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: P869805

Luminaire Tested: **MEM2-HTN-SA-90-830-U-T1**

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:	P869805
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HTN-SA-90-830-U-T1
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 90W 80CRI 3000K FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC
Light Source:	(20) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11644.9 lumens
Efficiency:	N/A
Efficacy:	129.4 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	90
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.20%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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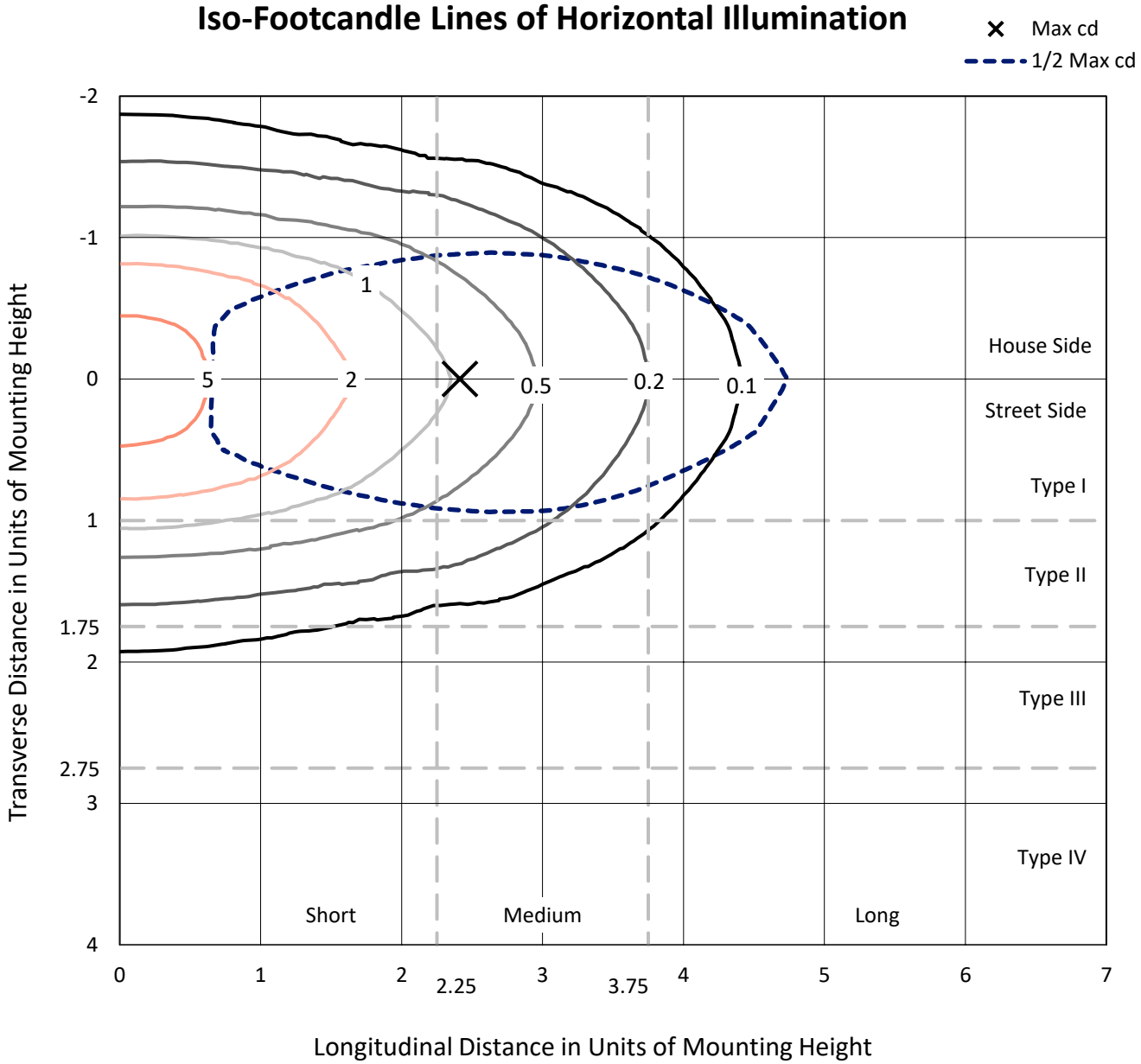
Scaled Data Report

REPORT NUMBER: P869805
CATALOG NUMBER: MEM2-HTN-SA-90-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
Type I - Short - N/A

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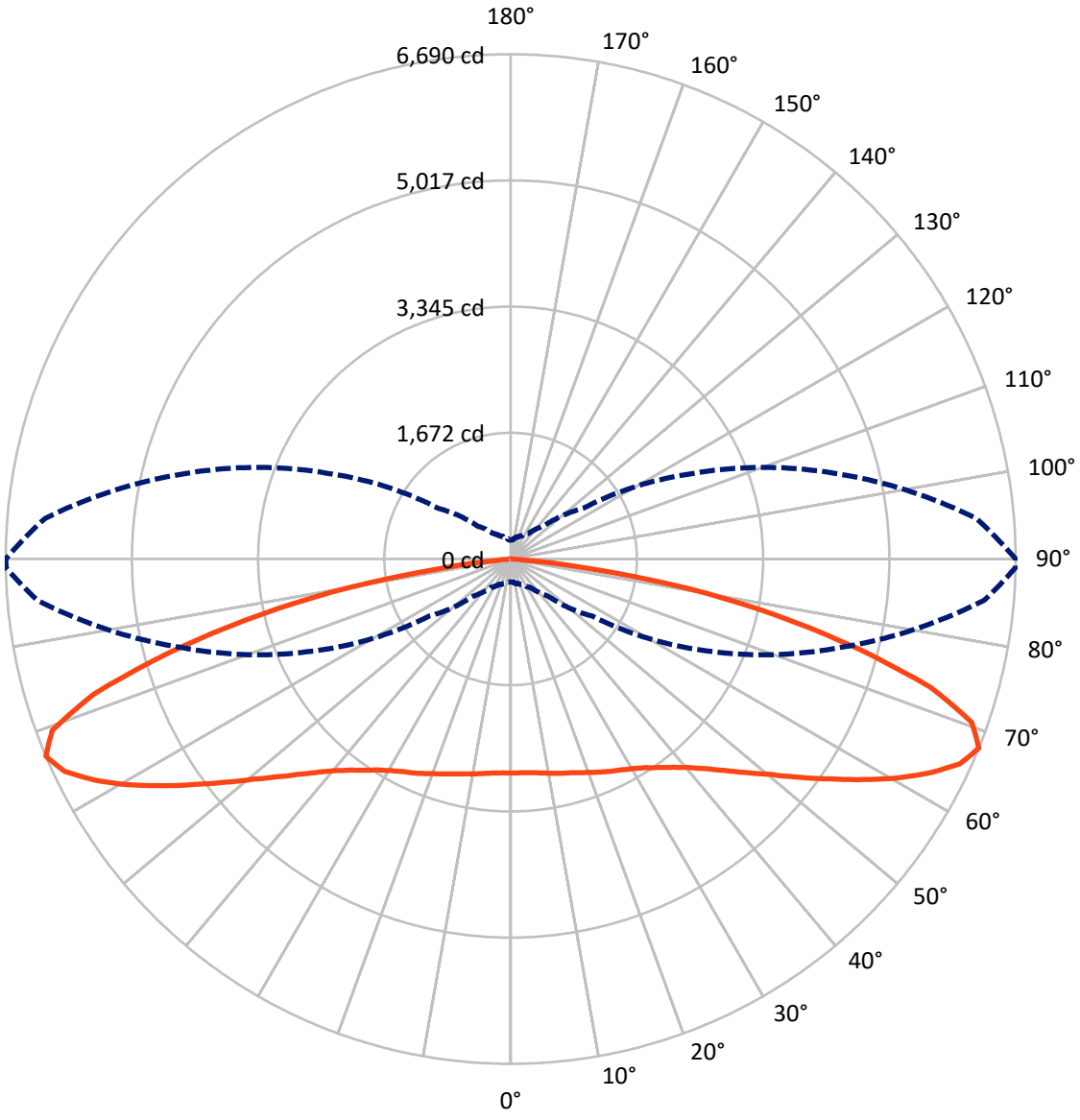
Luminous Intensity Polar Plot



