

Signify Classified - Internal
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: P879768

Luminaire Tested: **EMM2-HSN-VA7-750-U-WT4**

Issue Date: 10/01/2024



Test Information

Test Method: LM-79-08
Report Number: P879768
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/01/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM2-HSN-VA7-750-U-WT4
Description: EPIC MODERN SHORT HOUSING 7W 70CRI 5000K WAVESTREAM FIXTURE w/
DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source: (1) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

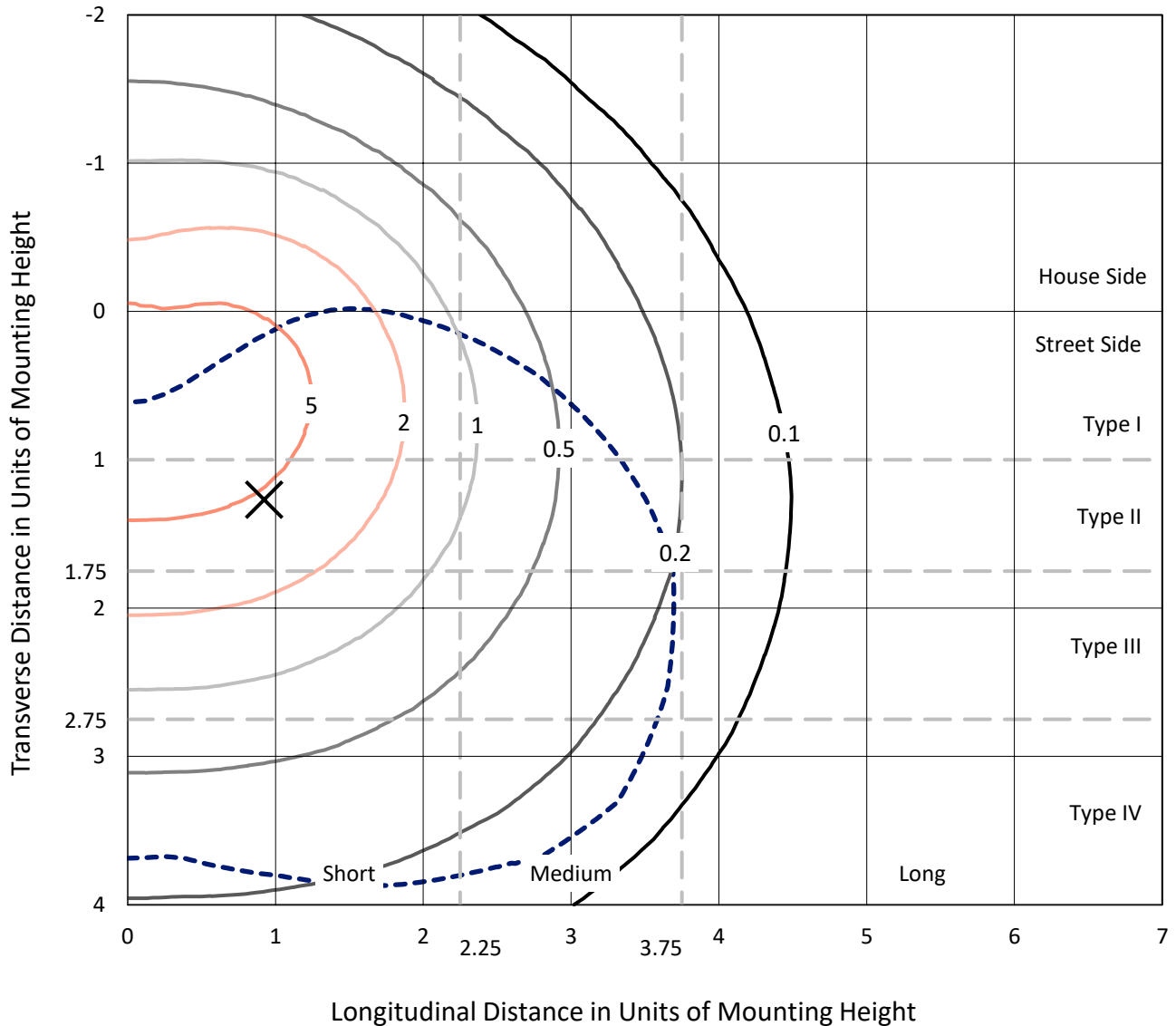
Lumens per Lamp: N/A
Luminaire Lumens: 14170 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 130
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.1%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P879768
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Iso-Footcandle Lines of Horizontal Illumination

