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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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: P1457481

Luminaire Tested: GLAN-SB9C-940-U-T4LG

Issue Date: 05/20/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1457481
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	5/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	STREETWORKS
Catalog Number:	GLAN-SB9C-940-U-T4LG
Description:	GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 615mA 9xLight Square PACKAGE 90CRI 4000K FIXTURE w/ TYPE IV LOW GLARE
Light Source:	(234) 4000K CCT, 90 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	48380 lumens
Efficiency:	N/A
Efficacy:	107.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B4 - U0 - G4

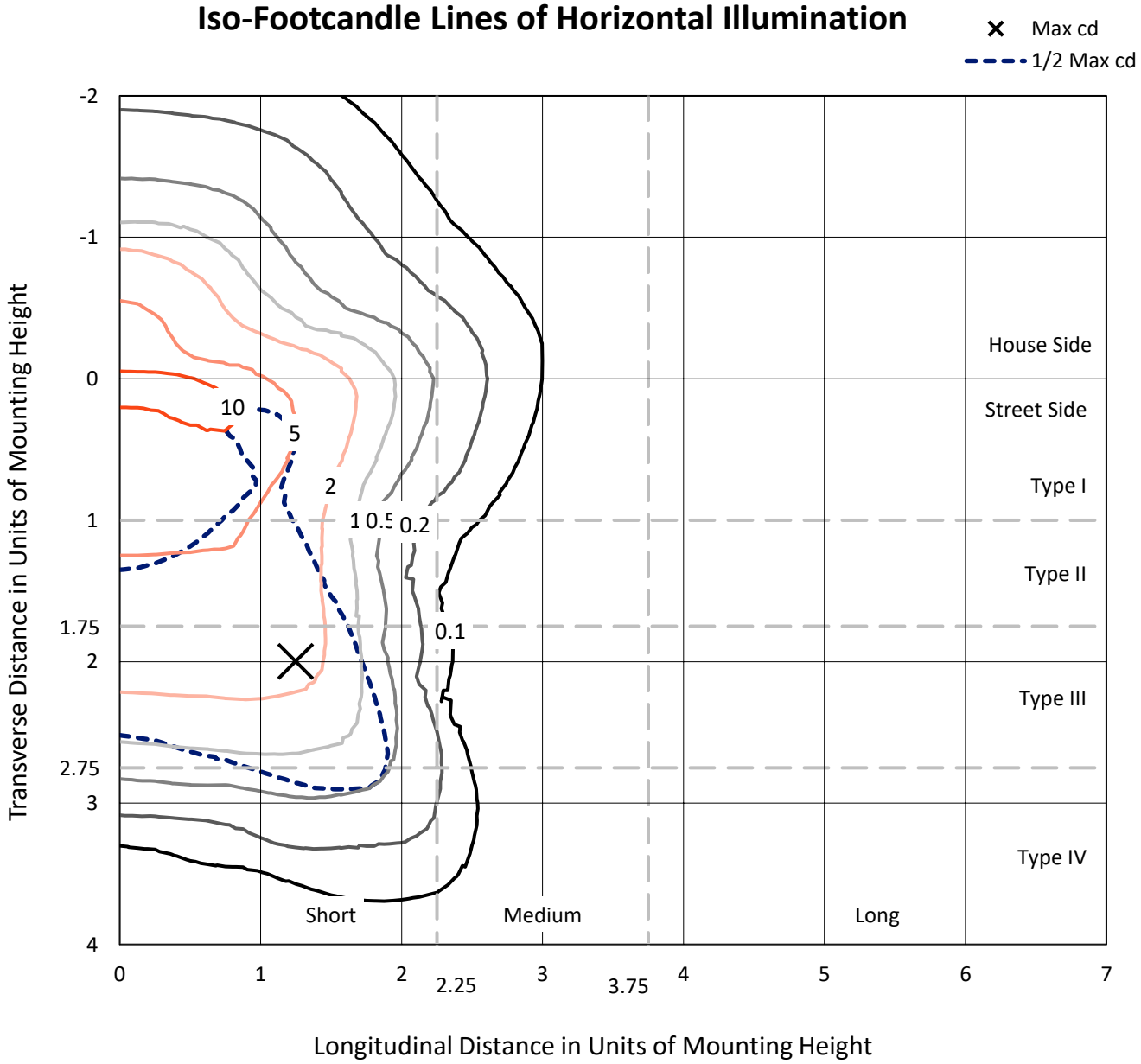
Input Watts (W):	449.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.97
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P1457481
CATALOG NUMBER: GLAN-SB9C-940-U-T4LG

Iso-Footcandle Lines of Horizontal Illumination



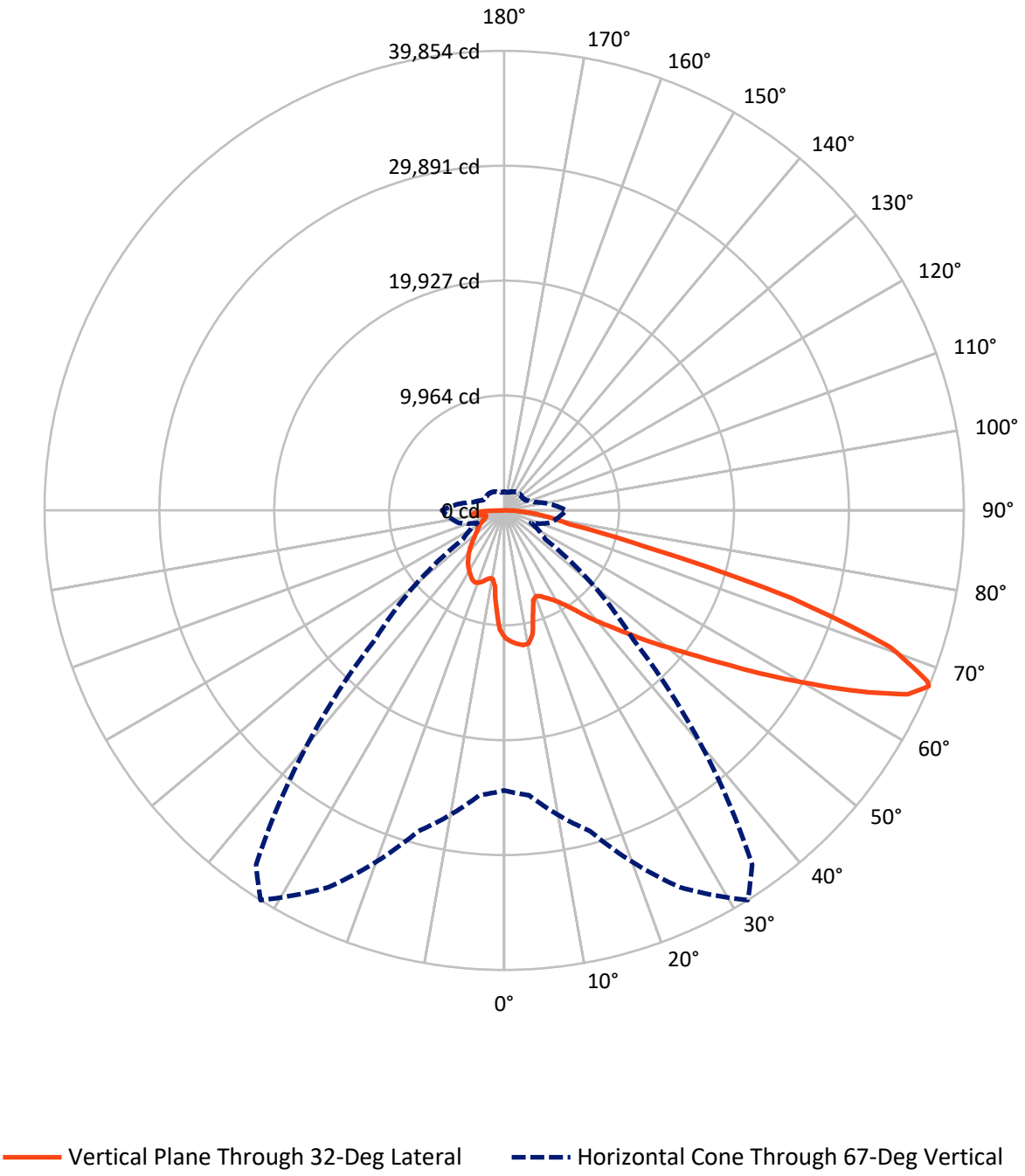
Based on 30 foot mounting height. Maximum calculated value = 13.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1457481
CATALOG NUMBER: GLAN-SB9C-940-U-T4LG

