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: P880236

Luminaire Tested: **EMM2-HTN-VA5-740-U-WT4**

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:	P880236
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	10/01/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-VA5-740-U-WT4
Description:	EPIC MODERN TALL HOUSING 5W 70CRI 4000K VISUAL COMFORT FIXTURE w/ DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source:	(1) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7721.9 lumens
Efficiency:	N/A
Efficacy:	99.0 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	78
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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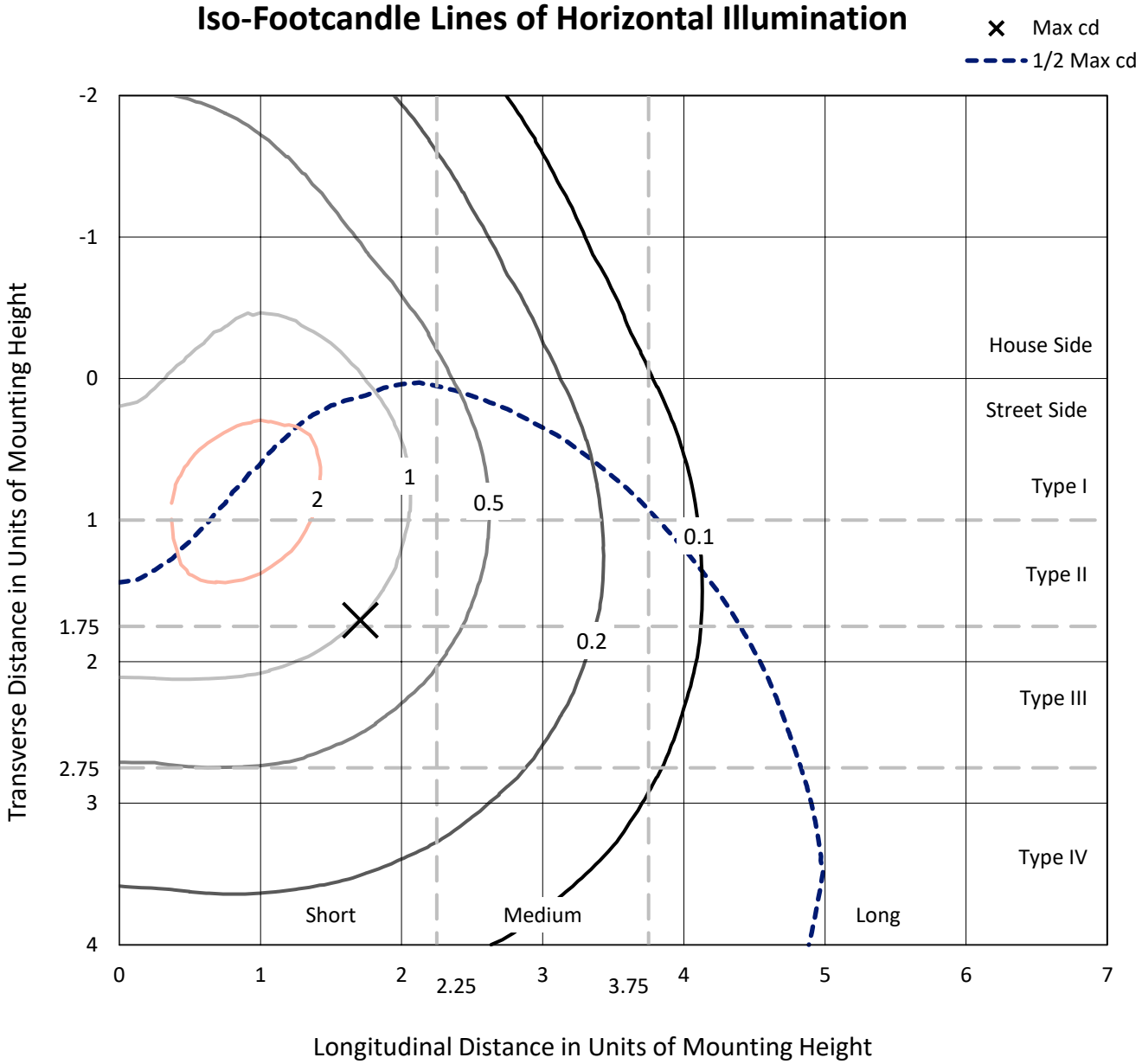
REPORT NUMBER: P880236
CATALOG NUMBER: EMM2-HTN-VA5-740-U-WT4

Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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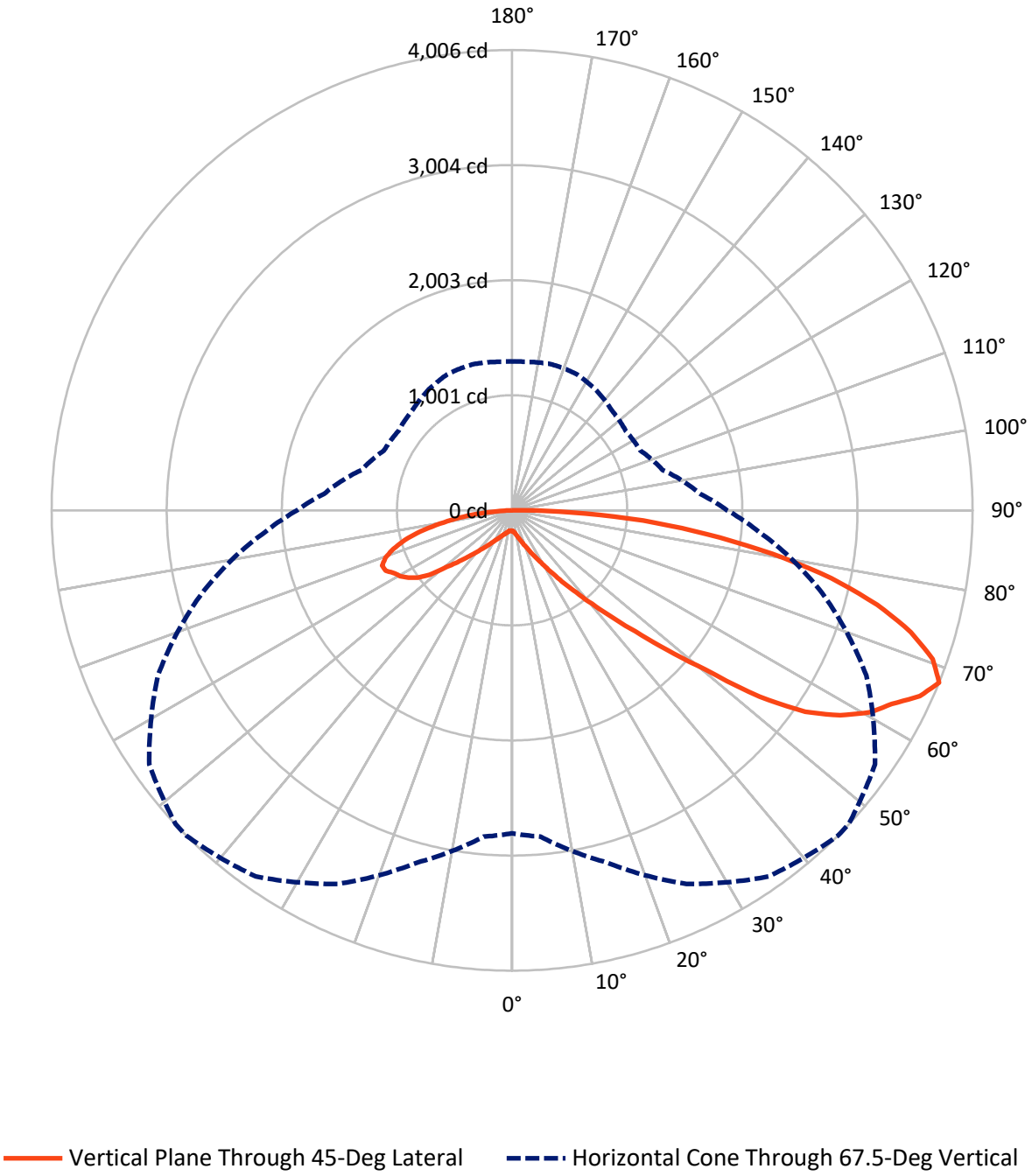
Luminous Intensity Polar Plot



