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: McGRAW-EDISON

Report Number: P1436876

Luminaire Tested: **GALN-SB7D-740-U-T2LG-HSS**

Issue Date: 03/27/202

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

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:	P1436876
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	03/27/202
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB7D-740-U-T2LG-HSS
Description:	GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 900mA 7xLight Square PACKAGE 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE WITH HOUSE SIDE SHIELD
Light Source:	(182) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Luminaire Equipment:

Sample No.	Condition	Description
a	good	reflector
b	good	lens
c	good	housing
d	good	cord

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	55459.1 lumens
Efficiency:	N/A
Efficacy:	108.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G5

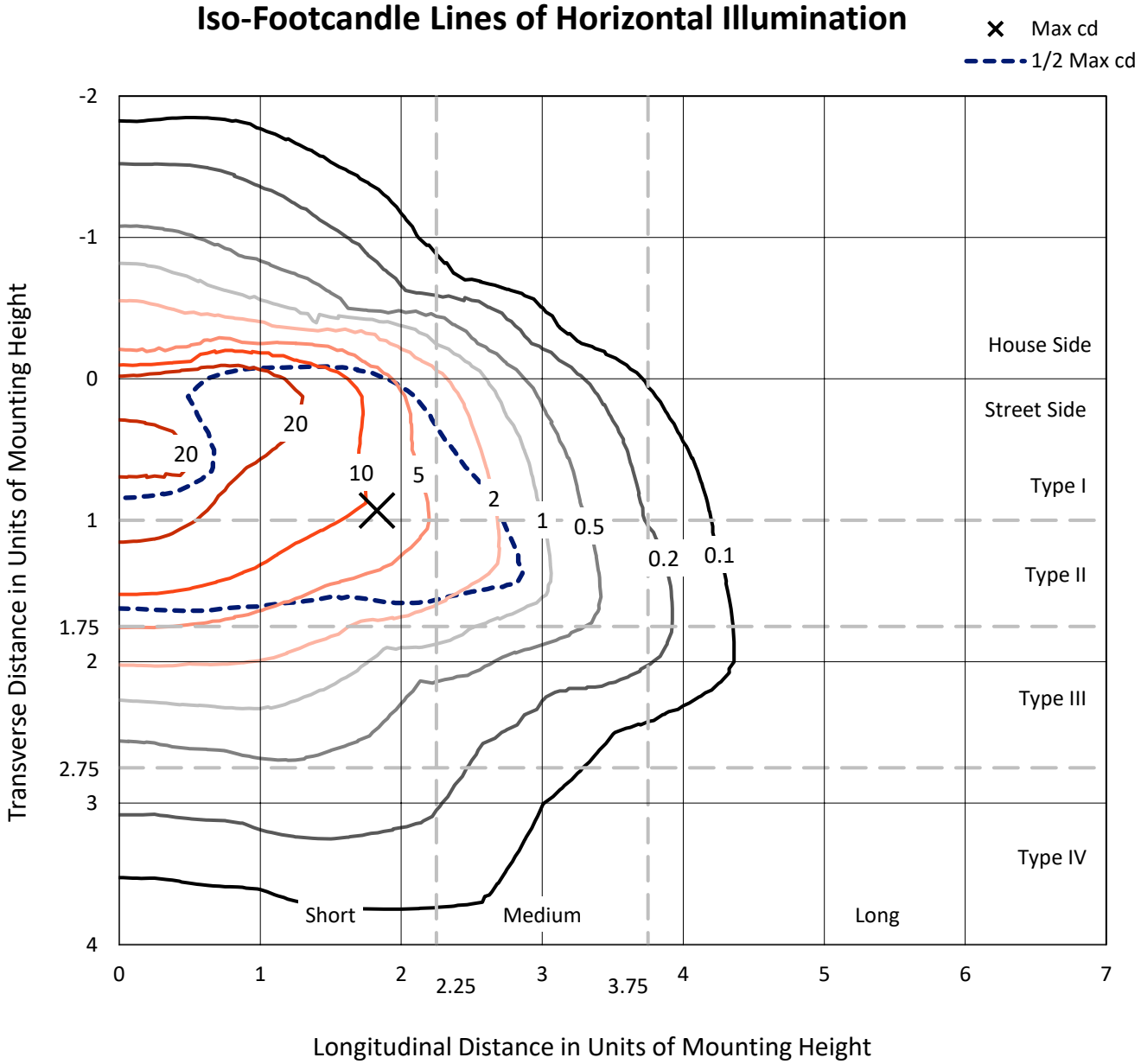
Input Watts (W):	512.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.97
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P1436876
CATALOG NUMBER: GALN-SB7D-740-U-T2LG-HSS

