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: P868549

Luminaire Tested: **EMM2-HTN-SA3B-750-U-T3**

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:	P868549
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-SA3B-750-U-T3
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 150W 70CRI 5000K FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source:	(30) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18889.8 lumens
Efficiency:	N/A
Efficacy:	141.0 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):	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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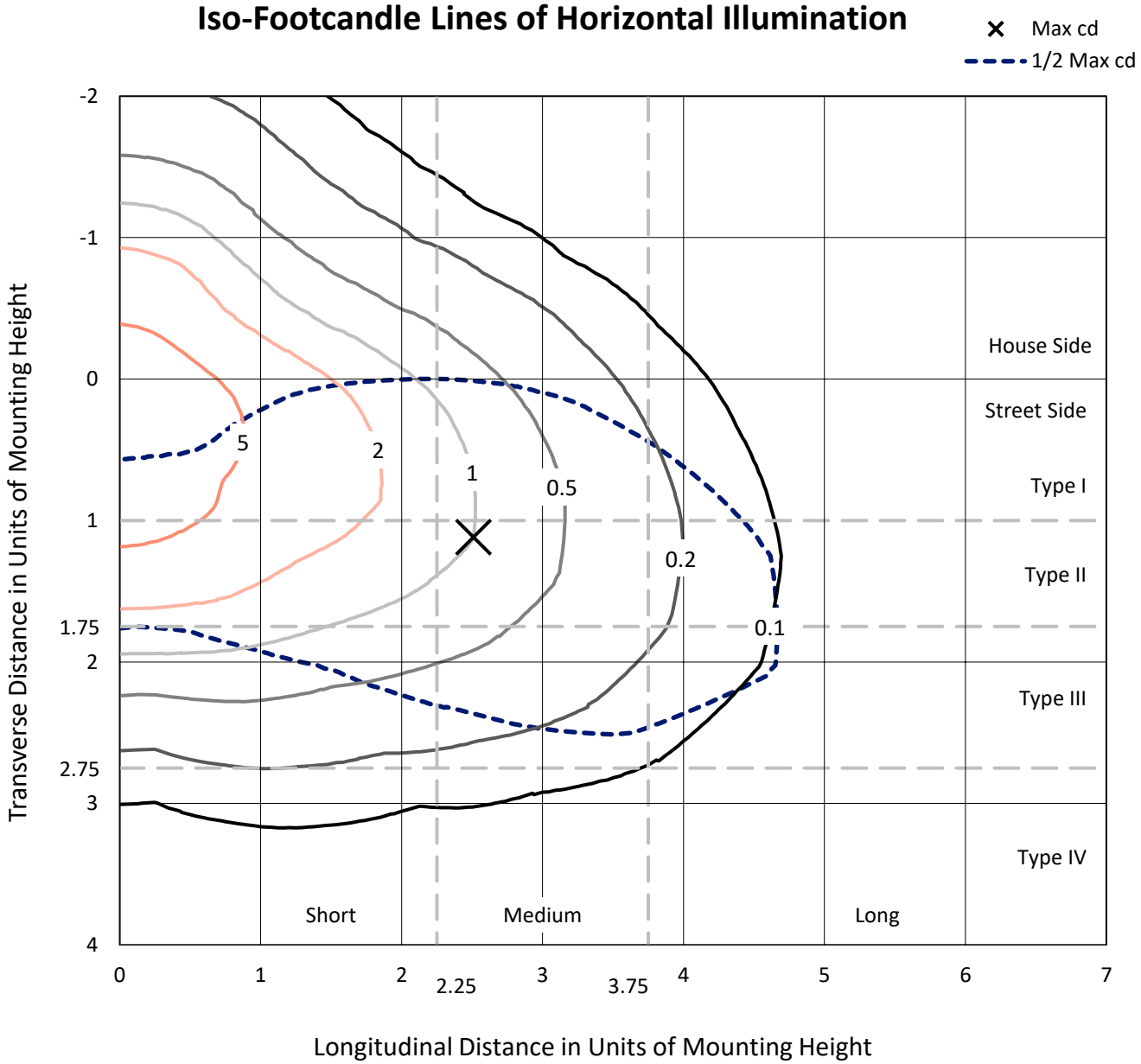
Scaled Data Report

REPORT NUMBER: P868549
CATALOG NUMBER: EMM2-HTN-SA3B-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Medium - N/A

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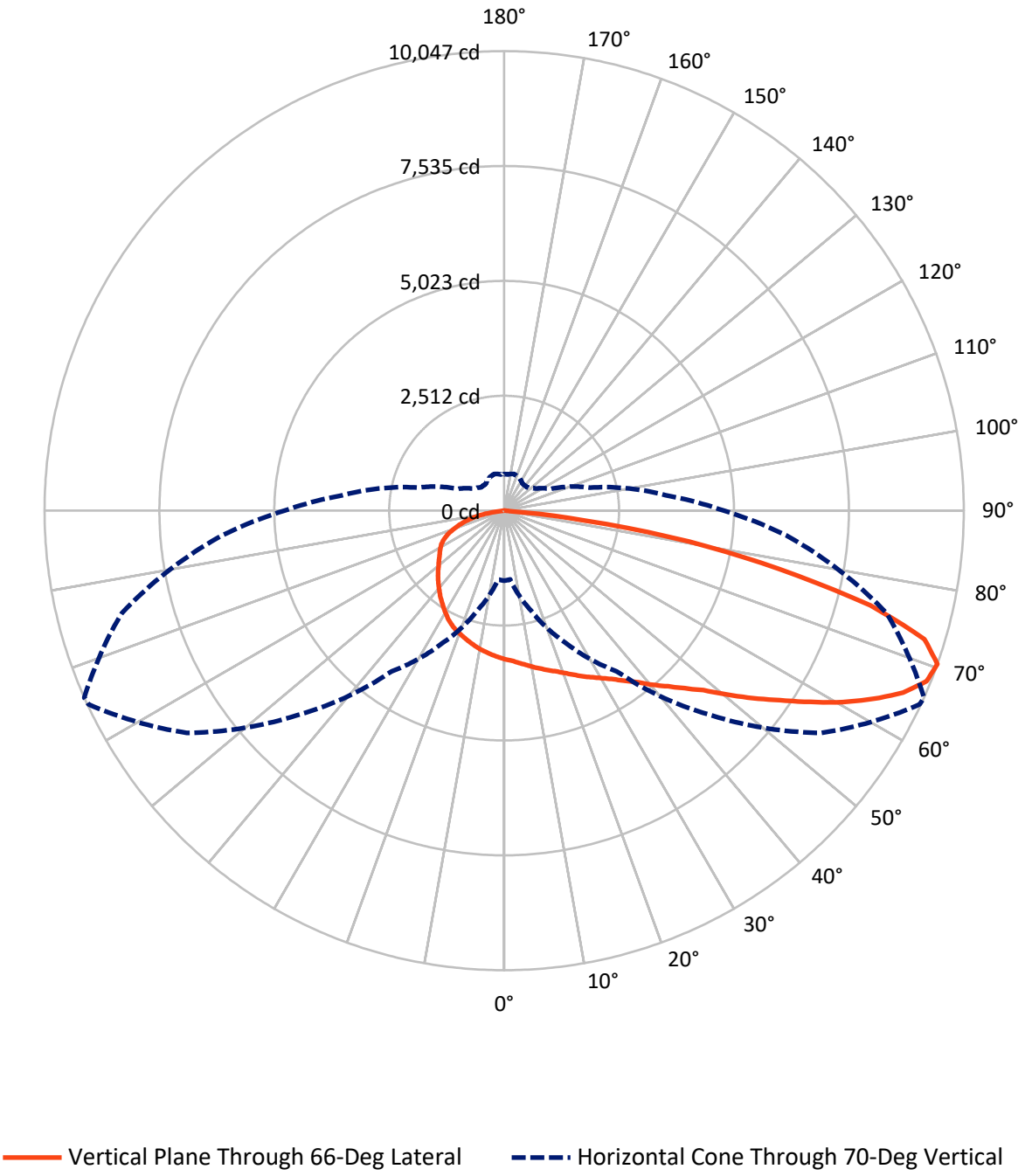
Luminous Intensity Polar Plot