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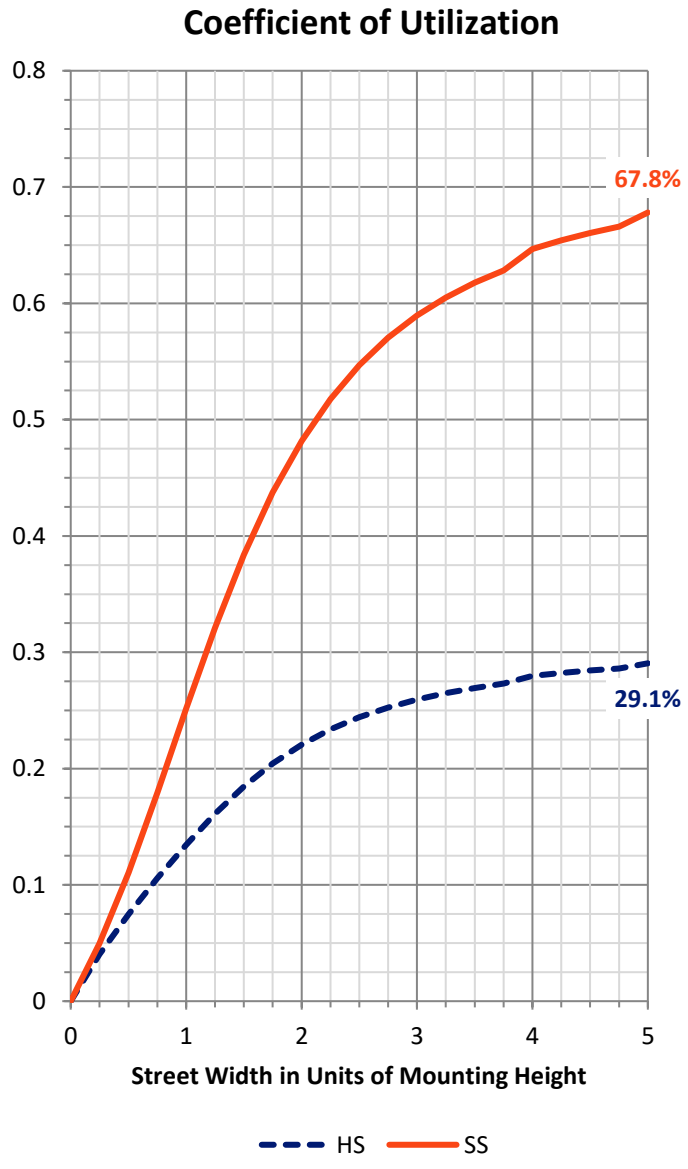
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.5	0.0	2288.5
	% Fixture	29.6	0.0	29.6
Street Side	Lumens	5433.4	0.0	5433.4
	% Fixture	70.4	0.0	70.4
Total	Lumens	7721.9	0.0	7721.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	0.2
10°-20°	68.7	0.9
20°-30°	161.8	2.1
30°-40°	354.9	4.6
40°-50°	772.7	10.0
50°-60°	1587.6	20.6
60°-70°	2236.7	29.0
70°-80°	1898.9	24.6
80°-90°	622.3	8.1
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°	7721.9	100.0
0°-180°	7721.9	100.0



