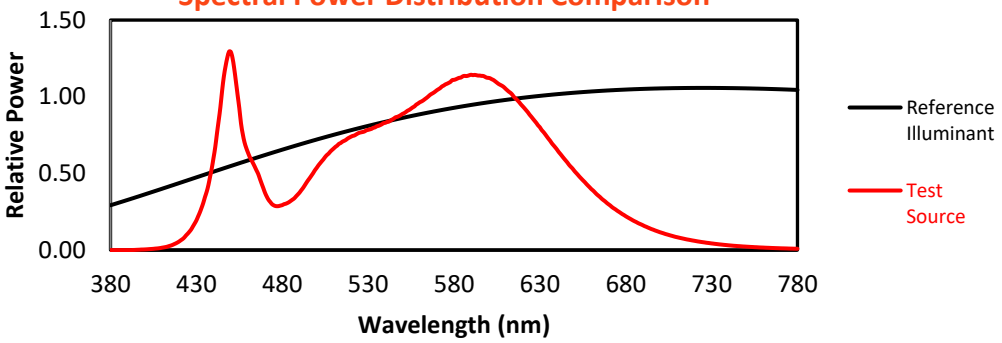
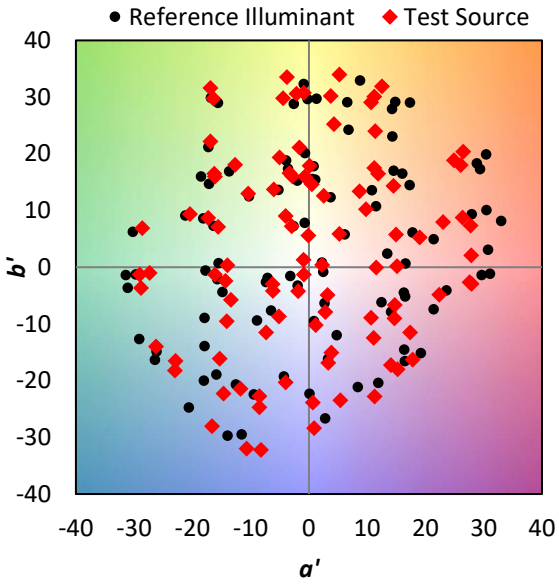
Summary

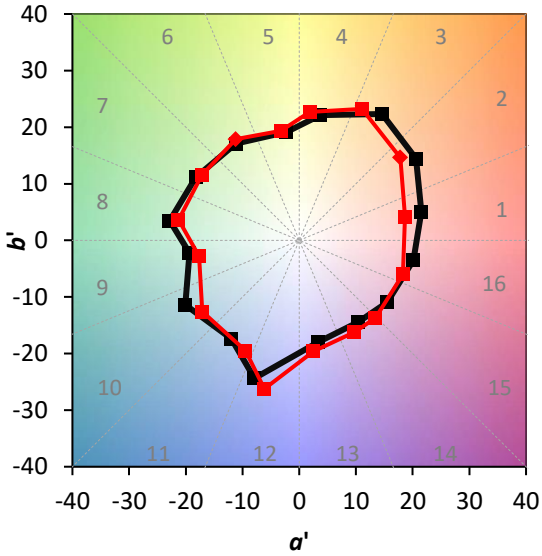
R_f = 82.6
R_g = 95.1
CIE R_a = 80.6
R_9 = -5.8

