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: P869945

Luminaire Tested: **MEM2-HTN-SA-90-830-U-T2U-HSS**

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:	P869945
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-T2U-HSS
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 90W 80CRI 3000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source:	(20) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7600.3 lumens
Efficiency:	N/A
Efficacy:	84.4 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

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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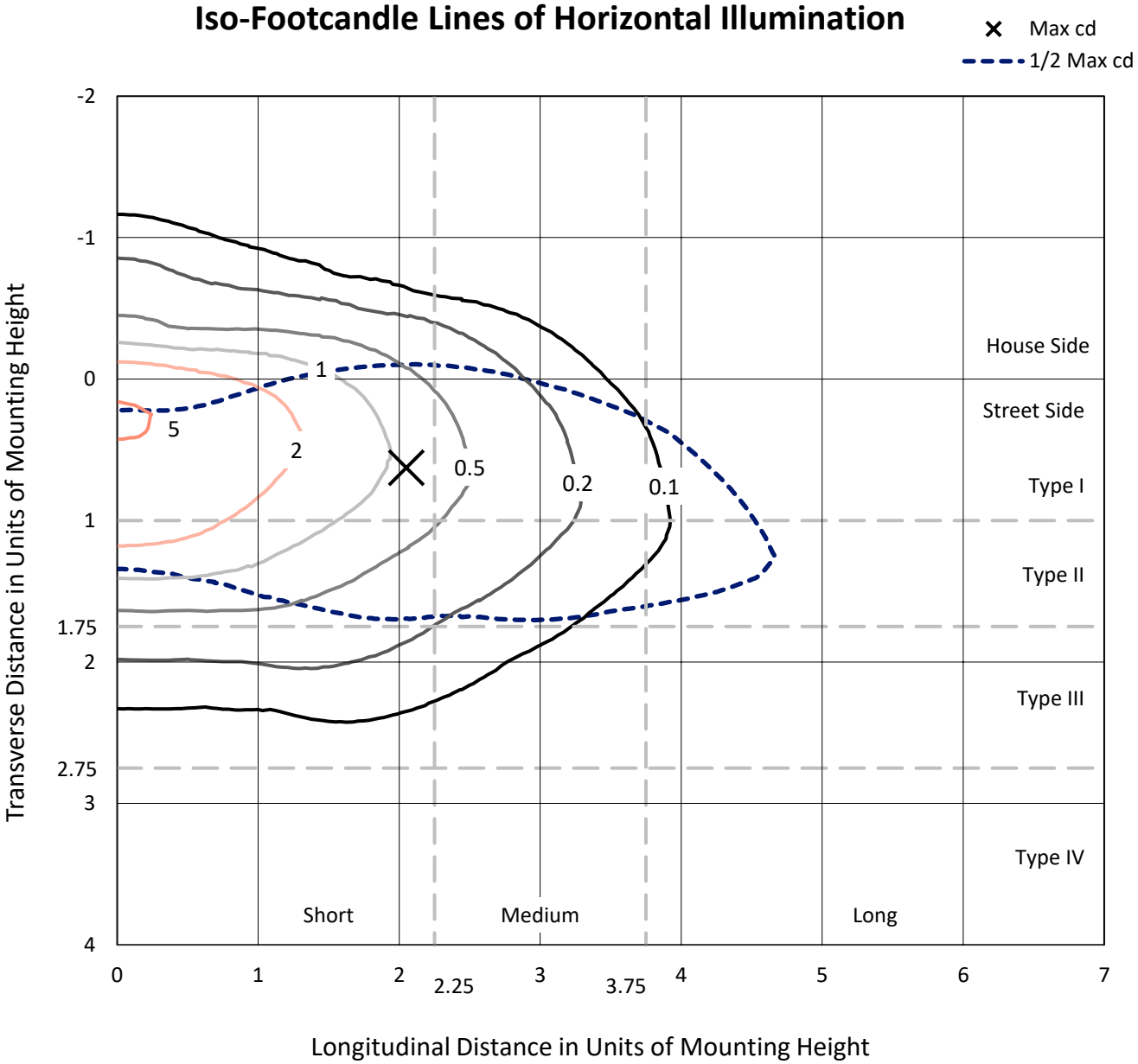
REPORT NUMBER: P869945
CATALOG NUMBER: MEM2-HTN-SA-90-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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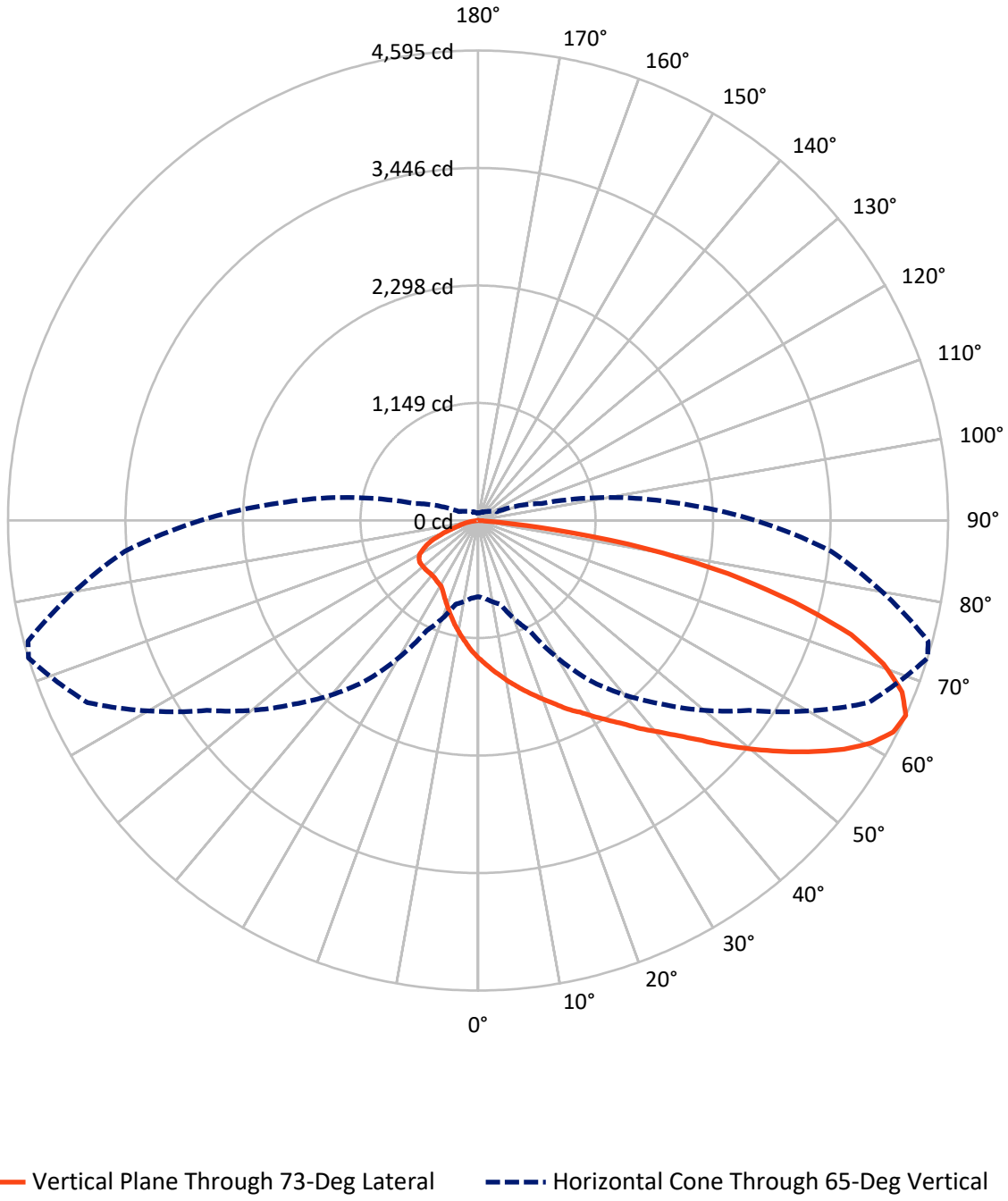
Luminous Intensity Polar Plot