Iso-Footcandle Lines of Horizontal Illumination



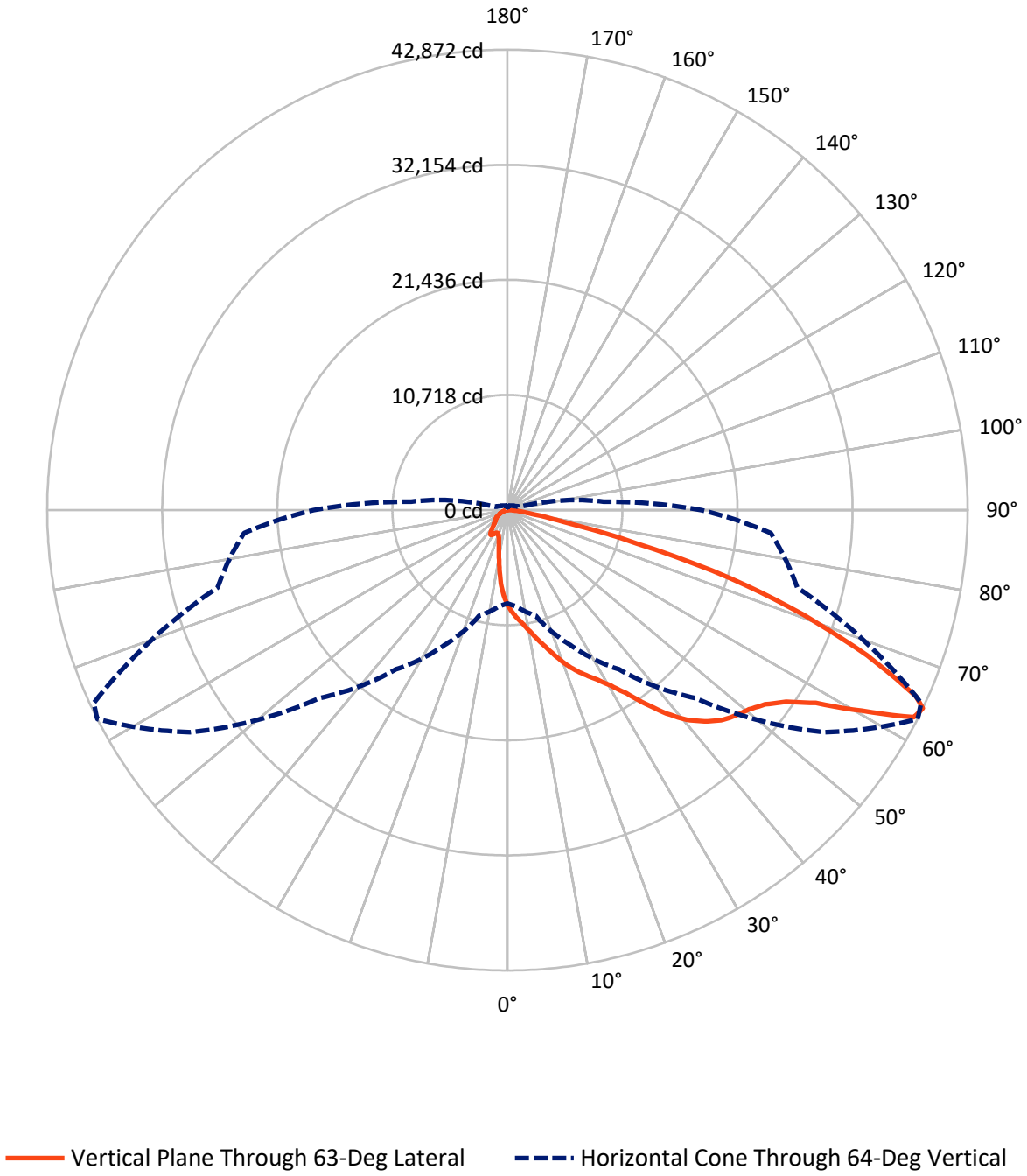
Based on 20 foot mounting height. Maximum calculated value = 39.8 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1436876
CATALOG NUMBER: GALN-SB7D-740-U-T2LG-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

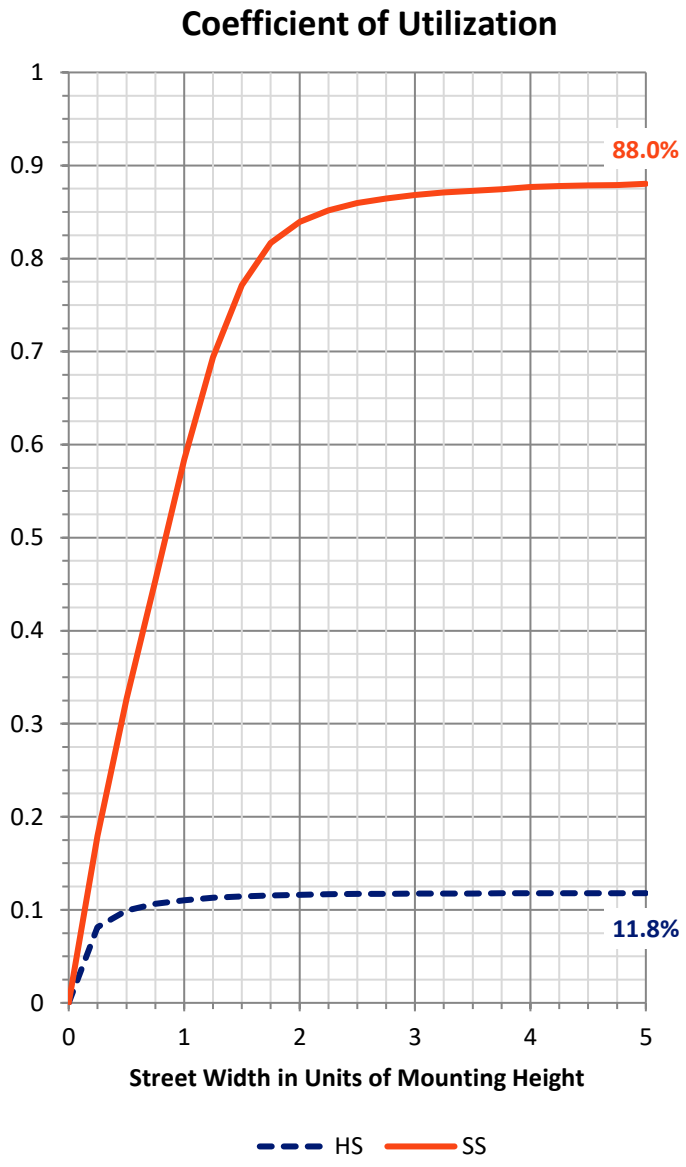
REPORT NUMBER: P1436876
CATALOG NUMBER: GALN-SB7D-740-U-T2LG-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6581.2	0.0	6581.2
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	48877.9	0.0	48877.9
	% Fixture	88.1	0.0	88.1
Total	Lumens	55459.1	0.0	55459.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.1	1.4
10°-20°	2122.0	3.8
20°-30°	3779.3	6.8
30°-40°	7218.4	13.0
40°-50°	11965.0	21.6
50°-60°	14914.3	26.9
60°-70°	11121.1	20.1
70°-80°	3189.5	5.8
80°-90°	394.4	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°	55459.1	100.0
0°-180°	55459.1	100.0



