

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: P1461699

Luminaire Tested: USSL-110-727-U-T3RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461699
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-727-U-T3RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 110W 70CRI 2700K FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10751.9 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

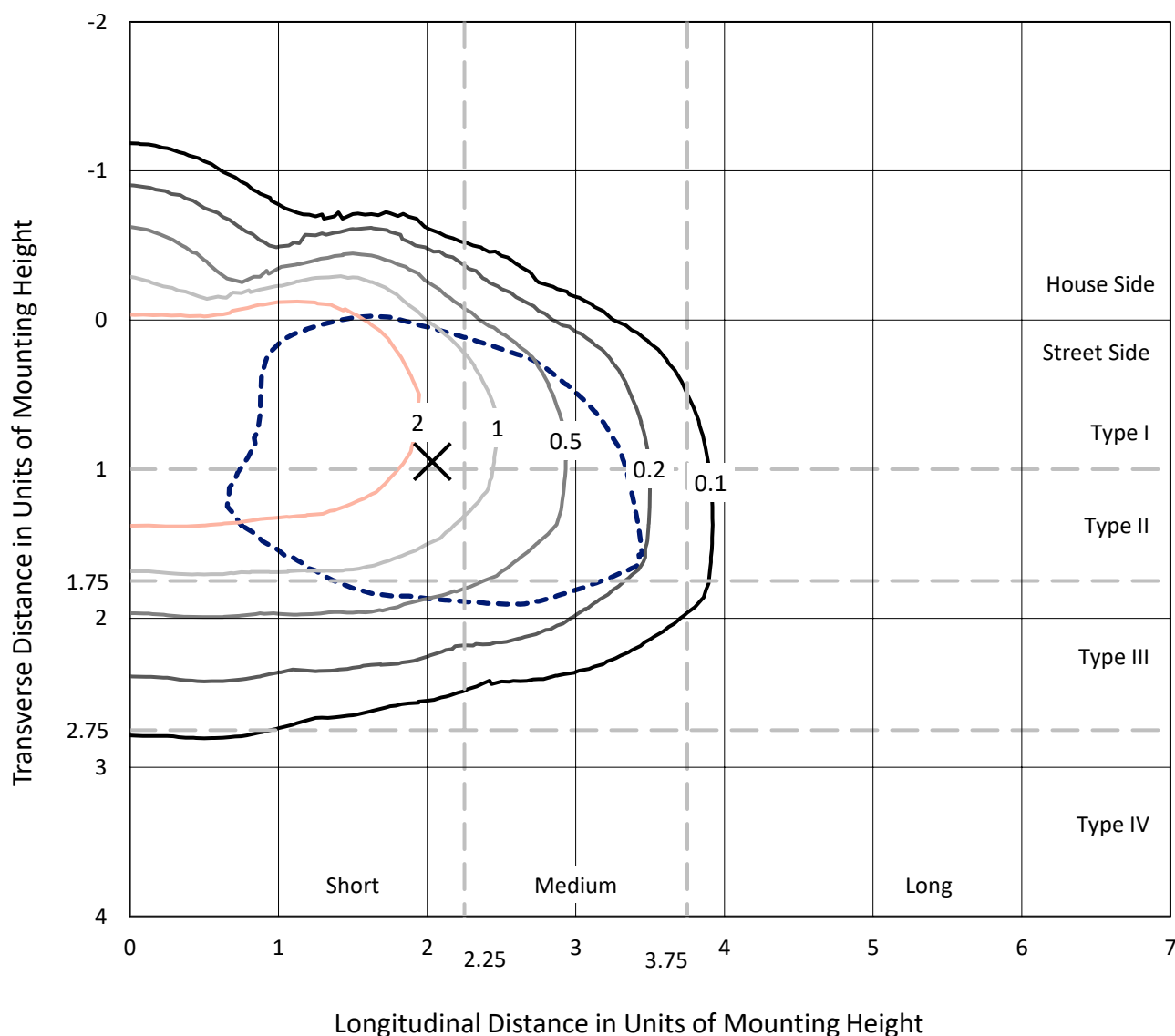
Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

