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: P868778

Luminaire Tested: **EMM2-HSN-SA2C-730-U-T1**

Issue Date: 08/22/2024

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:	P868778
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA2C-730-U-T1
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 120W 70CRI 3000K FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC
Light Source:	(20) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13470.1 lumens
Efficiency:	N/A
Efficacy:	133.4 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):	101
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.45%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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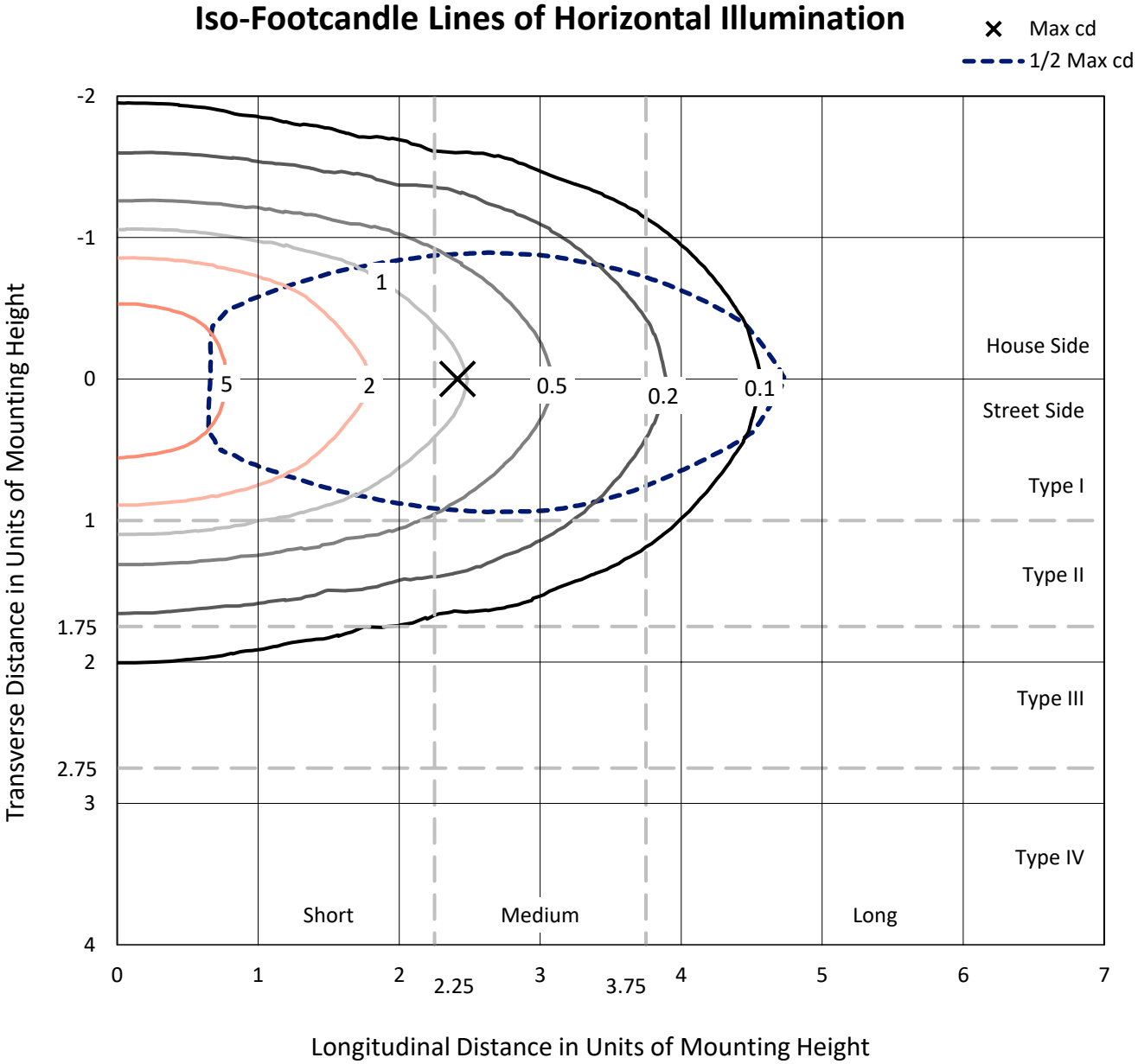
REPORT NUMBER: P868778
CATALOG NUMBER: EMM2-HSN-SA2C-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
Type I - Short - N/A

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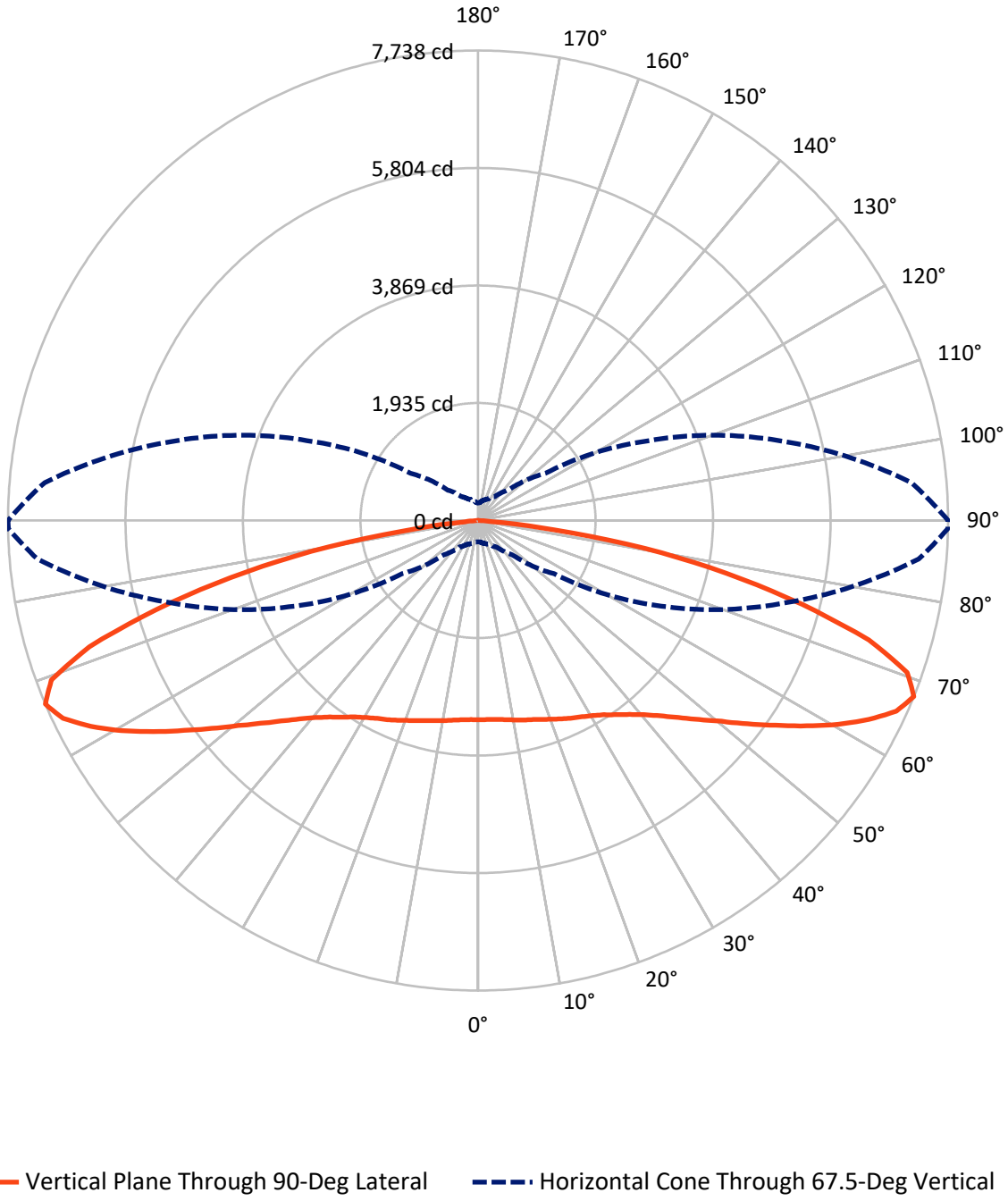
Luminous Intensity Polar Plot