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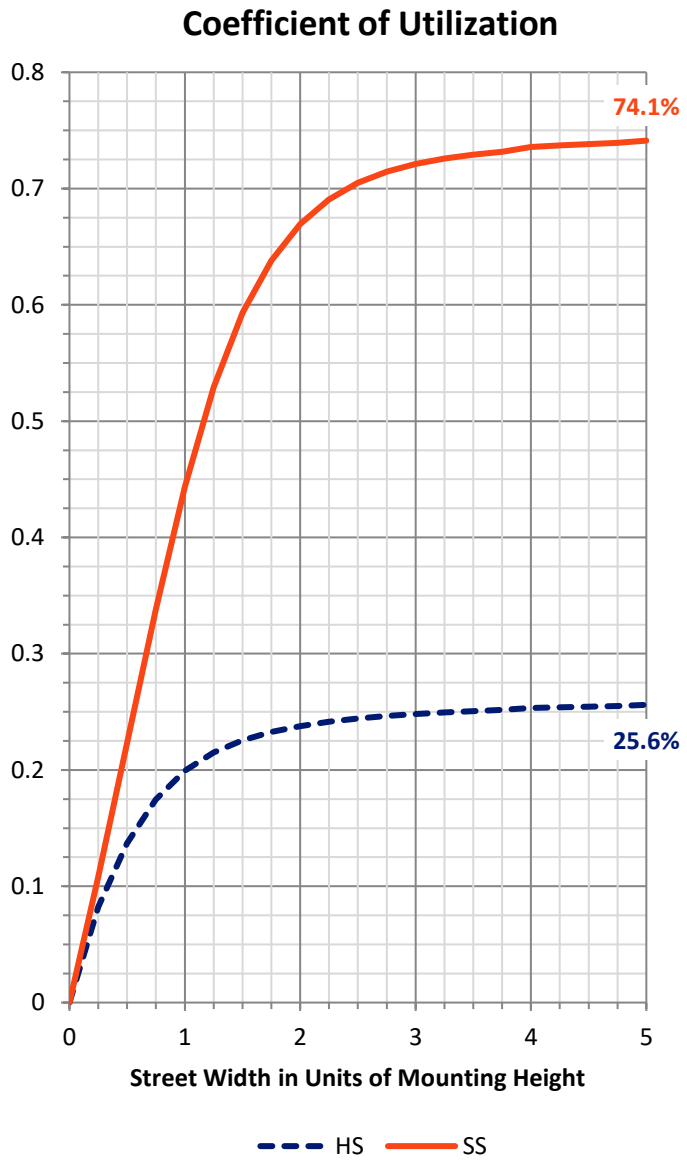
CATALOG NUMBER: EMM2-HTN-SA3B-750-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4868.0	0.0	4868.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	14021.7	0.0	14021.7
	% Fixture	74.2	0.0	74.2
Total	Lumens	18889.8	0.0	18889.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.0	1.6
10°-20°	926.4	4.9
20°-30°	1556.1	8.2
30°-40°	2344.4	12.4
40°-50°	3182.8	16.8
50°-60°	3782.1	20.0
60°-70°	3859.9	20.4
70°-80°	2581.7	13.7
80°-90°	345.4	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°	18889.8	100.0
0°-180°	18889.8	100.0



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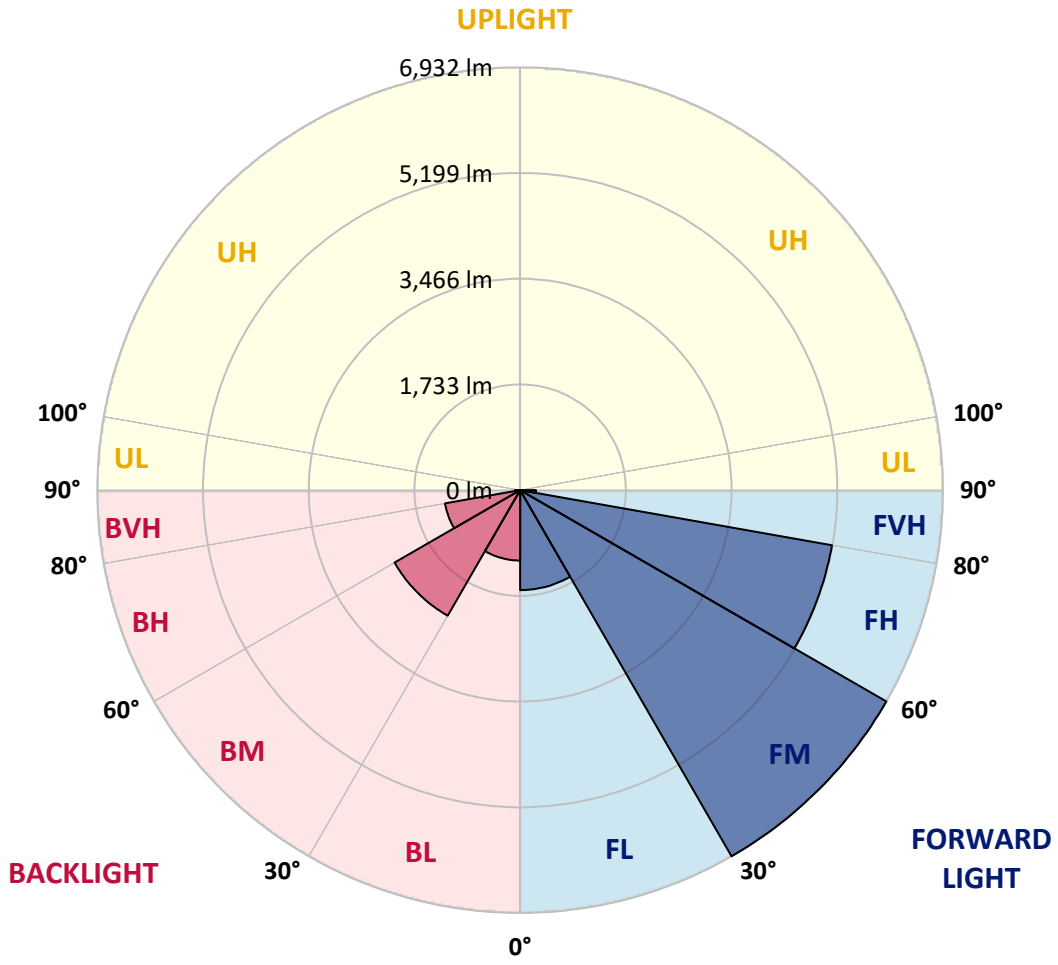
REPORT NUMBER: P868549
CATALOG NUMBER: EMM2-HTN-SA3B-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1639.3	8.7			
FM	(30°-60°)	6932.2	36.7			
FH	(60°-80°)	5191.6	27.5			G3/7500
FVH	(80°-90°)	258.7	1.4			G3/500
BL	(0°-30°)	1154.3	6.1	B3/2500		
BM	(30°-60°)	2377.1	12.6	B2/2500		
BH	(60°-80°)	1250.0	6.6	B3/2500		G3/2500
BVH	(80°-90°)	86.7	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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Scaled Data Report

