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: P438461

Luminaire Tested: **ISW-SA1C-830-U-T4W-HSS**

Issue Date: 12/10/2020

Report Generated By 670245982

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:	P438461
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-13)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISW-SA1C-830-U-T4W-HSS
Description:	IMPACT ELITE LED WEDGE LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2638 lumens
Efficiency:	N/A
Efficacy:	77.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

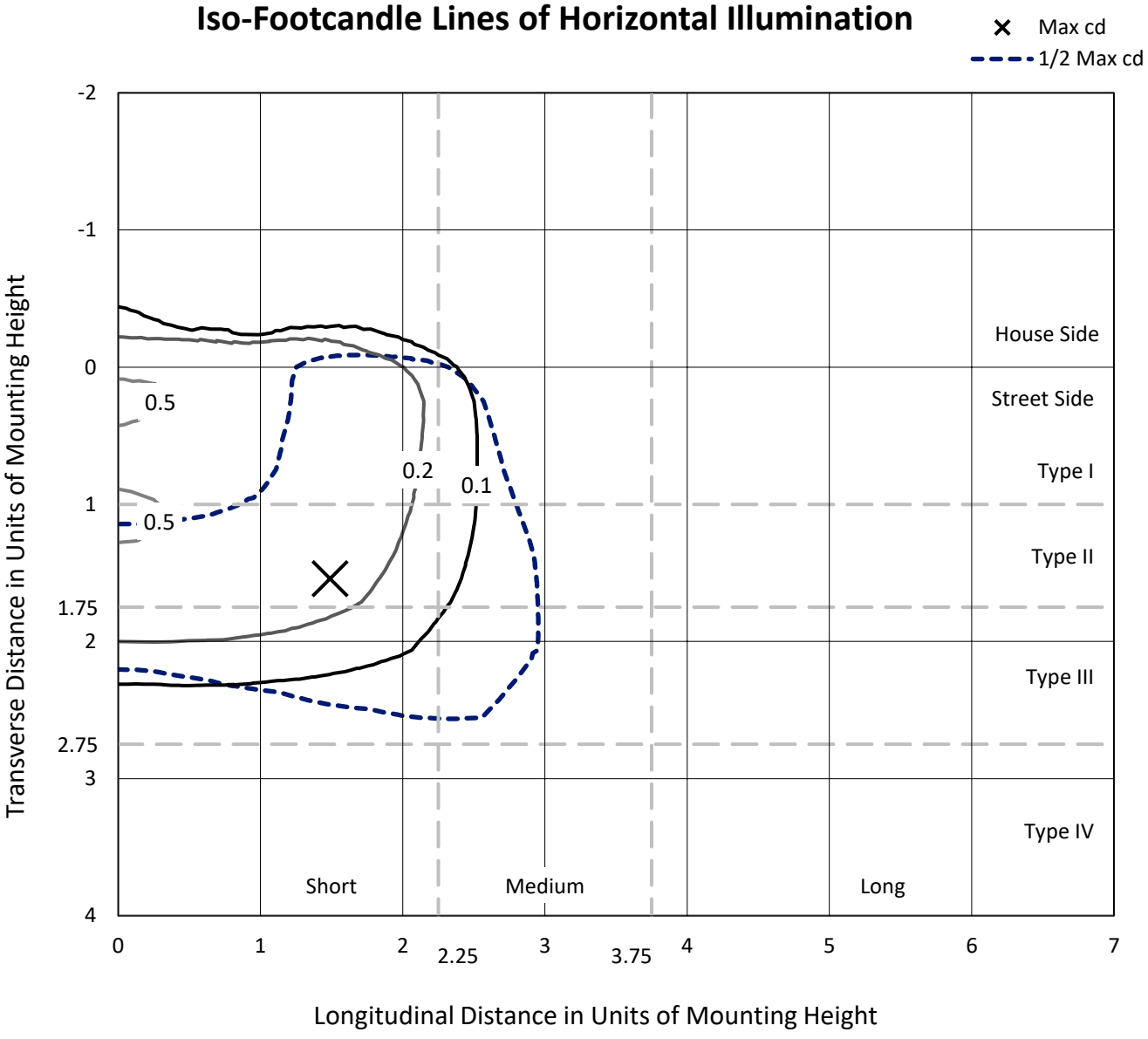
Input Watts (W):	34.2
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P438461
CATALOG NUMBER: ISW-SA1C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