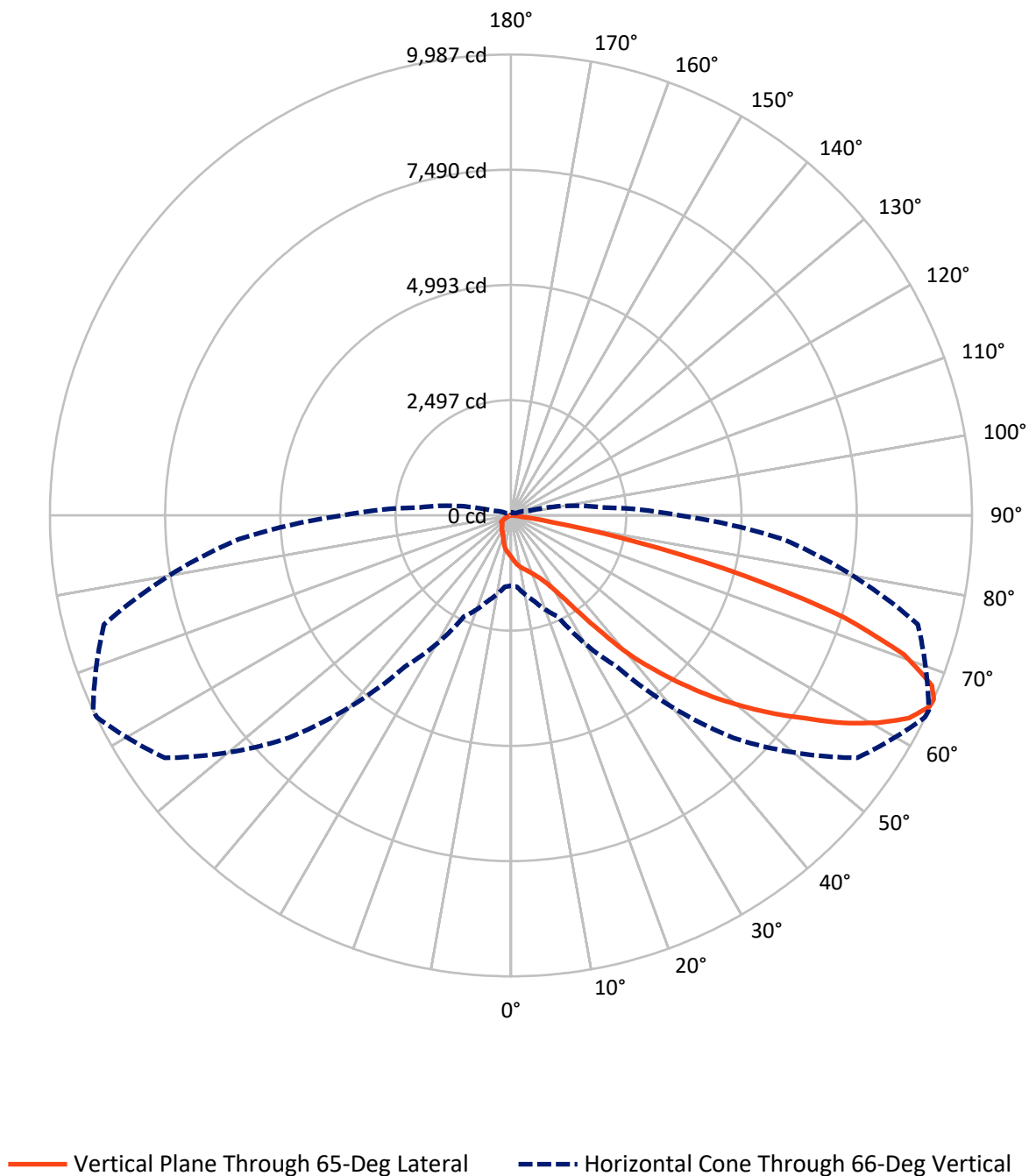


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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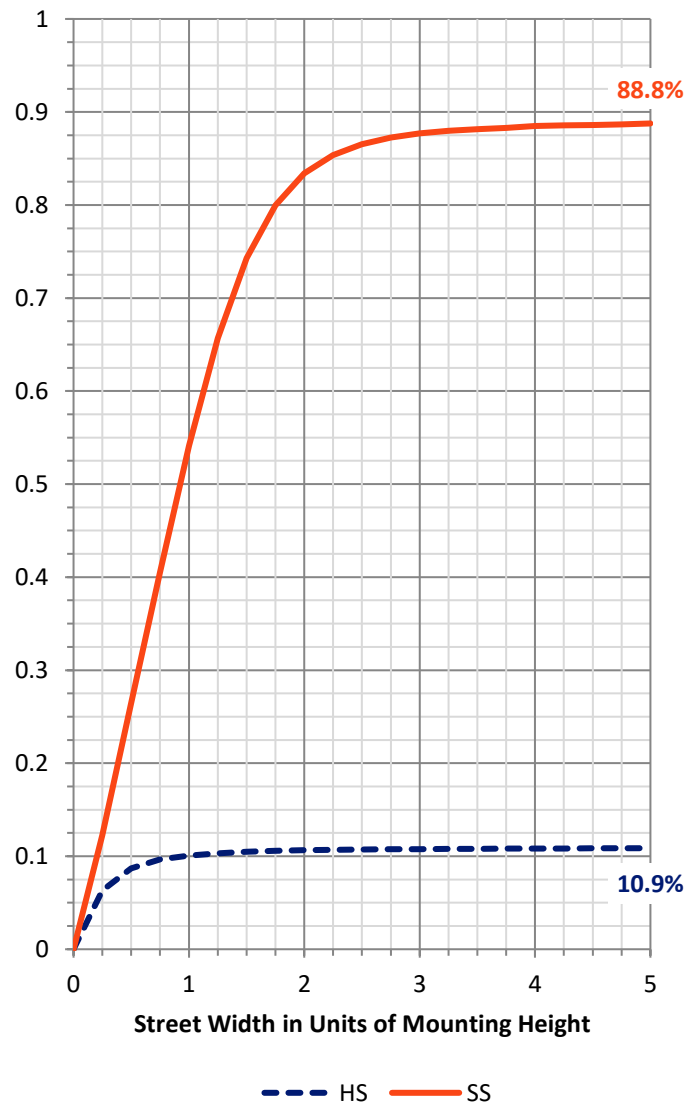
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.8	0.0	1178.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	9573.1	0.0	9573.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	10751.9	0.0	10751.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	0.8
10°-20°	251.1	2.3
20°-30°	457.6	4.3
30°-40°	908.1	8.4
40°-50°	1884.3	17.5
50°-60°	2935.9	27.3
60°-70°	2989.9	27.8
70°-80°	1161.1	10.8
80°-90°	78.8	0.7
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°	10751.9	100.0
0°-180°	10751.9	100.0

