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: P879758

Luminaire Tested: **EMM2-HTN-VA7-727-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:	P879758
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	10/01/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-VA7-727-U-WT4
Description:	EPIC MODERN TALL HOUSING 7W 70CRI 2700K WAVESTREAM FIXTURE w/ DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source:	(1) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11527 lumens
Efficiency:	N/A
Efficacy:	88.7 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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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REPORT NUMBER: P879758
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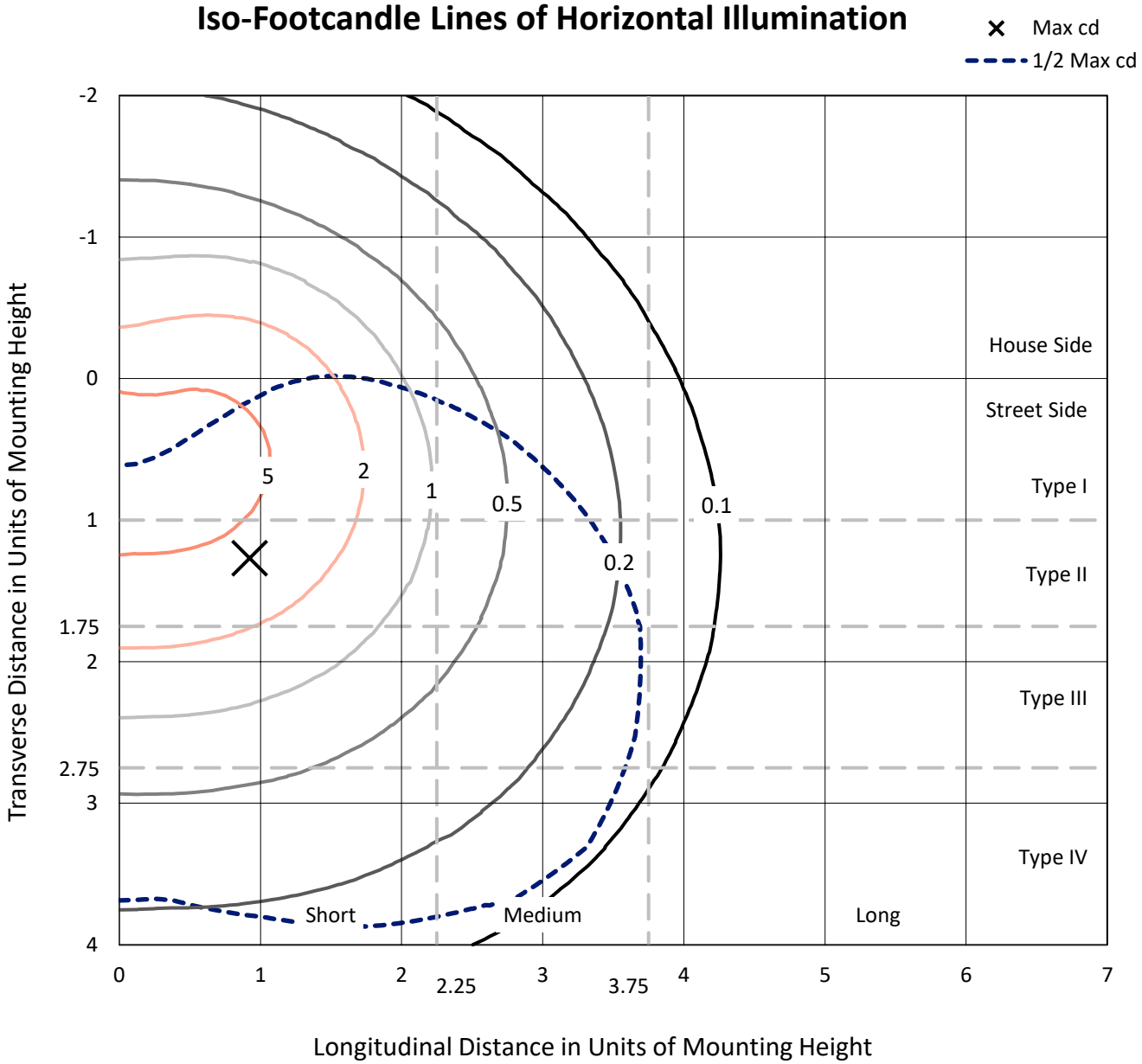
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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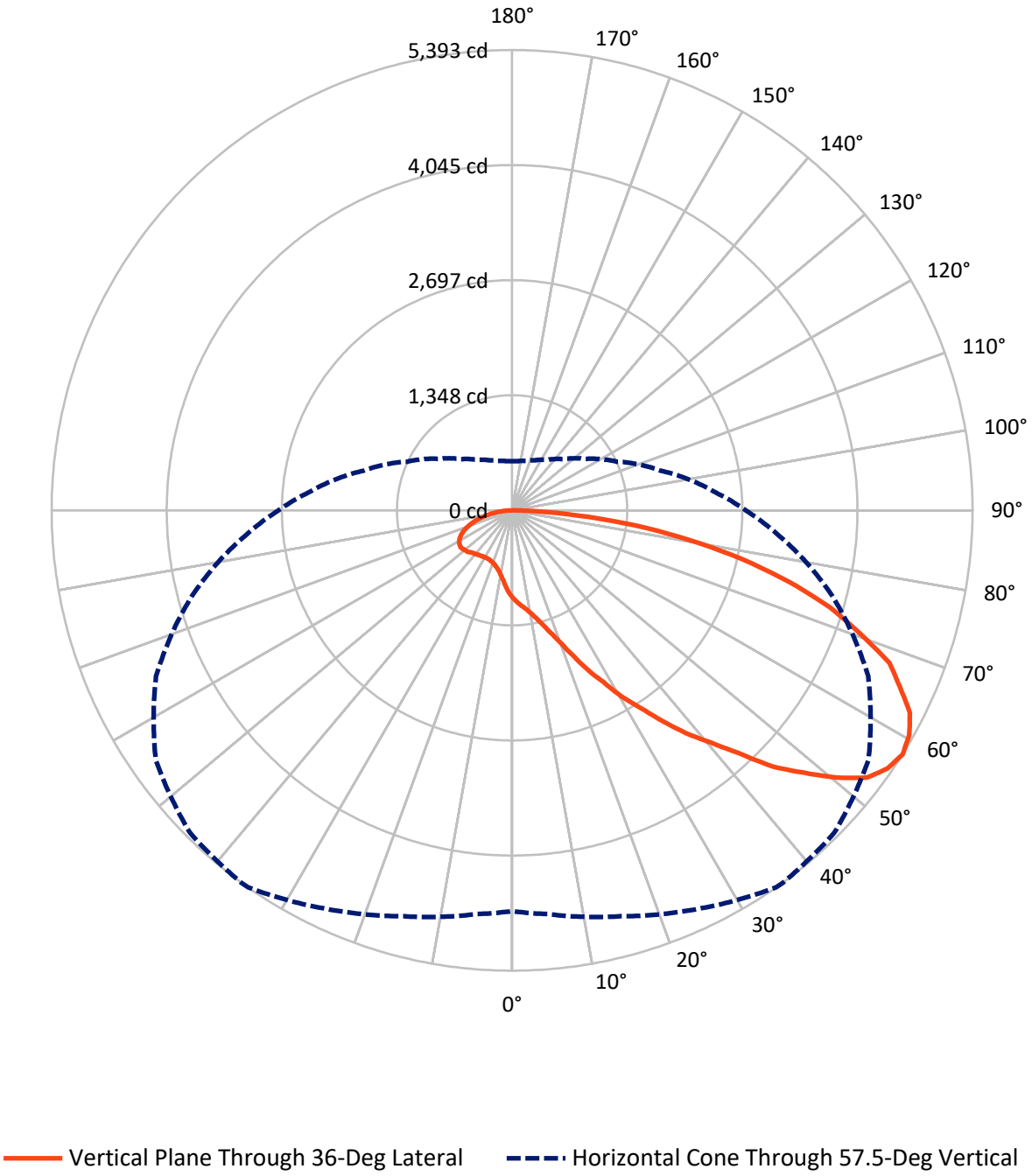
Luminous Intensity Polar Plot