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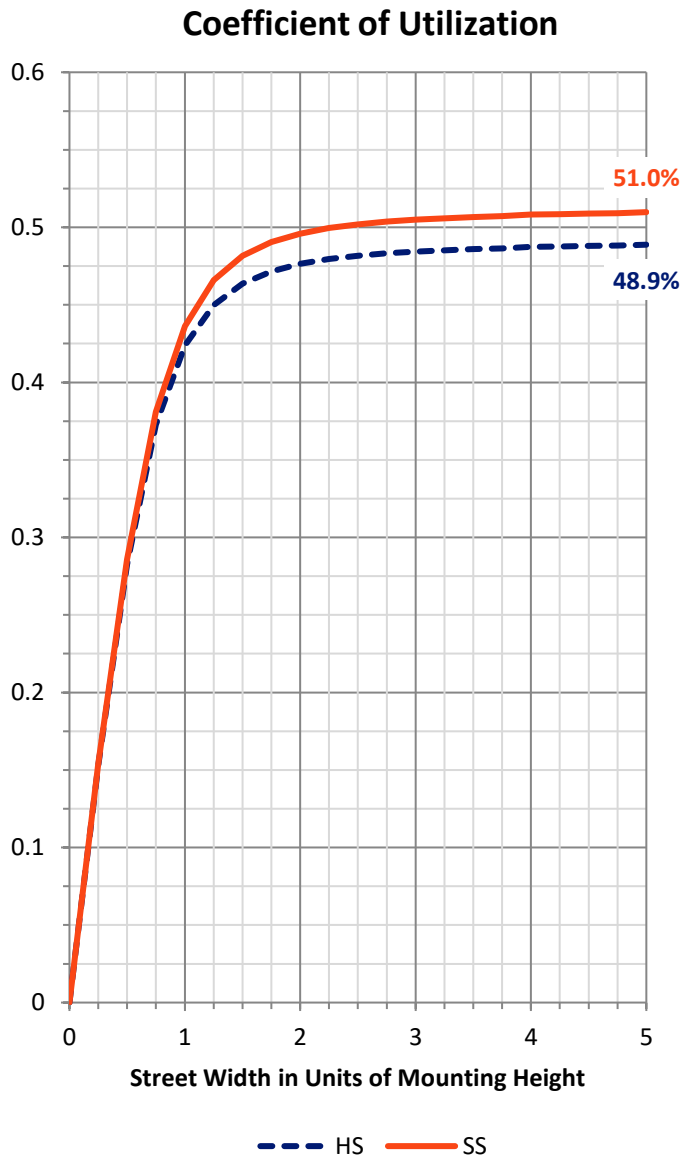
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6615.4	0.0	6615.4
	% Fixture	49.1	0.0	49.1
Street Side	Lumens	6854.7	0.0	6854.7
	% Fixture	50.9	0.0	50.9
Total	Lumens	13470.1	0.0	13470.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	2.3
10°-20°	945.2	7.0
20°-30°	1564.3	11.6
30°-40°	2074.2	15.4
40°-50°	2338.7	17.4
50°-60°	2397.5	17.8
60°-70°	2264.4	16.8
70°-80°	1389.4	10.3
80°-90°	181.8	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°	13470.1	100.0
0°-180°	13470.1	100.0