Luminous Intensity Polar Plot



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

Scaled Data Report

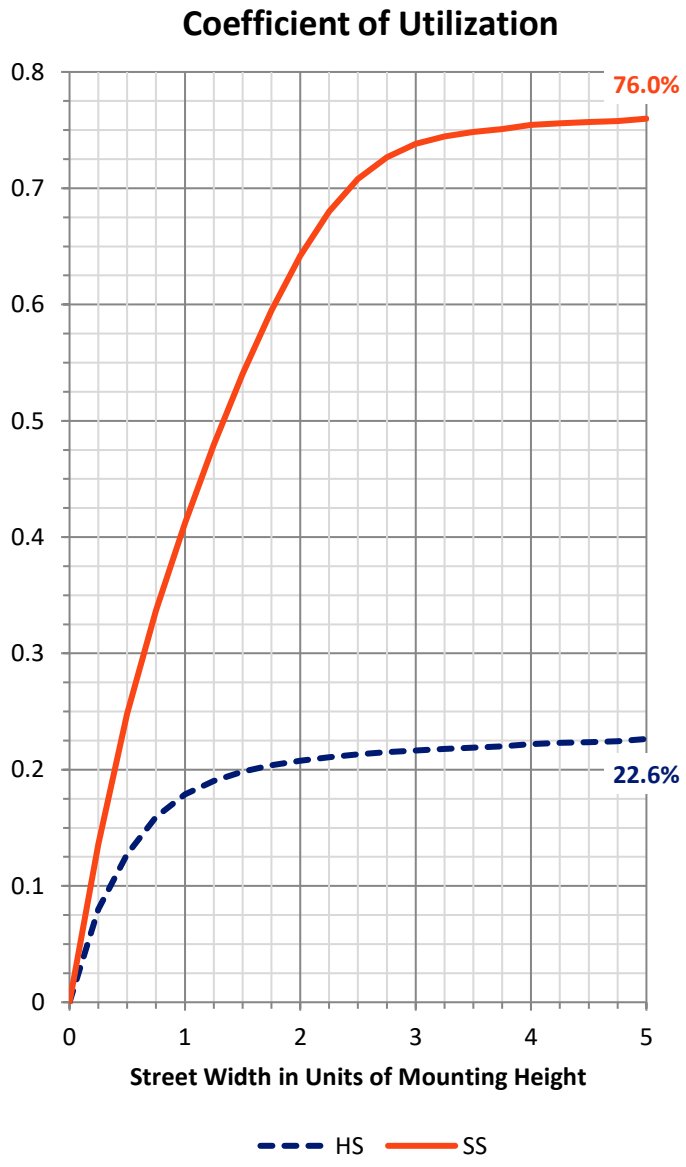
REPORT NUMBER: P1457481
CATALOG NUMBER: GLAN-SB9C-940-U-T4LG

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11453.8	0.0	11453.8
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	36926.2	0.0	36926.2
	% Fixture	76.3	0.0	76.3
Total	Lumens	48380.0	0.0	48380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.8	2.0
10°-20°	2564.4	5.3
20°-30°	4187.8	8.7
30°-40°	6172.4	12.8
40°-50°	8512.0	17.6
50°-60°	10753.2	22.2
60°-70°	10407.2	21.5
70°-80°	3714.3	7.7
80°-90°	1103.0	2.3
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°	48380.0	100.0
0°-180°	48380.0	100.0