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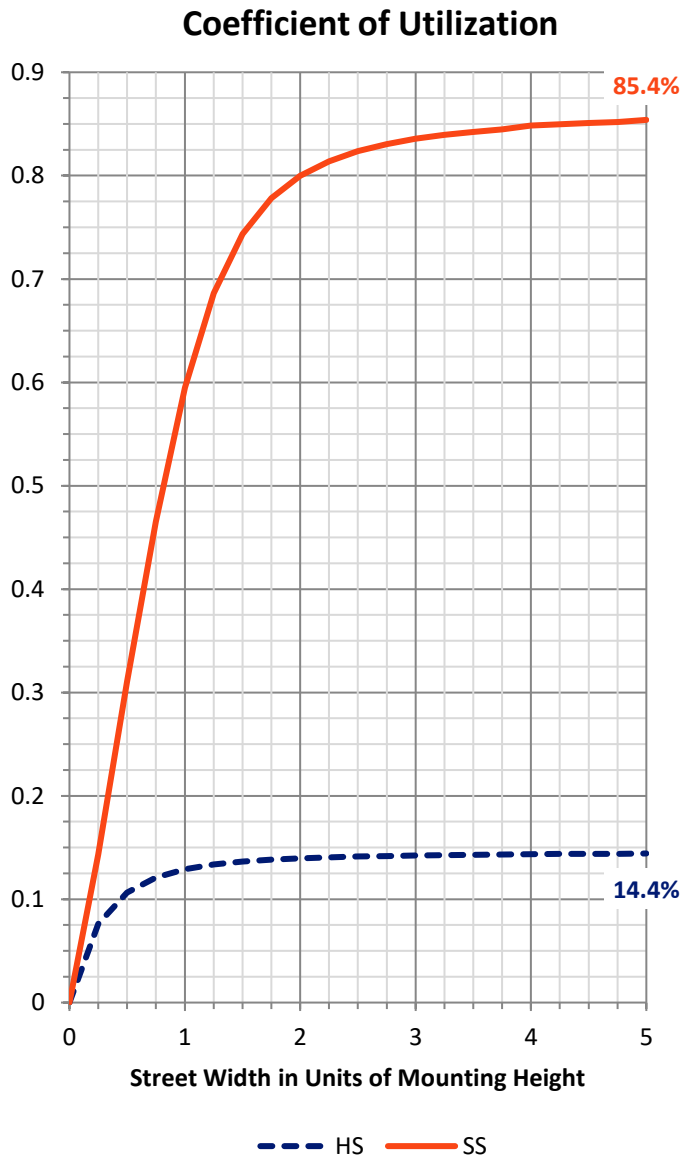
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.2	0.0	1105.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6495.1	0.0	6495.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	7600.3	0.0	7600.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.7
10°-20°	395.5	5.2
20°-30°	662.4	8.7
30°-40°	999.2	13.1
40°-50°	1411.9	18.6
50°-60°	1588.7	20.9
60°-70°	1424.6	18.7
70°-80°	866.5	11.4
80°-90°	121.2	1.6
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°	7600.3	100.0
0°-180°	7600.3	100.0