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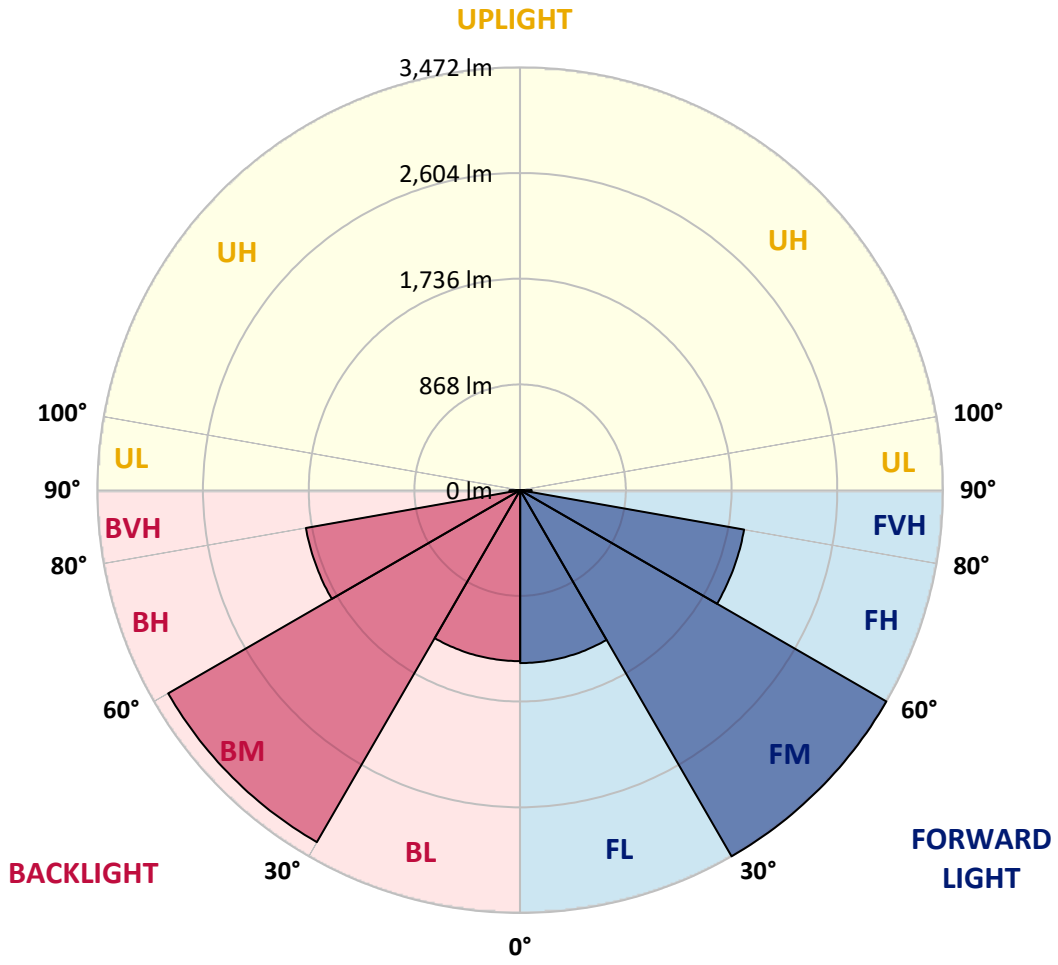
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1420.1	10.5			
FM	(30°-60°)	3472.4	25.8			
FH	(60°-80°)	1867.4	13.9			G2/5000
FVH	(80°-90°)	94.7	0.7			G1/100
BL	(0°-30°)	1403.9	10.4	B3/2500		
BM	(30°-60°)	3338.0	24.8	B3/5000		
BH	(60°-80°)	1786.4	13.3	B3/2500		G3/2500
BVH	(80°-90°)	87.1	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°	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0
2.5°	3294.9	3294.9	3287.1	3274.2	3271.6	3274.2	3289.7	3282.0	3282.0	3284.6	3282.0
5°	3294.9	3294.9	3289.7	3276.8	3276.8	3276.8	3294.9	3287.1	3289.7	3292.3	3292.3
7.5°	3300.1	3300.1	3294.9	3284.6	3284.6	3284.6	3310.4	3305.2	3305.2	3313.0	3307.8
10°	3313.0	3307.8	3302.7	3305.2	3297.5	3310.4	3323.3	3325.9	3336.3	3341.4	3338.9
12.5°	3313.0	3307.8	3294.9	3310.4	3310.4	3328.5	3346.6	3357.0	3369.9	3369.9	3369.9
15°	3297.5	3292.3	3282.0	3307.8	3318.2	3341.4	3367.3	3382.8	3406.1	3406.1	3403.5
17.5°	3279.4	3271.6	3266.4	3305.2	3328.5	3359.6	3398.3	3419.0	3444.9	3447.5	3442.3
20°	3245.8	3243.2	3245.8	3297.5	3338.9	3382.8	3429.4	3457.8	3491.5	3501.8	3494.0
22.5°	3209.5	3209.5	3219.9	3289.7	3354.4	3413.9	3475.9	3512.1	3545.8	3556.1	3545.8
25°	3160.4	3160.4	3181.1	3263.9	3359.6	3447.5	3519.9	3569.0	3600.1	3610.4	3605.2
27.5°	3085.4	3085.4	3108.7	3212.1	3344.0	3473.3	3566.5	3623.4	3657.0	3667.3	3662.1
30°	2979.4	2974.2	3005.2	3134.5	3315.6	3501.8	3620.8	3680.2	3724.2	3732.0	3724.2
32.5°	2811.3	2819.0	2865.6	3028.5	3269.0	3519.9	3685.4	3755.2	3804.4	3819.9	3814.7
35°	2607.0	2619.9	2684.5	2894.0	3181.1	3517.3	3752.7	3838.0	3902.7	3923.4	3920.8
37.5°	2363.8	2381.9	2462.1	2707.8	3049.2	3478.5	3814.7	3931.1	4016.5	4042.3	4047.5
40°	2097.5	2115.6	2219.0	2490.6	2870.7	3388.0	3850.9	4037.2	4150.9	4202.7	4210.4
42.5°	1815.6	1846.6	1970.7	2234.5	2656.1	3243.2	3850.9	4140.6	4280.3	4376.0	4383.7
45°	1544.0	1569.9	1719.9	1978.5	2425.9	3057.0	3807.0	4244.1	4456.1	4621.6	4616.5
47.5°	1308.6	1316.4	1453.5	1714.7	2169.9	2844.9	3716.5	4337.2	4642.3	4862.2	4908.7
50°	1065.5	1083.6	1200.0	1458.7	1908.7	2612.1	3563.9	4396.6	4833.7	5167.3	5226.8
52.5°	894.8	897.4	985.4	1223.3	1637.1	2330.2	3380.2	4412.2	5017.3	5498.4	5570.8
55°	729.3	742.3	817.3	995.7	1375.9	2053.5	3142.3	4388.9	5185.5	5819.1	5953.6
57.5°	625.9	628.5	682.8	825.0	1161.2	1758.7	2878.5	4311.3	5325.1	6173.4	6344.1
60°	537.9	537.9	579.3	687.9	938.8	1471.6	2568.2	4174.2	5402.7	6553.6	6801.9
62.5°	468.1	470.7	506.9	587.1	781.1	1215.5	2226.8	3959.6	5431.1	6920.8	7205.3
65°	424.1	426.7	447.4	501.7	644.0	988.0	1877.6	3698.4	5392.4	7195.0	7564.8
67.5°	*351.7*	*354.3*	*390.5*	*431.9*	*535.4*	*794.0*	*1525.9*	*3336.3*	*5234.6*	*7280.3*	*7732.9*
70°	269.0	276.7	325.9	369.8	444.8	633.6	1171.6	2857.8	4857.0	6990.7	7456.2
72.5°	225.0	227.6	263.8	312.9	372.4	496.6	889.7	2250.0	4282.8	6243.2	6760.5
75°	196.6	199.1	219.8	263.8	310.4	398.3	618.1	1554.3	3416.4	5048.4	5521.7
77.5°	178.5	181.0	186.2	222.4	261.2	307.8	437.1	923.3	2410.4	3858.7	4107.0
80°	170.7	170.7	157.8	183.6	214.7	240.5	292.2	530.2	1546.6	2601.8	2800.9
82.5°	121.6	119.0	108.6	113.8	131.9	131.9	150.0	219.8	592.3	1099.2	1192.3
85°	7.8	7.8	12.9	15.5	23.3	31.0	38.8	51.7	150.0	204.3	212.1
87.5°	2.6	2.6	2.6	2.6	2.6	5.2	5.2	5.2	7.8	10.3	10.3
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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Scaled Data Report