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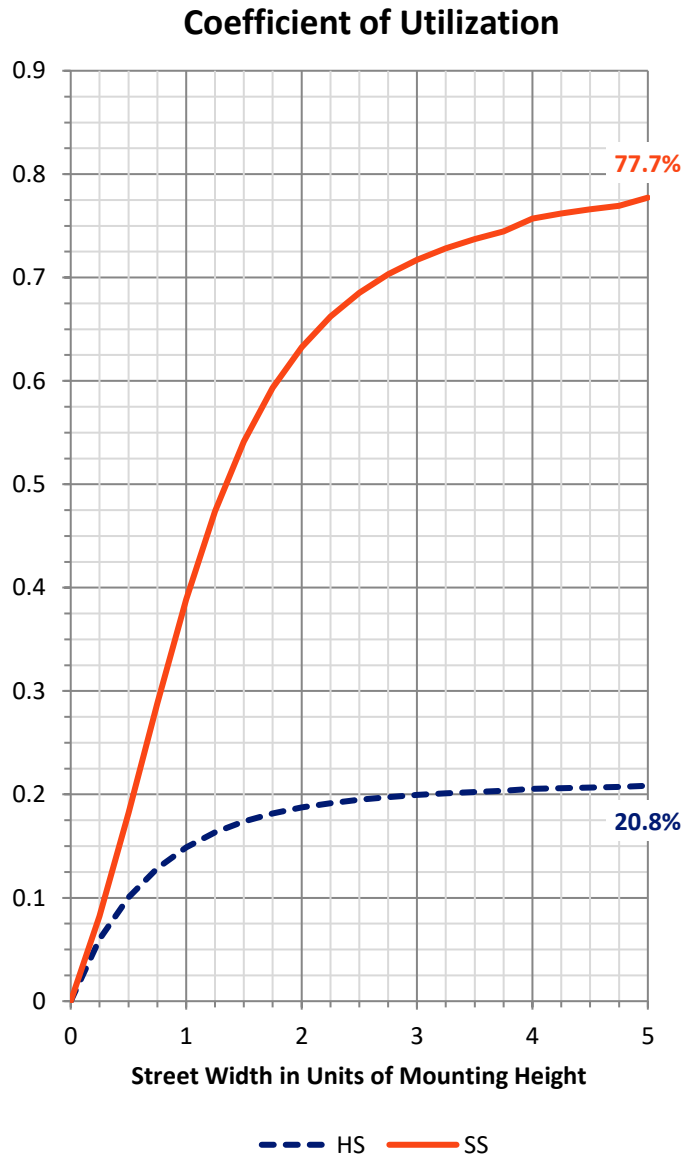
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2436.8	0.0	2436.8
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	9090.3	0.0	9090.3
	% Fixture	78.9	0.0	78.9
Total	Lumens	11527.0	0.0	11527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	0.8
10°-20°	303.0	2.6
20°-30°	628.6	5.5
30°-40°	1143.4	9.9
40°-50°	1864.1	16.2
50°-60°	2558.6	22.2
60°-70°	2605.1	22.6
70°-80°	1832.8	15.9
80°-90°	495.6	4.3
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°	11527.0	100.0
0°-180°	11527.0	100.0