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

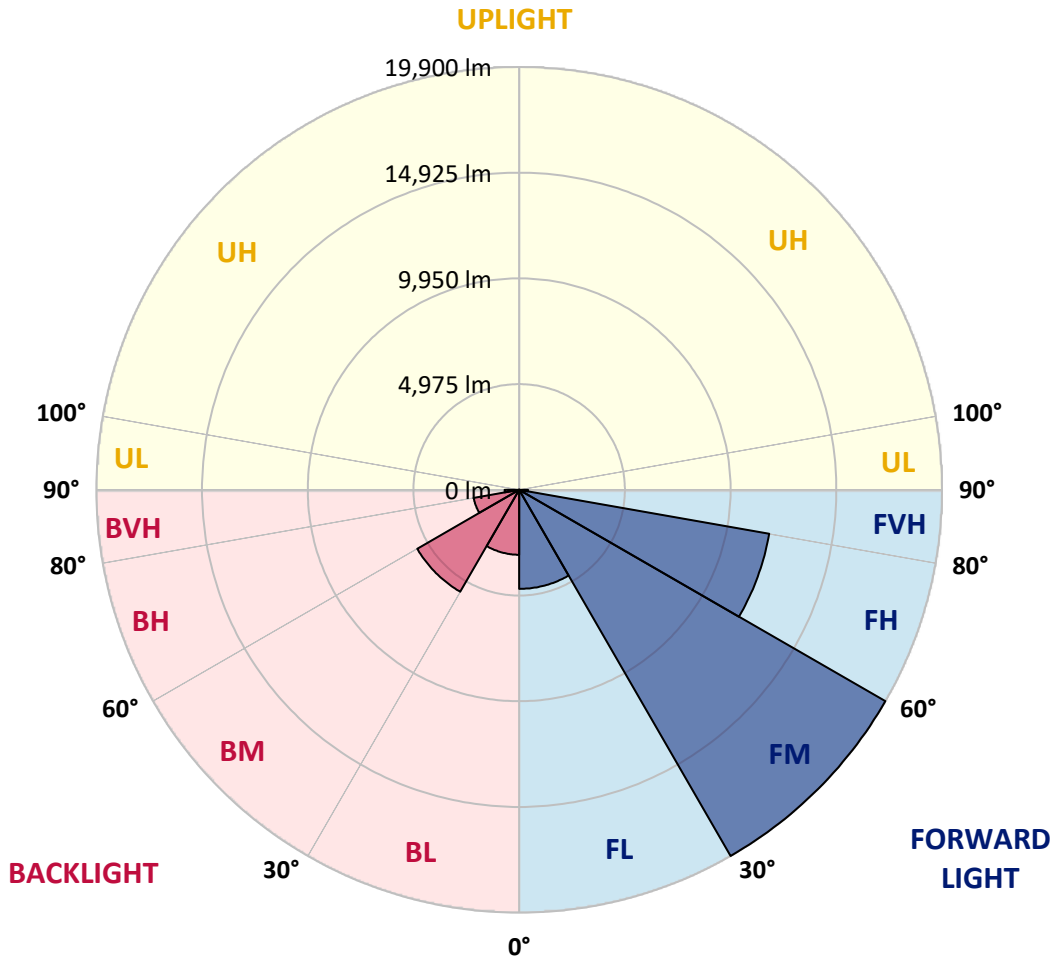
Scaled Data Report

REPORT NUMBER: P1457481
CATALOG NUMBER: GLAN-SB9C-940-U-T4LG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4661.5	9.6			
FM	(30°-60°)	19900.2	41.1			
FH	(60°-80°)	11948.9	24.7			G4/12000
FVH	(80°-90°)	415.6	0.9			G3/500
BL	(0°-30°)	3056.5	6.3	B4/5000		
BM	(30°-60°)	5537.4	11.4	B4/8500		
BH	(60°-80°)	2172.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	687.4	1.4			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1457481
CATALOG NUMBER: GLAN-SB9C-940-U-T4LG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	11053.9	11053.9	11053.9	11053.9	*11053.9*	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9
2.5°	11472.8	11440.6	11408.4	11429.9	*11386.9*	11376.1	11322.4	11300.9	11236.5	11225.7	11107.6
5°	11709.2	11644.7	11634.0	11655.4	*11612.5*	11612.5	11569.5	11537.3	11440.6	11386.9	11215.0
7.5°	11709.2	11698.4	11719.9	11795.1	*11805.8*	11805.8	11805.8	11816.6	11719.9	11644.7	11376.1
10°	11043.1	10935.7	11172.0	11548.0	*11730.6*	11838.1	12031.4	12149.6	12074.4	12020.7	11655.4
12.5°	9055.8	9066.5	9442.5	10248.2	*10978.7*	11290.2	12095.9	12525.6	12557.8	12471.9	12009.9
15°	7680.8	7734.5	7927.8	8507.9	*9345.8*	9807.8	11719.9	12858.6	13116.4	13030.5	12439.6
17.5°	7261.8	7294.1	7380.0	7713.0	*8185.7*	8561.6	10699.4	13073.4	13793.2	13685.7	12923.0
20°	7197.4	7218.9	7326.3	7605.6	*7927.8*	8142.7	9657.4	12901.6	14427.0	14384.0	13363.5
22.5°	7208.1	7229.6	7369.2	7756.0	*8089.0*	8271.6	9324.4	12504.1	15093.0	15136.0	13814.7
25°	7229.6	7240.3	7455.2	7970.8	*8389.8*	8615.4	9539.2	12149.6	15651.6	16016.8	14308.8
27.5°	7347.8	7380.0	7670.0	8250.1	*8744.3*	9002.1	10044.1	12267.8	16263.9	17015.9	14899.6
30°	7670.0	7691.5	8046.0	8647.6	*9184.7*	9453.3	10645.7	12740.4	17015.9	18047.1	15479.7
32.5°	8174.9	8196.4	8604.6	9227.7	*9807.8*	10130.0	11429.9	13642.8	17853.8	19132.1	16059.8
35°	8873.2	8883.9	9345.8	10011.9	*10624.2*	10989.4	12343.0	14663.3	18723.9	20056.0	16489.5
37.5°	9700.3	9775.5	10248.2	10946.4	*11666.2*	11999.2	13417.2	15855.7	19497.4	20840.1	16736.6
40°	10839.0	10860.5	11322.4	11999.2	*12761.9*	13084.2	14491.4	16983.6	20346.0	21302.1	16962.2
42.5°	12009.9	12192.6	12579.3	13331.2	*13900.6*	14158.4	15716.0	18014.9	21022.8	21323.6	16865.5
45°	13578.3	13718.0	14104.7	14770.7	*15340.1*	15640.9	17037.4	18960.2	21366.5	21140.9	16650.6
47.5°	15372.3	15458.2	15769.8	16371.3	*17005.1*	17220.0	18412.4	19497.4	21495.4	21012.0	16554.0
50°	17488.5	17488.5	17714.1	18229.8	*18809.8*	19110.6	19680.0	19819.6	21871.4	20786.4	16801.0
52.5°	19271.8	19357.7	19658.5	20389.0	*20969.1*	21312.8	20668.3	20313.8	21108.7	19529.6	16876.2
55°	20979.8	21076.5	21753.2	22666.3	*23654.6*	24030.6	21903.6	20066.7	18541.3	17692.6	16360.6
57.5°	22612.6	22816.7	23665.4	25448.6	*26941.8*	26909.6	23472.0	17853.8	15136.0	15662.3	15232.6
60°	24890.0	25104.9	26458.4	28703.5	*30529.7*	29767.0	23493.5	14856.7	11795.1	12504.1	13116.4
62.5°	26791.4	27156.6	29144.0	32882.3	*34558.1*	33365.7	21549.1	11376.1	7831.2	8722.8	10140.8
65°	26619.5	27102.9	30186.0	35954.6	*38457.6*	37351.1	18702.4	7197.4	4039.1	5962.0	7100.7
67°	*24277.7*	*24804.1*	*28800.2*	*36062.0*	*39854.1*	*37490.8*	*15791.2*	*4350.6*	*2567.4*	*4135.8*	*4930.7*
67.5°	22934.9	23708.4	28112.7	35857.9	*39596.3*	36899.9	14480.7	3641.7	2417.0	3845.8	4490.3
70°	14104.7	15350.8	21098.0	31700.7	*35492.7*	30884.2	8046.0	2062.5	1965.8	2578.2	3104.5
72.5°	4243.2	4619.2	8142.7	20335.3	*26050.2*	22891.9	3620.2	1589.9	1761.7	2073.3	2395.5
75°	2062.5	2202.2	3362.4	8314.6	*12686.7*	12622.3	2019.6	1364.3	1632.8	1740.3	1890.7