REPORT NUMBER: P868778
CATALOG NUMBER: EMM2-HSN-SA2C-730-U-T1

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0	3282.0
2.5°	3279.4	3282.0	3282.0	3287.1	3292.3	3289.7	3287.1	3292.3	3284.6	3269.0	3266.4
5°	3289.7	3289.7	3287.1	3292.3	3297.5	3292.3	3287.1	3287.1	3282.0	3266.4	3263.9
7.5°	3310.4	3307.8	3307.8	3307.8	3307.8	3300.1	3292.3	3287.1	3279.4	3263.9	3256.1
10°	3338.9	3336.3	3333.7	3331.1	3318.2	3310.4	3297.5	3289.7	3279.4	3261.3	3256.1
12.5°	3369.9	3364.7	3359.6	3362.1	3336.3	3313.0	3300.1	3282.0	3274.2	3232.8	3225.1
15°	3400.9	3393.2	3390.6	3380.2	3354.4	3320.8	3294.9	3269.0	3243.2	3204.4	3191.4
17.5°	3442.3	3437.1	3421.6	3411.3	3375.1	3328.5	3289.7	3253.5	3219.9	3173.3	3165.6
20°	3491.5	3486.3	3470.8	3450.1	3403.5	3346.6	3292.3	3235.4	3194.0	3139.7	3126.8
22.5°	3545.8	3538.0	3525.1	3501.8	3442.3	3375.1	3300.1	3225.1	3163.0	3100.9	3093.2
25°	3602.7	3597.5	3584.6	3550.9	3486.3	3403.5	3300.1	3188.9	3111.3	3057.0	3033.7
27.5°	3657.0	3654.4	3638.9	3600.1	3532.8	3424.2	3276.8	3129.4	3025.9	2953.5	2938.0
30°	3726.8	3721.6	3703.5	3659.6	3584.6	3437.1	3230.2	3028.5	2899.2	2819.0	2795.7
32.5°	3812.1	3807.0	3781.1	3726.8	3646.6	3439.7	3163.0	2899.2	2728.5	2643.2	2614.7
35°	3925.9	3915.6	3882.0	3817.3	3706.1	3413.9	3044.0	2733.7	2524.2	2413.0	2374.2
37.5°	4050.1	4037.2	3993.2	3913.0	3747.5	3344.0	2875.9	2511.3	2273.3	2141.4	2113.0
40°	4202.7	4184.6	4117.3	4006.1	3763.0	3222.5	2687.1	2283.7	2030.2	1885.4	1851.8
42.5°	4394.1	4363.0	4254.4	4109.6	3732.0	3057.0	2462.1	2048.3	1758.7	1624.2	1616.4
45°	4624.2	4575.1	4412.2	4210.4	3664.7	2850.1	2224.2	1784.5	1507.8	1375.9	1342.3
47.5°	4895.8	4836.3	4595.8	4288.0	3532.8	2638.0	1968.1	1528.5	1275.0	1140.5	1114.7
50°	5195.8	5138.9	4789.8	4332.0	3390.6	2389.7	1717.3	1300.9	1047.4	936.2	936.2
52.5°	5560.5	5431.1	4976.0	4337.2	3173.3	2115.6	1476.8	1078.5	879.3	781.1	760.4
55°	5948.4	5795.8	5144.1	4290.6	2948.3	1864.7	1218.1	897.4	721.6	651.7	633.6
57.5°	6380.3	6147.5	5265.6	4197.5	2663.8	1590.5	1016.4	739.7	607.8	550.9	543.1
60°	6814.8	6514.8	5338.0	4039.7	2361.3	1337.1	845.7	618.1	522.4	481.0	473.3
62.5°	7218.3	6814.8	5343.2	3809.6	2066.4	1114.7	693.1	532.8	462.9	431.9	431.9
65°	7567.4	7065.7	5255.3	3514.7	1691.4	894.8	571.6	450.0	403.5	369.8	362.1
67.5°	7738.1	7161.4	5100.1	3111.3	1355.2	708.6	481.0	390.5	346.6	294.8	289.7
70°	7497.6	6884.6	4701.8	2594.0	1047.4	563.8	400.9	333.6	289.7	245.7	240.5
72.5°	6729.4	6147.5	4057.8	2009.5	788.8	455.2	333.6	284.5	237.9	214.7	209.5
75°	5506.1	5113.0	3207.0	1383.6	550.9	356.9	279.3	240.5	201.7	191.4	188.8
77.5°	4179.4	3801.8	2343.2	866.4	377.6	279.3	237.9	204.3	175.9	183.6	178.5
80°	2790.6	2617.3	1556.9	491.4	253.5	204.3	181.0	150.0	134.5	155.2	150.0
82.5°	1267.3	1200.0	731.9	214.7	113.8	87.9	62.1	46.6	36.2	33.6	38.8
85°	212.1	186.2	51.7	23.3	12.9	7.8	5.2	5.2	2.6	2.6	2.6
87.5°	10.3	7.8	7.8	5.2	2.6	2.6	2.6	2.6	2.6	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: SP1-2407-157-4

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-730-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-730-U-5WQ-2

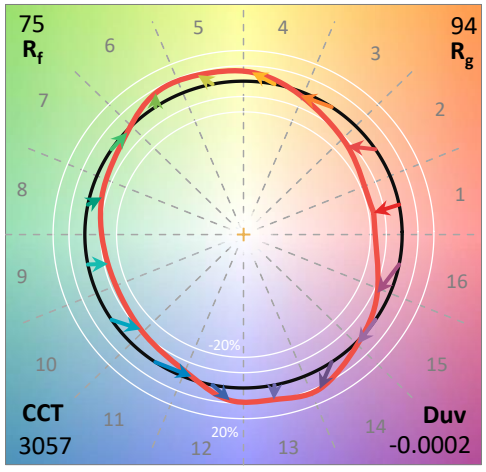
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-4
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-40-730-U-5WQ-2**
Description:	Epic Modern Light Square 40W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	3057	CRI (Ra):	71.7		
CIE u':	0.2487	R1:	68.1	R9:	-34.8
CIE v':	0.5199	R2:	82.0	R10:	58.5
Duv:	-0.0002	R3:	93.5	R11:	62.5
CIE x:	0.4326	R4:	67.5	R12:	47.5
CIE y:	0.4020	R5:	67.2	R13:	70.7
CIE z:	0.1654	R6:	74.9	R14:	96.4
Peak Wavelength (nm):	593	R7:	77.4	R15:	60.0
Dominant Wavelength (nm):	582	R8:	43.1		
Purity:	50.50735				
Rf:	74.6				
Rg:	94				



Test Conditions

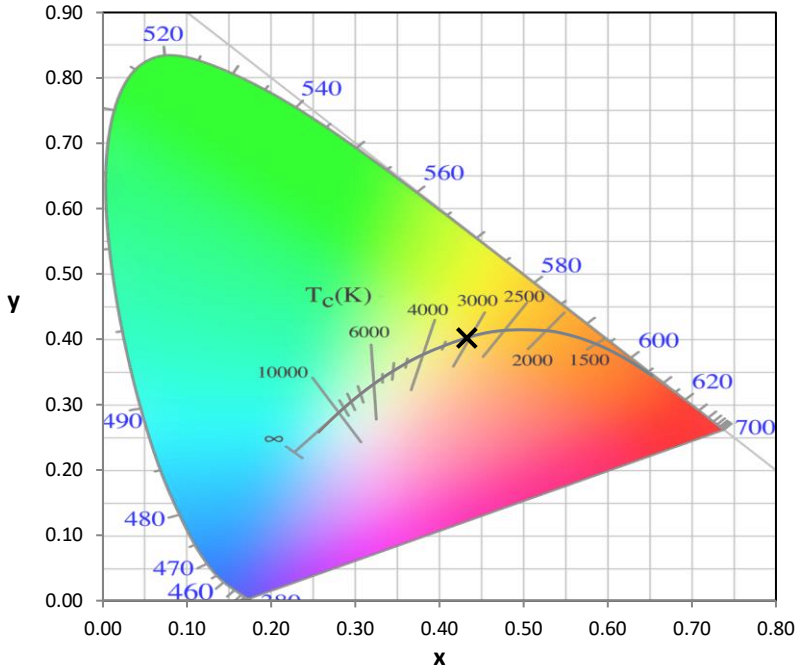
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-4