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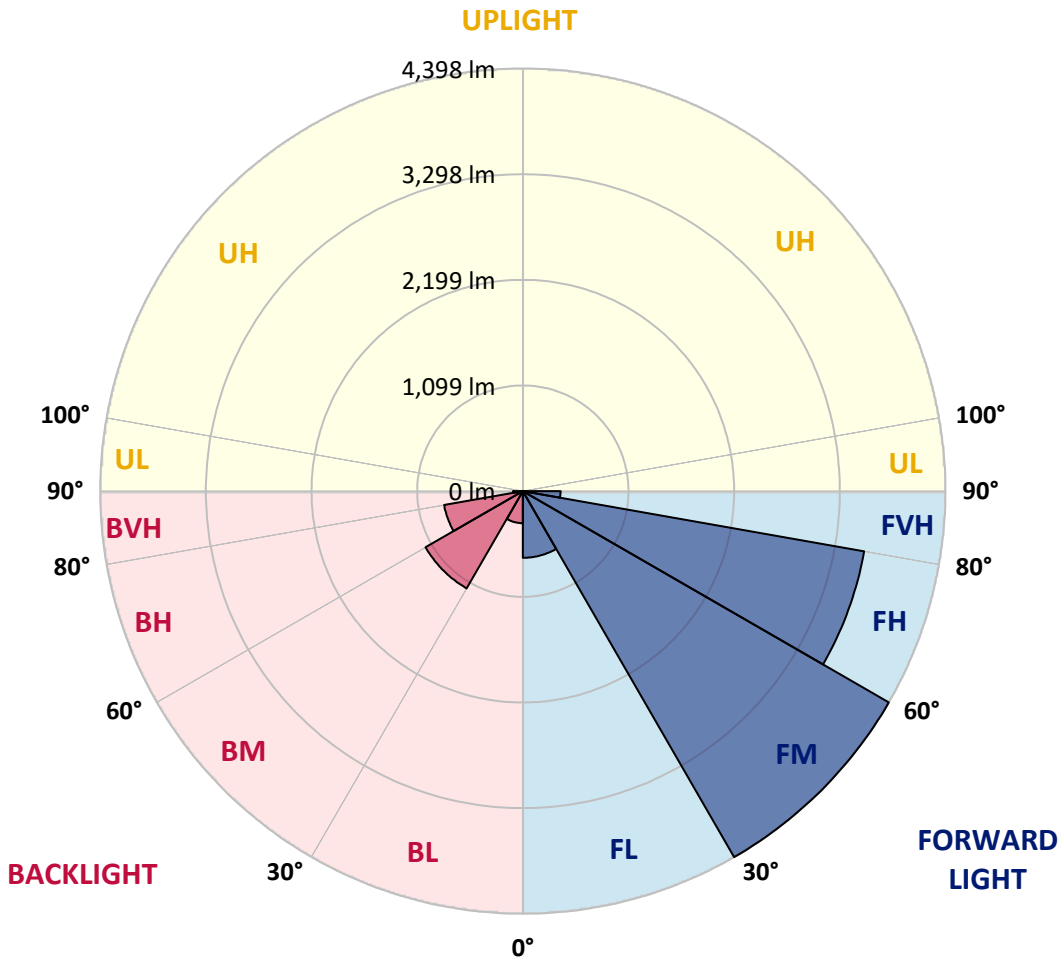
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	694.0	6.0			
FM	(30°-60°)	4397.6	38.2			
FH	(60°-80°)	3606.3	31.3			G2/5000
FVH	(80°-90°)	392.4	3.4			G3/500
BL	(0°-30°)	333.5	2.9	B1/500		
BM	(30°-60°)	1168.5	10.1	B2/2500		
BH	(60°-80°)	831.6	7.2	B2/1000		G2/1000
BVH	(80°-90°)	103.2	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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REPORT NUMBER: P879758
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1023.9	1023.9	1023.9	1023.9	1023.9	*1023.9*	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1081.3	1088.7	1082.1	1082.1	1072.1	*1075.5*	1064.6	1056.3	1046.4	1035.6	1024.8
5°	1137.8	1142.8	1140.3	1128.6	1116.2	*1120.3*	1102.9	1083.8	1063.8	1043.0	1022.3
7.5°	1200.1	1206.8	1199.3	1182.7	1166.0	*1166.0*	1144.4	1114.5	1084.6	1051.3	1017.3
10°	1269.9	1278.2	1269.1	1250.0	1222.6	*1229.2*	1195.1	1161.9	1117.0	1072.1	1025.6
12.5°	1365.5	1373.0	1357.2	1344.7	1311.5	*1306.5*	1270.8	1227.5	1173.5	1108.7	1047.2
15°	1466.9	1470.2	1474.4	1449.4	1409.6	*1408.7*	1367.2	1309.8	1242.5	1166.0	1087.9
17.5°	1599.0	1600.7	1585.8	1571.6	1529.2	*1526.7*	1486.8	1421.2	1329.8	1236.7	1141.1
20°	1731.2	1744.5	1740.3	1721.2	1690.5	*1677.2*	1633.1	1551.7	1455.3	1335.6	1210.9
22.5°	1909.1	1919.9	1922.3	1900.7	1876.6	*1865.8*	1817.6	1717.9	1590.7	1449.4	1308.2
25°	2109.3	2110.2	2120.2	2112.7	2070.3	*2077.8*	2012.9	1924.8	1776.1	1598.2	1419.5
27.5°	2327.1	2332.1	2341.2	2329.6	2290.5	*2280.6*	2211.6	2112.7	1954.8	1757.8	1535.1
30°	2524.1	2549.0	2544.0	2556.5	2545.7	*2532.4*	2464.2	2336.2	2124.3	1904.9	1678.0
32.5°	2778.4	2764.3	2773.4	2799.2	2756.8	*2757.6*	2687.8	2555.7	2348.7	2089.4	1798.5
35°	2973.7	3009.4	3028.6	3041.0	3021.9	*3030.2*	2974.5	2815.8	2567.3	2271.4	1940.6
37.5°	3202.3	3239.7	3257.1	3306.1	3327.7	*3314.5*	3257.9	3104.2	2803.3	2461.7	2103.5
40°	3467.4	3492.3	3533.0	3576.2	3586.2	*3572.1*	3514.7	3337.7	3053.5	2674.5	2250.6
42.5°	3750.8	3717.5	3832.2	3855.5	3913.7	*3885.4*	3868.8	3628.6	3287.9	2891.4	2406.1
45°	4000.1	4017.6	4135.6	4252.8	4315.1	*4284.4*	4214.5	4020.9	3624.5	3105.8	2575.6
47.5°	4226.2	4305.1	4378.3	4552.0	4612.6	*4591.9*	4537.8	4299.3	3917.8	3360.2	2770.1
50°	4478.0	4497.1	4639.2	4803.8	4946.7	*4923.5*	4869.5	4633.4	4165.5	3592.0	2910.5
52.5°	4686.6	4632.6	4816.3	5051.5	5218.5	*5201.9*	5123.8	4872.8	4434.0	3745.8	3022.7
55°	4692.4	4757.3	4895.2	5162.0	5343.2	*5337.4*	5299.1	5028.2	4575.2	3860.5	3095.9
57.5°	*4695.7*	*4748.1*	*4923.5*	*5152.0*	*5391.4*	*5393.0*	*5339.0*	*5095.5*	*4601.0*	*3882.9*	*3107.5*
60°	4606.0	4625.9	4867.0	5114.6	5334.0	*5344.0*	5290.0	5077.2	4554.5	3845.5	3061.8
62.5°	4443.1	4478.0	4718.2	4957.5	5207.7	*5228.5*	5174.5	4975.0	4454.7	3763.2	2973.7
65°	4222.0	4230.3	4439.8	4764.7	4954.2	*4990.0*	4980.8	4764.7	4293.5	3610.3	2840.7
67.5°	3914.5	3909.5	4168.0	4437.3	4706.6	*4763.9*	4717.4	4561.9	4028.4	3389.3	2676.2
70°	3524.7	3593.7	3825.6	4105.7	4287.7	*4319.3*	4339.2	4168.8	3761.6	3171.5	2460.9
72.5°	3135.8	3154.0	3338.6	3666.0	3867.1	*3891.2*	3924.5	3748.3	3399.2	2813.3	2195.0
75°	2654.6	2648.7	2849.0	3108.3	3283.7	*3350.2*	3363.5	3224.7	2934.6	2449.3	1904.1
77.5°	2131.0	2154.2	2310.5	2530.7	2705.3	*2754.3*	2809.1	2653.7	2416.0	2034.5	1552.5
80°	1565.0	1563.3	1705.4	1913.2	2114.3	*2108.5*	2127.6	2093.6	1847.5	1579.9	1201.8
82.5°	1030.6	1009.0	1134.5	1271.6	1430.3	*1445.3*	1503.5	1468.6	1321.5	1101.2	836.1
85°	423.9	419.7	533.6	616.7	745.5	*763.0*	813.7	788.7	732.2	611.7	462.1
87.5°	10.0	10.0	10.0	41.6	121.3	*172.0*	173.7	221.1	226.9	194.5	143.0
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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REPORT NUMBER: P879758
CATALOG NUMBER: EMM2-HTN-VA7-727-U-WT4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1019.8	1013.9	1001.5	992.3	984.0	974.9	969.9	964.1	961.6	960.8	954.1
5°	1010.6	998.2	975.7	953.3	933.3	916.7	900.1	887.6	876.0	870.2	867.7
7.5°	999.0	980.7	946.6	915.0	881.0	854.4	827.8	808.7	801.2	794.5	788.7
10°	1000.7	976.5	927.5	881.8	841.1	805.3	772.1	746.3	730.5	715.6	718.1
12.5°	1014.8	984.0	924.2	865.2	814.5	767.9	725.6	694.8	671.5	655.7	654.1
15°	1043.9	1005.6	931.7	861.9	798.7	741.3	693.1	651.6	623.3	606.7	603.4
17.5°	1090.4	1044.7	950.8	870.2	792.9	726.4	669.9	623.3	587.6	569.3	565.2
20°	1152.7	1092.9	984.9	881.8	790.4	713.9	650.8	599.2	562.7	538.6	535.2
22.5°	1230.9	1158.6	1023.1	899.3	795.4	708.9	638.3	581.8	539.4	519.4	516.1
25°	1329.8	1240.0	1074.6	925.0	803.7	706.4	628.3	569.3	526.1	503.7	502.0
27.5°	1426.2	1323.1	1125.3	954.9	817.8	709.8	625.0	561.0	516.9	494.5	491.2
30°	1537.5	1415.4	1191.8	993.2	834.4	715.6	625.0	557.7	512.0	489.5	487.0
32.5°	1668.9	1508.5	1255.0	1033.9	856.9	727.2	628.3	556.0	511.1	487.9	485.4
35°	1780.2	1617.3	1320.6	1074.6	881.0	738.9	636.6	561.0	512.0	490.4	486.2
37.5°	1904.1	1718.7	1390.4	1111.2	902.6	750.5	641.6	566.0	517.8	494.5	493.7
40°	2041.2	1829.3	1460.3	1158.6	931.7	769.6	654.1	572.6	526.1	502.0	500.3
42.5°	2175.8	1948.1	1535.9	1211.8	956.6	782.9	663.2	585.1	533.6	514.5	509.5
45°	2330.4	2068.6	1617.3	1250.0	987.4	803.7	677.4	595.9	550.2	526.9	526.1
47.5°	2454.3	2175.0	1685.5	1298.2	1027.2	828.6	699.8	611.7	567.6	541.9	543.5
50°	2589.7	2273.1	1730.4	1339.7	1040.5	836.9	708.1	633.3	579.3	560.2	555.2
52.5°	2673.7	2349.5	1783.6	1349.7	1060.5	855.2	721.4	640.8	594.2	573.5	566.8
55°	2740.2	2396.1	1802.7	1362.2	1067.1	856.9	728.9	649.1	602.6	578.4	579.3
57.5°	*2736.8*	*2394.4*	*1799.3*	*1349.7*	*1050.5*	*846.9*	*722.2*	*647.4*	*598.4*	*576.8*	*576.8*
60°	2696.9	2344.6	1755.3	1309.8	1022.3	823.6	705.6	630.0	586.8	569.3	566.8
62.5°	2603.9	2260.6	1696.3	1260.0	981.5	793.7	684.0	606.7	571.0	552.7	548.5
65°	2481.7	2153.4	1590.7	1193.5	921.7	749.7	647.4	583.4	547.7	528.6	526.1
67.5°	2325.4	2002.1	1471.1	1102.0	855.2	700.6	606.7	548.5	512.8	499.5	499.5
70°	2130.1	1823.4	1353.0	1000.7	777.9	635.8	555.2	502.8	474.6	458.8	458.8
72.5°	1895.8	1628.1	1198.5	890.9	692.3	566.8	493.7	454.6	428.0	418.9	413.1
75°	1637.3	1394.6	1021.4	755.5	590.9	488.7	430.5	394.8	374.8	367.3	365.7
77.5°	1353.9	1144.4	822.8	620.0	490.4	407.2	359.0	332.4	319.1	308.3	307.5
80°	1037.2	872.7	630.8	483.7	378.2	312.5	283.4	265.1	256.0	252.7	249.3
82.5°	712.3	617.5	441.3	325.8	264.3	223.6	208.6	200.3	189.5	190.3	188.7
85°	399.8	339.1	236.9	189.5	157.1	139.6	133.8	128.8	130.5	127.2	128.8
87.5°	120.5	112.2	80.6	69.0	59.8	60.7	65.7	68.2	69.0	69.8	71.5
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: SP1-2407-176-12

