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: P871186

Luminaire Tested: **EMM2-HSN-SA3A-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:	P871186
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA3A-840-U-T3
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 130W 80CRI 4000K FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source:	(30) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16080.2 lumens
Efficiency:	N/A
Efficacy:	142.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G3

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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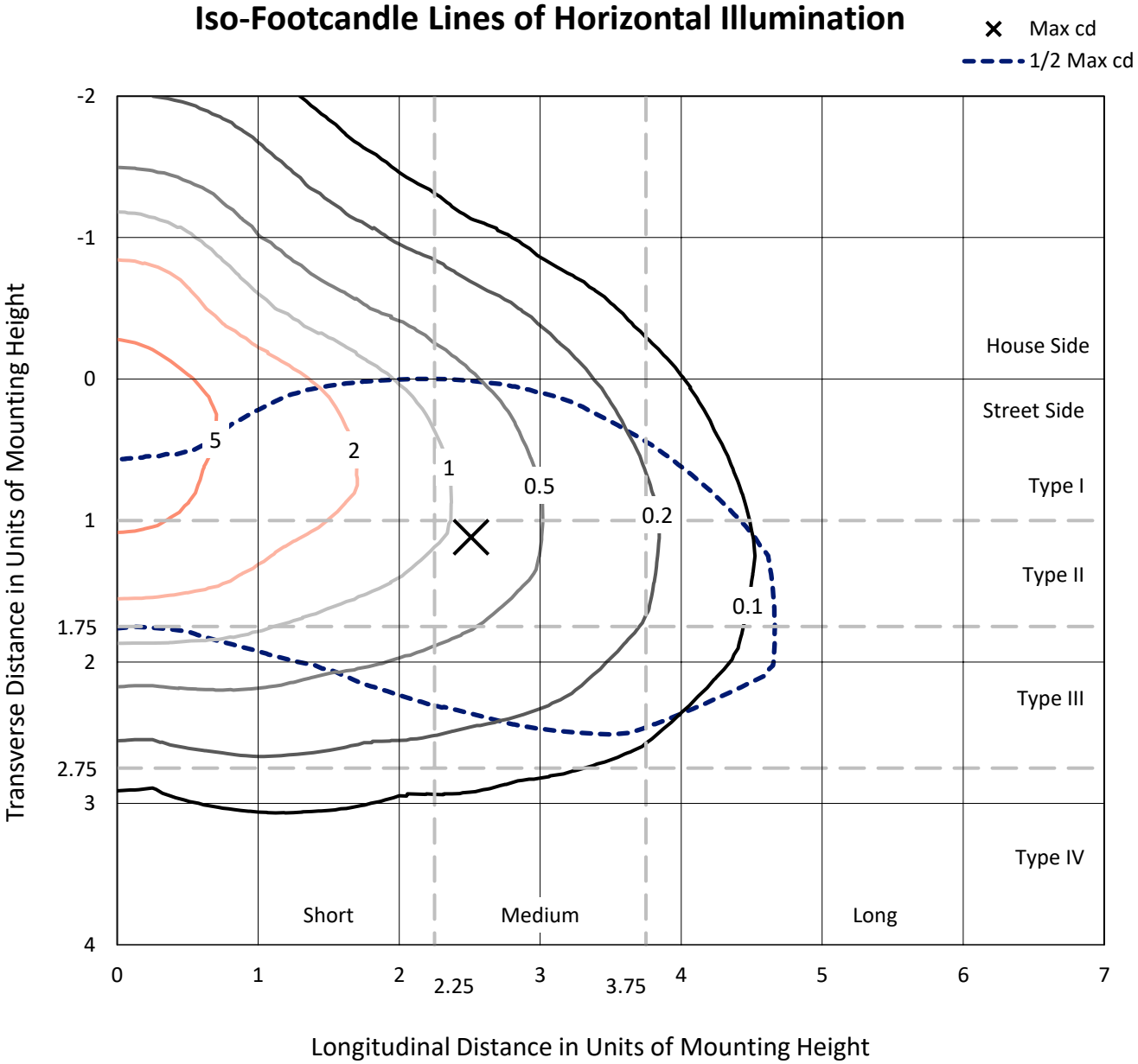
REPORT NUMBER: P871186
CATALOG NUMBER: EMM2-HSN-SA3A-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Medium - N/A

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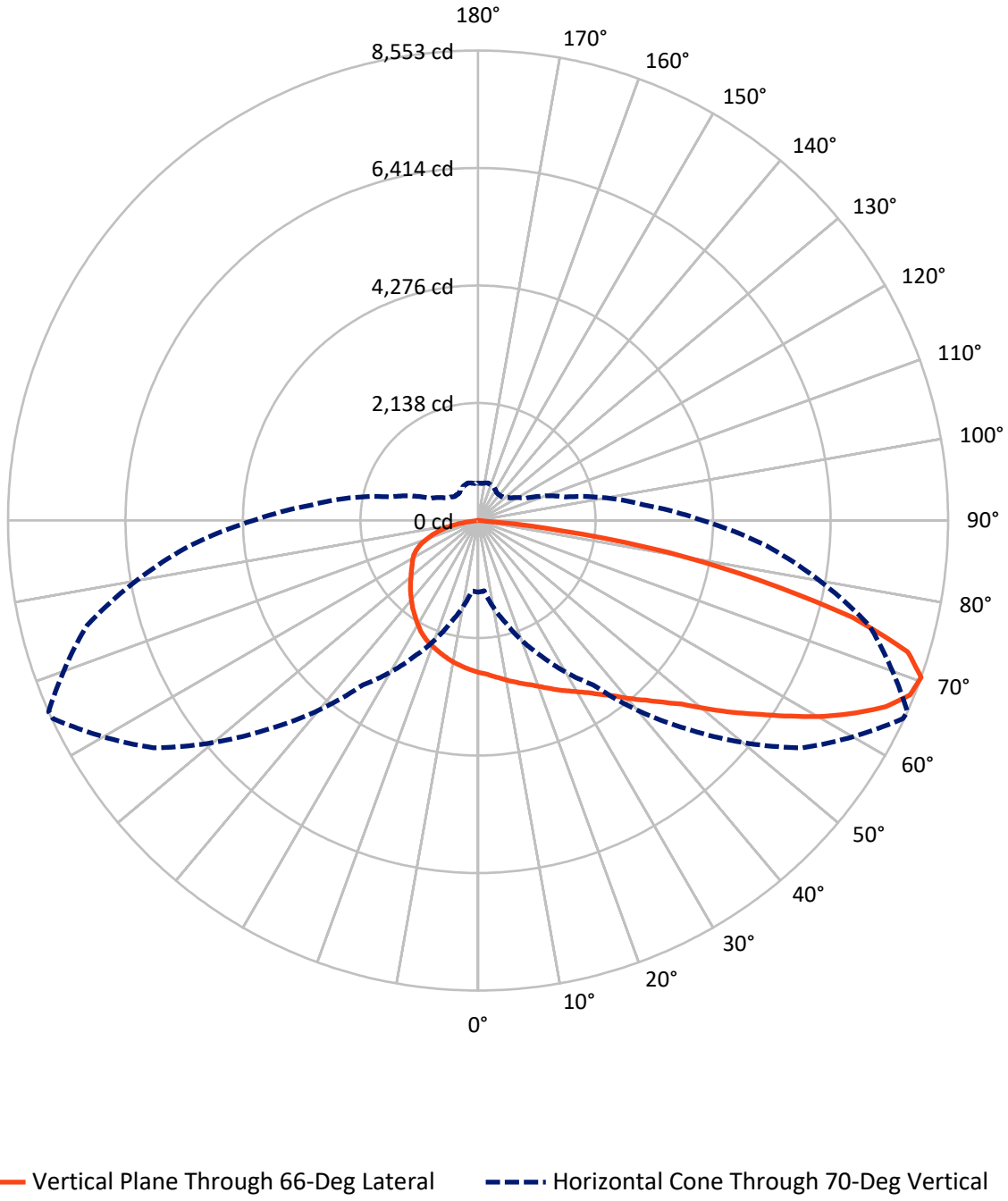
Luminous Intensity Polar Plot