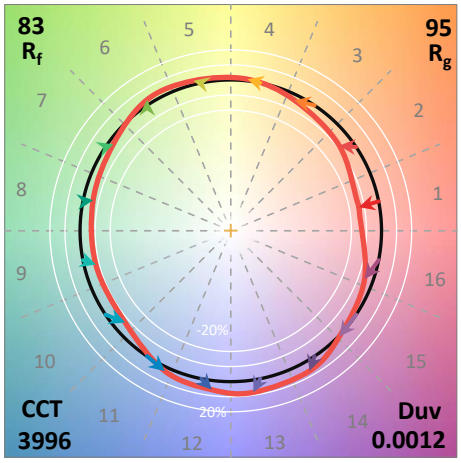
Spectral Power Distribution Comparison

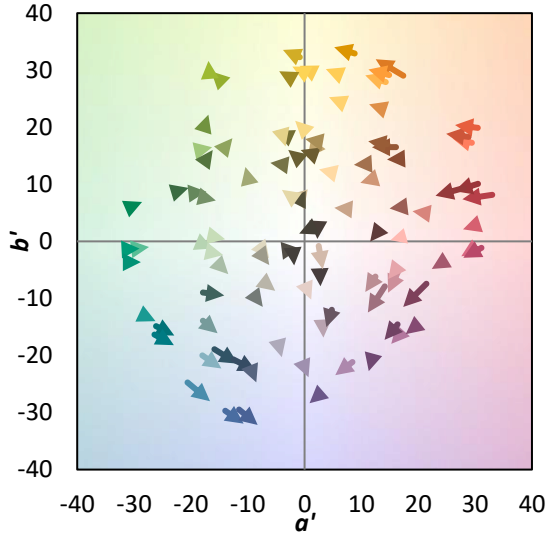


Color Vector Graphics









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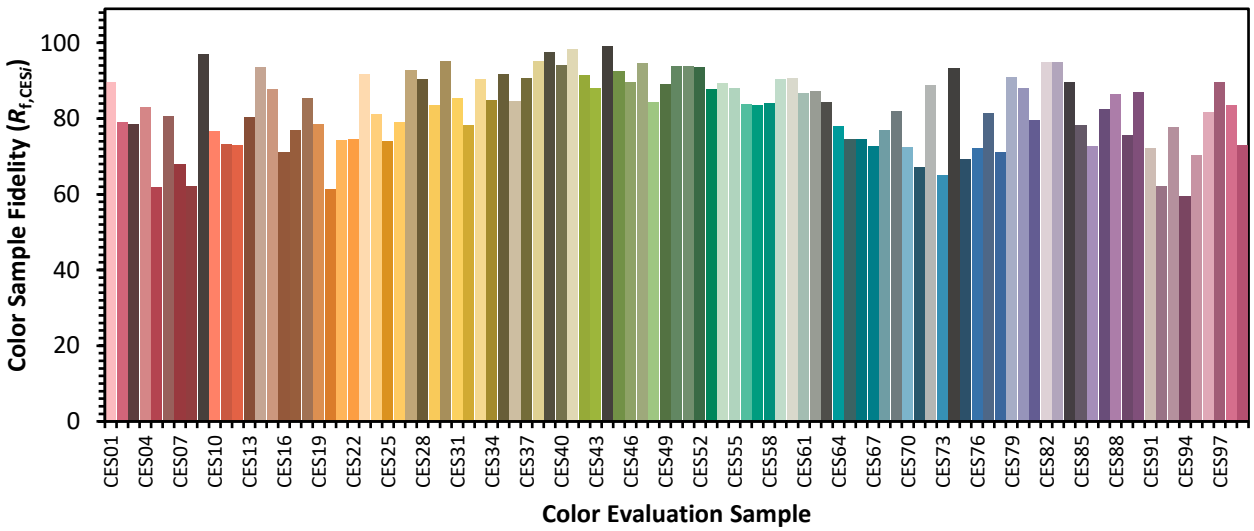
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 79	CES51 = 94	CES76 = 72
CES02 = 61	CES27 = 93	CES52 = 94	CES77 = 82
CES03 = 31	CES28 = 90	CES53 = 88	CES78 = 71
CES04 = 69	CES29 = 83	CES54 = 89	CES79 = 91
CES05 = 48	CES30 = 95	CES55 = 88	CES80 = 88
CES06 = 50	CES31 = 86	CES56 = 84	CES81 = 80
CES07 = 40	CES32 = 78	CES57 = 84	CES82 = 95
CES08 = 39	CES33 = 90	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 85	CES59 = 90	CES84 = 90
CES10 = 74	CES35 = 92	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 85	CES61 = 87	CES86 = 73
CES12 = 63	CES37 = 91	CES62 = 87	CES87 = 83
CES13 = 42	CES38 = 95	CES63 = 84	CES88 = 86
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 76
CES15 = 71	CES40 = 94	CES65 = 75	CES90 = 87
CES16 = 46	CES41 = 98	CES66 = 75	CES91 = 72
CES17 = 49	CES42 = 92	CES67 = 73	CES92 = 62
CES18 = 56	CES43 = 88	CES68 = 77	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 60
CES20 = 65	CES45 = 93	CES70 = 72	CES95 = 70
CES21 = 86	CES46 = 90	CES71 = 67	CES96 = 82
CES22 = 78	CES47 = 95	CES72 = 89	CES97 = 90
CES23 = 91	CES48 = 84	CES73 = 65	CES98 = 84
CES24 = 90	CES49 = 89	CES74 = 93	CES99 = 73
CES25 = 71	CES50 = 94	CES75 = 69	