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REPORT NUMBER: P880236
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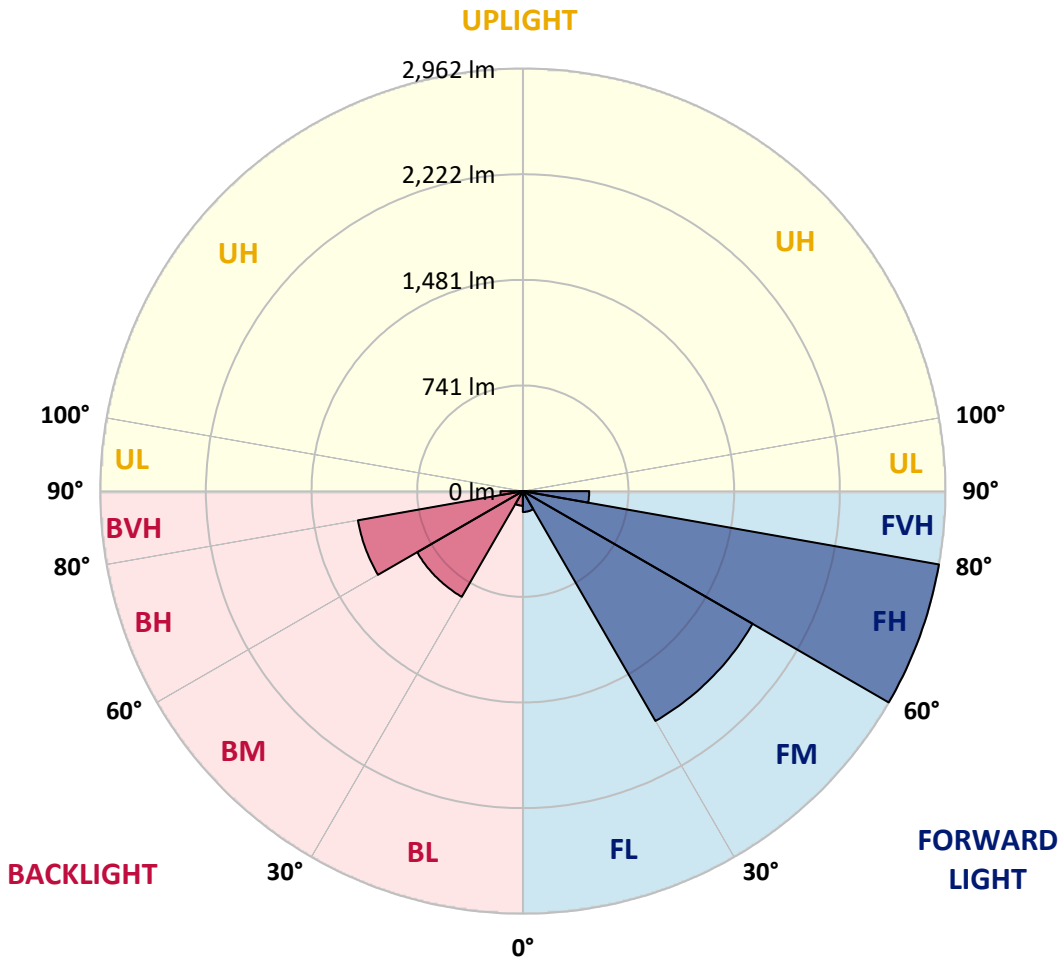
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	146.1	1.9			
FM	(30°-60°)	1859.8	24.1			
FH	(60°-80°)	2962.1	38.4			G2/5000
FVH	(80°-90°)	465.4	6.0			G3/500
BL	(0°-30°)	102.7	1.3	B0/110		
BM	(30°-60°)	855.4	11.1	B1/1000		
BH	(60°-80°)	1173.5	15.2	B3/2500		G3/2500
BVH	(80°-90°)	156.9	2.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type IV Short