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REPORT NUMBER: P869945
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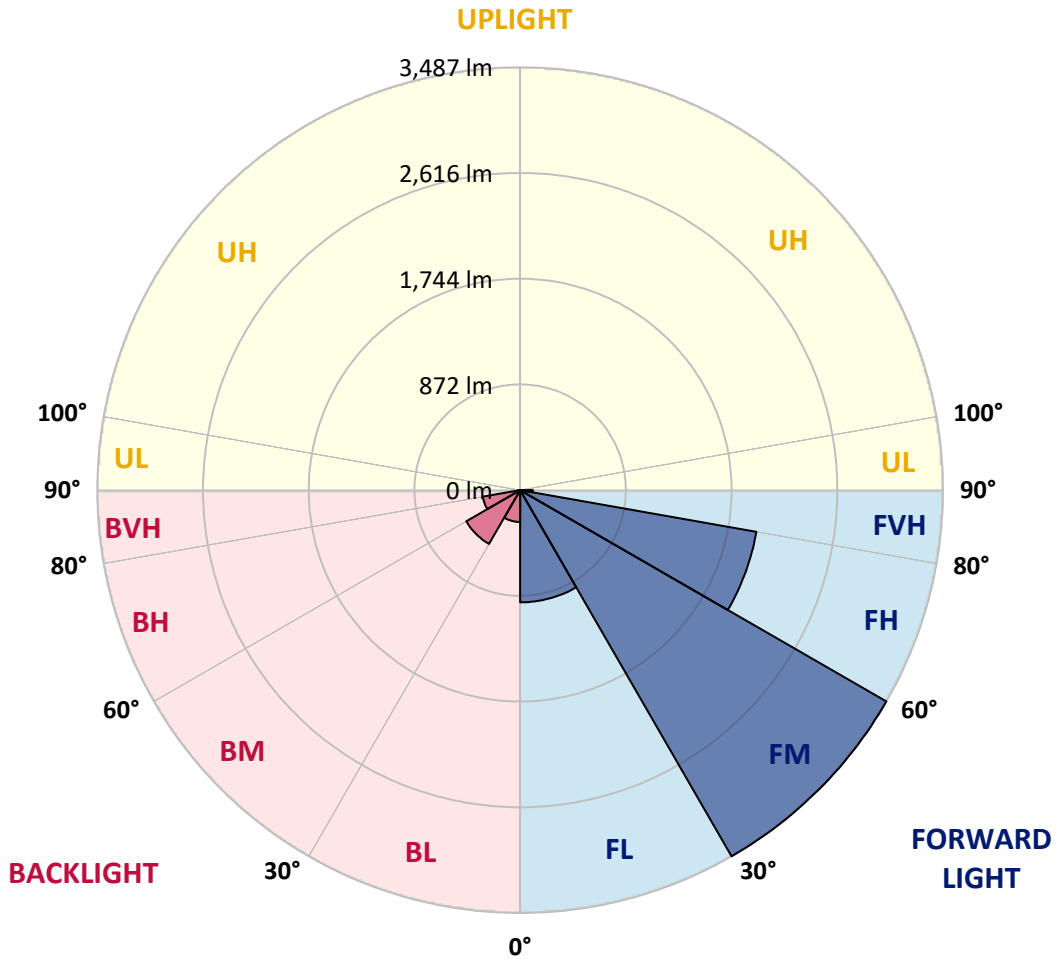
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	925.6	12.2			
FM	(30°-60°)	3487.4	45.9			
FH	(60°-80°)	1978.0	26.0			G2/5000
FVH	(80°-90°)	104.2	1.4			G2/225
BL	(0°-30°)	262.6	3.5	B1/500		
BM	(30°-60°)	512.5	6.7	B1/1000		
BH	(60°-80°)	313.1	4.1	B1/500		G1/500
BVH	(80°-90°)	17.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