Test Date: 10/23/2024

Luminaire Tested: MEM2-HTN-VA-130-727-U-RW

Data in this report applies to families of products including MEM2-HTN-VA-130-727-U-RW

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

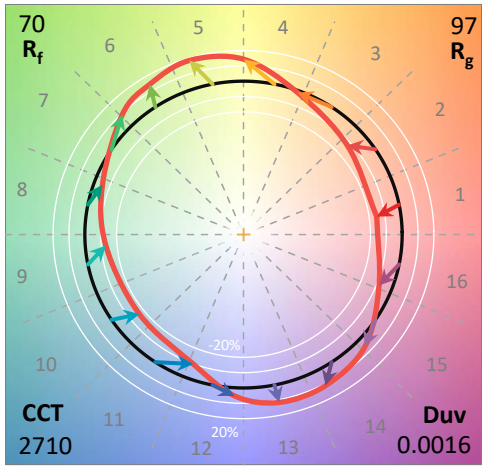
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-12
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/24/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-VA-130-727-U-RW**
Description:	EPIC MODERN VISUAL COMFORT 130W WAVESTREAM RECTANGULAR WIDE

Spectral Parameters

CCT (K):	2710	CRI (Ra):	70.4		
CIE u':	0.2616	R1:	67.3	R9:	-24.6
CIE v':	0.5295	R2:	79.1	R10:	51.3
Duv:	0.0016	R3:	89.5	R11:	61.0
CIE x:	0.4619	R4:	67.6	R12:	41.2
CIE y:	0.4154	R5:	64.7	R13:	68.7
CIE z:	0.1227	R6:	69.6	R14:	93.5
Peak Wavelength (nm):	601	R7:	78.9	R15:	60.6
Dominant Wavelength (nm):	583	R8:	46.2		
Purity:	63.3407				

Rf:	70.4
Rg:	96.7



Test Conditions

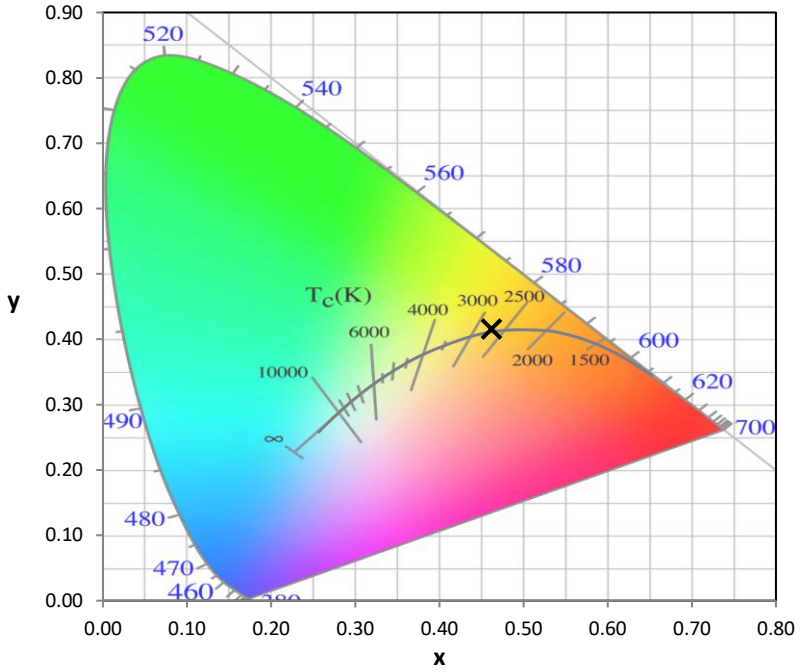
Stabilization Time:	47M
Operation Time:	1H 47M
Sphere Temperature (°C):	24.4

REPORT NUMBER: SP1-2407-176-12

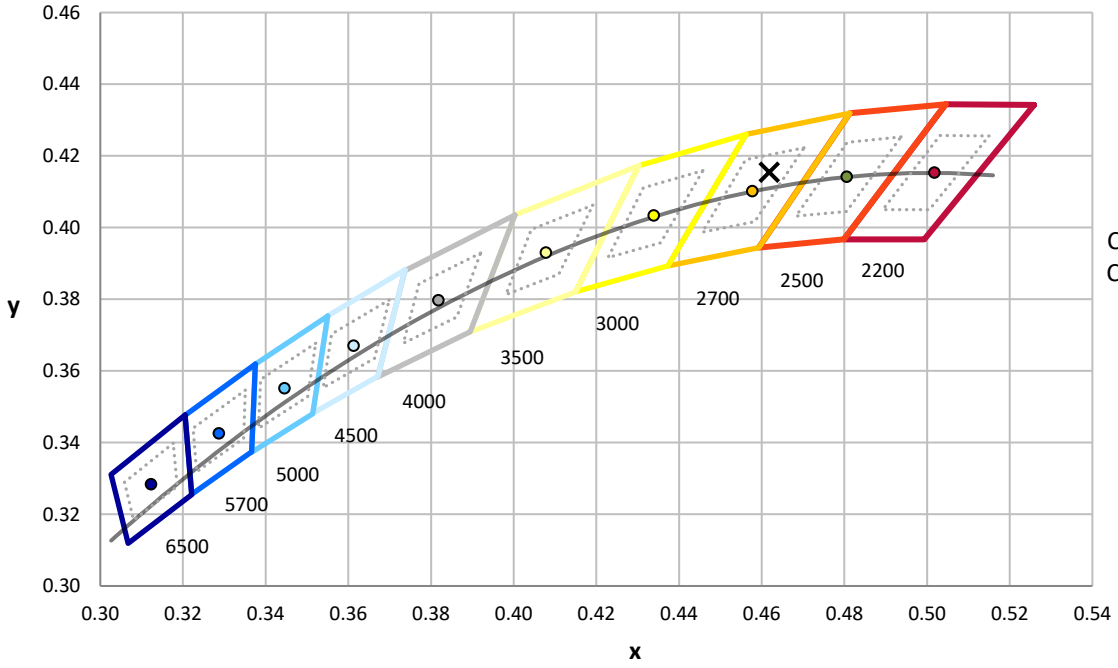
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2407-176-12