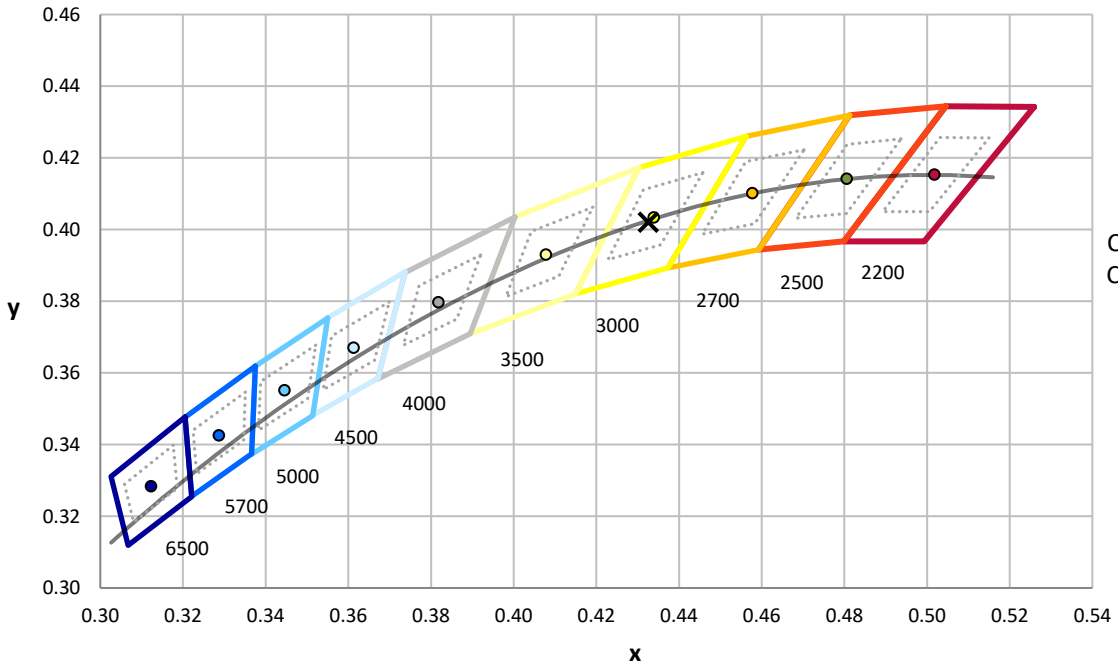
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-4

CIE 1931 Chromaticity Diagram



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

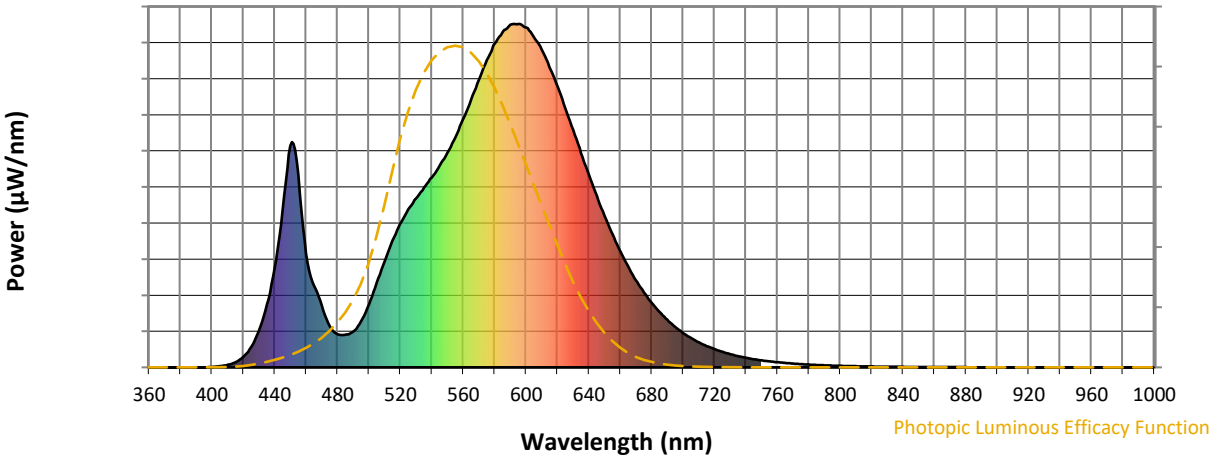


CCT = 3057K
CIE x = 0.4326
CIE y = 0.4020
Duv = -0.0002

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-4

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

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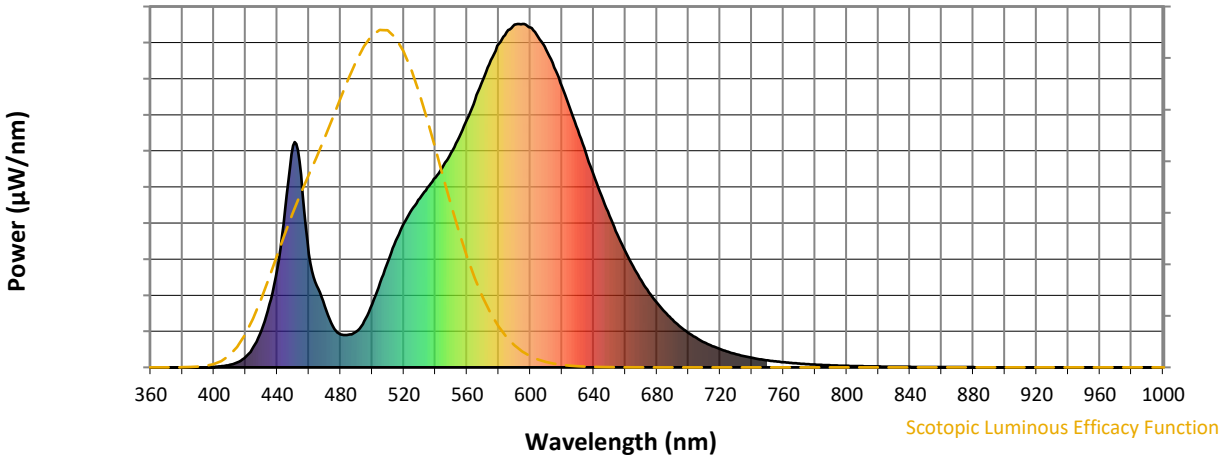
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.23**