REPORT NUMBER: P868549
CATALOG NUMBER: EMM2-HTN-SA3B-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	*3250.1*	3250.1	3250.1
2.5°	3366.4	3351.4	3340.2	3347.7	3325.1	3332.6	3306.4	3287.6	*3283.9*	3276.4	3268.8
5°	3471.5	3471.5	3452.7	3452.7	3426.5	3422.7	3385.2	3343.9	*3343.9*	3317.6	3287.6
7.5°	3584.1	3576.6	3554.1	3550.3	3520.3	3512.8	3471.5	3407.7	*3404.0*	3355.2	3310.1
10°	3662.9	3666.7	3651.7	3651.7	3629.1	3610.4	3550.3	3482.8	*3475.3*	3411.5	3340.2
12.5°	3723.0	3730.5	3726.7	3726.7	3707.9	3707.9	3640.4	3550.3	*3542.8*	3460.3	3358.9
15°	3786.8	3783.0	3794.3	3798.0	3790.5	3779.3	3730.5	3625.4	*3621.6*	3512.8	3385.2
17.5°	3843.1	3839.3	3843.1	3861.8	3865.6	3865.6	3816.8	3707.9	*3692.9*	3576.6	3407.7
20°	3876.8	3884.3	3899.4	3921.9	3933.1	3963.2	3921.9	3805.5	*3790.5*	3644.1	3456.5
22.5°	4004.4	3981.9	3993.2	4008.2	4023.2	4064.5	4027.0	3906.9	*3895.6*	3745.5	3512.8
25°	4222.1	4222.1	4195.8	4169.6	4150.8	4169.6	4139.5	4023.2	*4015.7*	3835.5	3576.6
27.5°	4601.2	4601.2	4544.9	4447.3	4323.4	4289.7	4267.1	4147.0	*4124.5*	3933.1	3617.9
30°	5081.5	5096.6	4995.2	4830.1	4601.2	4451.0	4394.7	4263.4	*4252.1*	4030.7	3681.7
32.5°	5595.7	5625.7	5550.7	5310.5	4935.2	4642.4	4552.4	4417.3	*4391.0*	4147.0	3764.2
35°	6057.3	6087.3	5986.0	5760.8	5280.4	4920.2	4740.0	4586.1	*4571.1*	4297.2	3888.1
37.5°	6432.6	6440.1	6376.3	6102.4	5569.4	5152.8	4972.7	4788.8	*4758.8*	4477.3	4019.4
40°	6830.4	6860.5	6796.7	6458.9	5832.1	5404.3	5205.4	5032.8	*5006.5*	4665.0	4143.3
42.5°	7247.0	7243.3	7243.3	6766.6	6094.8	5614.5	5456.8	5265.4	*5250.4*	4856.4	4278.4
45°	7502.2	7517.2	7475.9	6950.5	6481.4	5832.1	5700.8	5561.9	*5535.7*	5122.8	4454.8
47.5°	7566.0	7532.2	7344.6	7093.1	6916.7	6057.3	6008.5	5926.0	*5865.9*	5415.6	4672.5
50°	7479.7	7427.2	7318.3	7156.9	7078.1	6327.5	6320.0	6361.3	*6320.0*	5772.1	4923.9
52.5°	7156.9	7149.4	7130.7	7168.2	7040.6	6541.5	6672.8	6815.4	*6807.9*	6136.1	5186.6
55°	6477.6	6526.4	6751.6	6988.1	6898.0	6687.8	7066.9	7340.8	*7310.8*	6564.0	5456.8
57.5°	5783.3	5832.1	6121.1	6684.1	6759.1	6845.4	7509.7	7937.6	*7888.8*	7029.3	5704.5
60°	5179.1	5126.6	5415.6	6226.2	6564.0	6988.1	7948.8	8541.8	*8500.5*	7494.7	5959.7
62.5°	4222.1	4274.6	4736.3	5558.2	6290.0	7078.1	8309.1	9089.7	*9063.5*	7922.5	6166.2
65°	3340.2	3268.8	3963.2	4856.4	5817.1	7048.1	8620.6	9603.9	*9585.1*	8342.9	6323.8
67.5°	2270.6	2221.8	3137.5	4158.3	5175.4	6807.9	8691.9	9949.2	*9956.7*	8590.6	6365.1
70°	*1531.2*	*1508.7*	*2255.5*	*3197.5*	*4285.9*	*6290.0*	*8470.5*	*10020.5*	*10046.7*	*8654.4*	*6181.2*
72.5°	1129.6	1125.9	1651.3	2281.8	3190.0	5310.5	7866.3	9555.1	*9603.9*	8204.0	5640.7
75°	889.5	900.7	1178.4	1621.3	2127.9	3929.4	6616.5	8192.8	*8267.8*	7085.6	4683.7
77.5°	728.1	728.1	825.7	1163.4	1422.4	2439.4	4758.8	5997.3	*6147.4*	5468.1	3606.6
80°	589.2	600.5	611.7	810.6	942.0	1392.4	2769.7	4000.7	*4109.5*	3809.3	2604.6
82.5°	322.8	345.3	334.0	420.3	472.9	645.5	1099.6	1617.5	*1782.7*	1587.5	1182.2
85°	22.5	15.0	26.3	33.8	41.3	63.8	86.3	120.1	*112.6*	161.4	82.6
87.5°	3.8	3.8	3.8	7.5	7.5	11.3	15.0	15.0	*15.0*	15.0	15.0
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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Scaled Data Report