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

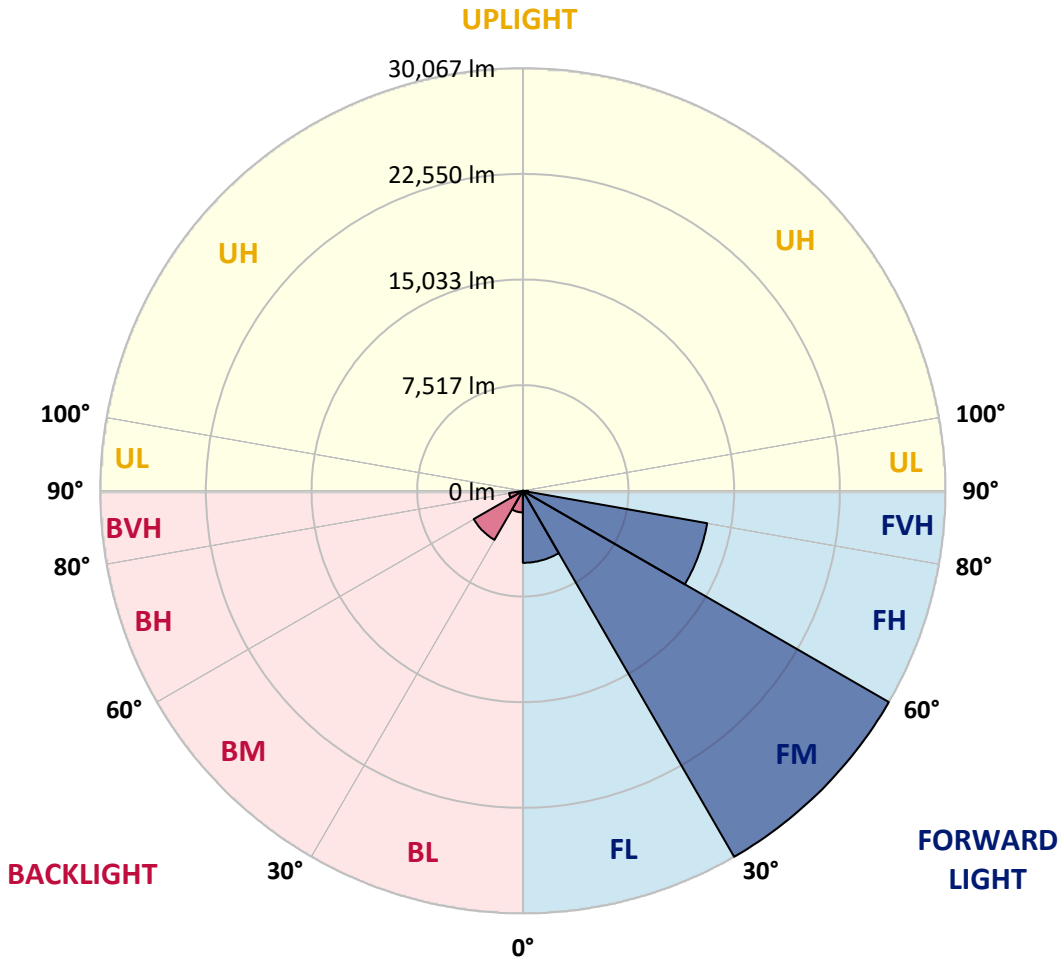
Scaled Data Report

REPORT NUMBER: P1436876
CATALOG NUMBER: GALN-SB7D-740-U-T2LG-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5121.0	9.2			
FM	(30°-60°)	30066.7	54.2			
FH	(60°-80°)	13315.3	24.0			G5
FVH	(80°-90°)	375.0	0.7			G3/500
BL	(0°-30°)	1535.4	2.8	B3/2500		
BM	(30°-60°)	4031.1	7.3	B3/5000		
BH	(60°-80°)	995.3	1.8	B2/1000		G2/1000
BVH	(80°-90°)	19.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type II Short



