

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461846

Luminaire Tested: USSL-70-740-U-T4RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461846
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-740-U-T4RE
Description: USSL DISCRETE LED 1 SQUARE 70W 70CRI 4000K FIXTURE w/ TYPE IV ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11824.1 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

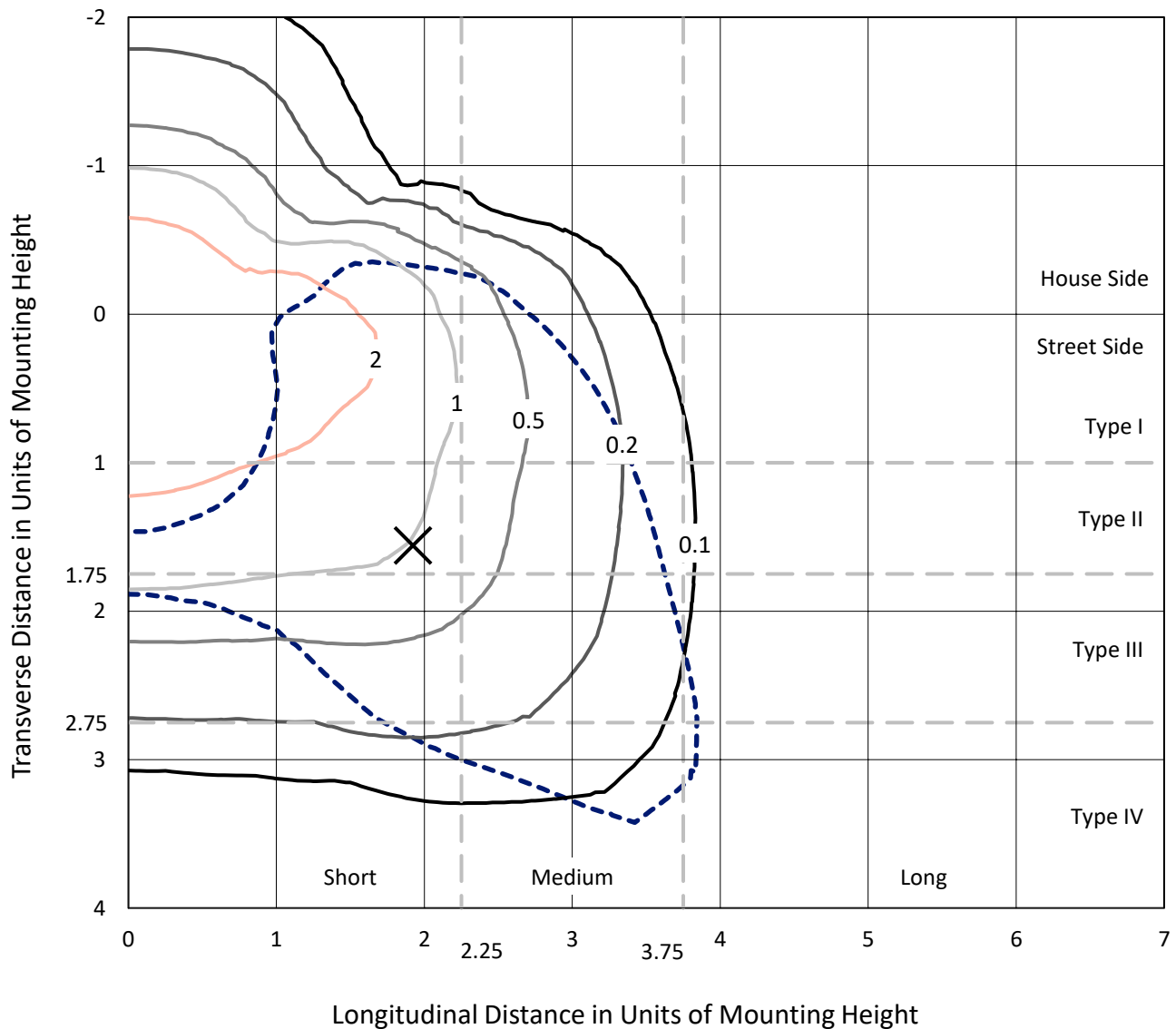
Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