77.5°	1321.3	1407.2	2094.8	4651.4	*5811.6*	5177.8	1461.0	1192.4	1450.2	1428.7	1407.2
80°	827.2	870.1	1342.8	2696.3	*4286.2*	3577.2	1074.2	977.6	1246.1	1106.5	999.0
82.5°	537.1	590.8	859.4	1643.6	*3061.6*	2664.1	709.0	698.3	1031.3	880.9	773.4
85°	354.5	397.5	547.9	966.8	*1815.5*	1901.4	461.9	483.4	794.9	666.0	590.8
87.5°	128.9	161.1	279.3	429.7	*848.6*	1052.7	193.4	182.6	386.7	311.5	247.1
90°	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1457481
CATALOG NUMBER: GLAN-SB9C-940-U-T4LG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9	11053.9
2.5°	11086.1	11053.9	10903.5	10774.6	10677.9	10549.0	10409.3	10248.2	10140.8	10162.3	10130.0
5°	11139.8	11053.9	10763.8	10323.4	9893.7	9356.6	8669.1	8260.9	7949.3	7788.2	7831.2
7.5°	11258.0	11107.6	10495.3	9603.7	8486.5	7390.7	6714.0	6327.2	6144.6	6069.4	6058.7
10°	11462.1	11204.3	10151.5	8486.5	7025.5	6284.3	6037.2	5929.8	5908.3	5908.3	5897.5
12.5°	11709.2	11300.9	9571.4	7401.5	6327.2	6058.7	6015.7	6026.5	6058.7	6090.9	6037.2
15°	12009.9	11343.9	8851.7	6746.2	6187.6	6123.1	6187.6	6262.8	6316.5	6359.5	6305.8
17.5°	12310.7	11300.9	8174.9	6434.7	6209.1	6295.0	6423.9	6542.1	6574.3	6638.8	6595.8
20°	12525.6	11150.6	7594.8	6316.5	6262.8	6456.1	6617.3	6746.2	6810.6	6853.6	6810.6
22.5°	12686.7	10957.2	7175.9	6198.3	6262.8	6499.1	6692.5	6842.9	6918.1	6961.0	6907.3
25°	12826.4	10688.6	6853.6	6026.5	6133.9	6359.5	6574.3	6724.7	6832.1	6896.6	6864.4
27.5°	12998.2	10473.8	6552.8	5768.6	5865.3	6080.2	6305.8	6488.4	6692.5	6799.9	6778.4
30°	13191.6	10366.4	6262.8	5489.3	5553.8	5768.6	6037.2	6284.3	6563.6	6703.2	6703.2
32.5°	13417.2	10291.2	5994.2	5220.8	5274.5	5510.8	5768.6	5994.2	6295.0	6520.6	6509.9
35°	13513.9	10205.2	5779.4	4973.7	5081.1	5274.5	5478.6	5629.0	5940.5	6209.1	6230.6
37.5°	13610.5	10173.0	5672.0	4780.3	4866.3	5016.7	5124.1	5199.3	5489.3	5768.6	5779.4
40°	13728.7	10323.4	5747.2	4651.4	4576.2	4726.6	4780.3	4823.3	4973.7	5156.3	5156.3
42.5°	13653.5	10430.8	5919.0	4533.3	4221.7	4393.6	4415.1	4404.4	4415.1	4425.8	4415.1
45°	13460.2	10323.4	5919.0	4350.6	3845.8	4028.4	4017.6	3963.9	3878.0	3652.4	3620.2
47.5°	13417.2	10258.9	5693.4	4049.9	3469.8	3620.2	3641.7	3534.2	3287.2	3050.8	2975.6
50°	13599.8	10377.1	5338.9	3684.6	3147.5	3276.4	3330.1	3147.5	2868.2	2621.1	2578.2
52.5°	13868.4	10527.5	4823.3	3287.2	2878.9	3007.9	3072.3	2868.2	2578.2	2384.8	2363.3
55°	13836.1	10527.5	4243.2	2921.9	2674.8	2771.5	2878.9	2664.1	2438.5	2331.1	2320.3
57.5°	13137.9	10130.0	3813.5	2664.1	2481.5	2567.4	2707.1	2503.0	2288.1	2309.6	2341.8
60°	11773.6	9098.8	3491.3	2492.2	2309.6	2395.5	2545.9	2309.6	2030.3	1955.1	1955.1
62.5°	9700.3	7498.2	3233.4	2320.3	2148.5	2255.9	2331.1	2019.6	1836.9	1751.0	1751.0
65°	7272.6	5800.9	2964.9	2180.7	2008.8	2127.0	2041.0	1890.7	1708.0	1643.6	1654.3
67°	*5392.7*	*4501.0*	*2739.3*	*2062.5*	*1922.9*	*1976.6*	*1912.1*	*1804.7*	*1622.1*	*1568.4*	*1622.1*
67.5°	4844.8	4275.5	2685.6	2030.3	1901.4	1944.4	1879.9	1794.0	1600.6	1546.9	1600.6
70°	3330.1	3287.2	2395.5	1879.9	1783.2	1740.3	1772.5	1665.1	1503.9	1482.4	1536.2
72.5°	2535.2	2621.1	2148.5	1751.0	1654.3	1600.6	1675.8	1568.4	1407.2	1439.5	1493.2
75°	1987.3	2116.2	1922.9	1568.4	1503.9	1514.7	1665.1	1622.1	1493.2	1525.4	1536.2
77.5°	1471.7	1708.0	1643.6	1364.3	1310.6	1461.0	1879.9	2008.8	1783.2	1729.5	1654.3
80°	1074.2	1224.6	1385.8	1127.9	1095.7	1407.2	2320.3	2567.4	2202.2	1987.3	1933.6
82.5°	794.9	859.4	1138.7	902.4	794.9	1256.9	2578.2	3018.6	2621.1	2212.9	2148.5
85°	569.3	666.0	902.4	666.0	526.4	1031.3	2524.5	2954.1	2599.6	2094.8	2041.0
87.5°	204.1	290.0	386.7	300.8	268.6	709.0	2084.0	2127.0	1622.1	741.2	752.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