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

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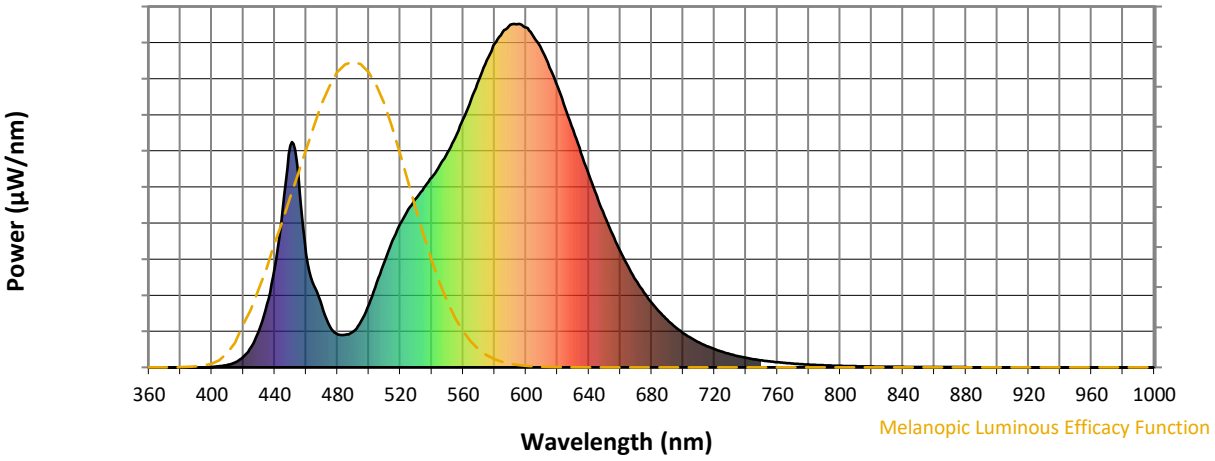
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.27**

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	104	NR	620	818	NR	750	20	NR	880	1	NR
365	0	NR	495	135	NR	625	755	NR	755	17	NR	885	0	NR
370	0	NR	500	184	NR	630	691	NR	760	15	NR	890	0	NR
375	0	NR	505	247	NR	635	625	NR	765	13	NR	895	0	NR
380	0	NR	510	309	NR	640	561	NR	770	11	NR	900	0	NR
385	0	NR	515	369	NR	645	499	NR	775	9	NR	905	0	NR
390	0	NR	520	419	NR	650	441	NR	780	8	NR	910	0	NR
395	0	NR	525	460	NR	655	388	NR	785	7	NR	915	0	NR
400	1	NR	530	492	NR	660	338	NR	790	6	NR	920	0	NR
405	3	NR	535	524	NR	665	294	NR	795	5	NR	925	0	NR
410	7	NR	540	553	NR	670	253	NR	800	4	NR	930	0	NR
415	15	NR	545	588	NR	675	218	NR	805	4	NR	935	0	NR
420	31	NR	550	625	NR	680	188	NR	810	3	NR	940	0	NR
425	60	NR	555	670	NR	685	161	NR	815	3	NR	945	0	NR
430	107	NR	560	723	NR	690	139	NR	820	3	NR	950	0	NR
435	183	NR	565	780	NR	695	118	NR	825	2	NR	955	0	NR
440	289	NR	570	837	NR	700	100	NR	830	2	NR	960	0	NR
445	460	NR	575	894	NR	705	85	NR	835	2	NR	965	0	NR
450	646	NR	580	942	NR	710	73	NR	840	1	NR	970	0	NR
455	561	NR	585	976	NR	715	62	NR	845	1	NR	975	0	NR
460	331	NR	590	998	NR	720	53	NR	850	1	NR	980	0	NR
465	238	NR	595	1000	NR	725	45	NR	855	1	NR	985	0	NR
470	178	NR	600	990	NR	730	39	NR	860	1	NR	990	0	NR
475	120	NR	605	962	NR	735	33	NR	865	1	NR	995	0	NR
480	96	NR	610	925	NR	740	28	NR	870	1	NR	1000	0	NR
485	95	NR	615	873	NR	745	24	NR	875	1	NR			

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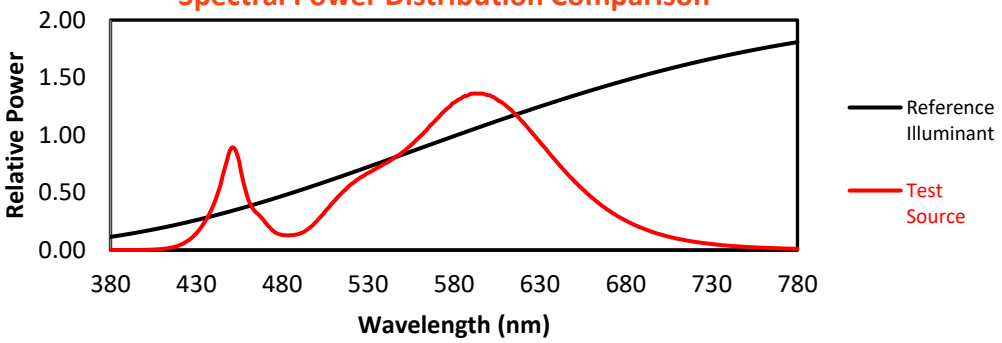
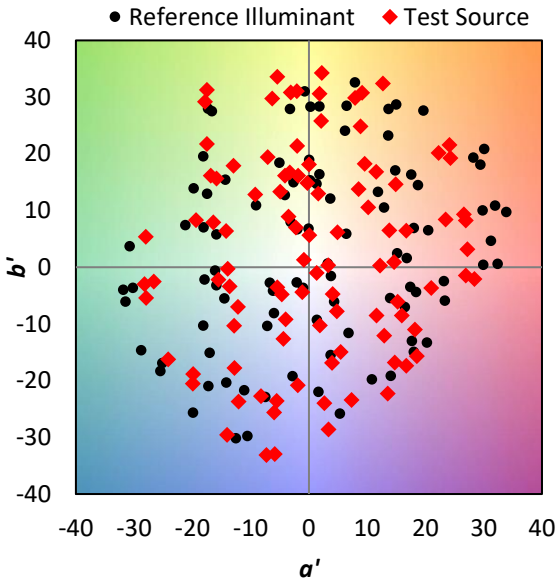
Summary

