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: STREETWORKS

Report Number: P870094

Luminaire Tested: **MEM2-HTN-SA-110-840-U-T4W-HSS**

Issue Date: 08/21/2024

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:	P870094
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HTN-SA-110-840-U-T4W-HSS
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 110W 80CRI 4000K FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source:	(30) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11335.7 lumens
Efficiency:	N/A
Efficacy:	100.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	113
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	7.77%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P870094
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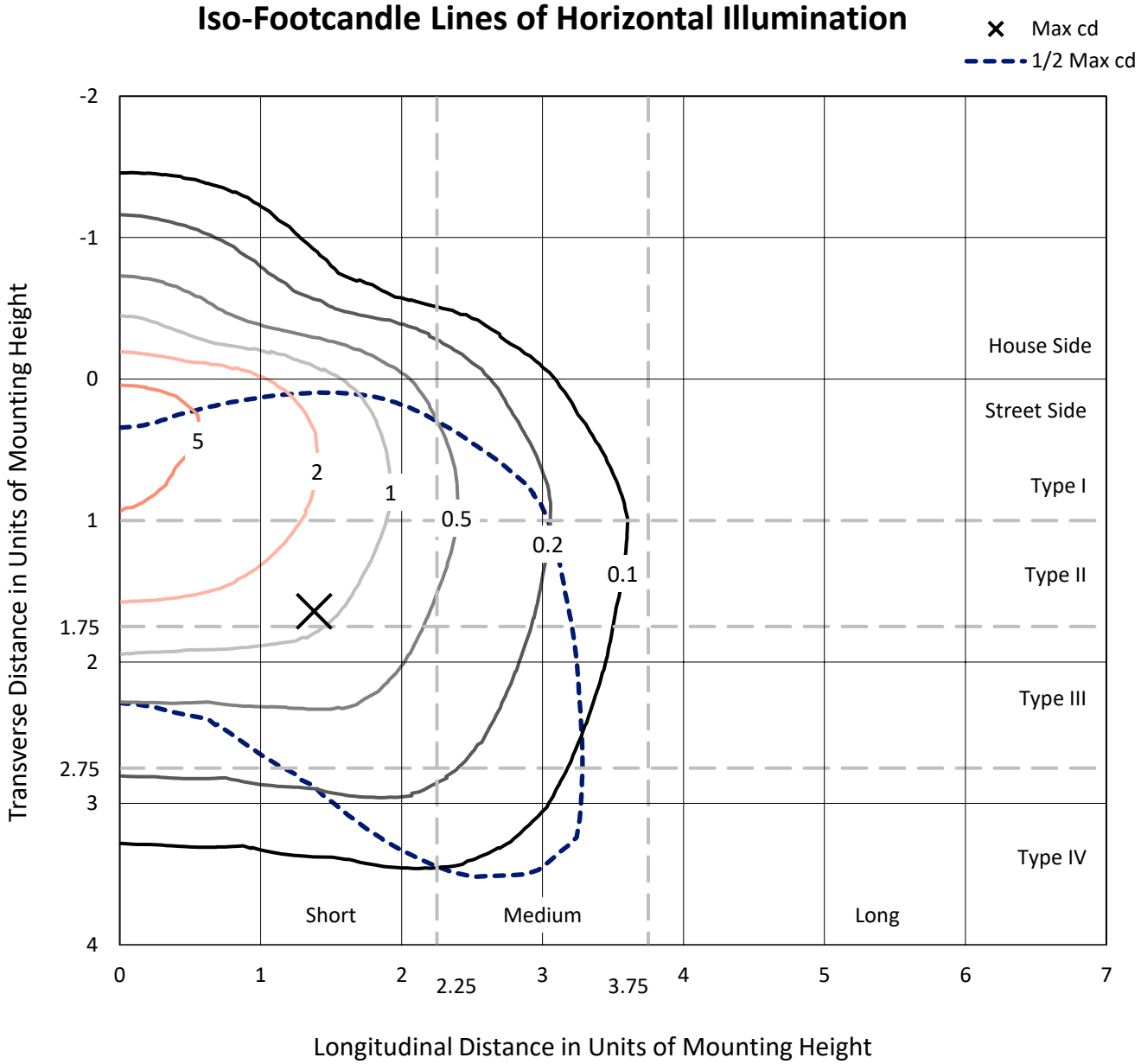
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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REPORT NUMBER: P870094
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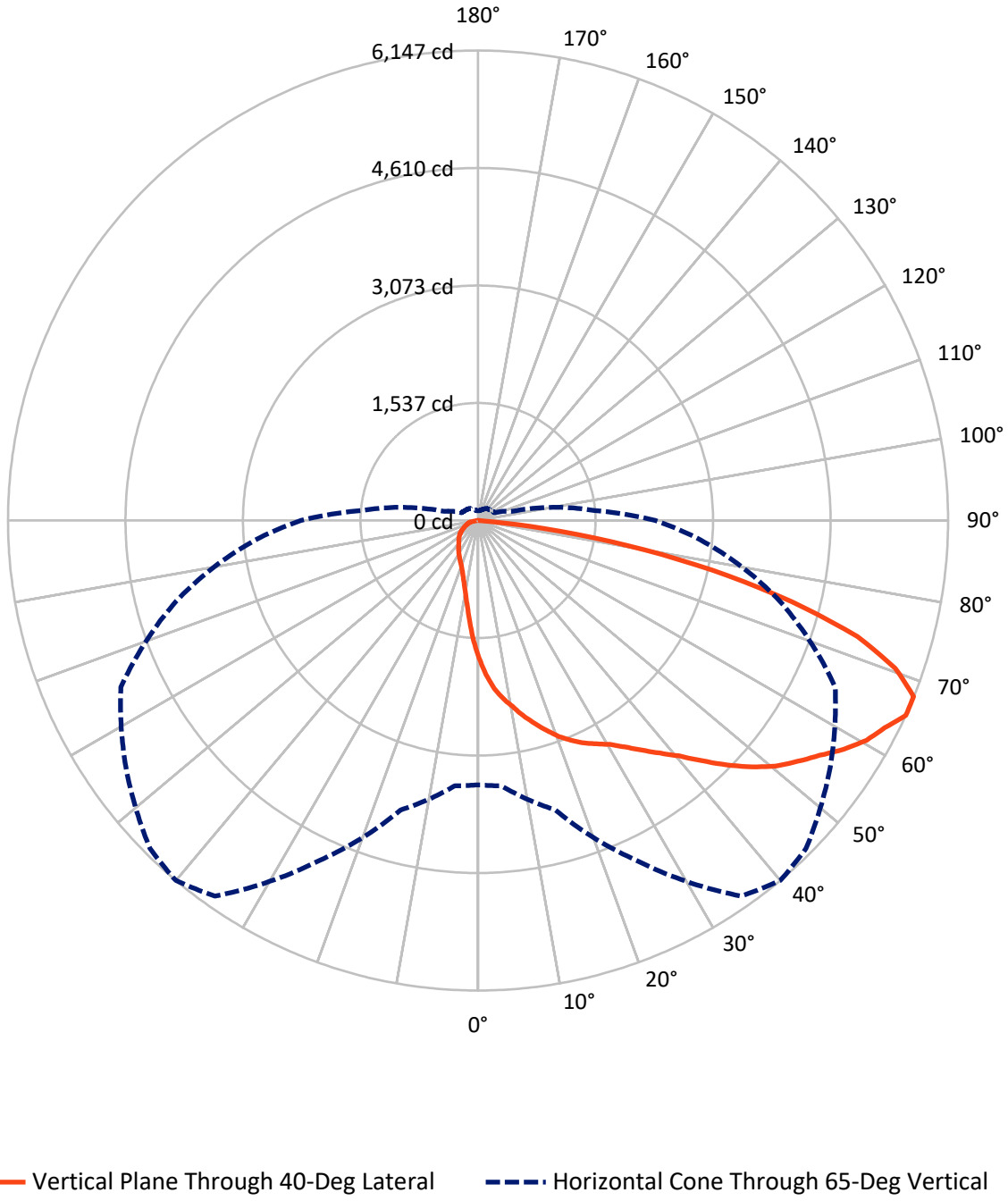
Luminous Intensity Polar Plot