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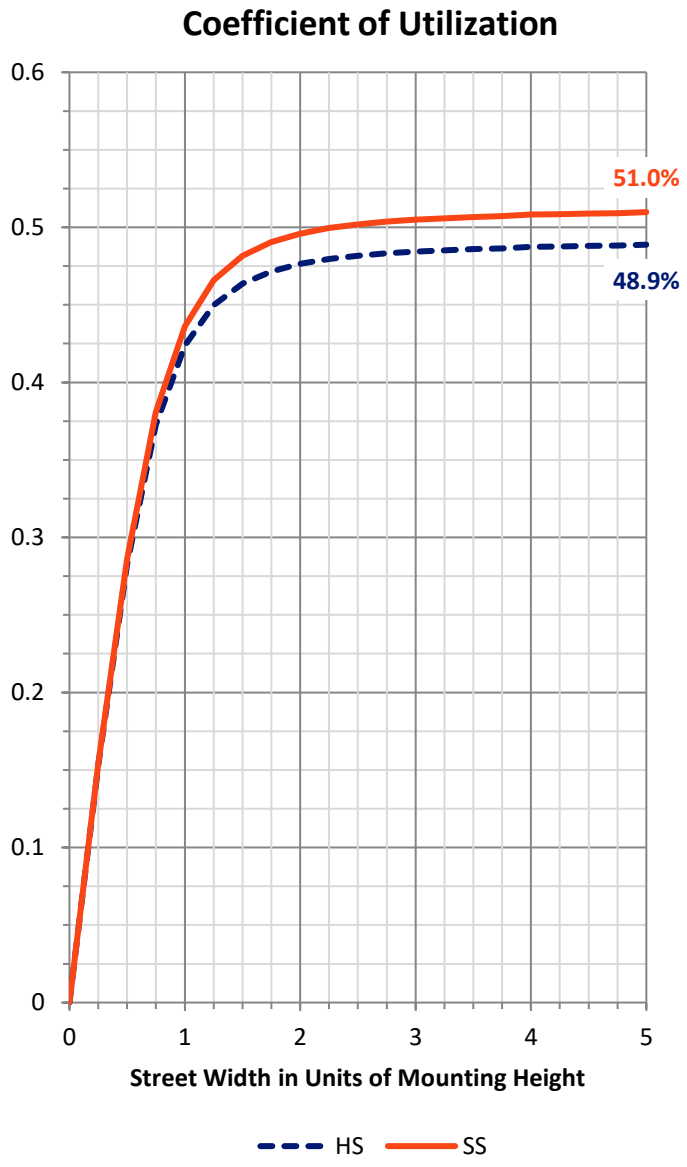
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5719.0	0.0	5719.0
	% Fixture	49.1	0.0	49.1
Street Side	Lumens	5925.8	0.0	5925.8
	% Fixture	50.9	0.0	50.9
Total	Lumens	11644.9	0.0	11644.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	2.3
10°-20°	817.1	7.0
20°-30°	1352.3	11.6
30°-40°	1793.2	15.4
40°-50°	2021.8	17.4
50°-60°	2072.6	17.8
60°-70°	1957.6	16.8
70°-80°	1201.2	10.3
80°-90°	157.2	1.3
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°	11644.9	100.0
0°-180°	11644.9	100.0