Coefficient of Utilization



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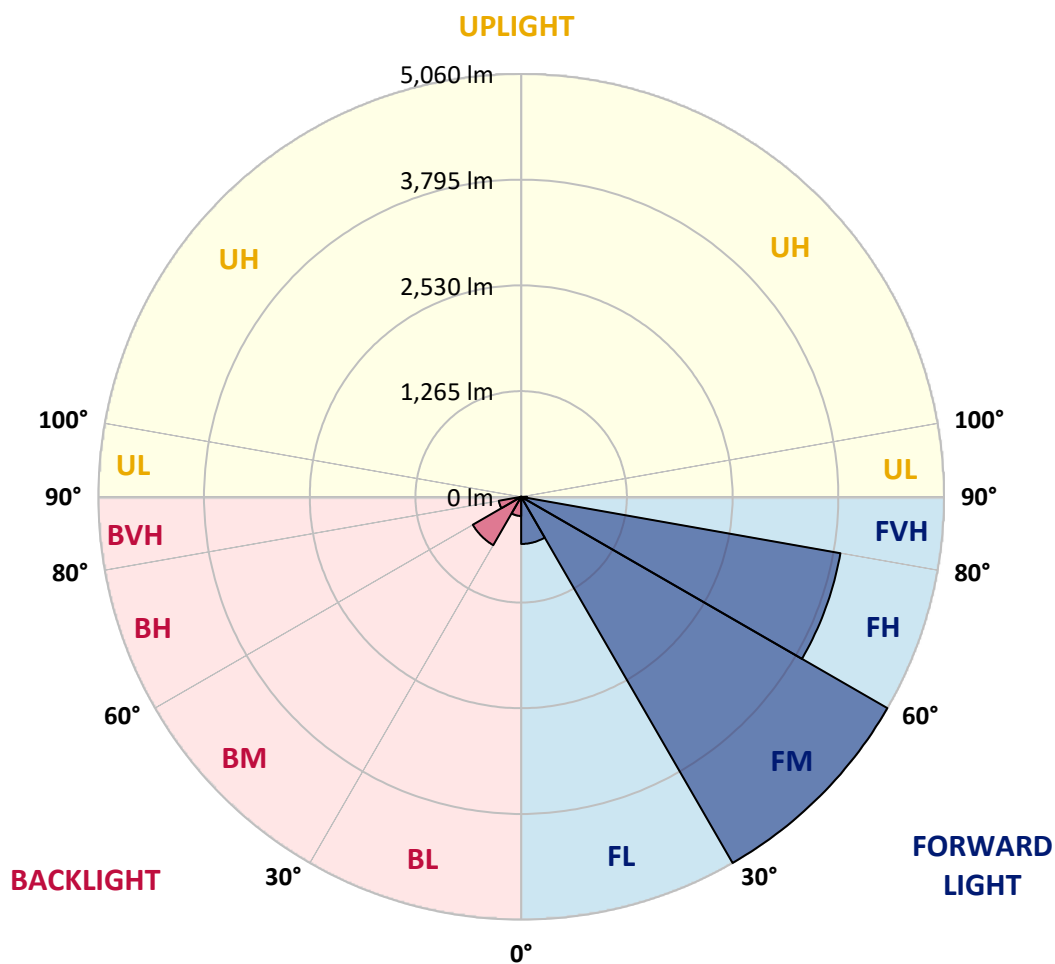
CATALOG NUMBER: USSL-110-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.2	5.2			
FM	(30°-60°)	5059.7	47.1			
FH	(60°-80°)	3879.2	36.1			G2/5000
FVH	(80°-90°)	70.1	0.7			G1/100
BL	(0°-30°)	229.6	2.1	B1/500		
BM	(30°-60°)	668.6	6.2	B1/1000		
BH	(60°-80°)	271.8	2.5	B1/500		G1/500
BVH	(80°-90°)	8.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0
2.5°	1039.3	1035.7	1032.1	1025.5	1011.6	999.3	978.1	957.7	959.2	932.9	910.3
5°	1108.6	1104.9	1104.2	1102.0	1096.2	1082.3	1059.0	1028.4	1026.2	979.6	929.3
7.5°	1122.4	1120.2	1121.0	1120.2	1122.4	1120.2	1115.9	1085.3	1086.7	1032.8	954.1
10°	1137.7	1132.6	1137.0	1140.7	1144.3	1147.9	1145.8	1135.6	1137.7	1084.5	986.9
12.5°	1157.4	1153.0	1158.9	1165.4	1173.5	1180.7	1183.7	1174.9	1182.2	1145.0	1029.1
15°	1177.1	1173.5	1182.2	1193.9	1209.2	1220.8	1225.2	1222.3	1226.7	1207.0	1076.5
17.5°	1200.4	1196.8	1209.2	1228.1	1248.5	1269.7	1278.4	1277.0	1282.8	1274.0	1129.7
20°	1230.3	1226.7	1244.2	1271.1	1303.2	1329.4	1346.9	1341.8	1347.7	1346.9	1199.0
22.5°	1281.3	1277.7	1295.9	1326.5	1370.2	1406.0	1427.1	1422.0	1429.3	1428.6	1272.6
25°	1361.5	1358.6	1381.2	1411.8	1451.1	1502.2	1530.6	1523.3	1529.9	1529.1	1371.0
27.5°	1476.7	1475.9	1484.7	1514.6	1559.7	1619.5	1668.3	1658.1	1669.8	1672.0	1489.8
30°	1645.8	1632.6	1623.2	1640.6	1688.8	1776.9	1848.4	1864.4	1878.3	1889.9	1683.7
32.5°	1930.7	1895.7	1865.1	1819.2	1840.4	1959.2	2097.6	2177.8	2184.4	2244.9	1975.2
35°	2311.2	2274.8	2200.4	2118.8	2081.6	2194.6	2438.7	2634.1	2654.5	2783.5	2402.3
37.5°	2720.8	2701.9	2595.4	2494.9	2431.5	2520.4	2852.7	3257.2	3250.7	3417.6	2892.8
40°	3240.5	3228.8	3117.3	2951.9	2814.1	2899.4	3347.6	3890.6	3980.3	4052.4	3450.4
42.5°	3637.7	3603.5	3543.0	3478.1	3308.3	3314.8	3866.6	4530.6	4586.7	4696.0	3995.6
45°	3882.6	3866.6	3905.2	3945.3	3867.3	3805.3	4445.3	5174.9	5214.9	5363.6	4530.6
47.5°	4095.4	4094.0	4145.0	4304.6	4344.0	4384.1	5091.0	5803.1	5870.2	6032.0	5018.9
50°	4209.9	4222.3	4357.8	4584.5	4750.7	4968.6	5787.8	6458.4	6489.0	6633.3	5489.7
52.5°	4137.0	4157.4	4431.4	4789.3	5072.1	5525.4	6478.8	7098.3	7134.0	7228.0	5897.2
55°	3857.8	3870.2	4268.2	4841.8	5350.5	6154.4	7169.0	7724.4	7763.0	7791.4	6312.6
57.5°	3333.0	3370.2	3905.9	4638.4	5546.6	6698.2	7881.1	8436.5	8482.4	8355.6	6661.7
60°	2846.9	2881.9	3422.7	4169.0	5489.7	7166.1	8561.8	9112.1	9121.6	8856.3	6769.6
62.5°	2258.0	2306.8	2840.3	3528.4	5117.3	7398.6	9037.1	9653.7	9672.6	9176.3	6587.4
65°	1661.8	1715.0	2166.9	2728.8	4383.3	7156.6	9232.4	9965.6	9970.7	9203.2	6159.5
66°	1521.8	1553.9	1915.4	2421.3	3994.8	6819.9	9157.3	9976.6	9986.8	9125.3	5915.4
67.5°	1367.3	1392.8	1674.2	1956.2	3306.1	6112.9	8722.9	9816.9	9834.4	8801.6	5533.5
70°	1068.5	1093.3	1301.0	1443.1	2269.7	4290.0	7448.2	8960.5	9030.5	7781.2	4701.8
72.5°	723.8	742.7	855.7	924.2	1363.0	2388.5	5580.8	7429.9	7534.9	6021.8	3459.1
75°	438.0	446.8	469.4	516.8	681.5	1146.5	3332.3	5153.7	5233.9	3822.8	2050.3
77.5°	319.2	316.3	323.6	322.9	338.9	448.2	1575.1	2788.6	2798.8	1690.9	865.1
80°	251.5	238.3	242.0	242.0	226.7	207.0	492.7	854.2	946.1	491.2	255.8
82.5°	200.4	191.0	193.1	188.8	166.9	137.8	154.5	222.3	222.3	146.5	87.5
85°	143.6	134.1	139.2	140.7	106.4	100.6	88.9	99.9	100.6	78.7	67.1
87.5°	71.4	72.2	77.3	85.3	70.0	56.9	47.4	48.1	49.6	43.7	38.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0
2.5°	897.9	887.0	866.6	850.6	830.9	817.0	804.7	793.7	791.5	787.2	782.8
5°	905.2	884.1	845.5	809.8	774.0	744.2	717.9	695.3	683.7	669.1	667.6
7.5°	916.9	886.3	828.0	772.6	713.5	660.3	613.0	586.0	566.3	559.0	556.1
10°	936.6	894.3	814.9	726.7	634.8	566.3	529.1	505.1	496.3	494.9	494.9
12.5°	964.3	909.6	799.6	672.0	564.1	502.2	477.4	475.2	475.2	475.9	474.5
15°	997.1	930.0	776.2	612.2	504.4	465.7	459.9	458.4	457.7	458.4	459.2
17.5°	1032.1	949.7	747.1	553.9	462.8	449.0	444.6	442.4	443.1	443.9	442.4
20°	1077.2	975.2	707.7	498.5	443.9	433.7	428.6	427.1	427.1	427.8	427.8
22.5°	1128.3	1000.0	660.3	458.4	428.6	418.4	411.8	408.2	408.2	410.3	410.3
25°	1192.4	1028.4	610.1	428.6	411.1	400.9	390.7	385.6	387.0	388.5	387.0
27.5°	1271.1	1066.3	557.6	407.4	392.1	380.5	366.6	360.8	361.5	367.3	367.3
30°	1404.5	1122.4	510.2	387.0	370.3	355.0	339.6	334.5	336.7	344.7	347.7
32.5°	1599.8	1220.1	470.1	365.9	345.5	323.6	308.3	302.5	309.8	322.9	323.6
35°	1930.0	1402.3	446.1	342.6	316.3	292.3	272.6	266.0	276.2	287.2	289.4
37.5°	2317.8	1659.6	454.1	321.4	289.4	262.4	241.3	234.0	237.6	248.5	248.5
40°	2752.9	1965.0	511.7	301.7	264.6	235.4	214.3	207.0	208.5	211.4	214.3
42.5°	3153.8	2283.5	610.8	283.5	242.7	210.6	193.1	185.1	185.9	186.6	186.6
45°	3596.2	2611.5	729.6	269.7	222.3	191.0	173.5	169.8	169.8	170.6	171.3
47.5°	3982.5	2916.1	859.3	261.7	203.4	172.0	158.2	156.7	156.7	158.2	158.9
50°	4354.9	3207.0	991.2	256.6	185.1	156.0	145.0	143.6	145.0	147.2	148.0
52.5°	4681.4	3486.1	1139.2	254.4	169.1	142.9	133.4	131.2	131.9	134.1	134.8
55°	4992.6	3762.3	1309.8	253.6	152.3	129.7	121.0	118.1	118.8	120.3	119.5
57.5°	5233.9	3895.0	1411.8	233.2	138.5	117.3	108.6	103.5	105.0	105.0	106.4
60°	5193.1	3739.7	1296.6	190.2	123.9	103.5	95.5	90.4	92.6	92.6	94.0
62.5°	4709.1	3122.4	924.9	151.6	108.6	91.1	83.8	80.2	81.6	82.4	81.6
65°	3965.0	2290.8	492.7	122.4	92.6	78.7	73.6	70.0	71.4	70.7	70.7
66°	3642.8	1978.1	373.9	114.4	86.0	75.1	70.0	67.1	67.1	66.3	65.6
67.5°	3158.9	1583.1	237.6	102.0	77.3	70.7	64.9	61.2	60.5	59.8	59.8
70°	2348.4	1051.0	131.9	80.2	65.6	61.2	56.9	52.5	51.0	50.3	51.0
72.5°	1688.0	689.5	88.9	62.0	56.1	53.9	48.8	43.7	43.0	43.7	43.7
75°	992.7	373.2	65.6	45.9	45.9	45.9	41.5	36.4	36.4	40.1	40.1
77.5°	464.3	176.4	49.6	37.2	37.2	39.4	34.3	30.6	32.8	37.2	37.9
80°	176.4	80.2	34.3	29.2	29.2	32.8	27.0	27.0	28.4	29.9	27.7
82.5°	75.1	44.5	24.1	21.9	22.6	24.8	21.1	21.9	22.6	13.8	16.0
85°	59.0	26.2	13.1	12.4	13.1	14.6	11.7	13.1	10.9	3.6	7.3
87.5°	31.3	12.4	6.6	5.8	5.1	5.1	4.4	5.8	5.1	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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP2-2501-321-3

