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: P870240

Luminaire Tested: **MEM2-HSN-SA-100-830-U-T2R**

Issue Date: 09/05/2024

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:	P870240
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-100-830-U-T2R
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 100W 80CRI 3000K FIXTURE w/ TYPE II ROADWAY DISTRIBUTION OPTIC
Light Source:	(20) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12079.5 lumens
Efficiency:	N/A
Efficacy:	119.6 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G2

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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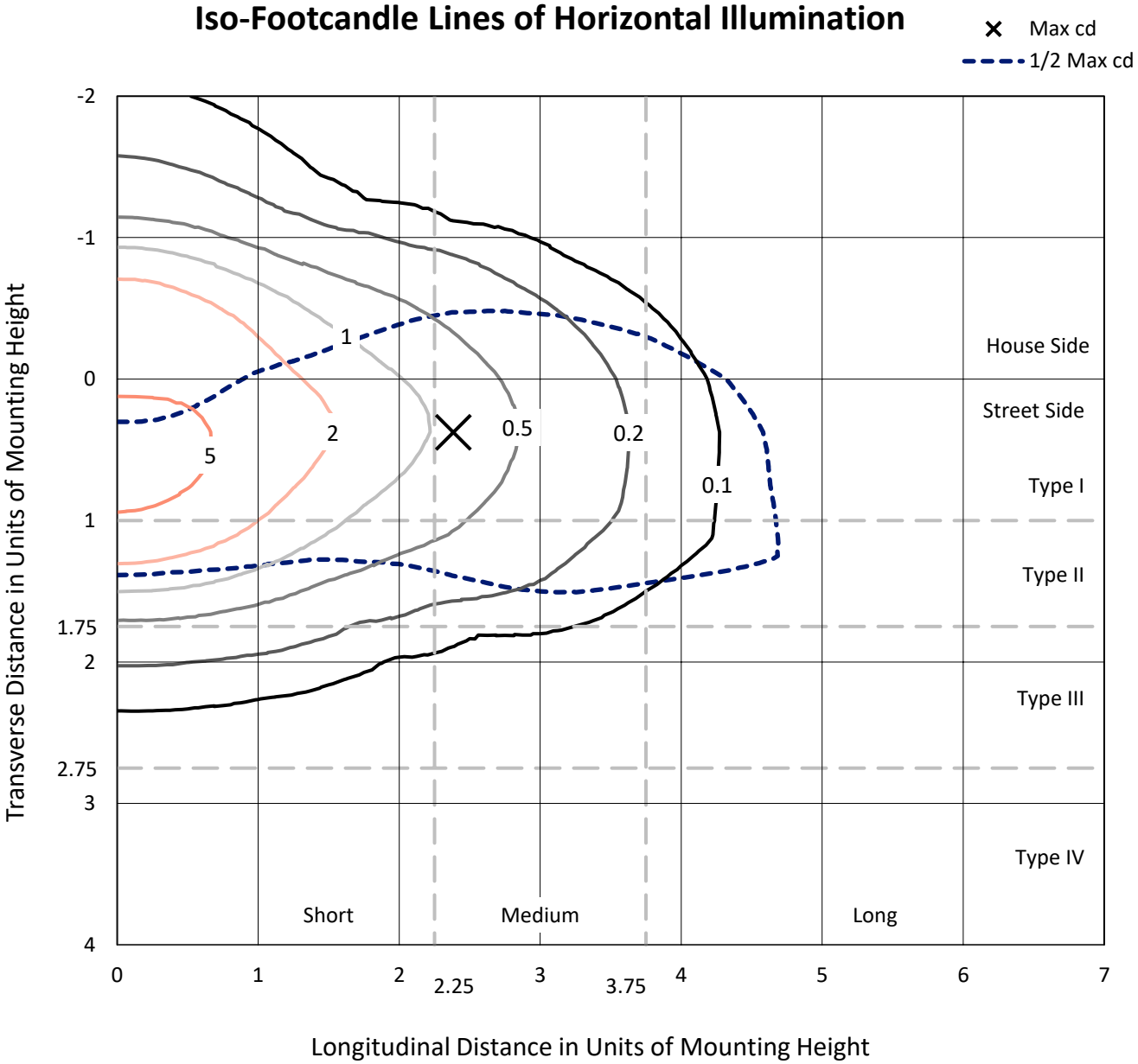
REPORT NUMBER: P870240
CATALOG NUMBER: MEM2-HSN-SA-100-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Medium - N/A

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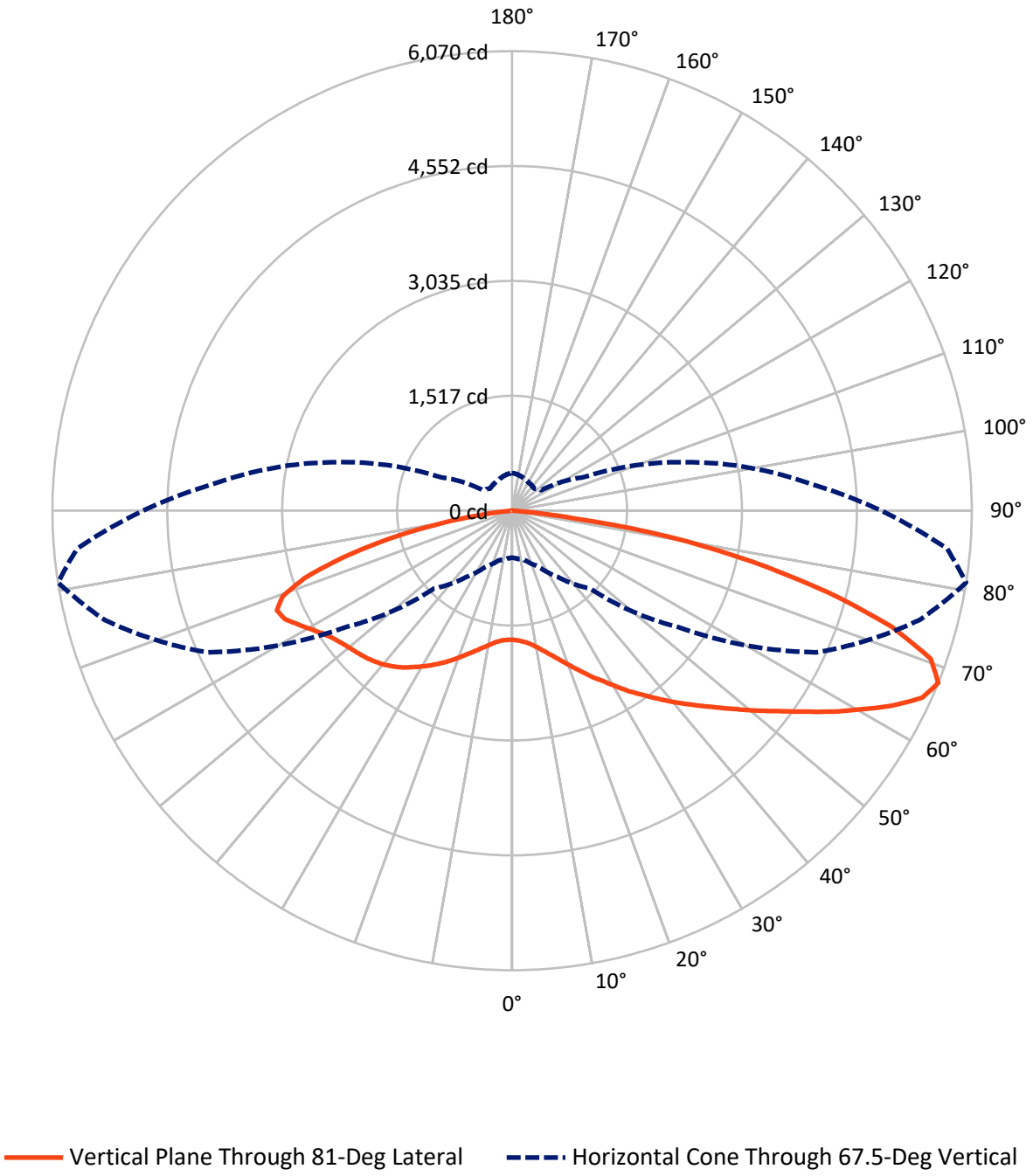
Luminous Intensity Polar Plot