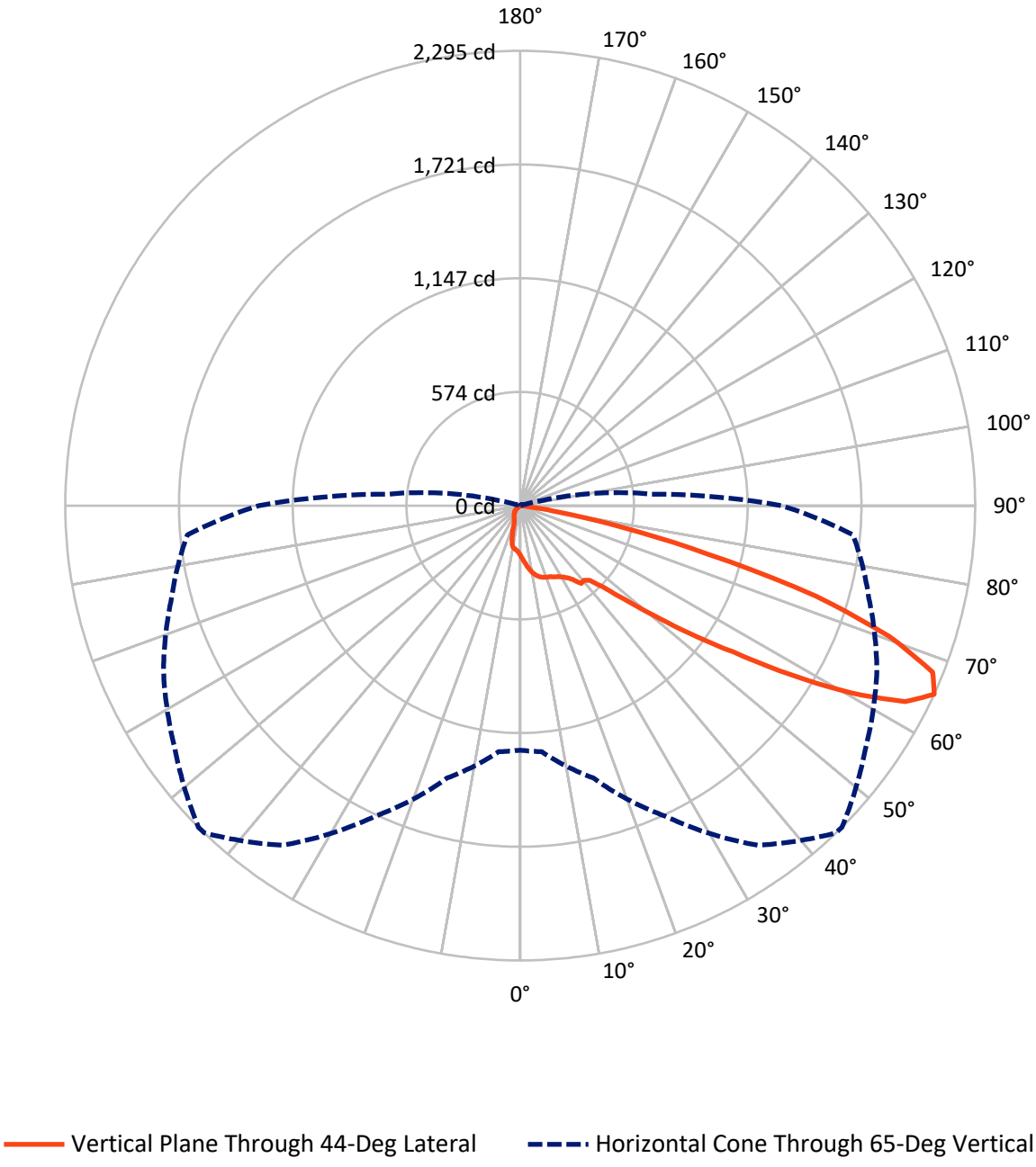
Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P438461
CATALOG NUMBER: ISW-SA1C-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

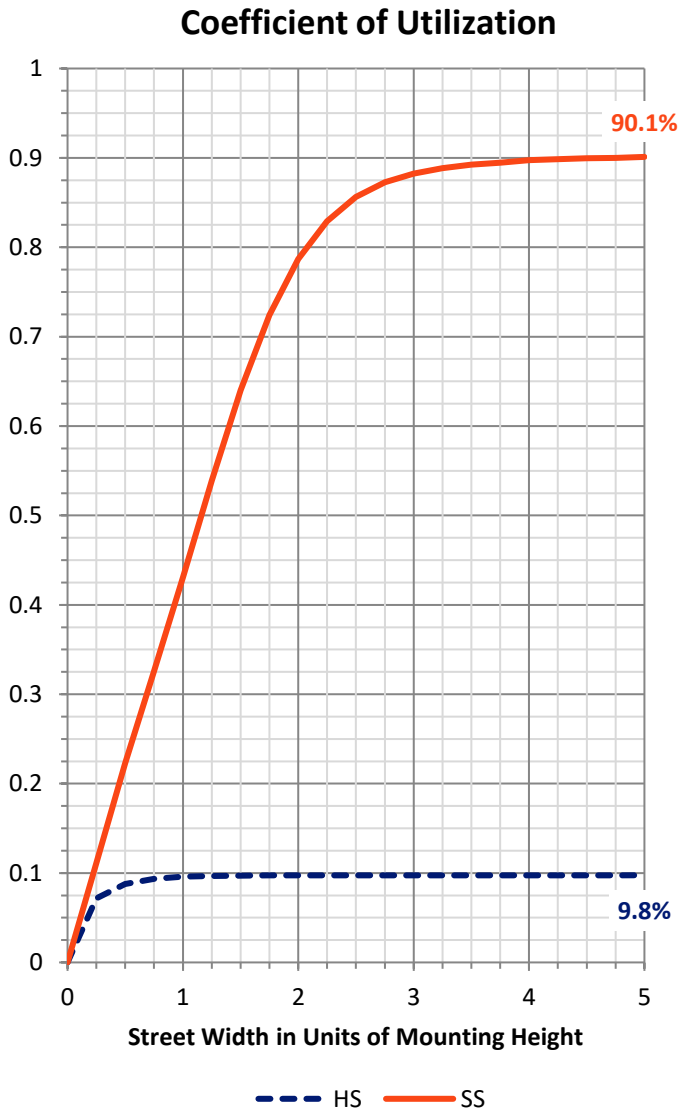
REPORT NUMBER: P438461
CATALOG NUMBER: ISW-SA1C-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	259.5	0.0	259.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	2378.5	0.0	2378.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	2638.0	0.0	2638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	1.0
10°-20°	76.8	2.9
20°-30°	122.9	4.7
30°-40°	182.6	6.9
40°-50°	332.8	12.6
50°-60°	697.8	26.5
60°-70°	888.2	33.7
70°-80°	298.1	11.3
80°-90°	13.4	0.5
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°	2638.0	100.0
0°-180°	2638.0	100.0