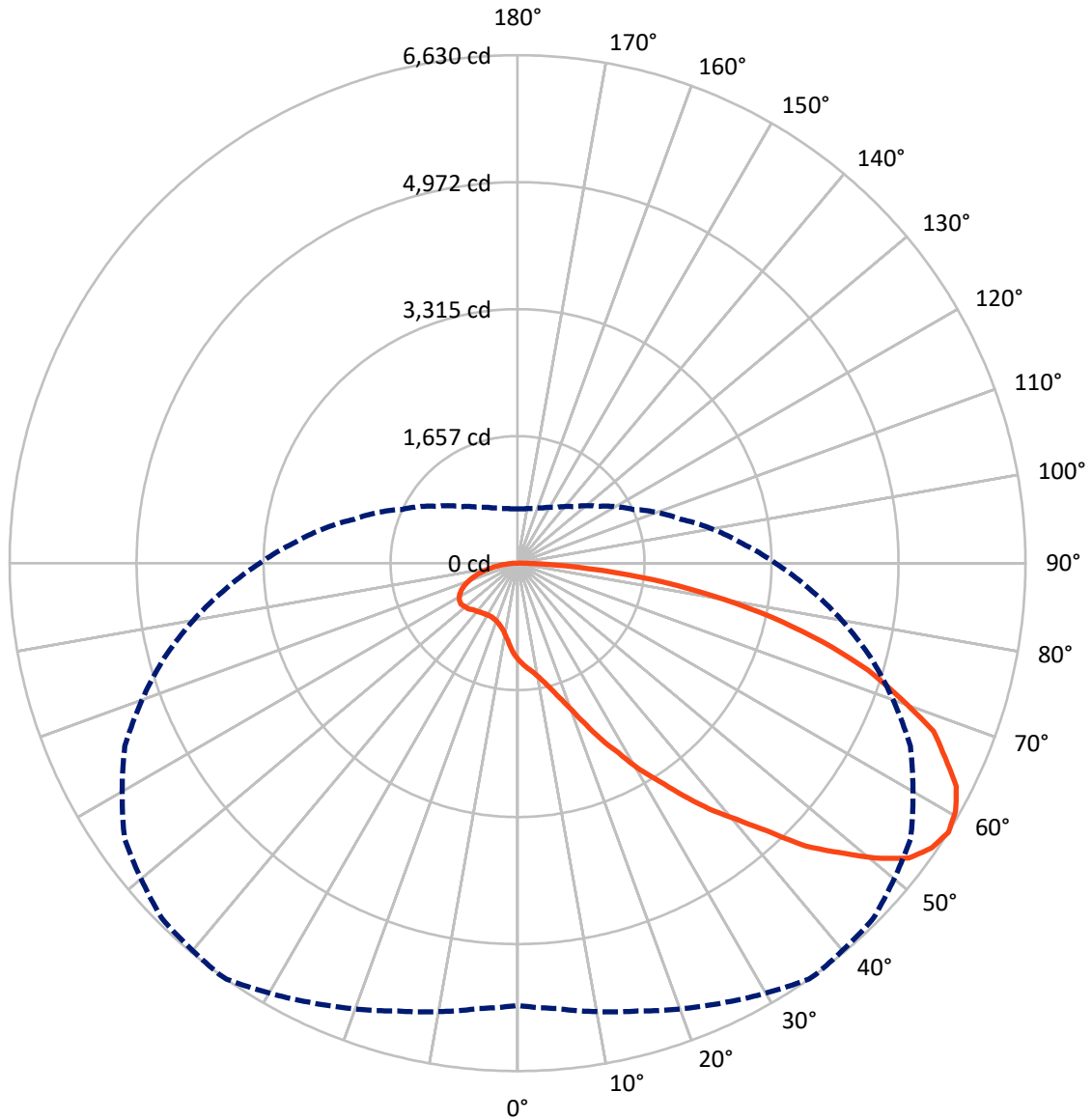
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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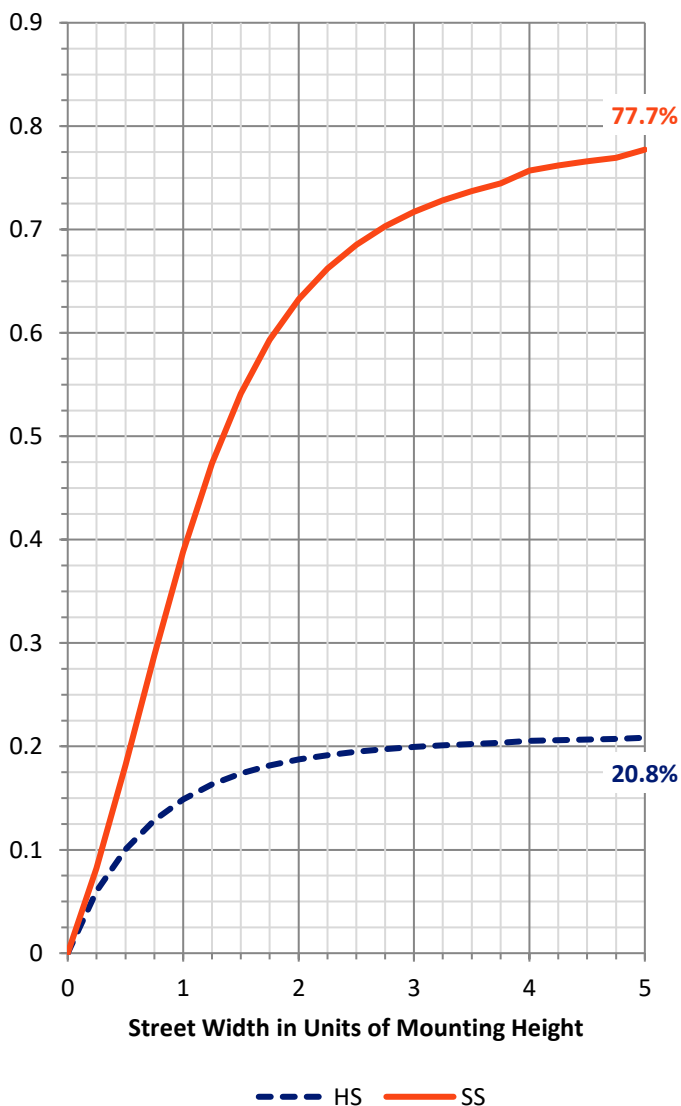
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2995.5	0.0	2995.5
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	11174.5	0.0	11174.5
	% Fixture	78.9	0.0	78.9
Total	Lumens	14170.0	0.0	14170.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	0.8
10°-20°	372.5	2.6
20°-30°	772.7	5.5
30°-40°	1405.5	9.9
40°-50°	2291.5	16.2
50°-60°	3145.3	22.2
60°-70°	3202.4	22.6
70°-80°	2253.0	15.9
80°-90°	609.2	4.3
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°	14170.0	100.0
0°-180°	14170.0	100.0



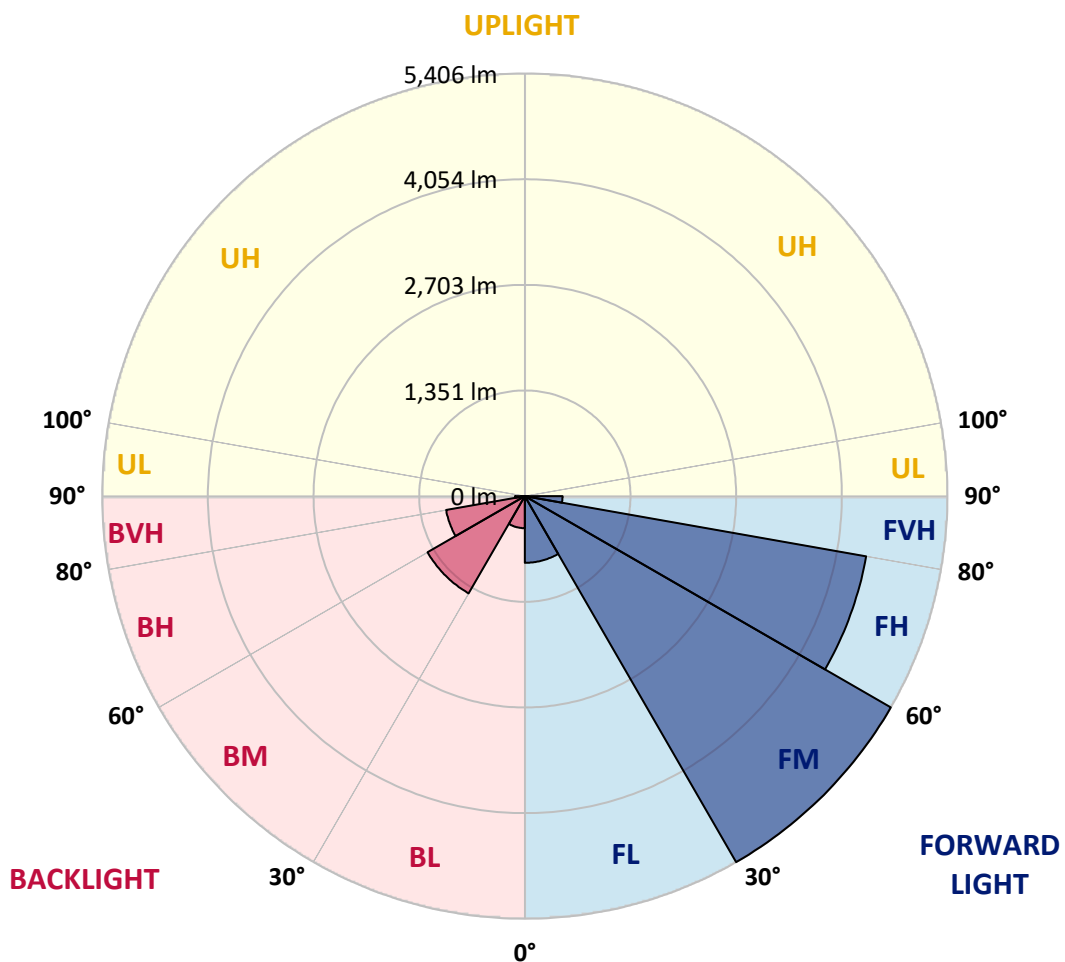
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 CATALOG NUMBER: EMM2-HSN-VA7-750-U-WT4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.1	6.0			
FM (30°-60°)	5405.9	38.2			
FH (60°-80°)	4433.2	31.3			G2/5000
FVH (80°-90°)	482.3	3.4			G3/500
BL (0°-30°)	410.0	2.9	B1/500		
BM (30°-60°)	1436.4	10.1	B2/2500		
BH (60°-80°)	1022.3	7.2	B3/2500		G3/2500
BVH (80°-90°)	126.8	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P879768