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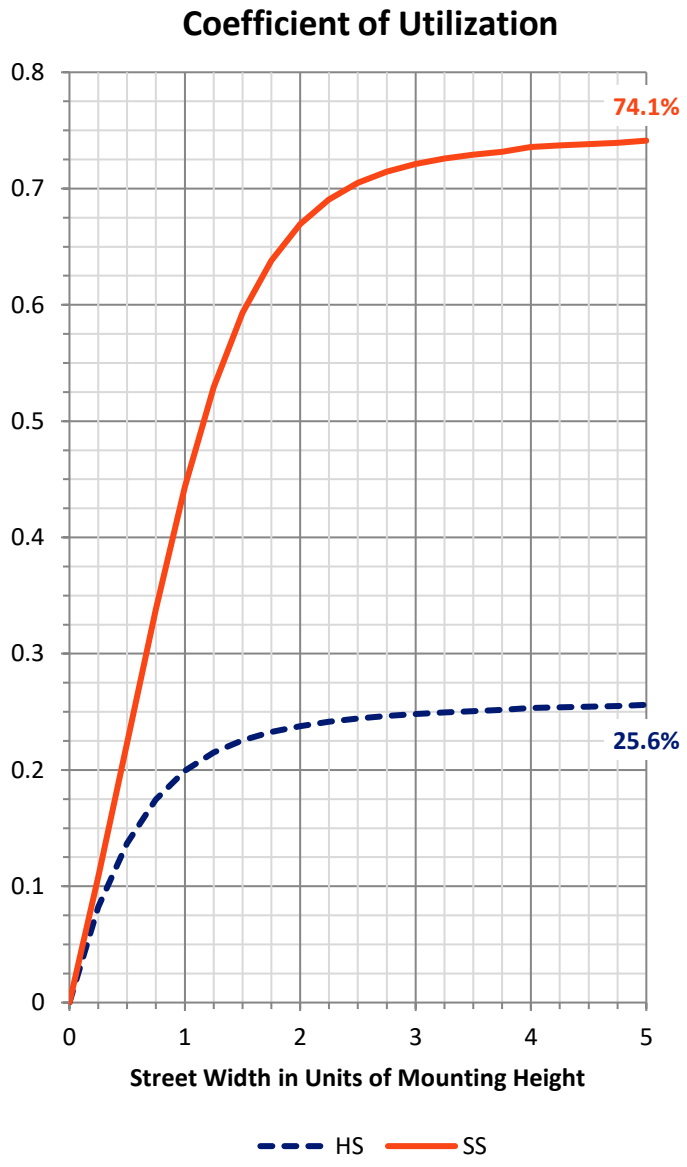
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4144.0	0.0	4144.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	11936.2	0.0	11936.2
	% Fixture	74.2	0.0	74.2
Total	Lumens	16080.2	0.0	16080.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.6
10°-20°	788.6	4.9
20°-30°	1324.6	8.2
30°-40°	1995.7	12.4
40°-50°	2709.4	16.8
50°-60°	3219.6	20.0
60°-70°	3285.8	20.4
70°-80°	2197.7	13.7
80°-90°	294.0	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°	16080.2	100.0
0°-180°	16080.2	100.0