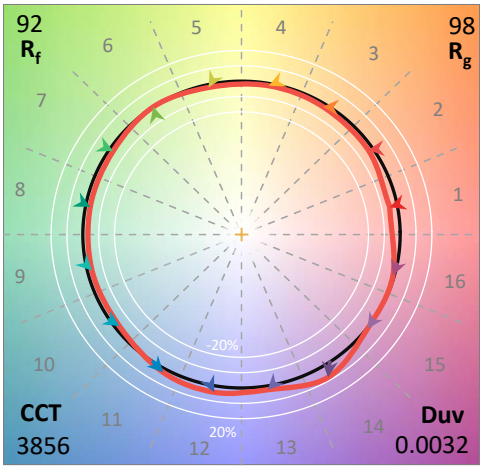
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-16
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-940-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3856
CIE u':	0.2261
CIE v':	0.5084
Duv:	0.0032
CIE x:	0.3896
CIE y:	0.3894
CIE z:	0.2211
Peak Wavelength (nm):	614
Dominant Wavelength (nm):	578
Purity:	33.77304
Rf:	91.8
Rg:	98.4

CRI (Ra):	92.1
R1:	91.8
R2:	94.1
R3:	95.3
R4:	92.8
R5:	91.0
R6:	91.6
R7:	95.0
R8:	85.2
R9:	60.7
R10:	85.2
R11:	92.4
R12:	74.5
R13:	92.3
R14:	97.0
R15:	88.5



Test Conditions

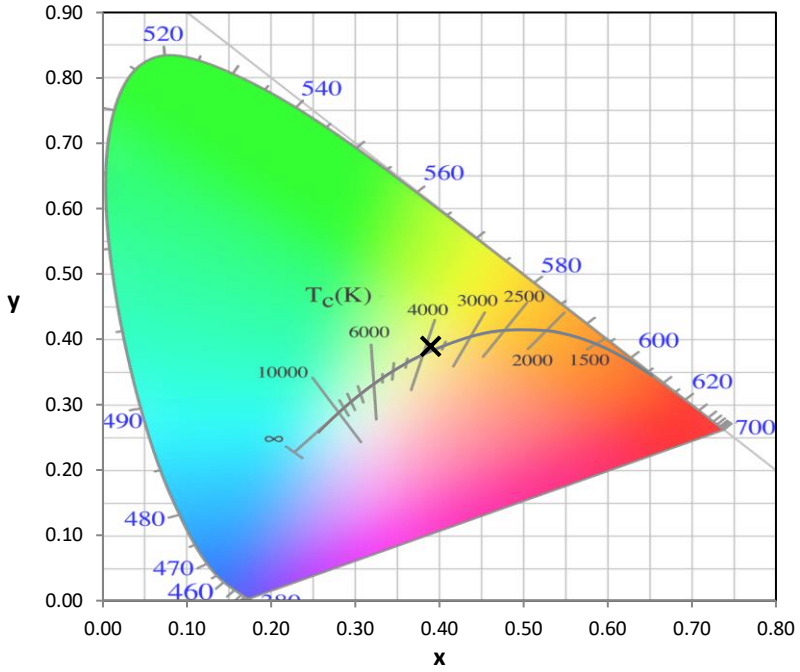
Stabilization Time:	23M
Operation Time:	1H 23M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-16

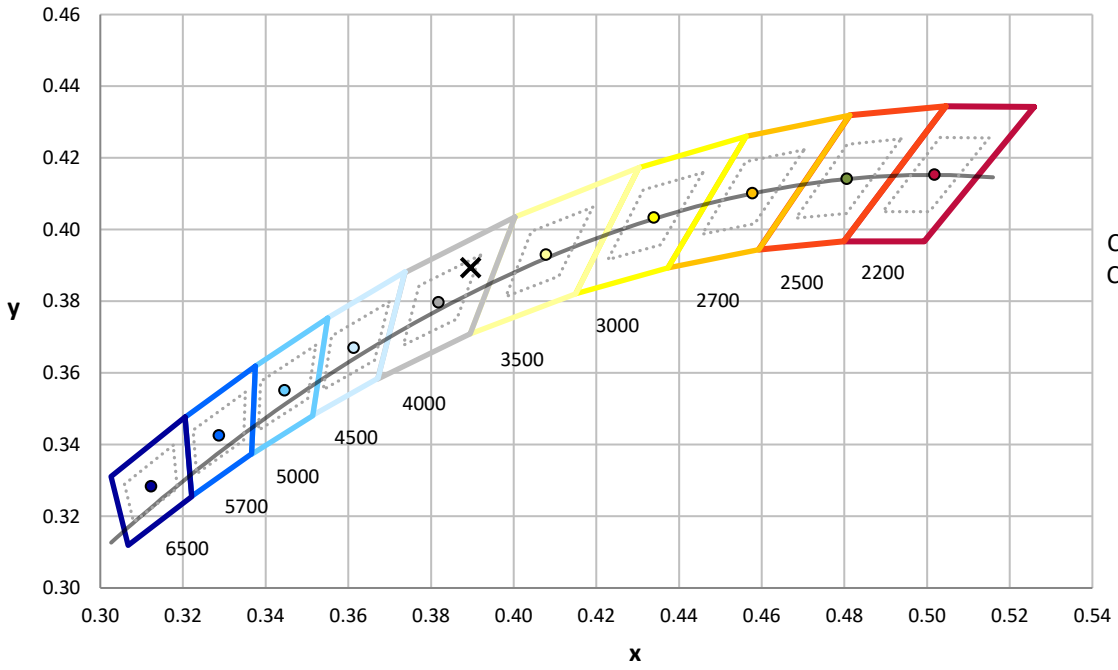
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