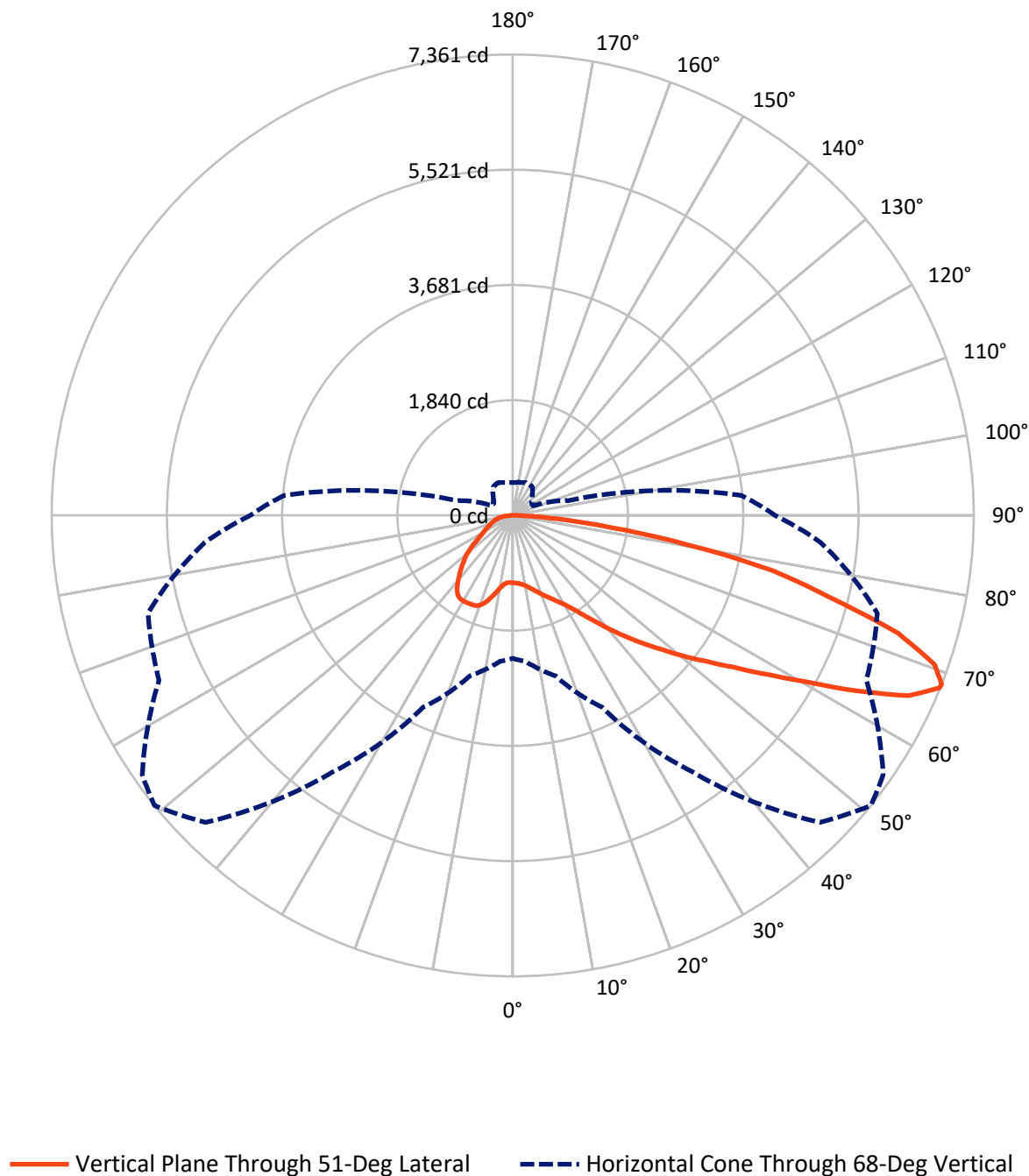


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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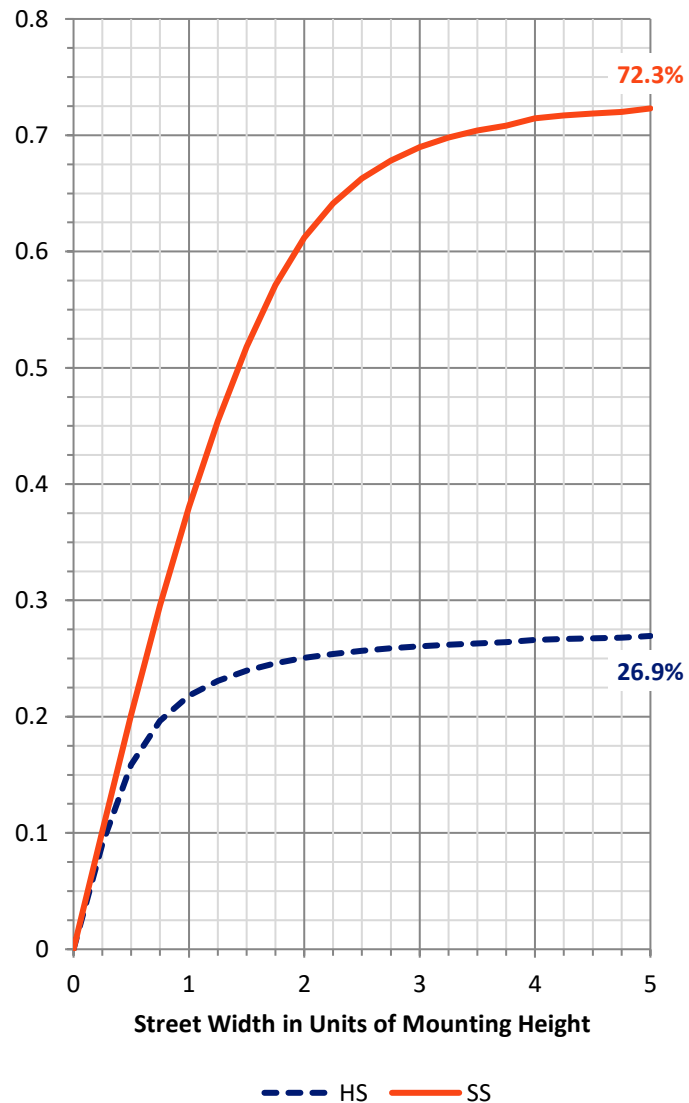
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3232.4	0.0	3232.4
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	8591.6	0.0	8591.6
	% Fixture	72.7	0.0	72.7
Total	Lumens	11824.1	0.0	11824.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	0.9
10°-20°	371.5	3.1
20°-30°	715.7	6.1
30°-40°	1145.4	9.7
40°-50°	1790.7	15.1
50°-60°	2579.0	21.8
60°-70°	3087.9	26.1
70°-80°	1762.1	14.9
80°-90°	265.2	2.2
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°	11824.1	100.0
0°-180°	11824.1	100.0