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-727-U-T4W

Data in this report applies to families of products including GKO-PB1E-727-U-T4W

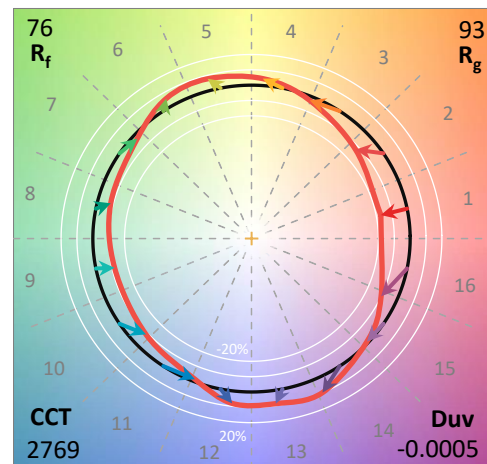
Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-3
 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-727-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 2769
 CIE u' : 0.2596
 CIE v' : 0.5253
 Duv: -0.0005
 CIE x: 0.4535
 CIE y: 0.4078
 CIE z: 0.1387
 Peak Wavelength (nm): 597
 Dominant Wavelength (nm): 584
 Purity: 58.54014
 R_f: 75.7
 R_g: 93.2

CRI (Ra): 71.7
 R1: 68.0
 R2: 84.0
 R3: 94.6
 R4: 65.9
 R5: 67.3
 R6: 78.7
 R7: 75.2
 R8: 39.8
 R9: -34.5
 R10: 64.3
 R11: 60.9
 R12: 54.4
 R13: 71.2
 R14: 97.6
 R15: 59.5



Test Conditions

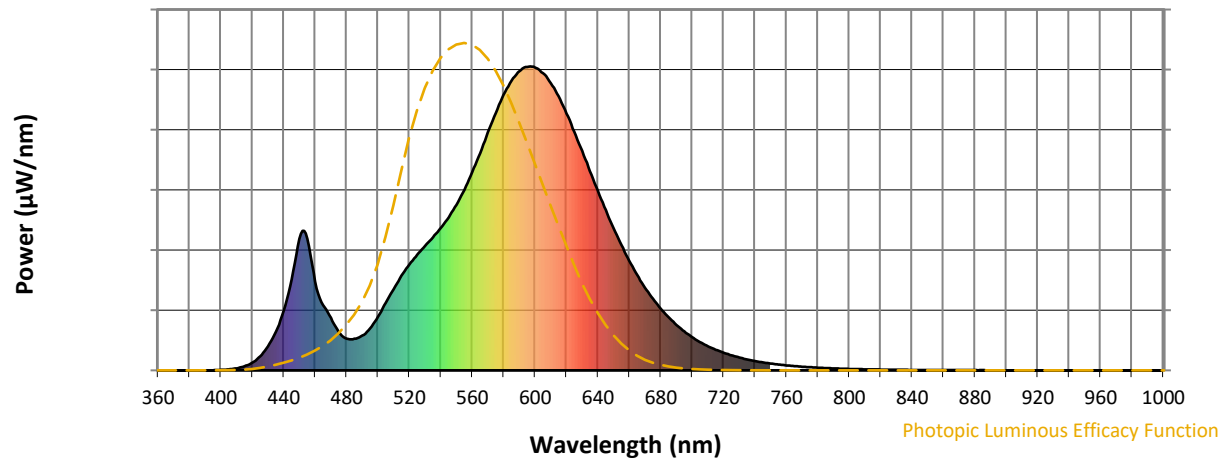
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP2-2501-321-3