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7
2.5°	1329.2	1338.4	1330.2	1330.2	1317.9	1322.0	1308.8	1298.5	1286.3	1273.0	1259.7
5°	1398.7	1404.8	1401.7	1387.4	1372.1	1377.2	1355.7	1332.3	1307.7	1282.2	1256.6
7.5°	1475.3	1483.5	1474.3	1453.8	1433.4	1433.4	1406.8	1370.1	1333.3	1292.4	1250.5
10°	1561.1	1571.3	1560.1	1536.6	1502.9	1511.0	1469.2	1428.3	1373.1	1317.9	1260.7
12.5°	1678.6	1687.8	1668.4	1653.1	1612.2	1606.1	1562.1	1509.0	1442.6	1362.9	1287.3
15°	1803.2	1807.3	1812.4	1781.8	1732.7	1731.7	1680.6	1610.1	1527.4	1433.4	1337.4
17.5°	1965.7	1967.7	1949.3	1932.0	1879.9	1876.8	1827.8	1747.0	1634.7	1520.2	1402.7
20°	2128.1	2144.5	2139.4	2115.9	2078.1	2061.7	2007.6	1907.4	1788.9	1641.8	1488.6
22.5°	2346.8	2360.0	2363.1	2336.5	2306.9	2293.6	2234.4	2111.8	1955.5	1781.8	1608.1
25°	2593.0	2594.0	2606.3	2597.1	2545.0	2554.2	2474.5	2366.2	2183.3	1964.7	1745.0
27.5°	2860.7	2866.8	2878.0	2863.7	2815.7	2803.4	2718.7	2597.1	2403.0	2160.8	1887.0
30°	3102.8	3133.4	3127.3	3142.6	3129.4	3113.0	3029.2	2871.9	2611.4	2341.7	2062.7
32.5°	3415.4	3398.1	3409.3	3441.0	3388.9	3389.9	3304.1	3141.6	2887.2	2568.5	2210.9
35°	3655.5	3699.4	3722.9	3738.3	3714.8	3725.0	3656.5	3461.4	3155.9	2792.2	2385.6
37.5°	3936.5	3982.4	4003.9	4064.2	4090.7	4074.4	4004.9	3815.9	3446.1	3026.2	2585.8
40°	4262.4	4293.0	4343.1	4396.2	4408.5	4391.1	4320.6	4103.0	3753.6	3287.7	2766.7
42.5°	4610.8	4569.9	4710.9	4739.5	4811.0	4776.3	4755.9	4460.6	4041.7	3554.4	2957.7
45°	4917.3	4938.7	5083.8	5227.9	5304.5	5266.7	5180.9	4942.8	4455.5	3818.0	3166.1
47.5°	5195.2	5292.2	5382.1	5595.7	5670.2	5644.7	5578.3	5285.1	4816.1	4130.6	3405.2
50°	5504.7	5528.2	5702.9	5905.2	6080.9	6052.3	5985.9	5695.8	5120.6	4415.6	3577.9
52.5°	5761.2	5694.8	5920.5	6209.7	6415.0	6394.6	6298.6	5990.0	5450.6	4604.6	3715.8
55°	5768.3	5848.0	6017.6	6345.6	6568.3	6561.1	6514.1	6181.1	5624.3	4745.6	3805.7
57.5°	5772.4	5836.8	6052.3	6333.3	6627.5	6629.6	6563.2	6263.8	5655.9	4773.2	3820.0
60°	5662.1	5686.6	5982.9	6287.3	6557.0	6569.3	6502.9	6241.4	5598.7	4727.2	3763.8
62.5°	5461.8	5504.7	5800.0	6094.2	6401.8	6427.3	6360.9	6115.7	5476.1	4626.1	3655.5
65°	5190.1	5200.3	5457.7	5857.2	6090.1	6134.1	6122.8	5857.2	5277.9	4438.1	3492.1
67.5°	4812.0	4805.9	5123.6	5454.7	5785.7	5856.2	5799.0	5607.9	4952.0	4166.3	3289.8
70°	4332.9	4417.7	4702.7	5047.0	5270.8	5309.6	5334.1	5124.7	4624.1	3898.7	3025.1
72.5°	3854.7	3877.2	4104.0	4506.6	4753.8	4783.4	4824.3	4607.7	4178.6	3458.3	2698.2
75°	3263.2	3256.0	3502.3	3821.0	4036.6	4118.3	4134.7	3964.1	3607.5	3010.8	2340.6
77.5°	2619.5	2648.2	2840.2	3111.0	3325.5	3385.8	3453.2	3262.2	2970.0	2501.0	1908.5
80°	1923.8	1921.8	2096.5	2351.9	2599.1	2592.0	2615.5	2573.6	2271.2	1942.2	1477.3
82.5°	1266.9	1240.3	1394.6	1563.1	1758.3	1776.7	1848.2	1805.3	1624.4	1353.7	1027.8
85°	521.0	515.9	655.9	758.1	916.4	937.9	1000.2	969.6	900.1	751.9	568.0
87.5°	12.3	12.3	12.3	51.1	149.2	211.5	213.5	271.8	278.9	239.1	175.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P879768

CATALOG NUMBER: EMM2-HSN-VA7-750-U-WT4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7	1258.7
2.5°	1253.6	1246.4	1231.1	1219.9	1209.7	1198.4	1192.3	1185.1	1182.1	1181.0	1172.9
5°	1242.3	1227.0	1199.4	1171.8	1147.3	1126.9	1106.5	1091.1	1076.8	1069.7	1066.6
7.5°	1228.0	1205.6	1163.7	1124.9	1083.0	1050.3	1017.6	994.1	984.9	976.7	969.6
10°	1230.1	1200.5	1140.2	1084.0	1033.9	990.0	949.1	917.5	898.0	879.7	882.7
12.5°	1247.5	1209.7	1136.1	1063.6	1001.2	944.0	891.9	854.1	825.5	806.1	804.1
15°	1283.2	1236.2	1145.3	1059.5	981.8	911.3	852.1	801.0	766.2	745.8	741.7
17.5°	1340.4	1284.2	1168.8	1069.7	974.7	892.9	823.5	766.2	722.3	699.8	694.7
20°	1417.0	1343.5	1210.7	1084.0	971.6	877.6	800.0	736.6	691.7	662.0	658.0
22.5°	1513.1	1424.2	1257.7	1105.4	977.7	871.5	784.6	715.2	663.1	638.5	634.5
25°	1634.7	1524.3	1321.0	1137.1	988.0	868.4	772.4	699.8	646.7	619.1	617.1
27.5°	1753.2	1626.5	1383.3	1173.9	1005.3	872.5	768.3	689.6	635.5	607.9	603.8
30°	1890.1	1739.9	1465.1	1220.9	1025.8	879.7	768.3	685.5	629.3	601.8	598.7
32.5°	2051.5	1854.3	1542.7	1271.0	1053.3	894.0	772.4	683.5	628.3	599.7	596.7
35°	2188.4	1988.2	1623.4	1321.0	1083.0	908.3	782.6	689.6	629.3	602.8	597.7
37.5°	2340.6	2112.8	1709.2	1366.0	1109.5	922.6	788.7	695.8	636.5	607.9	606.9
40°	2509.2	2248.7	1795.1	1424.2	1145.3	946.1	804.1	703.9	646.7	617.1	615.0
42.5°	2674.7	2394.8	1888.0	1489.6	1175.9	962.4	815.3	719.3	655.9	632.4	626.3
45°	2864.7	2542.9	1988.2	1536.6	1213.7	988.0	832.7	732.5	676.3	647.7	646.7
47.5°	3017.0	2673.7	2071.9	1595.8	1262.8	1018.6	860.2	751.9	697.8	666.1	668.2
50°	3183.5	2794.3	2127.1	1646.9	1279.1	1028.8	870.5	778.5	712.1	688.6	682.5
52.5°	3286.7	2888.2	2192.5	1659.2	1303.6	1051.3	886.8	787.7	730.5	704.9	696.8
55°	3368.4	2945.5	2216.0	1674.5	1311.8	1053.3	896.0	797.9	740.7	711.1	712.1
57.5°	3364.3	2943.4	2211.9	1659.2	1291.4	1041.1	887.8	795.9	735.6	709.0	709.0
60°	3315.3	2882.1	2157.8	1610.1	1256.6	1012.5	867.4	774.4	721.3	699.8	696.8
62.5°	3200.9	2778.9	2085.2	1548.8	1206.6	975.7	840.8	745.8	701.9	679.4	674.3
65°	3050.7	2647.1	1955.5	1467.1	1133.0	921.5	795.9	717.2	673.3	649.8	646.7
67.5°	2858.6	2461.2	1808.3	1354.7	1051.3	861.3	745.8	674.3	630.4	614.0	614.0
70°	2618.5	2241.5	1663.3	1230.1	956.3	781.6	682.5	618.1	583.4	564.0	564.0
72.5°	2330.4	2001.4	1473.2	1095.2	851.0	696.8	606.9	558.9	526.2	514.9	507.8
75°	2012.7	1714.4	1255.6	928.7	726.4	600.7	529.2	485.3	460.8	451.6	449.5
77.5°	1664.3	1406.8	1011.4	762.2	602.8	500.6	441.4	408.7	392.3	379.0	378.0
80°	1275.0	1072.7	775.4	594.6	464.9	384.1	348.4	325.9	314.7	310.6	306.5
82.5°	875.6	759.1	542.5	400.5	324.9	274.8	256.4	246.2	232.9	234.0	231.9
85°	491.4	416.8	291.2	232.9	193.1	171.6	164.5	158.4	160.4	156.3	158.4
87.5°	148.1	137.9	99.1	84.8	73.6	74.6	80.7	83.8	84.8	85.8	87.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-10