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

Scaled Data Report

REPORT NUMBER: P1436876
CATALOG NUMBER: GALN-SB7D-740-U-T2LG-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	*8967.1*	8967.1	8967.1	8967.1
2.5°	10048.4	10015.2	9981.9	9932.0	9865.4	9798.9	9715.7	*9599.3*	9549.4	9383.0	9183.4
5°	10564.2	10564.2	10547.5	10514.3	10481.0	10414.5	10314.6	*10164.9*	10098.4	9865.4	9516.1
7.5°	10697.3	10713.9	10763.8	10830.4	10930.2	10913.5	10913.5	*10747.2*	10713.9	10464.4	9998.5
10°	10464.4	10481.0	10614.1	10797.1	11096.5	11379.4	11579.0	*11479.2*	11429.3	11179.7	10597.5
12.5°	10131.6	10131.6	10347.9	10630.7	11096.5	11628.9	12211.2	*12311.0*	12327.7	12044.8	11346.1
15°	9266.5	9299.8	9649.2	10214.8	10980.1	11811.9	12793.5	*13176.1*	13275.9	13092.9	12261.1
17.5°	8118.6	8151.9	8501.3	9266.5	10414.5	11811.9	13292.6	*14174.3*	14307.4	14340.7	13425.7
20°	7636.2	7636.2	7835.8	8418.1	9615.9	11495.8	13592.0	*15239.0*	15538.5	15904.5	14706.7
22.5°	7702.7	7702.7	7819.2	8151.9	9116.8	11063.3	13775.0	*16187.3*	16802.9	17734.5	16353.7
25°	8068.7	8068.7	8168.5	8384.8	9166.7	10996.7	14124.4	*17035.8*	18017.3	19780.8	18233.6
27.5°	8651.0	8634.3	8717.5	8933.8	9649.2	11312.8	14706.7	*17884.2*	18982.3	22076.6	20396.4
30°	9499.4	9449.5	9482.8	9732.4	10431.1	12044.8	15555.1	*18965.6*	20080.3	24588.8	22792.0
32.5°	11462.6	11445.9	10963.5	10830.4	11579.0	13226.0	16719.7	*20313.2*	21560.9	27250.6	25254.2
35°	15006.1	15239.0	14556.9	12810.1	12959.8	14806.5	18383.3	*22143.2*	23291.1	30078.8	27932.7
37.5°	18599.6	18599.6	18316.8	16253.9	15205.8	16553.3	20180.1	*24023.1*	25220.9	32358.0	30511.4
40°	21444.5	21594.2	21261.5	19714.3	18350.1	18549.7	21976.8	*25670.1*	26768.1	33755.5	32341.4
42.5°	23557.3	23524.0	23390.9	22376.1	21610.8	21161.6	23607.2	*26901.2*	27949.3	34470.8	33489.3
45°	25836.5	25836.5	25653.5	24821.7	24189.5	23806.8	24821.7	*27932.7*	29030.7	34903.4	34204.7
47.5°	28215.5	28182.2	27999.2	27084.2	26402.1	25836.5	26052.8	*28598.2*	29696.2	34620.6	34321.1
50°	28797.8	28764.5	29180.4	29213.7	28598.2	27516.8	27034.3	*29163.8*	30128.7	34637.2	34687.1
52.5°	28115.7	28315.3	28930.9	29679.5	30378.3	29247.0	28082.4	*30062.2*	31060.4	35103.0	35602.1
55°	26418.8	26502.0	27683.1	28881.0	30511.4	30910.6	29762.7	*31492.9*	32374.6	35552.2	36417.3
57.5°	23257.8	23573.9	24838.3	26917.9	29396.7	31060.4	32690.7	*33888.6*	34554.0	35735.2	35968.1
60°	17551.5	17717.9	20462.9	23158.0	27084.2	29862.5	35419.1	*37947.9*	37864.7	33672.3	32823.8
62.5°	10680.6	10830.4	12793.5	17069.1	22010.1	27367.1	36334.1	*42489.6*	42040.4	30195.3	27633.2
64°	*8700.9*	*8983.7*	*10198.2*	*13858.2*	*18100.5*	*24755.1*	*36067.9*	*42872.3*	*42522.9*	*27949.3*	*24622.0*
65°	7436.5	7819.2	9066.9	12028.2	15388.8	21943.6	35335.9	*41807.5*	41574.6	26585.1	22126.6
67.5°	4674.9	4857.9	6704.5	9349.7	10597.5	14041.2	30378.3	*36151.1*	36567.0	23690.4	16320.4
70°	3477.0	3560.2	4608.3	7236.9	8268.3	8168.5	20862.2	*29280.2*	29380.1	18949.0	9848.8
72.5°	2528.7	2545.4	3227.5	5357.0	6471.6	5573.2	10996.7	*21760.5*	21045.2	11096.5	5373.6
75°	1680.3	1746.8	2262.6	3776.5	5040.9	4092.6	5007.6	*12394.2*	12177.9	5423.5	3077.8
77.5°	1231.1	1247.7	1530.6	2528.7	3959.5	3011.2	3027.8	*5340.3*	5506.7	3227.5	1946.5
80°	698.7	732.0	998.2	1547.2	2578.7	2062.9	1696.9	*2578.7*	2961.3	2196.0	1297.6
82.5°	415.9	449.2	715.4	1014.8	1763.5	848.5	865.1	*1414.1*	1763.5	1580.5	698.7
85°	249.5	266.2	449.2	549.0	1048.1	565.6	316.1	*698.7*	915.0	931.6	382.6
87.5°	166.4	166.4	249.5	232.9	299.5	266.2	133.1	*183.0*	232.9	316.1	149.7
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: P1436876
CATALOG NUMBER: GALN-SB7D-740-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1	8967.1
2.5°	9017.0	8917.2	8617.7	8218.4	7852.4	7569.6	7220.2	6987.3	6771.1	6771.1	6588.1
5°	9233.3	8967.1	8235.1	7320.1	6338.5	5406.9	4808.0	4142.5	3926.2	3743.2	3776.5
7.5°	9599.3	9116.8	7819.2	6172.1	4608.3	3610.1	2944.7	2645.2	2512.1	2428.9	2445.6
10°	10048.4	9383.0	7320.1	5007.6	3393.8	2645.2	2329.1	2212.7	2162.7	2146.1	2146.1
12.5°	10664.0	9699.1	6821.0	4026.0	2678.5	2279.2	2112.8	2046.3	1996.4	1963.1	1963.1
15°	11396.0	10098.4	6238.7	3310.7	2345.7	2096.2	1963.1	1896.6	1830.0	1813.4	1813.4
17.5°	12327.7	10514.3	5723.0	2844.8	2179.4	1963.1	1830.0	1746.8	1696.9	1680.3	1680.3
20°	13359.1	11030.0	5207.2	2578.7	2062.9	1830.0	1696.9	1630.4	1580.5	1547.2	1563.8
22.5°	14673.4	11678.8	4874.5	2445.6	1963.1	1713.6	1580.5	1513.9	1464.0	1430.7	1447.4
25°	16120.8	12494.0	4691.5	2445.6	1896.6	1630.4	1480.6	1414.1	1364.2	1330.9	1330.9
27.5°	17884.2	13409.0	4708.1	2545.4	1879.9	1563.8	1397.5	1330.9	1281.0	1231.1	1231.1
30°	19830.7	14490.4	4891.1	2728.4	1913.2	1497.3	1330.9	1231.1	1197.8	1147.9	1147.9
32.5°	21893.6	15738.1	5357.0	2961.3	1879.9	1414.1	1231.1	1147.9	1098.0	1064.7	1064.7
35°	24073.0	17152.2	5939.2	3061.1	1713.6	1297.6	1147.9	1064.7	1031.5	1014.8	998.2
37.5°	26152.6	18383.3	6255.3	2861.5	1497.3	1197.8	1048.1	964.9	948.3	915.0	915.0
40°	27766.3	19398.2	6072.3	2445.6	1380.8	1098.0	964.9	881.7	848.5	815.2	815.2
42.5°	28714.6	19764.2	5406.9	2079.6	1297.6	998.2	881.7	798.6	765.3	748.6	748.6
45°	29263.6	19714.3	4624.9	1863.3	1214.5	915.0	798.6	748.6	698.7	682.1	665.5
47.5°	29247.0	19198.5	4059.3	1680.3	1131.3	848.5	748.6	698.7	648.8	632.2	632.2
50°	29130.5	18433.2	3427.1	1547.2	1064.7	798.6	698.7	665.5	615.6	598.9	582.3
52.5°	29413.3	18000.7	2861.5	1464.0	981.6	765.3	682.1	632.2	565.6	549.0	549.0
55°	29762.7	17751.2	2295.8	1380.8	915.0	748.6	648.8	598.9	532.4	515.7	515.7
57.5°	28747.9	16802.9	1896.6	1247.7	831.8	715.4	615.6	582.3	515.7	465.8	465.8
60°	25553.7	13891.5	1563.8	1098.0	765.3	665.5	582.3	532.4	465.8	399.3	399.3
62.5°	20779.0	10597.5	1297.6	931.6	715.4	615.6	532.4	482.5	399.3	316.1	316.1
64°	*18050.6*	*9000.3*	*1164.6*	*815.2*	*682.1*	*565.6*	*482.5*	*432.5*	*349.4*	*266.2*	*249.5*
65°	16187.3	7952.2	1081.4	765.3	665.5	532.4	465.8	415.9	316.1	249.5	232.9
67.5°	11396.0	5340.3	865.1	632.2	582.3	449.2	399.3	349.4	282.8	216.3	199.6
70°	6638.0	3027.8	682.1	532.4	449.2	349.4	332.7	316.1	249.5	166.4	166.4
72.5°	3610.1	1513.9	515.7	432.5	349.4	249.5	282.8	249.5	199.6	133.1	116.5
75°	2212.7	931.6	382.6	316.1	232.9	183.0	216.3	183.0	116.5	83.2	66.5
77.5°	1480.6	598.9	282.8	216.3	149.7	116.5	149.7	99.8	49.9	16.6	16.6
80°	915.0	415.9	183.0	133.1	83.2	49.9	33.3	16.6	16.6	0.0	0.0
82.5°	399.3	266.2	99.8	66.5	33.3	16.6	16.6	0.0	0.0	0.0	0.0
85°	216.3	83.2	33.3	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.5	33.3	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