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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Photopic Flux vs. Wavelength

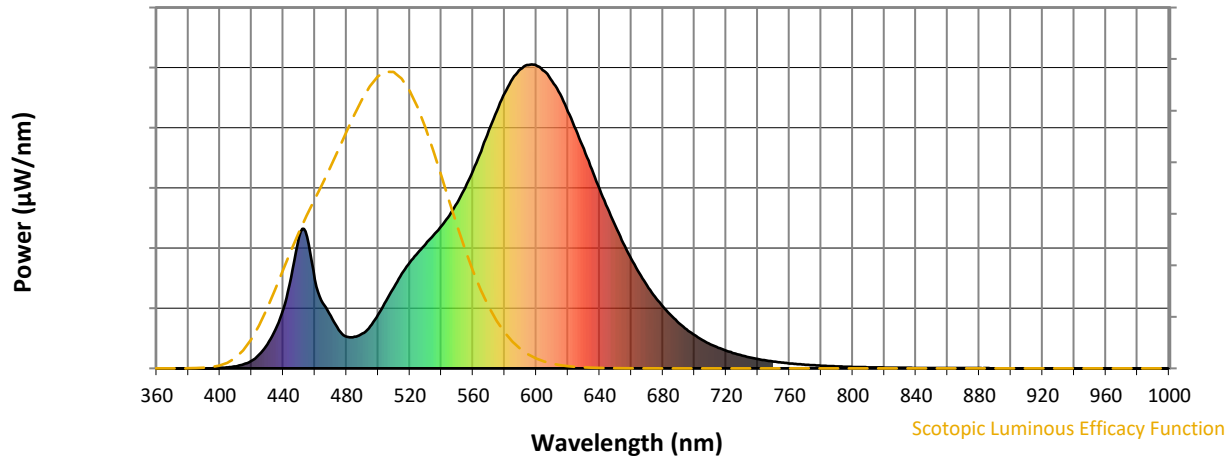


Photopic Lumens: NR

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	114	NR	620	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	NR	630	722	NR	760	16	NR	890	1	NR
375	0	NR	505	222	NR	635	655	NR	765	14	NR	895	0	NR
380	0	NR	510	268	NR	640	591	NR	770	12	NR	900	0	NR
385	0	NR	515	311	NR	645	527	NR	775	10	NR	905	0	NR
390	0	NR	520	348	NR	650	467	NR	780	9	NR	910	0	NR
395	0	NR	525	381	NR	655	412	NR	785	8	NR	915	0	NR
400	2	NR	530	410	NR	660	360	NR	790	7	NR	920	0	NR
405	4	NR	535	438	NR	665	314	NR	795	6	NR	925	0	NR
410	7	NR	540	469	NR	670	272	NR	800	5	NR	930	0	NR
415	13	NR	545	503	NR	675	236	NR	805	4	NR	935	0	NR
420	25	NR	550	544	NR	680	203	NR	810	4	NR	940	0	NR
425	46	NR	555	594	NR	685	175	NR	815	3	NR	945	0	NR
430	79	NR	560	652	NR	690	149	NR	820	3	NR	950	0	NR
435	128	NR	565	714	NR	695	128	NR	825	2	NR	955	0	NR
440	196	NR	570	783	NR	700	109	NR	830	2	NR	960	0	NR
445	299	NR	575	847	NR	705	93	NR	835	2	NR	965	0	NR
450	433	NR	580	906	NR	710	80	NR	840	2	NR	970	0	NR
455	433	NR	585	953	NR	715	68	NR	845	1	NR	975	0	NR
460	293	NR	590	985	NR	720	58	NR	850	1	NR	980	0	NR
465	215	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	173	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	127	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	104	NR	610	945	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	902	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