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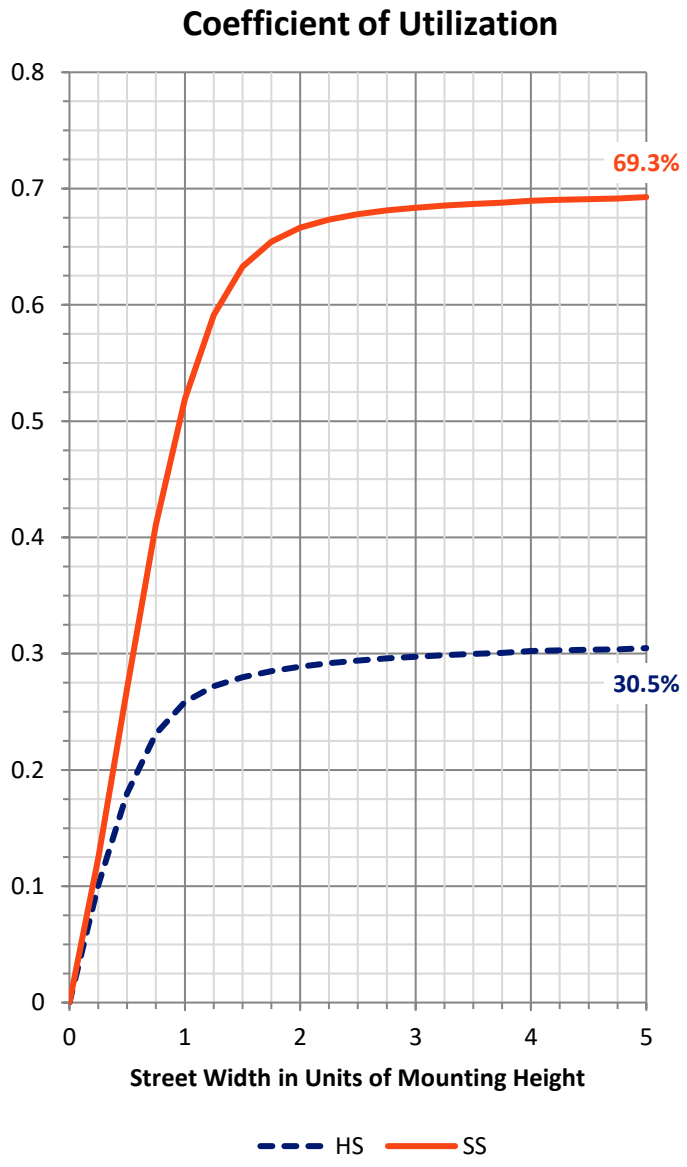
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3701.4	0.0	3701.4
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	8378.0	0.0	8378.0
	% Fixture	69.4	0.0	69.4
Total	Lumens	12079.5	0.0	12079.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.4
10°-20°	617.3	5.1
20°-30°	1229.5	10.2
30°-40°	1931.7	16.0
40°-50°	2395.6	19.8
50°-60°	2341.8	19.4
60°-70°	1969.3	16.3
70°-80°	1251.3	10.4
80°-90°	168.9	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°	12079.5	100.0
0°-180°	12079.5	100.0