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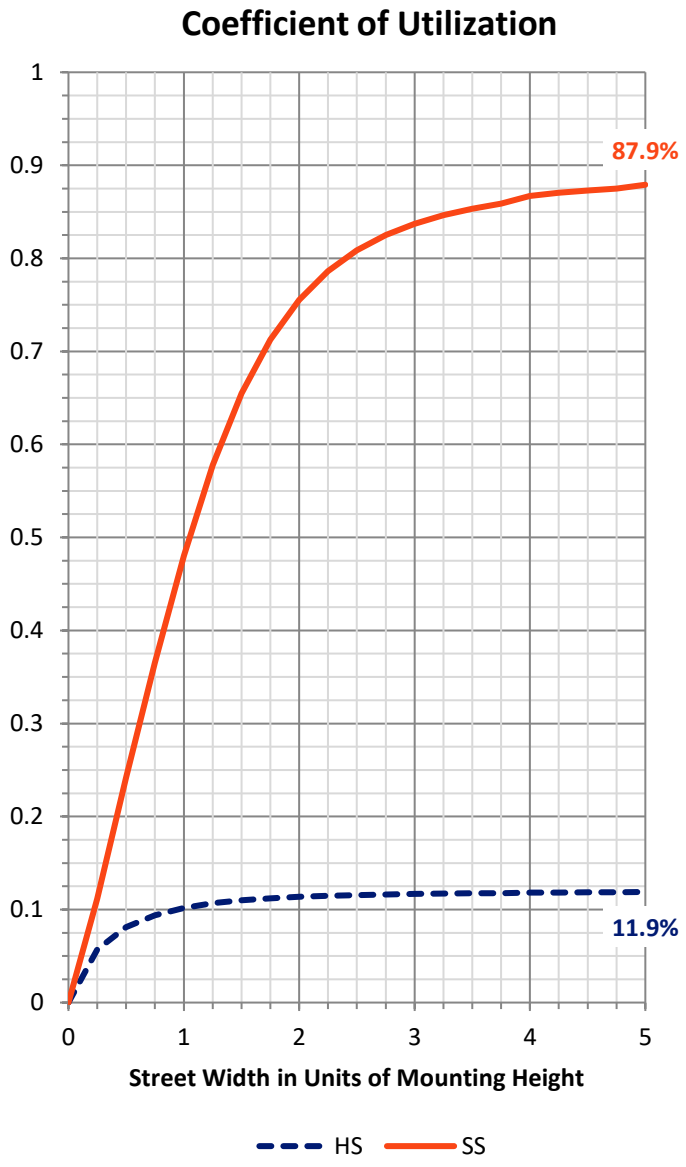
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1357.1	0.0	1357.1
	% Fixture	12.0	0.0	12.0
Street Side	Lumens	9978.6	0.0	9978.6
	% Fixture	88.0	0.0	88.0
Total	Lumens	11335.7	0.0	11335.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.5
10°-20°	507.2	4.5
20°-30°	872.4	7.7
30°-40°	1318.8	11.6
40°-50°	1928.4	17.0
50°-60°	2463.1	21.7
60°-70°	2458.1	21.7
70°-80°	1441.4	12.7
80°-90°	177.6	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°	11335.7	100.0
0°-180°	11335.7	100.0