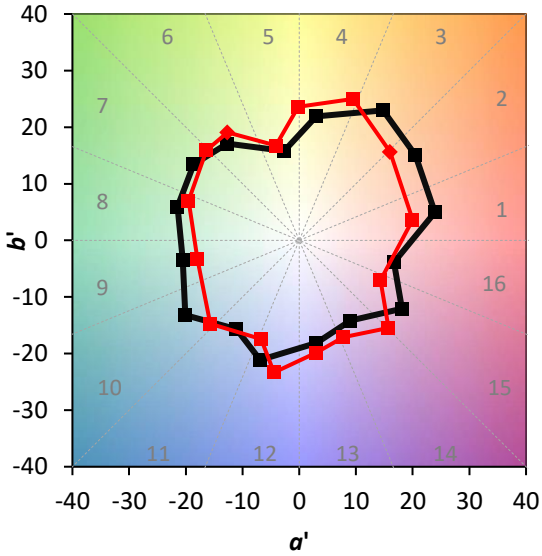
R_f = 74.6
R_g = 94
CIE R_a = 71.7
R_9 = -34.8

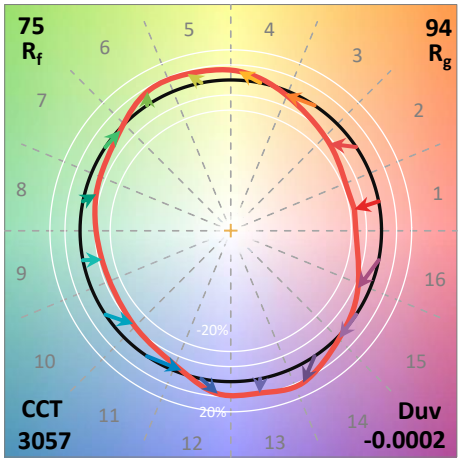
Spectral Power Distribution Comparison

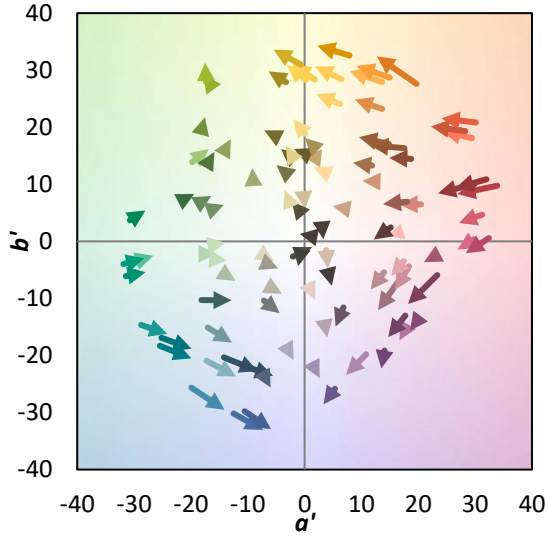


Color Vector Graphics









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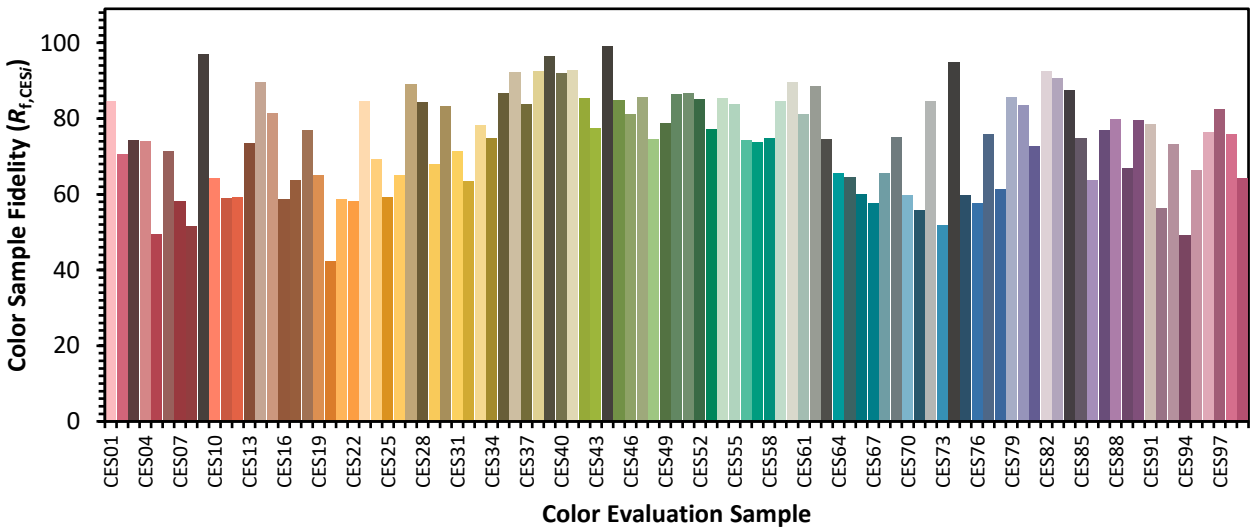
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 65	CES51 = 87	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 61
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 86
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 83
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 78	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 75	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 64
CES12 = 65	CES37 = 84	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 65	CES89 = 67
CES15 = 71	CES40 = 92	CES65 = 64	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 78
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 56
CES18 = 56	CES43 = 77	CES68 = 66	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 49
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 66
CES21 = 87	CES46 = 81	CES71 = 56	CES96 = 76
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 60	