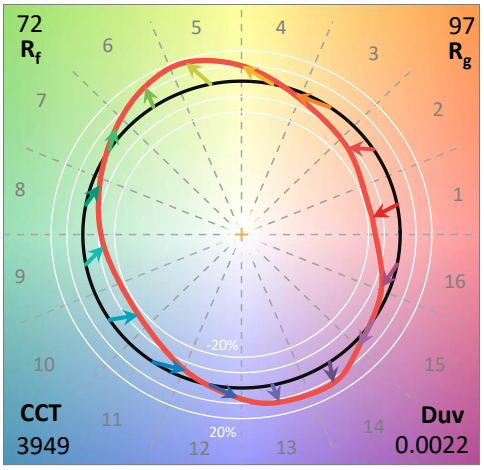
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
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-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



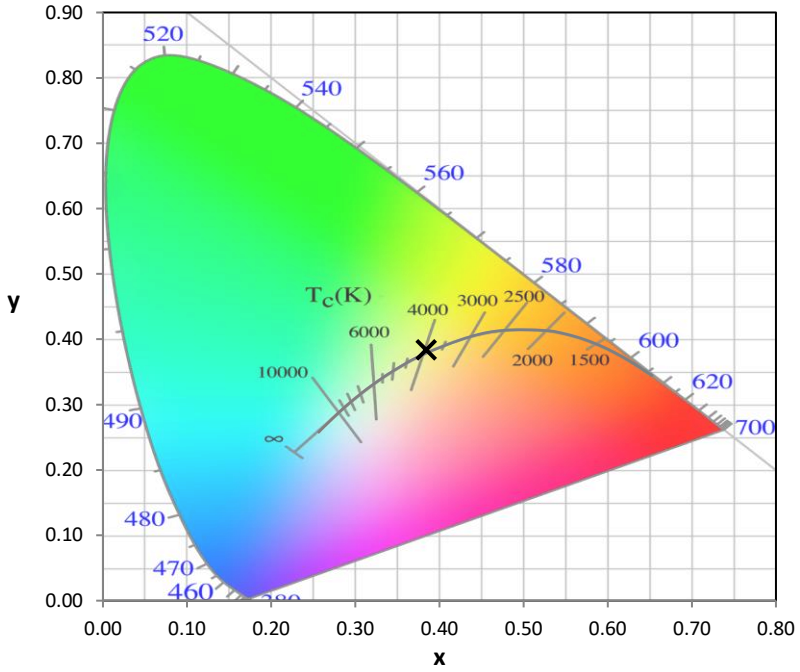
Test Conditions

Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

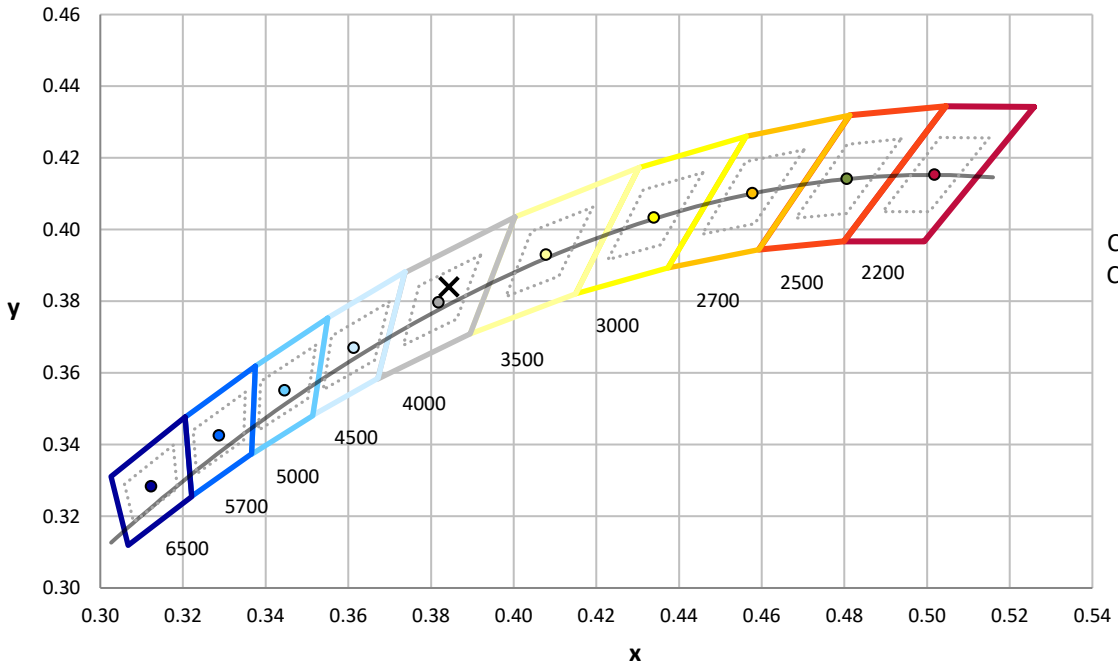
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