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Scaled Data Report

REPORT NUMBER: P880236
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	178.3	178.3	178.3	178.3	178.3	*178.3*	178.3	178.3	178.3	178.3	178.3
2.5°	183.8	183.0	183.8	183.8	183.8	*183.0*	183.0	183.0	182.2	181.5	180.7
5°	194.9	194.9	194.9	194.1	194.1	*192.5*	192.5	191.7	190.1	188.6	187.0
7.5°	209.9	209.1	209.1	208.3	207.5	*205.9*	205.1	204.3	201.2	198.8	195.7
10°	228.0	228.0	227.2	225.6	225.6	*221.7*	222.5	220.9	217.0	212.2	206.7
12.5°	250.1	250.1	248.5	248.5	246.9	*243.8*	243.0	240.6	236.7	228.8	222.5
15°	274.6	274.6	276.1	274.6	273.0	*269.0*	269.0	265.9	257.2	250.9	241.4
17.5°	305.3	301.4	303.7	303.0	303.0	*300.6*	298.2	294.3	287.2	276.1	264.3
20°	336.9	337.7	335.3	337.7	338.5	*335.3*	335.3	330.6	320.3	306.9	288.0
22.5°	376.3	376.3	371.6	377.9	381.9	*379.5*	378.7	369.2	356.6	338.5	319.5
25°	417.4	415.8	423.7	425.2	433.9	*433.1*	432.3	423.7	404.7	382.6	353.5
27.5°	463.9	466.3	481.3	485.2	493.9	*493.1*	492.3	482.8	462.3	432.3	394.5
30°	521.5	524.7	538.9	552.3	567.3	*568.8*	567.3	559.4	529.4	489.9	447.3
32.5°	588.6	597.2	611.4	634.3	653.3	*661.9*	663.5	649.3	615.4	563.3	507.3
35°	680.1	673.0	692.7	730.6	762.1	*779.5*	778.7	759.8	722.7	656.4	576.7
37.5°	770.0	767.7	798.4	848.1	890.7	*904.9*	908.9	896.3	848.9	761.3	667.5
40°	863.9	883.6	919.1	976.7	1039.8	*1069.8*	1072.2	1054.0	989.4	890.7	766.9
42.5°	986.2	1005.9	1050.9	1121.9	1213.4	*1263.1*	1266.3	1245.8	1167.7	1039.8	886.8
45°	1140.8	1151.9	1199.2	1307.3	1424.9	*1504.5*	1527.4	1502.2	1405.9	1228.4	1035.9
47.5°	1307.3	1307.3	1384.6	1527.4	1704.9	*1809.9*	1827.2	1804.3	1660.8	1446.9	1202.4
50°	1492.7	1493.5	1616.6	1820.9	2045.0	*2175.9*	2189.4	2134.1	1960.6	1669.4	1372.0
52.5°	1685.2	1705.7	1885.6	2194.9	2495.5	*2695.9*	2709.3	2645.4	2414.2	1988.2	1552.7
55°	1950.3	1982.6	2243.8	2623.3	2935.7	*3093.5*	3094.3	3017.8	2740.0	2297.4	1768.8
57.5°	2318.0	2330.6	2574.4	2961.7	3256.8	*3364.9*	3357.0	3245.0	2924.7	2470.2	1946.4
60°	2621.7	2650.9	2849.7	3209.5	3497.4	*3571.6*	3562.9	3414.6	3050.9	2571.2	2031.6
62.5°	2821.3	2835.5	3041.4	3387.0	3645.8	*3708.1*	3698.6	3560.6	3205.5	2747.1	2173.6
65°	2869.4	2893.1	3154.2	3505.3	3756.2	*3896.7*	3890.3	3816.2	3451.7	2877.3	2240.6
67.5°	*2811.1*	*2850.5*	*3170.8*	*3586.6*	*3888.8*	*4005.5*	*4002.4*	*3853.3*	*3398.8*	*2793.7*	*2156.2*
70°	2691.9	2725.8	3123.5	3577.9	3850.1	*3881.7*	3857.2	3686.8	3243.4	2654.8	2030.0
72.5°	2504.1	2561.7	2949.9	3379.9	3607.1	*3627.6*	3618.9	3410.7	3009.9	2415.8	1839.1
75°	2258.0	2328.2	2680.1	3028.0	3244.2	*3279.7*	3263.1	3080.9	2675.4	2116.8	1602.4
77.5°	1946.4	1985.8	2254.0	2584.6	2833.1	*2839.5*	2830.0	2626.4	2253.3	1772.8	1348.3
80°	1533.7	1557.4	1790.1	2065.5	2271.4	*2296.7*	2288.0	2150.7	1789.4	1402.8	1051.7
82.5°	1136.1	1120.3	1276.5	1502.2	1706.5	*1708.1*	1722.3	1570.0	1339.6	1017.8	752.7
85°	654.0	660.4	796.1	949.9	1073.8	*1145.6*	1144.8	1071.4	861.5	647.7	459.2
87.5°	182.2	196.5	282.4	411.0	467.1	*508.1*	493.1	445.0	359.8	203.6	116.8
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: P880236
CATALOG NUMBER: EMM2-HTN-VA5-740-U-WT4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3
2.5°	180.7	179.9	179.1	178.3	176.7	176.7	175.9	176.7	176.7	176.7	176.7
5°	185.4	184.6	182.2	180.7	178.3	176.7	175.9	175.9	175.9	175.9	175.9
7.5°	193.3	192.5	188.6	185.4	182.2	180.7	179.1	178.3	177.5	176.7	177.5
10°	205.1	202.0	198.0	193.3	188.6	186.2	183.8	183.0	182.2	181.5	181.5
12.5°	218.5	216.2	209.1	202.8	198.0	194.1	190.9	189.3	188.6	187.8	187.8
15°	236.7	232.0	222.5	214.6	207.5	202.8	199.6	198.0	197.2	196.5	196.5
17.5°	257.2	250.9	238.3	228.0	220.1	213.8	209.9	207.5	205.9	206.7	207.5
20°	280.9	270.6	256.4	243.8	233.5	226.4	222.5	219.3	217.8	218.5	219.3
22.5°	308.5	297.4	276.9	261.9	249.3	240.6	236.7	234.3	232.7	232.0	230.4
25°	340.0	325.8	302.2	281.7	266.7	258.0	253.3	251.7	250.1	248.5	248.5
27.5°	377.9	361.3	329.0	306.9	288.8	280.1	274.6	272.2	272.2	269.8	269.8
30°	422.1	400.0	360.6	331.4	313.2	302.2	295.9	295.1	293.5	295.9	295.9
32.5°	475.0	445.0	396.8	362.9	342.4	332.2	325.8	324.3	321.9	323.5	328.2
35°	541.2	502.6	445.0	404.7	379.5	369.2	361.3	360.6	356.6	360.6	354.2
37.5°	615.4	572.8	496.3	448.9	421.3	409.5	403.9	401.6	400.8	400.8	396.1
40°	706.1	654.8	561.7	503.4	471.8	457.6	452.1	451.3	449.7	455.2	449.7
42.5°	818.1	740.0	629.6	563.3	531.0	516.0	509.7	507.3	511.2	513.6	512.8
45°	942.8	858.4	716.4	639.8	602.8	587.8	579.1	576.7	578.3	578.3	586.2
47.5°	1086.4	987.0	815.8	723.5	689.5	671.4	665.9	658.0	654.0	652.5	665.9
50°	1236.3	1112.4	917.6	814.2	783.4	769.2	770.8	755.0	749.5	743.2	741.6
52.5°	1387.0	1246.6	1033.5	940.4	904.9	912.0	908.9	892.3	860.0	852.1	833.1
55°	1567.7	1398.0	1144.8	1033.5	1002.8	1008.3	1020.9	1020.9	1013.8	996.5	981.5
57.5°	1720.7	1523.5	1228.4	1089.5	1062.7	1076.9	1102.2	1121.1	1137.7	1150.3	1149.5
60°	1805.9	1600.8	1282.8	1132.2	1100.6	1128.2	1166.1	1198.4	1233.9	1271.0	1269.4
62.5°	1923.5	1708.9	1379.9	1207.9	1153.5	1162.1	1205.5	1261.5	1293.9	1324.7	1333.3
65°	1954.2	1728.6	1416.2	1261.5	1217.4	1218.9	1248.1	1293.9	1321.5	1329.4	1334.1
67.5°	*1871.4*	*1641.8*	*1356.2*	*1230.0*	*1206.3*	*1228.4*	*1275.7*	*1312.0*	*1316.0*	*1297.0*	*1295.5*
70°	1746.7	1535.3	1261.5	1155.8	1140.8	1174.8	1237.1	1280.5	1271.0	1232.3	1230.0
72.5°	1570.8	1374.4	1134.5	1058.0	1043.0	1085.6	1140.8	1186.6	1172.4	1143.2	1140.8
75°	1359.4	1175.5	980.7	923.9	923.1	969.6	1017.8	1045.4	1044.6	1024.1	1017.8
77.5°	1129.8	980.7	807.9	756.6	775.5	819.7	855.2	875.7	868.6	861.5	859.2
80°	884.4	751.9	623.3	592.5	621.7	636.7	674.6	673.0	676.9	661.9	673.0
82.5°	629.6	542.0	446.5	433.1	437.1	467.1	487.6	485.2	475.0	463.9	459.2
85°	381.9	333.7	286.4	267.5	280.9	278.5	291.1	280.9	274.6	269.0	273.8
87.5°	105.7	91.5	87.6	63.1	78.1	61.5	64.7	45.0	39.4	47.3	41.0
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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Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-5

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-740-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-740-U-WQ

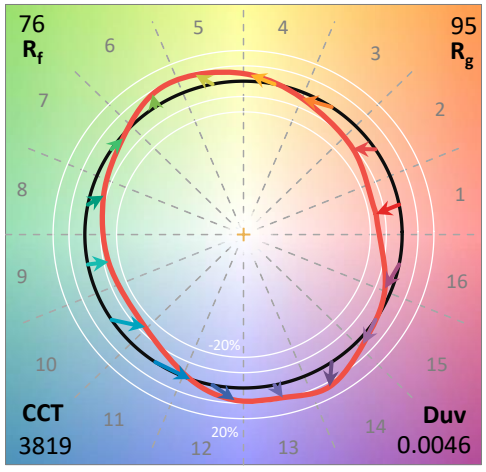
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-5
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-30-740-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	3819	CRI (Ra):	72.9		
CIE u':	0.2261	R1:	70.1	R9:	-21.5
CIE v':	0.5108	R2:	78.4	R10:	48.5
Duv:	0.0046	R3:	85.0	R11:	68.4
CIE x:	0.3926	R4:	72.9	R12:	39.0
CIE y:	0.3942	R5:	69.1	R13:	71.1
CIE z:	0.2132	R6:	69.2	R14:	91.3
Peak Wavelength (nm):	450	R7:	82.8	R15:	63.2
Dominant Wavelength (nm):	577	R8:	55.4		
Purity:	36.15483				
Rf:	75.6				
Rg:	94.8				