Coefficient of Utilization



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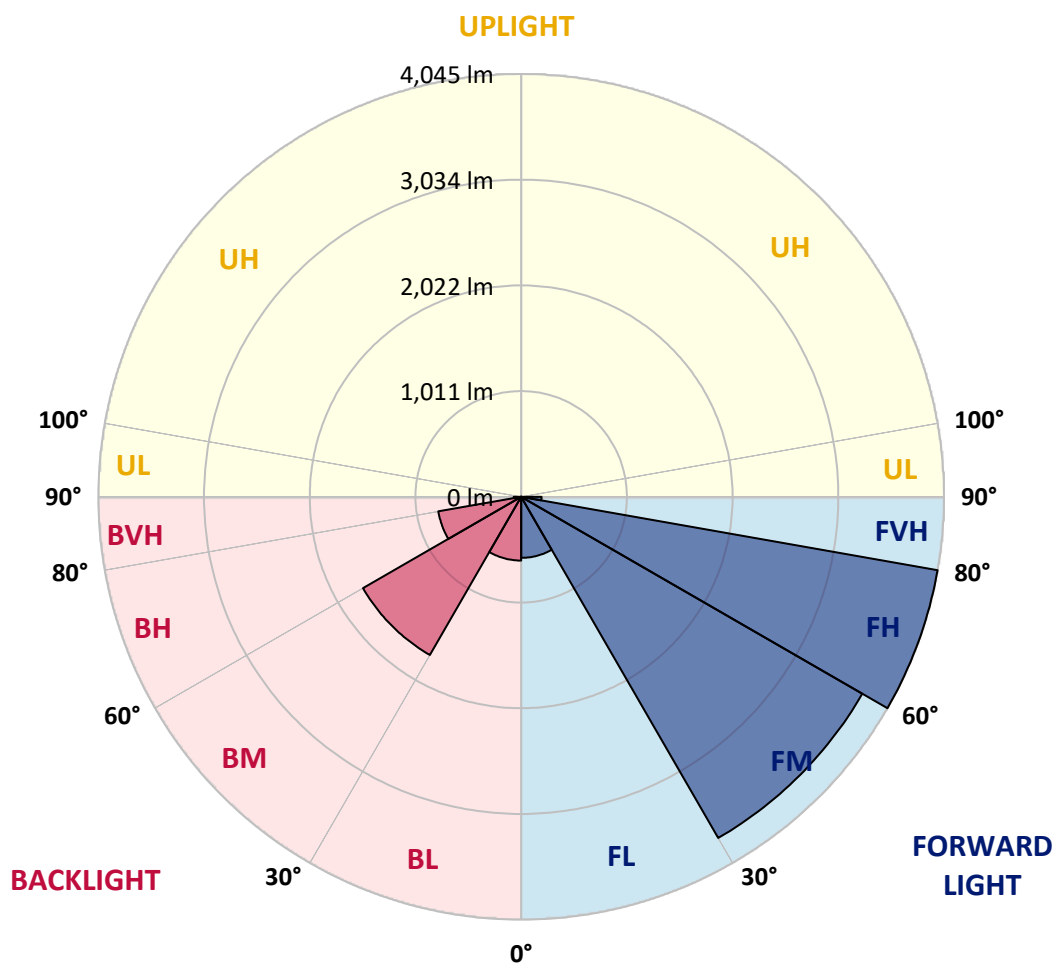
CATALOG NUMBER: USSL-70-740-U-T4RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.9	4.9			
FM	(30°-60°)	3768.1	31.9			
FH	(60°-80°)	4045.0	34.2			G2/5000
FVH	(80°-90°)	194.7	1.6			G2/225
BL	(0°-30°)	609.8	5.2	B2/1000		
BM	(30°-60°)	1747.1	14.8	B2/2500		
BH	(60°-80°)	805.0	6.8	B2/1000		G2/1000
BVH	(80°-90°)	70.5	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1088.4	1087.8	1085.6	1088.9	1085.6	1085.1	1082.3	1083.9	1079.5	1080.1	1080.1
5°	1107.6	1106.5	1106.0	1104.3	1100.5	1099.9	1094.4	1097.2	1093.3	1090.6	1087.3
7.5°	1140.7	1138.5	1134.6	1130.8	1124.2	1117.0	1112.6	1115.3	1110.4	1107.1	1102.7
10°	1191.9	1189.7	1183.1	1175.9	1164.9	1151.1	1141.8	1140.1	1134.6	1129.7	1124.7
12.5°	1249.7	1247.5	1243.1	1234.9	1216.1	1196.9	1182.5	1178.7	1165.5	1158.3	1156.7
15°	1302.6	1298.8	1298.8	1287.7	1272.3	1249.7	1232.1	1226.1	1203.5	1196.3	1195.8
17.5°	1343.9	1340.1	1339.5	1336.2	1321.3	1301.0	1285.5	1279.5	1258.0	1245.3	1247.5
20°	1393.5	1389.6	1388.5	1386.3	1377.5	1358.8	1348.3	1343.4	1316.9	1299.9	1308.7
22.5°	1465.1	1462.3	1457.4	1447.5	1435.4	1423.8	1410.6	1408.9	1387.4	1373.1	1390.7
25°	1549.4	1542.8	1540.6	1524.6	1509.2	1492.6	1481.6	1483.8	1464.0	1451.9	1475.0
27.5°	1654.6	1646.9	1639.7	1623.7	1594.5	1578.6	1565.9	1568.1	1548.8	1548.3	1592.3
30°	1773.0	1770.8	1757.6	1734.4	1698.1	1678.2	1659.0	1663.4	1653.5	1660.1	1733.9
32.5°	1906.8	1907.4	1890.3	1863.9	1826.4	1801.1	1786.8	1789.0	1795.6	1826.4	1915.1
35°	2077.6	2067.7	2068.2	2037.9	1982.8	1960.8	1955.3	1958.6	1981.7	2085.3	2194.3
37.5°	2265.9	2257.7	2257.7	2235.1	2182.2	2144.8	2155.8	2165.1	2245.0	2438.3	2554.0
40°	2468.6	2457.1	2475.8	2468.1	2406.4	2393.7	2387.7	2420.7	2566.1	2832.7	2989.7
42.5°	2619.5	2621.2	2632.2	2643.8	2612.4	2628.4	2643.2	2681.2	2893.8	3265.6	3423.7
45°	2761.6	2762.7	2772.1	2789.7	2801.9	2845.9	2912.6	2967.1	3257.4	3644.0	3812.6
47.5°	2913.7	2908.2	2923.6	2967.1	2984.2	3098.7	3197.3	3292.6	3579.6	4019.6	4177.2
50°	3076.7	3077.2	3093.8	3151.1	3204.5	3380.2	3528.3	3633.5	3931.0	4395.3	4510.9
52.5°	3321.2	3300.3	3316.3	3358.2	3445.7	3682.6	3870.4	3992.7	4282.9	4751.1	4875.0
55°	3594.4	3598.3	3622.0	3650.6	3770.7	4068.1	4276.9	4416.2	4665.7	5180.7	5299.1
57.5°	3856.6	3836.2	3901.8	3994.3	4133.1	4548.4	4792.4	4901.5	5082.7	5695.1	5767.8
60°	3923.8	3928.8	4042.2	4280.2	4583.7	5164.2	5397.2	5451.7	5615.8	6345.6	6163.9
62.5°	3622.0	3636.8	3896.3	4371.0	4996.7	5876.4	6170.5	6173.8	6196.9	6654.6	6184.8
65°	2956.6	2987.5	3337.2	4044.4	5181.8	6575.3	6941.6	6914.6	6445.3	6538.9	5802.5
67.5°	2393.7	2433.4	2755.0	3517.9	5040.3	6928.4	7352.5	7215.3	6301.0	6156.2	5098.6
68°	2283.6	2338.6	2654.8	3380.2	4995.6	6933.9	7361.3	7220.8	6230.5	6027.8	4931.2
70°	1900.2	1958.6	2261.0	3006.2	4812.2	6746.6	7148.1	7032.5	5850.5	5417.5	4267.5
72.5°	1191.9	1227.2	1587.9	2394.3	4385.4	6060.3	6432.1	6403.5	5237.4	4429.4	3234.8
75°	511.7	528.8	788.2	1444.7	3379.6	5117.9	5225.9	5245.1	4152.9	3135.1	2048.9
77.5°	335.4	336.0	364.6	638.9	2045.6	4106.1	4245.5	3924.9	2784.8	1670.0	958.9
80°	282.0	280.9	279.2	306.2	905.5	2760.0	2829.4	2511.0	1416.6	677.5	329.9
82.5°	238.5	233.0	221.4	229.7	353.1	1410.0	1567.0	1377.5	650.5	244.5	148.2
85°	167.4	161.4	146.0	158.1	178.5	613.6	698.4	607.0	230.8	142.7	87.6
87.5°	72.2	60.6	62.8	74.4	79.9	182.9	191.7	134.9	78.8	58.9	35.3
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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CATALOG NUMBER: USSL-70-740-U-T4RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1077.9	1077.9	1076.2	1075.7	1073.5	1073.5	1070.7	1070.7	1071.3	1069.1	1069.6
5°	1086.2	1084.5	1082.8	1080.1	1078.4	1078.4	1080.1	1082.3	1083.9	1084.5	1083.9
7.5°	1099.9	1099.9	1098.8	1098.3	1102.7	1111.5	1122.5	1128.6	1141.2	1145.1	1149.5
10°	1124.7	1124.2	1126.9	1137.9	1156.7	1179.8	1200.2	1217.8	1236.5	1239.3	1243.7
12.5°	1153.3	1160.0	1174.8	1202.9	1240.4	1271.2	1301.5	1329.6	1346.1	1357.1	1354.4
15°	1198.5	1209.5	1243.1	1292.7	1330.2	1372.6	1405.6	1429.8	1446.9	1453.0	1458.5
17.5°	1258.0	1277.3	1329.6	1386.9	1430.4	1462.3	1486.0	1492.6	1500.3	1503.6	1505.9
20°	1329.6	1367.1	1432.6	1483.8	1513.0	1521.8	1526.2	1524.0	1527.9	1532.8	1535.6
22.5°	1418.8	1468.4	1541.7	1567.0	1560.9	1547.7	1545.5	1548.8	1558.2	1560.9	1565.3
25°	1525.1	1573.0	1640.2	1621.0	1573.6	1556.5	1571.4	1573.0	1574.2	1573.0	1576.9
27.5°	1649.1	1697.0	1717.9	1630.3	1568.1	1575.8	1588.5	1570.8	1548.8	1533.9	1538.3
30°	1785.1	1819.8	1766.9	1614.9	1570.3	1586.3	1566.4	1509.2	1473.4	1453.5	1456.3
32.5°	1960.3	1958.6	1788.4	1607.2	1584.6	1560.4	1486.0	1421.0	1379.2	1355.5	1356.6
35°	2182.8	2118.3	1805.5	1629.2	1581.3	1491.0	1404.0	1334.0	1301.0	1281.7	1283.9
37.5°	2479.1	2300.1	1843.5	1661.2	1526.2	1403.4	1318.6	1276.7	1259.7	1245.9	1249.2
40°	2866.3	2550.7	1956.9	1668.3	1423.8	1302.6	1268.5	1247.5	1231.0	1215.6	1221.1
42.5°	3195.1	2806.8	2178.4	1617.7	1296.0	1223.3	1235.4	1219.4	1194.1	1166.6	1169.3
45°	3522.8	3034.8	2440.0	1507.5	1164.9	1164.4	1192.5	1168.8	1133.5	1091.1	1092.2
47.5°	3798.8	3258.5	2703.8	1373.1	1045.4	1089.5	1124.7	1093.3	1034.9	982.1	977.1
50°	4051.6	3512.4	2924.1	1221.6	943.5	996.9	1015.7	962.8	916.5	886.2	883.5
52.5°	4322.6	3814.2	3100.4	1087.8	833.3	868.6	884.6	868.0	848.2	830.0	826.2
55°	4671.2	4208.0	3284.3	993.6	716.0	749.1	781.6	809.7	797.5	788.2	782.7
57.5°	5082.7	4709.2	3341.6	872.4	611.9	645.0	726.5	769.5	760.1	753.5	751.3
60°	5392.2	5068.3	3019.4	678.0	527.1	578.3	691.8	740.3	721.0	703.9	698.9
62.5°	5380.6	4975.3	2348.0	514.4	470.4	533.7	656.5	695.1	665.9	650.5	643.9
65°	4977.5	4539.0	1653.5	426.3	419.7	490.8	609.2	638.9	611.9	593.7	590.4
67.5°	4346.8	3867.1	1026.7	370.1	375.6	446.1	559.0	587.1	555.2	538.7	539.8
68°	4188.7	3662.2	912.1	358.6	365.7	439.5	548.6	572.8	543.6	528.2	527.1
70°	3579.6	3024.9	602.6	326.6	335.4	408.1	509.5	527.1	502.9	490.2	487.4
72.5°	2644.3	2051.1	347.5	288.6	300.7	369.0	456.6	474.8	470.4	473.7	479.2
75°	1635.3	1184.2	256.7	255.0	267.7	337.1	413.6	447.2	457.2	472.6	476.4
77.5°	780.5	571.2	212.1	220.3	236.3	296.9	376.2	429.1	430.2	432.4	435.1
80°	257.2	218.1	179.0	181.2	204.3	261.1	340.4	378.9	353.1	346.4	338.2
82.5°	136.0	140.5	144.3	146.0	170.2	215.4	267.1	280.4	257.8	181.2	179.0
85°	79.3	83.7	92.5	100.2	116.8	148.7	192.8	193.3	164.1	81.0	71.1
87.5°	26.4	31.9	31.4	37.5	44.1	59.5	81.5	84.3	67.7	28.1	16.0
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