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REPORT NUMBER: P870094
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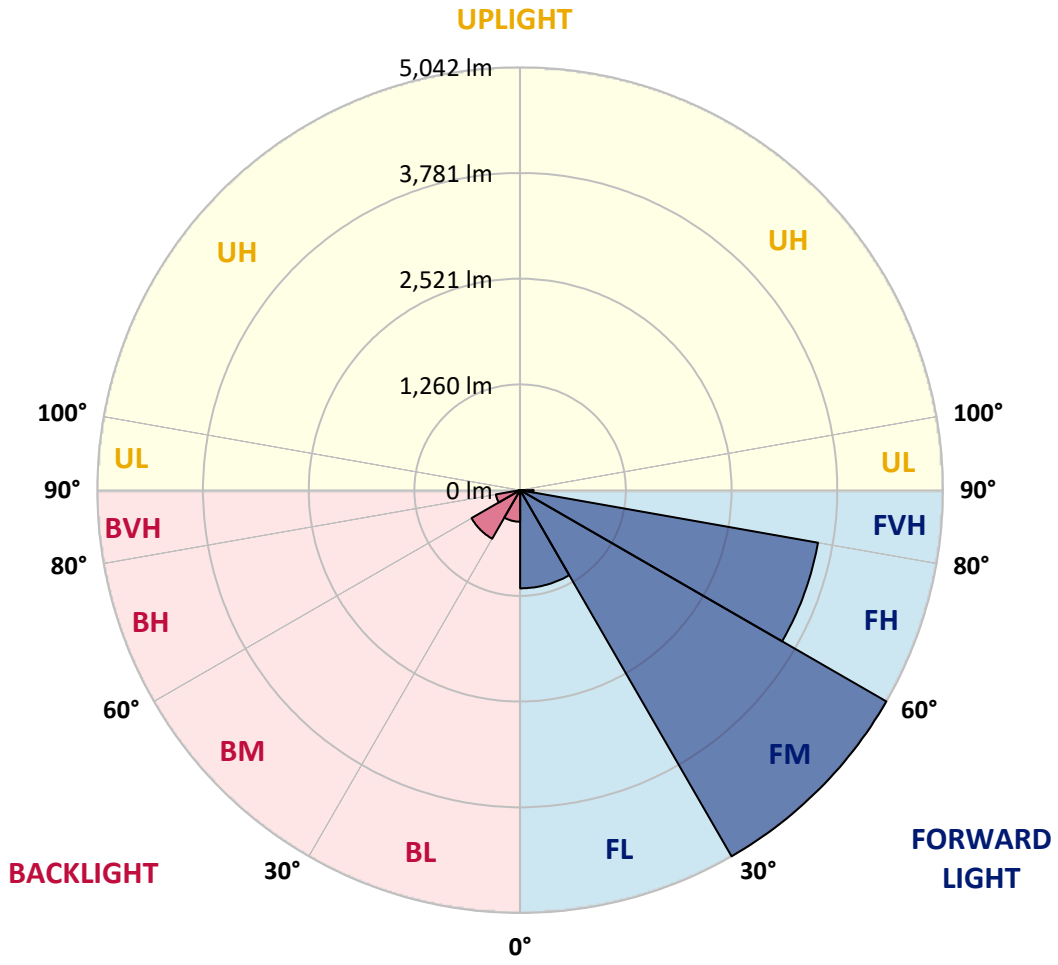
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1170.8	10.3			
FM	(30°-60°)	5041.6	44.5			
FH	(60°-80°)	3605.7	31.8			G2/5000
FVH	(80°-90°)	160.5	1.4			G2/225
BL	(0°-30°)	377.5	3.3	B1/500		
BM	(30°-60°)	668.7	5.9	B1/1000		
BH	(60°-80°)	293.8	2.6	B1/500		G1/500
BVH	(80°-90°)	17.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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REPORT NUMBER: P870094
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1801.9	1801.9	1801.9	1801.9	1801.9	*1801.9*	1801.9	1801.9	1801.9	1801.9	1801.9
2.5°	2102.2	2092.6	2073.5	2057.5	2035.1	*2016.0*	1996.8	1961.6	1916.9	1878.6	1830.7
5°	2309.9	2293.9	2281.1	2262.0	2223.6	*2207.6*	2194.9	2121.4	2044.7	1964.8	1859.4
7.5°	2456.8	2469.6	2444.1	2415.3	2367.4	*2348.2*	2329.1	2255.6	2159.7	2044.7	1894.5
10°	2626.2	2629.4	2597.4	2562.3	2511.2	*2472.8*	2447.3	2357.8	2252.4	2124.6	1932.9
12.5°	2789.1	2789.1	2769.9	2718.8	2651.7	*2616.6*	2571.9	2469.6	2341.8	2191.7	1977.6
15°	2920.1	2926.5	2910.5	2872.2	2798.7	*2750.8*	2706.0	2587.8	2424.9	2268.3	2012.8
17.5°	3038.3	3035.1	3025.5	2990.4	2920.1	*2881.8*	2837.0	2706.0	2520.7	2329.1	2067.1
20°	3118.2	3118.2	3115.0	3095.8	3044.7	*3015.9*	2961.6	2824.3	2626.2	2418.5	2124.6
22.5°	3178.9	3175.7	3175.7	3178.9	3150.1	*3121.4*	3099.0	2961.6	2734.8	2495.2	2182.1
25°	3230.0	3226.8	3236.4	3242.8	3230.0	*3223.6*	3198.1	3092.6	2869.0	2584.6	2239.6
27.5°	3297.1	3306.7	3303.5	3303.5	3300.3	*3306.7*	3303.5	3214.0	3000.0	2680.5	2300.3
30°	3402.5	3418.5	3408.9	3396.1	3396.1	*3399.3*	3415.3	3357.8	3153.3	2798.7	2367.4
32.5°	3648.5	3632.6	3565.5	3520.7	3527.1	*3530.3*	3546.3	3514.3	3306.7	2932.9	2437.7
35°	3929.7	3910.5	3837.0	3734.8	3699.6	*3686.9*	3683.7	3664.5	3472.8	3076.6	2520.7
37.5°	4293.9	4300.3	4191.7	4044.7	3939.3	*3859.4*	3843.4	3801.9	3616.6	3207.6	2607.0
40°	4664.5	4638.9	4546.3	4402.5	4194.8	*4047.9*	4000.0	3942.5	3779.5	3345.0	2690.1
42.5°	5022.3	4974.4	4853.0	4696.4	4453.6	*4293.9*	4185.3	4111.8	3929.7	3495.2	2769.9
45°	5488.8	5351.4	5134.1	4993.6	4690.0	*4559.1*	4460.0	4297.1	4108.6	3645.3	2865.8
47.5°	5856.2	5591.0	5392.9	5332.2	4936.1	*4814.6*	4725.2	4498.4	4290.7	3814.7	2964.8
50°	5789.1	5626.1	5578.2	5523.9	5121.4	*5047.9*	4964.8	4728.4	4476.0	3993.6	3060.7
52.5°	5616.6	5635.7	5696.4	5603.8	5284.3	*5233.2*	5178.9	4974.4	4661.3	4140.5	3146.9
55°	5479.2	5517.5	5680.5	5651.7	5479.2	*5421.7*	5383.3	5217.2	4840.2	4274.7	3220.4
57.5°	5230.0	5198.0	5402.5	5734.8	5686.8	*5642.1*	5603.8	5472.8	5022.3	4370.6	3268.3
60°	4837.0	4718.8	4993.6	5632.5	5830.6	*5837.0*	5814.6	5664.5	5169.3	4370.6	3242.8
62.5°	4284.3	4172.5	4511.1	5290.7	5907.3	*5968.0*	5955.2	5731.6	5233.2	4274.7	3143.7
65°	*3456.8*	*3482.4*	*3920.1*	*4904.1*	*5996.7*	*6146.9*	*6067.0*	*5622.9*	*5153.3*	*4089.4*	*2920.1*
67.5°	2760.4	2837.0	3230.0	4402.5	5955.2	*6143.7*	6031.9	5316.2	4811.5	3830.6	2578.2
70°	2178.9	2230.0	2555.9	3725.2	5591.0	*5789.1*	5648.5	4846.6	4233.2	3431.3	2143.7
72.5°	1702.9	1750.8	2028.7	2980.8	4958.4	*5188.4*	5012.7	4214.0	3511.1	2910.5	1702.9
75°	1293.9	1329.1	1536.7	2297.1	3948.8	*4236.4*	4108.6	3373.8	2741.2	2303.5	1303.5
77.5°	833.9	881.8	1115.0	1610.2	2789.1	*3134.2*	3150.1	2520.7	1971.2	1664.5	958.5
80°	552.7	571.9	715.6	1047.9	1715.6	*1984.0*	2076.7	1702.9	1258.8	1060.7	690.1
82.5°	230.0	255.6	341.8	527.2	859.4	*862.6*	987.2	718.8	511.2	450.5	290.7
85°	6.4	12.8	9.6	25.6	22.4	*35.1*	41.5	57.5	41.5	44.7	44.7
87.5°	0.0	0.0	3.2	3.2	6.4	*6.4*	6.4	6.4	6.4	9.6	6.4
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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Scaled Data Report