CIE 1931 Chromaticity Diagram



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

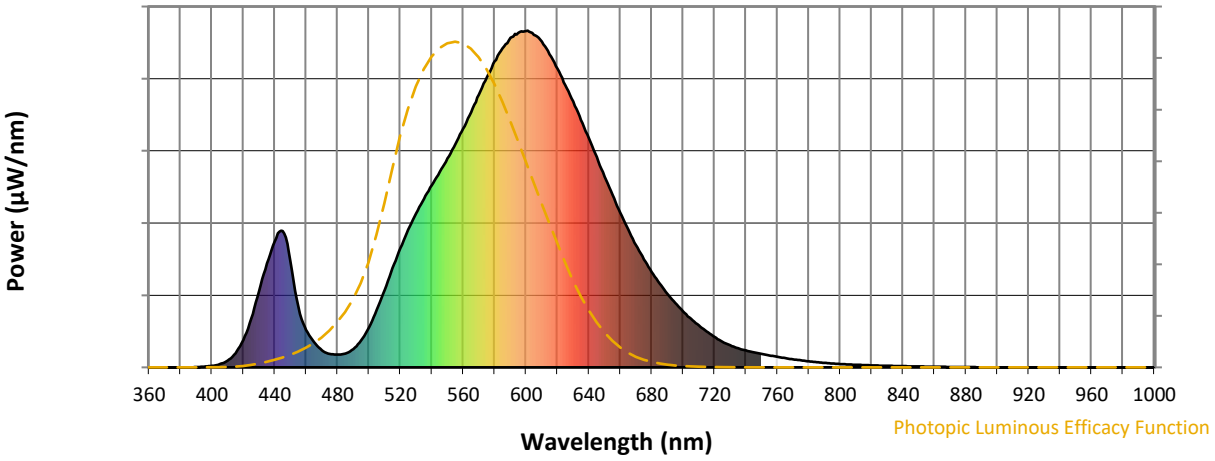


CCT = 2710K
CIE x = 0.4619
CIE y = 0.4154
Duv = 0.0016

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-12

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	54	NR	620	887	NR	750	40	NR	880	1	NR
365	0	NR	495	80	NR	625	838	NR	755	35	NR	885	1	NR
370	0	NR	500	119	NR	630	790	NR	760	31	NR	890	0	NR
375	0	NR	505	171	NR	635	735	NR	765	27	NR	895	0	NR
380	0	NR	510	230	NR	640	681	NR	770	24	NR	900	0	NR
385	0	NR	515	295	NR	645	624	NR	775	21	NR	905	0	NR
390	1	NR	520	354	NR	650	567	NR	780	18	NR	910	0	NR
395	2	NR	525	408	NR	655	512	NR	785	15	NR	915	0	NR
400	5	NR	530	457	NR	660	459	NR	790	13	NR	920	0	NR
405	9	NR	535	500	NR	665	410	NR	795	12	NR	925	0	NR
410	20	NR	540	541	NR	670	363	NR	800	10	NR	930	0	NR
415	42	NR	545	581	NR	675	320	NR	805	9	NR	935	0	NR
420	81	NR	550	620	NR	680	283	NR	810	8	NR	940	0	NR
425	145	NR	555	664	NR	685	249	NR	815	7	NR	945	0	NR
430	225	NR	560	709	NR	690	219	NR	820	6	NR	950	0	NR
435	309	NR	565	758	NR	695	191	NR	825	5	NR	955	0	NR
440	373	NR	570	810	NR	700	166	NR	830	5	NR	960	0	NR
445	405	NR	575	861	NR	705	144	NR	835	4	NR	965	0	NR
450	316	NR	580	908	NR	710	124	NR	840	4	NR	970	0	NR
455	180	NR	585	948	NR	715	106	NR	845	3	NR	975	0	NR
460	111	NR	590	978	NR	720	90	NR	850	3	NR	980	0	NR
465	75	NR	595	993	NR	725	76	NR	855	2	NR	985	0	NR
470	50	NR	600	999	NR	730	65	NR	860	2	NR	990	0	NR
475	40	NR	605	988	NR	735	57	NR	865	2	NR	995	0	NR
480	38	NR	610	967	NR	740	50	NR	870	1	NR	1000	0	NR
485	41	NR	615	930	NR	745	45	NR	875	1	NR			

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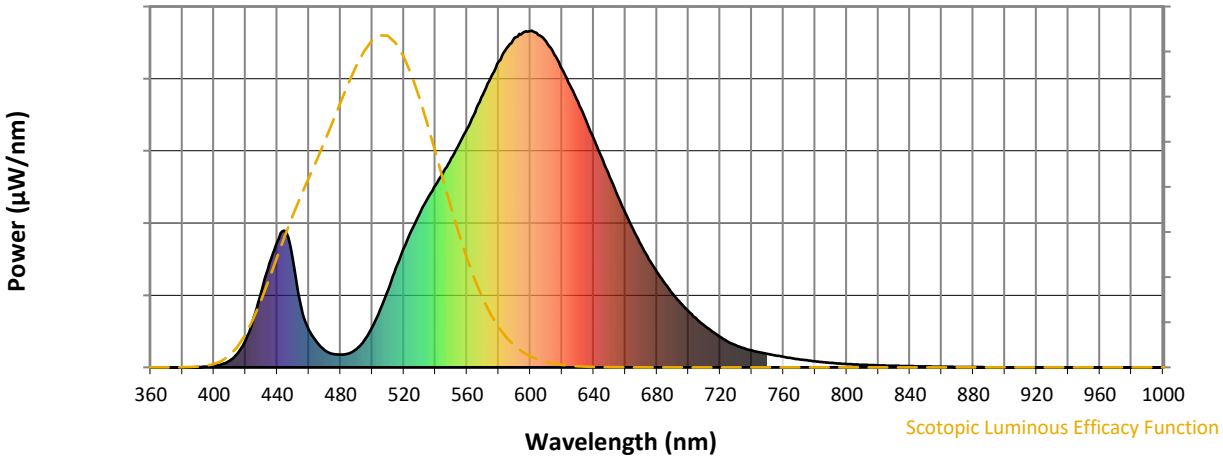
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.02**

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	54	NR	620	887	NR	750	40	NR	880	1	NR
365	0	NR	495	80	NR	625	838	NR	755	35	NR	885	1	NR
370	0	NR	500	119	NR	630	790	NR	760	31	NR	890	0	NR
375	0	NR	505	171	NR	635	735	NR	765	27	NR	895	0	NR
380	0	NR	510	230	NR	640	681	NR	770	24	NR	900	0	NR
385	0	NR	515	295	NR	645	624	NR	775	21	NR	905	0	NR
390	1	NR	520	354	NR	650	567	NR	780	18	NR	910	0	NR
395	2	NR	525	408	NR	655	512	NR	785	15	NR	915	0	NR
400	5	NR	530	457	NR	660	459	NR	790	13	NR	920	0	NR
405	9	NR	535	500	NR	665	410	NR	795	12	NR	925	0	NR
410	20	NR	540	541	NR	670	363	NR	800	10	NR	930	0	NR
415	42	NR	545	581	NR	675	320	NR	805	9	NR	935	0	NR
420	81	NR	550	620	NR	680	283	NR	810	8	NR	940	0	NR
425	145	NR	555	664	NR	685	249	NR	815	7	NR	945	0	NR
430	225	NR	560	709	NR	690	219	NR	820	6	NR	950	0	NR
435	309	NR	565	758	NR	695	191	NR	825	5	NR	955	0	NR
440	373	NR	570	810	NR	700	166	NR	830	5	NR	960	0	NR
445	405	NR	575	861	NR	705	144	NR	835	4	NR	965	0	NR
450	316	NR	580	908	NR	710	124	NR	840	4	NR	970	0	NR
455	180	NR	585	948	NR	715	106	NR	845	3	NR	975	0	NR
460	111	NR	590	978	NR	720	90	NR	850	3	NR	980	0	NR
465	75	NR	595	993	NR	725	76	NR	855	2	NR	985	0	NR
470	50	NR	600	999	NR	730	65	NR	860	2	NR	990	0	NR
475	40	NR	605	988	NR	735	57	NR	865	2	NR	995	0	NR
480	38	NR	610	967	NR	740	50	NR	870	1	NR	1000	0	NR
485	41	NR	615	930	NR	745	45	NR	875	1	NR			