Test Conditions

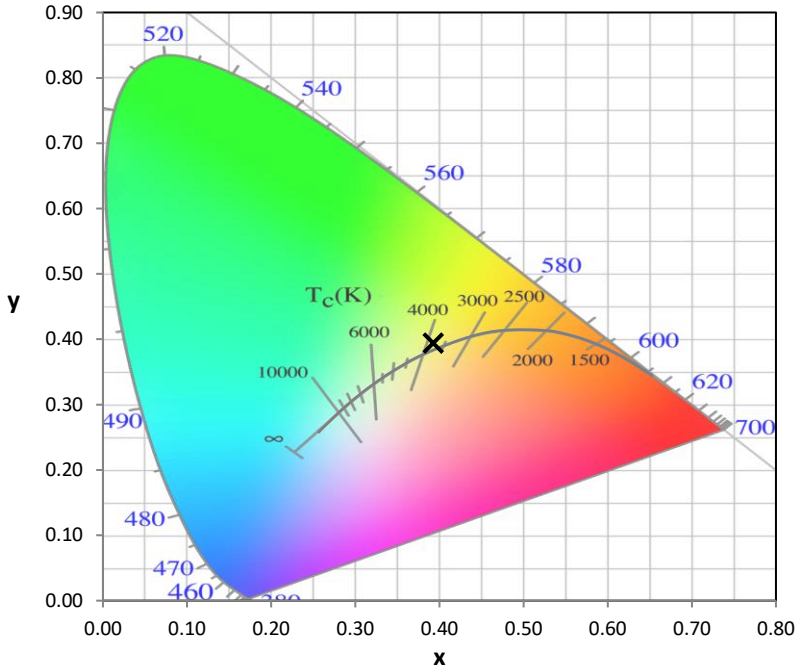
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-5

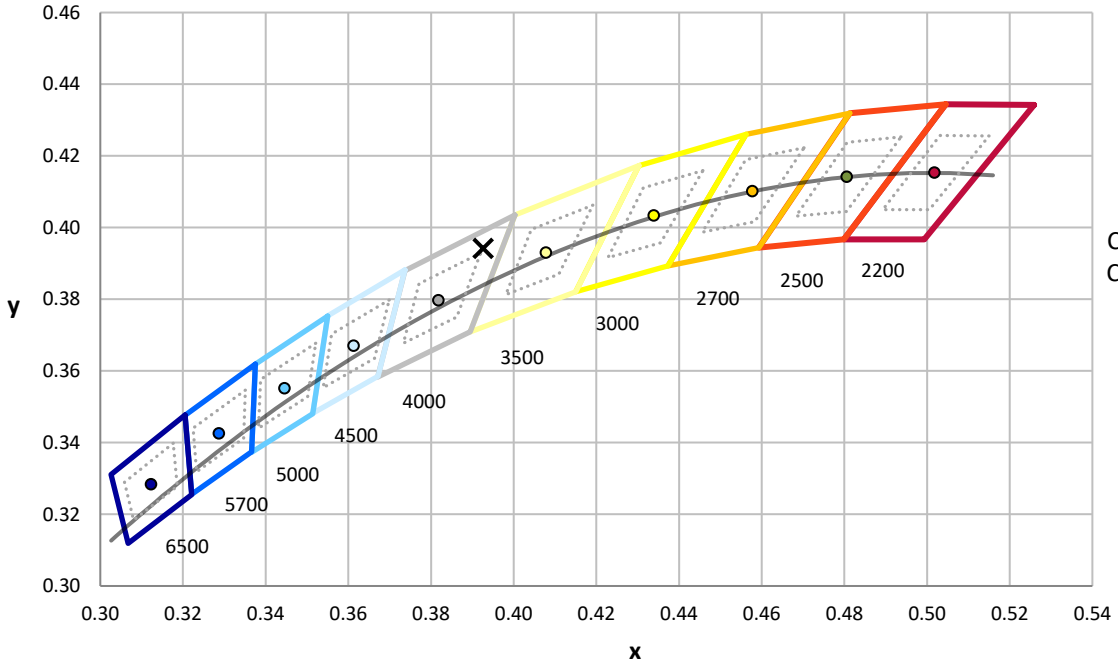
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-5