McGraw-Edison

Report Number: SP2-2501-321-1

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-740-U-T4W

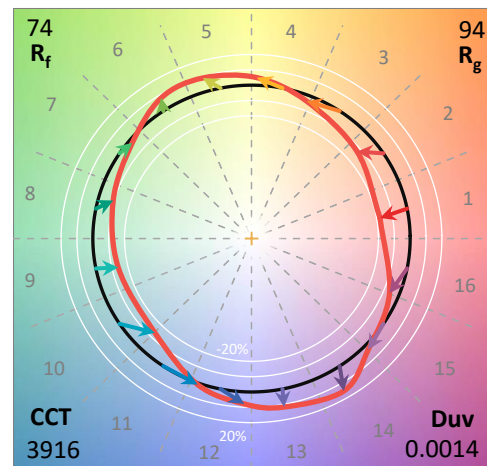
Data in this report applies to families of products including GKO-PB1E-740-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP2 - 165CM SPHERE
 Measurement Geometry: 4π
 Issue Date: 04/10/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GKO-PB1E-740-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K):	3916	CRI (Ra):	71.0		
CIE u':	0.2259	R1:	67.4	R9:	-37.9
CIE v':	0.5049	R2:	78.3	R10:	48.9
Duv:	0.0014	R3:	87.2	R11:	64.6
CIE x:	0.3853	R4:	69.5	R12:	40.9
CIE y:	0.3827	R5:	67.2	R13:	69.2
CIE z:	0.2321	R6:	69.3	R14:	92.7
Peak Wavelength (nm):	449	R7:	79.9	R15:	59.8
Dominant Wavelength (nm):	578	R8:	48.9		
Purity:	30.46652				
Rf:	73.5				
Rg:	93.5				