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REPORT NUMBER: P870240
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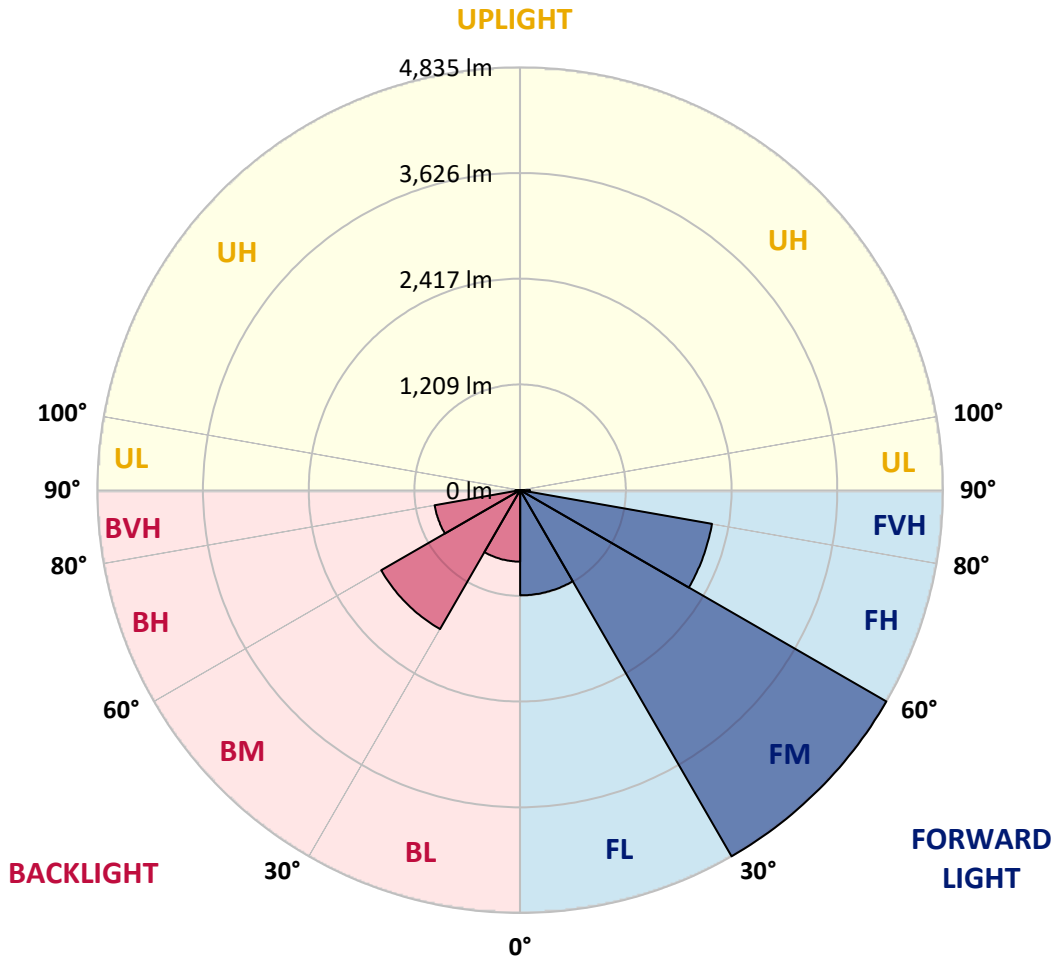
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1203.2	10.0			
FM	(30°-60°)	4834.6	40.0			
FH	(60°-80°)	2227.1	18.4			G2/5000
FVH	(80°-90°)	113.2	0.9			G2/225
BL	(0°-30°)	817.6	6.8	B2/1000		
BM	(30°-60°)	1834.5	15.2	B2/2500		
BH	(60°-80°)	993.6	8.2	B2/1000		G2/1000
BVH	(80°-90°)	55.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Medium



