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: P867889

Luminaire Tested: **MEM2-HSN-SA-130-722-U-T2R**

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:	P867889
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-130-722-U-T2R
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 130W 70CRI 2200K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source:	(30) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16500 lumens
Efficiency:	N/A
Efficacy:	123.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	134
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.70%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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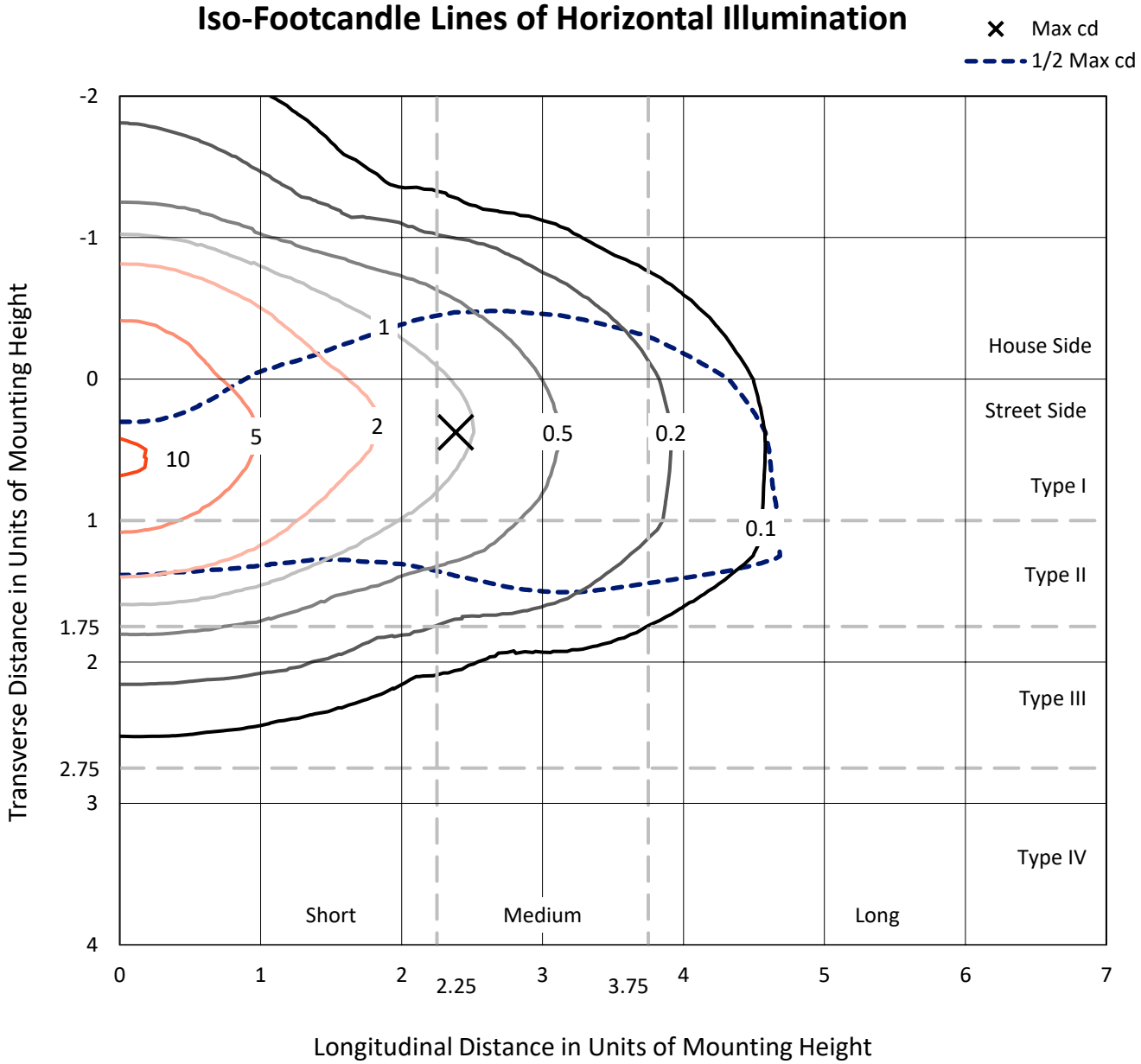
REPORT NUMBER: P867889
CATALOG NUMBER: MEM2-HSN-SA-130-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Medium - N/A

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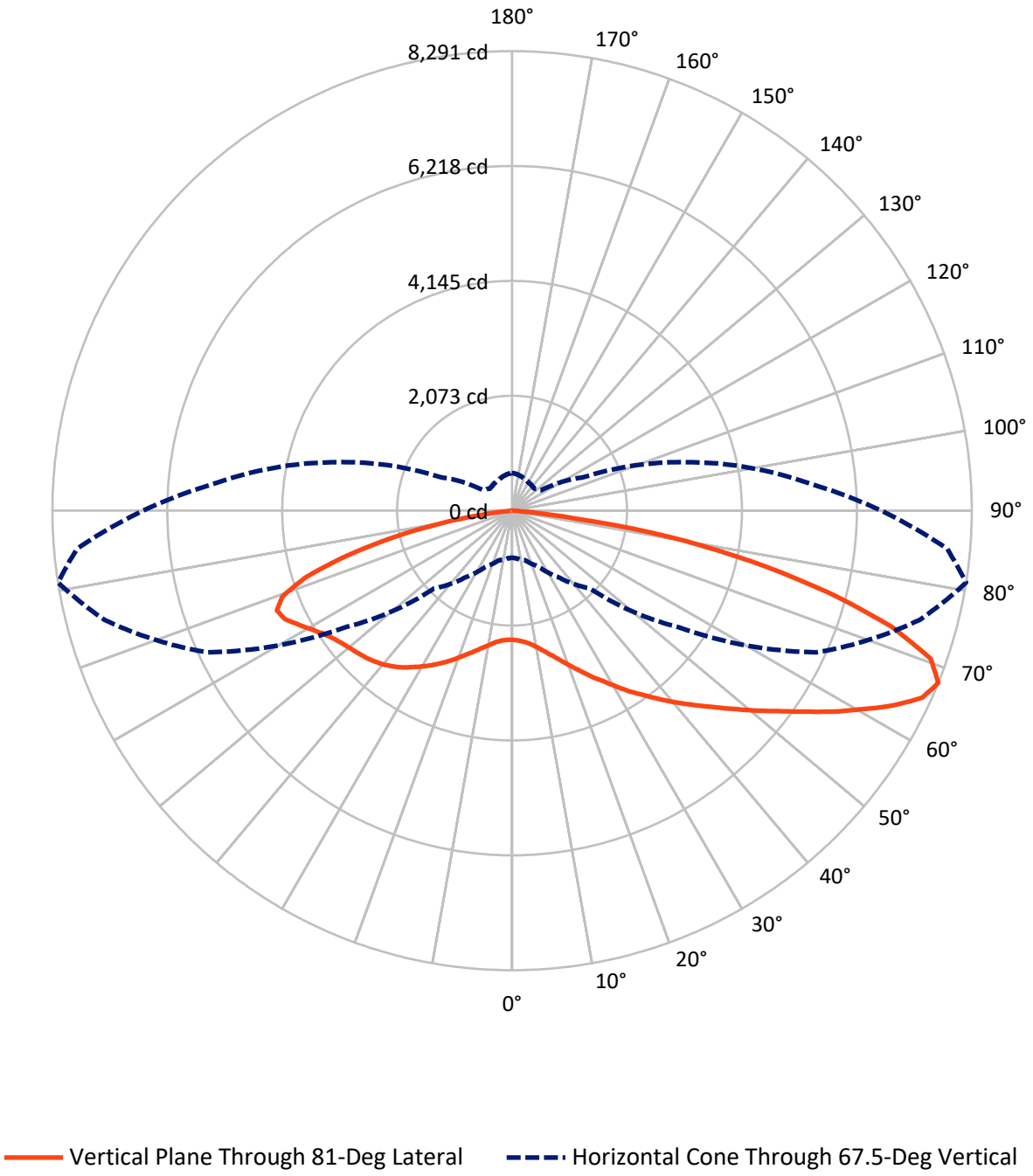
Luminous Intensity Polar Plot