REPORT NUMBER: P870094
CATALOG NUMBER: MEM2-HTN-SA-110-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9	1801.9
2.5°	1808.3	1779.5	1722.0	1677.3	1629.4	1594.2	1562.3	1527.1	1504.8	1508.0	1485.6
5°	1808.3	1754.0	1639.0	1536.7	1444.1	1377.0	1303.5	1246.0	1204.5	1198.1	1217.2
7.5°	1817.9	1728.4	1555.9	1402.5	1274.7	1169.3	1092.6	1035.1	1006.4	987.2	984.0
10°	1827.5	1709.2	1479.2	1284.3	1124.6	1009.6	942.5	878.6	846.6	843.4	833.9
12.5°	1833.8	1686.9	1408.9	1166.1	1000.0	891.4	824.3	773.2	747.6	747.6	744.4
15°	1856.2	1680.5	1335.4	1076.7	904.1	798.7	741.2	699.7	683.7	674.1	670.9
17.5°	1875.4	1667.7	1271.6	987.2	817.9	725.2	670.9	642.2	626.2	619.8	616.6
20°	1904.1	1661.3	1210.9	913.7	754.0	664.5	623.0	597.4	587.9	581.5	581.5
22.5°	1932.9	1654.9	1150.1	849.8	699.7	619.8	581.5	559.1	549.5	546.3	543.1
25°	1968.0	1651.7	1099.0	795.5	651.8	584.7	549.5	530.3	517.6	511.2	511.2
27.5°	2003.2	1654.9	1047.9	741.2	610.2	552.7	517.6	495.2	485.6	472.8	476.0
30°	2051.1	1658.1	1006.4	696.5	575.1	520.8	488.8	460.1	447.3	440.9	440.9
32.5°	2099.0	1670.9	964.8	654.9	539.9	495.2	456.9	431.3	415.3	412.1	408.9
35°	2150.1	1680.5	926.5	619.8	511.2	466.4	428.1	402.6	389.8	386.6	386.6
37.5°	2207.6	1696.5	897.8	587.9	482.4	437.7	402.6	377.0	367.4	364.2	364.2
40°	2268.3	1722.0	875.4	559.1	460.1	412.1	380.2	357.8	351.4	348.2	348.2
42.5°	2329.1	1744.4	856.2	536.7	437.7	389.8	364.2	341.8	332.3	332.3	332.3
45°	2386.6	1760.4	837.1	514.4	415.3	373.8	345.0	325.9	316.3	316.3	316.3
47.5°	2437.7	1776.3	808.3	492.0	393.0	351.4	329.1	309.9	300.3	300.3	300.3
50°	2492.0	1785.9	776.4	463.3	370.6	335.5	313.1	290.7	284.3	281.1	281.1
52.5°	2536.7	1785.9	734.8	434.5	345.0	313.1	293.9	274.8	265.2	258.8	258.8
55°	2568.7	1785.9	690.1	399.4	319.5	293.9	274.8	255.6	242.8	233.2	233.2
57.5°	2587.8	1776.3	639.0	357.8	293.9	268.4	255.6	233.2	207.7	188.5	182.1
60°	2571.9	1747.6	584.7	313.1	265.2	246.0	236.4	207.7	172.5	162.9	162.9
62.5°	2504.8	1680.5	530.3	274.8	242.8	223.6	214.1	182.1	156.5	147.0	147.0
65°	*2316.3*	*1517.6*	*463.3*	*239.6*	*217.3*	*204.5*	*191.7*	*162.9*	*140.6*	*127.8*	*127.8*
67.5°	2041.5	1309.9	386.6	210.9	194.9	185.3	175.7	147.0	124.6	111.8	111.8
70°	1654.9	1057.5	329.1	185.3	172.5	166.1	156.5	134.2	108.6	99.0	99.0
72.5°	1300.3	830.7	274.8	166.1	159.7	147.0	140.6	118.2	99.0	89.5	89.5
75°	968.0	619.8	242.8	147.0	147.0	131.0	127.8	105.4	86.3	79.9	79.9
77.5°	712.5	460.1	210.9	127.8	127.8	115.0	108.6	92.7	79.9	73.5	73.5
80°	482.4	313.1	156.5	95.8	95.8	92.7	86.3	79.9	67.1	60.7	57.5
82.5°	204.5	131.0	76.7	47.9	44.7	35.1	28.8	22.4	22.4	19.2	19.2
85°	35.1	16.0	16.0	12.8	9.6	9.6	9.6	6.4	6.4	6.4	6.4
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	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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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-30-840-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-30-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

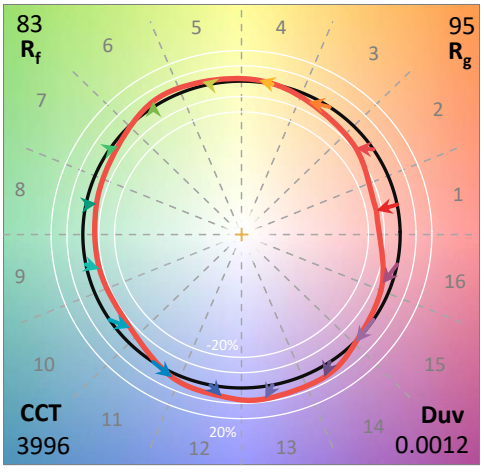
Test Information

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-30-840-U-5WQ**
Description:	Epic Modern Light Square 30W 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