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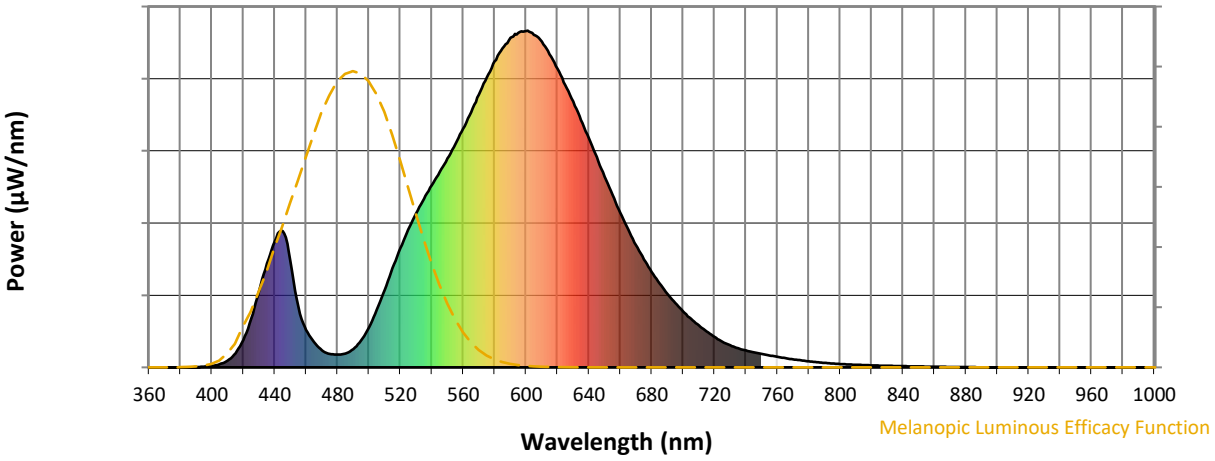
Melanopic Flux vs. Wavelength



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	54	NR	620	887	NR	750	40	NR	880	1	NR
365	0	NR	495	80	NR	625	838	NR	755	35	NR	885	1	NR
370	0	NR	500	119	NR	630	790	NR	760	31	NR	890	0	NR
375	0	NR	505	171	NR	635	735	NR	765	27	NR	895	0	NR
380	0	NR	510	230	NR	640	681	NR	770	24	NR	900	0	NR
385	0	NR	515	295	NR	645	624	NR	775	21	NR	905	0	NR
390	1	NR	520	354	NR	650	567	NR	780	18	NR	910	0	NR
395	2	NR	525	408	NR	655	512	NR	785	15	NR	915	0	NR
400	5	NR	530	457	NR	660	459	NR	790	13	NR	920	0	NR
405	9	NR	535	500	NR	665	410	NR	795	12	NR	925	0	NR
410	20	NR	540	541	NR	670	363	NR	800	10	NR	930	0	NR
415	42	NR	545	581	NR	675	320	NR	805	9	NR	935	0	NR
420	81	NR	550	620	NR	680	283	NR	810	8	NR	940	0	NR
425	145	NR	555	664	NR	685	249	NR	815	7	NR	945	0	NR
430	225	NR	560	709	NR	690	219	NR	820	6	NR	950	0	NR
435	309	NR	565	758	NR	695	191	NR	825	5	NR	955	0	NR
440	373	NR	570	810	NR	700	166	NR	830	5	NR	960	0	NR
445	405	NR	575	861	NR	705	144	NR	835	4	NR	965	0	NR
450	316	NR	580	908	NR	710	124	NR	840	4	NR	970	0	NR
455	180	NR	585	948	NR	715	106	NR	845	3	NR	975	0	NR
460	111	NR	590	978	NR	720	90	NR	850	3	NR	980	0	NR
465	75	NR	595	993	NR	725	76	NR	855	2	NR	985	0	NR
470	50	NR	600	999	NR	730	65	NR	860	2	NR	990	0	NR
475	40	NR	605	988	NR	735	57	NR	865	2	NR	995	0	NR
480	38	NR	610	967	NR	740	50	NR	870	1	NR	1000	0	NR
485	41	NR	615	930	NR	745	45	NR	875	1	NR			

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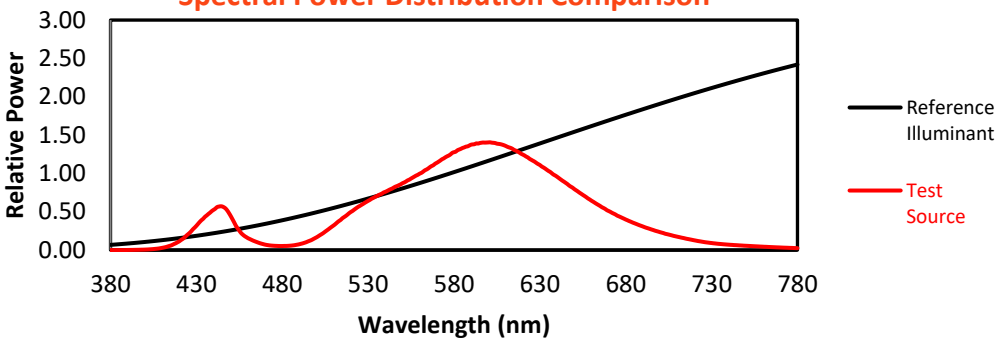
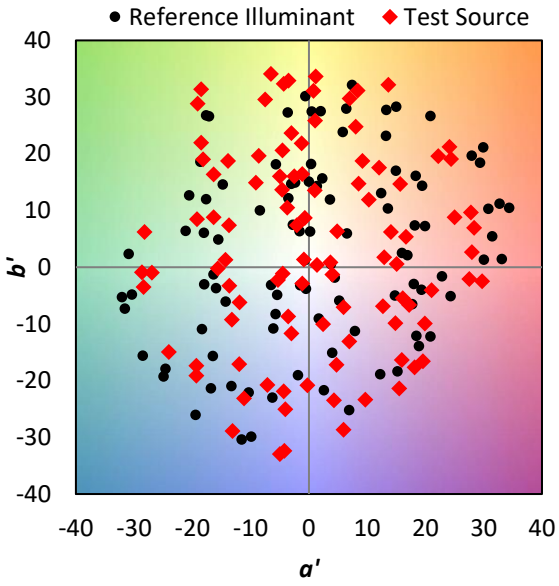
Summary