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REPORT NUMBER: P870240
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	*1705.4*	1705.4
2.5°	1765.3	1762.9	1762.9	1743.7	1743.7	1738.9	1741.3	1727.0	1719.8	*1717.4*	1715.0
5°	1892.2	1892.2	1877.9	1865.9	1841.9	1820.4	1801.2	1772.5	1750.9	*1741.3*	1734.2
7.5°	2083.9	2069.5	2064.7	2028.8	1978.5	1935.4	1897.0	1834.8	1794.0	*1779.7*	1770.1
10°	2318.6	2299.4	2263.5	2222.8	2158.1	2093.4	2016.8	1933.0	1865.9	*1837.1*	1825.2
12.5°	2560.5	2534.2	2483.9	2445.5	2361.7	2263.5	2155.7	2040.7	1947.3	*1906.6*	1885.1
15°	2826.4	2812.0	2752.1	2675.5	2577.3	2438.4	2304.2	2162.9	2043.1	*1985.7*	1949.7
17.5°	3113.8	3092.3	3027.6	2934.2	2795.2	2630.0	2474.3	2292.2	2153.3	*2079.1*	2038.3
20°	3396.4	3391.7	3295.8	3207.2	3044.3	2838.4	2637.2	2445.5	2270.7	*2184.5*	2131.8
22.5°	3712.6	3681.5	3597.6	3473.1	3279.1	3089.9	2852.7	2603.6	2397.6	*2297.0*	2237.2
25°	4040.8	4038.4	3935.4	3782.1	3554.5	3315.0	3058.7	2783.3	2548.5	*2426.4*	2347.3
27.5°	4448.0	4416.8	4285.1	4110.2	3846.8	3571.3	3274.3	2970.1	2692.2	*2546.1*	2450.3
30°	4804.8	4795.3	4646.8	4450.4	4155.7	3827.6	3506.6	3180.9	2862.3	*2689.9*	2584.5
32.5°	5094.7	5082.7	4955.7	4759.3	4443.2	4103.0	3734.2	3379.7	3032.4	*2845.5*	2706.6
35°	5336.6	5317.4	5185.7	4989.3	4716.2	4371.3	3978.5	3588.1	3219.2	*2991.7*	2859.9
37.5°	5432.4	5415.6	5307.8	5145.0	4893.5	4577.3	4198.9	3818.0	3406.0	*3156.9*	3008.4
40°	5396.5	5386.9	5310.2	5197.7	5006.0	4742.6	4409.6	4057.5	3616.8	*3331.8*	3154.5
42.5°	5226.4	5226.4	5178.5	5121.0	5025.2	4836.0	4596.5	4287.5	3820.4	*3506.6*	3293.5
45°	4986.9	4977.3	4960.5	4939.0	4924.6	4852.8	4718.6	4486.3	4045.6	*3698.2*	3461.1
47.5°	4668.3	4675.5	4663.5	4673.1	4733.0	4778.5	4771.3	4670.7	4275.5	*3909.0*	3626.4
50°	4167.7	4201.2	4239.6	4352.1	4474.3	4601.3	4718.6	4802.5	4546.2	*4148.6*	3818.0
52.5°	3547.3	3561.7	3664.7	3930.6	4191.7	4359.3	4582.1	4862.3	4785.7	*4397.7*	4043.2
55°	2783.3	2809.6	2965.3	3341.4	3806.0	4127.0	4388.1	4836.0	5030.0	*4682.7*	4306.6
57.5°	1995.2	2012.0	2261.1	2649.1	3255.1	3794.1	4167.7	4730.6	5226.4	*5006.0*	4577.3
60°	1418.0	1449.1	1609.6	1988.0	2570.1	3334.2	3966.5	4577.3	5408.4	*5322.2*	4931.8
62.5°	1046.7	1063.5	1176.1	1451.5	1930.6	2706.6	3705.4	4464.7	5528.2	*5662.3*	5286.3
65°	788.0	795.2	871.9	1061.1	1444.3	1995.2	3293.5	4443.2	5595.3	*5952.2*	5600.1
67.5°	*620.4*	*632.3*	*680.2*	*809.6*	*1075.5*	*1451.5*	*2682.7*	*4428.8*	*5571.3*	*6069.5*	*5765.3*
70°	522.2	524.6	560.5	632.3	804.8	1044.3	2004.8	4213.2	5437.2	*5863.5*	5612.0
72.5°	452.7	452.7	469.5	527.0	646.7	790.4	1365.3	3698.2	5097.1	*5238.4*	5080.3
75°	366.5	364.1	392.8	447.9	519.8	608.4	917.4	2800.0	4383.3	*4311.4*	4182.1
77.5°	318.6	316.2	340.1	388.0	428.7	486.2	627.6	1818.0	3449.1	*3233.6*	3152.1
80°	273.1	265.9	285.0	330.5	352.1	378.4	433.5	1058.7	2253.9	*2119.8*	2021.6
82.5°	206.0	189.2	184.4	222.8	237.1	220.4	220.4	371.3	819.2	*826.4*	764.1
85°	16.8	19.2	24.0	28.7	40.7	45.5	47.9	79.0	122.2	*117.4*	119.8
87.5°	2.4	2.4	2.4	4.8	4.8	7.2	7.2	7.2	9.6	*9.6*	9.6
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: P870240
CATALOG NUMBER: MEM2-HSN-SA-100-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4	1705.4
2.5°	1712.6	1707.8	1703.0	1703.0	1703.0	1698.2	1695.8	1695.8	1693.4	1686.2	1683.9
5°	1729.4	1722.2	1715.0	1715.0	1715.0	1712.6	1710.2	1712.6	1710.2	1703.0	1700.6
7.5°	1762.9	1753.3	1743.7	1743.7	1748.5	1746.1	1746.1	1748.5	1746.1	1738.9	1736.5
10°	1810.8	1796.4	1791.6	1791.6	1796.4	1794.0	1791.6	1791.6	1789.2	1777.3	1782.1
12.5°	1863.5	1849.1	1844.3	1846.7	1844.3	1839.5	1841.9	1834.8	1832.4	1813.2	1810.8
15°	1930.6	1913.8	1904.2	1906.6	1899.4	1889.8	1880.3	1875.5	1865.9	1849.1	1844.3
17.5°	2007.2	1980.9	1968.9	1968.9	1954.5	1935.4	1921.0	1906.6	1892.2	1873.1	1868.3
20°	2081.5	2057.5	2038.3	2033.6	2004.8	1973.7	1947.3	1923.4	1906.6	1885.1	1880.3
22.5°	2174.9	2141.3	2115.0	2093.4	2050.3	2000.0	1959.3	1925.8	1901.8	1877.9	1870.7
25°	2273.1	2225.2	2182.1	2141.3	2081.5	2009.6	1952.1	1904.2	1873.1	1846.7	1841.9
27.5°	2371.3	2309.0	2246.7	2182.1	2091.0	1997.6	1916.2	1858.7	1818.0	1784.5	1779.7
30°	2476.7	2400.0	2301.8	2208.4	2088.6	1966.5	1863.5	1782.1	1734.2	1695.8	1691.0
32.5°	2584.5	2488.7	2354.5	2227.6	2076.7	1921.0	1786.8	1700.6	1640.7	1597.6	1585.6
35°	2704.2	2586.9	2402.4	2234.8	2043.1	1853.9	1705.4	1597.6	1528.2	1485.0	1475.5
37.5°	2826.4	2677.9	2433.6	2230.0	1995.2	1774.9	1600.0	1489.8	1408.4	1348.5	1338.9
40°	2950.9	2761.7	2452.7	2206.0	1928.2	1676.7	1501.8	1367.7	1250.3	1195.2	1168.9
42.5°	3065.9	2838.4	2462.3	2172.5	1853.9	1573.7	1372.5	1197.6	1087.4	1027.6	1039.5
45°	3185.7	2910.2	2464.7	2131.8	1755.7	1441.9	1209.6	1046.7	936.5	891.0	886.2
47.5°	3288.7	2970.1	2459.9	2074.3	1645.5	1291.0	1039.5	883.8	802.4	759.3	754.5
50°	3425.2	3037.2	2452.7	2007.2	1501.8	1118.6	881.4	754.5	680.2	646.7	644.3
52.5°	3561.7	3111.4	2447.9	1913.8	1350.9	955.7	737.7	637.1	586.8	570.1	565.3
55°	3741.4	3202.4	2450.3	1806.0	1178.5	788.0	625.2	555.7	529.3	522.2	522.2
57.5°	3947.4	3319.8	2464.7	1686.2	998.8	651.5	543.7	512.6	510.2	515.0	517.4
60°	4196.5	3475.5	2493.4	1561.7	833.5	550.9	495.8	493.4	500.6	517.4	522.2
62.5°	4476.7	3645.6	2529.4	1398.8	675.5	483.8	469.5	479.0	488.6	507.8	510.2
65°	4723.4	3837.2	2550.9	1243.1	565.3	445.5	452.7	457.5	481.4	507.8	507.8
67.5°	*4871.9*	*3976.1*	*2469.5*	*1046.7*	*471.9*	*412.0*	*426.4*	*440.7*	*467.1*	*491.0*	*495.8*
70°	4821.6	3930.6	2191.6	812.0	400.0	380.8	397.6	419.2	445.5	474.3	488.6
72.5°	4471.9	3607.2	1779.7	591.6	347.3	352.1	373.7	402.4	426.4	457.5	476.7
75°	3739.0	3010.8	1283.8	426.4	304.2	323.4	356.9	380.8	397.6	404.8	407.2
77.5°	2838.4	2213.2	874.3	318.6	263.5	289.8	325.8	352.1	356.9	361.7	366.5
80°	1853.9	1408.4	493.4	222.8	201.2	237.1	265.9	294.6	285.0	299.4	304.2
82.5°	783.2	615.6	225.2	110.2	93.4	100.6	107.8	95.8	88.6	88.6	76.6
85°	103.0	79.0	33.5	14.4	12.0	7.2	7.2	7.2	4.8	4.8	4.8
87.5°	9.6	9.6	7.2	7.2	4.8	4.8	2.4	4.8	2.4	2.4	2.4
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