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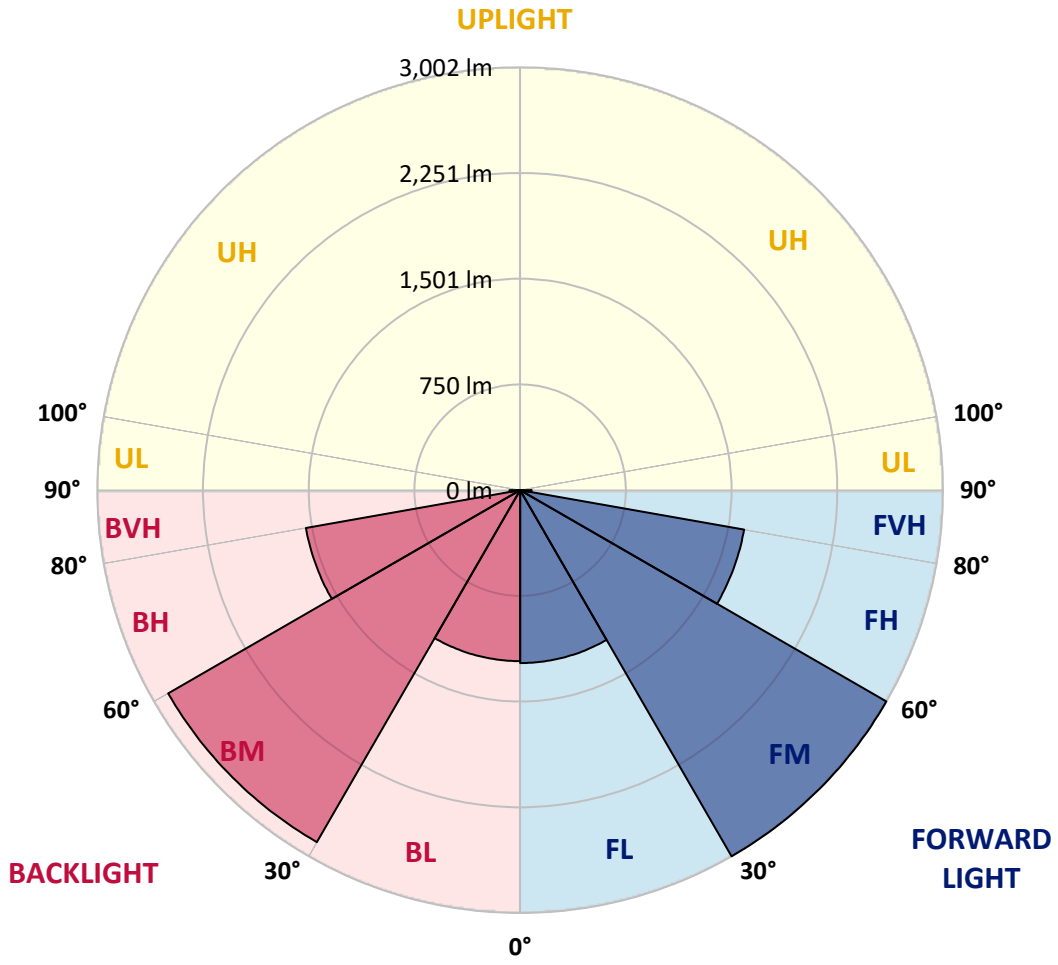
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1227.7	10.5			
FM	(30°-60°)	3001.9	25.8			
FH	(60°-80°)	1614.4	13.9			G1/1800
FVH	(80°-90°)	81.9	0.7			G1/100
BL	(0°-30°)	1213.7	10.4	B3/2500		
BM	(30°-60°)	2885.7	24.8	B3/5000		
BH	(60°-80°)	1544.4	13.3	B3/2500		G3/2500
BVH	(80°-90°)	75.3	0.6			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	2848.4	2848.4	2841.7	2830.5	2828.3	2830.5	2844.0	2837.3	2837.3	2839.5	2837.3
5°	2848.4	2848.4	2844.0	2832.8	2832.8	2832.8	2848.4	2841.7	2844.0	2846.2	2846.2
7.5°	2852.9	2852.9	2848.4	2839.5	2839.5	2839.5	2861.8	2857.4	2857.4	2864.1	2859.6
10°	2864.1	2859.6	2855.1	2857.4	2850.7	2861.8	2873.0	2875.3	2884.2	2888.7	2886.4
12.5°	2864.1	2859.6	2848.4	2861.8	2861.8	2877.5	2893.1	2902.1	2913.3	2913.3	2913.3
15°	2850.7	2846.2	2837.3	2859.6	2868.6	2888.7	2911.0	2924.5	2944.6	2944.6	2942.3
17.5°	2835.0	2828.3	2823.8	2857.4	2877.5	2904.3	2937.9	2955.8	2978.1	2980.3	2975.9
20°	2806.0	2803.7	2806.0	2850.7	2886.4	2924.5	2964.7	2989.3	3018.4	3027.3	3020.6
22.5°	2774.7	2774.7	2783.6	2844.0	2899.9	2951.3	3004.9	3036.2	3065.3	3074.2	3065.3
25°	2732.2	2732.2	2750.1	2821.6	2904.3	2980.3	3042.9	3085.4	3112.3	3121.2	3116.7
27.5°	2667.3	2667.3	2687.5	2776.9	2890.9	3002.7	3083.2	3132.4	3161.4	3170.4	3165.9
30°	2575.7	2571.2	2598.0	2709.8	2866.3	3027.3	3130.1	3181.6	3219.6	3226.3	3219.6
32.5°	2430.3	2437.0	2477.3	2618.1	2826.1	3042.9	3186.0	3246.4	3288.9	3302.3	3297.8
35°	2253.7	2264.9	2320.8	2501.9	2750.1	3040.7	3244.2	3318.0	3373.8	3391.7	3389.5
37.5°	2043.5	2059.2	2128.5	2340.9	2636.0	3007.2	3297.8	3398.4	3472.2	3494.6	3499.1
40°	1813.2	1828.9	1918.3	2153.1	2481.8	2928.9	3329.1	3490.1	3588.5	3633.2	3639.9
42.5°	1569.5	1596.4	1703.7	1931.7	2296.2	2803.7	3329.1	3579.5	3700.3	3783.0	3789.7
45°	1334.8	1357.1	1486.8	1710.4	2097.2	2642.7	3291.1	3669.0	3852.3	3995.4	3990.9
47.5°	1131.3	1138.0	1256.5	1482.3	1875.9	2459.4	3212.9	3749.5	4013.3	4203.3	4243.6
50°	921.2	936.8	1037.4	1261.0	1650.0	2258.2	3081.0	3800.9	4178.7	4467.2	4518.6
52.5°	773.6	775.8	851.8	1057.5	1415.3	2014.5	2922.2	3814.3	4337.5	4753.3	4816.0
55°	630.5	641.7	706.5	860.8	1189.5	1775.2	2716.5	3794.2	4482.8	5030.6	5146.9
57.5°	541.1	543.3	590.3	713.2	1003.9	1520.4	2488.5	3727.1	4603.5	5336.9	5484.5
60°	465.1	465.1	500.8	594.7	811.6	1272.2	2220.2	3608.6	4670.6	5665.6	5880.2
62.5°	404.7	406.9	438.2	507.5	675.2	1050.8	1925.0	3423.0	4695.2	5983.0	6229.0
65°	366.7	368.9	386.8	433.7	556.7	854.1	1623.2	3197.2	4661.7	6220.0	6539.8
67.5°	*304.1*	*306.3*	*337.6*	*373.4*	*462.8*	*686.4*	*1319.1*	*2884.2*	*4525.3*	*6293.8*	*6685.1*
70°	232.5	239.2	281.7	319.7	384.6	547.8	1012.8	2470.6	4198.9	6043.4	6445.9
72.5°	194.5	196.8	228.1	270.5	322.0	429.3	769.1	1945.2	3702.5	5397.3	5844.4
75°	169.9	172.2	190.0	228.1	268.3	344.3	534.4	1343.7	2953.5	4364.3	4773.5
77.5°	154.3	156.5	161.0	192.3	225.8	266.1	377.9	798.2	2083.8	3335.8	3550.5
80°	147.6	147.6	136.4	158.7	185.6	207.9	252.6	458.3	1337.0	2249.2	2421.4
82.5°	105.1	102.8	93.9	98.4	114.0	114.0	129.7	190.0	512.0	950.2	1030.7
85°	6.7	6.7	11.2	13.4	20.1	26.8	33.5	44.7	129.7	176.6	183.3
87.5°	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5	6.7	8.9	8.9
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: P869805
CATALOG NUMBER: MEM2-HTN-SA-90-830-U-T1