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REPORT NUMBER: P871186
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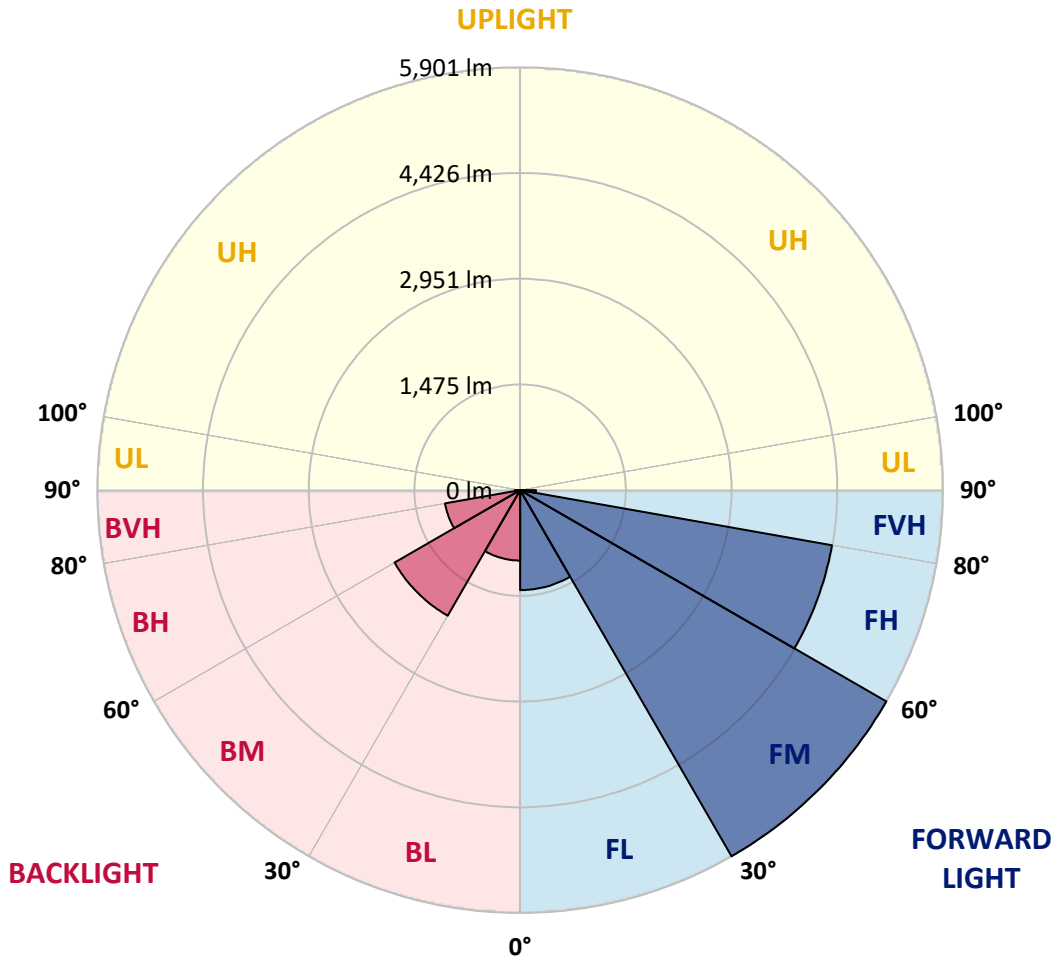
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1395.5	8.7			
FM	(30°-60°)	5901.1	36.7			
FH	(60°-80°)	4419.4	27.5			G2/5000
FVH	(80°-90°)	220.2	1.4			G2/225
BL	(0°-30°)	982.6	6.1	B2/1000		
BM	(30°-60°)	2023.5	12.6	B2/2500		
BH	(60°-80°)	1064.1	6.6	B3/2500		G3/2500
BVH	(80°-90°)	73.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Medium