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

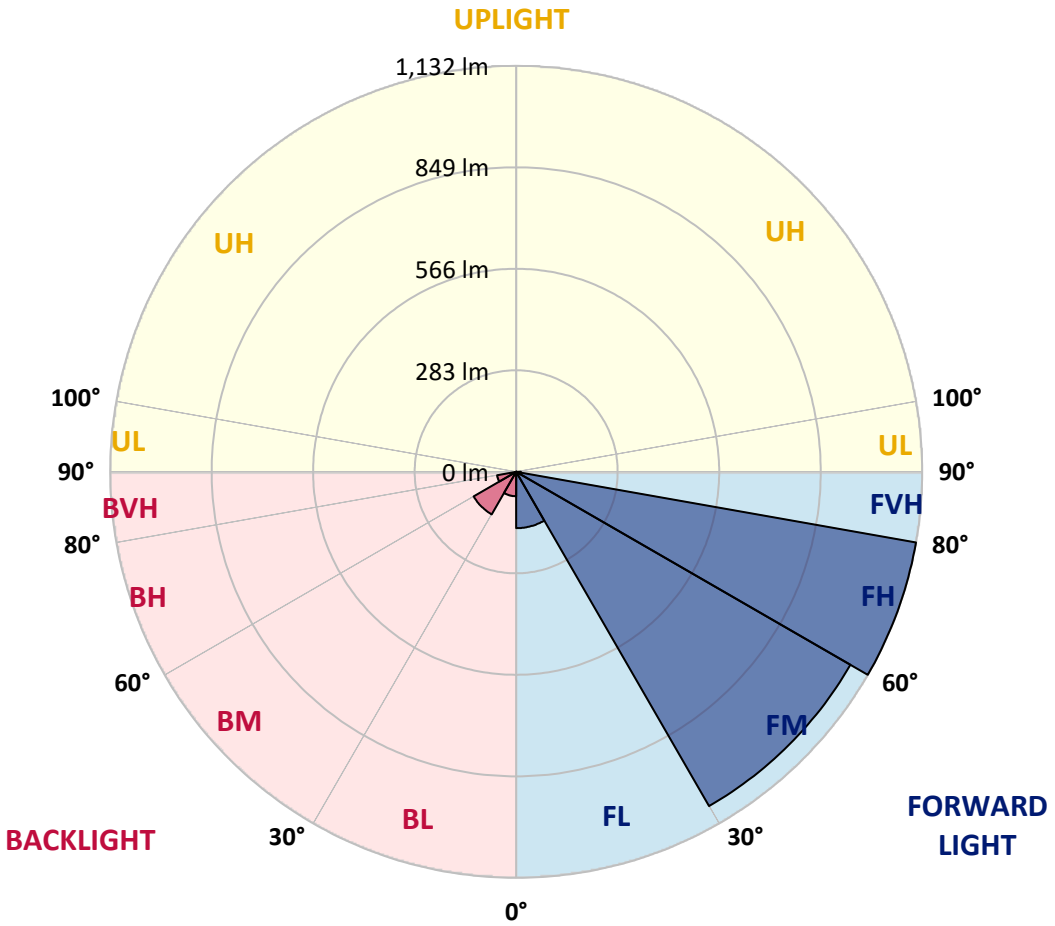
Scaled Data Report

REPORT NUMBER: P438461
CATALOG NUMBER: ISW-SA1C-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	157.1	6.0			
FM	(30°-60°)	1076.3	40.8			
FH	(60°-80°)	1132.2	42.9			G1/1800
FVH	(80°-90°)	13.0	0.5			G1/100
BL	(0°-30°)	68.1	2.6	B0/110		
BM	(30°-60°)	136.9	5.2	B0/220		
BH	(60°-80°)	54.1	2.1	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Short