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	2835.0	2837.3	2837.3	2841.7	2846.2	2844.0	2841.7	2846.2	2839.5	2826.1	2823.8
5°	2844.0	2844.0	2841.7	2846.2	2850.7	2846.2	2841.7	2841.7	2837.3	2823.8	2821.6
7.5°	2861.8	2859.6	2859.6	2859.6	2859.6	2852.9	2846.2	2841.7	2835.0	2821.6	2814.9
10°	2886.4	2884.2	2882.0	2879.7	2868.6	2861.8	2850.7	2844.0	2835.0	2819.4	2814.9
12.5°	2913.3	2908.8	2904.3	2906.6	2884.2	2864.1	2852.9	2837.3	2830.5	2794.8	2788.1
15°	2940.1	2933.4	2931.2	2922.2	2899.9	2870.8	2848.4	2826.1	2803.7	2770.2	2759.0
17.5°	2975.9	2971.4	2958.0	2949.0	2917.7	2877.5	2844.0	2812.7	2783.6	2743.3	2736.6
20°	3018.4	3013.9	3000.5	2982.6	2942.3	2893.1	2846.2	2797.0	2761.2	2714.3	2703.1
22.5°	3065.3	3058.6	3047.4	3027.3	2975.9	2917.7	2852.9	2788.1	2734.4	2680.7	2674.0
25°	3114.5	3110.0	3098.8	3069.8	3013.9	2942.3	2852.9	2756.8	2689.7	2642.7	2622.6
27.5°	3161.4	3159.2	3145.8	3112.3	3054.1	2960.2	2832.8	2705.3	2615.9	2553.3	2539.9
30°	3221.8	3217.3	3201.7	3163.7	3098.8	2971.4	2792.5	2618.1	2506.4	2437.0	2416.9
32.5°	3295.6	3291.1	3268.8	3221.8	3152.5	2973.6	2734.4	2506.4	2358.8	2285.0	2260.4
35°	3394.0	3385.0	3356.0	3300.1	3203.9	2951.3	2631.6	2363.3	2182.2	2086.0	2052.5
37.5°	3501.3	3490.1	3452.1	3382.8	3239.7	2890.9	2486.2	2171.0	1965.3	1851.3	1826.7
40°	3633.2	3617.6	3559.4	3463.3	3253.1	2785.8	2323.0	1974.2	1755.1	1629.9	1600.8
42.5°	3798.7	3771.8	3677.9	3552.7	3226.3	2642.7	2128.5	1770.8	1520.4	1404.1	1397.4
45°	3997.6	3955.2	3814.3	3639.9	3168.2	2463.9	1922.8	1542.7	1303.5	1189.5	1160.4
47.5°	4232.4	4181.0	3973.0	3707.0	3054.1	2280.5	1701.5	1321.4	1102.3	986.0	963.6
50°	4491.8	4442.6	4140.7	3745.0	2931.2	2065.9	1484.6	1124.6	905.5	809.4	809.4
52.5°	4807.0	4695.2	4301.7	3749.5	2743.3	1828.9	1276.7	932.3	760.2	675.2	657.3
55°	5142.4	5010.5	4447.0	3709.2	2548.8	1612.0	1053.1	775.8	623.8	563.4	547.8
57.5°	5515.8	5314.5	4552.1	3628.7	2302.9	1375.0	878.7	639.4	525.4	476.2	469.5
60°	5891.4	5632.0	4614.7	3492.3	2041.3	1155.9	731.1	534.4	451.6	415.9	409.2
62.5°	6240.2	5891.4	4619.2	3293.4	1786.4	963.6	599.2	460.6	400.2	373.4	373.4
65°	6542.0	6108.3	4543.2	3038.5	1462.2	773.6	494.1	389.0	348.8	319.7	313.0
67.5°	6689.6	6191.0	4409.0	2689.7	1171.6	612.6	415.9	337.6	299.6	254.9	250.4
70°	6481.6	5951.7	4064.7	2242.5	905.5	487.4	346.6	288.4	250.4	212.4	207.9
72.5°	5817.6	5314.5	3508.0	1737.2	681.9	393.5	288.4	245.9	205.7	185.6	181.1
75°	4760.1	4420.2	2772.4	1196.2	476.2	308.5	241.5	207.9	174.4	165.5	163.2
77.5°	3613.1	3286.7	2025.7	749.0	326.4	241.5	205.7	176.6	152.0	158.7	154.3
80°	2412.4	2262.6	1346.0	424.8	219.1	176.6	156.5	129.7	116.3	134.1	129.7
82.5°	1095.6	1037.4	632.7	185.6	98.4	76.0	53.7	40.2	31.3	29.1	33.5
85°	183.3	161.0	44.7	20.1	11.2	6.7	4.5	4.5	2.2	2.2	2.2
87.5°	8.9	6.7	6.7	4.5	2.2	2.2	2.2	2.2	2.2	0.0	0.0
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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-7

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-30-830-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-30-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

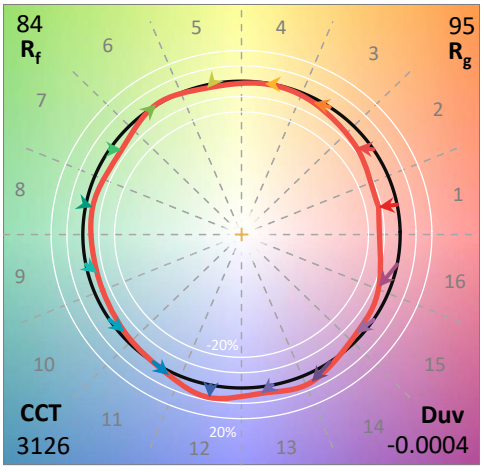
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-7
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-30-830-U-5WQ**
Description:	Epic Modern Light Square 30W 5WQ Optic

Spectral Parameters

CCT (K):	3126
CIE u':	0.2465
CIE v':	0.5182
Duv:	-0.0004
CIE x:	0.4277
CIE y:	0.3997
CIE z:	0.1727
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	582
Purity:	48.31913
Rf:	84.4
Rg:	94.7

CRI (Ra):	82.6
R1:	81.4
R2:	92.2
R3:	94.9
R4:	80.1
R5:	81.8
R6:	90.5
R7:	81.8
R8:	58.0
R9:	5.1
R10:	82.2
R11:	79.8
R12:	70.4
R13:	84.2
R14:	97.9
R15:	73.6