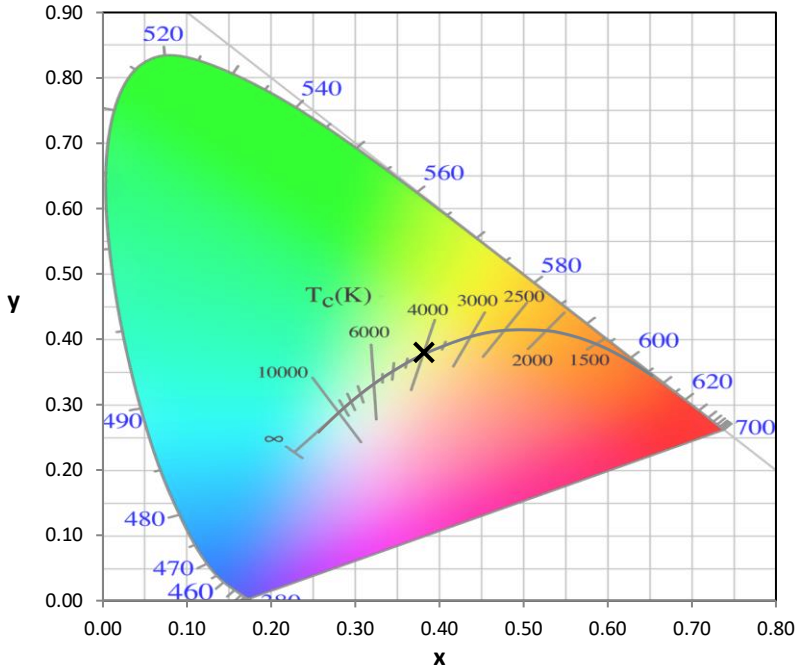
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-8

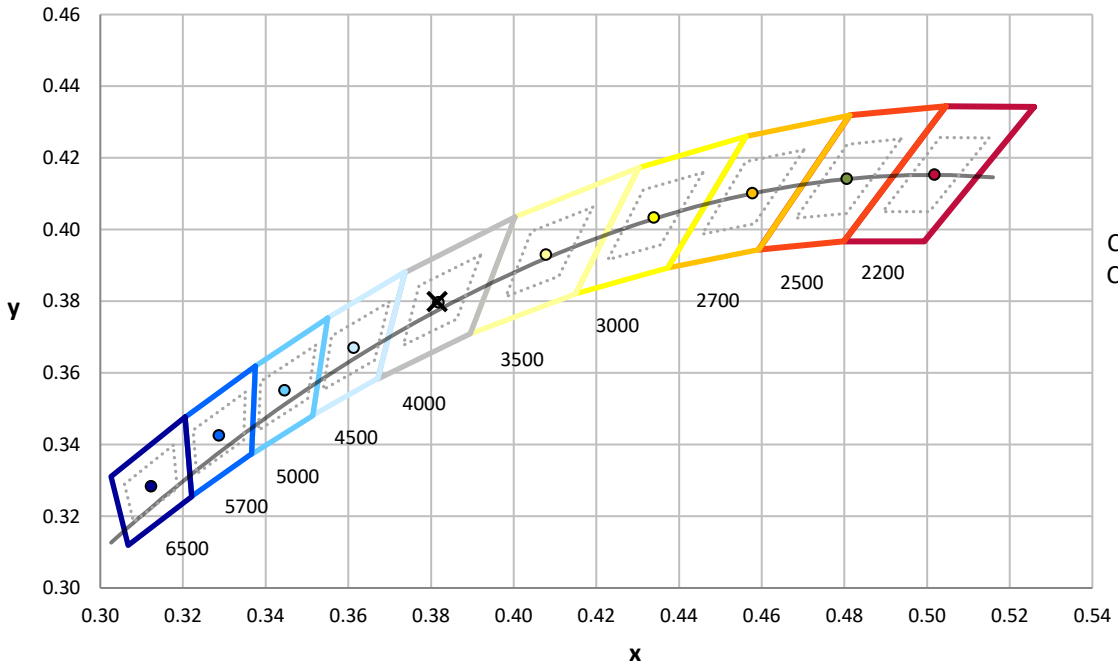
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