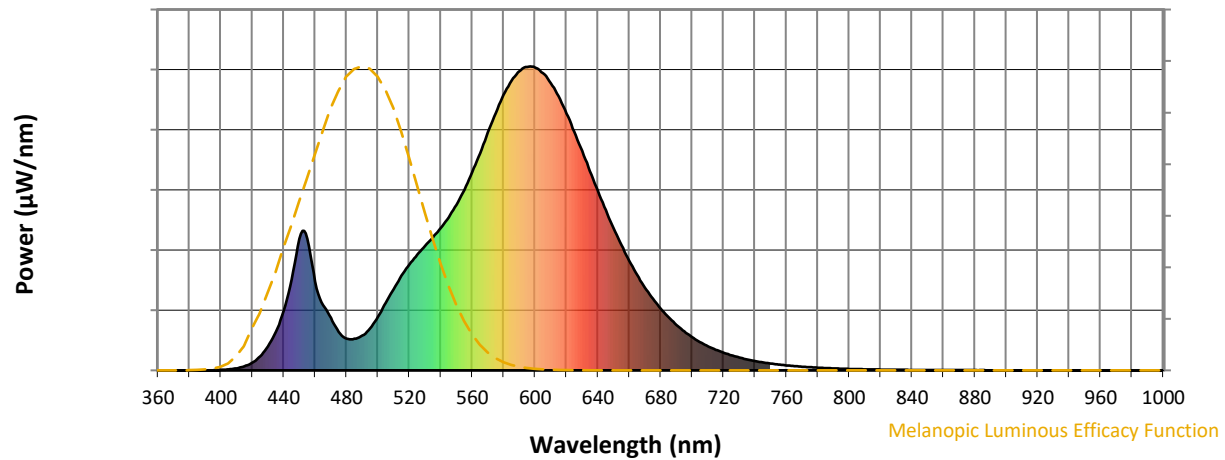
Scotopic Lumens: NR

S/P: 1.14

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)
360	0	NR	490	114	NR	620	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	NR	630	722	NR	760	16	NR	890	1	NR
375	0	NR	505	222	NR	635	655	NR	765	14	NR	895	0	NR
380	0	NR	510	268	NR	640	591	NR	770	12	NR	900	0	NR
385	0	NR	515	311	NR	645	527	NR	775	10	NR	905	0	NR
390	0	NR	520	348	NR	650	467	NR	780	9	NR	910	0	NR
395	0	NR	525	381	NR	655	412	NR	785	8	NR	915	0	NR
400	2	NR	530	410	NR	660	360	NR	790	7	NR	920	0	NR
405	4	NR	535	438	NR	665	314	NR	795	6	NR	925	0	NR
410	7	NR	540	469	NR	670	272	NR	800	5	NR	930	0	NR
415	13	NR	545	503	NR	675	236	NR	805	4	NR	935	0	NR
420	25	NR	550	544	NR	680	203	NR	810	4	NR	940	0	NR
425	46	NR	555	594	NR	685	175	NR	815	3	NR	945	0	NR
430	79	NR	560	652	NR	690	149	NR	820	3	NR	950	0	NR
435	128	NR	565	714	NR	695	128	NR	825	2	NR	955	0	NR
440	196	NR	570	783	NR	700	109	NR	830	2	NR	960	0	NR
445	299	NR	575	847	NR	705	93	NR	835	2	NR	965	0	NR
450	433	NR	580	906	NR	710	80	NR	840	2	NR	970	0	NR
455	433	NR	585	953	NR	715	68	NR	845	1	NR	975	0	NR
460	293	NR	590	985	NR	720	58	NR	850	1	NR	980	0	NR
465	215	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	173	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	127	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	104	NR	610	945	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	902	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.08

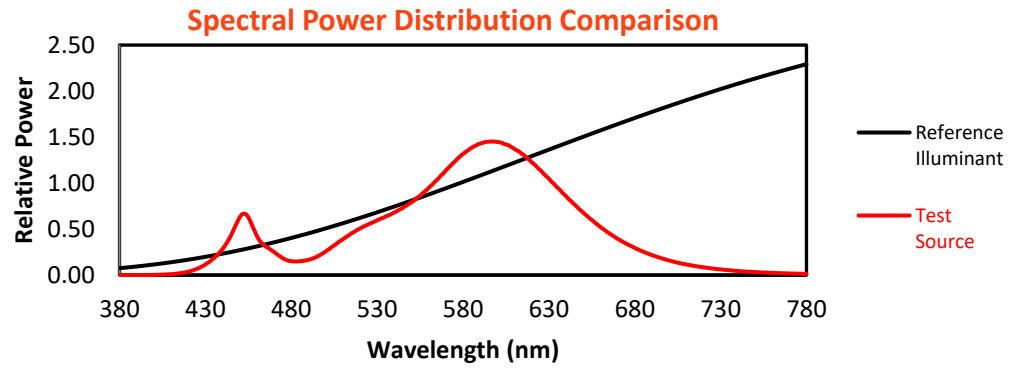
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	114	NR	620	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	NR	630	722	NR	760	16	NR	890	1	NR
375	0	NR	505	222	NR	635	655	NR	765	14	NR	895	0	NR
380	0	NR	510	268	NR	640	591	NR	770	12	NR	900	0	NR
385	0	NR	515	311	NR	645	527	NR	775	10	NR	905	0	NR
390	0	NR	520	348	NR	650	467	NR	780	9	NR	910	0	NR
395	0	NR	525	381	NR	655	412	NR	785	8	NR	915	0	NR
400	2	NR	530	410	NR	660	360	NR	790	7	NR	920	0	NR
405	4	NR	535	438	NR	665	314	NR	795	6	NR	925	0	NR
410	7	NR	540	469	NR	670	272	NR	800	5	NR	930	0	NR
415	13	NR	545	503	NR	675	236	NR	805	4	NR	935	0	NR
420	25	NR	550	544	NR	680	203	NR	810	4	NR	940	0	NR
425	46	NR	555	594	NR	685	175	NR	815	3	NR	945	0	NR
430	79	NR	560	652	NR	690	149	NR	820	3	NR	950	0	NR
435	128	NR	565	714	NR	695	128	NR	825	2	NR	955	0	NR
440	196	NR	570	783	NR	700	109	NR	830	2	NR	960	0	NR
445	299	NR	575	847	NR	705	93	NR	835	2	NR	965	0	NR
450	433	NR	580	906	NR	710	80	NR	840	2	NR	970	0	NR
455	433	NR	585	953	NR	715	68	NR	845	1	NR	975	0	NR
460	293	NR	590	985	NR	720	58	NR	850	1	NR	980	0	NR
465	215	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	173	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	127	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	104	NR	610	945	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	902	NR	745	26	NR	875	1	NR			

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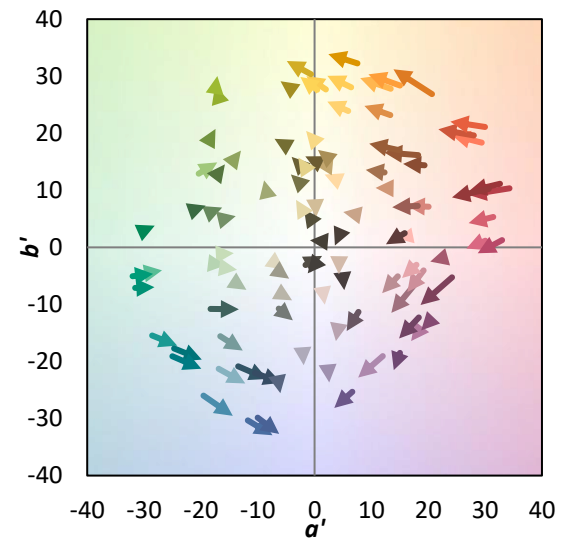
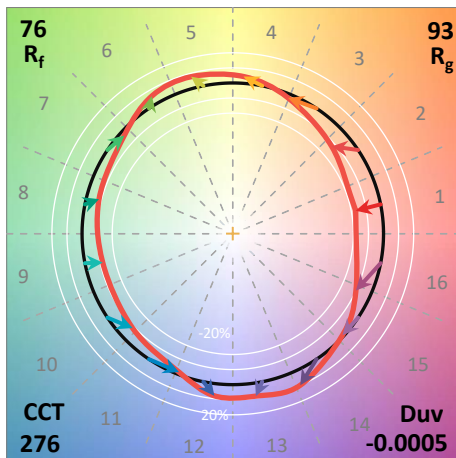
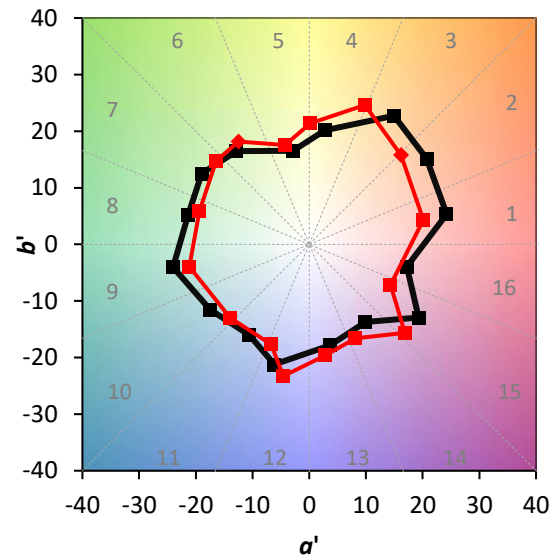
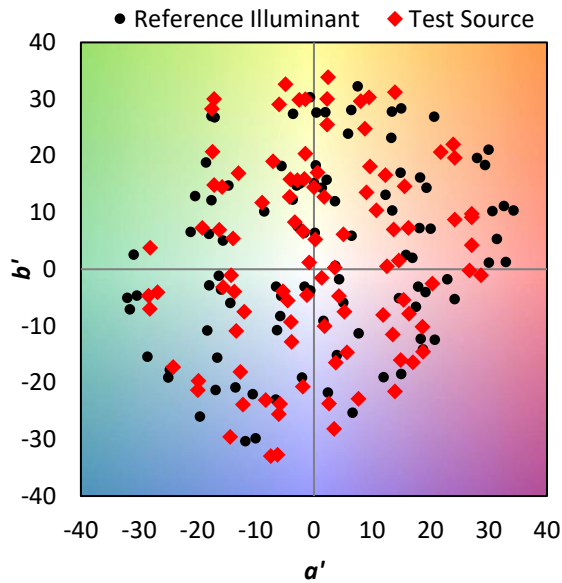
TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.2$
 $CIE R_a = 71.7$
 $R_g = -34.5$