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REPORT NUMBER: P869945
CATALOG NUMBER: MEM2-HTN-SA-90-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	*1348.3*	1348.3	1348.3
2.5°	1556.3	1547.3	1533.9	1522.7	1502.6	1475.8	1453.4	1424.3	*1404.2*	1397.5	1368.4
5°	1782.1	1770.9	1755.3	1728.4	1674.8	1643.5	1585.3	1518.3	*1464.6*	1453.4	1386.3
7.5°	2014.6	2010.2	1974.4	1934.1	1869.3	1800.0	1710.5	1605.5	*1527.2*	1509.3	1406.5
10°	2211.4	2191.3	2171.2	2133.2	2063.8	1965.5	1849.2	1703.8	*1594.3*	1565.2	1426.6
12.5°	2329.9	2323.2	2305.3	2260.6	2193.5	2108.6	1969.9	1800.0	*1659.1*	1618.9	1446.7
15°	2417.1	2423.8	2405.9	2376.9	2307.6	2227.1	2092.9	1900.6	*1728.4*	1681.5	1469.1
17.5°	2499.9	2495.4	2493.2	2459.6	2397.0	2316.5	2180.1	1983.3	*1797.8*	1746.3	1491.4
20°	2546.8	2549.1	2544.6	2531.2	2470.8	2392.5	2265.1	2081.7	*1873.8*	1815.6	1520.5
22.5°	2571.4	2580.4	2589.3	2587.1	2537.9	2477.5	2345.6	2160.0	*1952.0*	1891.7	1556.3
25°	2587.1	2593.8	2613.9	2640.7	2596.0	2546.8	2435.0	2253.9	*2043.7*	1974.4	1598.7
27.5°	2600.5	2609.4	2634.0	2674.3	2638.5	2609.4	2513.3	2334.4	*2122.0*	2059.4	1647.9
30°	2687.7	2698.9	2698.9	2719.0	2678.7	2672.0	2600.5	2430.5	*2220.4*	2153.3	1710.5
32.5°	2918.0	2895.6	2855.4	2835.3	2739.1	2741.3	2685.4	2526.7	*2325.5*	2258.4	1788.8
35°	3117.0	3117.0	3067.8	3003.0	2848.7	2817.4	2783.8	2654.1	*2439.5*	2374.6	1891.7
37.5°	3309.3	3311.5	3260.1	3204.2	3027.6	2915.8	2897.9	2777.1	*2580.4*	2504.3	1999.0
40°	3430.0	3443.5	3430.0	3387.6	3217.6	3087.9	3009.7	2915.8	*2714.5*	2656.4	2122.0
42.5°	3450.2	3477.0	3526.2	3539.6	3356.3	3242.2	3152.8	3058.9	*2875.5*	2810.7	2262.8
45°	3398.7	3407.7	3517.2	3532.9	3459.1	3365.2	3304.8	3226.6	*3067.8*	3011.9	2419.4
47.5°	3257.9	3240.0	3278.0	3414.4	3443.5	3439.0	3454.6	3416.6	*3291.4*	3219.9	2591.5
50°	2956.0	2962.7	3085.7	3251.2	3351.8	3465.8	3566.4	3608.9	*3517.2*	3445.7	2777.1
52.5°	2405.9	2437.3	2672.0	3063.3	3237.7	3447.9	3646.9	3790.0	*3752.0*	3682.7	2960.5
55°	1976.6	2023.6	2258.4	2761.5	3081.2	3360.7	3693.9	3980.1	*3986.8*	3933.1	3128.2
57.5°	1547.3	1585.3	1833.5	2294.1	2857.6	3224.3	3700.6	4143.3	*4219.4*	4156.7	3275.8
60°	1211.9	1238.7	1384.1	1911.8	2582.6	3029.8	3651.4	4273.0	*4416.1*	4369.2	3403.2
62.5°	919.0	939.1	1068.8	1511.5	2245.0	2801.7	3485.9	4320.0	*4554.8*	4510.0	3474.8
65°	*744.6*	*762.5*	*847.4*	*1187.3*	*1911.8*	*2537.9*	*3235.5*	*4212.6*	*4595.0*	*4554.8*	*3465.8*
67.5°	608.2	614.9	684.2	925.7	1616.6	2240.5	2868.8	3933.1	*4472.0*	4469.8	3363.0
70°	491.9	509.8	567.9	737.9	1343.8	1898.4	2441.7	3494.9	*4205.9*	4228.3	3157.2
72.5°	418.1	422.6	474.0	610.4	1095.6	1540.6	2021.4	2989.5	*3814.6*	3832.5	2835.3
75°	353.3	360.0	398.0	494.2	889.9	1223.1	1625.6	2414.9	*3193.0*	3269.0	2388.1
77.5°	304.1	306.3	333.2	407.0	632.8	919.0	1191.8	1811.2	*2499.9*	2553.5	1876.0
80°	239.3	243.7	272.8	322.0	440.5	597.0	822.9	1238.7	*1670.3*	1730.7	1299.1
82.5°	111.8	125.2	131.9	176.6	230.3	295.2	389.1	516.5	*755.8*	753.5	606.0
85°	11.2	8.9	8.9	13.4	20.1	20.1	24.6	29.1	*58.1*	69.3	53.7
87.5°	0.0	0.0	0.0	2.2	4.5	4.5	4.5	6.7	*6.7*	6.7	6.7
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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REPORT NUMBER: P869945
CATALOG NUMBER: MEM2-HTN-SA-90-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3	1348.3
2.5°	1355.0	1334.9	1299.1	1265.6	1243.2	1225.3	1196.3	1178.4	1165.0	1147.1	1144.8
5°	1350.6	1314.8	1243.2	1182.8	1124.7	1075.5	1024.1	992.8	959.2	943.6	957.0
7.5°	1355.0	1296.9	1185.1	1093.4	1006.2	927.9	860.9	818.4	787.1	771.4	773.7
10°	1357.3	1281.2	1135.9	1008.4	896.6	805.0	728.9	670.8	632.8	623.8	612.7
12.5°	1352.8	1261.1	1086.7	925.7	791.5	690.9	601.5	556.8	518.8	500.9	500.9
15°	1357.3	1245.5	1035.3	849.7	697.6	581.4	505.3	456.1	433.8	418.1	420.4
17.5°	1357.3	1232.0	986.1	775.9	606.0	498.6	429.3	389.1	366.7	357.8	355.5
20°	1372.9	1220.9	939.1	706.6	525.5	424.8	368.9	337.6	319.7	310.8	306.3
22.5°	1384.1	1211.9	896.6	639.5	458.4	371.2	324.2	295.2	281.7	277.3	277.3
25°	1404.2	1209.7	858.6	574.7	404.7	330.9	288.4	266.1	254.9	250.4	250.4
27.5°	1433.3	1214.2	822.9	518.8	364.5	290.7	259.4	241.5	234.8	232.5	230.3
30°	1475.8	1234.3	800.5	476.3	326.5	266.1	237.0	225.8	221.4	219.1	219.1
32.5°	1531.7	1270.1	791.5	453.9	304.1	246.0	221.4	212.4	207.9	207.9	205.7
35°	1601.0	1310.3	784.8	433.8	288.4	232.5	210.2	201.2	199.0	199.0	199.0
37.5°	1683.7	1352.8	773.7	420.4	279.5	221.4	201.2	192.3	192.3	192.3	192.3
40°	1775.4	1415.4	771.4	411.4	272.8	214.7	192.3	183.4	183.4	183.4	183.4
42.5°	1878.2	1482.5	769.2	404.7	268.3	210.2	183.4	174.4	174.4	174.4	174.4
45°	2003.5	1567.4	773.7	400.2	268.3	205.7	176.6	165.5	163.2	163.2	163.2
47.5°	2126.4	1647.9	778.1	395.8	263.8	199.0	167.7	156.5	154.3	152.0	152.0
50°	2258.4	1730.7	778.1	391.3	259.4	192.3	161.0	145.3	143.1	140.9	140.9
52.5°	2388.1	1800.0	780.4	384.6	248.2	181.1	149.8	136.4	131.9	129.7	127.5
55°	2513.3	1873.8	782.6	373.4	234.8	169.9	143.1	127.5	120.7	116.3	116.3
57.5°	2607.2	1934.1	771.4	351.1	216.9	158.8	131.9	116.3	107.3	102.9	102.9
60°	2696.6	1972.2	751.3	317.5	199.0	147.6	123.0	105.1	96.1	91.7	91.7
62.5°	2732.4	1978.9	704.3	259.4	176.6	136.4	111.8	96.1	89.4	87.2	87.2
65°	*2712.3*	*1949.8*	*641.7*	*205.7*	*156.5*	*123.0*	*102.9*	*89.4*	*80.5*	*73.8*	*73.8*
67.5°	2602.7	1849.2	556.8	163.2	136.4	111.8	93.9	80.5	71.6	64.8	64.8
70°	2394.8	1688.2	433.8	129.7	118.5	98.4	85.0	73.8	64.8	58.1	58.1
72.5°	2088.4	1464.6	315.3	109.6	102.9	87.2	76.0	67.1	58.1	53.7	53.7
75°	1721.7	1129.2	223.6	93.9	91.7	78.3	69.3	60.4	53.7	49.2	49.2
77.5°	1292.4	787.1	174.4	82.7	80.5	71.6	62.6	55.9	49.2	47.0	44.7
80°	860.9	487.5	131.9	62.6	60.4	55.9	51.4	47.0	40.2	35.8	35.8
82.5°	384.6	205.7	67.1	35.8	31.3	26.8	22.4	15.7	15.7	13.4	13.4
85°	40.2	26.8	13.4	8.9	8.9	6.7	6.7	6.7	4.5	4.5	4.5
87.5°	6.7	6.7	4.5	4.5	4.5	2.2	2.2	2.2	2.2	2.2	2.2
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