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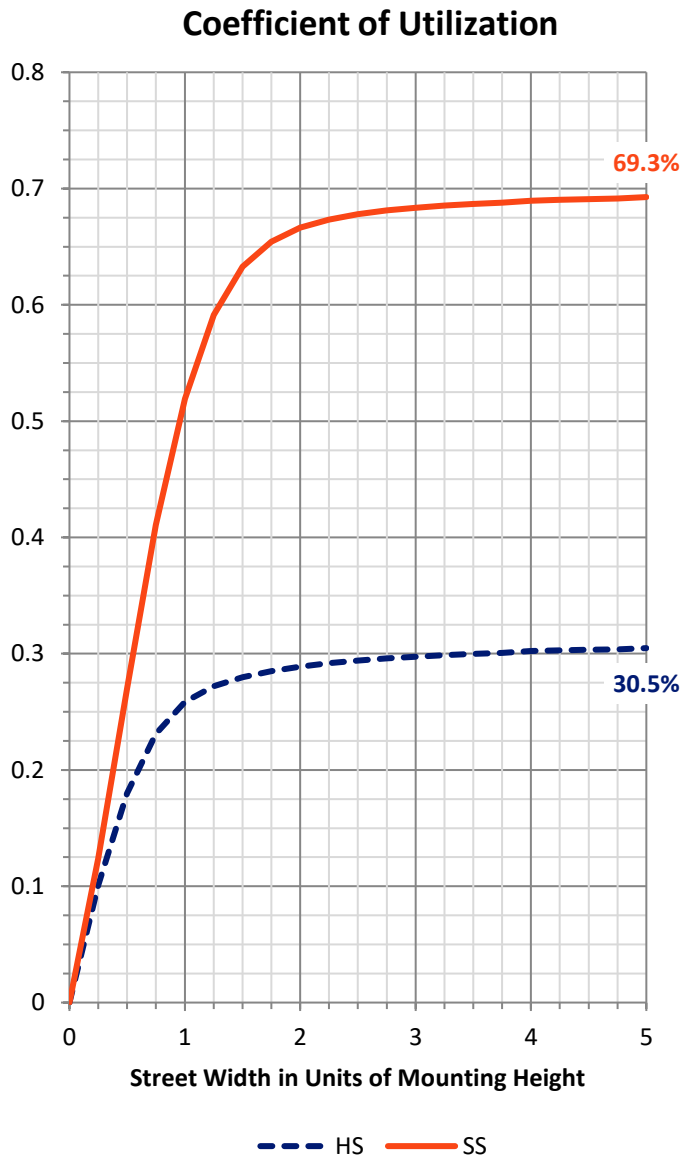
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5056.0	0.0	5056.0
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	11444.0	0.0	11444.0
	% Fixture	69.4	0.0	69.4
Total	Lumens	16500.0	0.0	16500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.4
10°-20°	843.3	5.1
20°-30°	1679.5	10.2
30°-40°	2638.6	16.0
40°-50°	3272.3	19.8
50°-60°	3198.8	19.4
60°-70°	2690.0	16.3
70°-80°	1709.3	10.4
80°-90°	230.7	1.4
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°	16500.0	100.0
0°-180°	16500.0	100.0