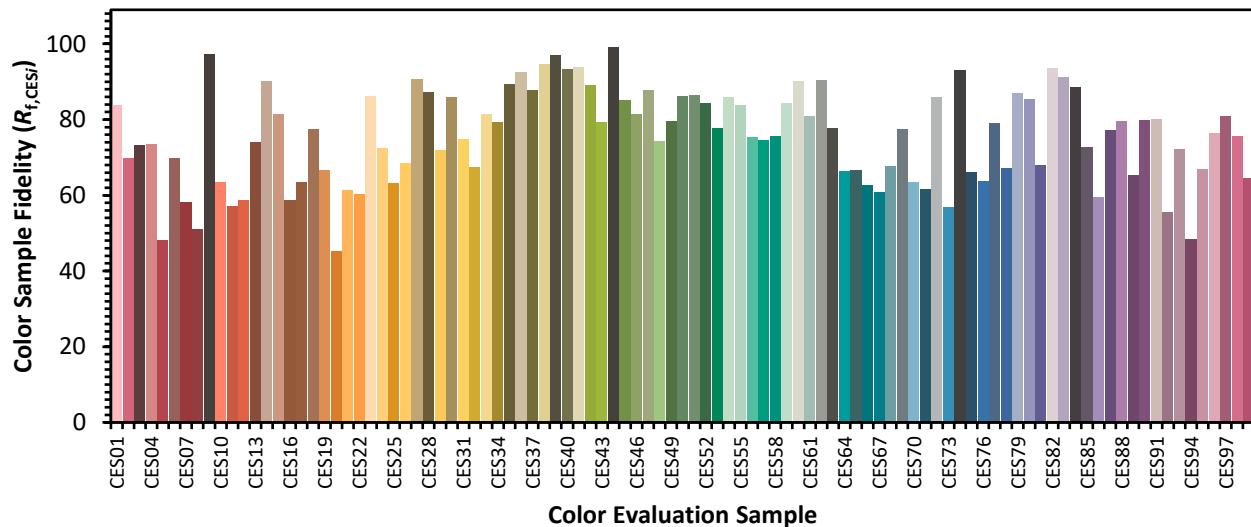


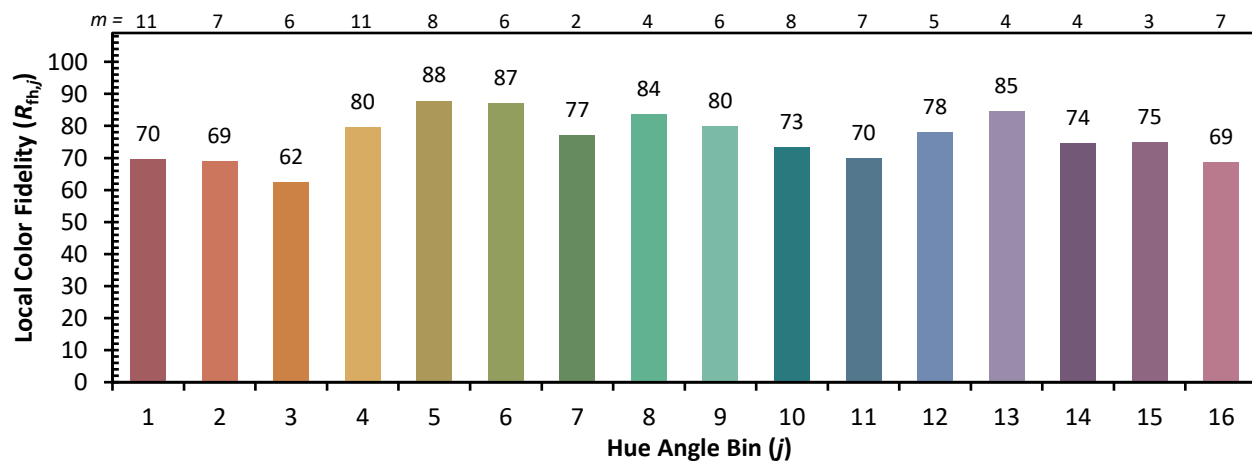
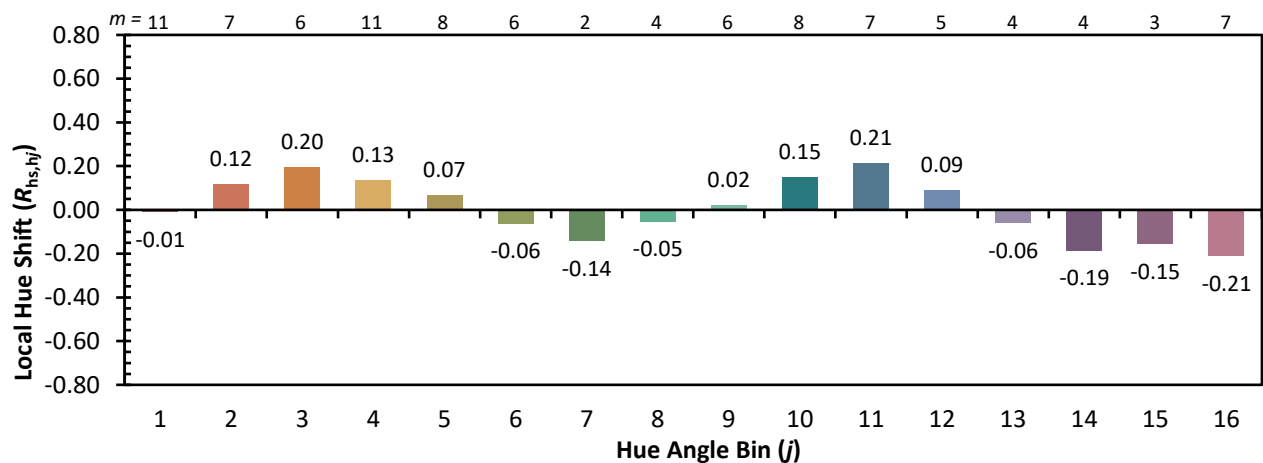
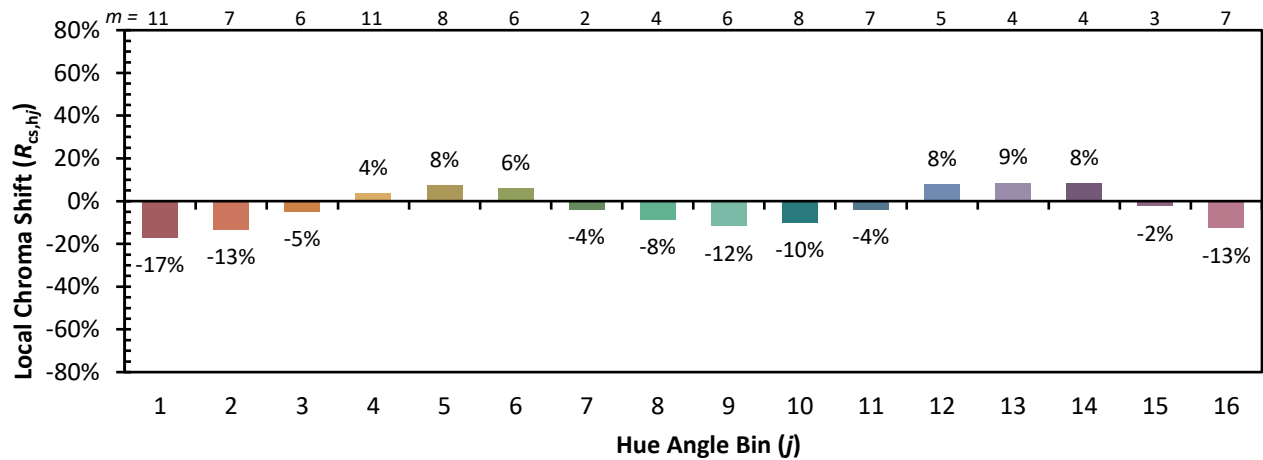
Color Vector Graphics