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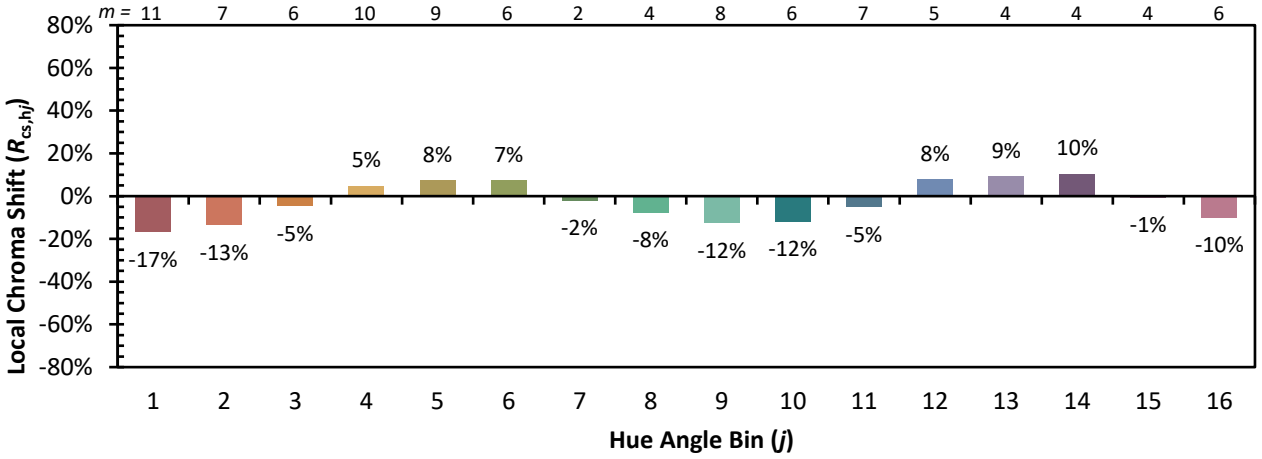
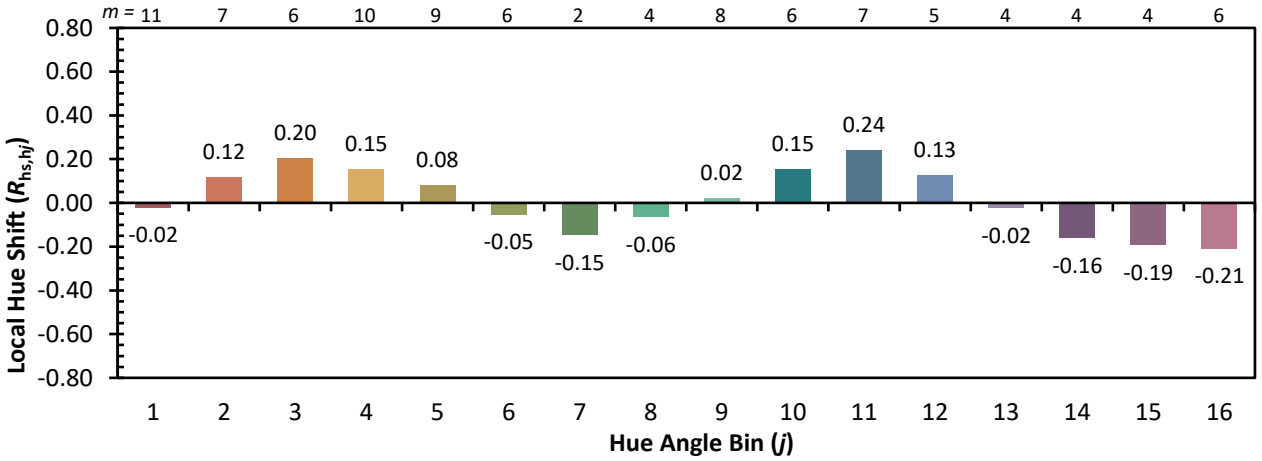
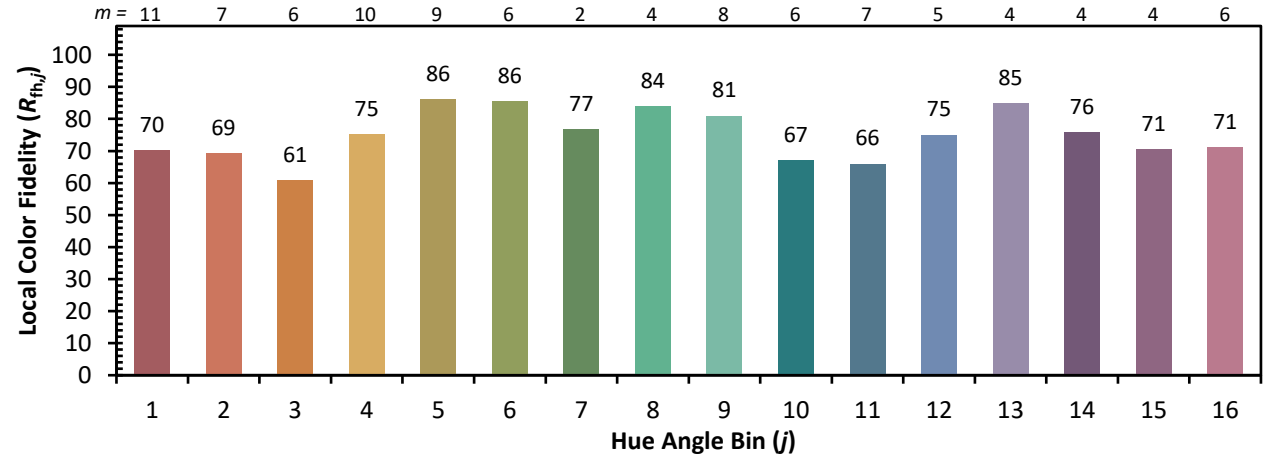
Color Rendition by Hue-Angle Bin







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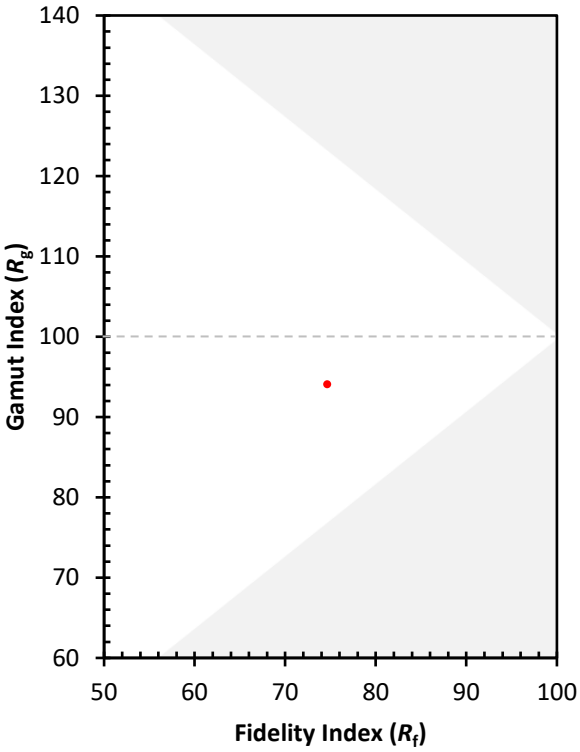
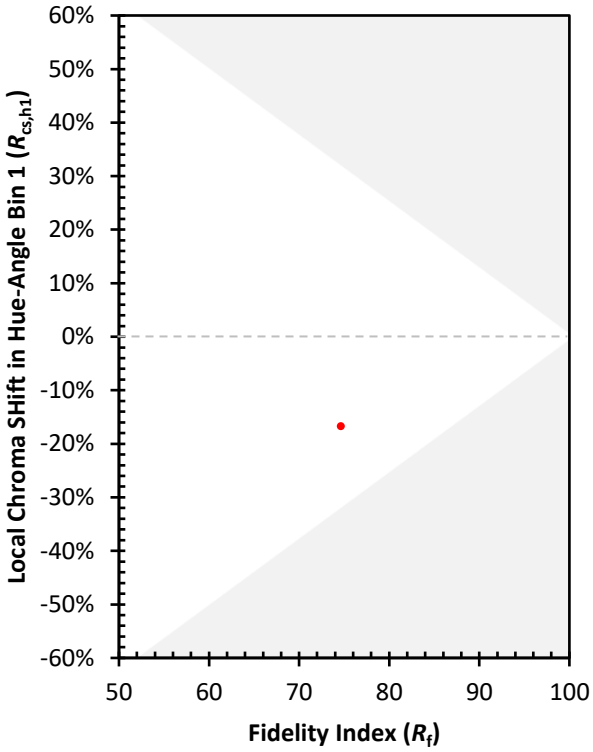
Measure Comparisons





(END OF REPORT)