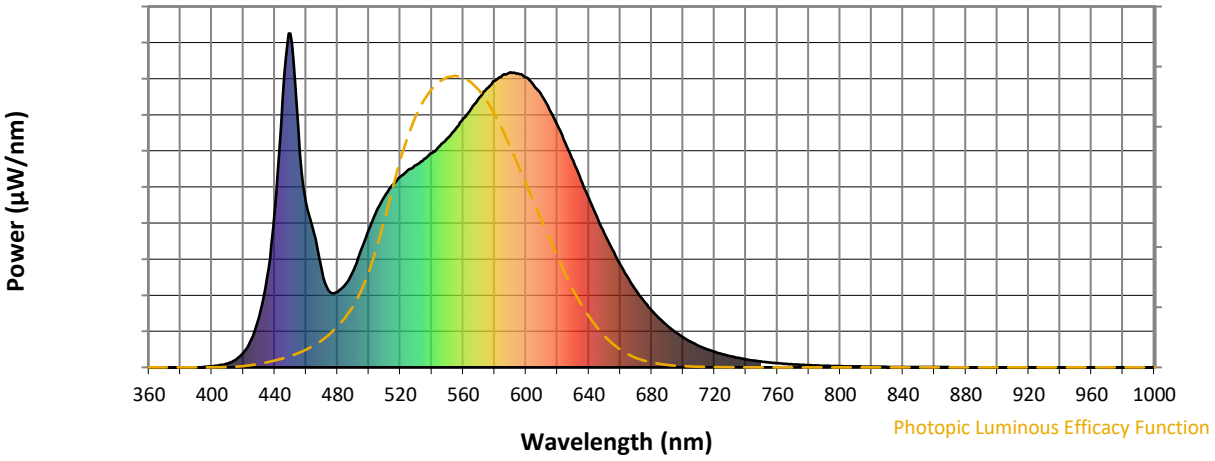


CCT = 3996K
CIE x = 0.3815
CIE y = 0.3799
Duv = 0.0012

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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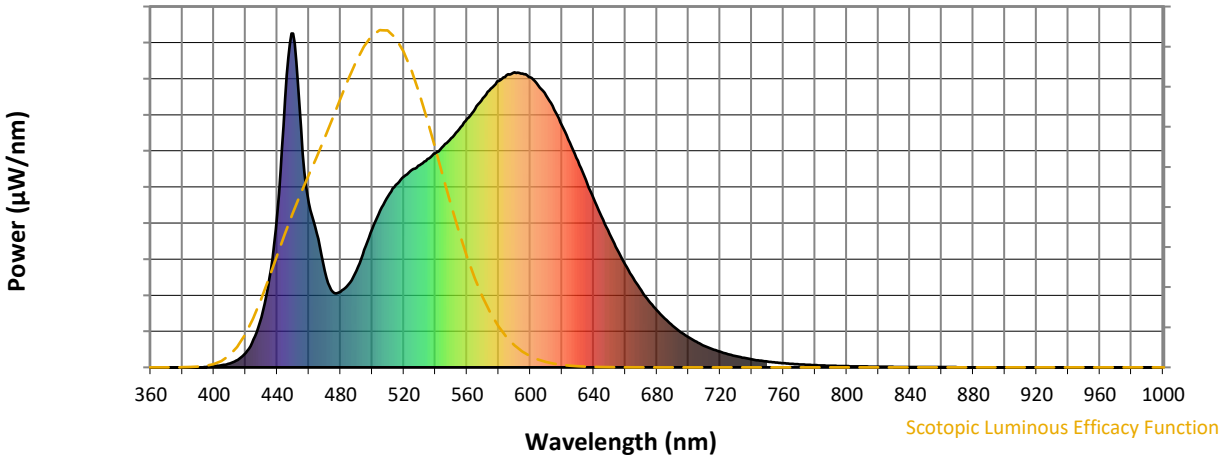
Scotopic Flux vs. Wavelength



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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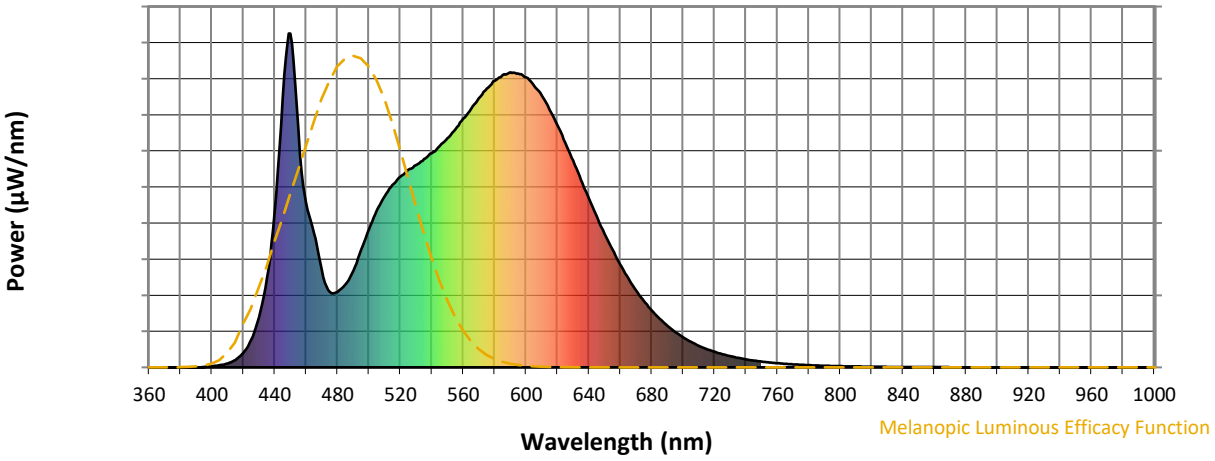
Melanopic Flux vs. Wavelength



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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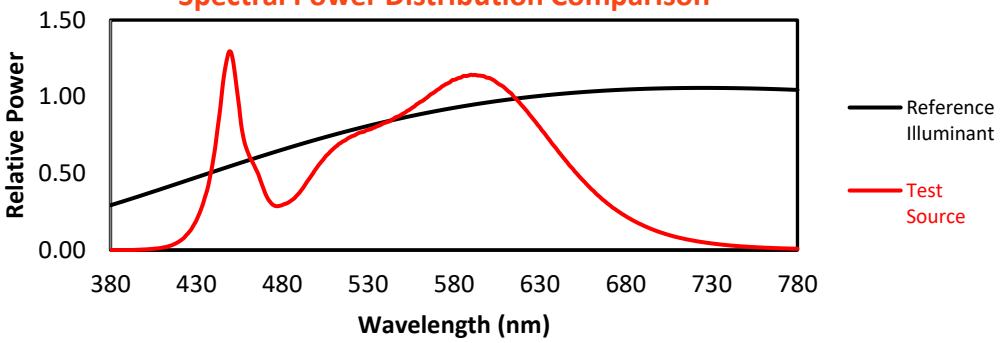
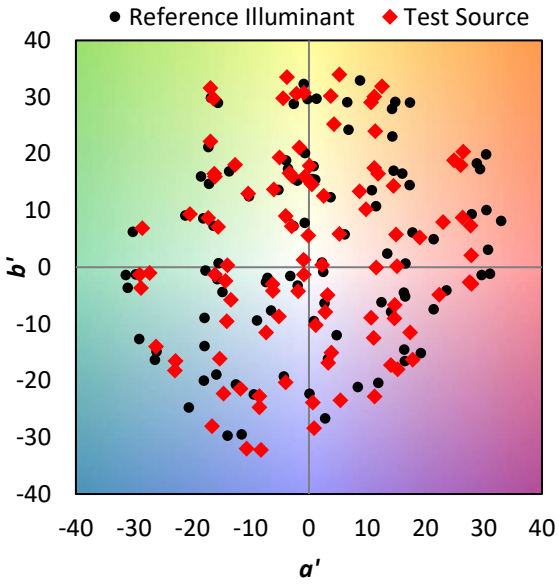
Summary

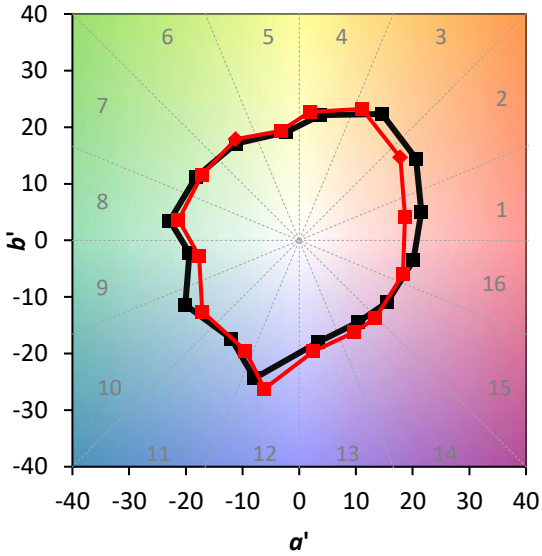
R_f = 82.6
R_g = 95.1
CIE R_a = 80.6
R_9 = -5.8