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REPORT NUMBER: P871186
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	*2766.7*	2766.7	2766.7
2.5°	2865.7	2852.9	2843.4	2849.8	2830.6	2837.0	2814.6	2798.6	*2795.4*	2789.1	2782.7
5°	2955.2	2955.2	2939.2	2939.2	2916.8	2913.6	2881.7	2846.6	*2846.6*	2824.2	2798.6
7.5°	3051.0	3044.6	3025.5	3022.3	2996.7	2990.3	2955.2	2900.9	*2897.7*	2856.1	2817.8
10°	3118.1	3121.3	3108.5	3108.5	3089.4	3073.4	3022.3	2964.8	*2958.4*	2904.1	2843.4
12.5°	3169.2	3175.6	3172.4	3172.4	3156.5	3156.5	3098.9	3022.3	*3015.9*	2945.6	2859.3
15°	3223.5	3220.3	3229.9	3233.1	3226.7	3217.2	3175.6	3086.2	*3083.0*	2990.3	2881.7
17.5°	3271.5	3268.3	3271.5	3287.4	3290.6	3290.6	3249.1	3156.5	*3143.7*	3044.6	2900.9
20°	3300.2	3306.6	3319.4	3338.6	3348.1	3373.7	3338.6	3239.5	*3226.7*	3102.1	2942.4
22.5°	3408.8	3389.7	3399.3	3412.0	3424.8	3460.0	3428.0	3325.8	*3316.2*	3188.4	2990.3
25°	3594.1	3594.1	3571.8	3549.4	3533.4	3549.4	3523.9	3424.8	*3418.4*	3265.1	3044.6
27.5°	3916.8	3916.8	3868.9	3785.8	3680.4	3651.6	3632.5	3530.2	*3511.1*	3348.1	3079.8
30°	4325.7	4338.5	4252.3	4111.7	3916.8	3789.0	3741.1	3629.3	*3619.7*	3431.2	3134.1
32.5°	4763.4	4789.0	4725.1	4520.6	4201.1	3952.0	3875.3	3760.3	*3737.9*	3530.2	3204.4
35°	5156.4	5181.9	5095.7	4904.0	4495.1	4188.4	4035.0	3904.0	*3891.3*	3658.0	3309.8
37.5°	5475.9	5482.3	5427.9	5194.7	4741.1	4386.4	4233.1	4076.6	*4051.0*	3811.4	3421.6
40°	5814.5	5840.1	5785.8	5498.2	4964.7	4600.5	4431.2	4284.2	*4261.9*	3971.1	3527.0
42.5°	6169.1	6165.9	6165.9	5760.2	5188.3	4779.4	4645.2	4482.3	*4469.5*	4134.1	3642.1
45°	6386.4	6399.2	6364.0	5916.8	5517.4	4964.7	4852.9	4734.7	*4712.3*	4360.9	3792.2
47.5°	6440.7	6411.9	6252.2	6038.2	5888.0	5156.4	5114.9	5044.6	*4993.5*	4610.1	3977.5
50°	6367.2	6322.5	6229.8	6092.5	6025.4	5386.4	5380.0	5415.2	*5380.0*	4913.6	4191.6
52.5°	6092.5	6086.1	6070.1	6102.0	5993.4	5568.5	5680.3	5801.7	*5795.3*	5223.5	4415.2
55°	5514.2	5555.7	5747.4	5948.7	5872.0	5693.1	6015.8	6249.0	*6223.5*	5587.7	4645.2
57.5°	4923.2	4964.7	5210.7	5689.9	5753.8	5827.3	6392.8	6757.0	*6715.4*	5983.8	4856.1
60°	4408.8	4364.1	4610.1	5300.2	5587.7	5948.7	6766.6	7271.3	*7236.2*	6380.0	5073.3
62.5°	3594.1	3638.9	4031.8	4731.5	5354.5	6025.4	7073.3	7737.8	*7715.4*	6744.2	5249.0
65°	2843.4	2782.7	3373.7	4134.1	4951.9	5999.8	7338.4	8175.5	*8159.5*	7102.0	5383.2
67.5°	1932.8	1891.3	2670.8	3539.8	4405.6	5795.3	7399.1	8469.4	*8475.8*	7312.9	5418.4
70°	*1303.5*	*1284.3*	*1920.1*	*2722.0*	*3648.5*	*5354.5*	*7210.6*	*8530.1*	*8552.5*	*7367.2*	*5261.8*
72.5°	961.6	958.4	1405.7	1942.4	2715.6	4520.6	6696.3	8133.9	*8175.5*	6983.8	4801.8
75°	757.2	766.7	1003.2	1380.1	1811.4	3344.9	5632.4	6974.2	*7038.1*	6031.8	3987.1
77.5°	619.8	619.8	702.9	990.4	1210.8	2076.6	4051.0	5105.3	*5233.1*	4654.8	3070.2
80°	501.6	511.2	520.8	690.1	801.9	1185.3	2357.8	3405.6	*3498.3*	3242.7	2217.2
82.5°	274.8	293.9	284.3	357.8	402.5	549.5	936.1	1377.0	*1517.5*	1351.4	1006.4
85°	19.2	12.8	22.4	28.8	35.1	54.3	73.5	102.2	*95.8*	137.4	70.3
87.5°	3.2	3.2	3.2	6.4	6.4	9.6	12.8	12.8	*12.8*	12.8	12.8
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: P871186
CATALOG NUMBER: EMM2-HSN-SA3A-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7	2766.7
2.5°	2779.5	2763.5	2737.9	2731.5	2722.0	2709.2	2696.4	2677.2	2670.8	2677.2	2683.6
5°	2782.7	2760.3	2718.8	2693.2	2667.6	2645.3	2619.7	2594.2	2578.2	2581.4	2594.2
7.5°	2792.2	2760.3	2696.4	2654.9	2613.3	2578.2	2536.7	2507.9	2488.7	2491.9	2501.5
10°	2805.0	2760.3	2683.6	2613.3	2555.8	2504.7	2463.2	2428.0	2408.9	2405.7	2408.9
12.5°	2808.2	2757.1	2654.9	2568.6	2498.3	2431.2	2386.5	2354.6	2335.4	2325.8	2332.2
15°	2817.8	2747.5	2626.1	2520.7	2434.4	2364.1	2309.8	2271.5	2258.7	2252.3	2249.1
17.5°	2830.6	2744.3	2600.6	2472.8	2370.5	2290.7	2242.7	2204.4	2188.4	2182.0	2188.4
20°	2849.8	2747.5	2571.8	2424.8	2313.0	2233.2	2178.8	2140.5	2127.7	2124.5	2121.3
22.5°	2875.3	2753.9	2549.4	2380.1	2249.1	2169.3	2115.0	2089.4	2079.8	2083.0	2083.0
25°	2900.9	2760.3	2517.5	2319.4	2182.0	2099.0	2060.6	2041.5	2047.9	2060.6	2060.6
27.5°	2923.2	2757.1	2472.8	2255.5	2102.2	2025.5	1996.7	1999.9	2015.9	2038.3	2041.5
30°	2952.0	2757.1	2424.8	2175.7	2012.7	1939.2	1932.8	1958.4	1984.0	2006.3	2006.3
32.5°	2996.7	2776.3	2386.5	2095.8	1920.1	1862.6	1891.3	1926.5	1955.2	1977.6	1984.0
35°	3073.4	2817.8	2360.9	2015.9	1830.6	1789.1	1843.4	1900.9	1920.1	1936.0	1939.2
37.5°	3146.9	2856.1	2329.0	1939.2	1738.0	1722.0	1795.5	1856.2	1859.4	1869.0	1869.0
40°	3217.2	2884.9	2287.5	1856.2	1648.5	1648.5	1734.8	1785.9	1779.5	1769.9	1773.1
42.5°	3293.8	2900.9	2239.5	1779.5	1575.0	1575.0	1645.3	1690.0	1686.8	1699.6	1709.2
45°	3386.5	2932.8	2175.7	1709.2	1498.4	1485.6	1543.1	1581.4	1629.3	1686.8	1702.8
47.5°	3514.3	2977.5	2124.5	1632.5	1434.5	1389.7	1412.1	1492.0	1546.3	1594.2	1600.6
50°	3648.5	3041.4	2079.8	1552.7	1357.8	1277.9	1297.1	1386.5	1418.5	1437.7	1447.2
52.5°	3792.2	3092.6	2041.5	1485.6	1277.9	1162.9	1188.5	1274.7	1297.1	1313.1	1316.3
55°	3916.8	3134.1	1993.5	1421.7	1191.7	1054.3	1086.2	1169.3	1191.7	1210.8	1210.8
57.5°	4047.8	3172.4	1961.6	1367.4	1099.0	964.8	987.2	1070.3	1102.2	1108.6	1118.2
60°	4156.4	3207.6	1932.8	1316.3	1012.7	885.0	900.9	974.4	1012.7	1015.9	1022.3
62.5°	4233.1	3229.9	1916.9	1252.4	926.5	805.1	817.9	891.3	936.1	945.7	948.9
65°	4281.0	3242.7	1888.1	1169.3	853.0	738.0	738.0	811.5	856.2	878.6	885.0
67.5°	4258.7	3220.3	1811.4	1073.4	785.9	670.9	667.7	741.2	779.5	792.3	795.5
70°	*4086.1*	*3089.4*	*1654.9*	*955.2*	*715.6*	*610.2*	*603.8*	*670.9*	*706.0*	*677.3*	*680.5*
72.5°	3734.7	2792.2	1440.9	837.0	642.2	552.7	546.3	603.8	607.0	607.0	603.8
75°	3146.9	2281.1	1150.1	712.4	565.5	492.0	495.2	539.9	543.1	559.1	549.5
77.5°	2412.1	1690.0	897.7	568.7	479.2	437.7	453.7	469.6	492.0	514.4	492.0
80°	1753.9	1166.1	623.0	424.9	370.6	370.6	377.0	393.0	424.9	447.3	424.9
82.5°	750.8	514.4	287.5	210.9	182.1	178.9	182.1	182.1	223.6	230.0	201.3
85°	57.5	47.9	35.1	35.1	28.8	16.0	16.0	12.8	9.6	9.6	9.6
87.5°	12.8	9.6	9.6	9.6	6.4	6.4	6.4	6.4	6.4	6.4	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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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