REPORT NUMBER: P868549
CATALOG NUMBER: EMM2-HTN-SA3B-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3265.1	3246.3	3216.3	3208.8	3197.5	3182.5	3167.5	3145.0	3137.5	3145.0	3152.5
5°	3268.8	3242.6	3193.8	3163.8	3133.7	3107.5	3077.4	3047.4	3028.7	3032.4	3047.4
7.5°	3280.1	3242.6	3167.5	3118.7	3069.9	3028.7	2979.9	2946.1	2923.6	2927.3	2938.6
10°	3295.1	3242.6	3152.5	3069.9	3002.4	2942.3	2893.6	2852.3	2829.7	2826.0	2829.7
12.5°	3298.9	3238.8	3118.7	3017.4	2934.8	2856.0	2803.5	2765.9	2743.4	2732.2	2739.7
15°	3310.1	3227.6	3085.0	2961.1	2859.8	2777.2	2713.4	2668.4	2653.4	2645.9	2642.1
17.5°	3325.1	3223.8	3054.9	2904.8	2784.7	2690.9	2634.6	2589.6	2570.8	2563.3	2570.8
20°	3347.7	3227.6	3021.2	2848.5	2717.2	2623.3	2559.5	2514.5	2499.5	2495.7	2492.0
22.5°	3377.7	3235.1	2994.9	2796.0	2642.1	2548.3	2484.5	2454.5	2443.2	2446.9	2446.9
25°	3407.7	3242.6	2957.4	2724.7	2563.3	2465.7	2420.7	2398.2	2405.7	2420.7	2420.7
27.5°	3434.0	3238.8	2904.8	2649.6	2469.5	2379.4	2345.6	2349.4	2368.1	2394.4	2398.2
30°	3467.8	3238.8	2848.5	2555.8	2364.4	2278.1	2270.6	2300.6	2330.6	2356.9	2356.9
32.5°	3520.3	3261.3	2803.5	2462.0	2255.5	2188.0	2221.8	2263.0	2296.8	2323.1	2330.6
35°	3610.4	3310.1	2773.5	2368.1	2150.5	2101.7	2165.5	2233.0	2255.5	2274.3	2278.1
37.5°	3696.7	3355.2	2735.9	2278.1	2041.6	2022.9	2109.2	2180.5	2184.2	2195.5	2195.5
40°	3779.3	3388.9	2687.1	2180.5	1936.5	1936.5	2037.9	2097.9	2090.4	2079.2	2082.9
42.5°	3869.3	3407.7	2630.8	2090.4	1850.2	1850.2	1932.8	1985.3	1981.6	1996.6	2007.8
45°	3978.2	3445.2	2555.8	2007.8	1760.1	1745.1	1812.7	1857.7	1914.0	1981.6	2000.3
47.5°	4128.3	3497.8	2495.7	1917.8	1685.1	1632.5	1658.8	1752.6	1816.4	1872.7	1880.2
50°	4285.9	3572.8	2443.2	1824.0	1595.0	1501.2	1523.7	1628.8	1666.3	1688.8	1700.1
52.5°	4454.8	3632.9	2398.2	1745.1	1501.2	1366.1	1396.1	1497.4	1523.7	1542.5	1546.2
55°	4601.2	3681.7	2341.9	1670.1	1399.9	1238.5	1276.0	1373.6	1399.9	1422.4	1422.4
57.5°	4755.0	3726.7	2304.3	1606.3	1291.0	1133.4	1159.7	1257.2	1294.8	1302.3	1313.5
60°	4882.6	3768.0	2270.6	1546.2	1189.7	1039.6	1058.3	1144.7	1189.7	1193.4	1201.0
62.5°	4972.7	3794.3	2251.8	1471.2	1088.4	945.8	960.8	1047.1	1099.6	1110.9	1114.6
65°	5029.0	3809.3	2218.0	1373.6	1002.0	866.9	866.9	953.3	1005.8	1032.1	1039.6
67.5°	5002.7	3783.0	2127.9	1261.0	923.2	788.1	784.4	870.7	915.7	930.7	934.5
70°	*4800.1*	*3629.1*	*1944.0*	*1122.1*	*840.7*	*716.8*	*709.3*	*788.1*	*829.4*	*795.6*	*799.4*
72.5°	4387.2	3280.1	1692.6	983.3	754.3	649.3	641.8	709.3	713.1	713.1	709.3
75°	3696.7	2679.6	1351.1	836.9	664.3	578.0	581.7	634.3	638.0	656.8	645.5
77.5°	2833.5	1985.3	1054.6	668.0	562.9	514.2	532.9	551.7	578.0	604.2	578.0
80°	2060.4	1369.8	731.8	499.1	435.3	435.3	442.9	461.6	499.1	525.4	499.1
82.5°	882.0	604.2	337.8	247.7	213.9	210.2	213.9	213.9	262.7	270.2	236.4
85°	67.6	56.3	41.3	41.3	33.8	18.8	18.8	15.0	11.3	11.3	11.3
87.5°	15.0	11.3	11.3	11.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5
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: SP1-2407-157-6

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-750-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-750-U-5WQ-2

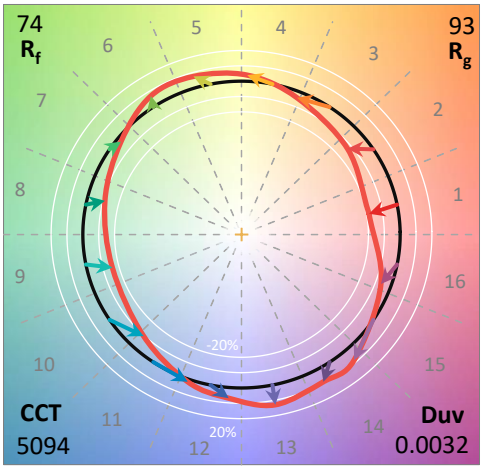
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-6
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-40-750-U-5WQ-2**
Description:	Epic Modern Light Square 40W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	5094	CRI (Ra):	72.0		
CIE u':	0.2082	R1:	68.6	R9:	-39.6
CIE v':	0.4867	R2:	78.1	R10:	47.6
Duv:	0.0032	R3:	84.6	R11:	68.2
CIE x:	0.3430	R4:	71.6	R12:	41.4
CIE y:	0.3564	R5:	69.6	R13:	70.4
CIE z:	0.3006	R6:	69.4	R14:	91.4
Peak Wavelength (nm):	451	R7:	80.9	R15:	61.4
Dominant Wavelength (nm):	568	R8:	53.1		
Purity:	9.86439				
Rf:	73.7				
Rg:	93				



Test Conditions

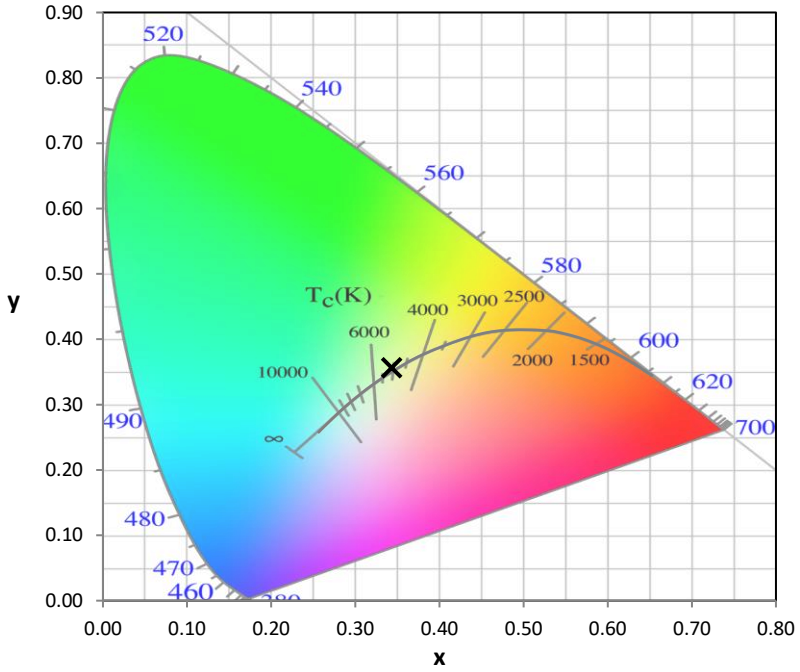
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-6

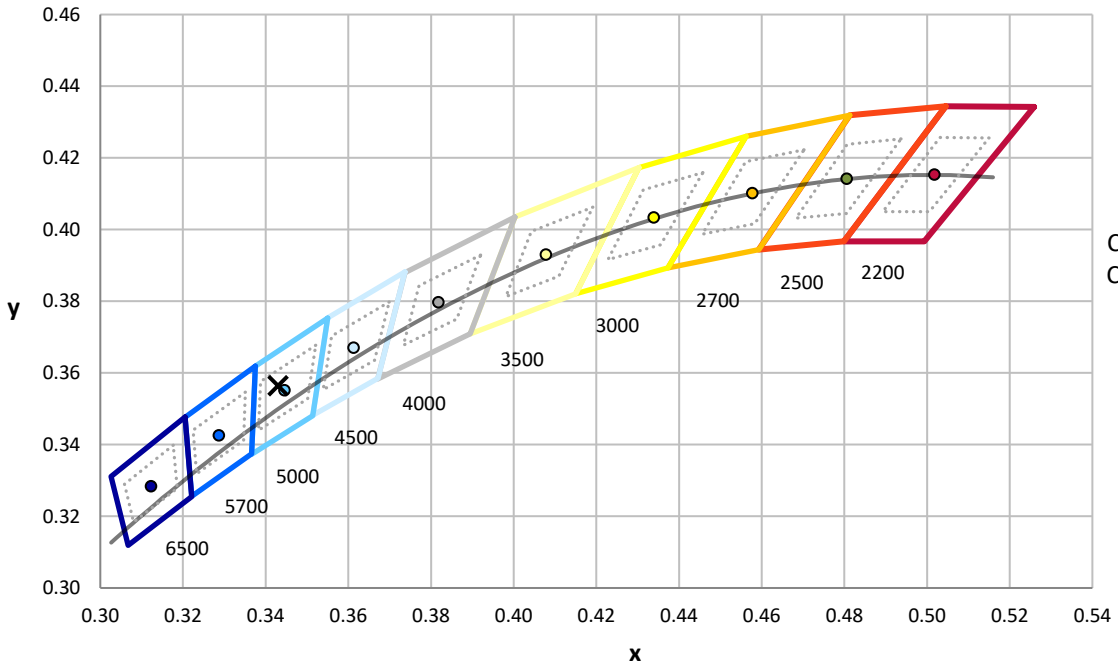
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-6