Test Date: 09/25/2024

Luminaire Tested: MEM2-HTN-VA-130-750-U-RW

Data in this report applies to families of products including MEM2-HTN-VA-130-750-U-RW

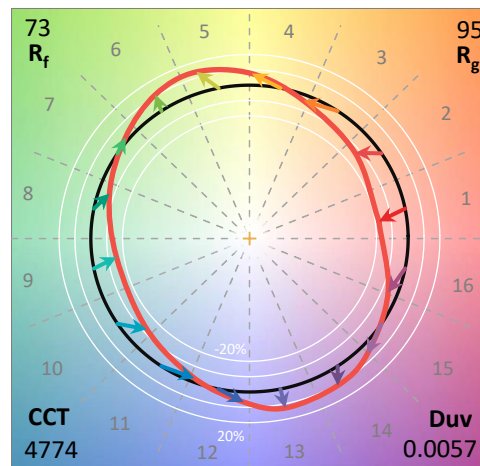
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-10
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/27/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-VA-130-750-U-RW**
 Description: EPIC MODERN VISUAL COMFORT 130W WAVESTREAM RECTANGULAR WIDE

Spectral Parameters

CCT (K): 4774
 CIE u': 0.2100
 CIE v': 0.4945
 Duv: 0.0057
 CIE x: 0.3535
 CIE y: 0.3699
 CIE z: 0.2766
 Peak Wavelength (nm): 444
 Dominant Wavelength (nm): 571
 Purity: 17.0787
 R_f: 73.1
 R_g: 94.9

CRI (Ra):	70.8		
R1:	67.0	R9:	-40.0
R2:	75.4	R10:	43.4
R3:	83.5	R11:	69.3
R4:	71.8	R12:	45.5
R5:	68.4	R13:	67.9
R6:	67.5	R14:	90.8
R7:	80.0	R15:	58.2
R8:	53.1		



Test Conditions

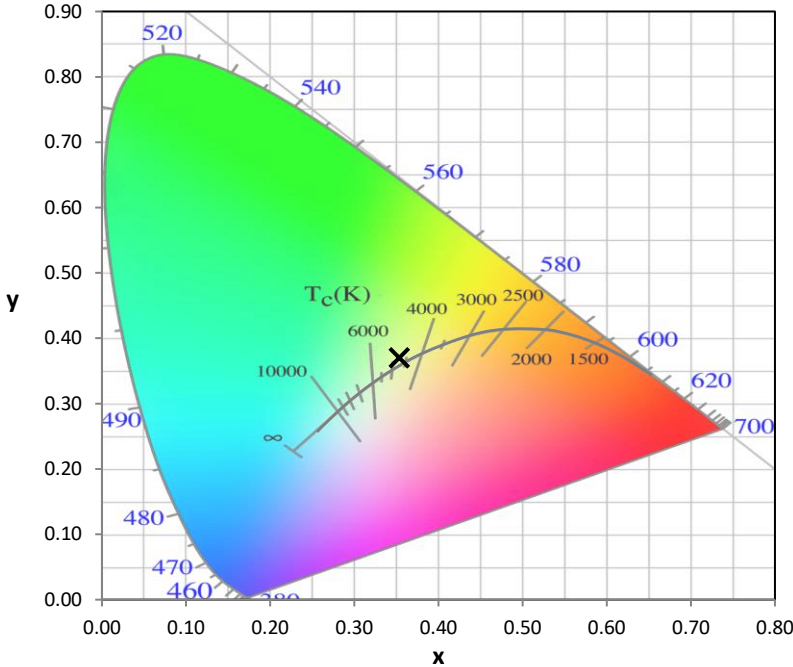
Stabilization Time: 37M
 Operation Time: 1H 37M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-10

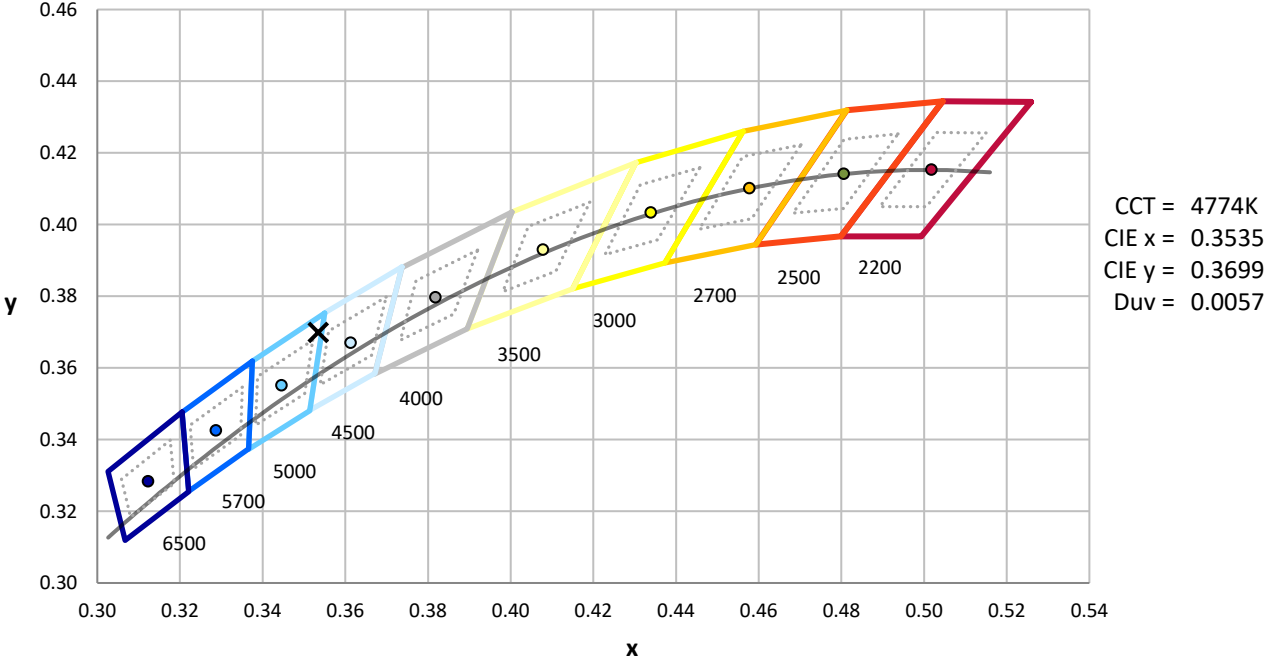
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