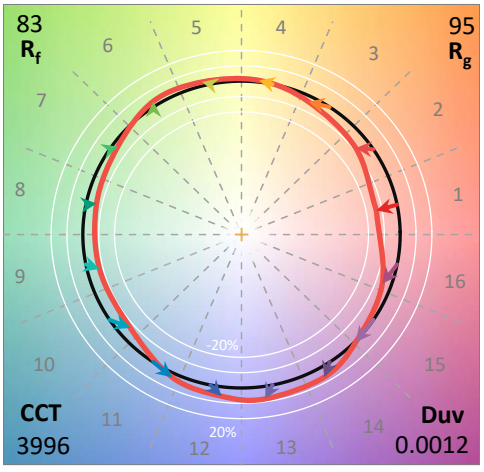
Test Information

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

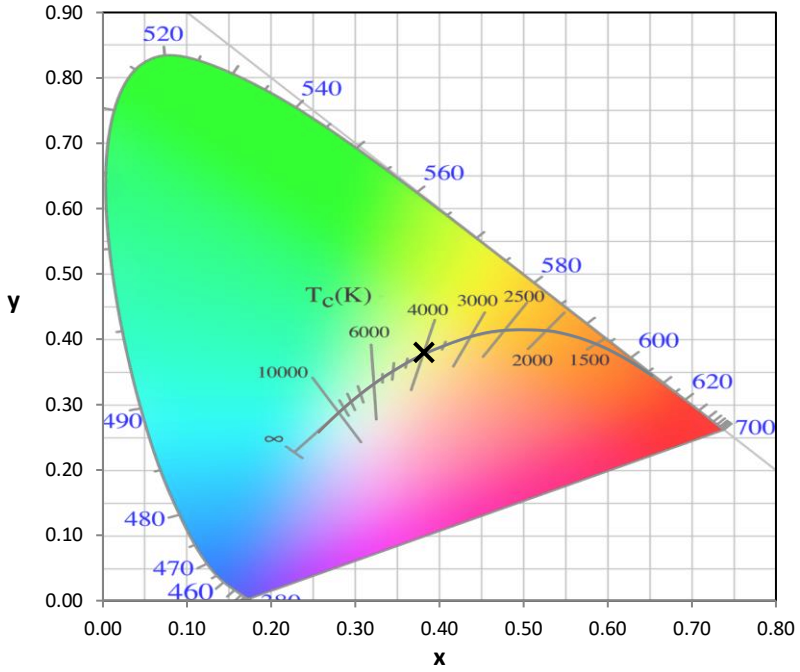
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-8

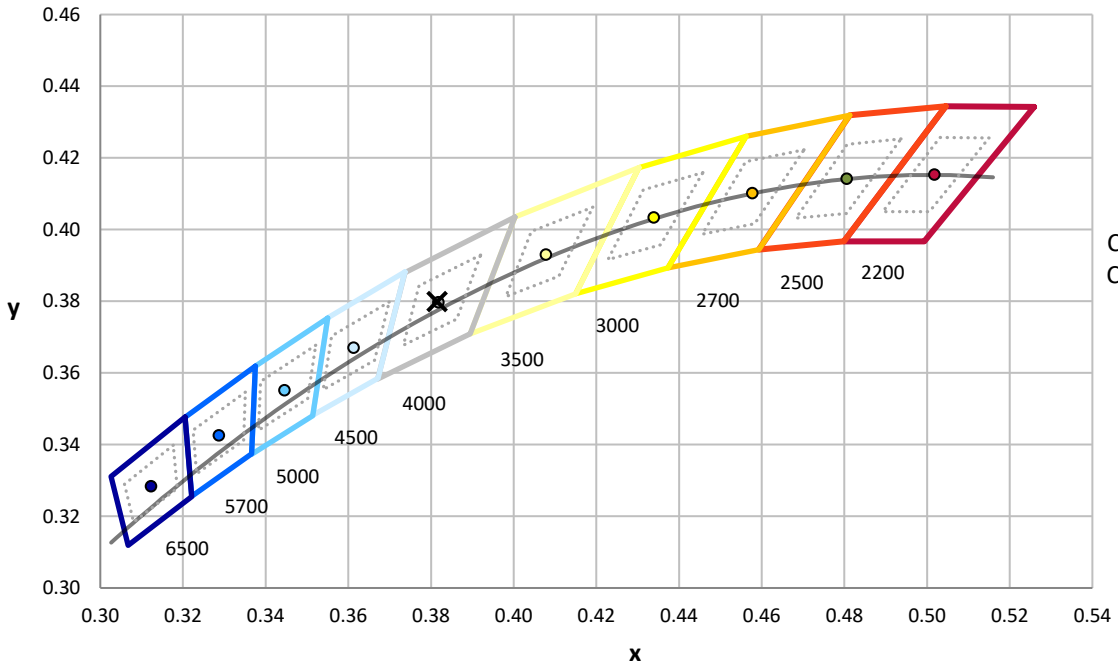
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