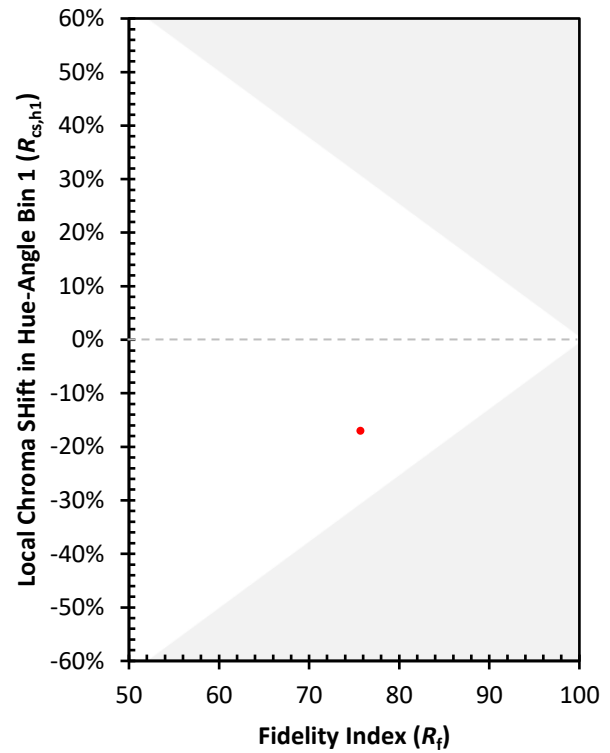
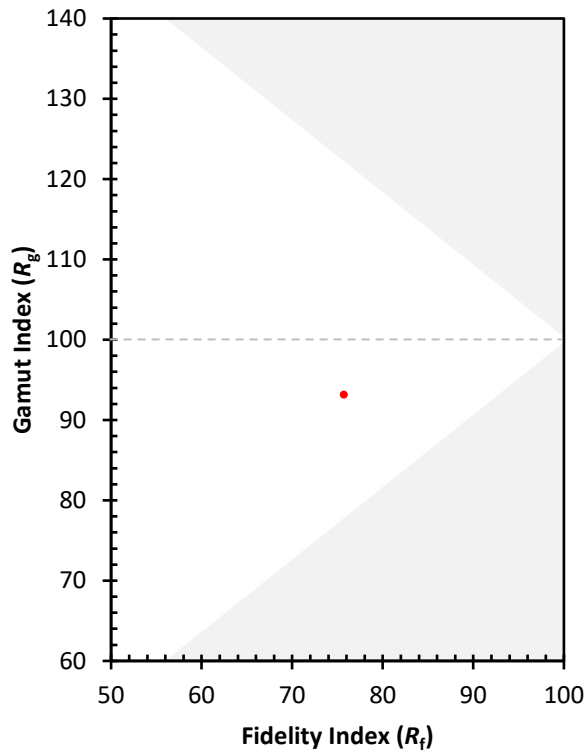


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 68	CES51 = 87	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 84	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 78	CES78 = 67
CES04 = 71	CES29 = 72	CES54 = 86	CES79 = 87
CES05 = 50	CES30 = 86	CES55 = 84	CES80 = 85
CES06 = 52	CES31 = 75	CES56 = 75	CES81 = 68
CES07 = 42	CES32 = 67	CES57 = 74	CES82 = 94
CES08 = 41	CES33 = 81	CES58 = 76	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 90	CES85 = 73
CES11 = 60	CES36 = 92	CES61 = 81	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 90	CES87 = 77
CES13 = 43	CES38 = 95	CES63 = 78	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 65
CES15 = 72	CES40 = 93	CES65 = 67	CES90 = 80
CES16 = 48	CES41 = 94	CES66 = 63	CES91 = 80
CES17 = 50	CES42 = 89	CES67 = 61	CES92 = 55
CES18 = 57	CES43 = 79	CES68 = 68	CES93 = 72
CES19 = 73	CES44 = 99	CES69 = 77	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 62	CES96 = 76
CES22 = 80	CES47 = 88	CES72 = 86	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 57	CES98 = 76
CES24 = 91	CES49 = 80	CES74 = 93	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)