CIE 1931 Chromaticity Diagram



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

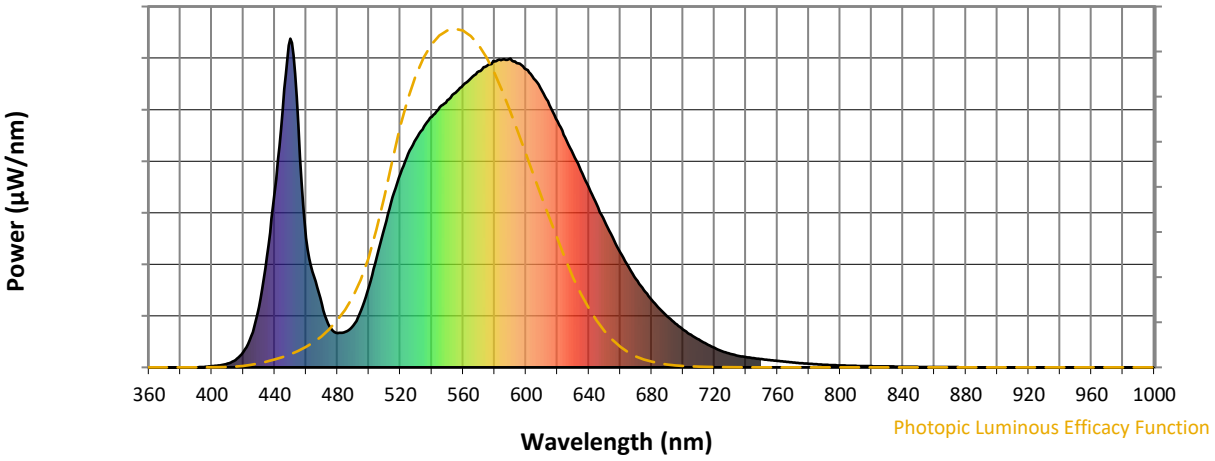


CCT = 3819K
CIE x = 0.3926
CIE y = 0.3942
Duv = 0.0046

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-5

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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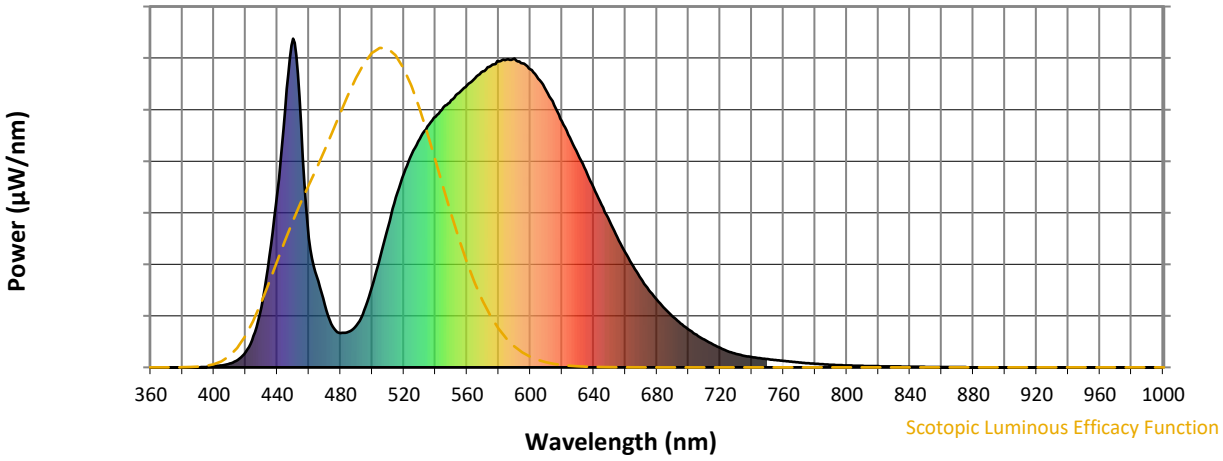
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.45**

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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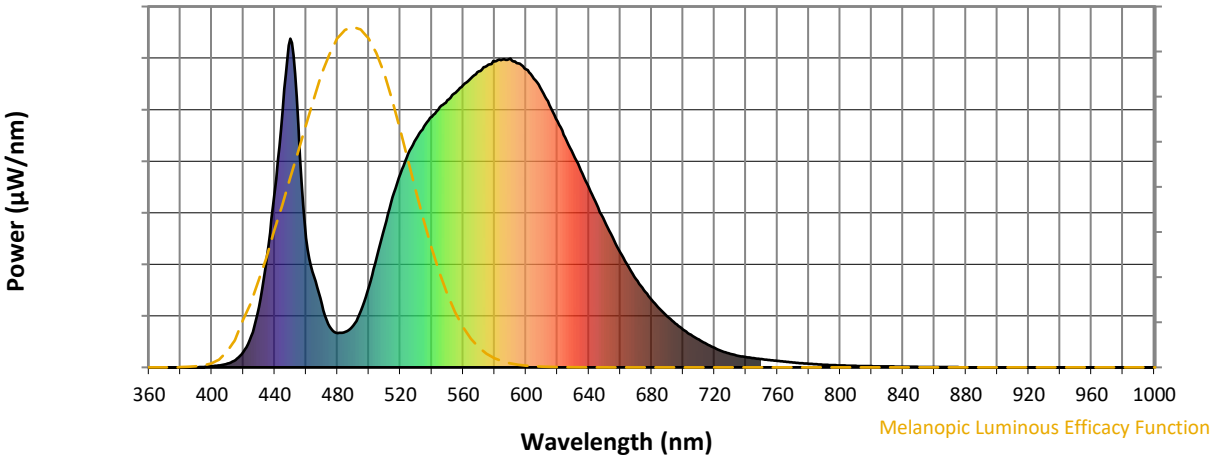
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.76**

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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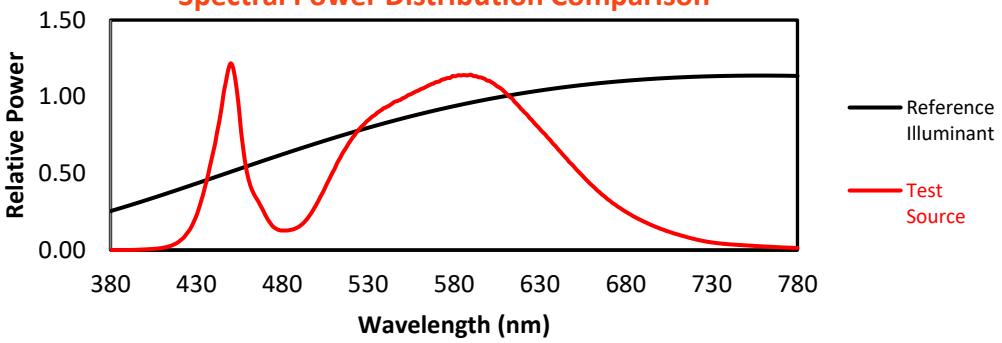
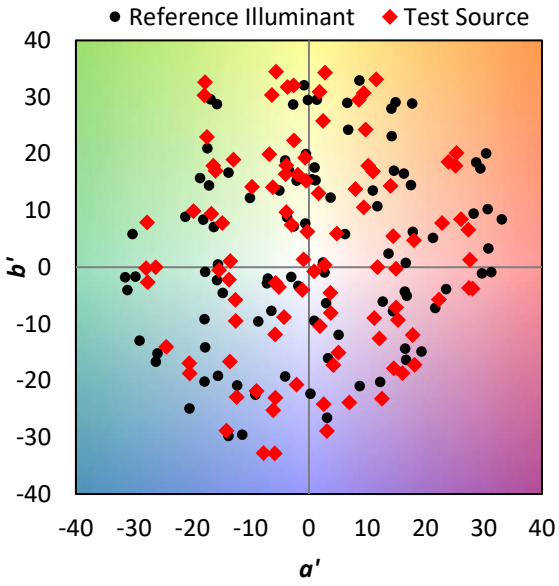
Summary

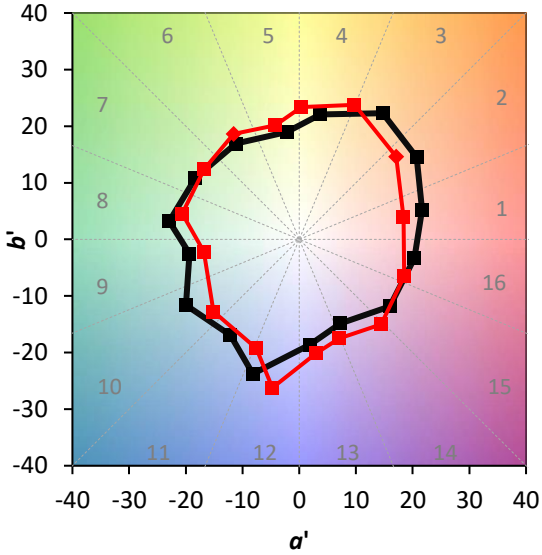
R_f = 75.6
R_g = 94.8
CIE R_a = 72.9
R_9 = -21.5