CIE 1931 Chromaticity Diagram



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

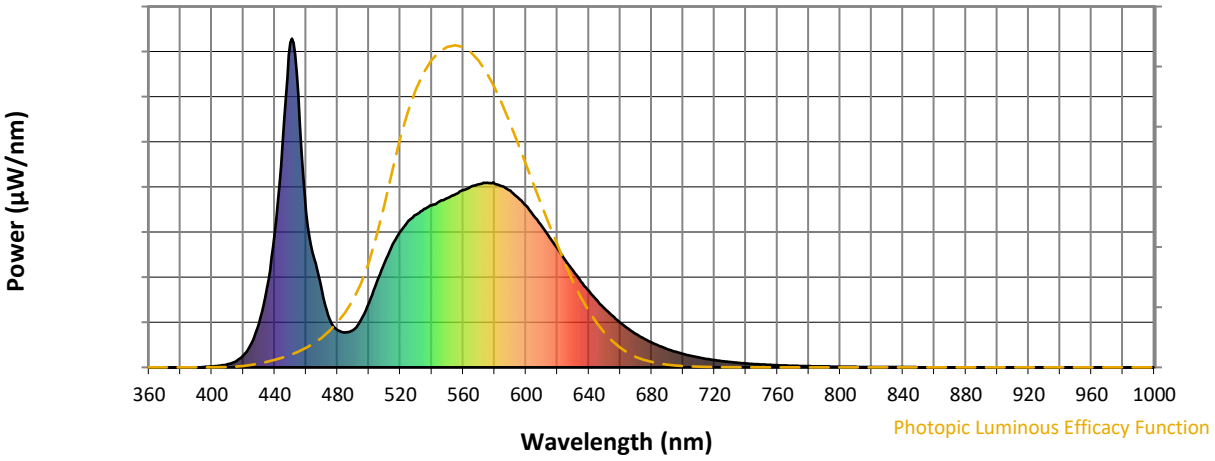


CCT = 5094K
CIE x = 0.3430
CIE y = 0.3564
Duv = 0.0032

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-6

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	114	NR	620	361	NR	750	9	NR	880	0	NR
365	0	NR	495	145	NR	625	326	NR	755	8	NR	885	0	NR
370	0	NR	500	197	NR	630	294	NR	760	7	NR	890	0	NR
375	0	NR	505	259	NR	635	261	NR	765	6	NR	895	0	NR
380	0	NR	510	319	NR	640	232	NR	770	5	NR	900	0	NR
385	0	NR	515	373	NR	645	204	NR	775	4	NR	905	0	NR
390	0	NR	520	414	NR	650	179	NR	780	4	NR	910	0	NR
395	1	NR	525	445	NR	655	157	NR	785	3	NR	915	0	NR
400	3	NR	530	465	NR	660	136	NR	790	3	NR	920	0	NR
405	5	NR	535	482	NR	665	118	NR	795	2	NR	925	0	NR
410	9	NR	540	493	NR	670	102	NR	800	2	NR	930	0	NR
415	18	NR	545	505	NR	675	87	NR	805	2	NR	935	0	NR
420	36	NR	550	515	NR	680	75	NR	810	2	NR	940	0	NR
425	72	NR	555	527	NR	685	65	NR	815	1	NR	945	0	NR
430	134	NR	560	540	NR	690	56	NR	820	1	NR	950	0	NR
435	242	NR	565	550	NR	695	48	NR	825	1	NR	955	0	NR
440	407	NR	570	557	NR	700	41	NR	830	1	NR	960	0	NR
445	684	NR	575	561	NR	705	35	NR	835	1	NR	965	0	NR
450	988	NR	580	559	NR	710	30	NR	840	1	NR	970	0	NR
455	828	NR	585	551	NR	715	26	NR	845	1	NR	975	0	NR
460	473	NR	590	537	NR	720	22	NR	850	1	NR	980	0	NR
465	333	NR	595	516	NR	725	19	NR	855	0	NR	985	0	NR
470	232	NR	600	491	NR	730	16	NR	860	0	NR	990	0	NR
475	146	NR	605	461	NR	735	14	NR	865	0	NR	995	0	NR
480	113	NR	610	429	NR	740	12	NR	870	0	NR	1000	0	NR
485	106	NR	615	395	NR	745	10	NR	875	0	NR			

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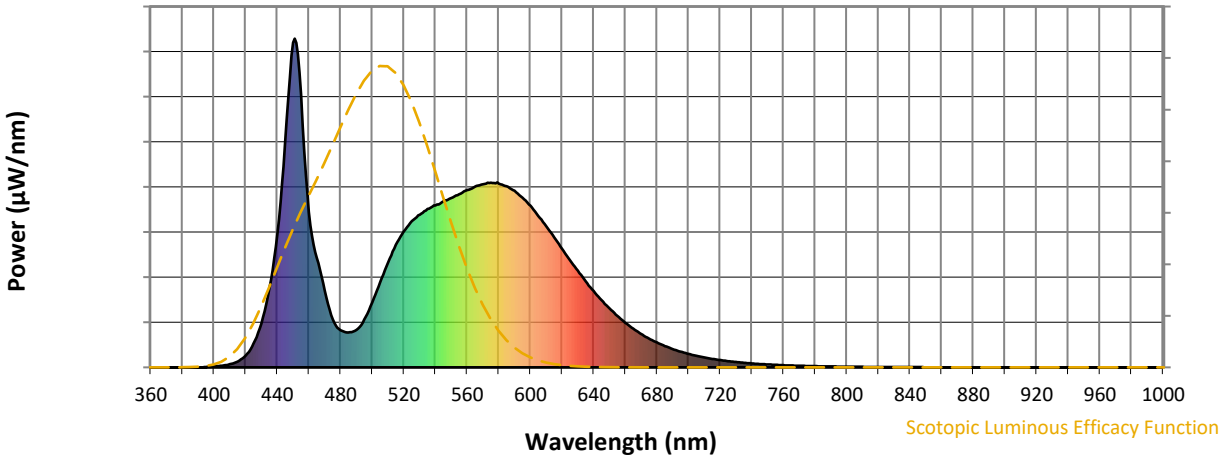
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.81**