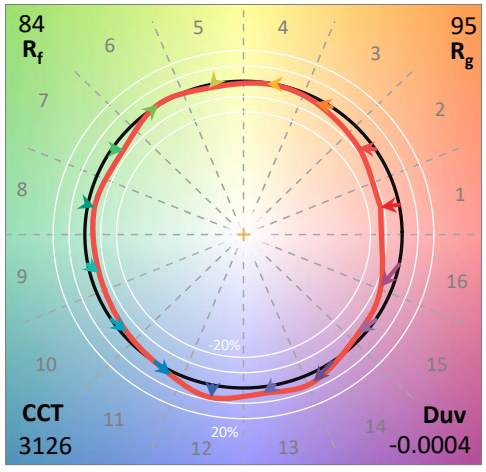
Test Information

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



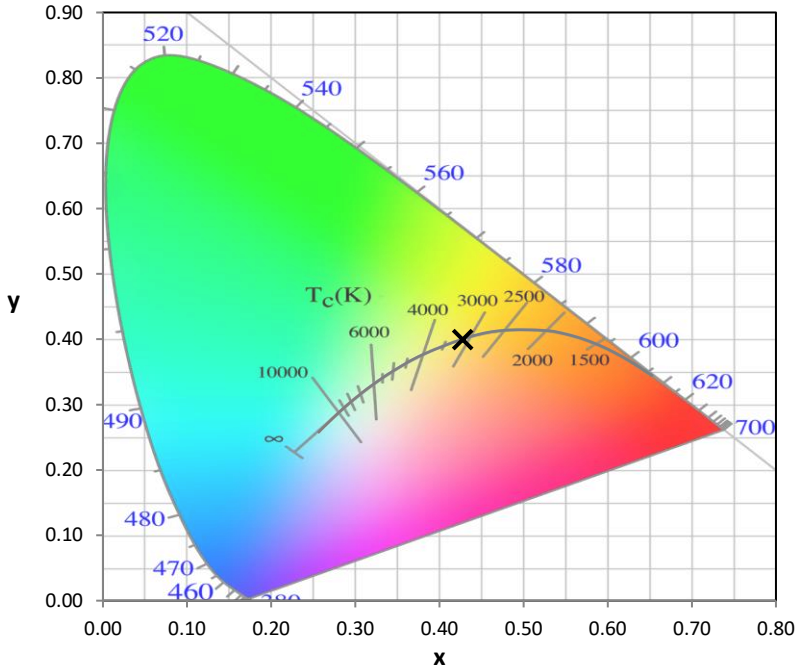
Test Conditions

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

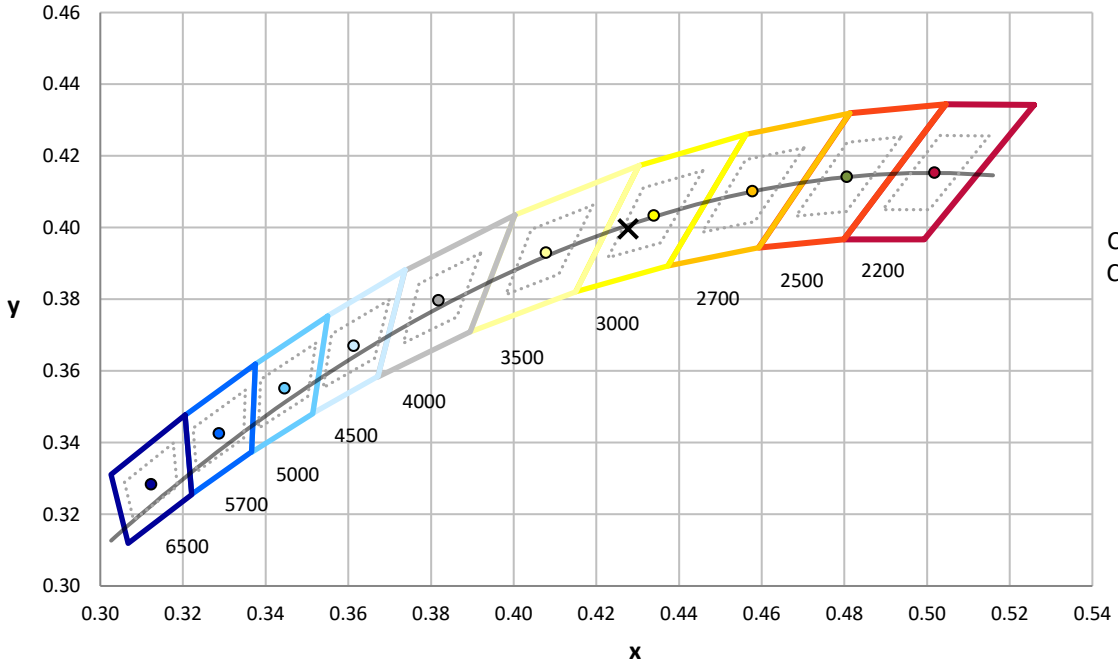
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