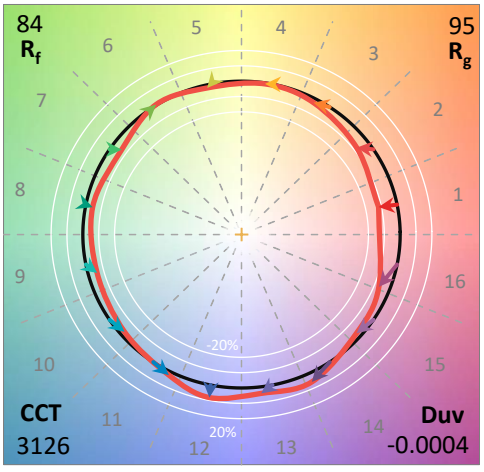
Test Information

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

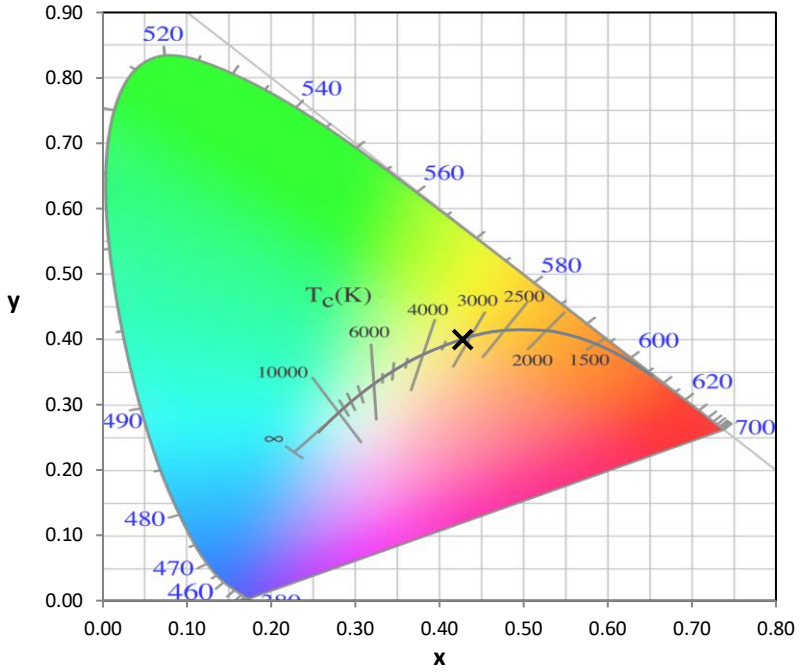
Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-7

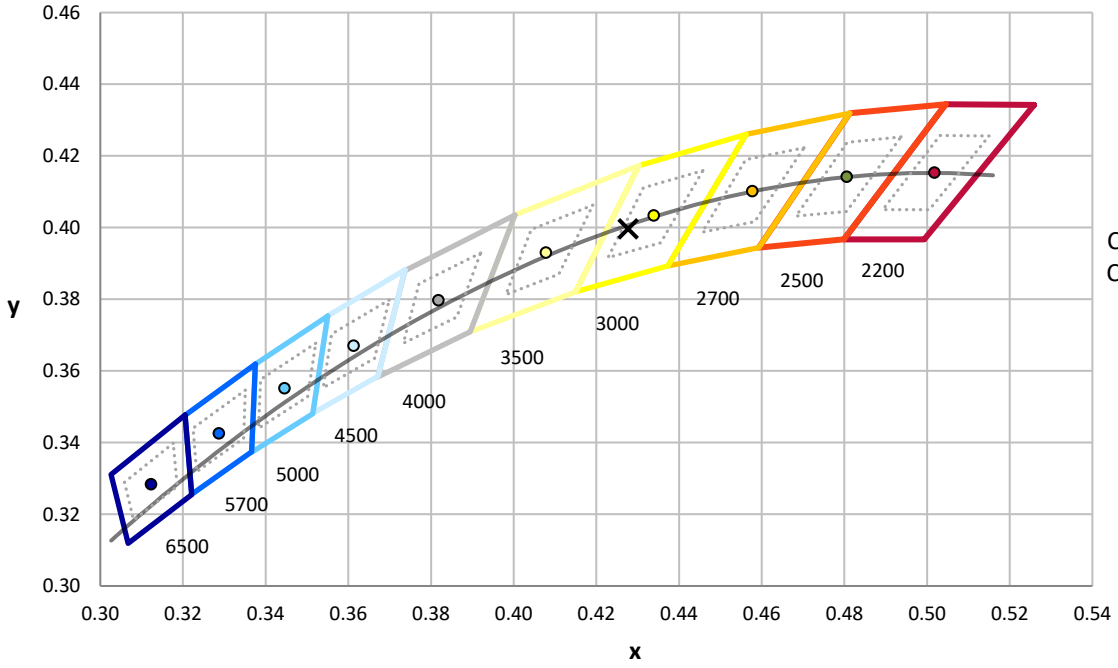
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