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

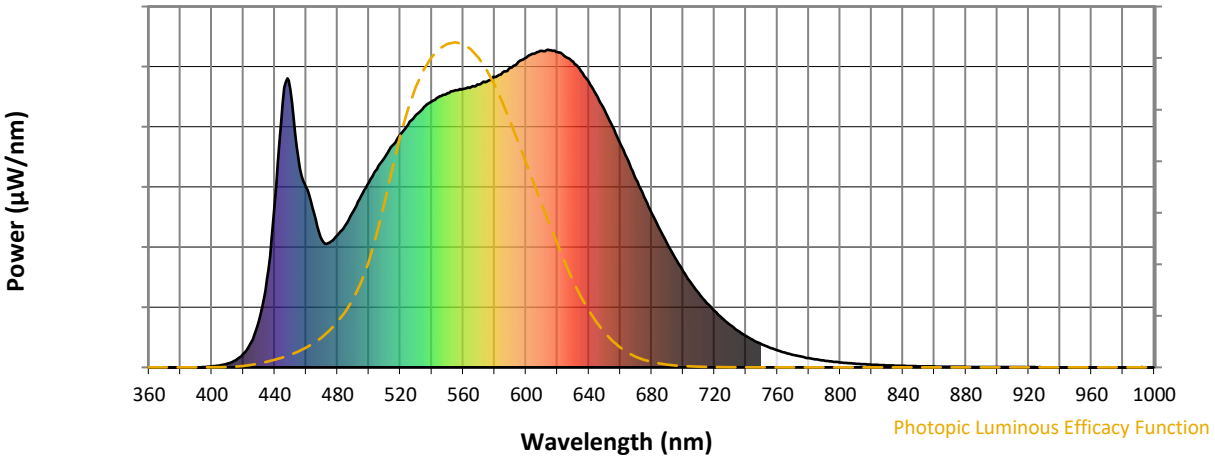


CCT = 3856K
CIE x = 0.3896
CIE y = 0.3894
Duv = 0.0032

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

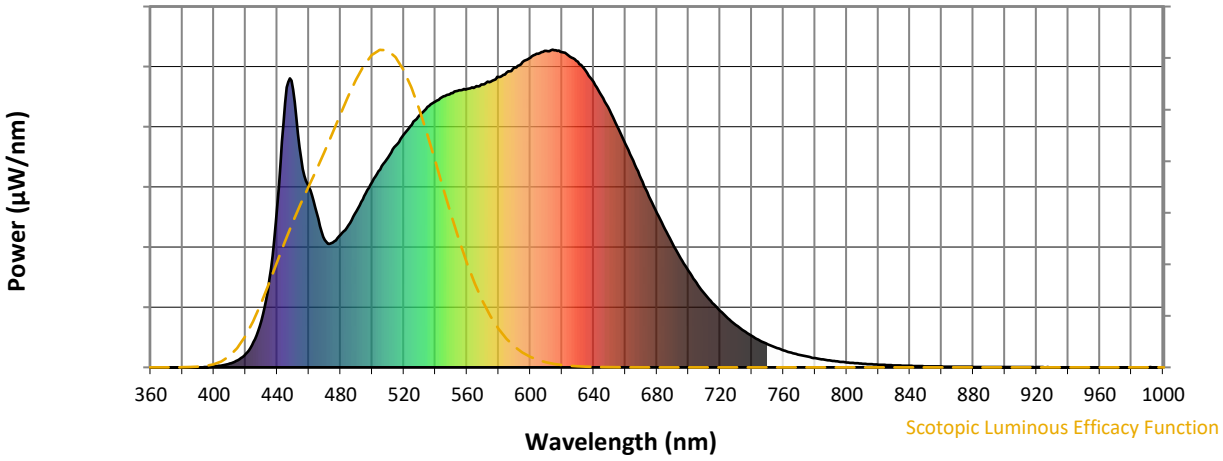


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength

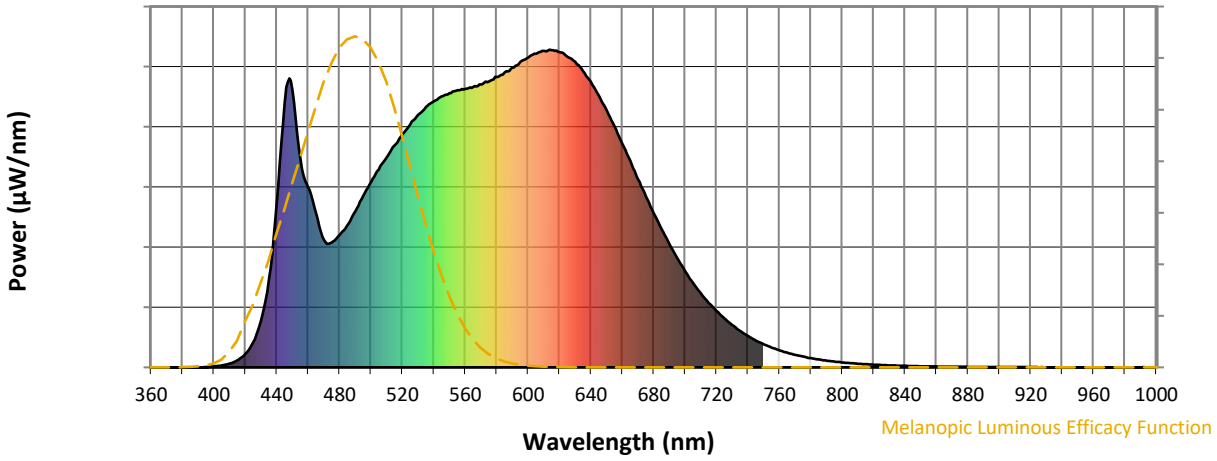


Scotopic Lumens: NR **S/P: 1.72**

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.52**

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

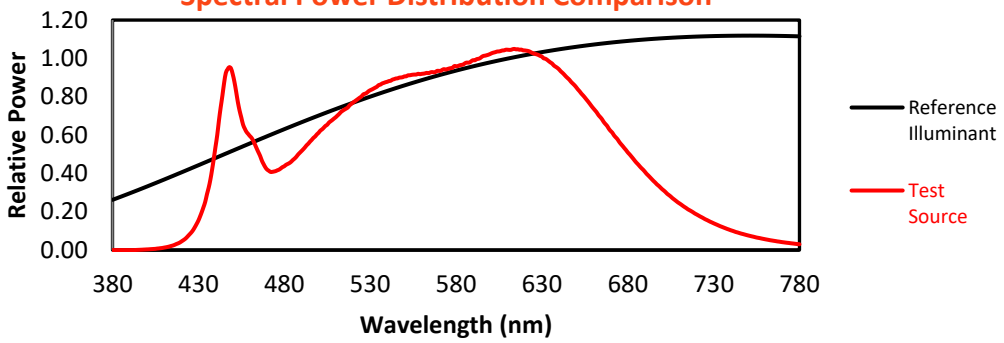
REPORT NUMBER: SP1-2407-184-16

TM-30-18

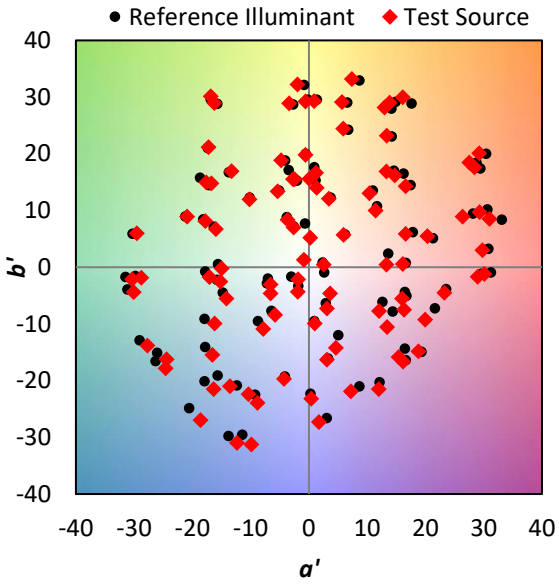
Summary

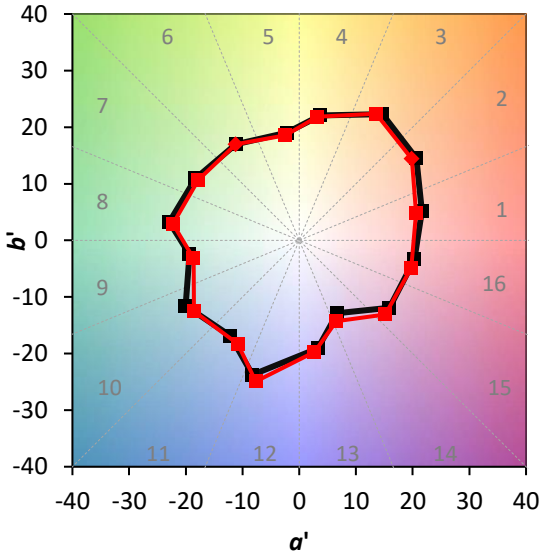
R_f = 91.8
R_g = 98.4
CIE R_a = 92.1
R_9 = 60.7