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REPORT NUMBER: P867889
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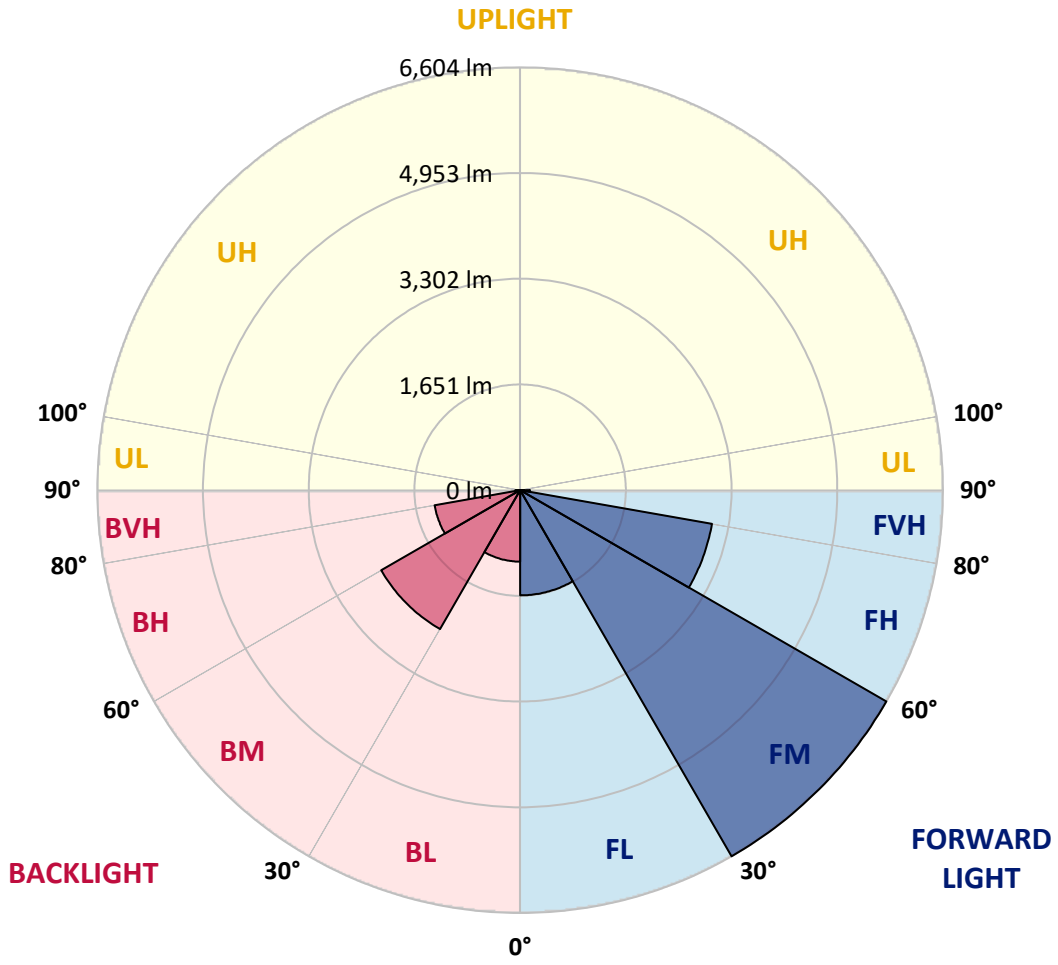
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1643.5	10.0			
FM	(30°-60°)	6603.8	40.0			
FH	(60°-80°)	3042.1	18.4			G2/5000
FVH	(80°-90°)	154.6	0.9			G2/225
BL	(0°-30°)	1116.8	6.8	B3/2500		
BM	(30°-60°)	2505.9	15.2	B3/5000		
BH	(60°-80°)	1357.2	8.2	B3/2500		G3/2500
BVH	(80°-90°)	76.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	*2329.5*	2329.5
2.5°	2411.3	2408.0	2408.0	2381.9	2381.9	2375.3	2378.6	2359.0	2349.1	*2345.9*	2342.6
5°	2584.7	2584.7	2565.1	2548.7	2516.0	2486.6	2460.4	2421.1	2391.7	*2378.6*	2368.8
7.5°	2846.5	2826.8	2820.3	2771.2	2702.5	2643.6	2591.3	2506.2	2450.6	*2430.9*	2417.8
10°	3167.1	3140.9	3091.8	3036.2	2947.9	2859.5	2754.8	2640.3	2548.7	*2509.5*	2493.1
12.5°	3497.5	3461.5	3392.8	3340.5	3226.0	3091.8	2944.6	2787.6	2660.0	*2604.3*	2574.9
15°	3860.7	3841.1	3759.3	3654.6	3520.4	3330.7	3147.5	2954.4	2790.8	*2712.3*	2663.2
17.5°	4253.3	4223.9	4135.5	4007.9	3818.2	3592.4	3379.8	3131.1	2941.3	*2839.9*	2784.3
20°	4639.4	4632.8	4502.0	4380.9	4158.4	3877.1	3602.2	3340.5	3101.7	*2983.9*	2911.9
22.5°	5071.3	5028.7	4914.2	4744.1	4479.1	4220.6	3896.7	3556.4	3275.1	*3137.6*	3055.8
25°	5519.5	5516.2	5375.5	5166.1	4855.3	4528.1	4178.1	3801.8	3481.2	*3314.3*	3206.3
27.5°	6075.7	6033.2	5853.2	5614.4	5254.5	4878.2	4472.5	4057.0	3677.5	*3477.9*	3347.0
30°	6563.2	6550.1	6347.3	6079.0	5676.5	5228.3	4789.9	4344.9	3909.8	*3674.2*	3530.3
32.5°	6959.1	6942.7	6769.3	6501.0	6069.2	5604.6	5100.7	4616.5	4142.1	*3886.9*	3697.1
35°	7289.5	7263.4	7083.4	6815.1	6442.1	5971.0	5434.4	4901.1	4397.3	*4086.5*	3906.5
37.5°	7420.4	7397.5	7250.3	7027.8	6684.3	6252.4	5735.4	5215.2	4652.5	*4312.2*	4109.4
40°	7371.3	7358.2	7253.5	7099.8	6838.0	6478.1	6023.4	5542.4	4940.4	*4551.1*	4308.9
42.5°	7139.0	7139.0	7073.6	6995.1	6864.2	6605.7	6278.6	5856.5	5218.5	*4789.9*	4498.7
45°	6811.9	6798.8	6775.9	6746.4	6726.8	6628.6	6445.4	6128.1	5526.0	*5051.6*	4727.7
47.5°	6376.7	6386.5	6370.2	6383.3	6465.0	6527.2	6517.4	6380.0	5840.1	*5339.6*	4953.5
50°	5692.9	5738.7	5791.1	5944.8	6111.7	6285.1	6445.4	6559.9	6209.8	*5666.7*	5215.2
52.5°	4845.5	4865.1	5005.8	5369.0	5725.6	5954.6	6258.9	6641.7	6537.0	*6007.0*	5522.8
55°	3801.8	3837.8	4050.5	4564.1	5198.9	5637.3	5993.9	6605.7	6870.7	*6396.3*	5882.7
57.5°	2725.4	2748.3	3088.6	3618.6	4446.4	5182.5	5692.9	6461.8	7139.0	*6838.0*	6252.4
60°	1936.9	1979.4	2198.6	2715.6	3510.6	4554.3	5418.1	6252.4	7387.7	*7269.9*	6736.6
62.5°	1429.8	1452.7	1606.4	1982.7	2637.1	3697.1	5061.5	6098.6	7551.3	*7734.5*	7220.8
65°	1076.4	1086.2	1190.9	1449.4	1972.9	2725.4	4498.7	6069.2	7642.9	*8130.4*	7649.4
67.5°	*847.4*	*863.8*	*929.2*	*1105.9*	*1469.0*	*1982.7*	*3664.4*	*6049.5*	*7610.2*	*8290.7*	*7875.2*
70°	713.2	716.5	765.6	863.8	1099.3	1426.5	2738.5	5755.1	7427.0	*8009.3*	7665.8
72.5°	618.4	618.4	641.3	719.8	883.4	1079.7	1864.9	5051.6	6962.4	*7155.4*	6939.5
75°	500.6	497.3	536.6	611.8	710.0	831.0	1253.1	3824.7	5987.4	*5889.2*	5712.5
77.5°	435.1	431.9	464.6	530.0	585.6	664.2	857.2	2483.3	4711.4	*4416.9*	4305.7
80°	373.0	363.2	389.3	451.5	481.0	516.9	592.2	1446.1	3078.7	*2895.5*	2761.4
82.5°	281.4	258.5	251.9	304.3	323.9	301.0	301.0	507.1	1119.0	*1128.8*	1043.7
85°	22.9	26.2	32.7	39.3	55.6	62.2	65.4	108.0	166.9	*160.3*	163.6
87.5°	3.3	3.3	3.3	6.5	6.5	9.8	9.8	9.8	13.1	*13.1*	13.1
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: P867889
CATALOG NUMBER: MEM2-HSN-SA-130-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5	2329.5
2.5°	2339.3	2332.8	2326.2	2326.2	2326.2	2319.7	2316.4	2316.4	2313.2	2303.3	2300.1
5°	2362.2	2352.4	2342.6	2342.6	2342.6	2339.3	2336.1	2339.3	2336.1	2326.2	2323.0
7.5°	2408.0	2394.9	2381.9	2381.9	2388.4	2385.1	2385.1	2388.4	2385.1	2375.3	2372.0
10°	2473.5	2453.8	2447.3	2447.3	2453.8	2450.6	2447.3	2447.3	2444.0	2427.7	2434.2
12.5°	2545.4	2525.8	2519.3	2522.5	2519.3	2512.7	2516.0	2506.2	2502.9	2476.7	2473.5
15°	2637.1	2614.2	2601.1	2604.3	2594.5	2581.4	2568.4	2561.8	2548.7	2525.8	2519.3
17.5°	2741.8	2705.8	2689.4	2689.4	2669.8	2643.6	2624.0	2604.3	2584.7	2558.5	2552.0
20°	2843.2	2810.5	2784.3	2777.7	2738.5	2696.0	2660.0	2627.2	2604.3	2574.9	2568.4
22.5°	2970.8	2925.0	2889.0	2859.5	2800.6	2731.9	2676.3	2630.5	2597.8	2565.1	2555.3
25°	3104.9	3039.5	2980.6	2925.0	2843.2	2745.0	2666.5	2601.1	2558.5	2522.5	2516.0
27.5°	3239.1	3154.0	3068.9	2980.6	2856.3	2728.7	2617.4	2538.9	2483.3	2437.5	2430.9
30°	3383.0	3278.3	3144.2	3016.6	2853.0	2686.1	2545.4	2434.2	2368.8	2316.4	2309.9
32.5°	3530.3	3399.4	3216.2	3042.8	2836.6	2624.0	2440.8	2323.0	2241.2	2182.3	2165.9
35°	3693.8	3533.5	3281.6	3052.6	2790.8	2532.4	2329.5	2182.3	2087.4	2028.5	2015.4
37.5°	3860.7	3657.9	3324.1	3046.0	2725.4	2424.4	2185.6	2035.0	1923.8	1842.0	1828.9
40°	4030.8	3772.4	3350.3	3013.3	2633.8	2290.2	2051.4	1868.2	1707.9	1632.6	1596.6
42.5°	4187.9	3877.1	3363.4	2967.5	2532.4	2149.6	1874.7	1635.9	1485.4	1403.6	1420.0
45°	4351.5	3975.2	3366.7	2911.9	2398.2	1969.6	1652.3	1429.8	1279.3	1217.1	1210.6
47.5°	4492.2	4057.0	3360.1	2833.4	2247.7	1763.5	1420.0	1207.3	1096.0	1037.2	1030.6
50°	4678.7	4148.6	3350.3	2741.8	2051.4	1527.9	1204.0	1030.6	929.2	883.4	880.1
52.5°	4865.1	4250.0	3343.8	2614.2	1845.3	1305.4	1007.7	870.3	801.6	778.7	772.1
55°	5110.5	4374.4	3347.0	2466.9	1609.7	1076.4	853.9	759.1	723.1	713.2	713.2
57.5°	5391.9	4534.7	3366.7	2303.3	1364.3	889.9	742.7	700.2	696.9	703.4	706.7
60°	5732.2	4747.4	3405.9	2133.2	1138.6	752.5	677.3	674.0	683.8	706.7	713.2
62.5°	6115.0	4979.7	3455.0	1910.7	922.6	660.9	641.3	654.4	667.4	693.6	696.9
65°	6452.0	5241.4	3484.5	1698.1	772.1	608.6	618.4	624.9	657.6	693.6	693.6
67.5°	*6654.8*	*5431.2*	*3373.2*	*1429.8*	*644.5*	*562.7*	*582.4*	*602.0*	*638.0*	*670.7*	*677.3*
70°	6586.1	5369.0	2993.7	1109.1	546.4	520.2	543.1	572.6	608.6	647.8	667.4
72.5°	6108.4	4927.3	2430.9	808.1	474.4	481.0	510.4	549.7	582.4	624.9	651.1
75°	5107.3	4112.6	1753.7	582.4	415.5	441.7	487.5	520.2	543.1	552.9	556.2
77.5°	3877.1	3023.1	1194.2	435.1	359.9	395.9	445.0	481.0	487.5	494.0	500.6
80°	2532.4	1923.8	674.0	304.3	274.8	323.9	363.2	402.4	389.3	409.0	415.5
82.5°	1069.9	840.8	307.5	150.5	127.6	137.4	147.2	130.9	121.1	121.1	104.7
85°	140.7	108.0	45.8	19.6	16.4	9.8	9.8	9.8	6.5	6.5	6.5
87.5°	13.1	13.1	9.8	9.8	6.5	6.5	3.3	6.5	3.3	3.3	3.3
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: SP1-2407-157-2