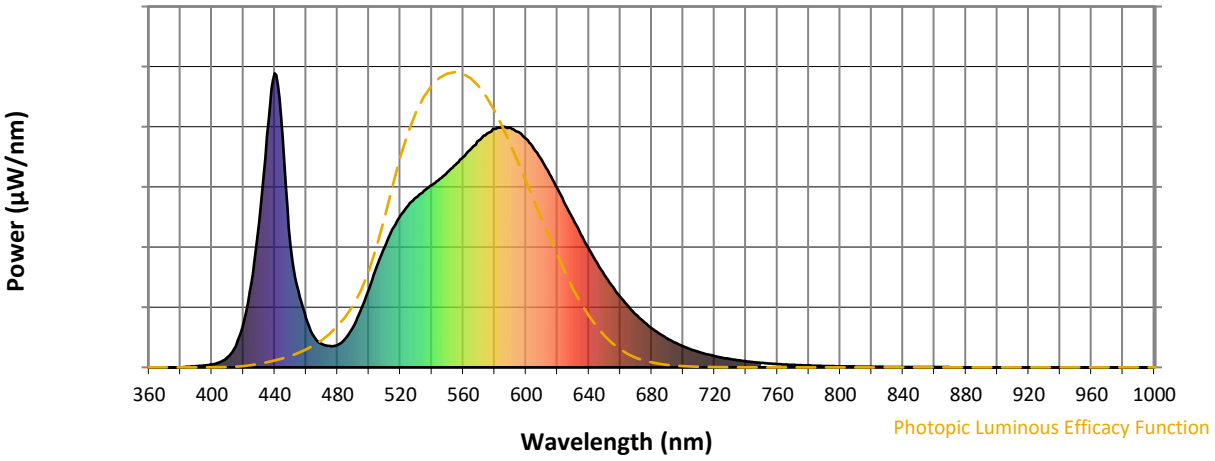


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

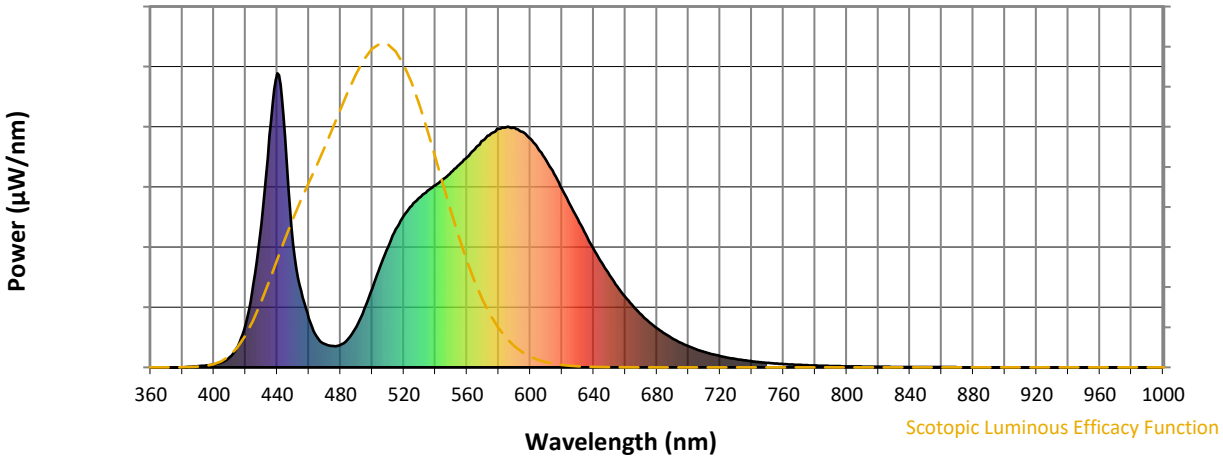


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

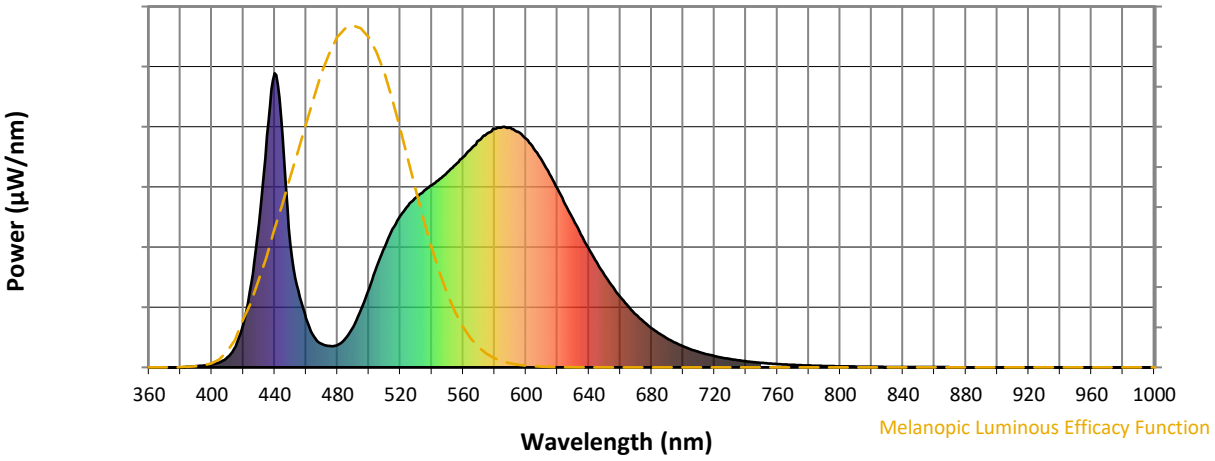


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

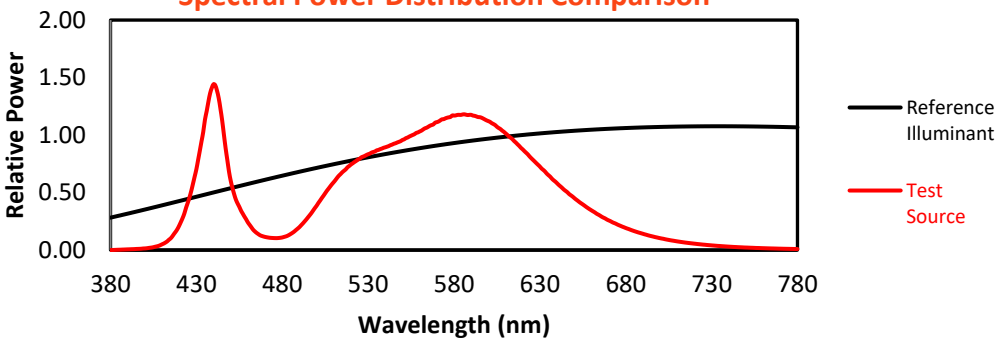
REPORT NUMBER: SP1-2407-184-1

TM-30-18

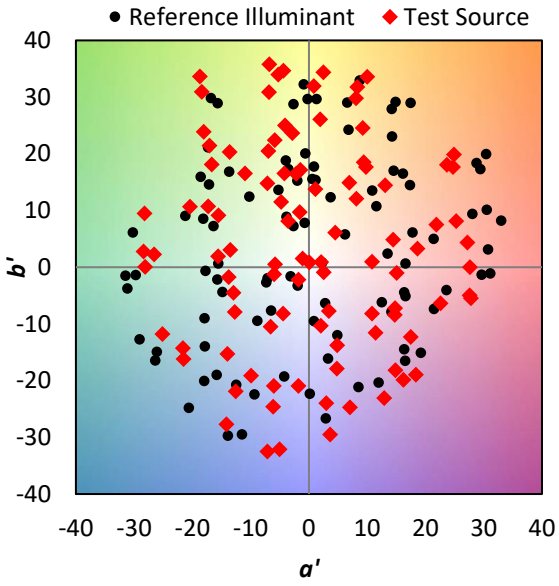
Summary

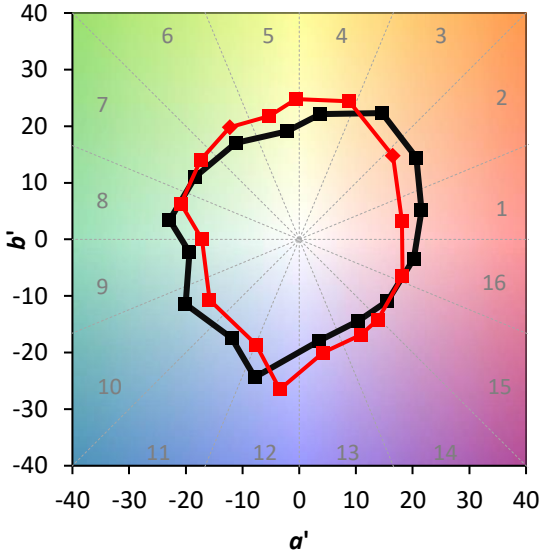
R_f = 71.8
R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