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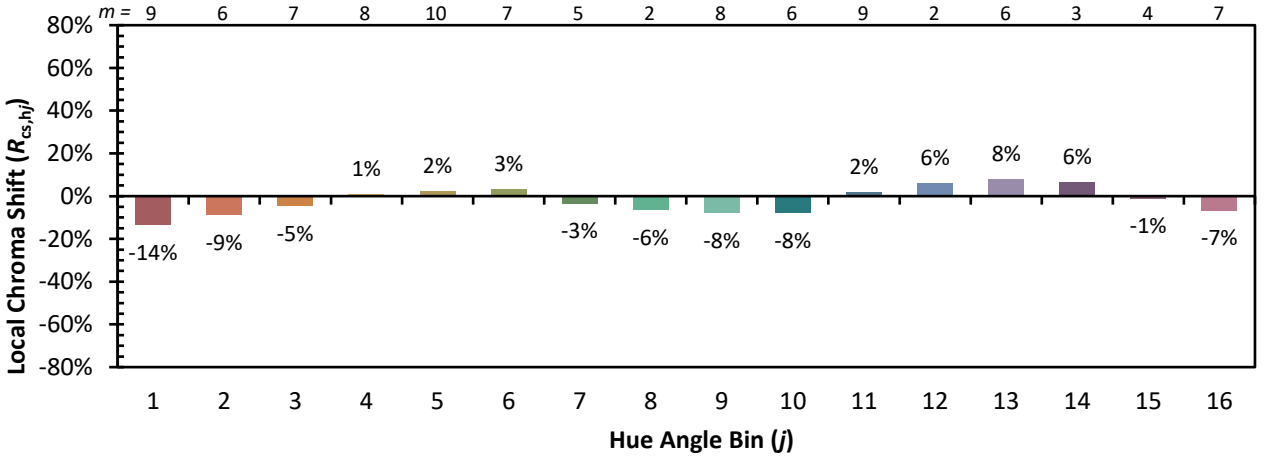
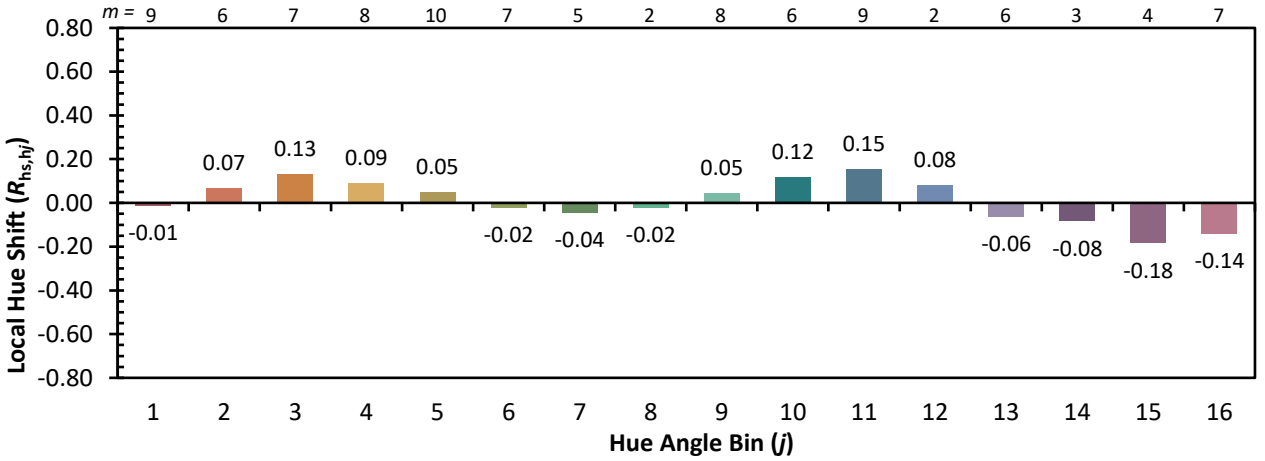
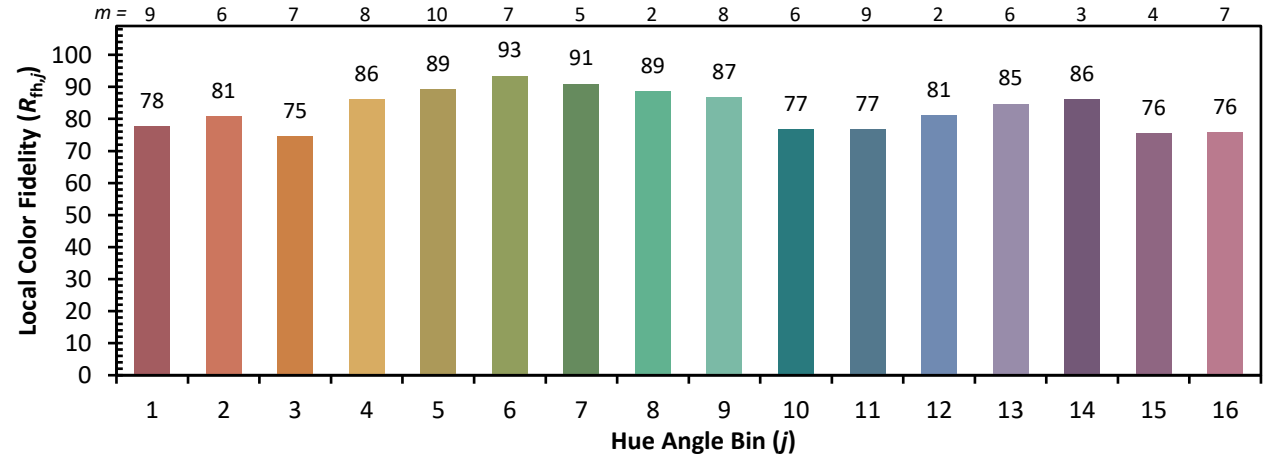
Color Rendition by Hue-Angle Bin