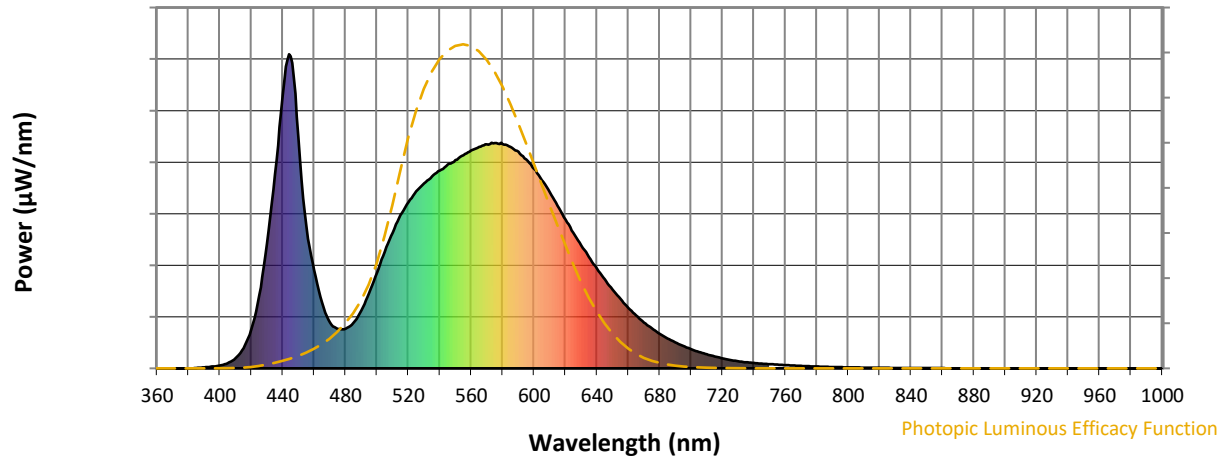
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

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Photopic Flux vs. Wavelength

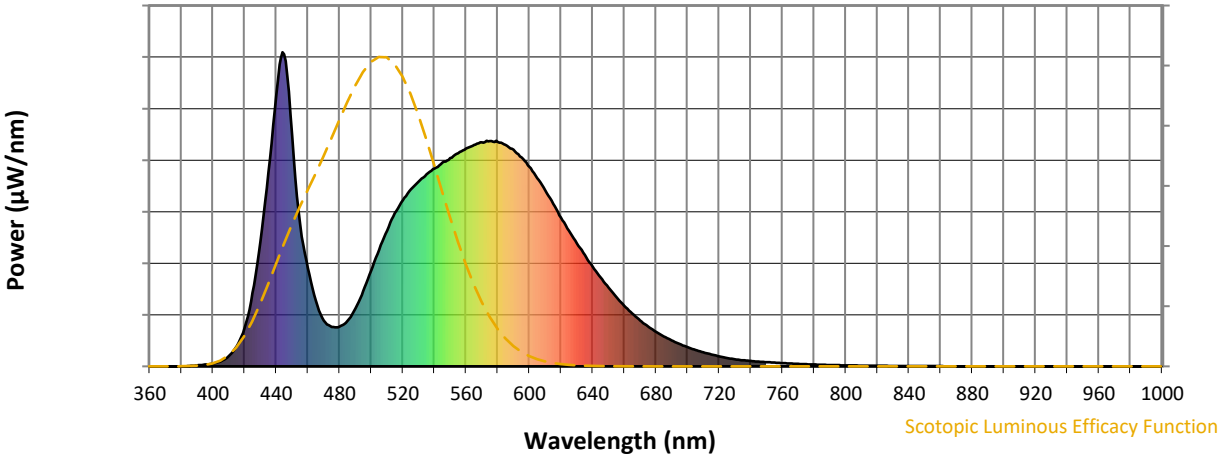


Photopic Lumens: NR

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	184	NR	620	474	NR	750	13	NR	880	0	NR
365	0	NR	495	239	NR	625	432	NR	755	12	NR	885	0	NR
370	0	NR	500	305	NR	630	392	NR	760	10	NR	890	0	NR
375	0	NR	505	371	NR	635	354	NR	765	9	NR	895	0	NR
380	0	NR	510	432	NR	640	318	NR	770	8	NR	900	0	NR
385	1	NR	515	488	NR	645	283	NR	775	7	NR	905	0	NR
390	3	NR	520	529	NR	650	251	NR	780	6	NR	910	0	NR
395	6	NR	525	563	NR	655	221	NR	785	5	NR	915	0	NR
400	9	NR	530	589	NR	660	193	NR	790	4	NR	920	0	NR
405	16	NR	535	611	NR	665	169	NR	795	4	NR	925	0	NR
410	33	NR	540	629	NR	670	146	NR	800	3	NR	930	0	NR
415	64	NR	545	649	NR	675	127	NR	805	3	NR	935	0	NR
420	124	NR	550	663	NR	680	110	NR	810	2	NR	940	0	NR
425	233	NR	555	678	NR	685	95	NR	815	2	NR	945	0	NR
430	397	NR	560	693	NR	690	83	NR	820	2	NR	950	0	NR
435	617	NR	565	705	NR	695	71	NR	825	2	NR	955	0	NR
440	868	NR	570	713	NR	700	61	NR	830	1	NR	960	0	NR
445	994	NR	575	717	NR	705	52	NR	835	1	NR	965	0	NR
450	736	NR	580	715	NR	710	45	NR	840	1	NR	970	0	NR
455	454	NR	585	705	NR	715	38	NR	845	1	NR	975	0	NR
460	314	NR	590	689	NR	720	32	NR	850	1	NR	980	0	NR
465	210	NR	595	665	NR	725	27	NR	855	1	NR	985	0	NR
470	146	NR	600	635	NR	730	23	NR	860	1	NR	990	0	NR
475	126	NR	605	599	NR	735	19	NR	865	0	NR	995	0	NR
480	126	NR	610	561	NR	740	17	NR	870	0	NR	1000	0	NR
485	144	NR	615	517	NR	745	15	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