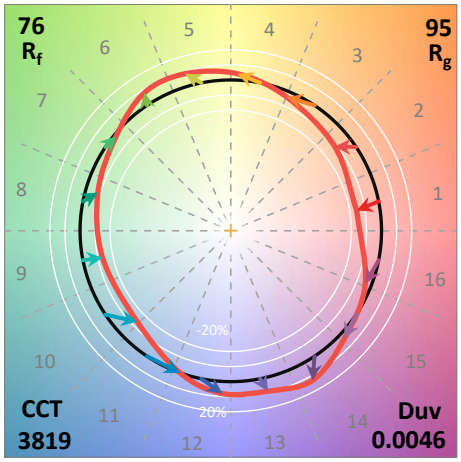
Spectral Power Distribution Comparison

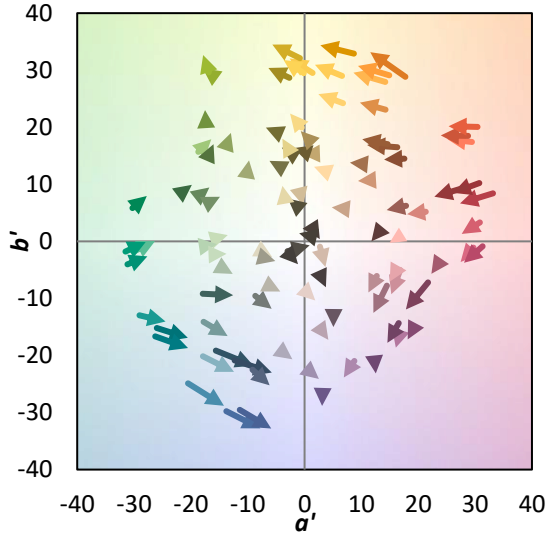


Color Vector Graphics









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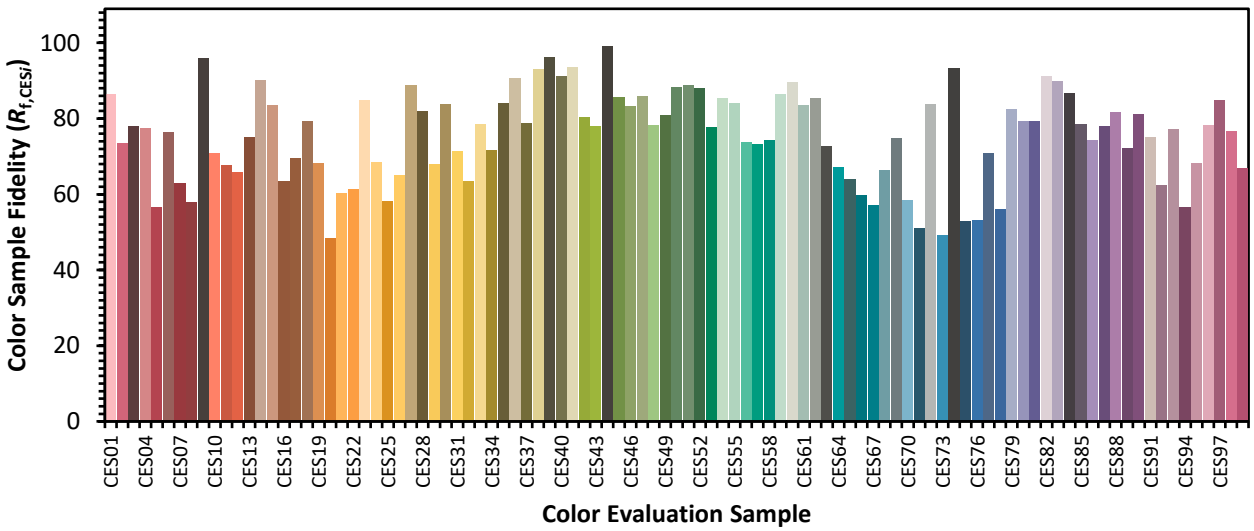
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 91
CES08 = 39	CES33 = 79	CES58 = 74	CES83 = 90
CES09 = 29	CES34 = 72	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 84	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 91	CES61 = 84	CES86 = 74
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 93	CES63 = 73	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 67	CES89 = 72
CES15 = 71	CES40 = 91	CES65 = 64	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 75
CES17 = 49	CES42 = 80	CES67 = 57	CES92 = 62
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 75	CES94 = 57
CES20 = 65	CES45 = 86	CES70 = 58	CES95 = 68
CES21 = 86	CES46 = 83	CES71 = 51	CES96 = 78
CES22 = 78	CES47 = 86	CES72 = 84	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 49	CES98 = 77
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 67
CES25 = 72	CES50 = 88	CES75 = 53	