Test Conditions

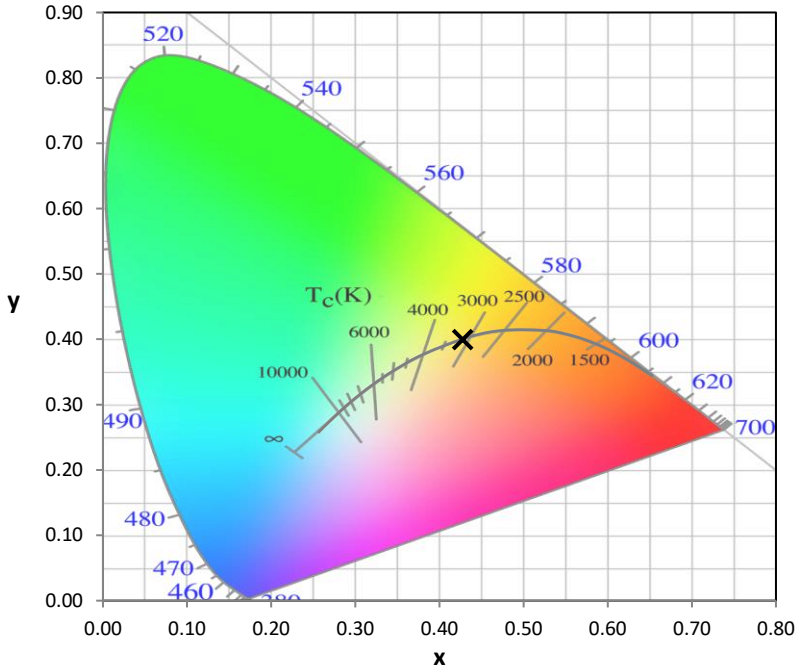
Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-7

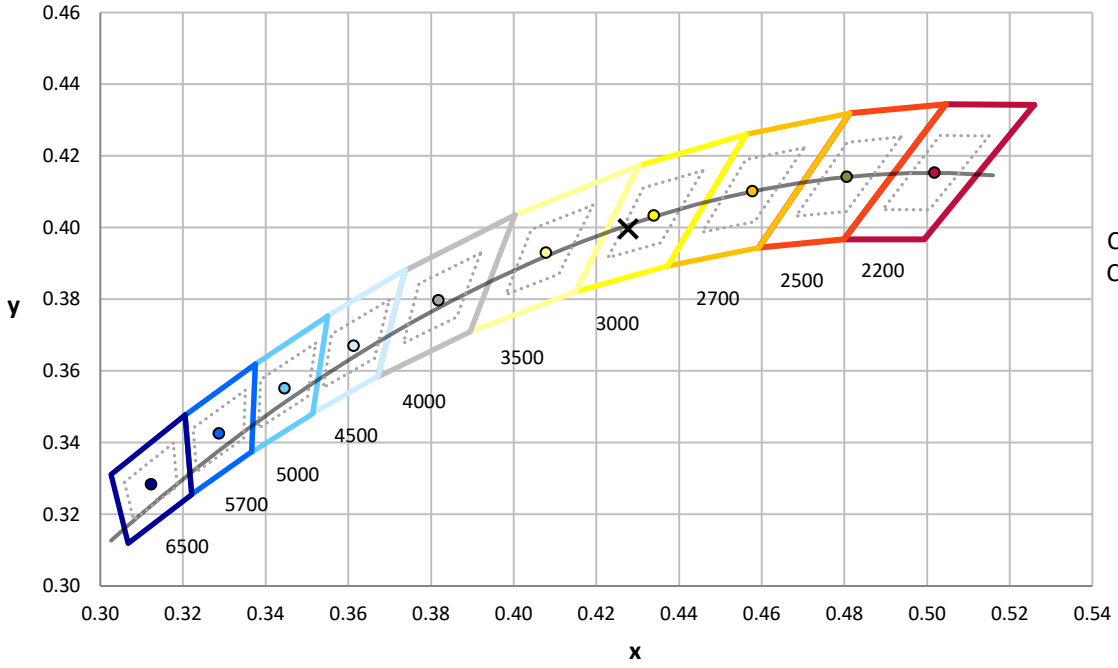
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-7