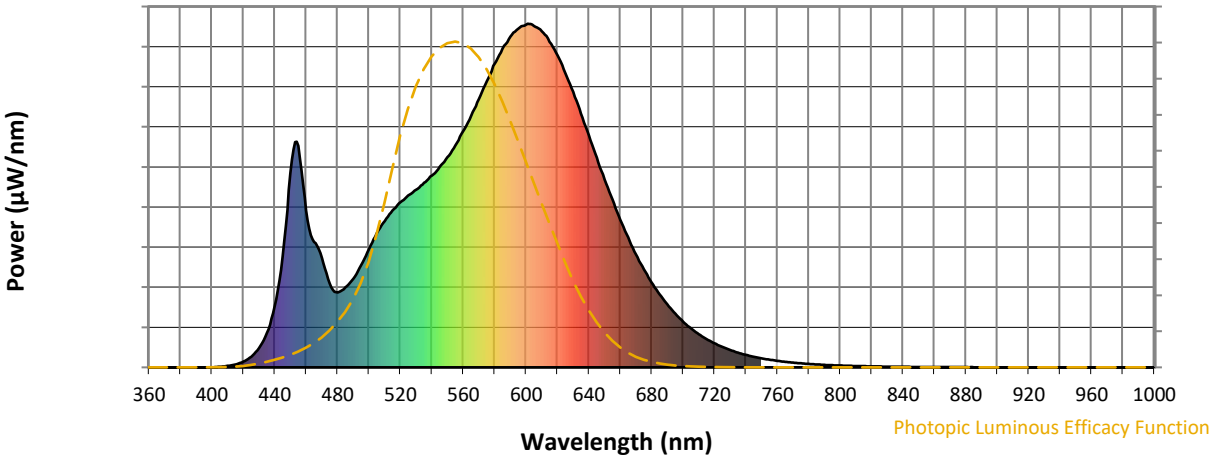


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

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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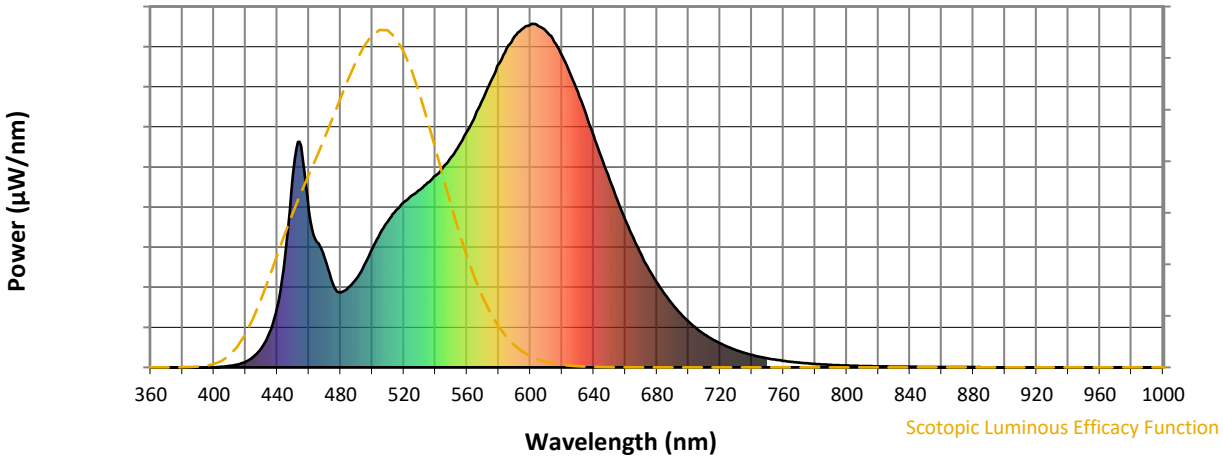
Scotopic Flux vs. Wavelength



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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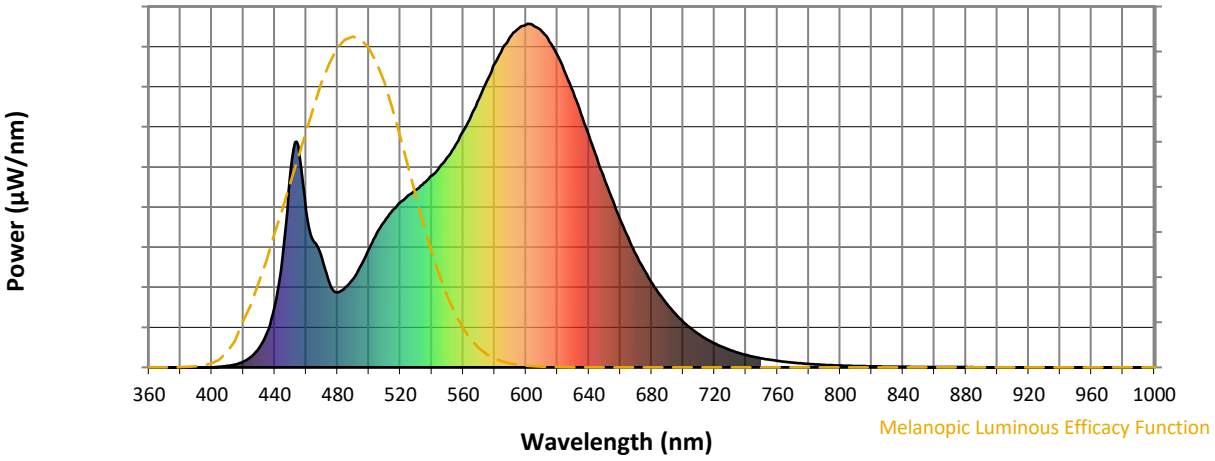
Melanopic Flux vs. Wavelength



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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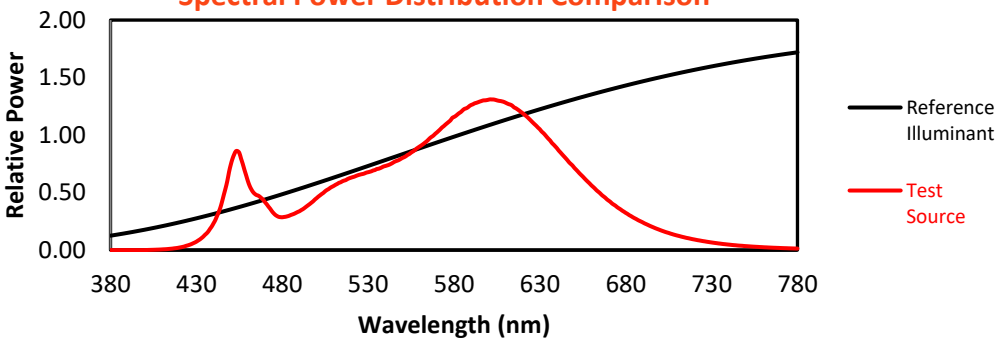
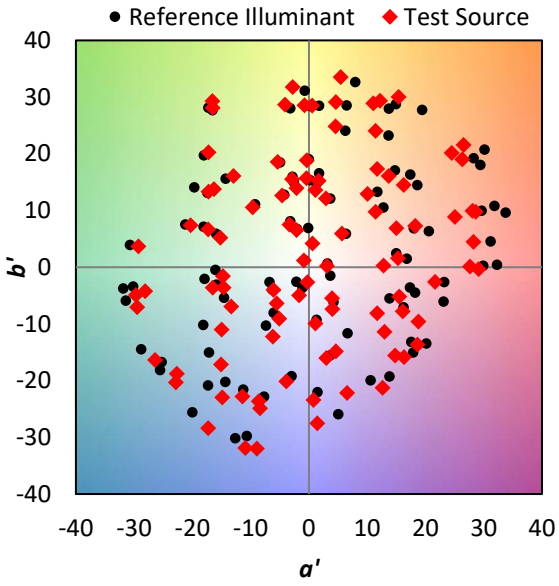
Summary

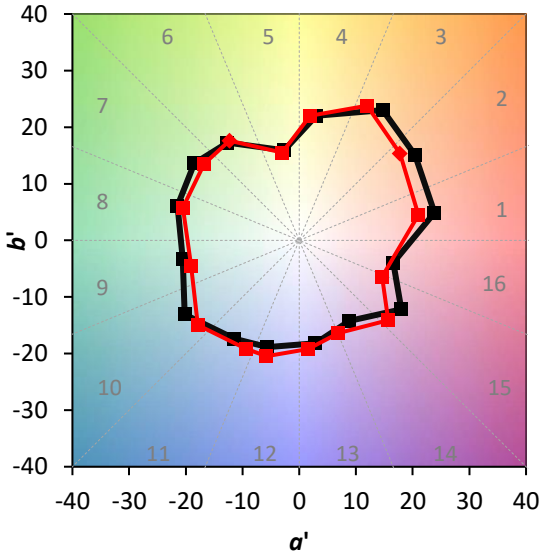
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