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	114	NR	620	361	NR	750	9	NR	880	0	NR
365	0	NR	495	145	NR	625	326	NR	755	8	NR	885	0	NR
370	0	NR	500	197	NR	630	294	NR	760	7	NR	890	0	NR
375	0	NR	505	259	NR	635	261	NR	765	6	NR	895	0	NR
380	0	NR	510	319	NR	640	232	NR	770	5	NR	900	0	NR
385	0	NR	515	373	NR	645	204	NR	775	4	NR	905	0	NR
390	0	NR	520	414	NR	650	179	NR	780	4	NR	910	0	NR
395	1	NR	525	445	NR	655	157	NR	785	3	NR	915	0	NR
400	3	NR	530	465	NR	660	136	NR	790	3	NR	920	0	NR
405	5	NR	535	482	NR	665	118	NR	795	2	NR	925	0	NR
410	9	NR	540	493	NR	670	102	NR	800	2	NR	930	0	NR
415	18	NR	545	505	NR	675	87	NR	805	2	NR	935	0	NR
420	36	NR	550	515	NR	680	75	NR	810	2	NR	940	0	NR
425	72	NR	555	527	NR	685	65	NR	815	1	NR	945	0	NR
430	134	NR	560	540	NR	690	56	NR	820	1	NR	950	0	NR
435	242	NR	565	550	NR	695	48	NR	825	1	NR	955	0	NR
440	407	NR	570	557	NR	700	41	NR	830	1	NR	960	0	NR
445	684	NR	575	561	NR	705	35	NR	835	1	NR	965	0	NR
450	988	NR	580	559	NR	710	30	NR	840	1	NR	970	0	NR
455	828	NR	585	551	NR	715	26	NR	845	1	NR	975	0	NR
460	473	NR	590	537	NR	720	22	NR	850	1	NR	980	0	NR
465	333	NR	595	516	NR	725	19	NR	855	0	NR	985	0	NR
470	232	NR	600	491	NR	730	16	NR	860	0	NR	990	0	NR
475	146	NR	605	461	NR	735	14	NR	865	0	NR	995	0	NR
480	113	NR	610	429	NR	740	12	NR	870	0	NR	1000	0	NR
485	106	NR	615	395	NR	745	10	NR	875	0	NR			

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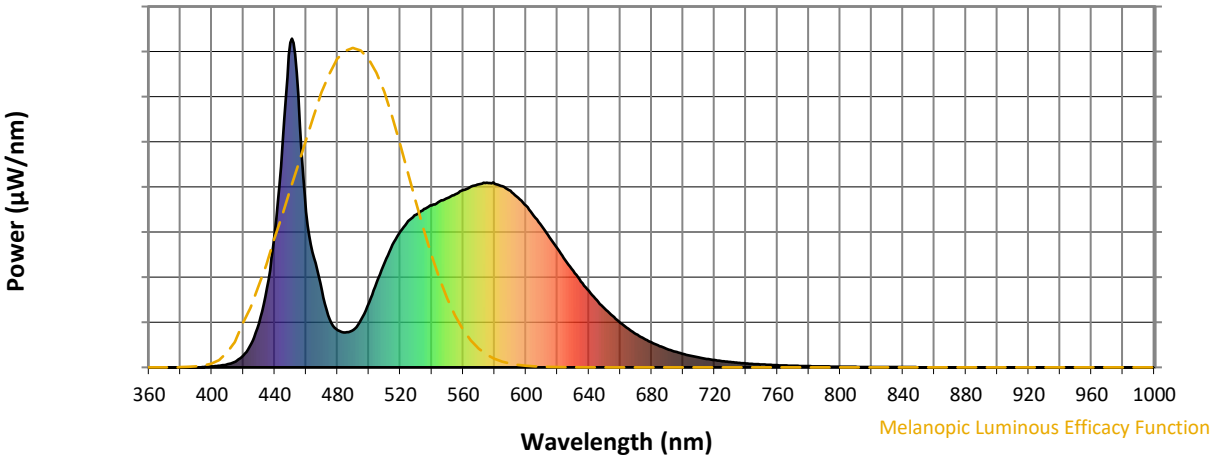
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.73**

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	114	NR	620	361	NR	750	9	NR	880	0	NR
365	0	NR	495	145	NR	625	326	NR	755	8	NR	885	0	NR
370	0	NR	500	197	NR	630	294	NR	760	7	NR	890	0	NR
375	0	NR	505	259	NR	635	261	NR	765	6	NR	895	0	NR
380	0	NR	510	319	NR	640	232	NR	770	5	NR	900	0	NR
385	0	NR	515	373	NR	645	204	NR	775	4	NR	905	0	NR
390	0	NR	520	414	NR	650	179	NR	780	4	NR	910	0	NR
395	1	NR	525	445	NR	655	157	NR	785	3	NR	915	0	NR
400	3	NR	530	465	NR	660	136	NR	790	3	NR	920	0	NR
405	5	NR	535	482	NR	665	118	NR	795	2	NR	925	0	NR
410	9	NR	540	493	NR	670	102	NR	800	2	NR	930	0	NR
415	18	NR	545	505	NR	675	87	NR	805	2	NR	935	0	NR
420	36	NR	550	515	NR	680	75	NR	810	2	NR	940	0	NR
425	72	NR	555	527	NR	685	65	NR	815	1	NR	945	0	NR
430	134	NR	560	540	NR	690	56	NR	820	1	NR	950	0	NR
435	242	NR	565	550	NR	695	48	NR	825	1	NR	955	0	NR
440	407	NR	570	557	NR	700	41	NR	830	1	NR	960	0	NR
445	684	NR	575	561	NR	705	35	NR	835	1	NR	965	0	NR
450	988	NR	580	559	NR	710	30	NR	840	1	NR	970	0	NR
455	828	NR	585	551	NR	715	26	NR	845	1	NR	975	0	NR
460	473	NR	590	537	NR	720	22	NR	850	1	NR	980	0	NR
465	333	NR	595	516	NR	725	19	NR	855	0	NR	985	0	NR
470	232	NR	600	491	NR	730	16	NR	860	0	NR	990	0	NR
475	146	NR	605	461	NR	735	14	NR	865	0	NR	995	0	NR
480	113	NR	610	429	NR	740	12	NR	870	0	NR	1000	0	NR
485	106	NR	615	395	NR	745	10	NR	875	0	NR			

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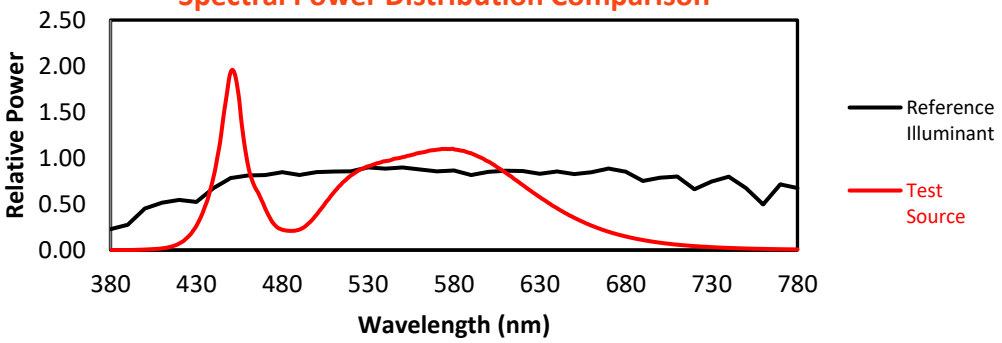
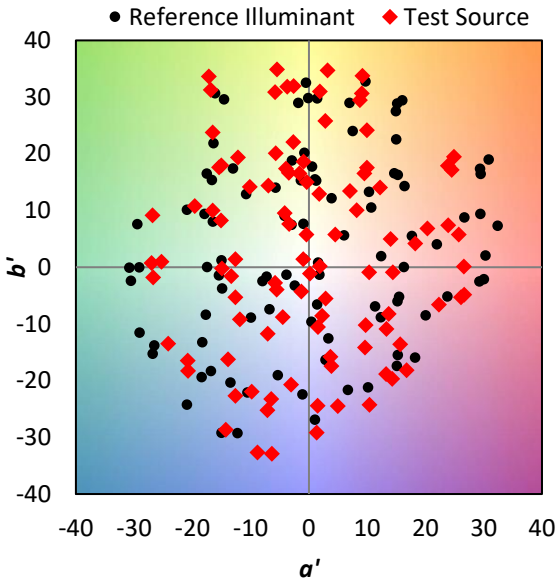
Summary