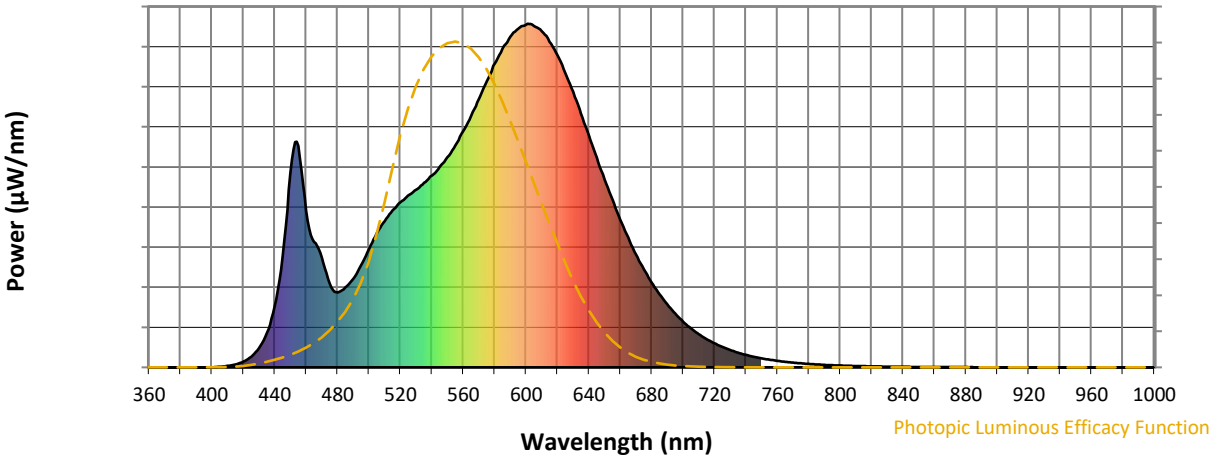


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

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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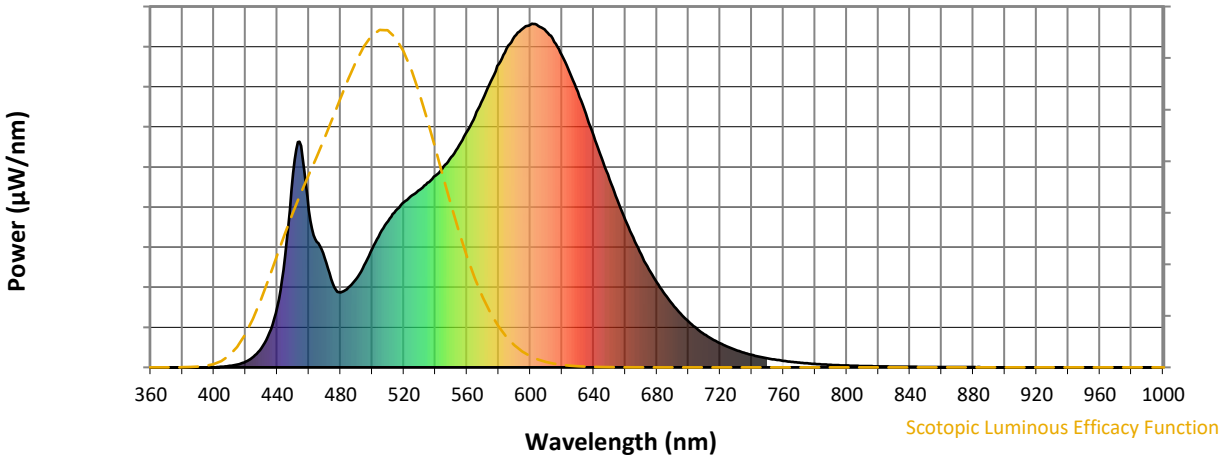
Scotopic Flux vs. Wavelength



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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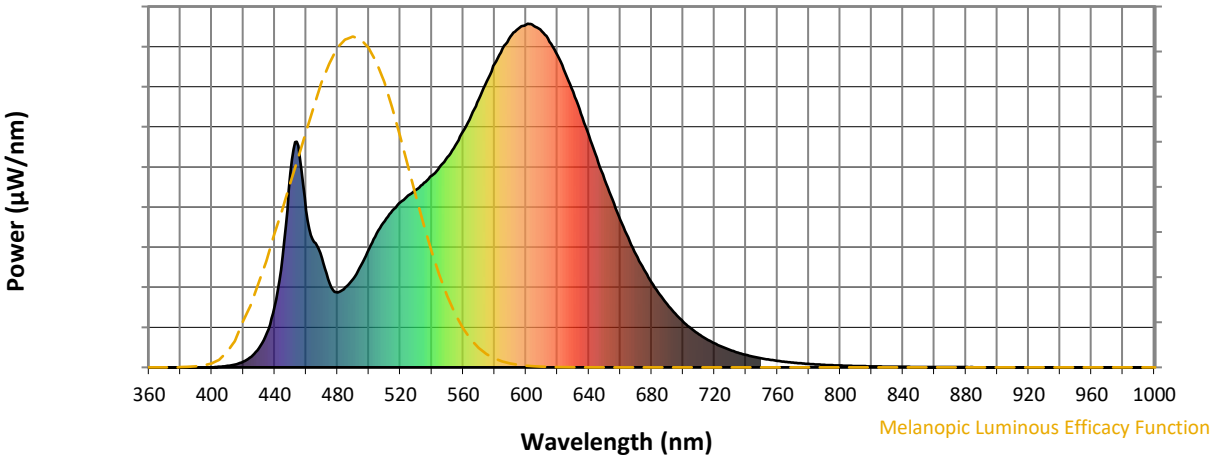
Melanopic Flux vs. Wavelength



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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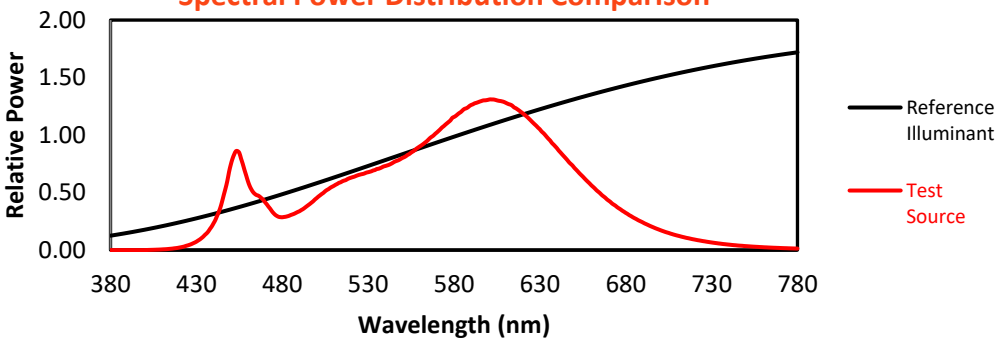
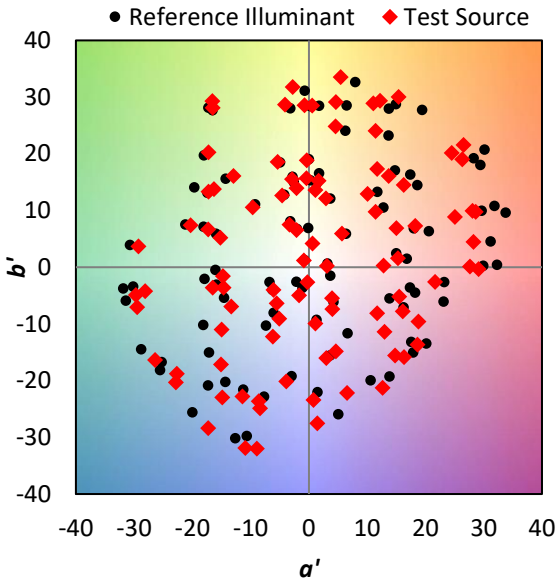
Summary

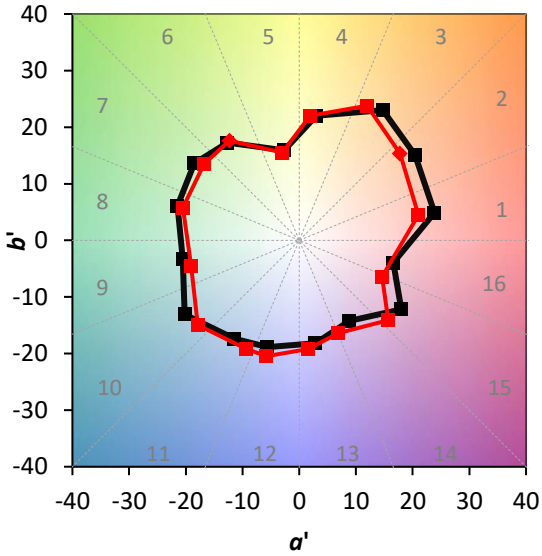
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