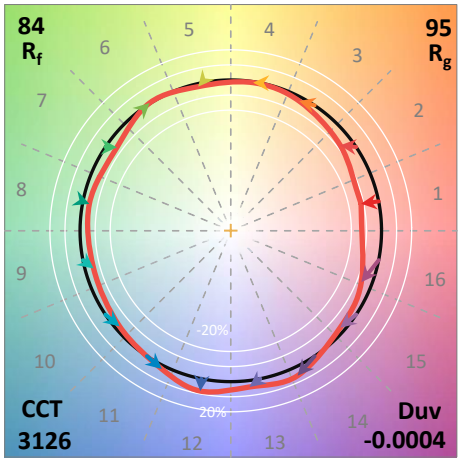
Spectral Power Distribution Comparison

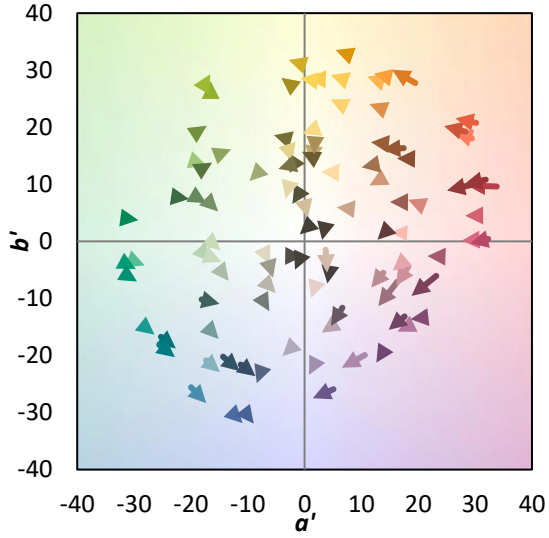


Color Vector Graphics









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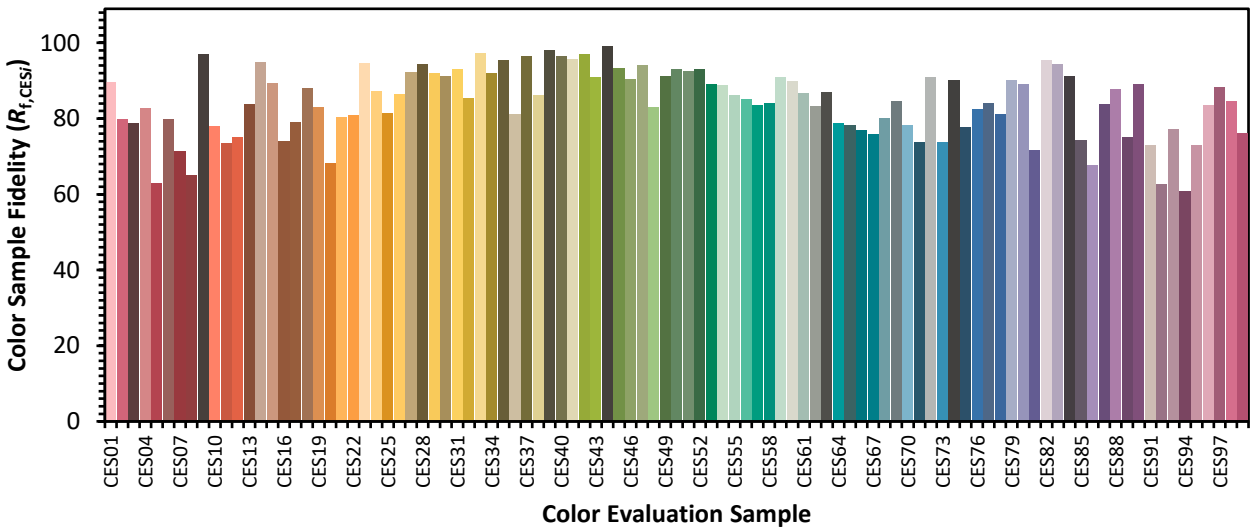
Individual Sample Fidelity Index ($R_{f,i}$)