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-30-722-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-30-722-U-5WQ-2

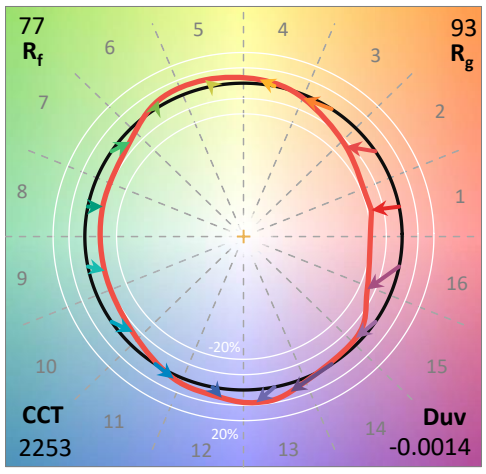
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-30-722-U-5WQ-2**
Description:	Epic Modern Light Square 30W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	2253	CRI (Ra):	70.6		
CIE u':	0.2868	R1:	68.4	R9:	-36.0
CIE v':	0.5332	R2:	88.7	R10:	78.2
Duv:	-0.0014	R3:	85.4	R11:	61.0
CIE x:	0.4974	R4:	63.5	R12:	74.2
CIE y:	0.4110	R5:	69.0	R13:	72.8
CIE z:	0.0915	R6:	88.9	R14:	92.2
Peak Wavelength (nm):	603	R7:	68.5	R15:	58.0
Dominant Wavelength (nm):	587	R8:	32.0		
Purity:	72.69432				
Rf:	76.9				
Rg:	92.7				



Test Conditions

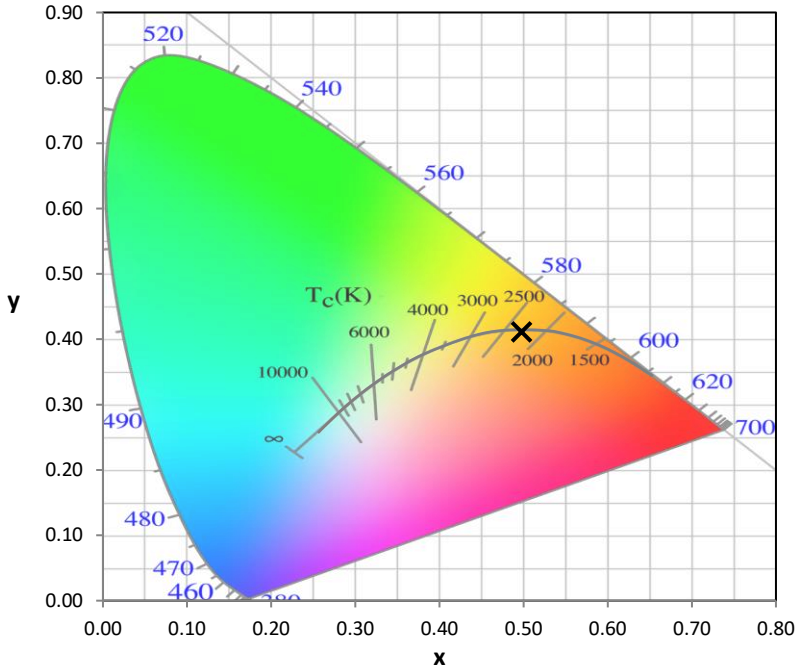
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	24.1

REPORT NUMBER: SP1-2407-157-2

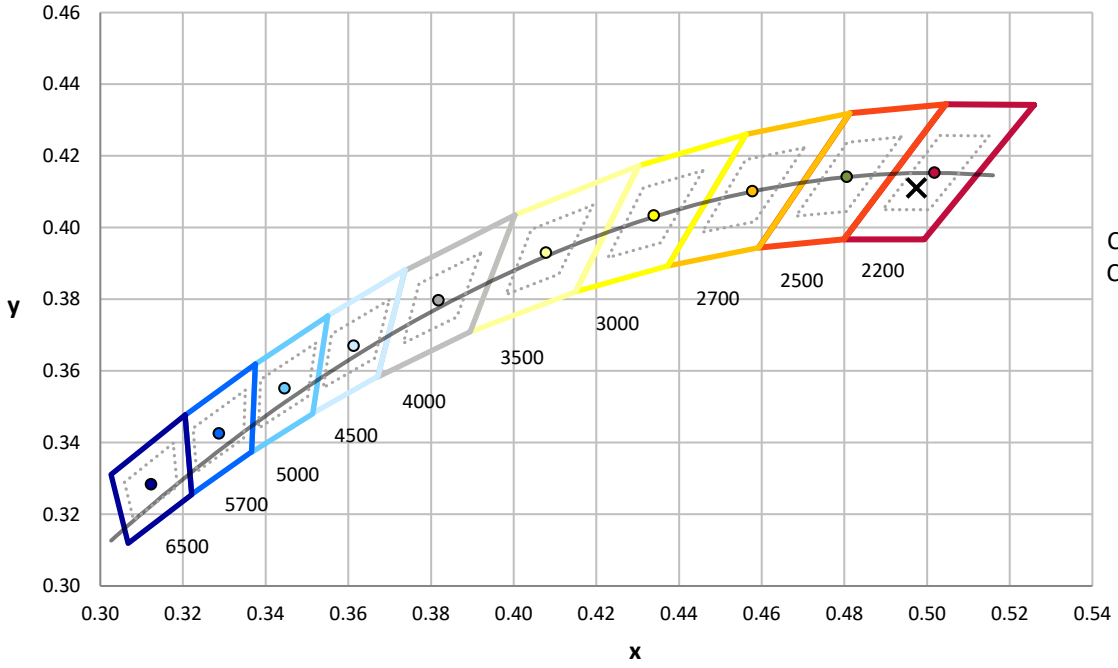
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-2