Test Conditions

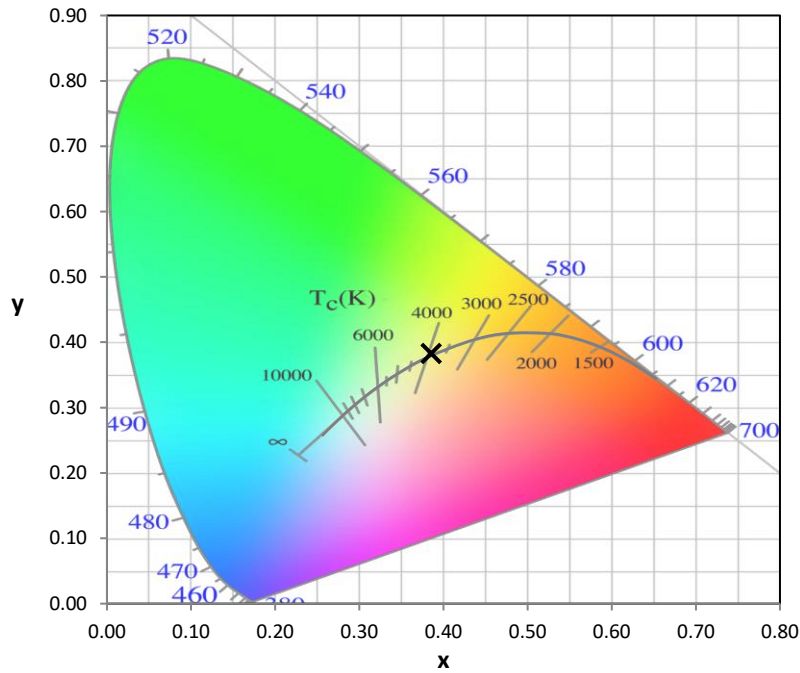
Stabilization Time: 33M
 Operation Time: 1H 33M
 Sphere Temperature (°C): 25.0

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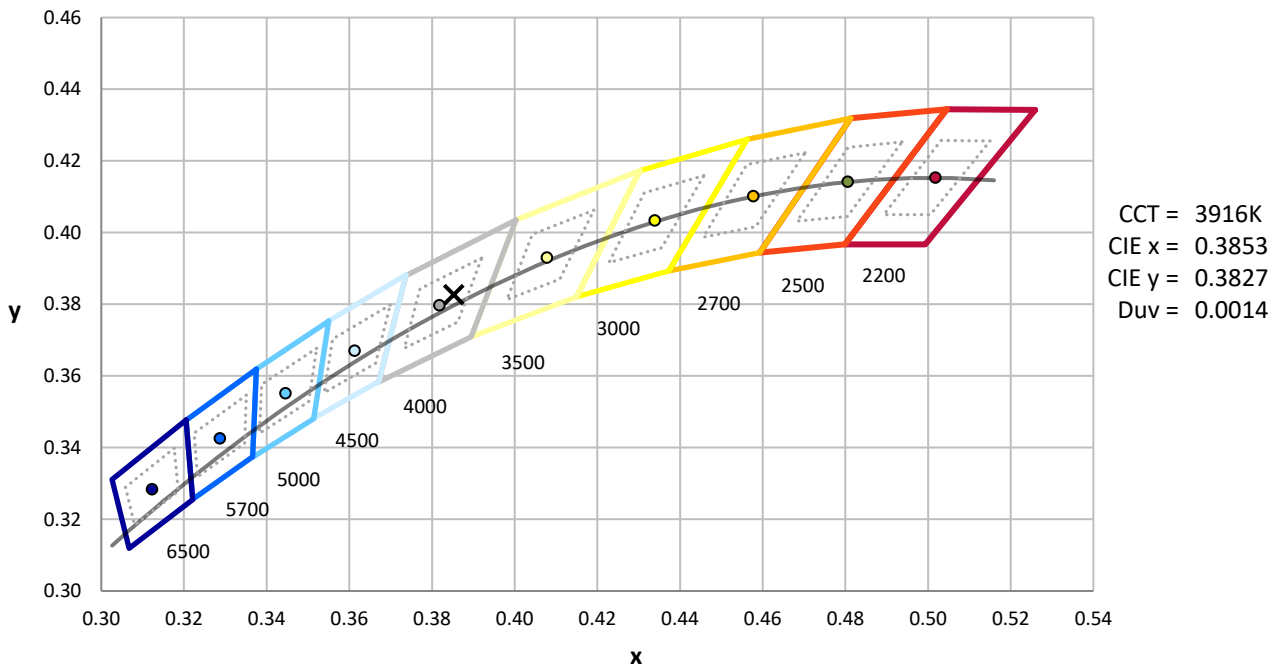
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



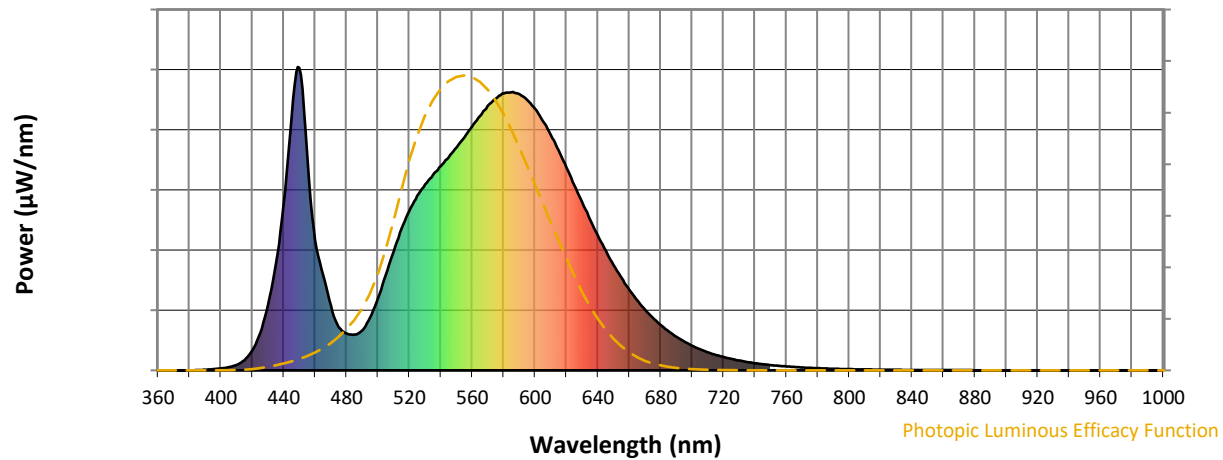
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