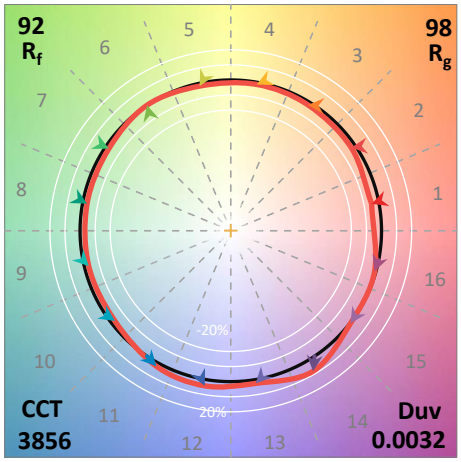
Spectral Power Distribution Comparison

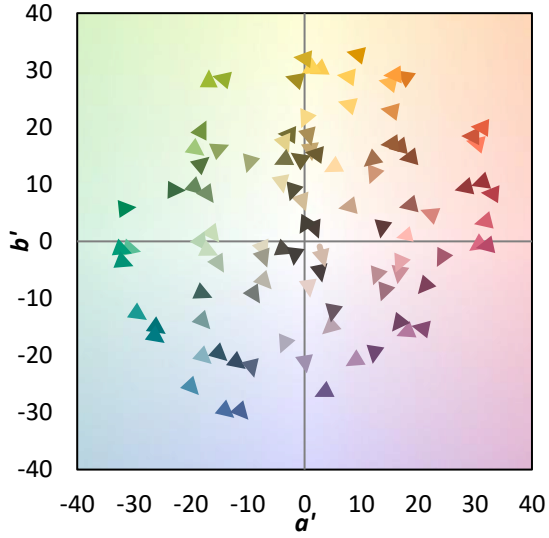


Color Vector Graphics







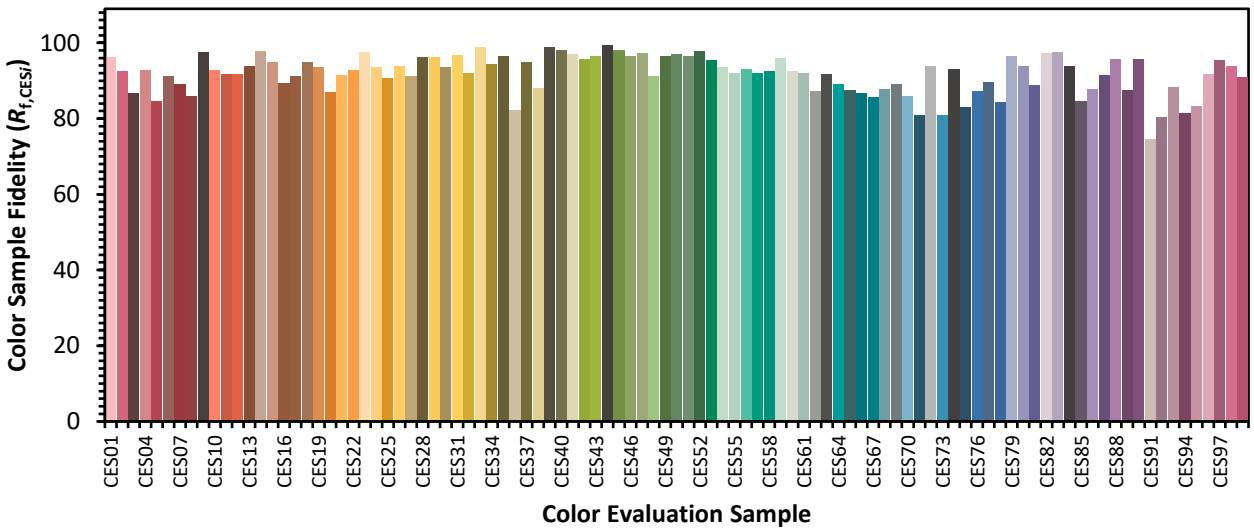


REPORT NUMBER: SP1-2407-184-16

TM-30-18

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

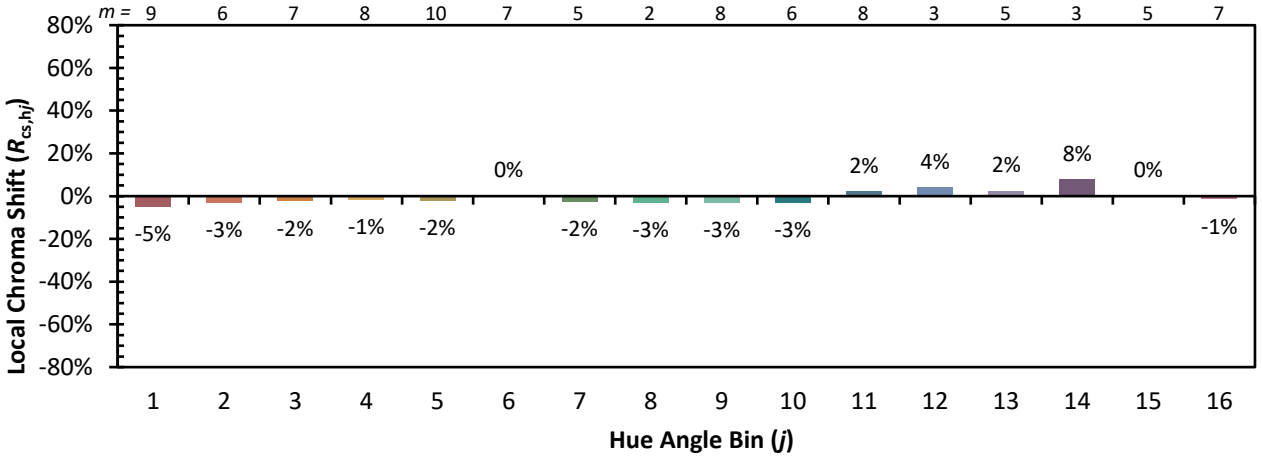
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	