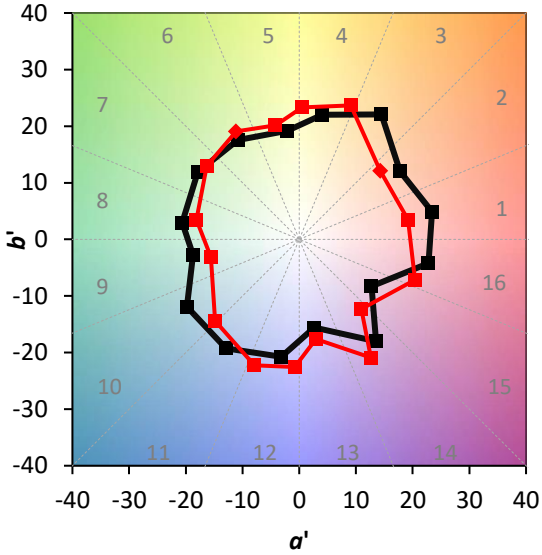
R_f = 73.7
R_g = 93
CIE R_a = 72.0
R_9 = -39.6

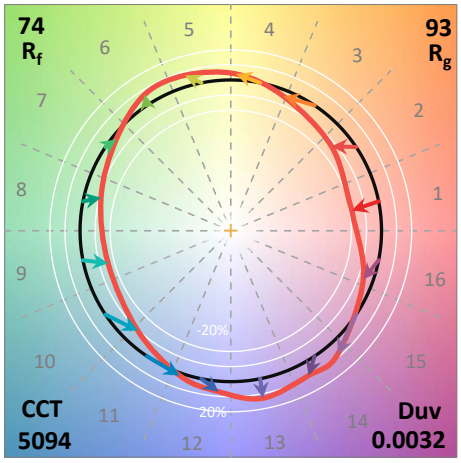
Spectral Power Distribution Comparison

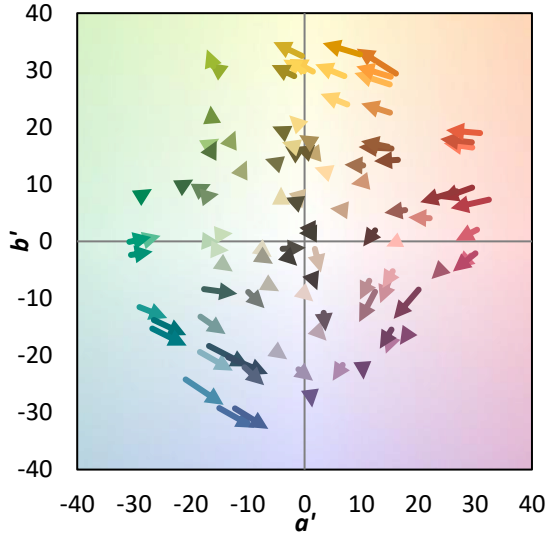


Color Vector Graphics









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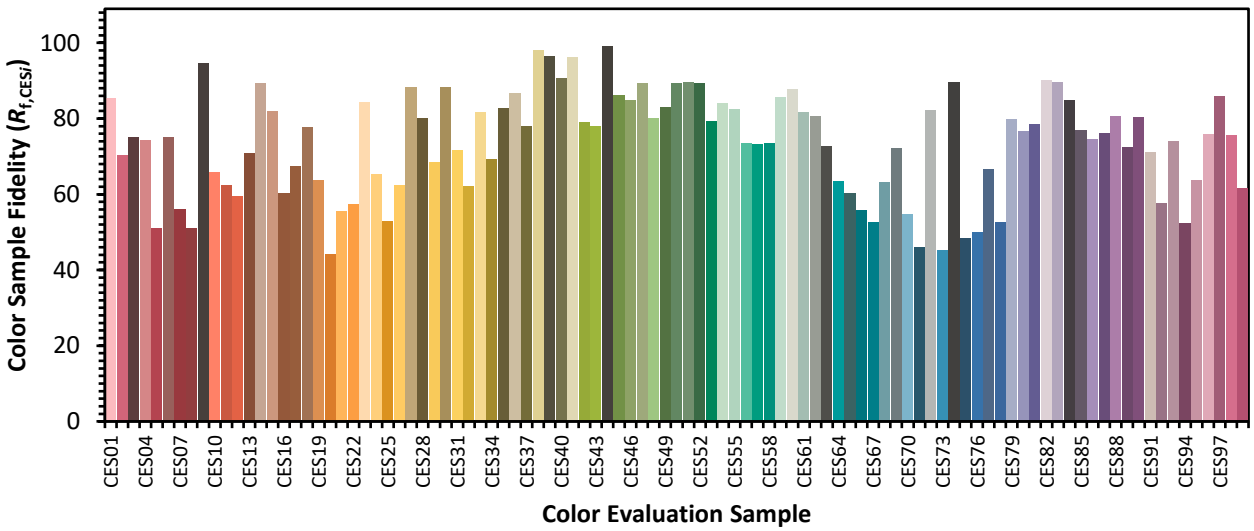
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 62	CES51 = 90	CES76 = 50
CES02 = 59	CES27 = 88	CES52 = 89	CES77 = 67
CES03 = 30	CES28 = 80	CES53 = 79	CES78 = 53
CES04 = 69	CES29 = 69	CES54 = 84	CES79 = 80
CES05 = 46	CES30 = 88	CES55 = 83	CES80 = 77
CES06 = 50	CES31 = 72	CES56 = 74	CES81 = 78
CES07 = 38	CES32 = 62	CES57 = 73	CES82 = 90
CES08 = 38	CES33 = 82	CES58 = 73	CES83 = 90
CES09 = 29	CES34 = 69	CES59 = 86	CES84 = 85
CES10 = 72	CES35 = 83	CES60 = 88	CES85 = 77
CES11 = 56	CES36 = 87	CES61 = 82	CES86 = 75
CES12 = 61	CES37 = 78	CES62 = 81	CES87 = 76
CES13 = 41	CES38 = 98	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 91	CES65 = 60	CES90 = 80
CES16 = 46	CES41 = 96	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 79	CES67 = 53	CES92 = 58
CES18 = 55	CES43 = 78	CES68 = 63	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 52
CES20 = 63	CES45 = 86	CES70 = 55	CES95 = 64
CES21 = 85	CES46 = 85	CES71 = 46	CES96 = 76
CES22 = 77	CES47 = 89	CES72 = 82	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 45	CES98 = 76
CES24 = 90	CES49 = 83	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 48	