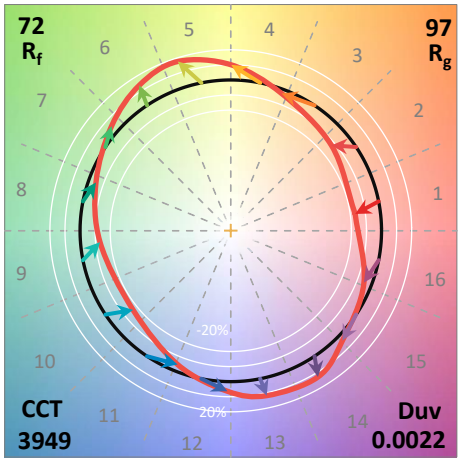
Spectral Power Distribution Comparison

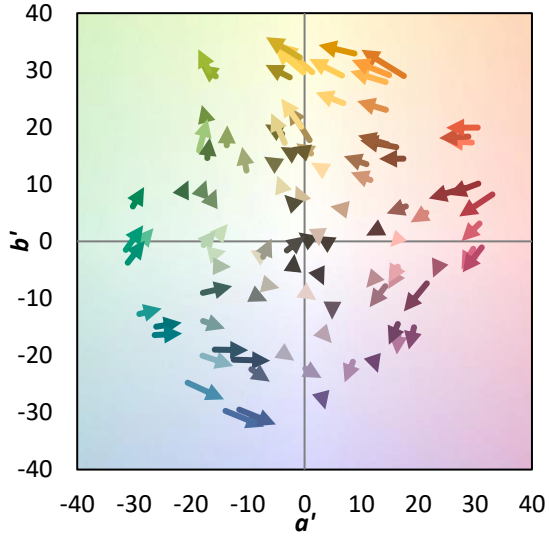


Color Vector Graphics







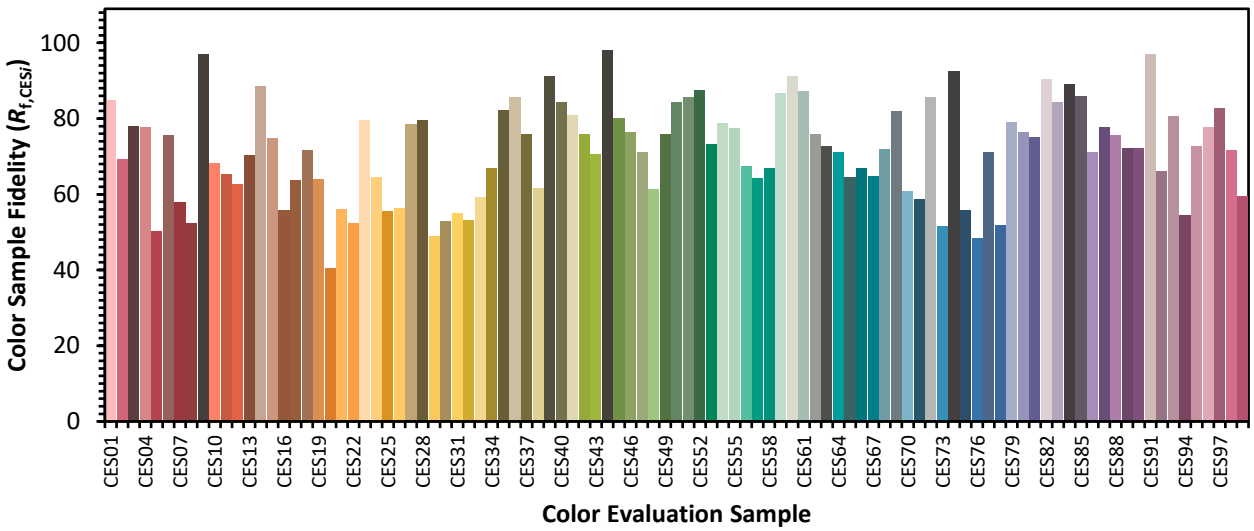


REPORT NUMBER: SP1-2407-184-1

TM-30-18

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

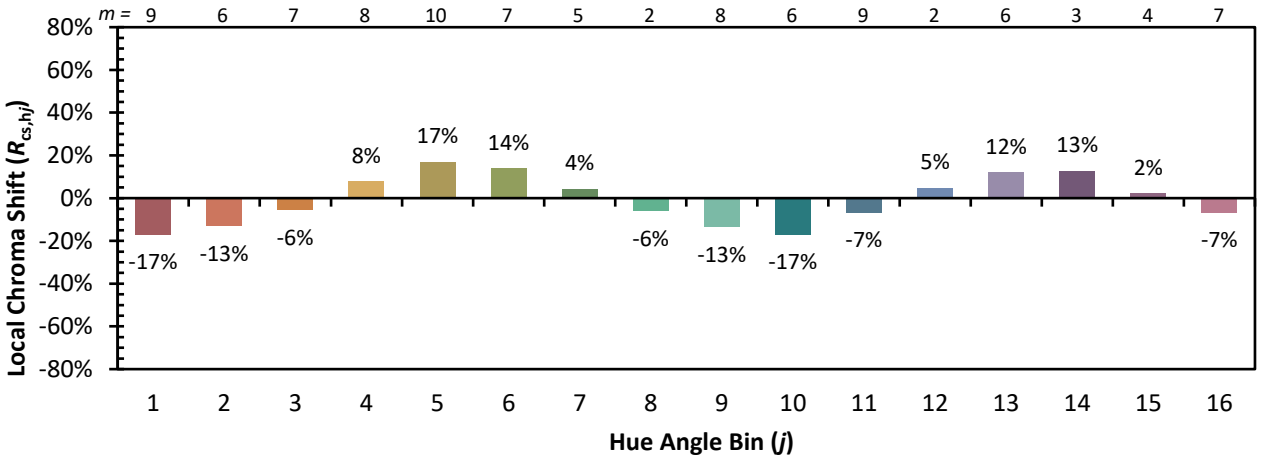
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