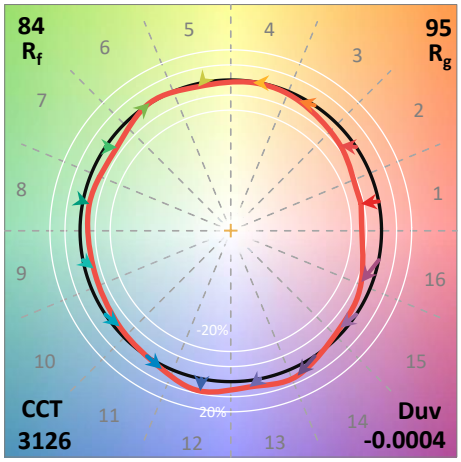
Spectral Power Distribution Comparison

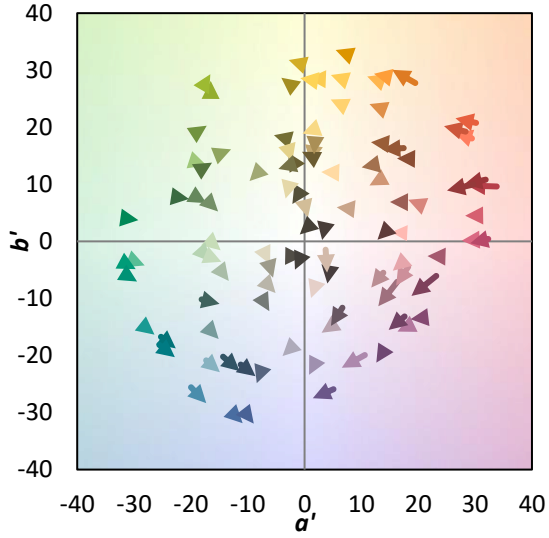


Color Vector Graphics









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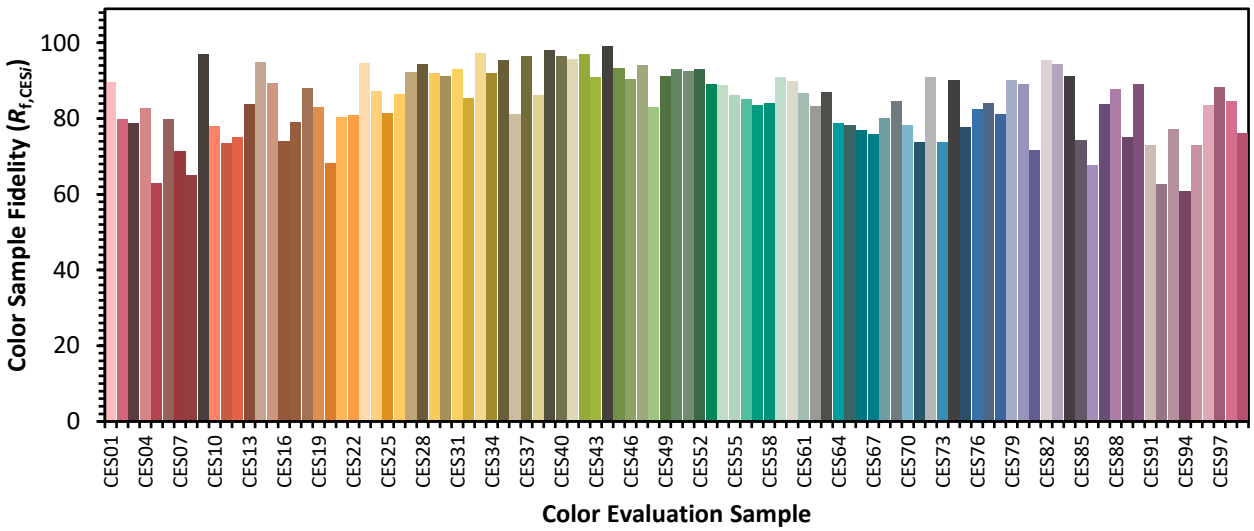
Individual Sample Fidelity Index ($R_{f,i}$)