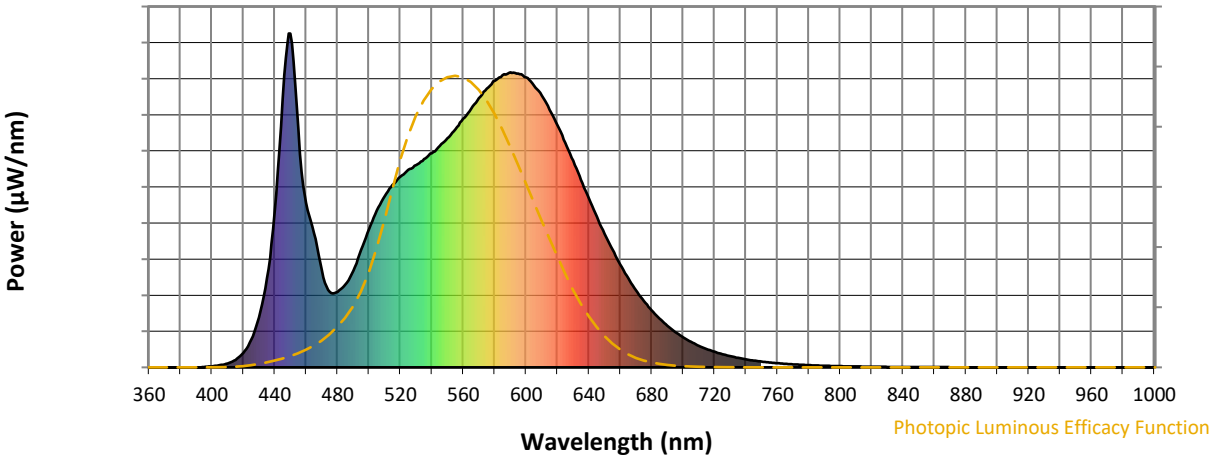


CCT = 3996K
CIE x = 0.3815
CIE y = 0.3799
Duv = 0.0012

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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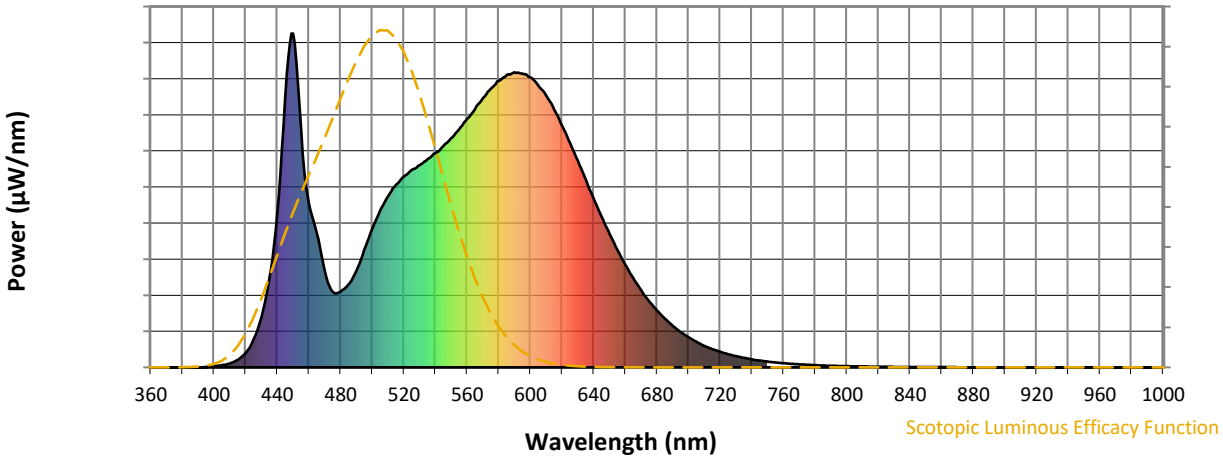
Scotopic Flux vs. Wavelength



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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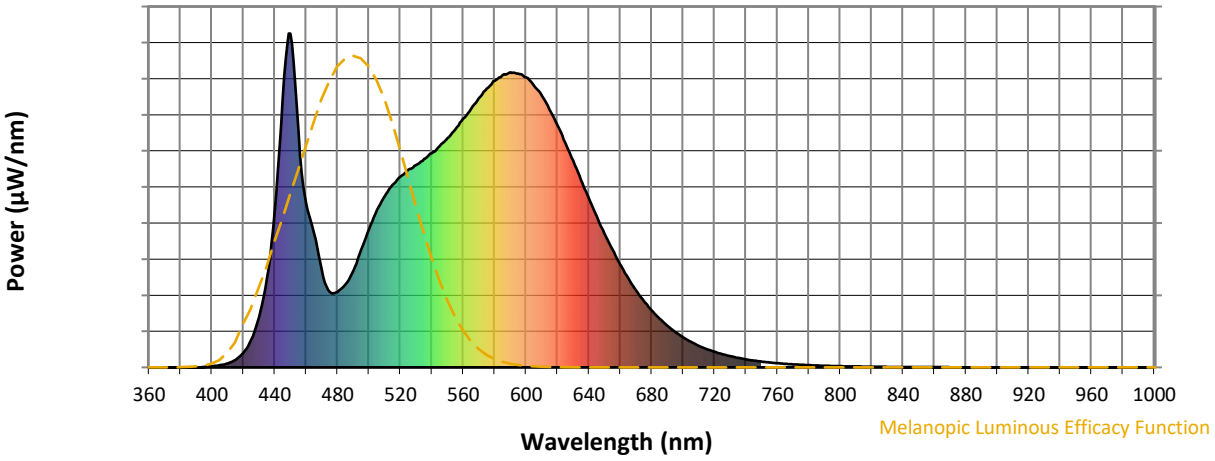
Melanopic Flux vs. Wavelength



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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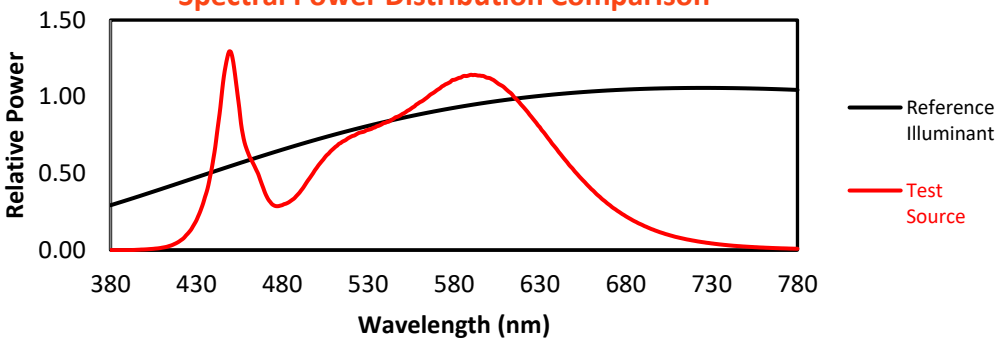
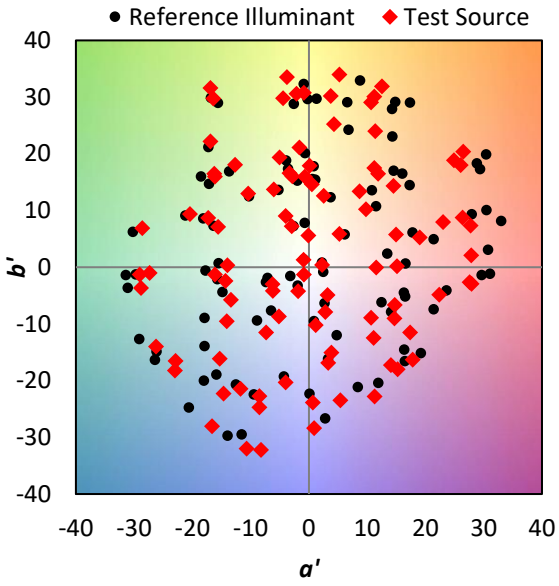
Summary

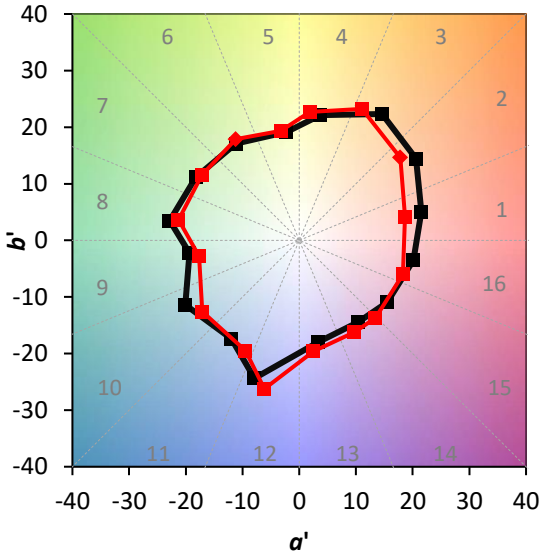
R_f = 82.6
R_g = 95.1
CIE R_a = 80.6
R_9 = -5.8