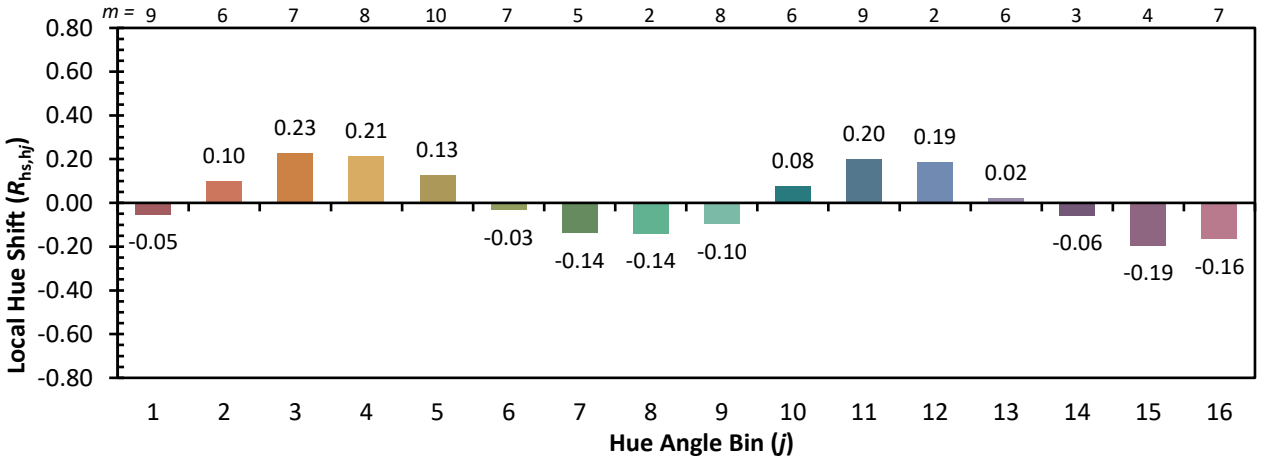


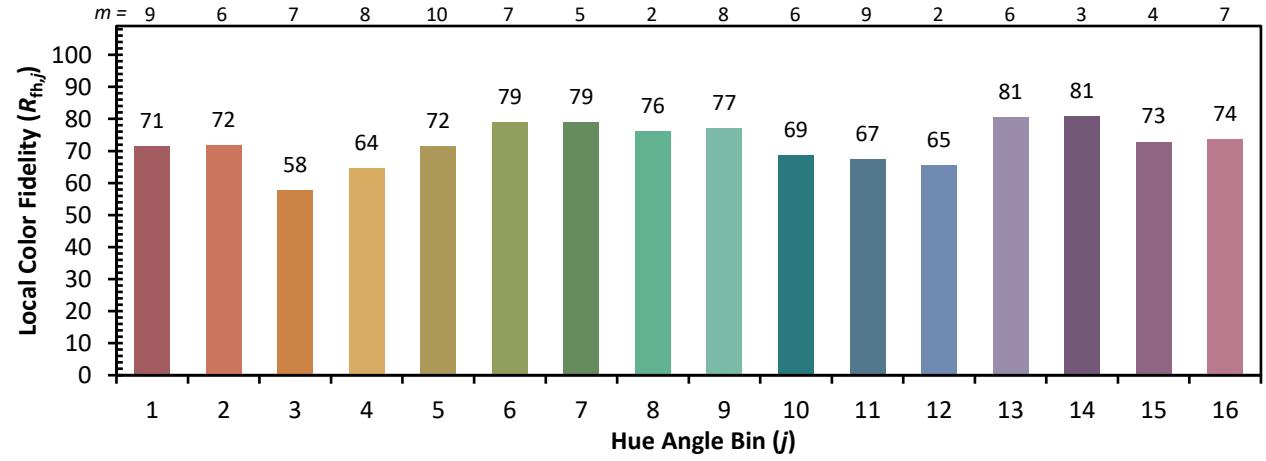
REPORT NUMBER: SP1-2407-184-1

TM-30-18

Color Rendition by Hue-Angle Bin



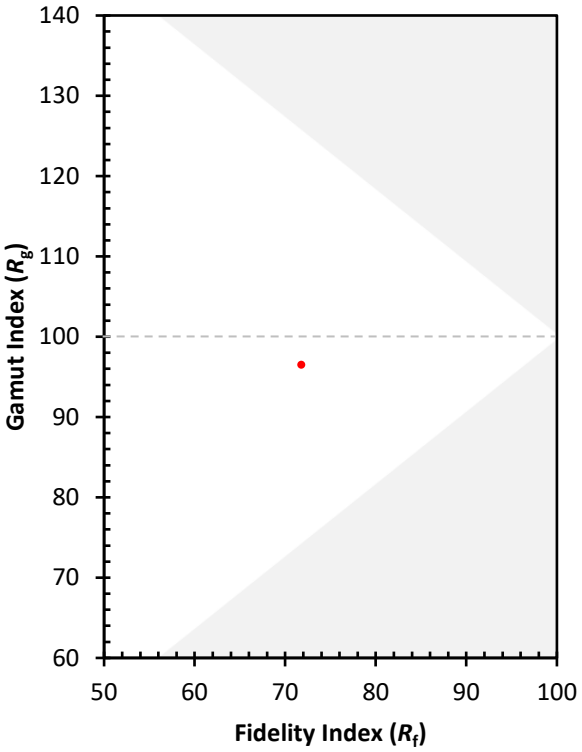


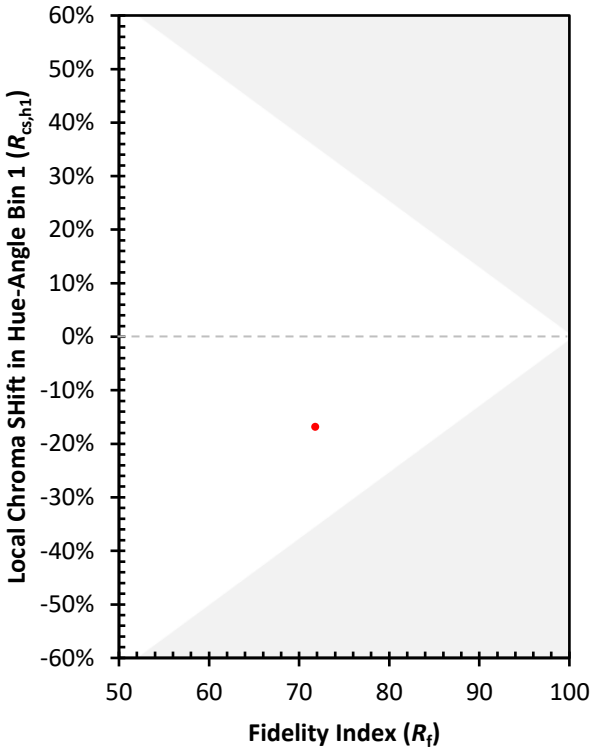


REPORT NUMBER: SP1-2407-184-1

TM-30-18

Measure Comparisons





(END OF REPORT)