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

Scaled Data Report

REPORT NUMBER: P438461
CATALOG NUMBER: ISW-SA1C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	251.3	251.3	251.3	251.3	251.3	*251.3*	251.3	251.3	251.3	251.3	251.3
2.5°	283.2	284.4	279.3	280.6	278.1	*273.0*	271.7	267.9	262.8	258.9	255.1
5°	320.2	318.9	316.3	311.2	304.9	*297.2*	294.7	287.0	278.1	267.9	260.2
7.5°	350.8	350.8	346.9	341.8	331.6	*321.4*	318.9	308.7	295.9	281.9	267.9
10°	377.6	376.3	372.5	366.1	353.3	*344.4*	340.6	327.8	312.5	297.2	280.6
12.5°	398.0	398.0	392.9	383.9	369.9	*361.0*	358.4	346.9	331.6	313.8	290.8
15°	409.4	408.2	404.3	392.9	382.7	*372.5*	371.2	361.0	348.2	329.1	304.9
17.5°	409.4	410.7	404.3	398.0	389.0	*380.1*	378.8	371.2	358.4	341.8	316.3
20°	404.3	404.3	399.2	394.1	389.0	*385.2*	383.9	378.8	368.6	354.6	329.1
22.5°	398.0	396.7	395.4	391.6	390.3	*389.0*	390.3	387.8	381.4	366.1	341.8
25°	396.7	395.4	392.9	390.3	391.6	*398.0*	398.0	399.2	392.9	380.1	357.2
27.5°	401.8	401.8	398.0	394.1	396.7	*405.6*	405.6	409.4	405.6	396.7	373.7
30°	423.5	418.4	412.0	404.3	406.9	*417.1*	418.4	426.0	426.0	419.7	400.5
32.5°	452.8	447.7	431.1	420.9	420.9	*433.7*	433.7	446.4	457.9	445.2	415.8
35°	475.8	473.2	454.1	441.3	445.2	*456.6*	460.5	480.9	491.1	459.2	423.5
37.5°	552.3	548.5	511.5	464.3	466.8	*498.7*	501.3	510.2	501.3	465.6	438.8
40°	654.4	656.9	618.6	540.8	480.9	*494.9*	494.9	510.2	515.3	493.6	475.8
42.5°	808.7	793.4	755.1	649.3	543.4	*515.3*	516.6	538.3	565.1	552.3	554.9
45°	942.6	931.1	890.3	788.3	644.1	*582.9*	577.8	605.9	658.2	669.7	699.0
47.5°	1061.3	1049.8	1031.9	936.2	794.7	*701.5*	682.4	710.5	801.0	861.0	881.4
50°	1204.1	1206.7	1165.8	1111.0	959.2	*861.0*	855.9	857.2	1000.0	1049.8	1079.1
52.5°	1385.2	1381.4	1310.0	1280.6	1187.5	*1070.2*	1040.8	1058.7	1200.3	1236.0	1284.5
55°	1514.1	1510.2	1475.8	1470.7	1440.1	*1302.3*	1294.7	1293.4	1421.0	1436.3	1493.7
57.5°	1589.3	1595.7	1619.9	1685.0	1710.5	*1611.0*	1589.3	1547.2	1618.7	1614.8	1677.3
60°	1602.1	1612.3	1681.2	1830.4	1973.3	*1919.7*	1890.4	1780.7	1799.8	1767.9	1806.2
62.5°	1498.8	1528.1	1650.6	1861.0	2105.9	*2177.4*	2153.1	1983.5	1938.8	1872.5	1824.0
65°	*1233.5*	*1246.2*	*1422.2*	*1728.4*	*2091.9*	*2294.7*	*2294.7*	*2127.6*	*1984.7*	*1821.5*	*1685.0*
67.5°	852.1	858.4	1072.7	1394.2	1877.6	*2243.7*	2262.8	2125.1	1904.4	1621.2	1373.8
70°	483.4	519.1	649.3	974.5	1479.6	*1975.8*	1996.2	1933.7	1594.4	1201.6	900.5
72.5°	201.5	224.5	316.3	567.6	1006.4	*1556.2*	1591.9	1533.2	1191.4	733.4	426.0
75°	62.5	65.1	104.6	247.5	549.8	*977.1*	1037.0	1034.5	711.8	343.1	173.5
77.5°	34.4	35.7	49.7	100.8	241.1	*521.7*	558.7	528.1	352.0	148.0	53.6
80°	16.6	17.9	26.8	48.5	105.9	*195.2*	229.6	213.0	122.5	70.2	17.9
82.5°	5.1	6.4	12.8	21.7	42.1	*45.9*	45.9	81.6	62.5	45.9	8.9
85°	0.0	0.0	3.8	7.7	7.7	*7.7*	7.7	17.9	29.3	28.1	3.8
87.5°	0.0	0.0	0.0	0.0	1.3	*1.3*	1.3	1.3	1.3	2.6	1.3
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: P438461
CATALOG NUMBER: ISW-SA1C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3
2.5°	252.6	251.3	246.2	241.1	238.5	236.0	233.4	230.9	230.9	232.1	230.9
5°	255.1	251.3	243.6	236.0	230.9	227.0	221.9	220.7	219.4	220.7	220.7
7.5°	261.5	256.4	244.9	233.4	225.8	219.4	215.6	214.3	211.7	211.7	211.7
10°	271.7	262.8	247.5	234.7	224.5	215.6	204.1	191.3	183.7	178.6	174.7
12.5°	281.9	271.7	251.3	236.0	224.5	199.0	170.9	146.7	133.9	127.6	126.3
15°	293.4	280.6	258.9	241.1	210.5	163.3	125.0	104.6	99.5	99.5	98.2
17.5°	302.3	290.8	265.3	242.4	185.0	122.5	94.4	88.0	89.3	91.8	91.8
20°	316.3	302.3	274.2	230.9	142.9	91.8	82.9	84.2	85.5	86.7	88.0
22.5°	329.1	313.8	284.4	205.4	104.6	79.1	79.1	80.4	81.6	82.9	84.2
25°	344.4	330.4	294.7	168.4	80.4	72.7	74.0	76.5	77.8	79.1	79.1
27.5°	362.3	346.9	294.7	132.7	70.2	67.6	67.6	70.2	71.4	74.0	74.0
30°	386.5	369.9	287.0	98.2	65.1	62.5	61.2	63.8	65.1	67.6	67.6
32.5°	401.8	391.6	270.4	74.0	60.0	57.4	56.1	56.1	57.4	60.0	60.0
35°	417.1	412.0	244.9	63.8	56.1	53.6	51.0	48.5	48.5	48.5	48.5
37.5°	441.3	449.0	207.9	58.7	53.6	49.7	45.9	42.1	39.5	38.3	37.0
40°	491.1	497.5	170.9	54.8	49.7	45.9	39.5	34.4	30.6	28.1	28.1
42.5°	568.9	563.8	130.1	52.3	45.9	40.8	33.2	28.1	23.0	20.4	20.4
45°	704.1	646.7	95.7	48.5	43.4	37.0	28.1	21.7	16.6	15.3	15.3
47.5°	869.9	742.4	72.7	45.9	39.5	31.9	21.7	16.6	12.8	11.5	11.5
50°	1048.5	840.6	60.0	42.1	35.7	26.8	17.9	11.5	8.9	8.9	8.9
52.5°	1216.9	906.9	49.7	38.3	30.6	21.7	12.8	8.9	7.7	7.7	7.7
55°	1373.8	947.7	40.8	33.2	25.5	16.6	10.2	7.7	6.4	5.1	5.1
57.5°	1480.9	941.4	33.2	26.8	19.1	11.5	7.7	6.4	5.1	3.8	3.8
60°	1517.9	885.2	25.5	21.7	14.0	8.9	6.4	5.1	3.8	2.6	2.6
62.5°	1465.6	774.3	20.4	16.6	10.2	7.7	5.1	3.8	2.6	1.3	1.3
65°	*1318.9*	*665.8*	*15.3*	*11.5*	*7.7*	*5.1*	*3.8*	*2.6*	*1.3*	*0.0*	*0.0*
67.5°	1049.8	516.6	12.8	7.7	5.1	3.8	2.6	1.3	0.0	0.0	0.0
70°	656.9	324.0	10.2	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	318.9	159.4	7.7	3.8	2.6	1.3	1.3	0.0	0.0	0.0	0.0
75°	118.6	52.3	6.4	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	38.3	17.9	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0
80°	14.0	7.7	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	3.8	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	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: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

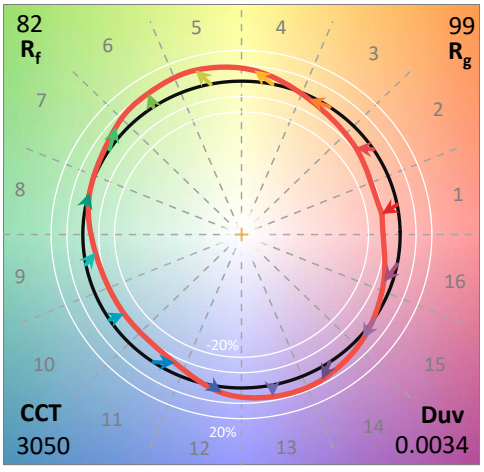
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