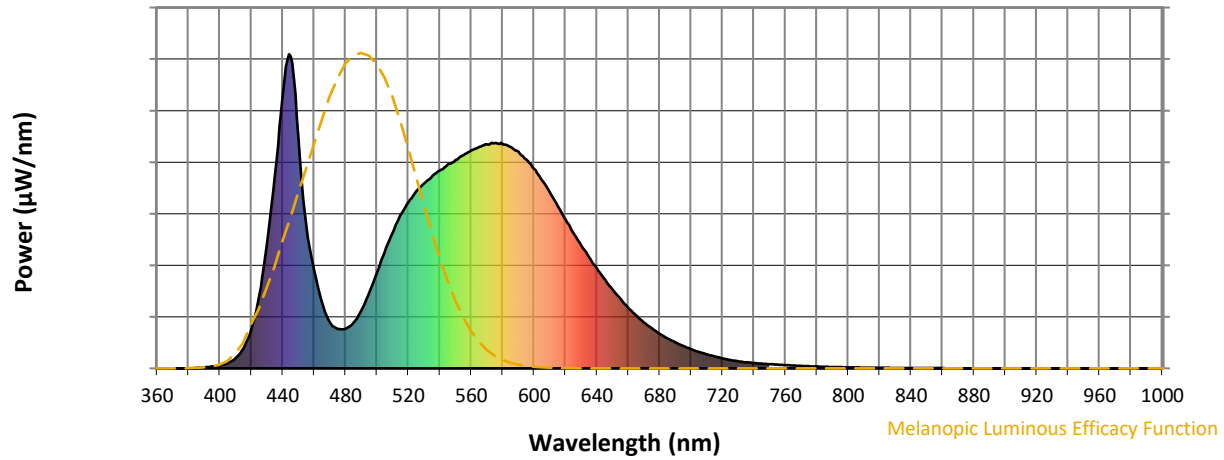
Scotopic Lumens: NR

S/P: 1.71

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	184	NR	620	474	NR	750	13	NR	880	0	NR
365	0	NR	495	239	NR	625	432	NR	755	12	NR	885	0	NR
370	0	NR	500	305	NR	630	392	NR	760	10	NR	890	0	NR
375	0	NR	505	371	NR	635	354	NR	765	9	NR	895	0	NR
380	0	NR	510	432	NR	640	318	NR	770	8	NR	900	0	NR
385	1	NR	515	488	NR	645	283	NR	775	7	NR	905	0	NR
390	3	NR	520	529	NR	650	251	NR	780	6	NR	910	0	NR
395	6	NR	525	563	NR	655	221	NR	785	5	NR	915	0	NR
400	9	NR	530	589	NR	660	193	NR	790	4	NR	920	0	NR
405	16	NR	535	611	NR	665	169	NR	795	4	NR	925	0	NR
410	33	NR	540	629	NR	670	146	NR	800	3	NR	930	0	NR
415	64	NR	545	649	NR	675	127	NR	805	3	NR	935	0	NR
420	124	NR	550	663	NR	680	110	NR	810	2	NR	940	0	NR
425	233	NR	555	678	NR	685	95	NR	815	2	NR	945	0	NR
430	397	NR	560	693	NR	690	83	NR	820	2	NR	950	0	NR
435	617	NR	565	705	NR	695	71	NR	825	2	NR	955	0	NR
440	868	NR	570	713	NR	700	61	NR	830	1	NR	960	0	NR
445	994	NR	575	717	NR	705	52	NR	835	1	NR	965	0	NR
450	736	NR	580	715	NR	710	45	NR	840	1	NR	970	0	NR
455	454	NR	585	705	NR	715	38	NR	845	1	NR	975	0	NR
460	314	NR	590	689	NR	720	32	NR	850	1	NR	980	0	NR
465	210	NR	595	665	NR	725	27	NR	855	1	NR	985	0	NR
470	146	NR	600	635	NR	730	23	NR	860	1	NR	990	0	NR
475	126	NR	605	599	NR	735	19	NR	865	0	NR	995	0	NR
480	126	NR	610	561	NR	740	17	NR	870	0	NR	1000	0	NR
485	144	NR	615	517	NR	745	15	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-10

Melanopic Flux vs. Wavelength



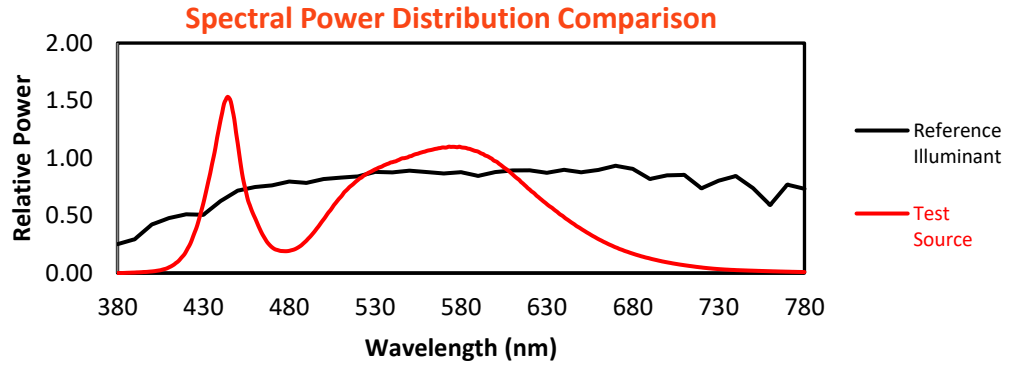
Melanopic Lumens: NR

M/P: 3.39

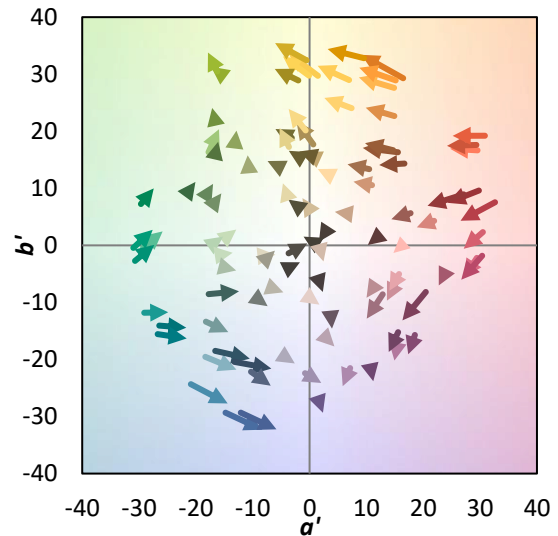
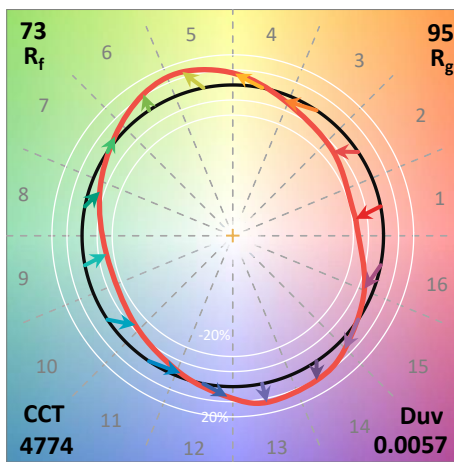
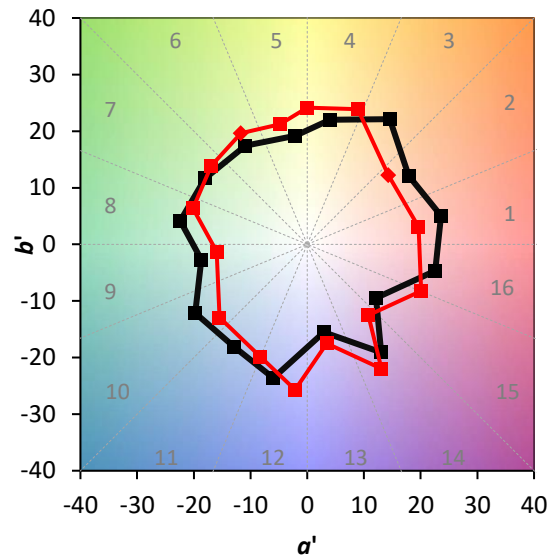
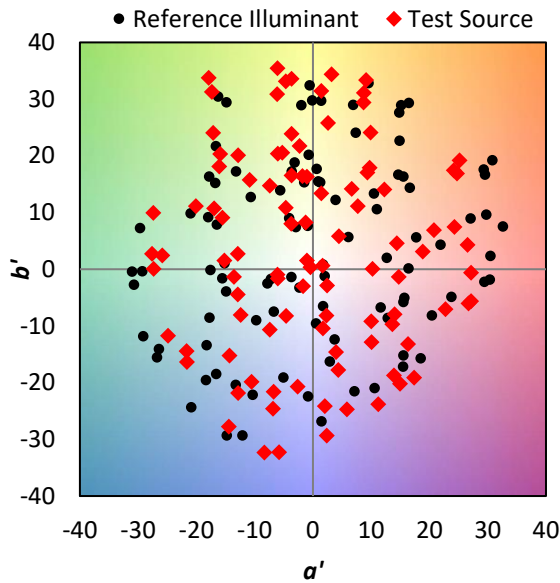
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	184	NR	620	474	NR	750	13	NR	880	0	NR
365	0	NR	495	239	NR	625	432	NR	755	12	NR	885	0	NR
370	0	NR	500	305	NR	630	392	NR	760	10	NR	890	0	NR
375	0	NR	505	371	NR	635	354	NR	765	9	NR	895	0	NR
380	0	NR	510	432	NR	640	318	NR	770	8	NR	900	0	NR
385	1	NR	515	488	NR	645	283	NR	775	7	NR	905	0	NR
390	3	NR	520	529	NR	650	251	NR	780	6	NR	910	0	NR
395	6	NR	525	563	NR	655	221	NR	785	5	NR	915	0	NR
400	9	NR	530	589	NR	660	193	NR	790	4	NR	920	0	NR
405	16	NR	535	611	NR	665	169	NR	795	4	NR	925	0	NR
410	33	NR	540	629	NR	670	146	NR	800	3	NR	930	0	NR
415	64	NR	545	649	NR	675	127	NR	805	3	NR	935	0	NR
420	124	NR	550	663	NR	680	110	NR	810	2	NR	940	0	NR
425	233	NR	555	678	NR	685	95	NR	815	2	NR	945	0	NR
430	397	NR	560	693	NR	690	83	NR	820	2	NR	950	0	NR
435	617	NR	565	705	NR	695	71	NR	825	2	NR	955	0	NR
440	868	NR	570	713	NR	700	61	NR	830	1	NR	960	0	NR
445	994	NR	575	717	NR	705	52	NR	835	1	NR	965	0	NR
450	736	NR	580	715	NR	710	45	NR	840	1	NR	970	0	NR
455	454	NR	585	705	NR	715	38	NR	845	1	NR	975	0	NR
460	314	NR	590	689	NR	720	32	NR	850	1	NR	980	0	NR
465	210	NR	595	665	NR	725	27	NR	855	1	NR	985	0	NR
470	146	NR	600	635	NR	730	23	NR	860	1	NR	990	0	NR
475	126	NR	605	599	NR	735	19	NR	865	0	NR	995	0	NR
480	126	NR	610	561	NR	740	17	NR	870	0	NR	1000	0	NR
485	144	NR	615	517	NR	745	15	NR	875	0	NR			