CIE 1931 Chromaticity Diagram



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

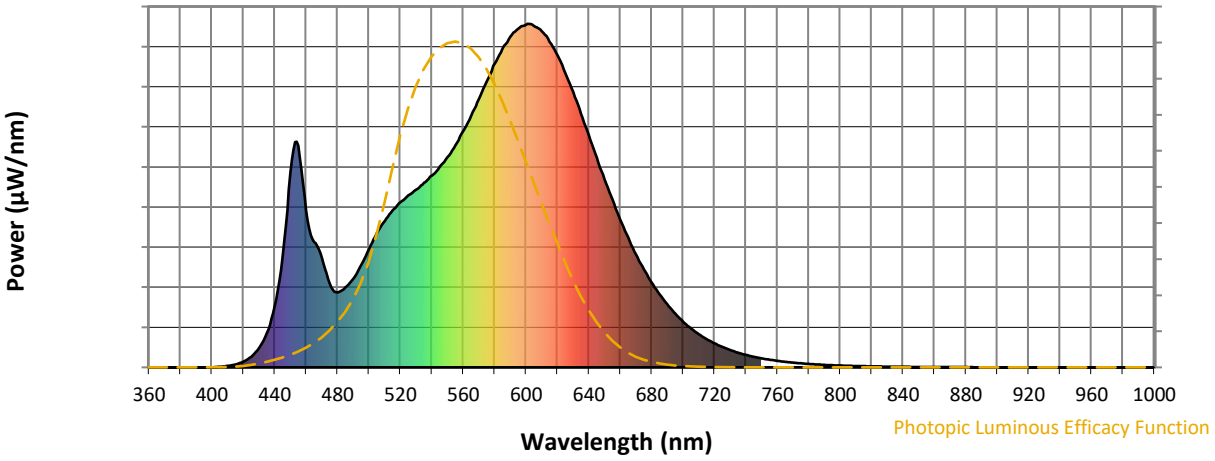


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-7

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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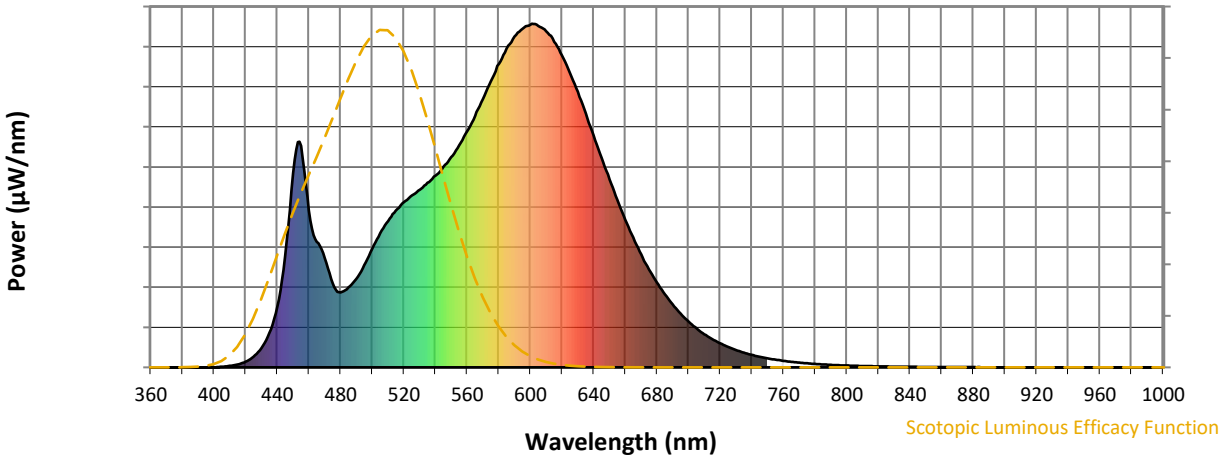
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.42**

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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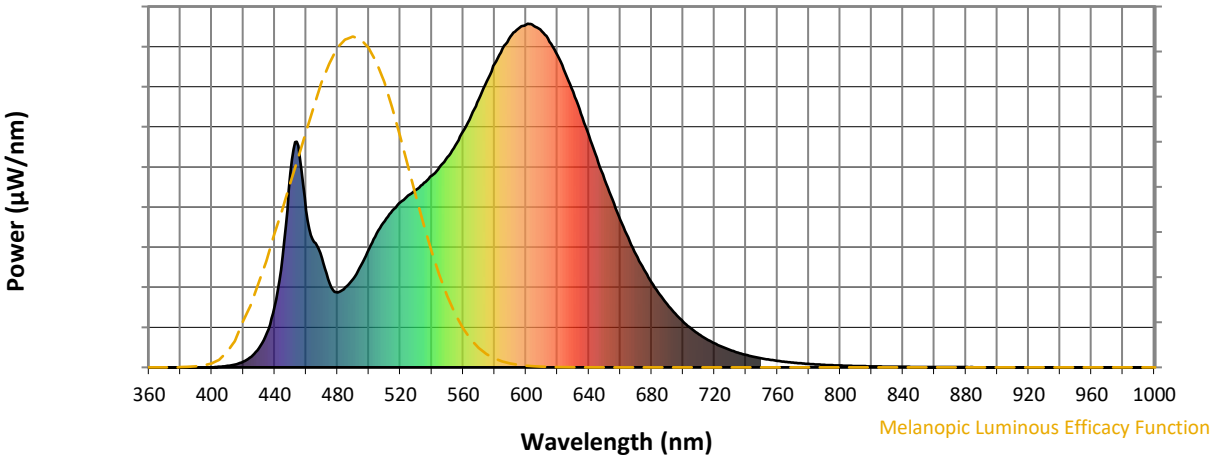
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.79**

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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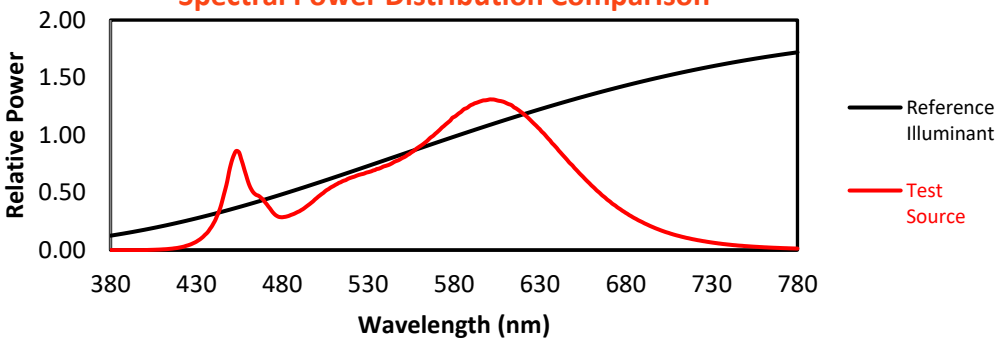
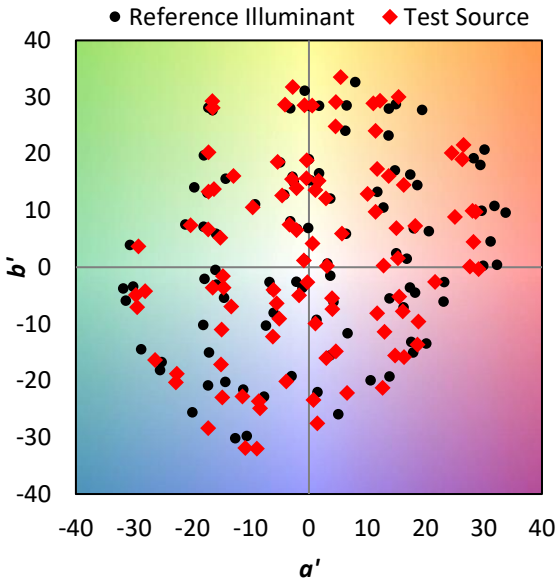
Summary

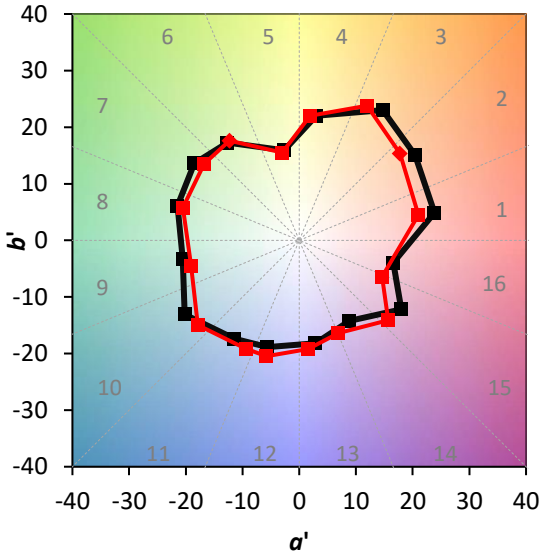
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