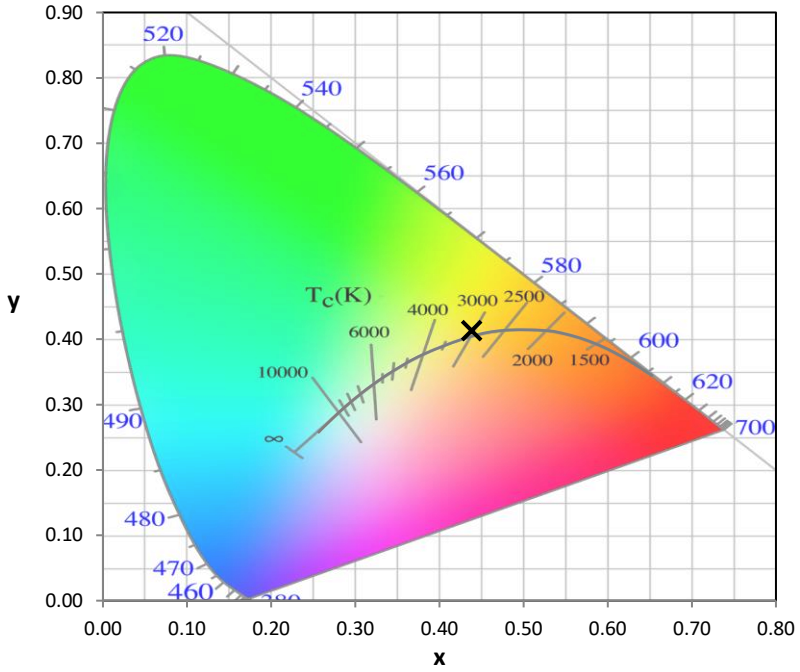
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

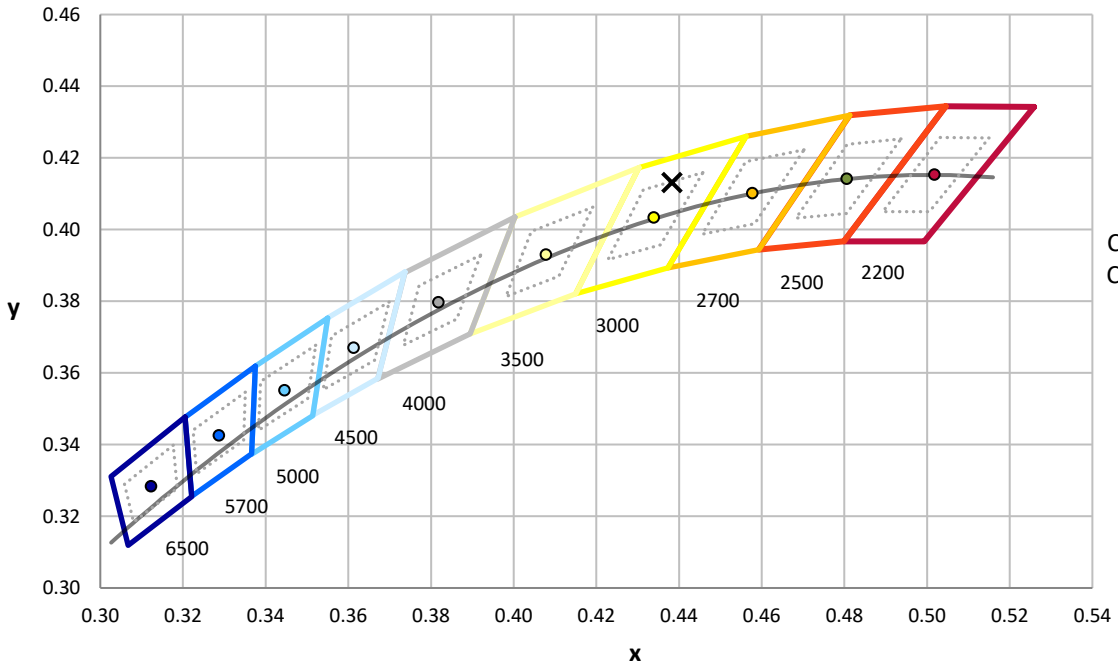
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