Summary

$R_f = 73.1$
 $R_g = 94.9$
 $CIE R_a = 70.8$
 $R_9 = -40.0$

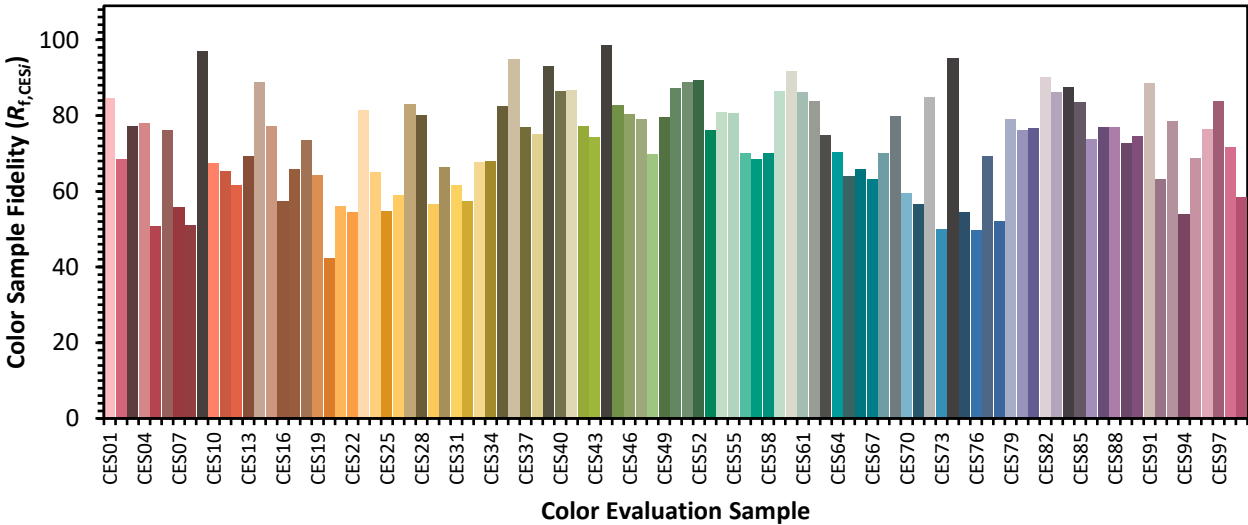


Color Vector Graphics

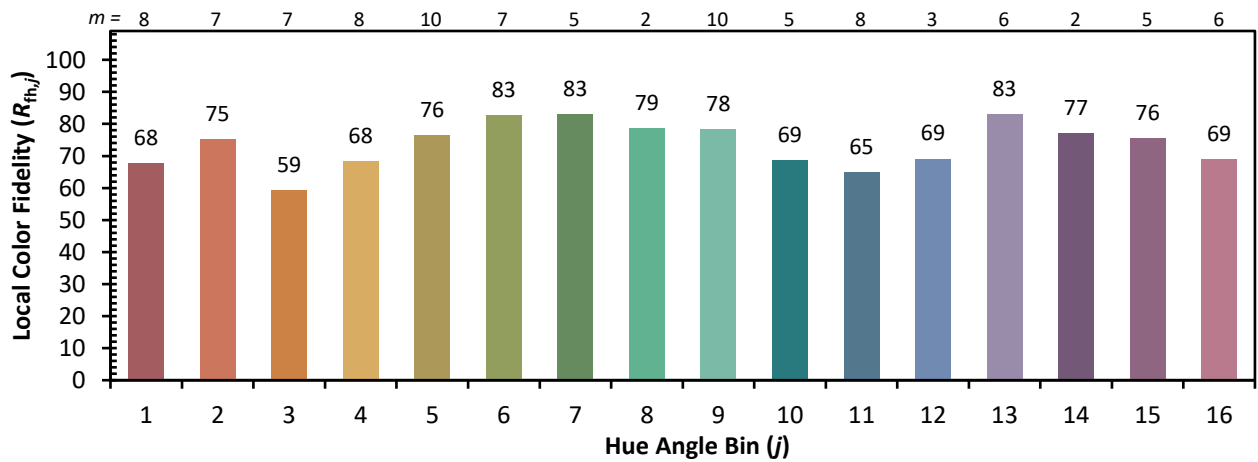
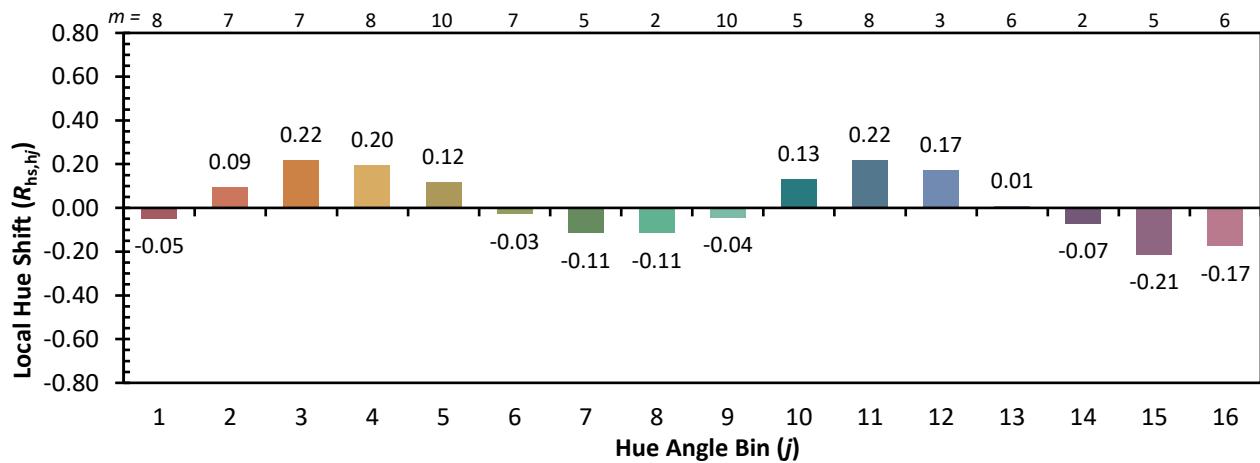
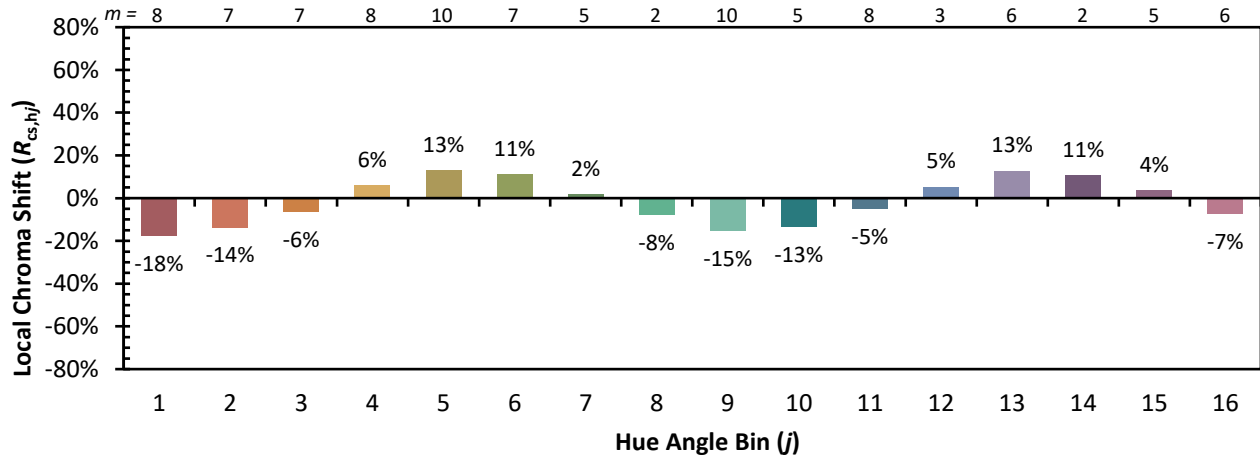


Individual Sample Fidelity Index ($R_{f,i}$)

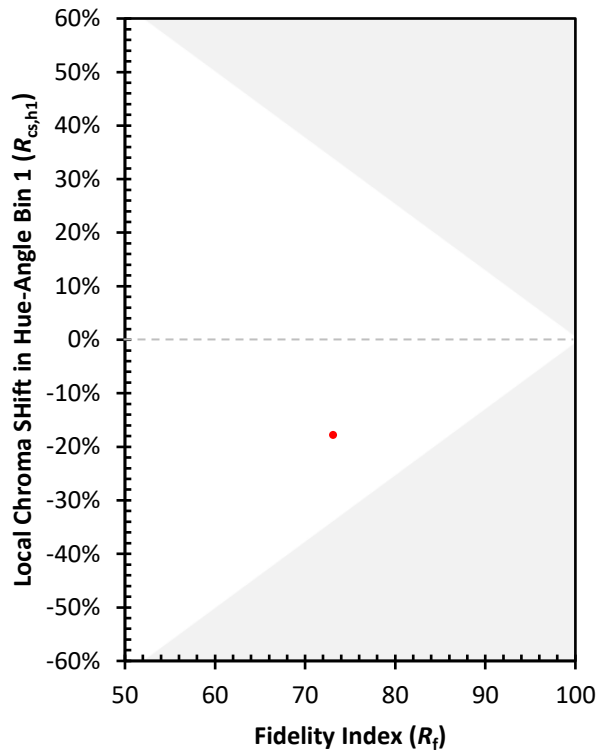
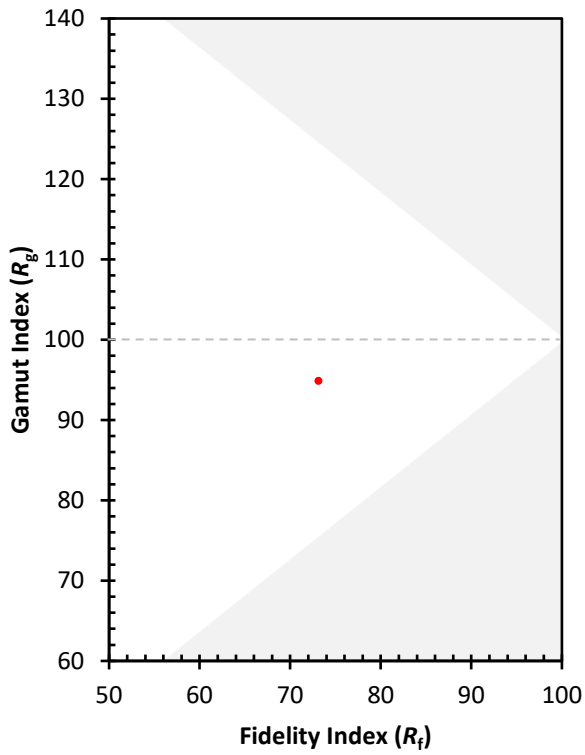
CES01 = 85	CES26 = 59	CES51 = 89	CES76 = 50
CES02 = 59	CES27 = 83	CES52 = 89	CES77 = 69
CES03 = 30	CES28 = 80	CES53 = 76	CES78 = 52
CES04 = 69	CES29 = 57	CES54 = 81	CES79 = 79
CES05 = 46	CES30 = 66	CES55 = 81	CES80 = 76
CES06 = 50	CES31 = 62	CES56 = 70	CES81 = 77
CES07 = 39	CES32 = 57	CES57 = 69	CES82 = 90
CES08 = 38	CES33 = 68	CES58 = 70	CES83 = 86
CES09 = 29	CES34 = 68	CES59 = 86	CES84 = 88
CES10 = 73	CES35 = 83	CES60 = 92	CES85 = 84
CES11 = 56	CES36 = 95	CES61 = 86	CES86 = 74
CES12 = 61	CES37 = 77	CES62 = 84	CES87 = 77
CES13 = 41	CES38 = 75	CES63 = 75	CES88 = 77
CES14 = 74	CES39 = 93	CES64 = 70	CES89 = 73
CES15 = 70	CES40 = 86	CES65 = 64	CES90 = 75
CES16 = 46	CES41 = 87	CES66 = 66	CES91 = 89
CES17 = 49	CES42 = 77	CES67 = 63	CES92 = 63
CES18 = 55	CES43 = 74	CES68 = 70	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 54
CES20 = 64	CES45 = 83	CES70 = 60	CES95 = 69
CES21 = 85	CES46 = 80	CES71 = 57	CES96 = 76
CES22 = 77	CES47 = 79	CES72 = 85	CES97 = 84
CES23 = 91	CES48 = 70	CES73 = 50	CES98 = 72
CES24 = 90	CES49 = 80	CES74 = 95	CES99 = 58
CES25 = 71	CES50 = 87	CES75 = 55	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)