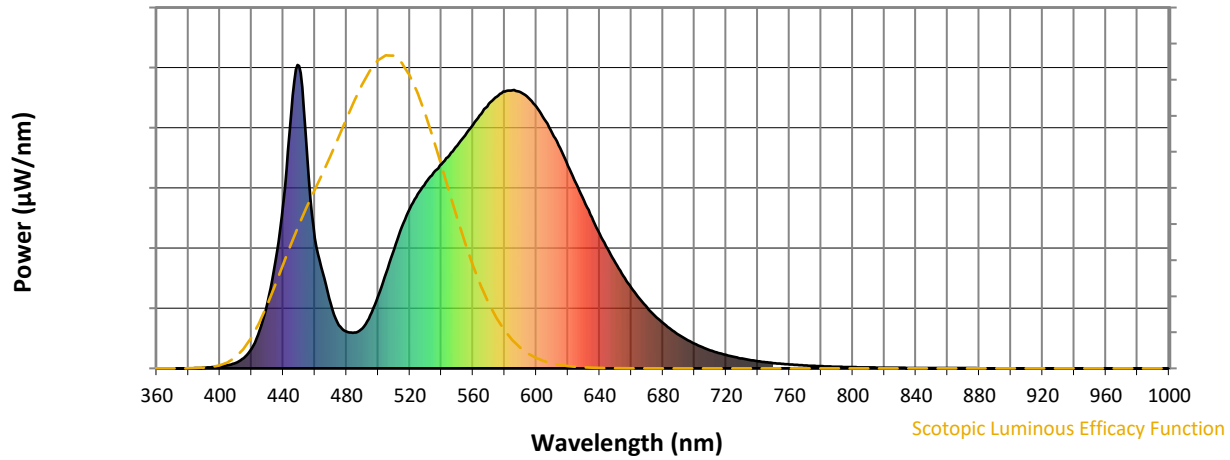


Photopic Lumens: NR

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	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



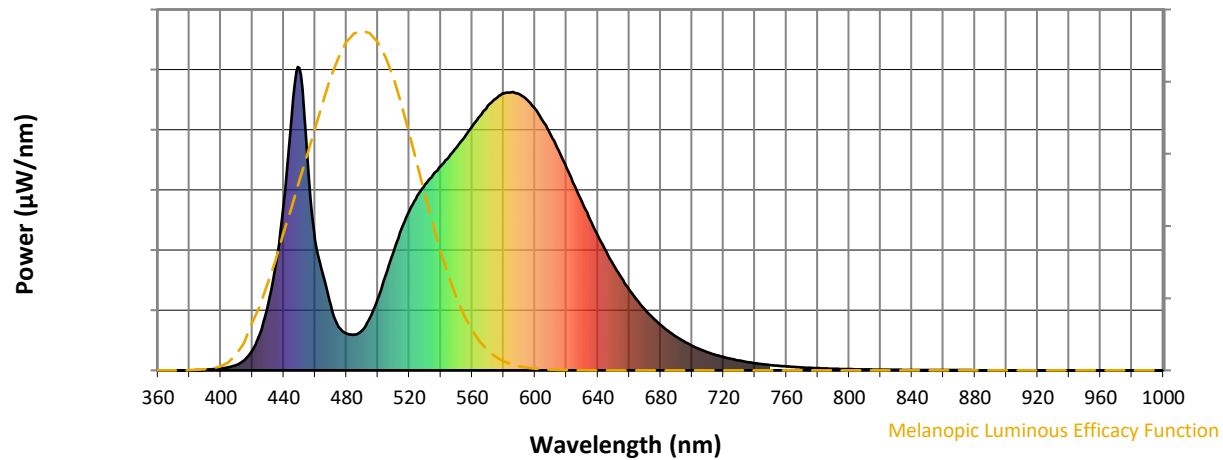
Scotopic Lumens: NR

S/P: 1.49

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

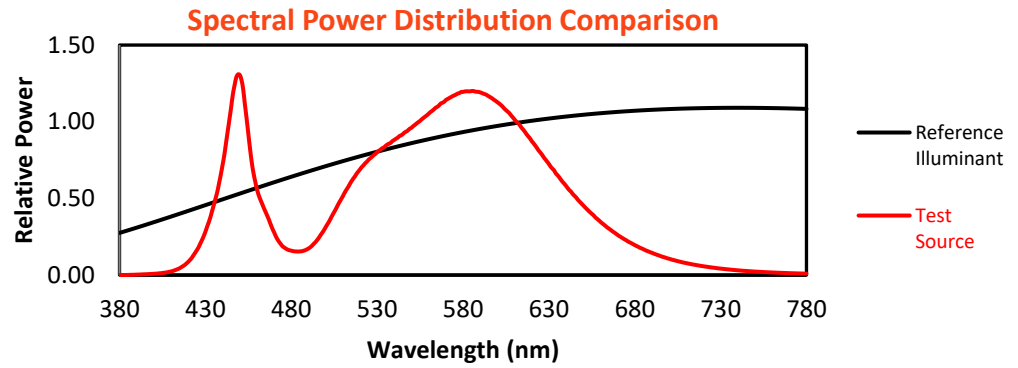
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

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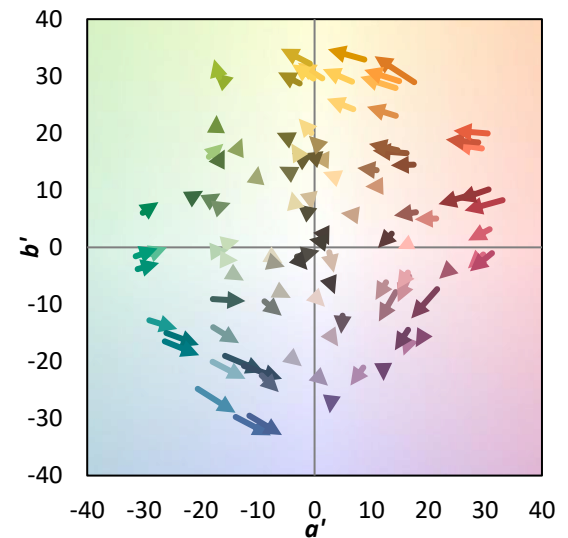
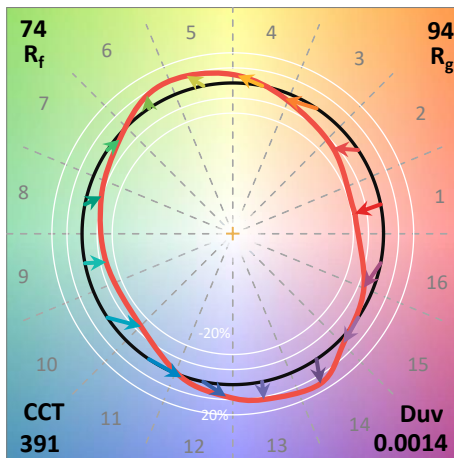
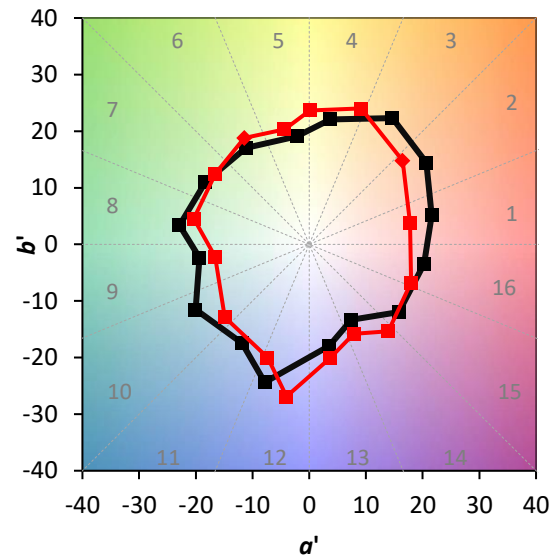
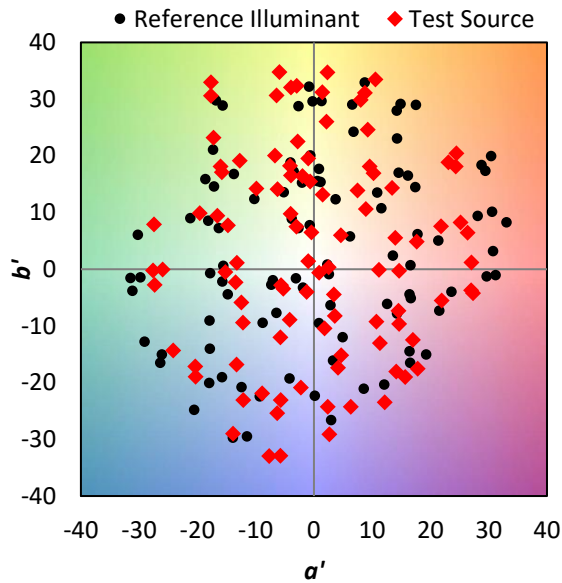
TM-30-18