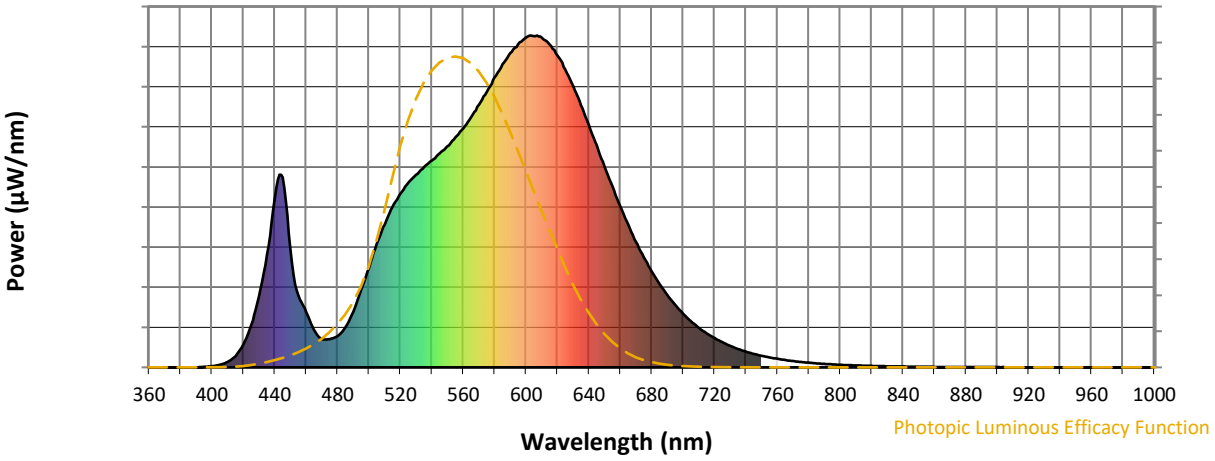


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

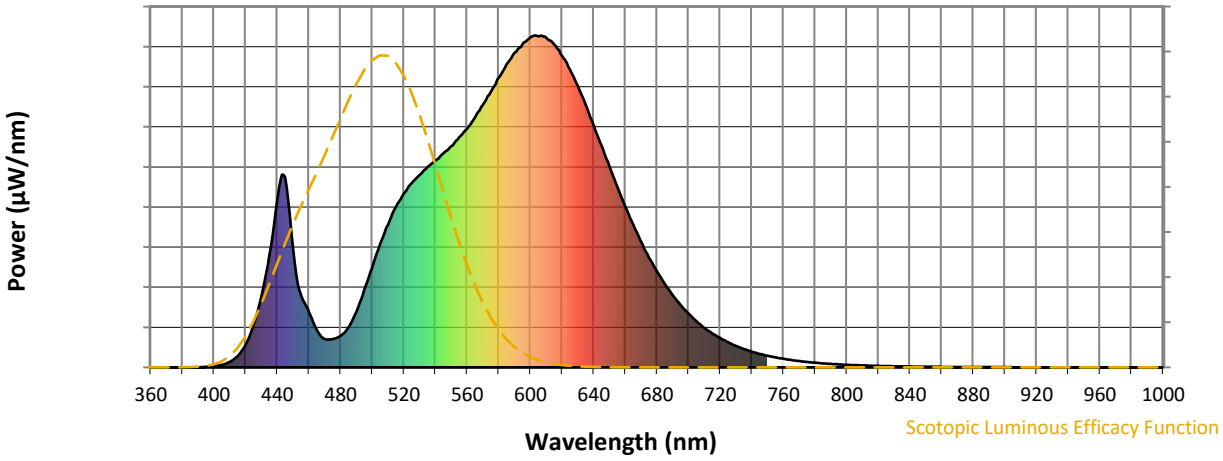


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

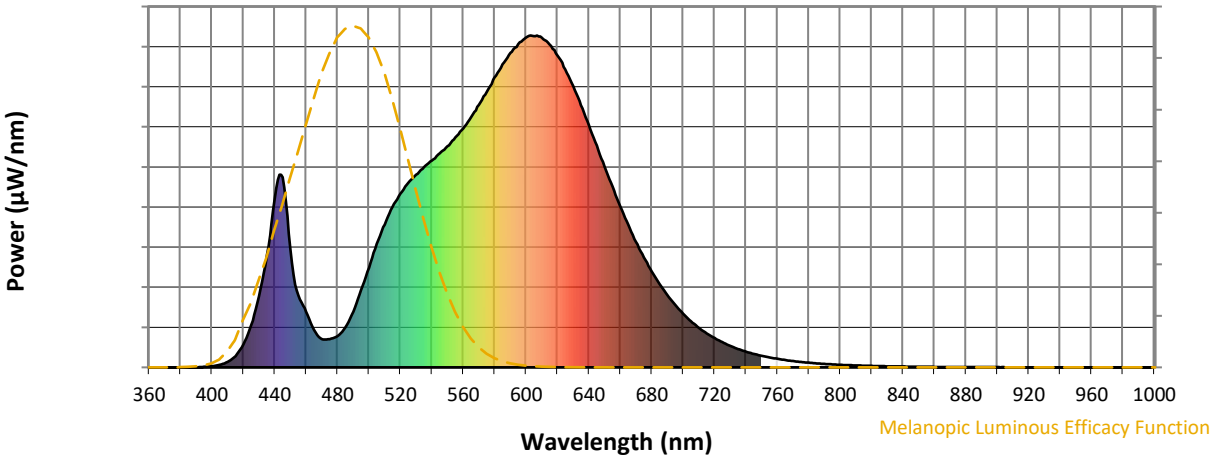


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

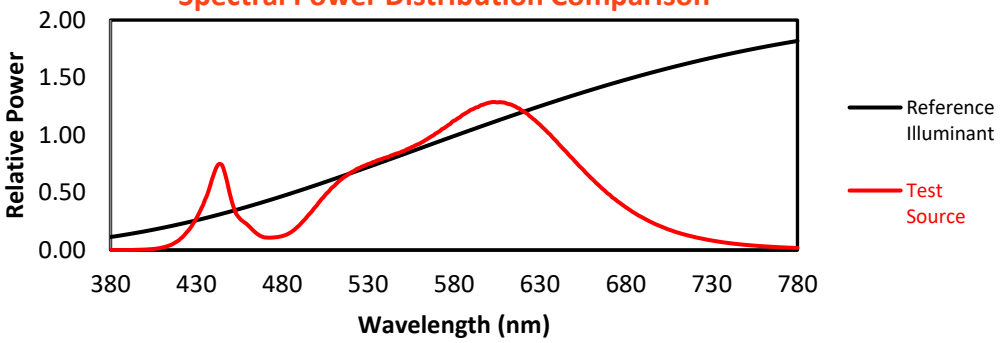
REPORT NUMBER: SP1-2408-195-9

TM-30-18

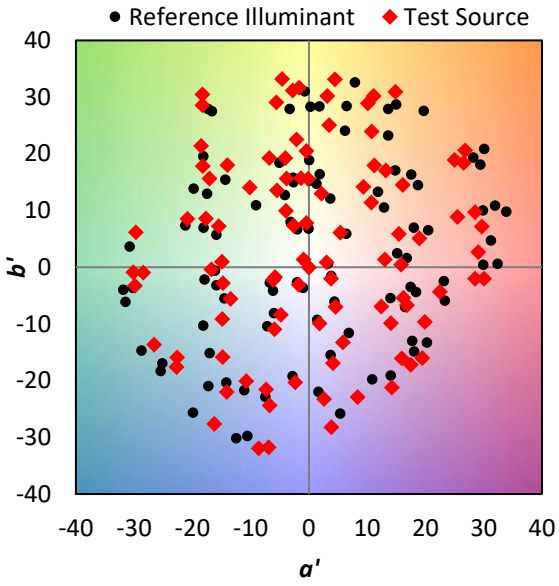
Summary