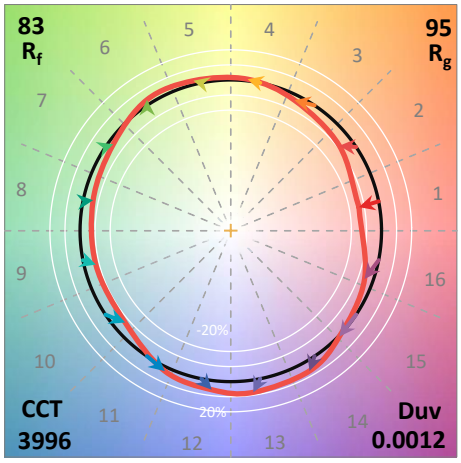
Spectral Power Distribution Comparison

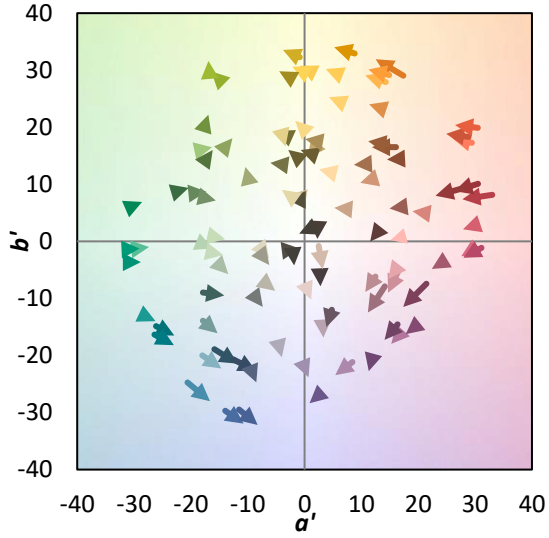


Color Vector Graphics









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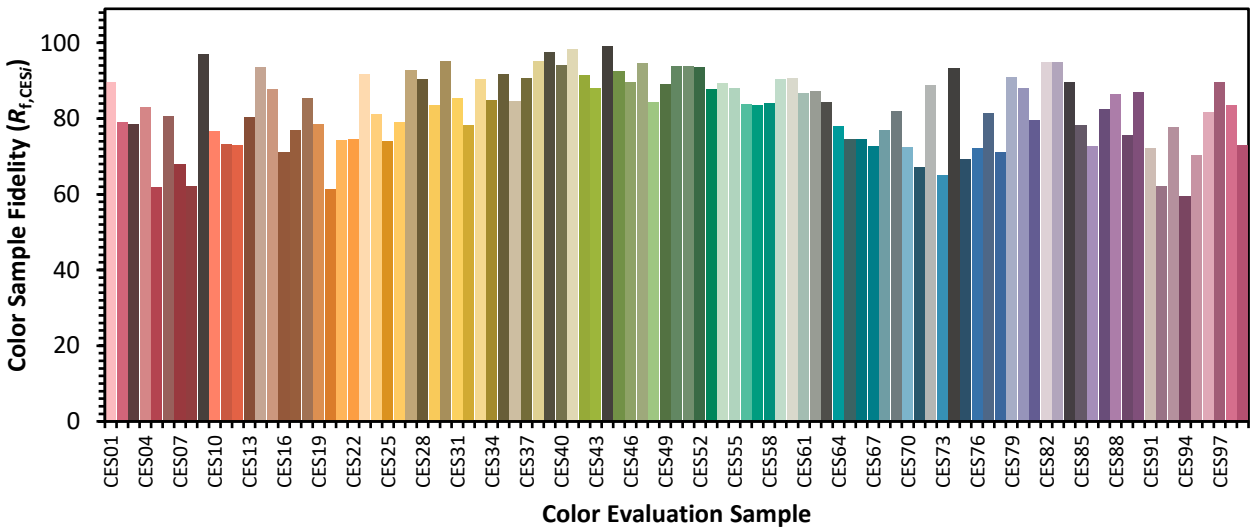
Individual Sample Fidelity Index ($R_{f,i}$)