CIE 1931 Chromaticity Diagram



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

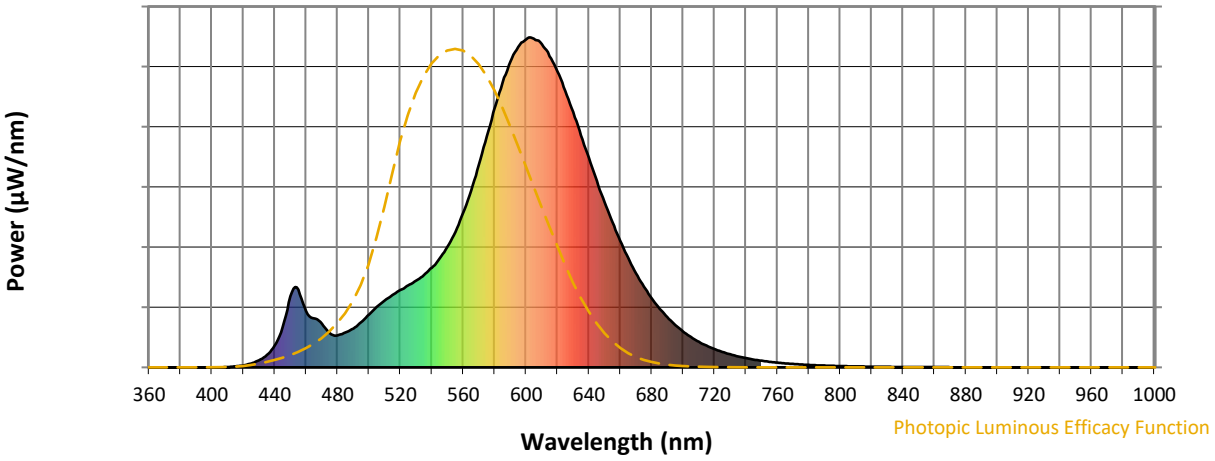


CCT = 2253K
CIE x = 0.4974
CIE y = 0.4110
Duv = -0.0014

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-2

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	117	NR	620	896	NR	750	20	NR	880	0	NR
365	0	NR	495	137	NR	625	838	NR	755	17	NR	885	0	NR
370	0	NR	500	160	NR	630	774	NR	760	14	NR	890	0	NR
375	0	NR	505	183	NR	635	704	NR	765	12	NR	895	0	NR
380	0	NR	510	202	NR	640	635	NR	770	10	NR	900	0	NR
385	0	NR	515	219	NR	645	565	NR	775	9	NR	905	0	NR
390	0	NR	520	235	NR	650	501	NR	780	7	NR	910	0	NR
395	0	NR	525	249	NR	655	440	NR	785	6	NR	915	0	NR
400	0	NR	530	263	NR	660	383	NR	790	5	NR	920	0	NR
405	0	NR	535	281	NR	665	332	NR	795	5	NR	925	0	NR
410	1	NR	540	302	NR	670	286	NR	800	4	NR	930	0	NR
415	3	NR	545	331	NR	675	245	NR	805	3	NR	935	0	NR
420	6	NR	550	366	NR	680	210	NR	810	3	NR	940	0	NR
425	12	NR	555	411	NR	685	178	NR	815	3	NR	945	0	NR
430	21	NR	560	469	NR	690	152	NR	820	2	NR	950	0	NR
435	38	NR	565	536	NR	695	129	NR	825	2	NR	955	0	NR
440	66	NR	570	614	NR	700	109	NR	830	2	NR	960	0	NR
445	122	NR	575	701	NR	705	92	NR	835	1	NR	965	0	NR
450	215	NR	580	785	NR	710	77	NR	840	1	NR	970	0	NR
455	236	NR	585	863	NR	715	66	NR	845	1	NR	975	0	NR
460	170	NR	590	928	NR	720	55	NR	850	1	NR	980	0	NR
465	148	NR	595	971	NR	725	47	NR	855	1	NR	985	0	NR
470	132	NR	600	994	NR	730	40	NR	860	1	NR	990	0	NR
475	104	NR	605	996	NR	735	33	NR	865	1	NR	995	0	NR
480	97	NR	610	979	NR	740	28	NR	870	1	NR	1000	0	NR
485	105	NR	615	943	NR	745	24	NR	875	0	NR			

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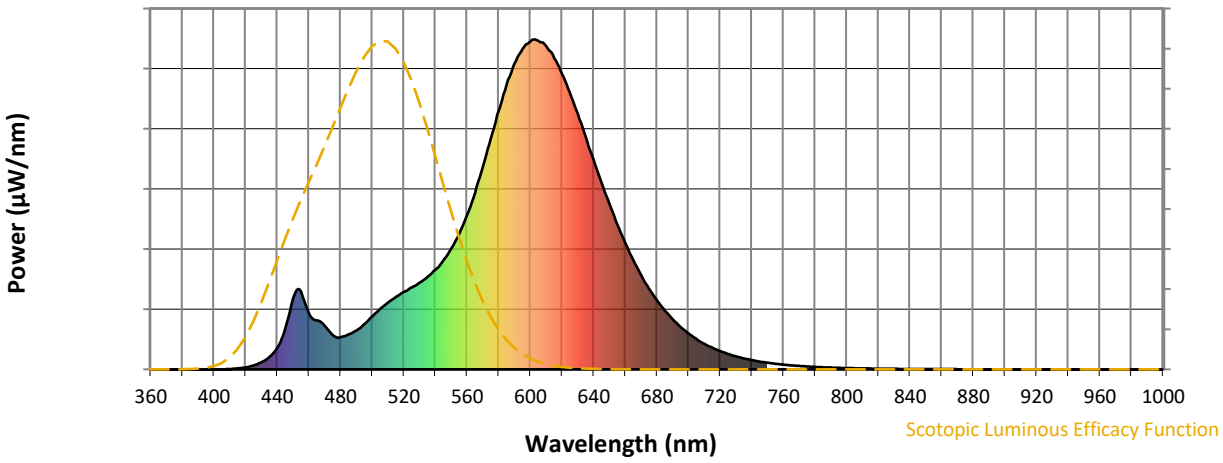
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.96**