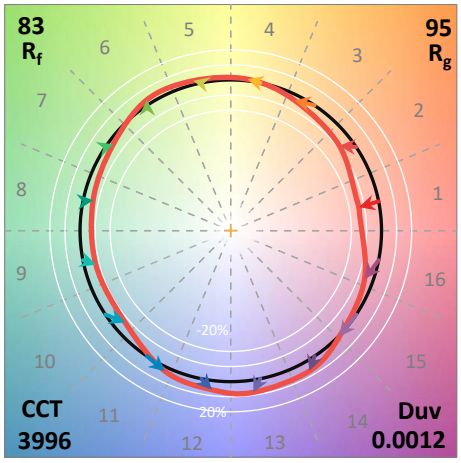
Spectral Power Distribution Comparison

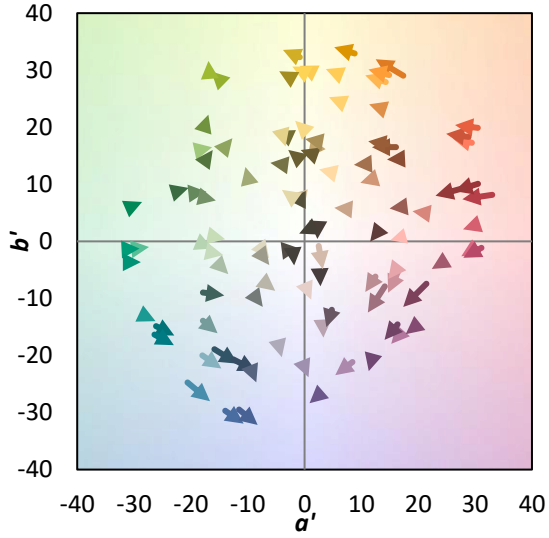


Color Vector Graphics









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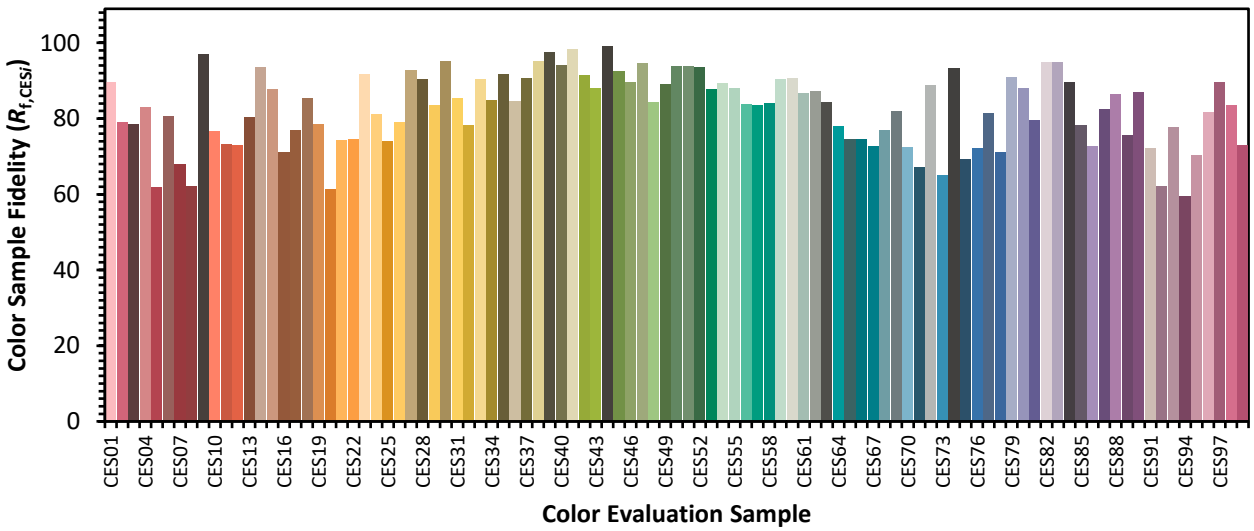
Individual Sample Fidelity Index ($R_{f,i}$)