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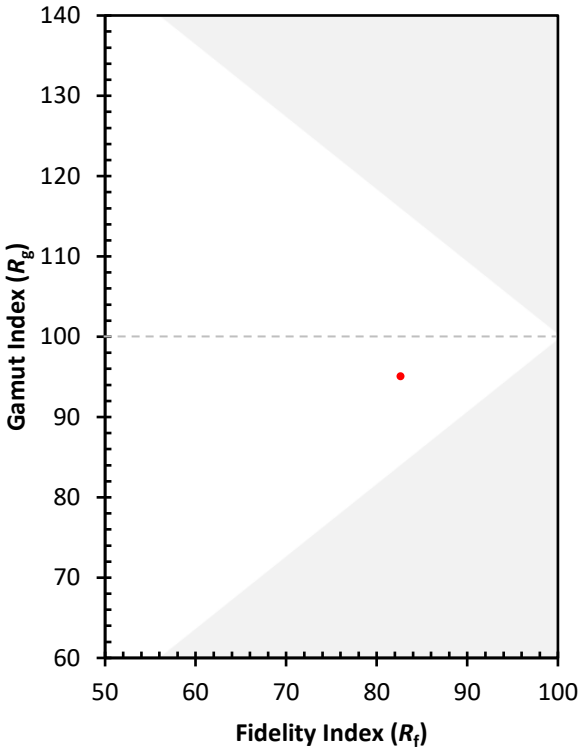
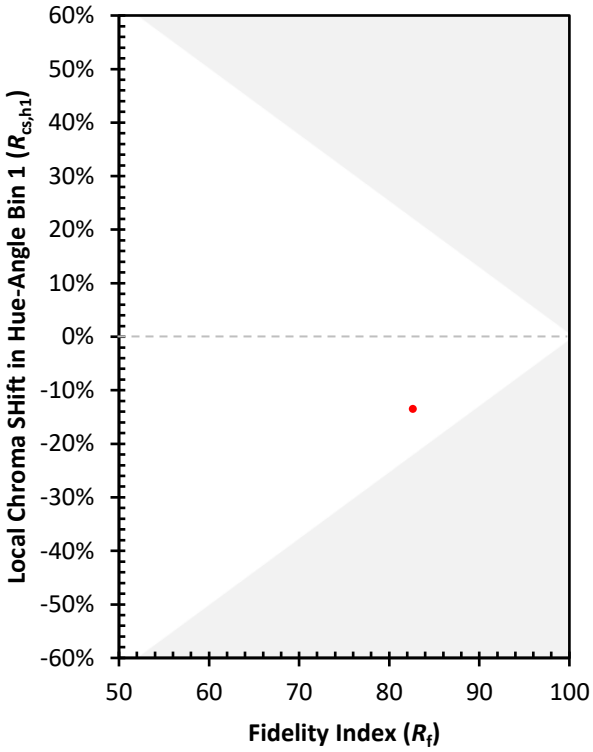
Measure Comparisons





(END OF REPORT)