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	117	NR	620	896	NR	750	20	NR	880	0	NR
365	0	NR	495	137	NR	625	838	NR	755	17	NR	885	0	NR
370	0	NR	500	160	NR	630	774	NR	760	14	NR	890	0	NR
375	0	NR	505	183	NR	635	704	NR	765	12	NR	895	0	NR
380	0	NR	510	202	NR	640	635	NR	770	10	NR	900	0	NR
385	0	NR	515	219	NR	645	565	NR	775	9	NR	905	0	NR
390	0	NR	520	235	NR	650	501	NR	780	7	NR	910	0	NR
395	0	NR	525	249	NR	655	440	NR	785	6	NR	915	0	NR
400	0	NR	530	263	NR	660	383	NR	790	5	NR	920	0	NR
405	0	NR	535	281	NR	665	332	NR	795	5	NR	925	0	NR
410	1	NR	540	302	NR	670	286	NR	800	4	NR	930	0	NR
415	3	NR	545	331	NR	675	245	NR	805	3	NR	935	0	NR
420	6	NR	550	366	NR	680	210	NR	810	3	NR	940	0	NR
425	12	NR	555	411	NR	685	178	NR	815	3	NR	945	0	NR
430	21	NR	560	469	NR	690	152	NR	820	2	NR	950	0	NR
435	38	NR	565	536	NR	695	129	NR	825	2	NR	955	0	NR
440	66	NR	570	614	NR	700	109	NR	830	2	NR	960	0	NR
445	122	NR	575	701	NR	705	92	NR	835	1	NR	965	0	NR
450	215	NR	580	785	NR	710	77	NR	840	1	NR	970	0	NR
455	236	NR	585	863	NR	715	66	NR	845	1	NR	975	0	NR
460	170	NR	590	928	NR	720	55	NR	850	1	NR	980	0	NR
465	148	NR	595	971	NR	725	47	NR	855	1	NR	985	0	NR
470	132	NR	600	994	NR	730	40	NR	860	1	NR	990	0	NR
475	104	NR	605	996	NR	735	33	NR	865	1	NR	995	0	NR
480	97	NR	610	979	NR	740	28	NR	870	1	NR	1000	0	NR
485	105	NR	615	943	NR	745	24	NR	875	0	NR			

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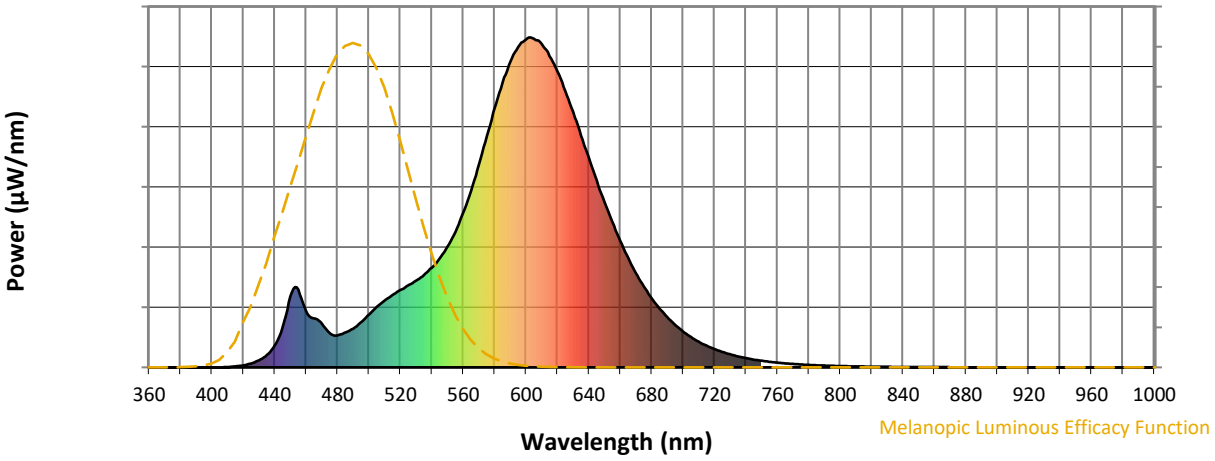
Melanopic Flux vs. Wavelength



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	117	NR	620	896	NR	750	20	NR	880	0	NR
365	0	NR	495	137	NR	625	838	NR	755	17	NR	885	0	NR
370	0	NR	500	160	NR	630	774	NR	760	14	NR	890	0	NR
375	0	NR	505	183	NR	635	704	NR	765	12	NR	895	0	NR
380	0	NR	510	202	NR	640	635	NR	770	10	NR	900	0	NR
385	0	NR	515	219	NR	645	565	NR	775	9	NR	905	0	NR
390	0	NR	520	235	NR	650	501	NR	780	7	NR	910	0	NR
395	0	NR	525	249	NR	655	440	NR	785	6	NR	915	0	NR
400	0	NR	530	263	NR	660	383	NR	790	5	NR	920	0	NR
405	0	NR	535	281	NR	665	332	NR	795	5	NR	925	0	NR
410	1	NR	540	302	NR	670	286	NR	800	4	NR	930	0	NR
415	3	NR	545	331	NR	675	245	NR	805	3	NR	935	0	NR
420	6	NR	550	366	NR	680	210	NR	810	3	NR	940	0	NR
425	12	NR	555	411	NR	685	178	NR	815	3	NR	945	0	NR
430	21	NR	560	469	NR	690	152	NR	820	2	NR	950	0	NR
435	38	NR	565	536	NR	695	129	NR	825	2	NR	955	0	NR
440	66	NR	570	614	NR	700	109	NR	830	2	NR	960	0	NR
445	122	NR	575	701	NR	705	92	NR	835	1	NR	965	0	NR
450	215	NR	580	785	NR	710	77	NR	840	1	NR	970	0	NR
455	236	NR	585	863	NR	715	66	NR	845	1	NR	975	0	NR
460	170	NR	590	928	NR	720	55	NR	850	1	NR	980	0	NR
465	148	NR	595	971	NR	725	47	NR	855	1	NR	985	0	NR
470	132	NR	600	994	NR	730	40	NR	860	1	NR	990	0	NR
475	104	NR	605	996	NR	735	33	NR	865	1	NR	995	0	NR
480	97	NR	610	979	NR	740	28	NR	870	1	NR	1000	0	NR
485	105	NR	615	943	NR	745	24	NR	875	0	NR			

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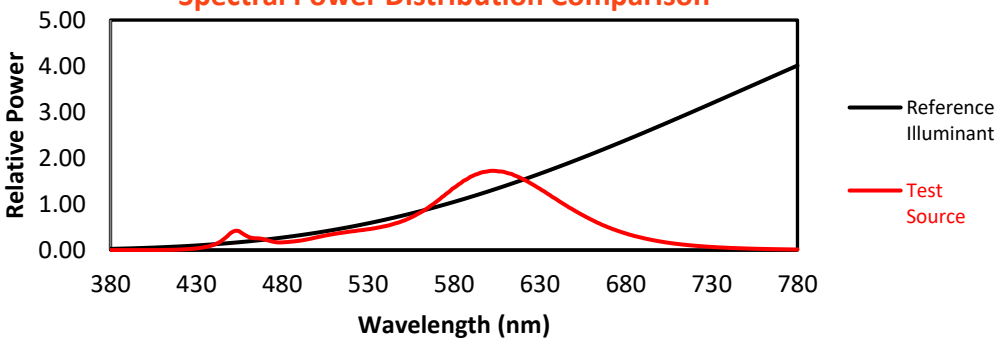
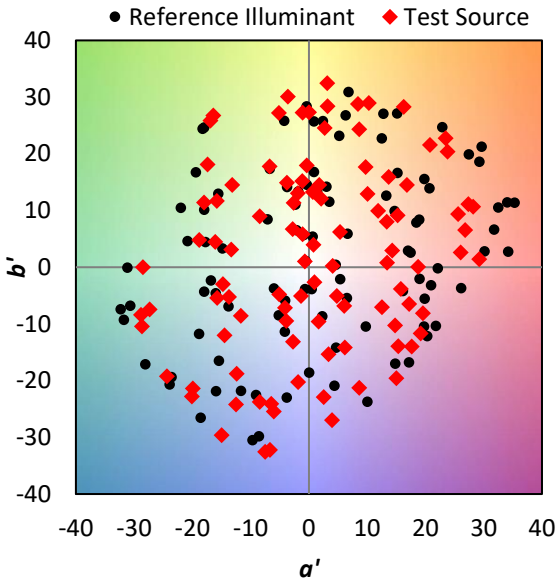
Summary