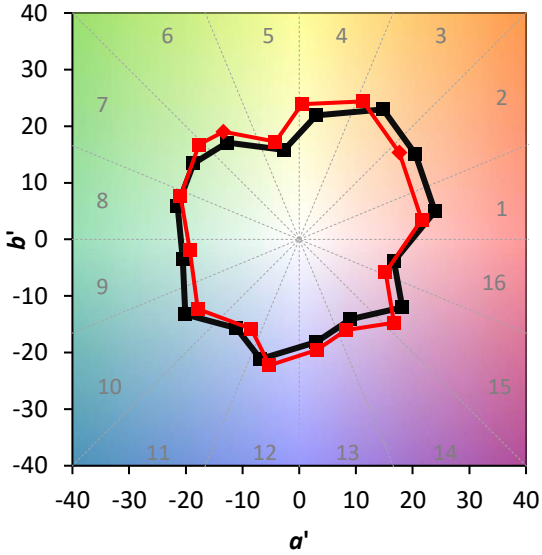
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

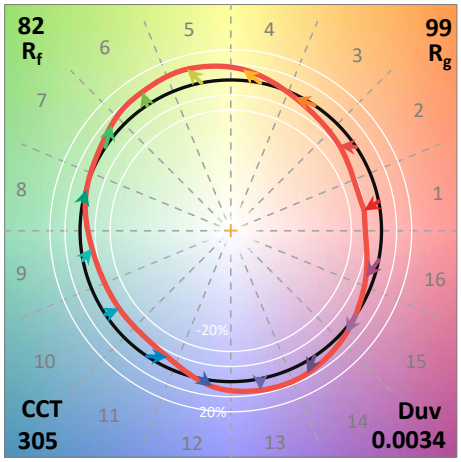
Spectral Power Distribution Comparison

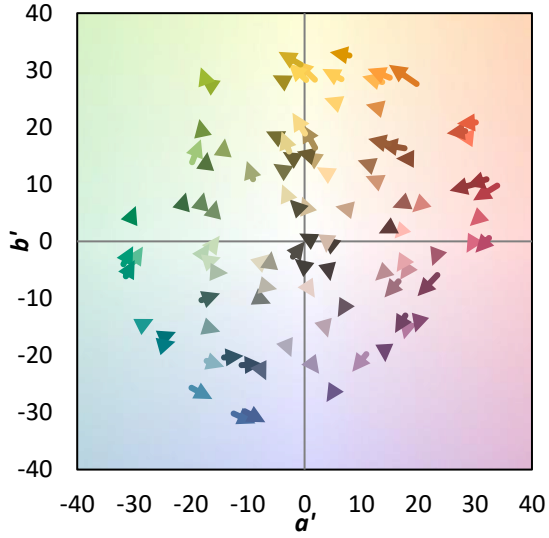


Color Vector Graphics







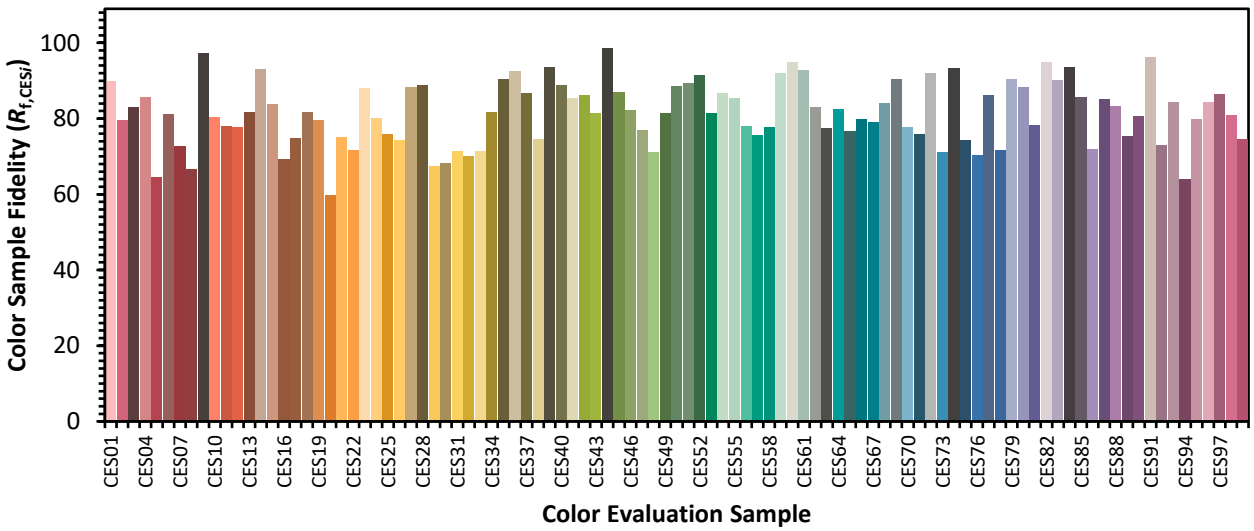


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

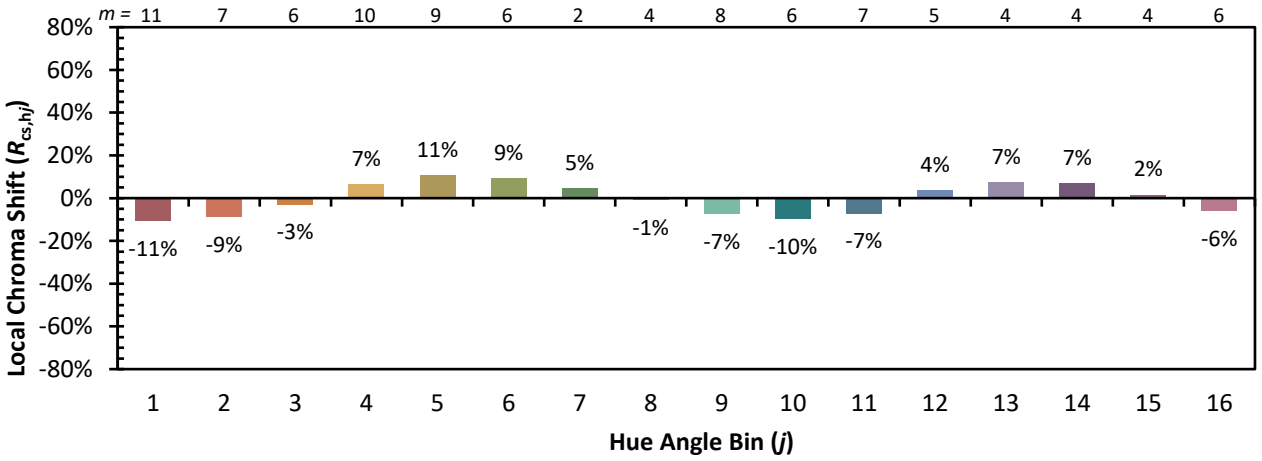
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