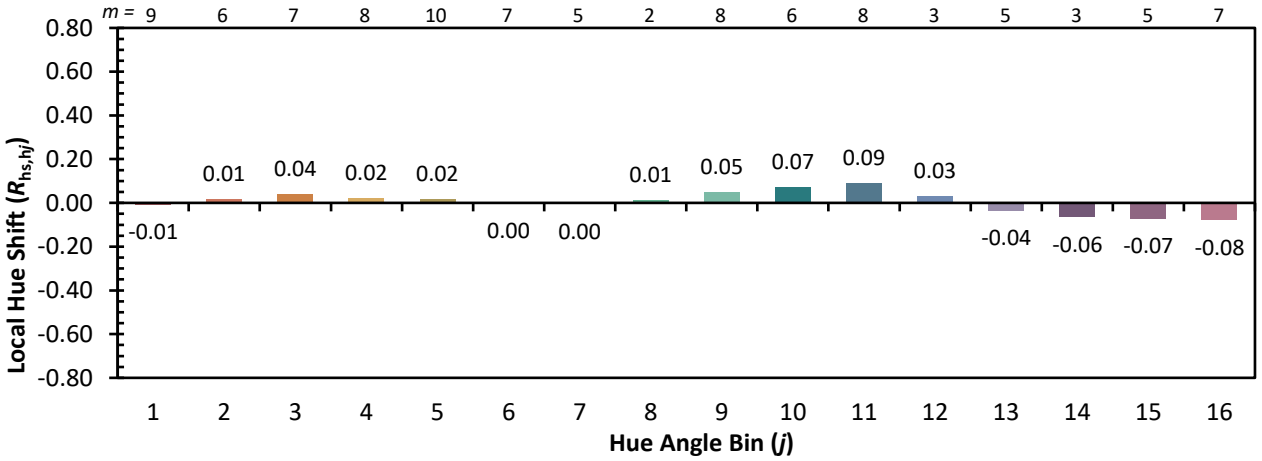


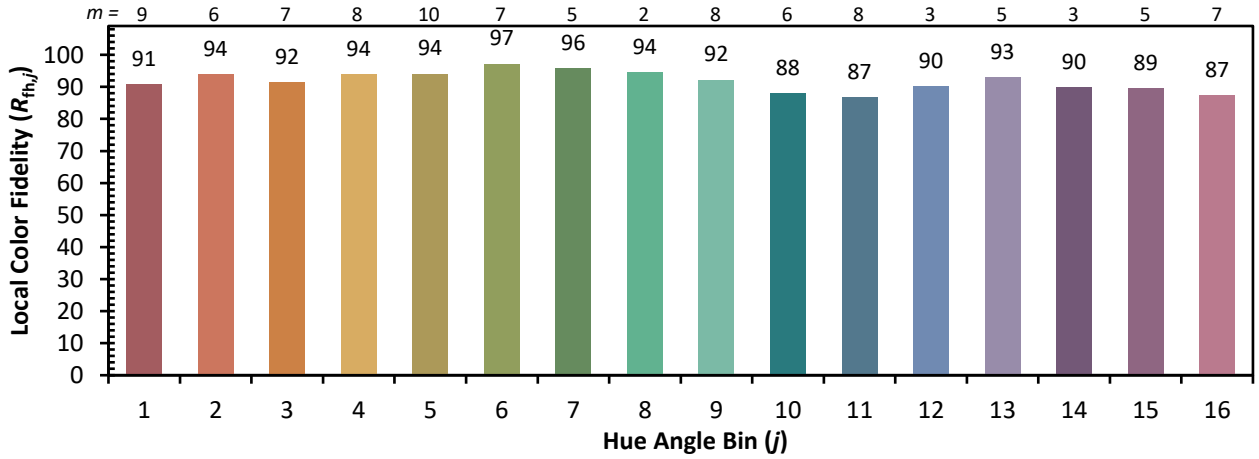
REPORT NUMBER: SP1-2407-184-16

TM-30-18

Color Rendition by Hue-Angle Bin



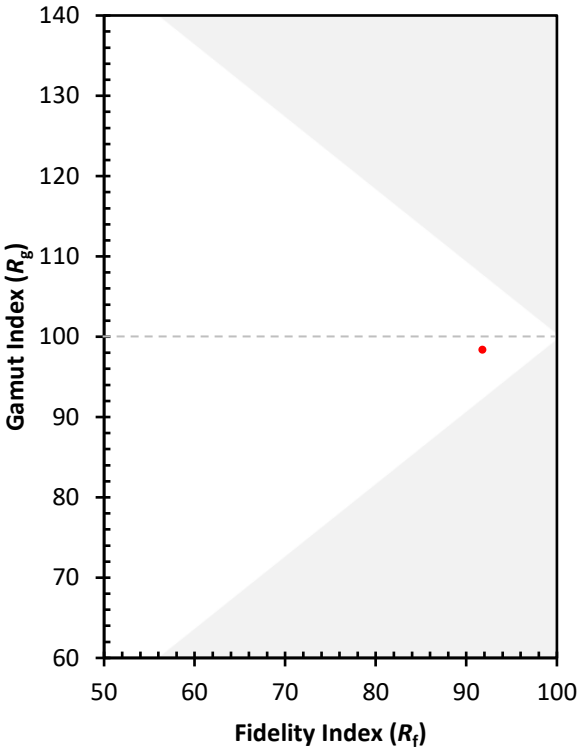


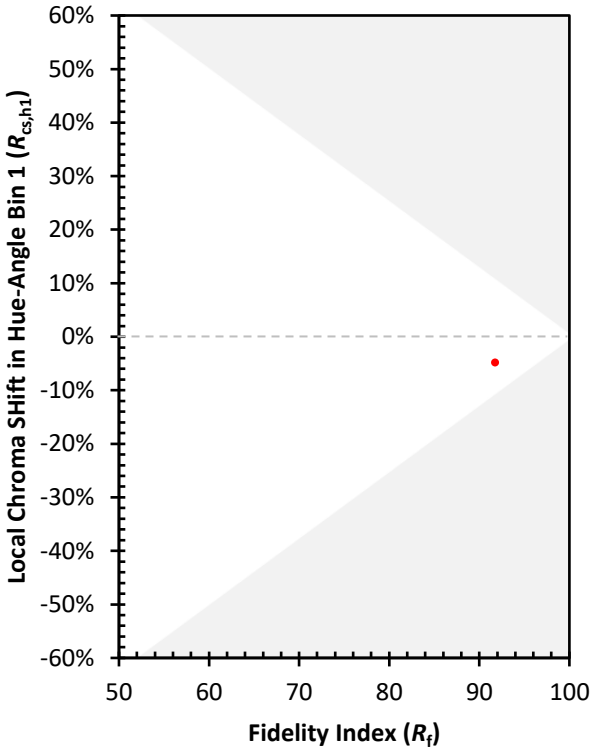


REPORT NUMBER: SP1-2407-184-16

TM-30-18

Measure Comparisons





(END OF REPORT)