Summary

$R_f = 73.5$
 $R_g = 93.5$
 $CIE R_a = 71.0$
 $R_g = -37.9$

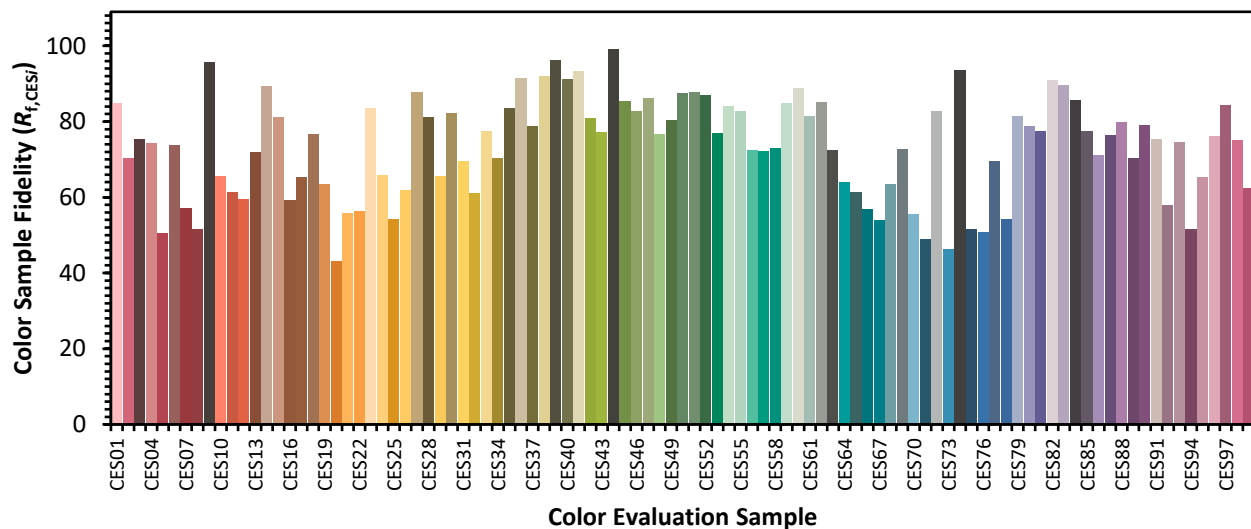


Color Vector Graphics

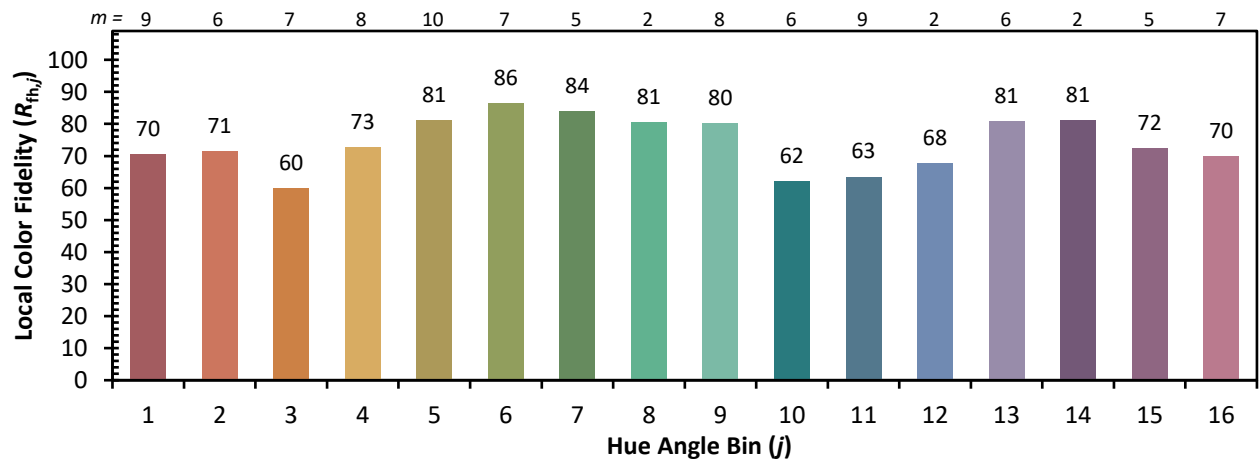
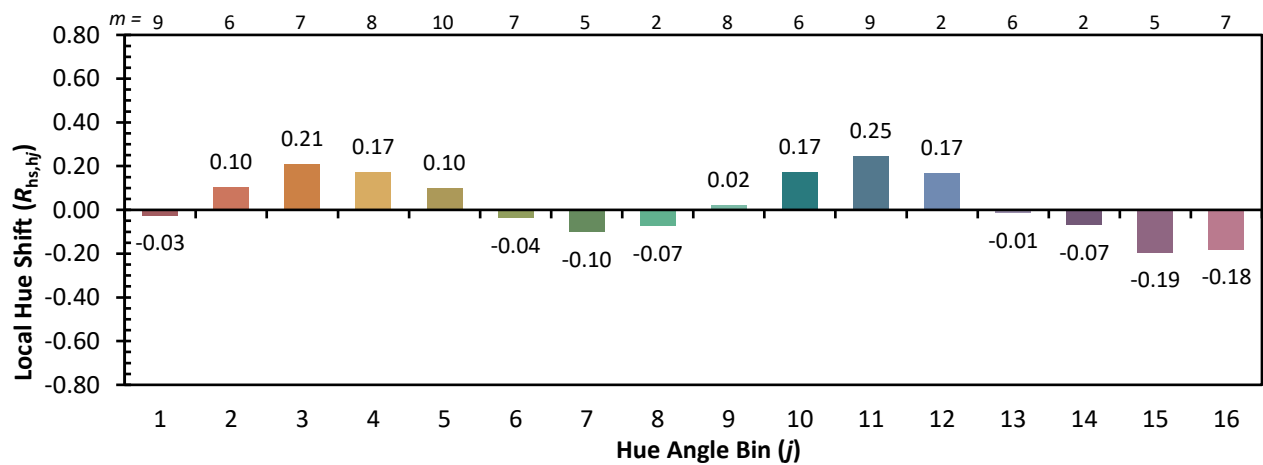
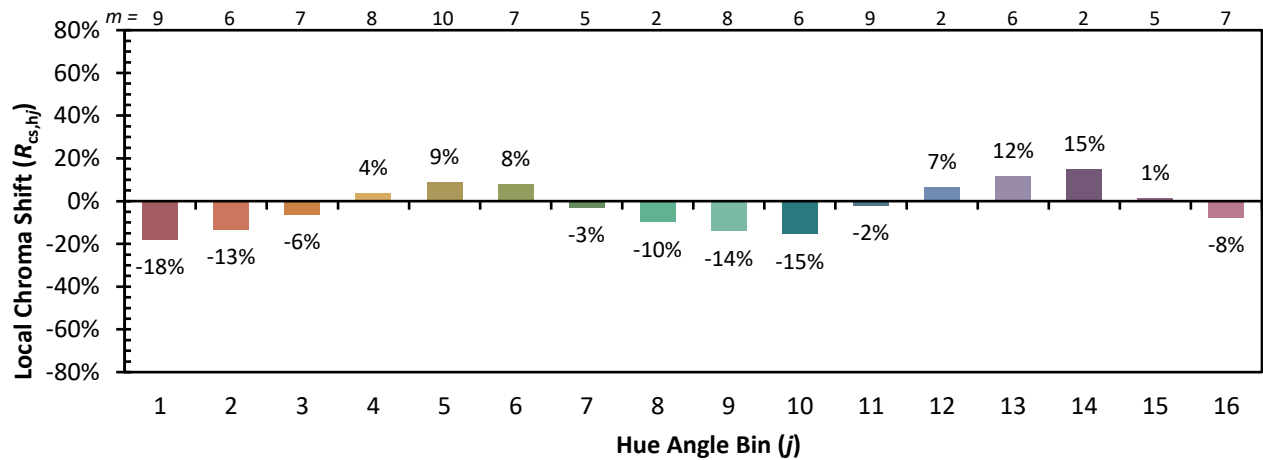