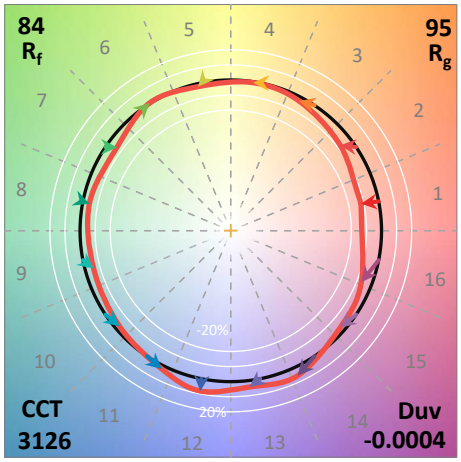
Spectral Power Distribution Comparison

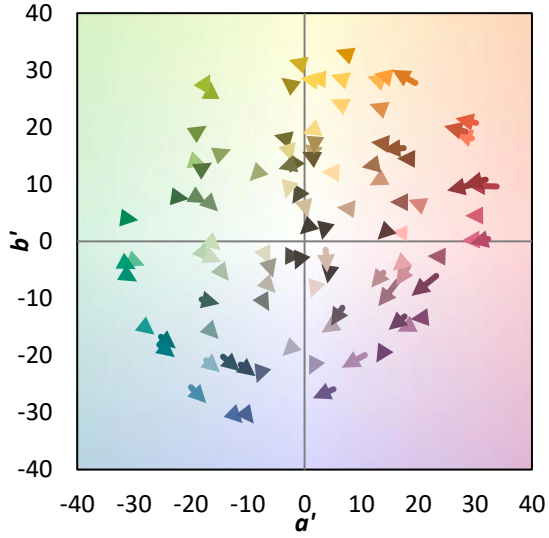


Color Vector Graphics









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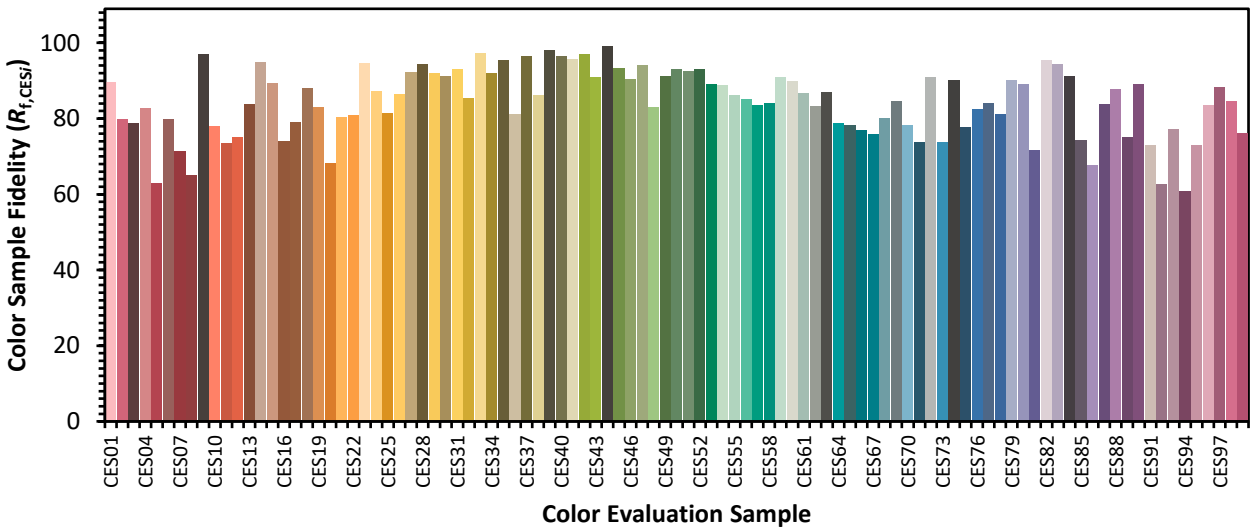
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 86	CES51 = 93	CES76 = 82
CES02 = 63	CES27 = 92	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 81
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 90
CES05 = 49	CES30 = 91	CES55 = 86	CES80 = 89
CES06 = 51	CES31 = 93	CES56 = 85	CES81 = 72
CES07 = 42	CES32 = 85	CES57 = 83	CES82 = 95
CES08 = 41	CES33 = 97	CES58 = 84	CES83 = 94
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 76	CES35 = 96	CES60 = 90	CES85 = 74
CES11 = 59	CES36 = 81	CES61 = 87	CES86 = 68
CES12 = 65	CES37 = 96	CES62 = 83	CES87 = 84
CES13 = 43	CES38 = 86	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 75
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 89
CES16 = 47	CES41 = 96	CES66 = 77	CES91 = 73
CES17 = 50	CES42 = 97	CES67 = 76	CES92 = 63
CES18 = 56	CES43 = 91	CES68 = 80	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 61
CES20 = 66	CES45 = 93	CES70 = 78	CES95 = 73
CES21 = 87	CES46 = 90	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 94	CES72 = 91	CES97 = 88
CES23 = 92	CES48 = 83	CES73 = 74	CES98 = 85
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 76
CES25 = 72	CES50 = 93	CES75 = 78	