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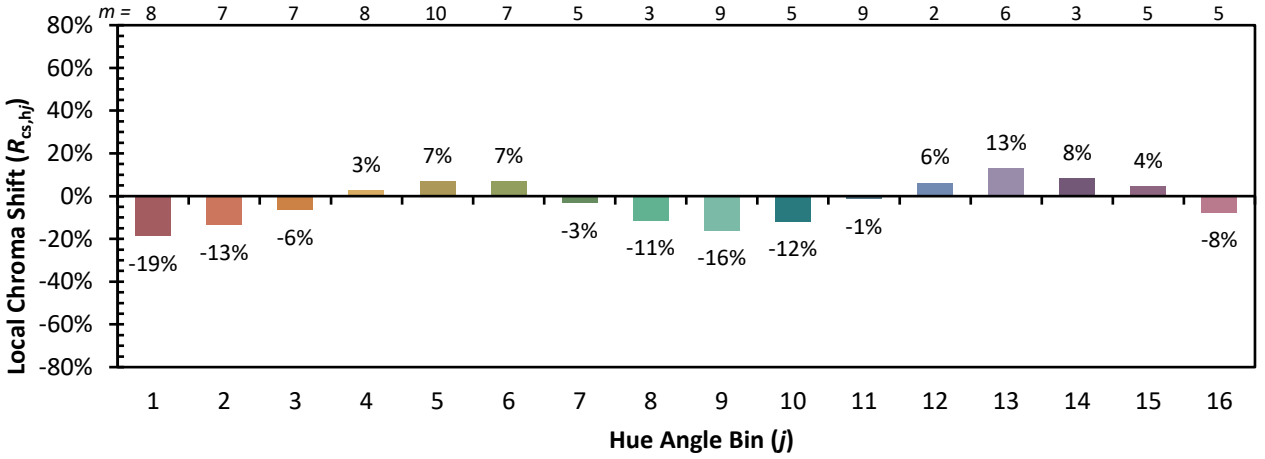
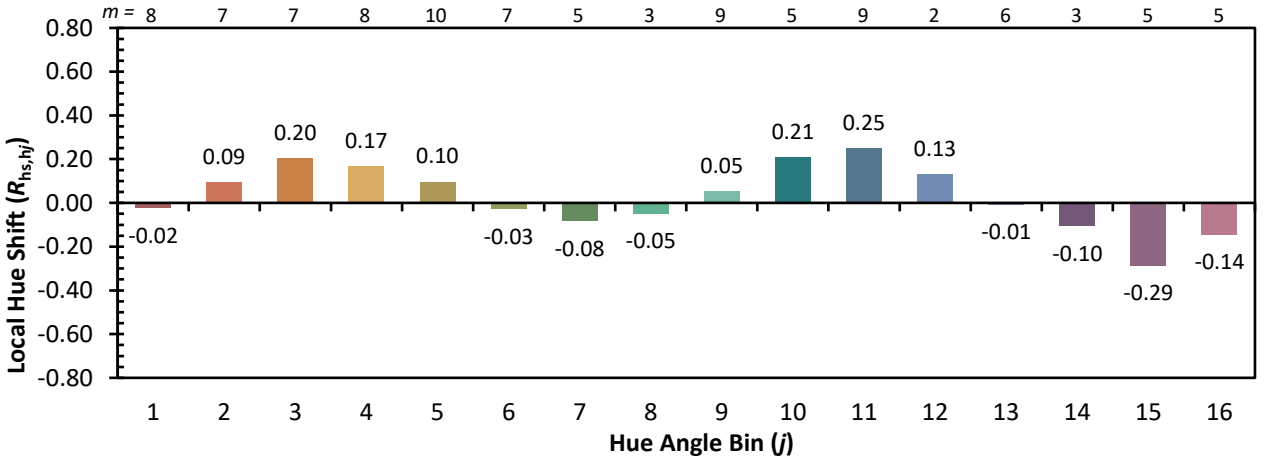
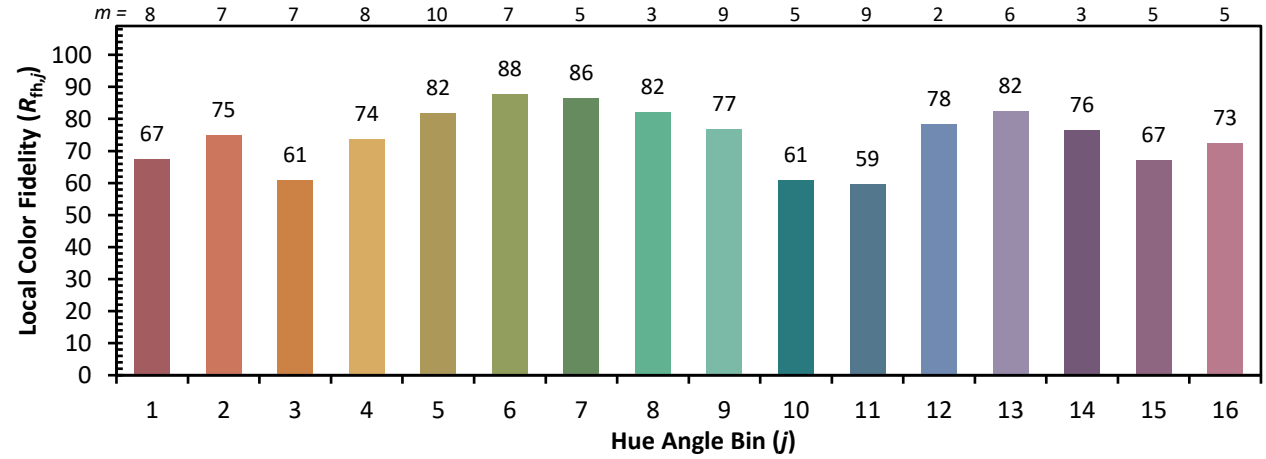
Color Rendition by Hue-Angle Bin







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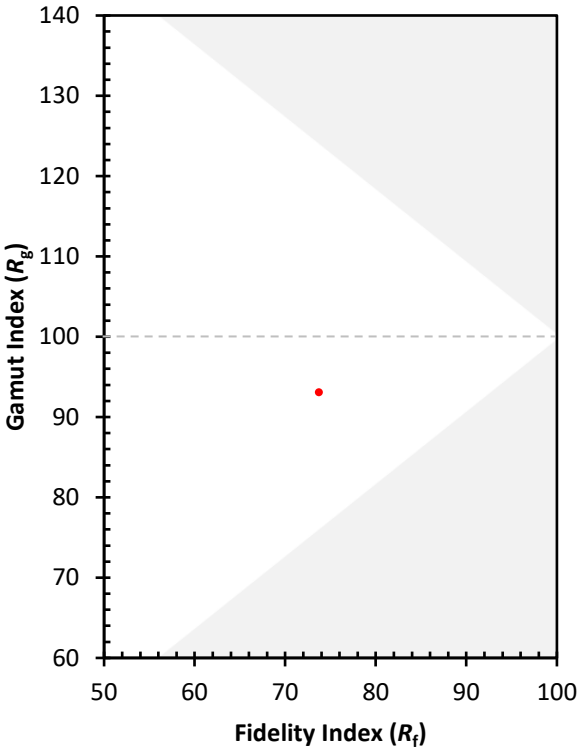
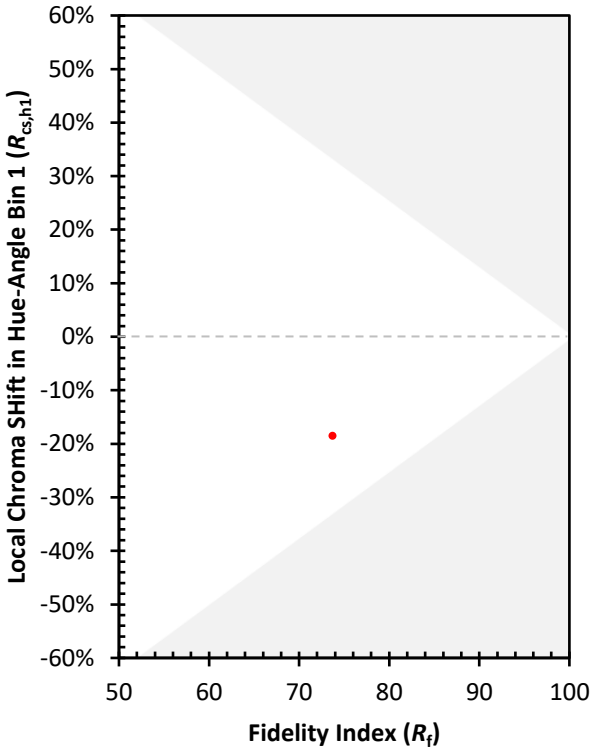
Measure Comparisons





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