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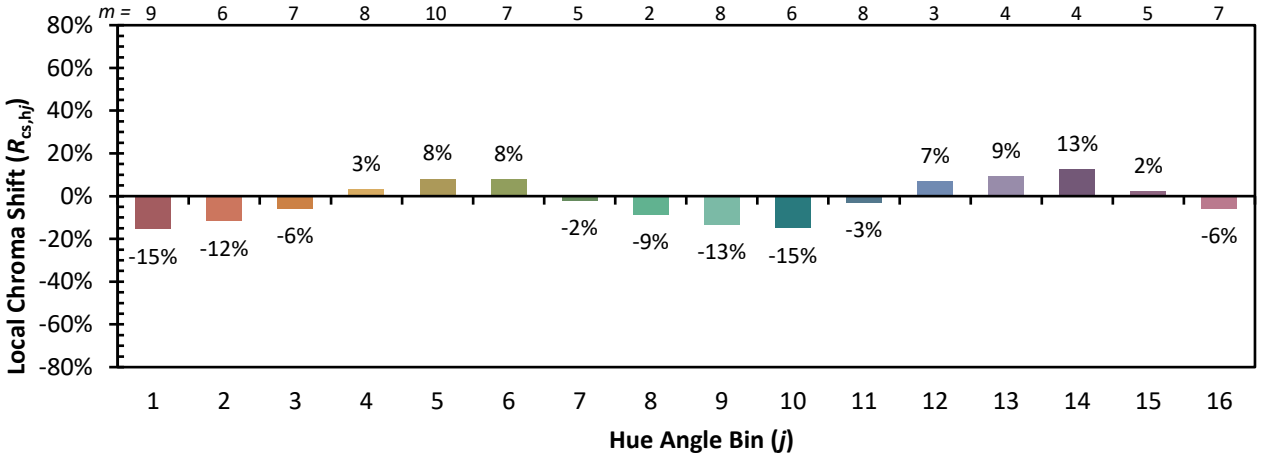
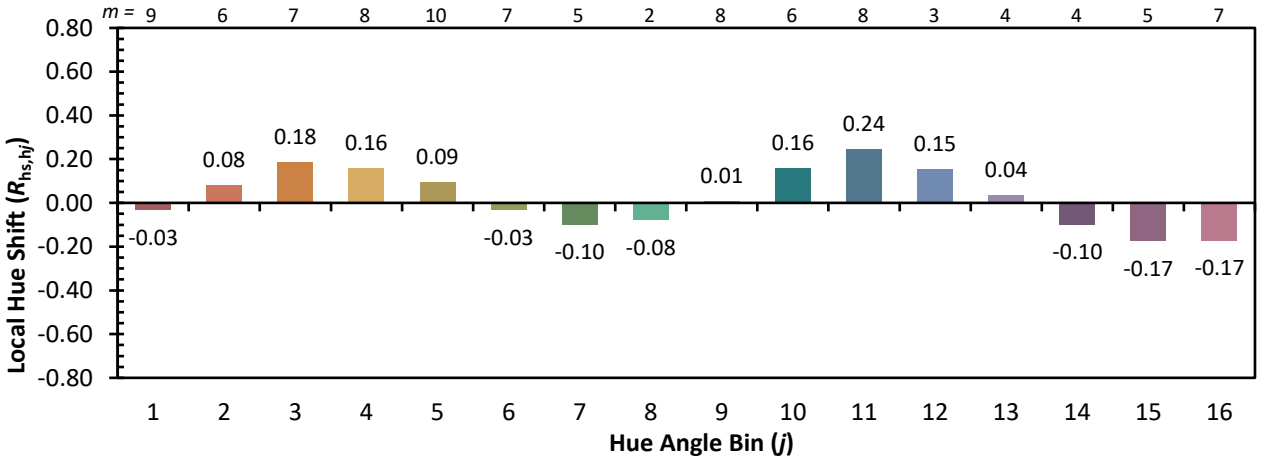
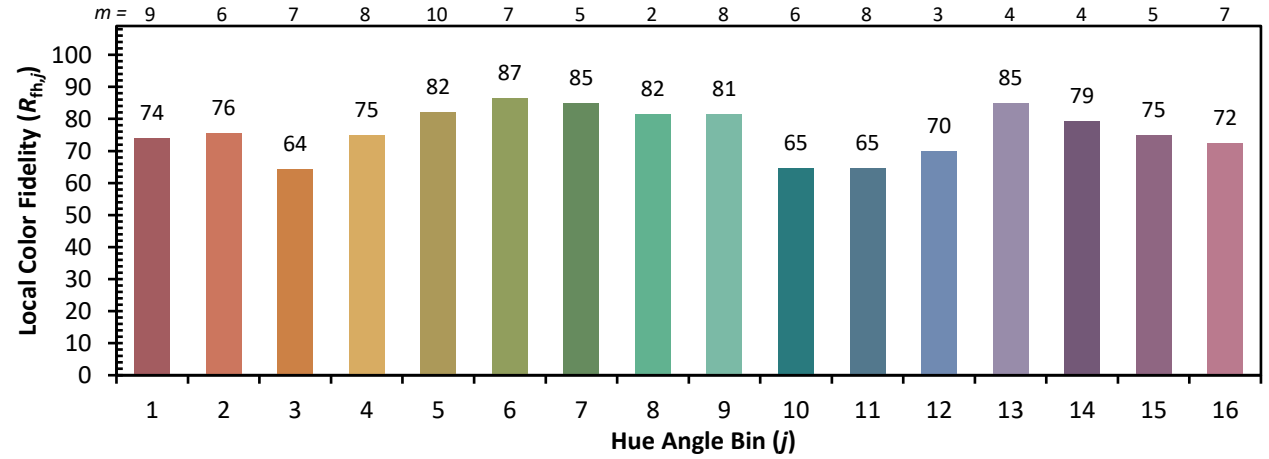
Color Rendition by Hue-Angle Bin







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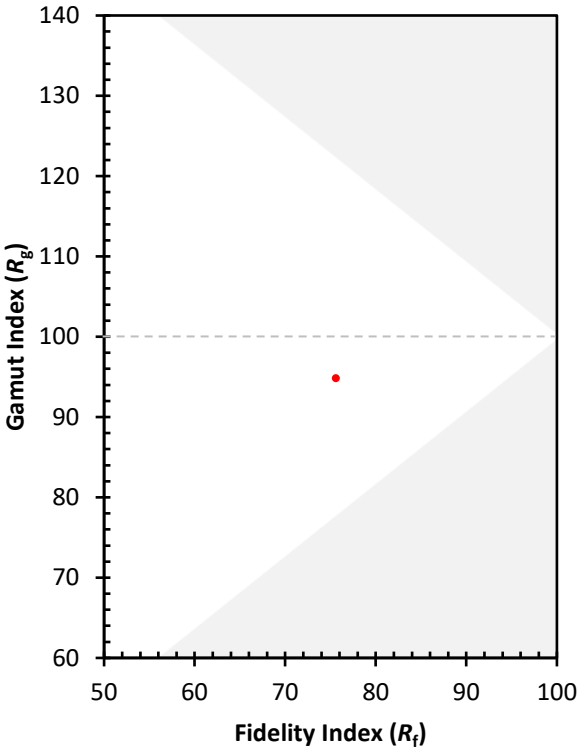
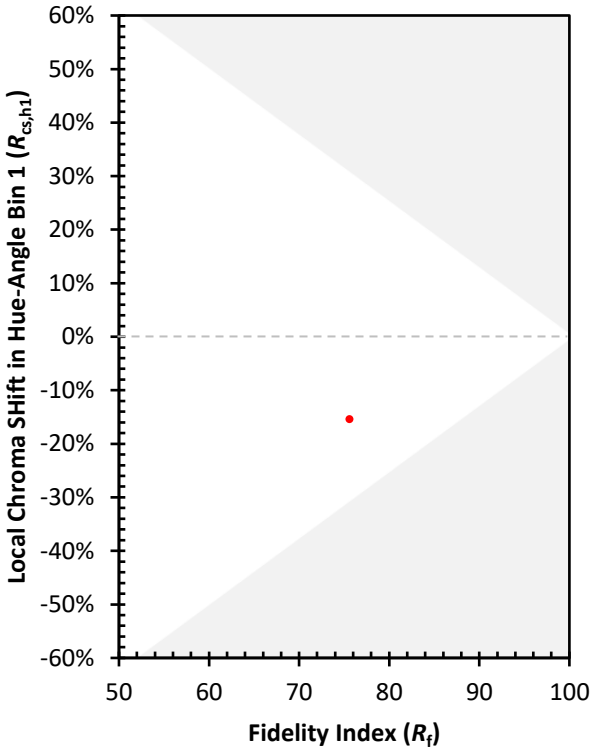
Measure Comparisons





(END OF REPORT)