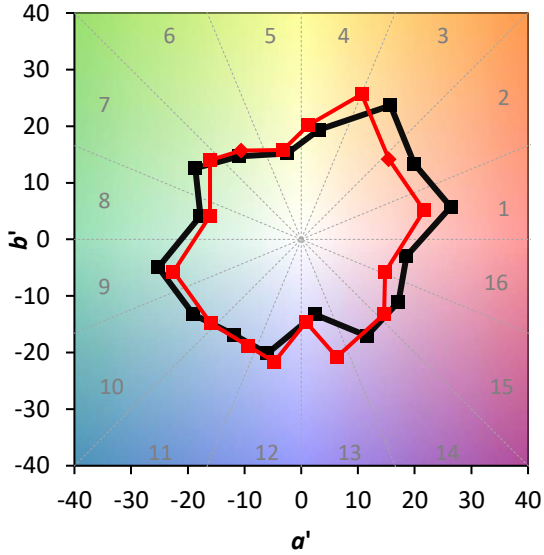
R_f = 76.9
R_g = 92.7
CIE R_a = 70.6
R_9 = -36.0

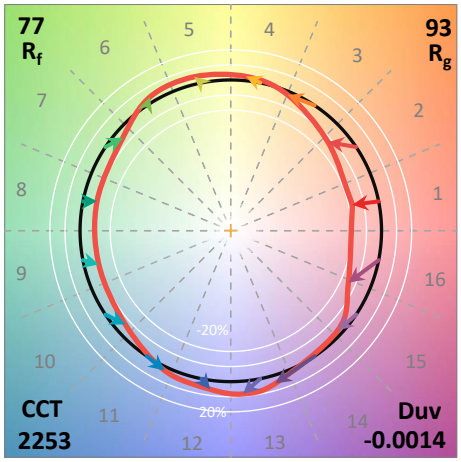
Spectral Power Distribution Comparison

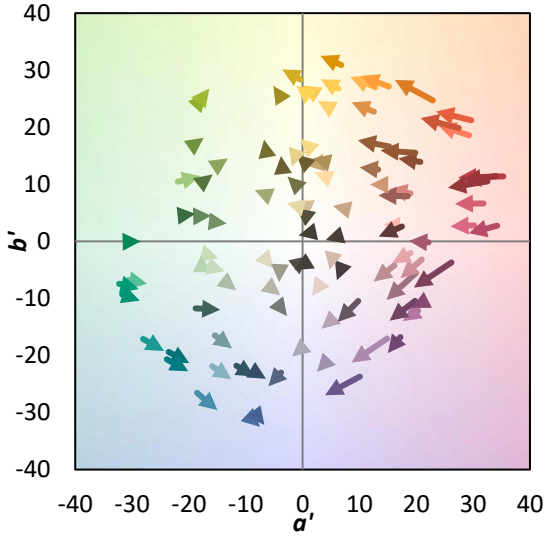


Color Vector Graphics









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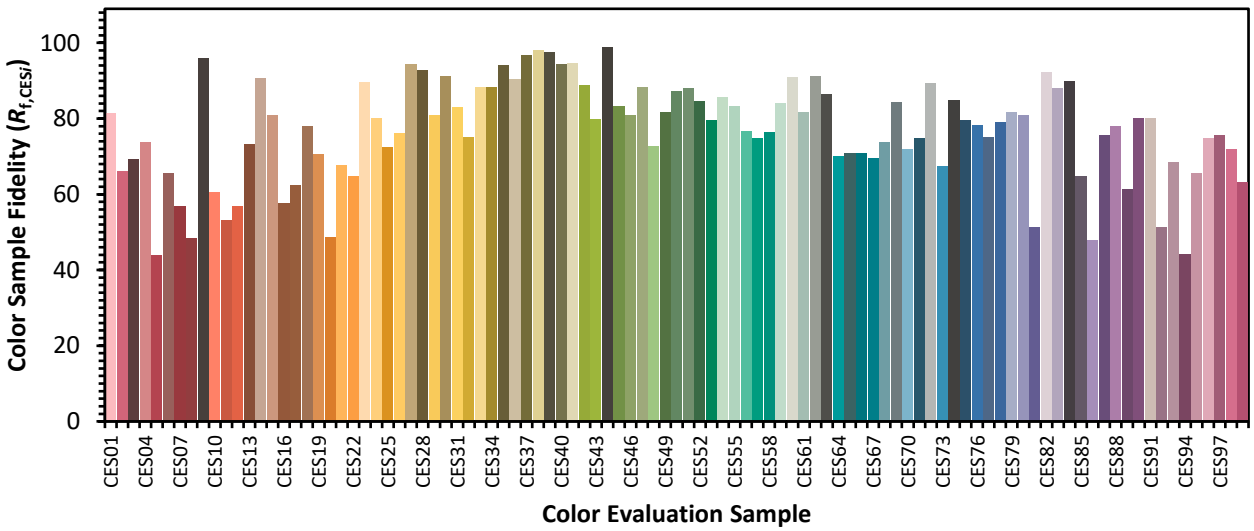
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 76	CES51 = 88	CES76 = 78
CES02 = 65	CES27 = 94	CES52 = 85	CES77 = 75
CES03 = 32	CES28 = 93	CES53 = 80	CES78 = 79
CES04 = 72	CES29 = 81	CES54 = 86	CES79 = 82
CES05 = 51	CES30 = 91	CES55 = 83	CES80 = 81
CES06 = 52	CES31 = 83	CES56 = 77	CES81 = 51
CES07 = 44	CES32 = 75	CES57 = 75	CES82 = 92
CES08 = 42	CES33 = 88	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 88	CES59 = 84	CES84 = 90
CES10 = 79	CES35 = 94	CES60 = 91	CES85 = 65
CES11 = 62	CES36 = 90	CES61 = 82	CES86 = 48
CES12 = 68	CES37 = 97	CES62 = 91	CES87 = 76
CES13 = 45	CES38 = 98	CES63 = 86	CES88 = 78
CES14 = 75	CES39 = 97	CES64 = 70	CES89 = 61
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 95	CES66 = 71	CES91 = 80
CES17 = 51	CES42 = 89	CES67 = 70	CES92 = 51
CES18 = 57	CES43 = 80	CES68 = 74	CES93 = 68
CES19 = 74	CES44 = 99	CES69 = 84	CES94 = 44
CES20 = 68	CES45 = 83	CES70 = 72	CES95 = 66
CES21 = 88	CES46 = 81	CES71 = 75	CES96 = 75
CES22 = 81	CES47 = 88	CES72 = 89	CES97 = 76
CES23 = 92	CES48 = 73	CES73 = 68	CES98 = 72
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 80	