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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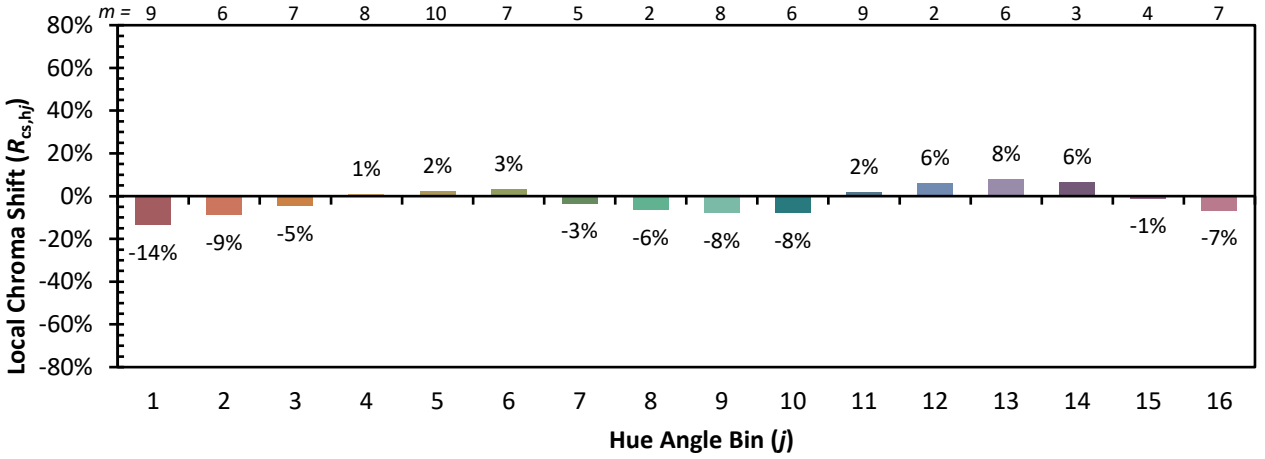
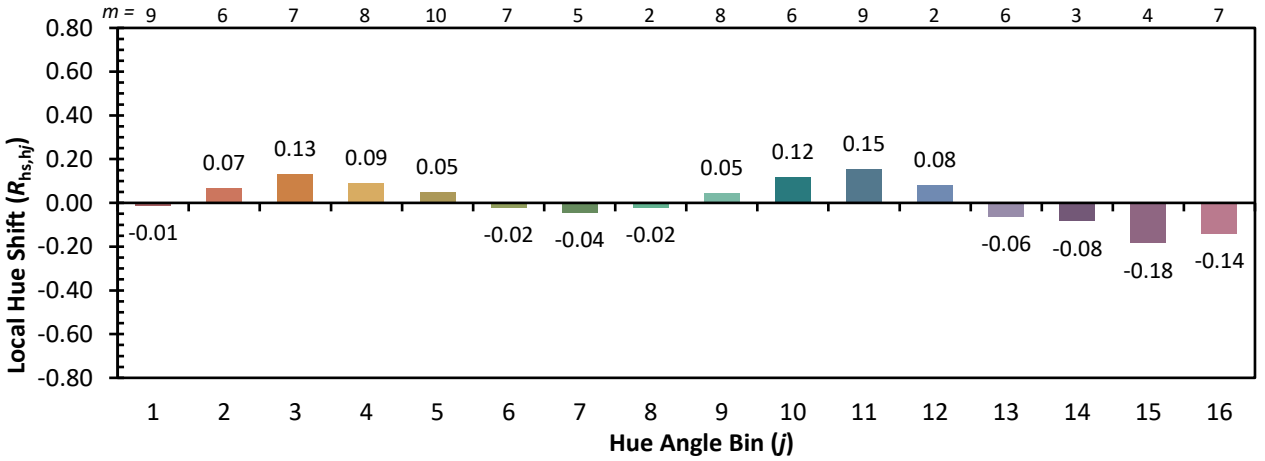
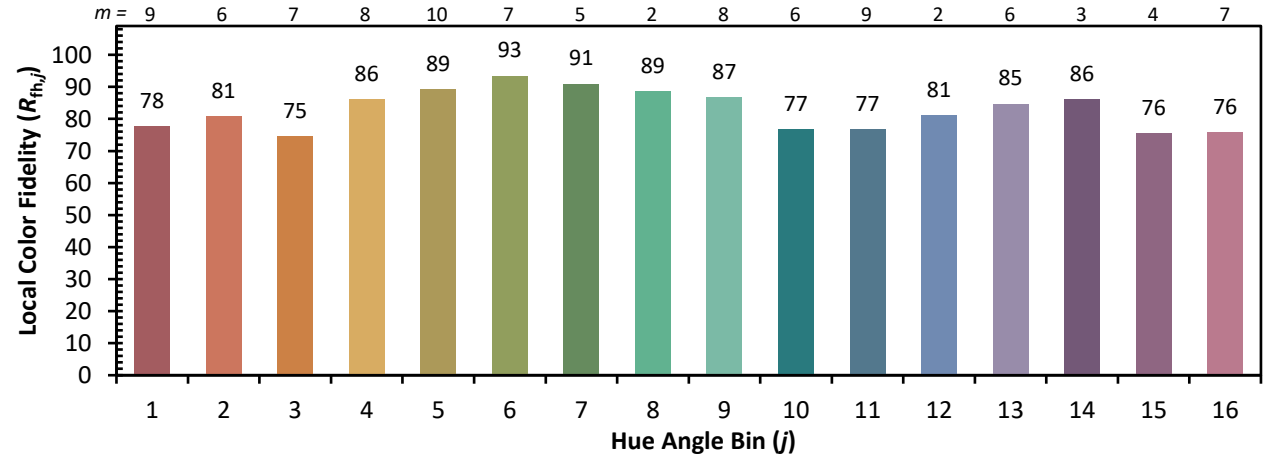
Color Rendition by Hue-Angle Bin







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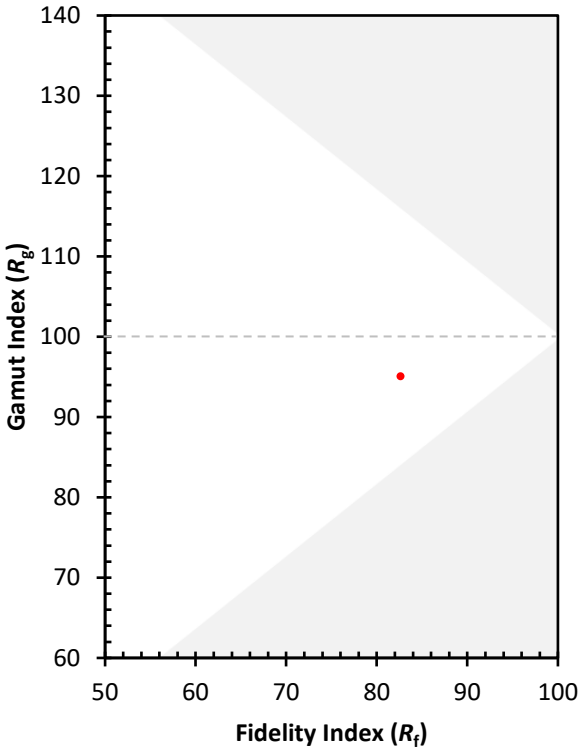
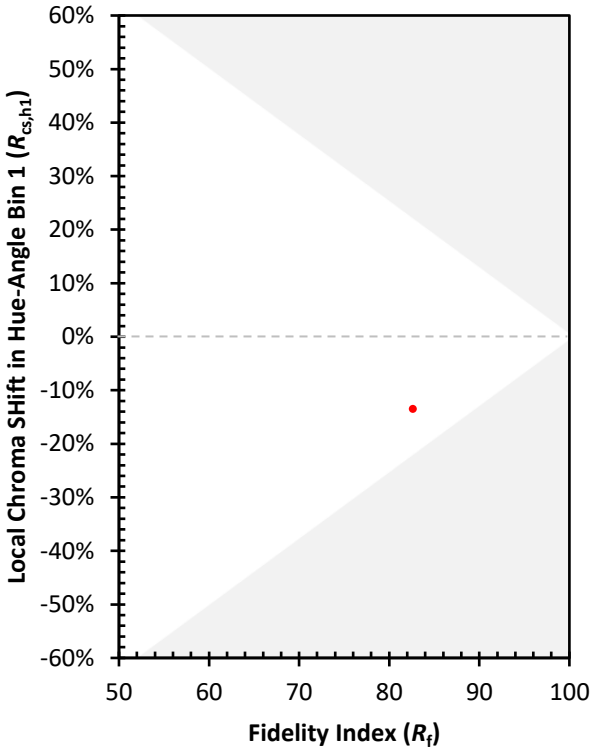
Measure Comparisons





(END OF REPORT)