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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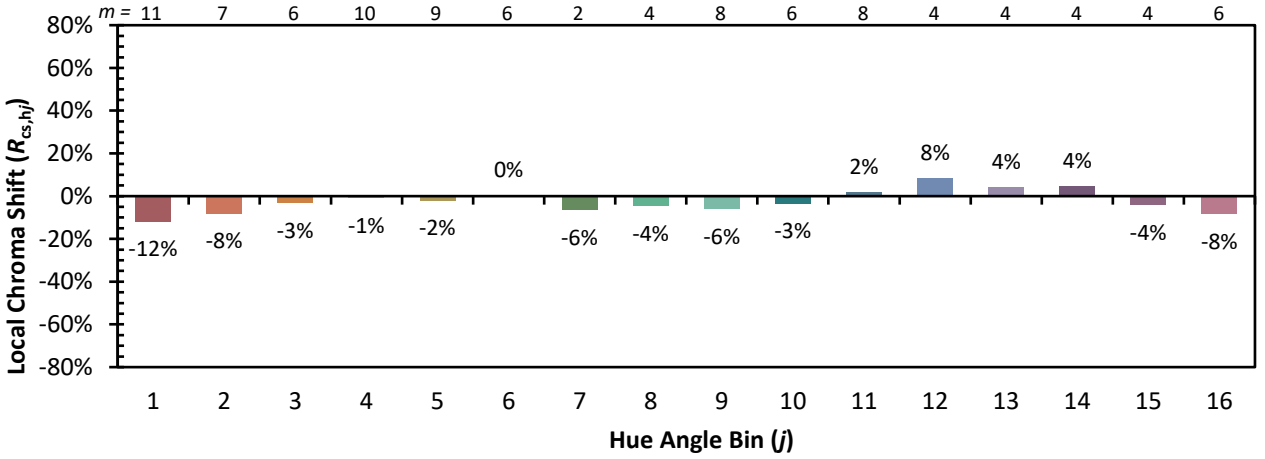
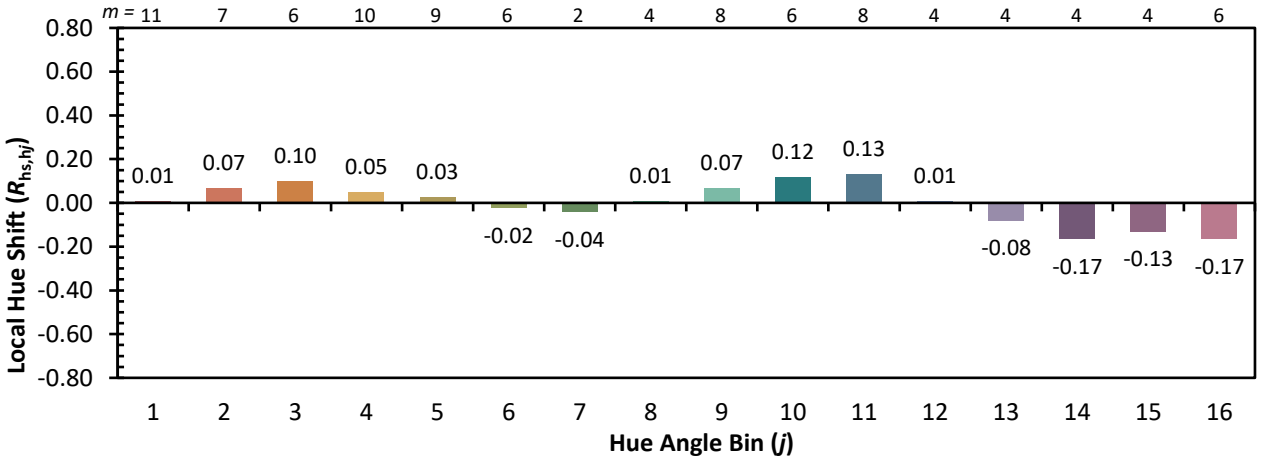
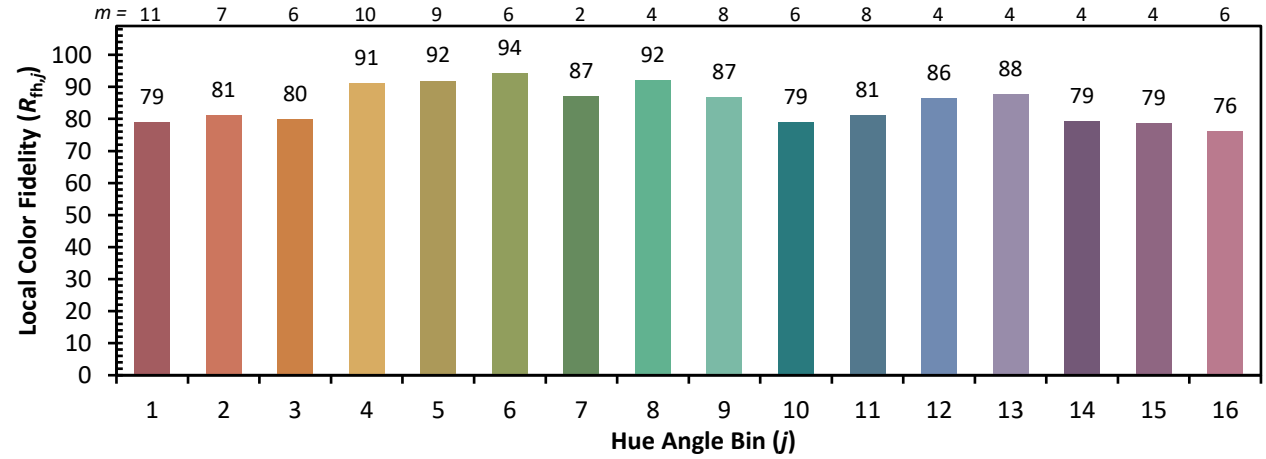
Color Rendition by Hue-Angle Bin







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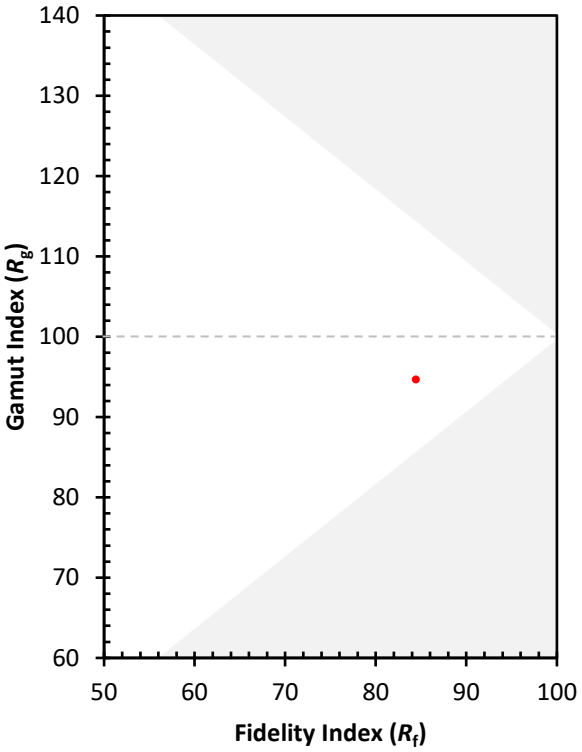
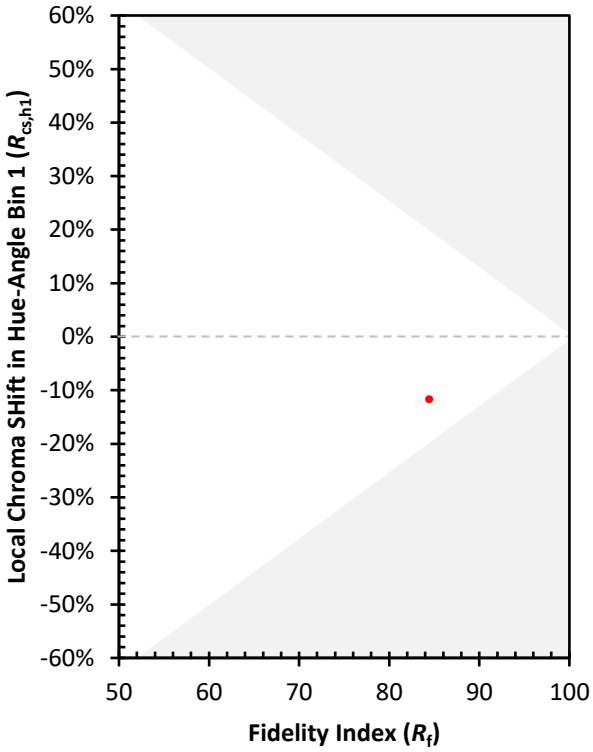
Measure Comparisons





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