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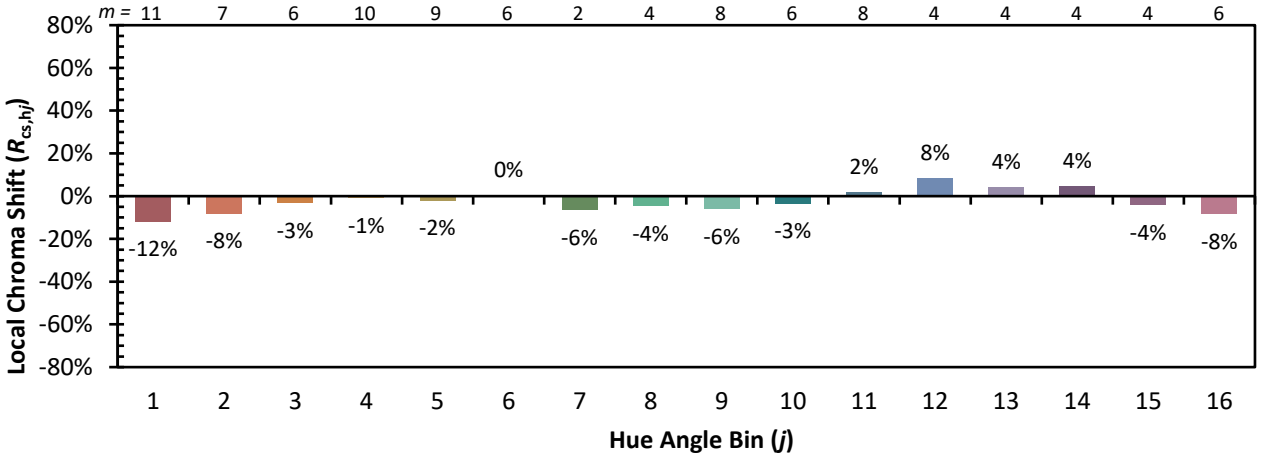
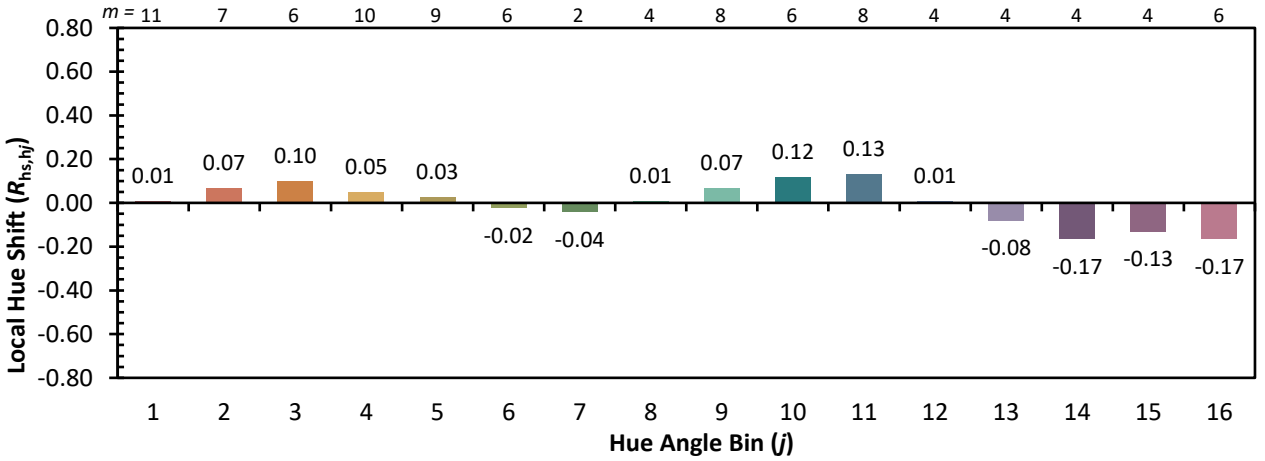
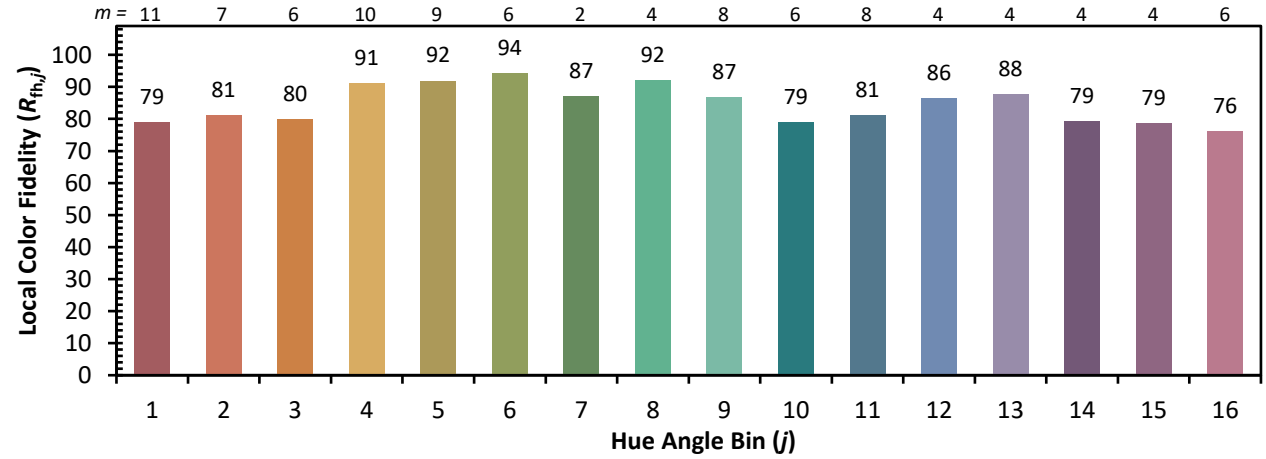
Color Rendition by Hue-Angle Bin







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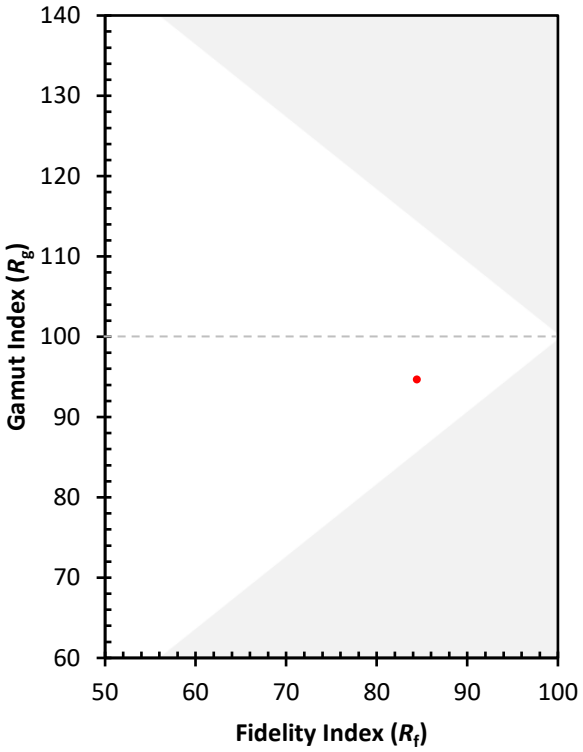
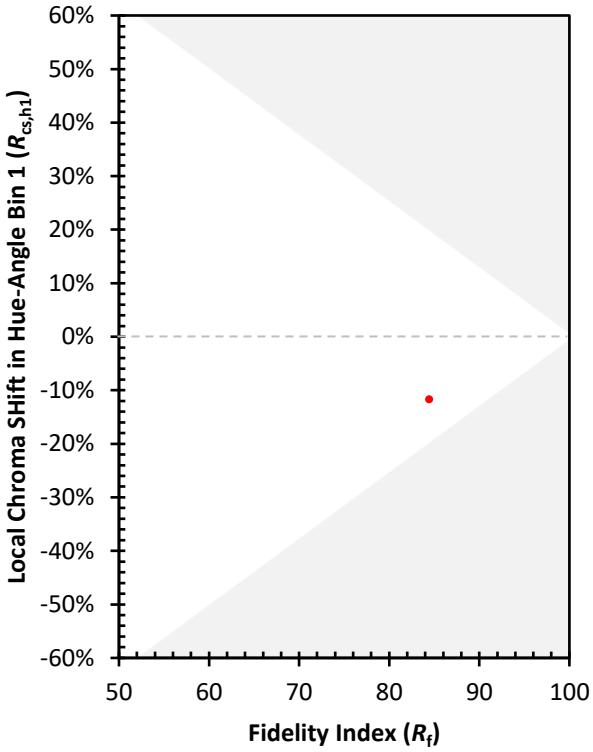
Measure Comparisons





(END OF REPORT)