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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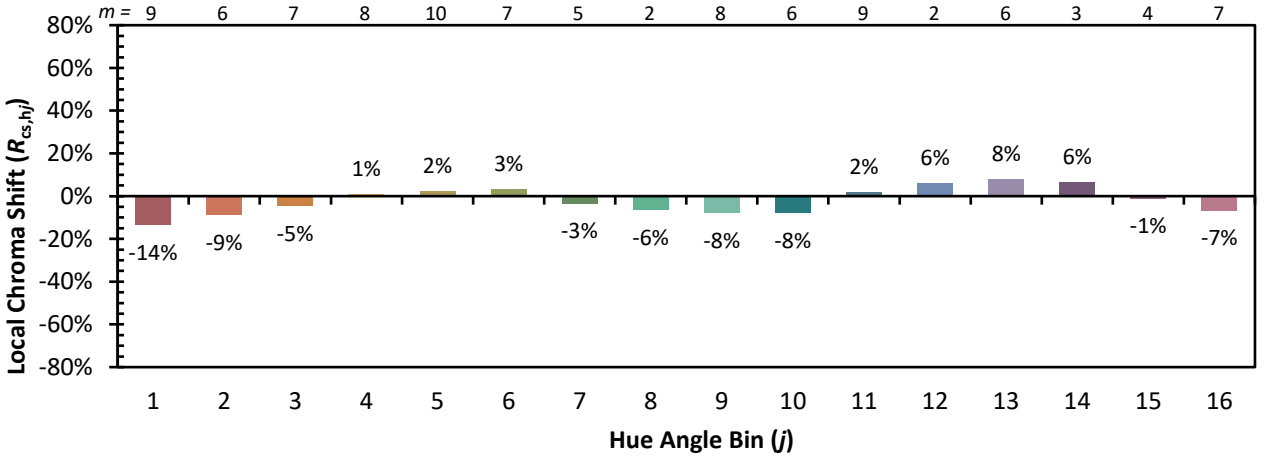
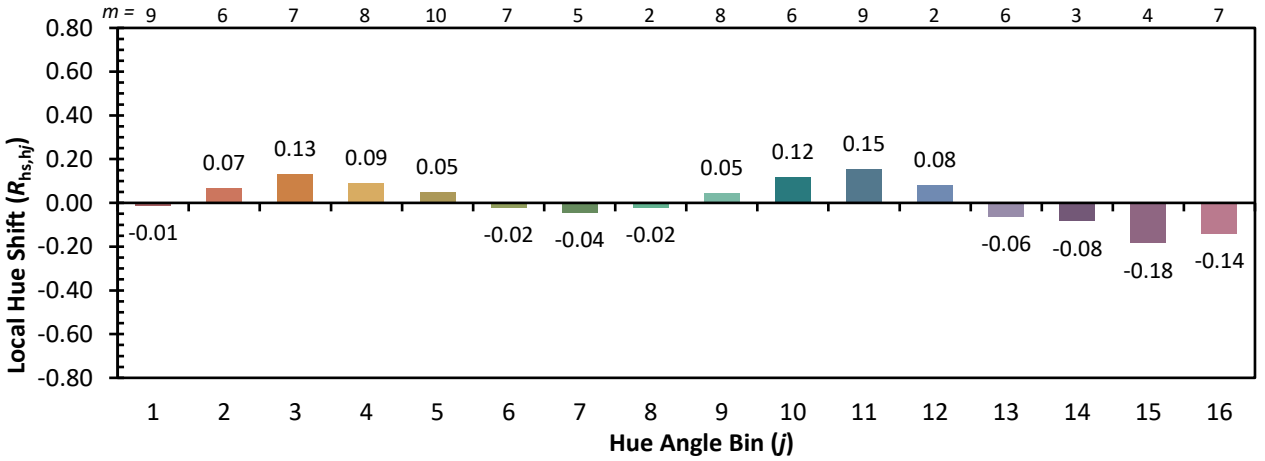
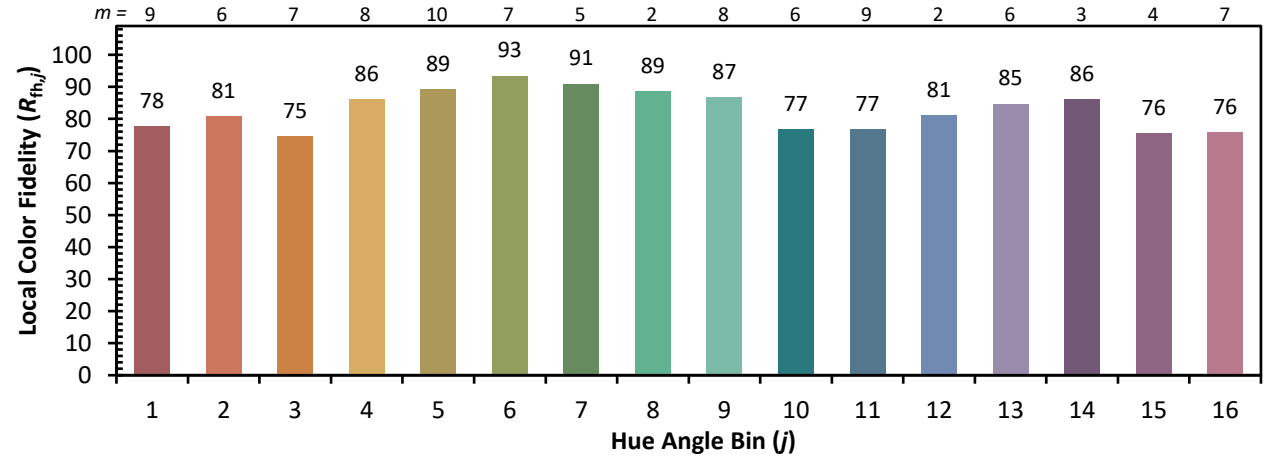
Color Rendition by Hue-Angle Bin







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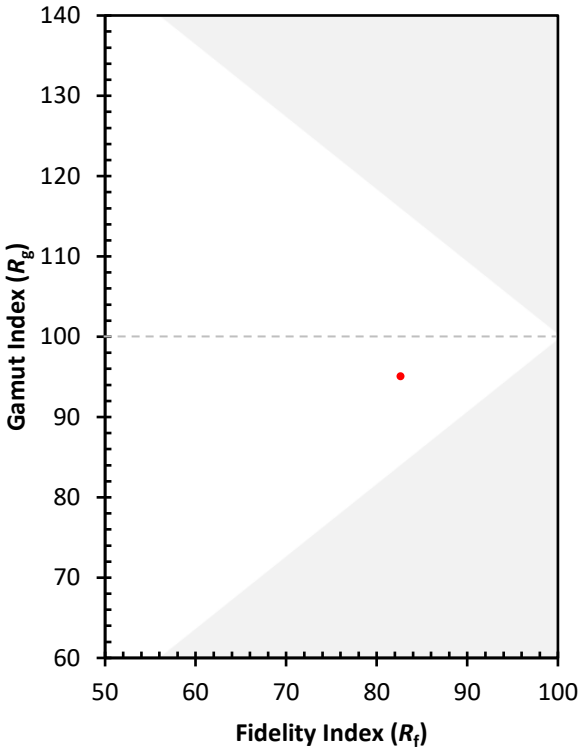
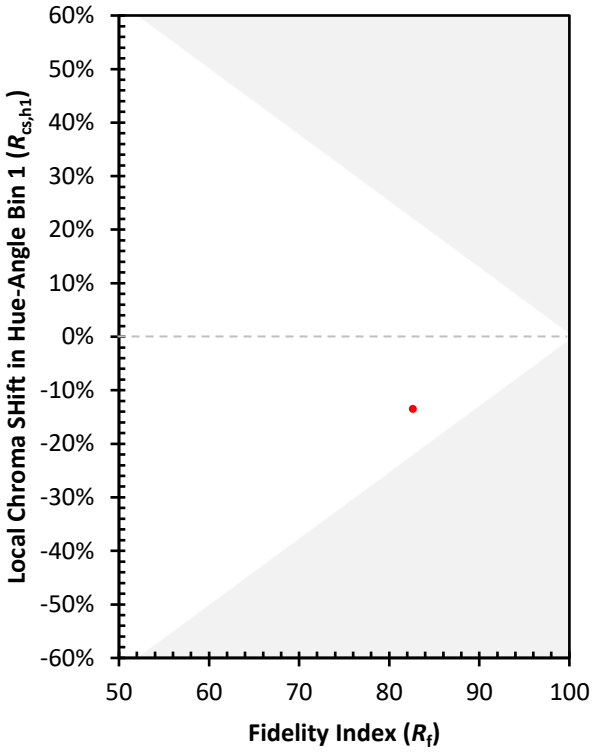
Measure Comparisons





(END OF REPORT)