Individual Sample Fidelity Index ($R_{f,i}$)

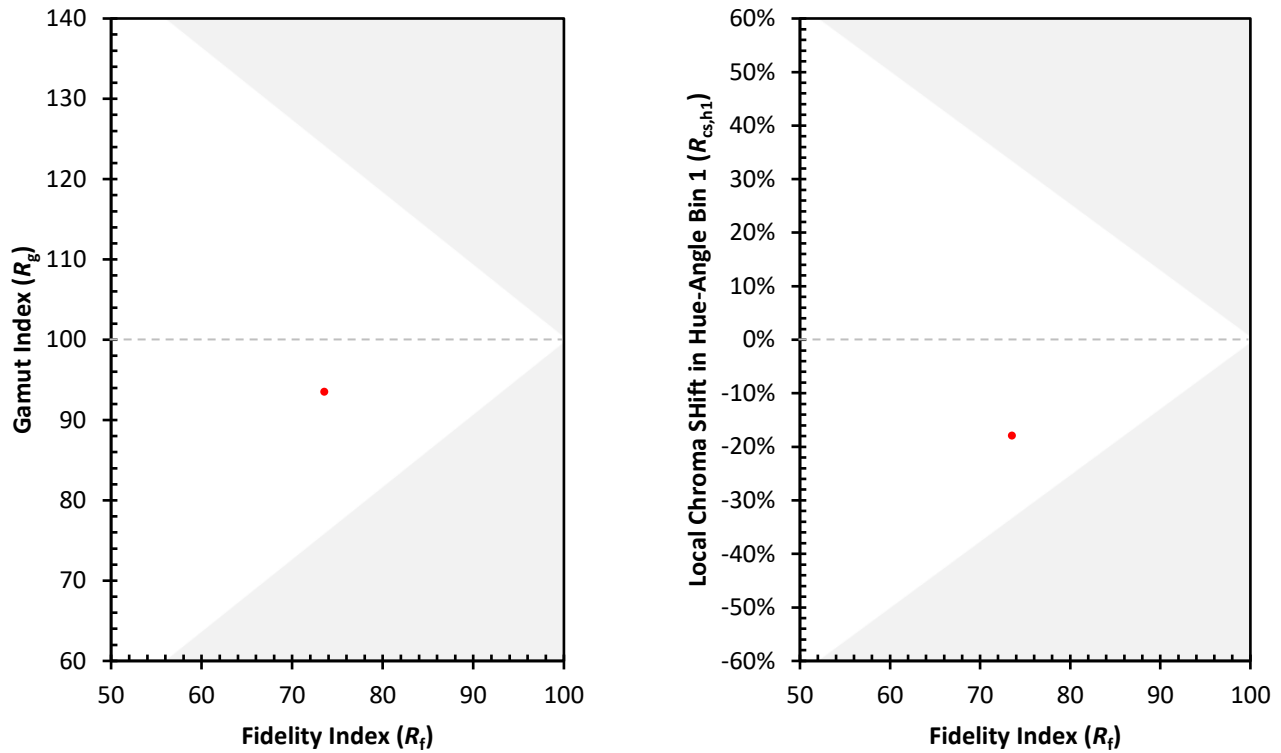
CES01 = 85	CES26 = 62	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 54
CES04 = 70	CES29 = 66	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 82	CES55 = 83	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 61	CES57 = 72	CES82 = 91
CES08 = 39	CES33 = 77	CES58 = 73	CES83 = 90
CES09 = 29	CES34 = 70	CES59 = 85	CES84 = 86
CES10 = 74	CES35 = 84	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 91	CES61 = 81	CES86 = 71
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 76
CES13 = 42	CES38 = 92	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 64	CES89 = 70
CES15 = 71	CES40 = 91	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 93	CES66 = 57	CES91 = 75
CES17 = 49	CES42 = 81	CES67 = 54	CES92 = 58
CES18 = 56	CES43 = 77	CES68 = 63	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 73	CES94 = 52
CES20 = 65	CES45 = 85	CES70 = 56	CES95 = 65
CES21 = 86	CES46 = 83	CES71 = 49	CES96 = 76
CES22 = 78	CES47 = 86	CES72 = 83	CES97 = 84
CES23 = 92	CES48 = 77	CES73 = 46	CES98 = 75
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 62
CES25 = 72	CES50 = 87	CES75 = 52	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)