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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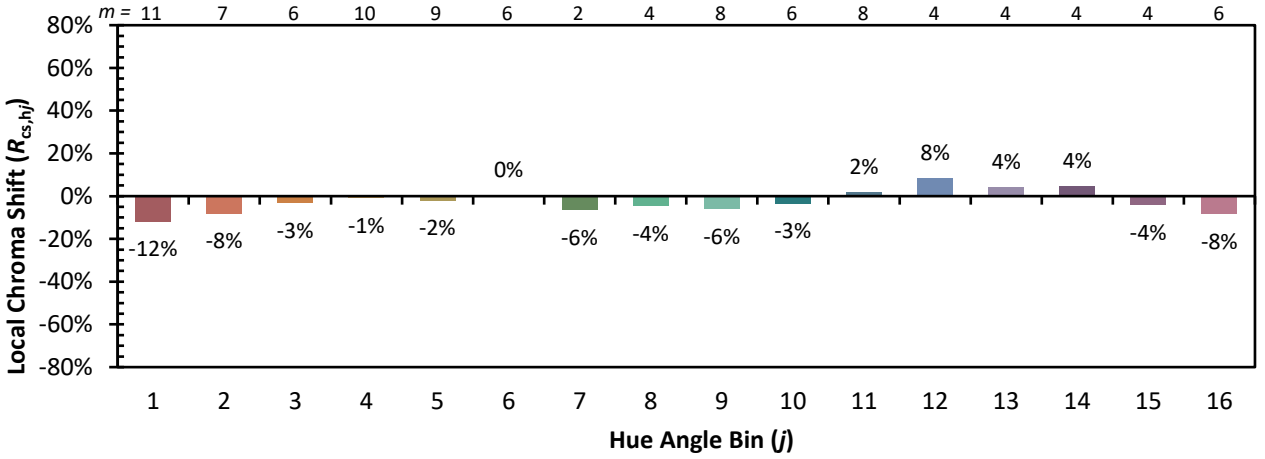
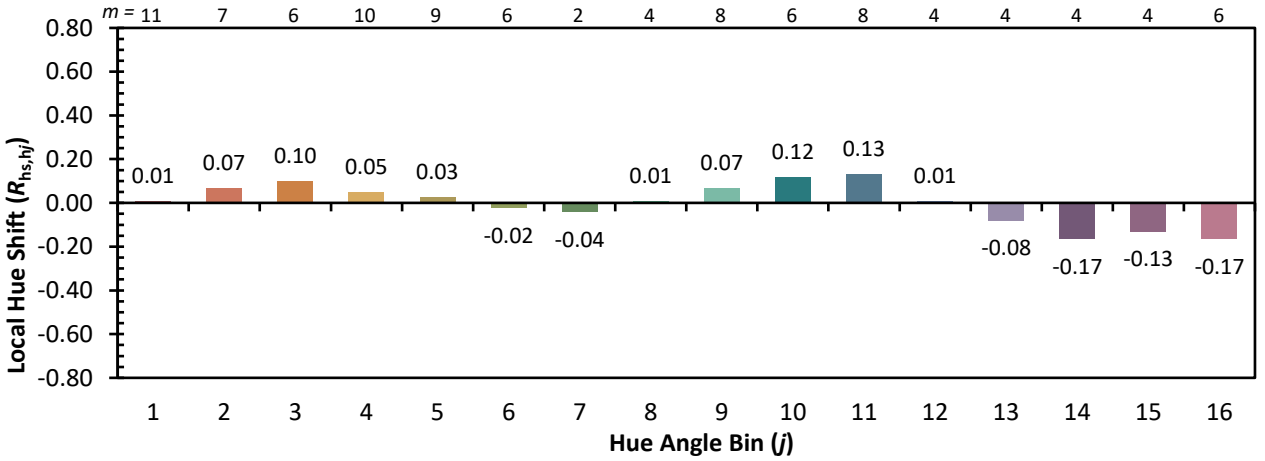
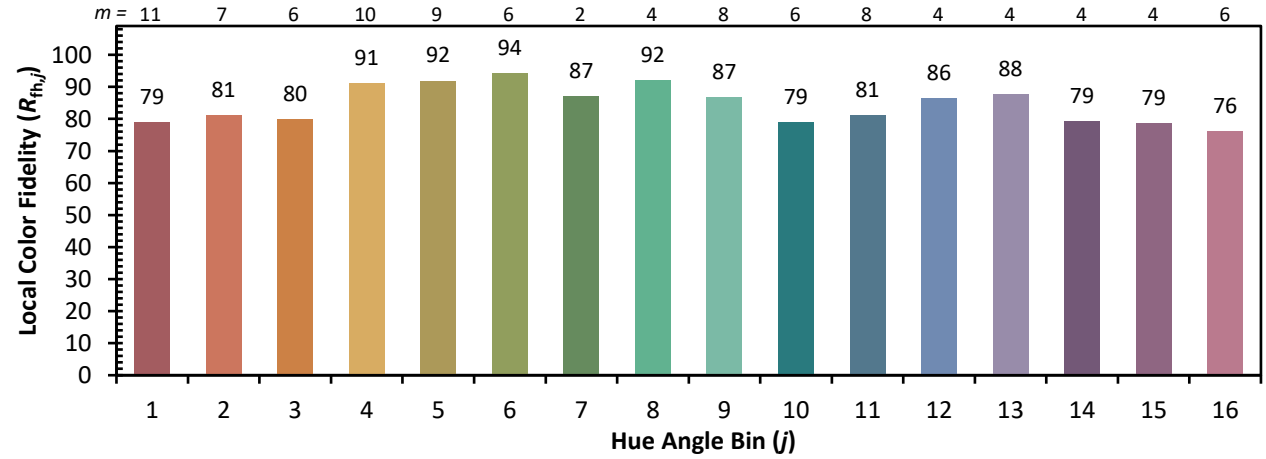
Color Rendition by Hue-Angle Bin







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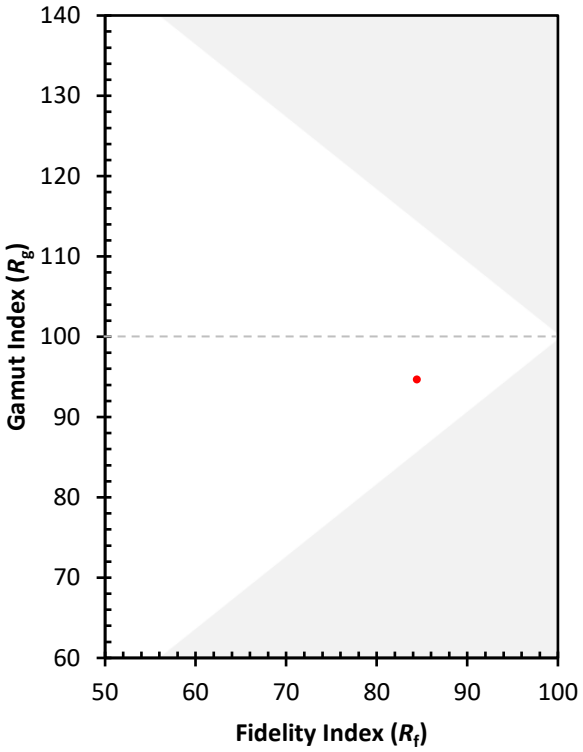
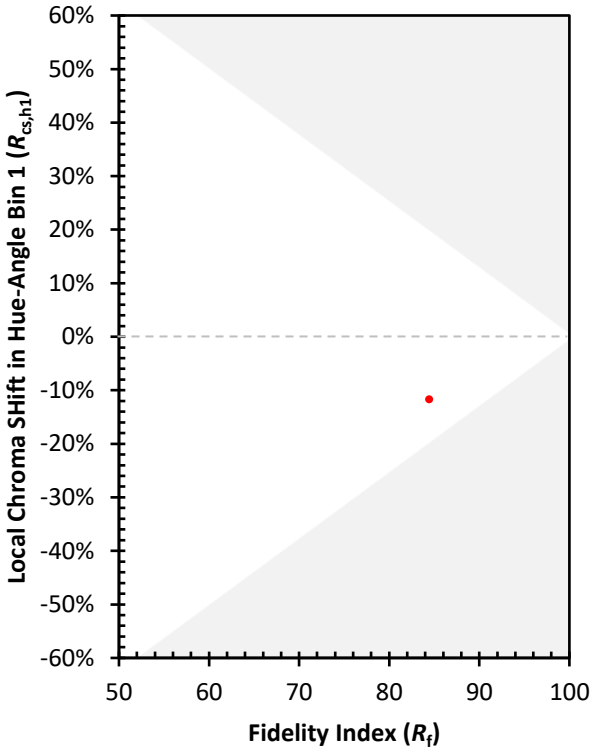
Measure Comparisons





(END OF REPORT)