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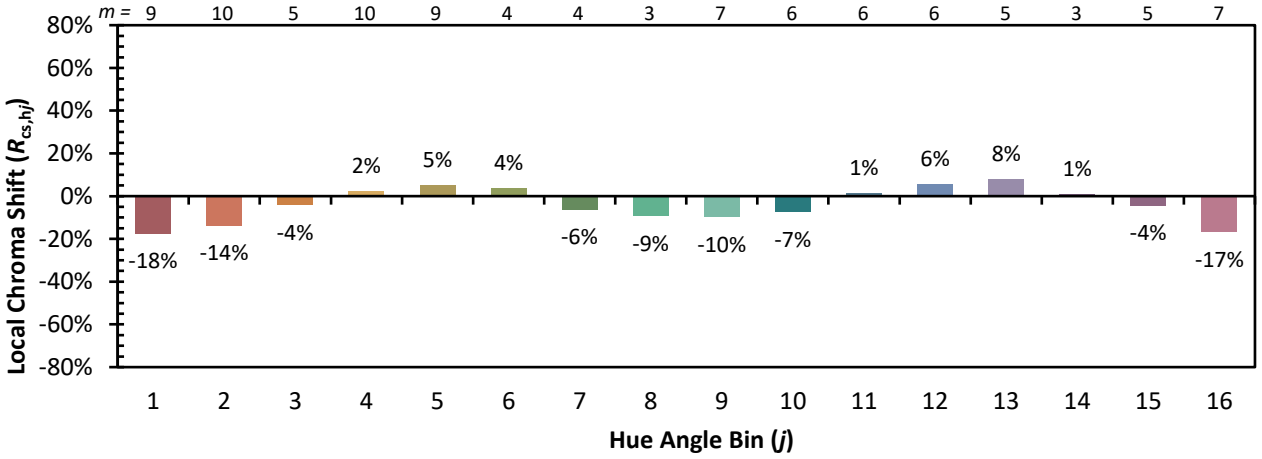
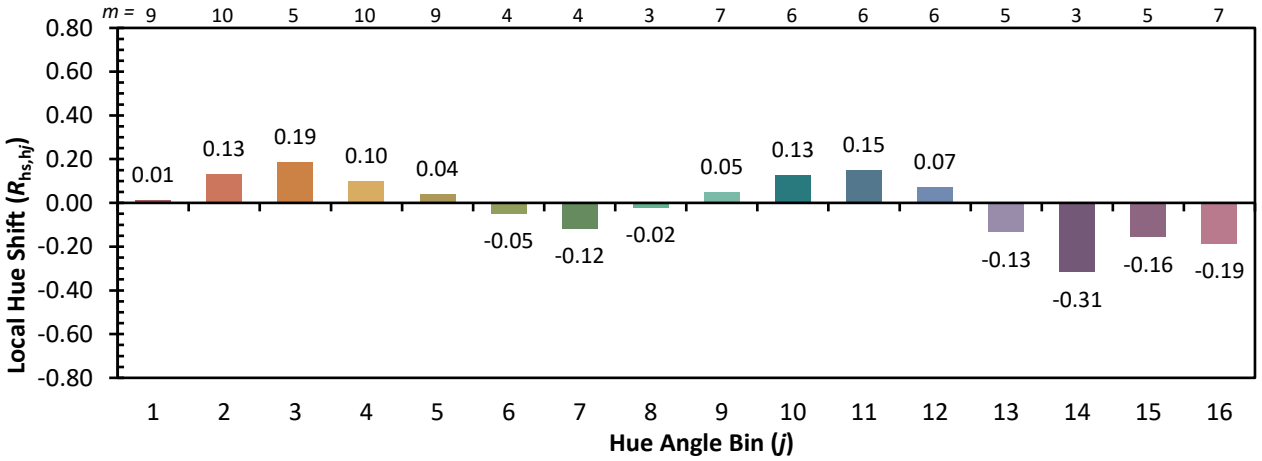
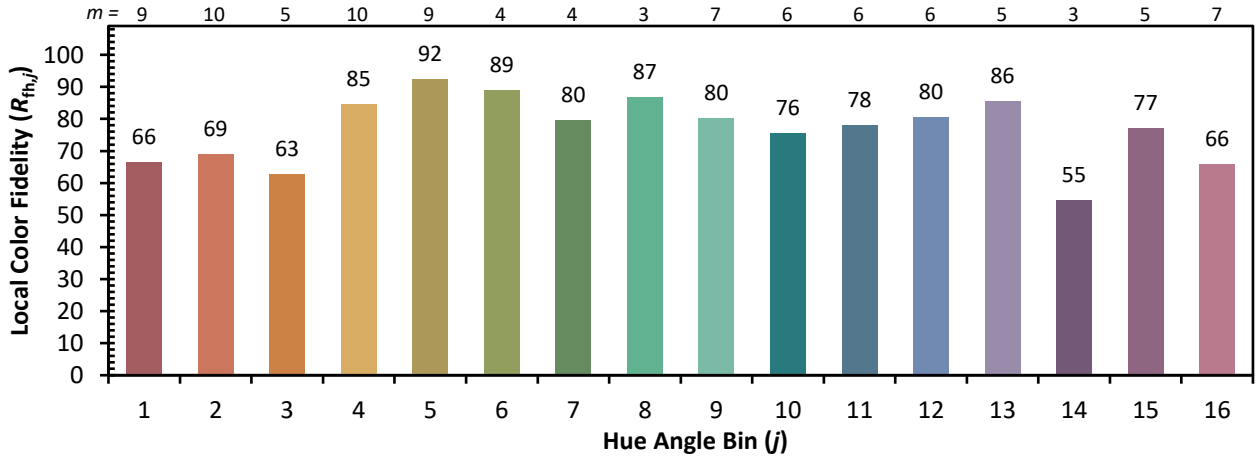
Color Rendition by Hue-Angle Bin







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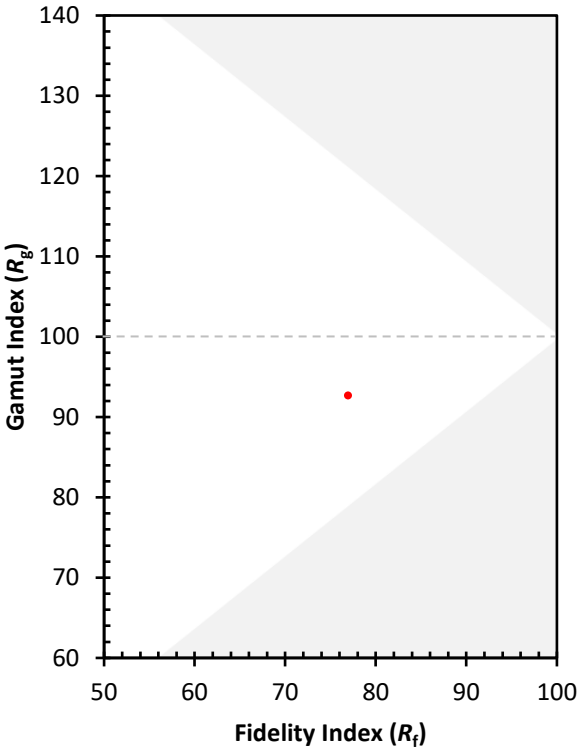
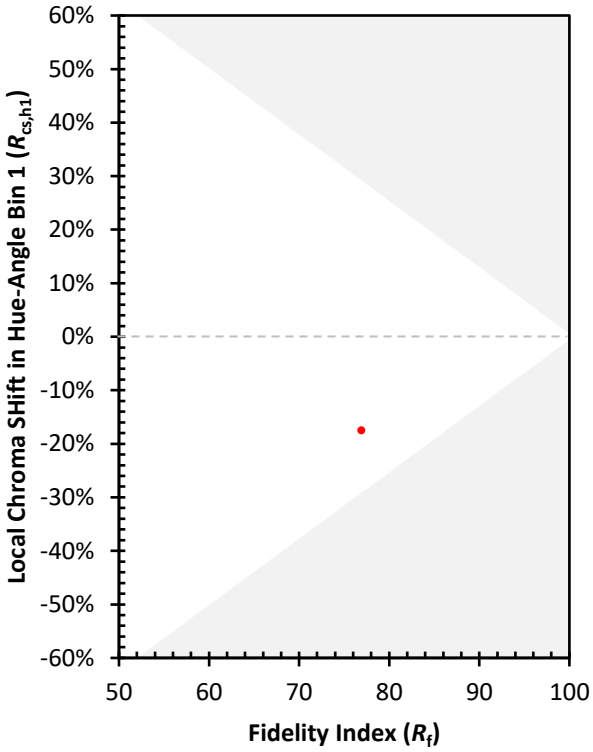
Measure Comparisons





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