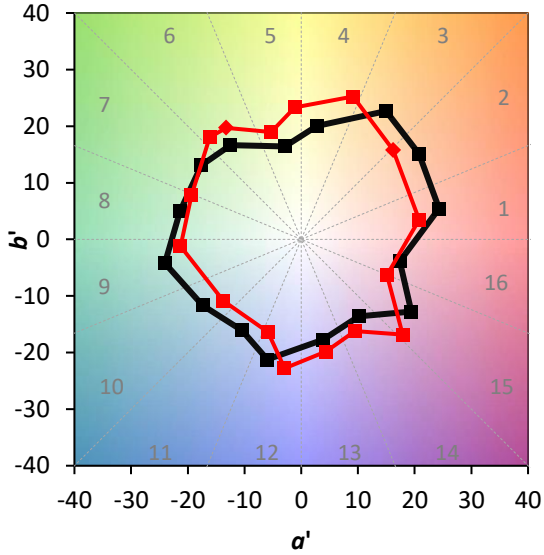
R_f = 70.4
R_g = 96.7
CIE R_a = 70.4
R_9 = -24.6

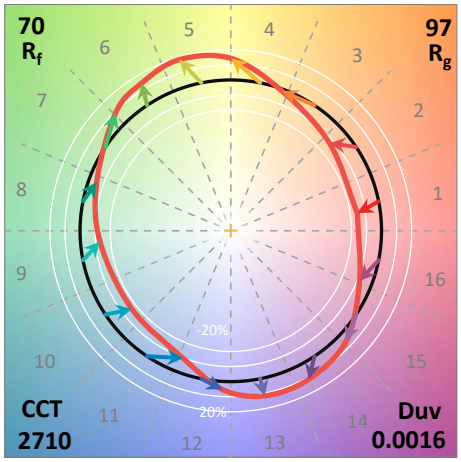
Spectral Power Distribution Comparison

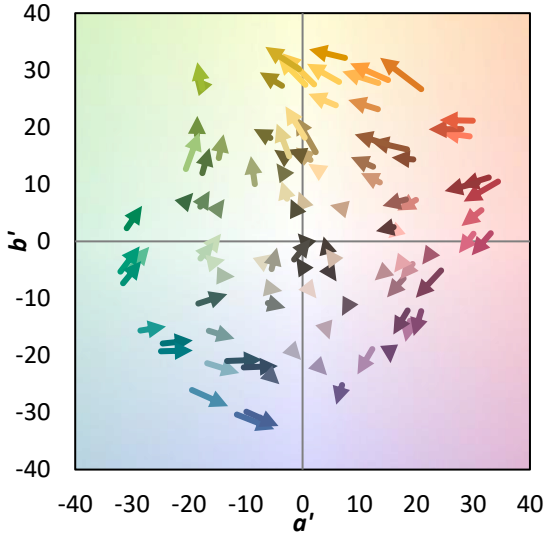


Color Vector Graphics









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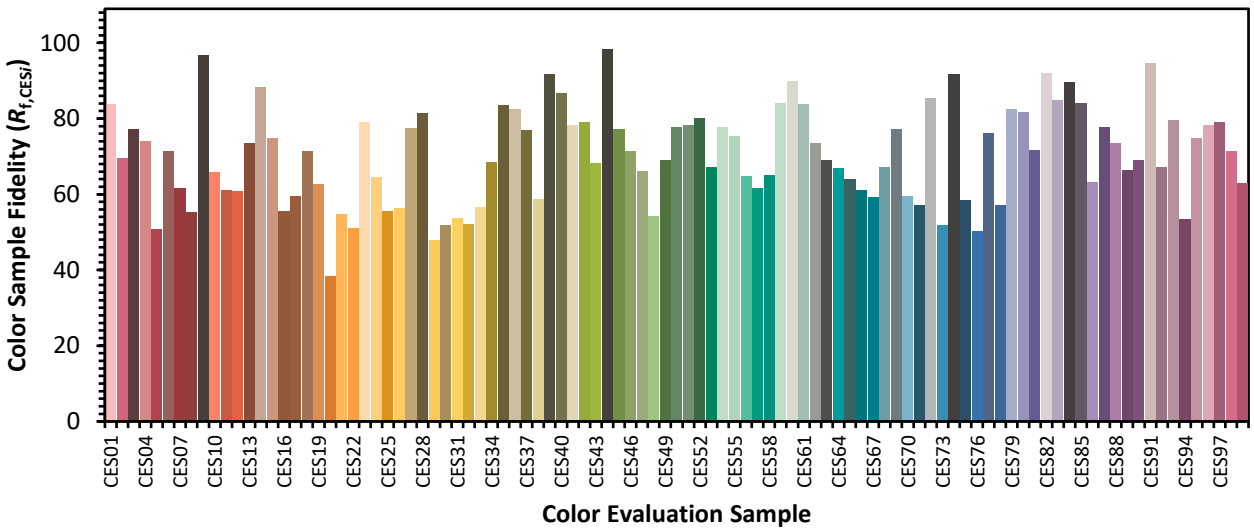
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 56	CES51 = 78	CES76 = 50
CES02 = 63	CES27 = 77	CES52 = 80	CES77 = 76
CES03 = 31	CES28 = 81	CES53 = 67	CES78 = 57
CES04 = 71	CES29 = 48	CES54 = 78	CES79 = 82
CES05 = 50	CES30 = 52	CES55 = 75	CES80 = 82
CES06 = 52	CES31 = 54	CES56 = 65	CES81 = 72
CES07 = 42	CES32 = 52	CES57 = 62	CES82 = 92
CES08 = 41	CES33 = 57	CES58 = 65	CES83 = 85
CES09 = 29	CES34 = 69	CES59 = 84	CES84 = 90
CES10 = 77	CES35 = 84	CES60 = 90	CES85 = 84
CES11 = 60	CES36 = 82	CES61 = 84	CES86 = 63
CES12 = 66	CES37 = 77	CES62 = 73	CES87 = 78
CES13 = 43	CES38 = 59	CES63 = 69	CES88 = 74
CES14 = 74	CES39 = 92	CES64 = 67	CES89 = 66
CES15 = 71	CES40 = 87	CES65 = 64	CES90 = 69
CES16 = 48	CES41 = 78	CES66 = 61	CES91 = 95
CES17 = 51	CES42 = 79	CES67 = 59	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 67	CES93 = 80
CES19 = 73	CES44 = 98	CES69 = 77	CES94 = 54
CES20 = 67	CES45 = 77	CES70 = 60	CES95 = 75
CES21 = 88	CES46 = 71	CES71 = 57	CES96 = 78
CES22 = 80	CES47 = 66	CES72 = 85	CES97 = 79
CES23 = 92	CES48 = 54	CES73 = 52	CES98 = 71
CES24 = 92	CES49 = 69	CES74 = 92	CES99 = 63
CES25 = 73	CES50 = 78	CES75 = 58	



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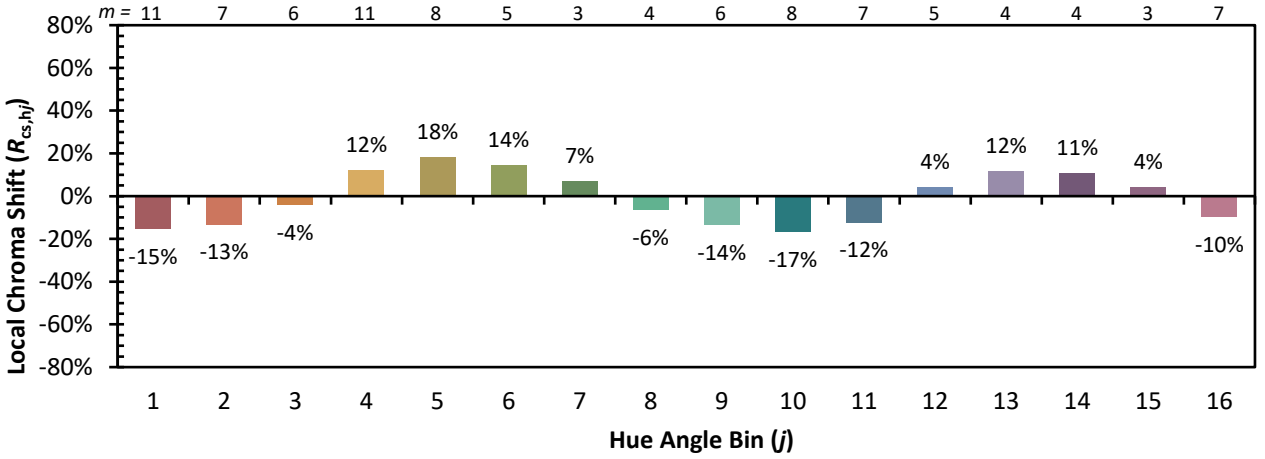
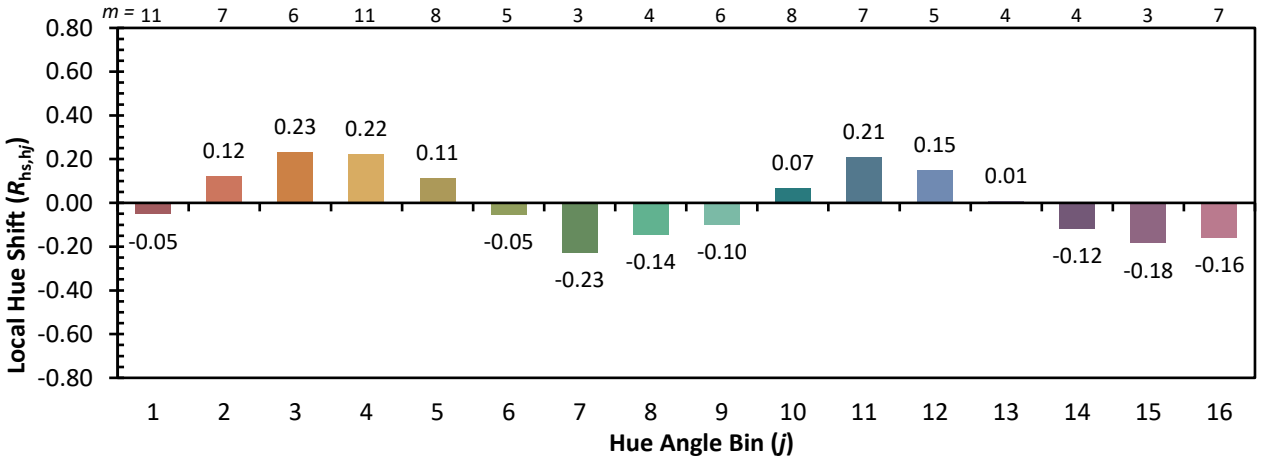
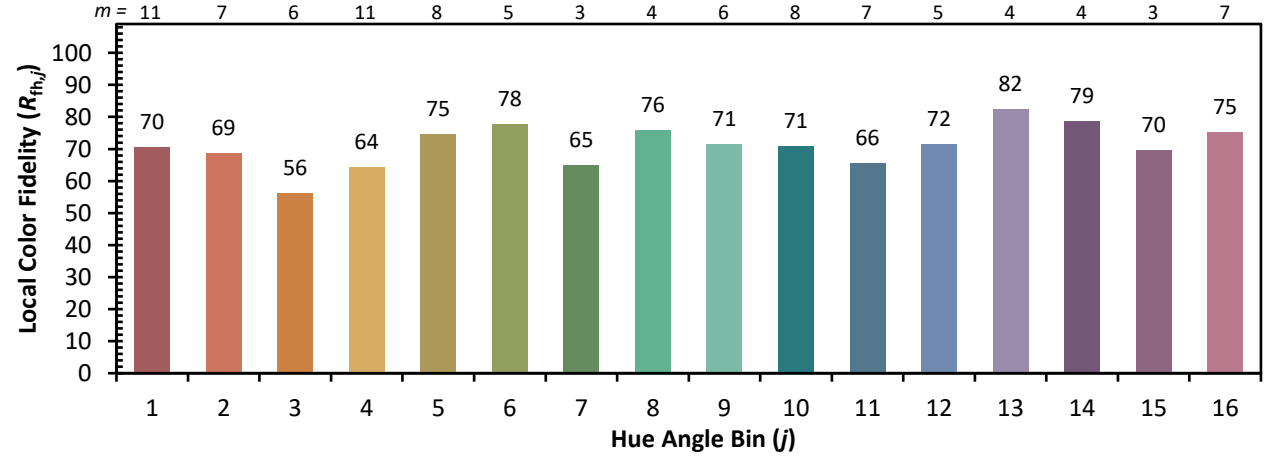
Color Rendition by Hue-Angle Bin







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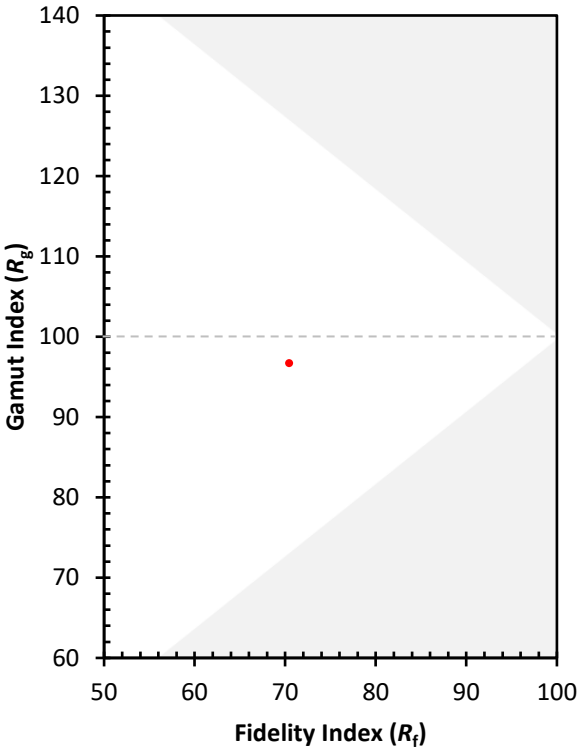
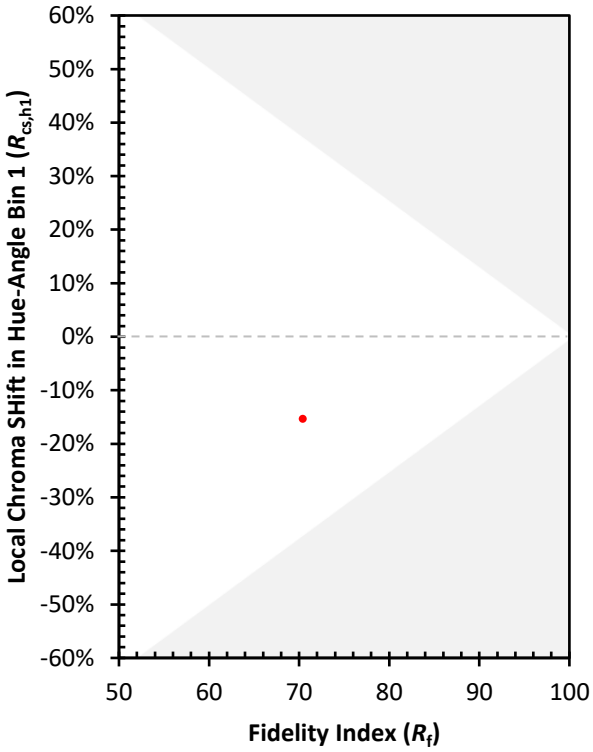
Measure Comparisons





(END OF REPORT)