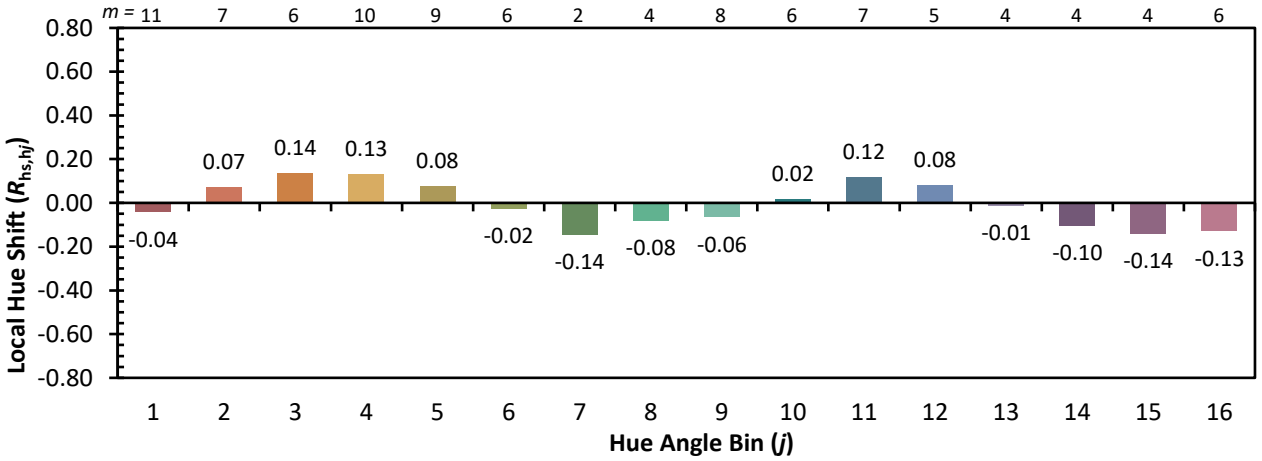


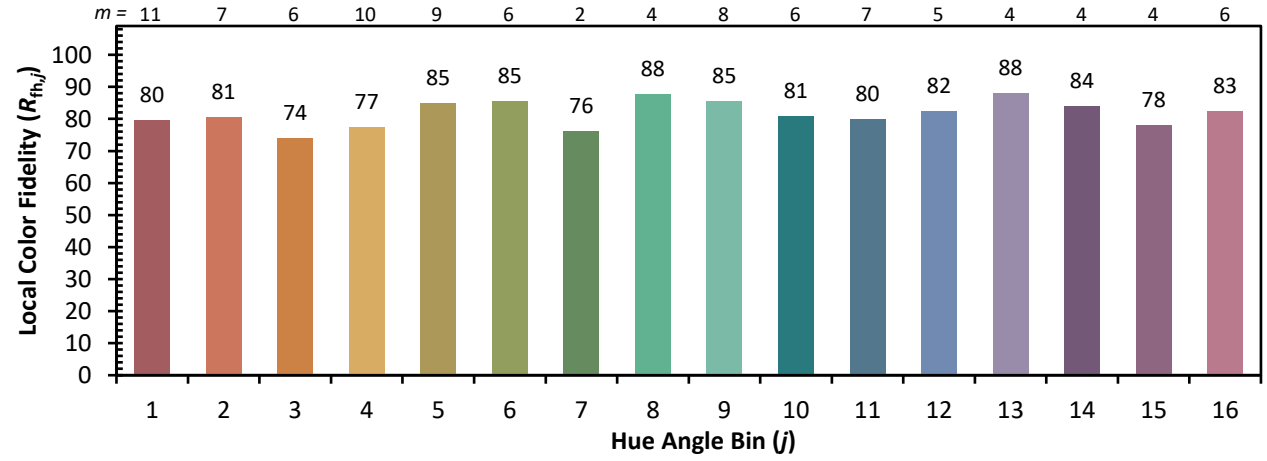
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



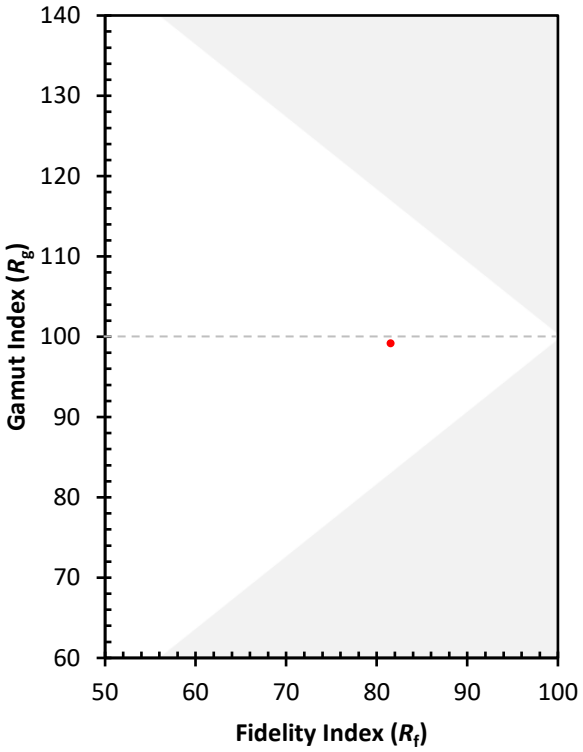


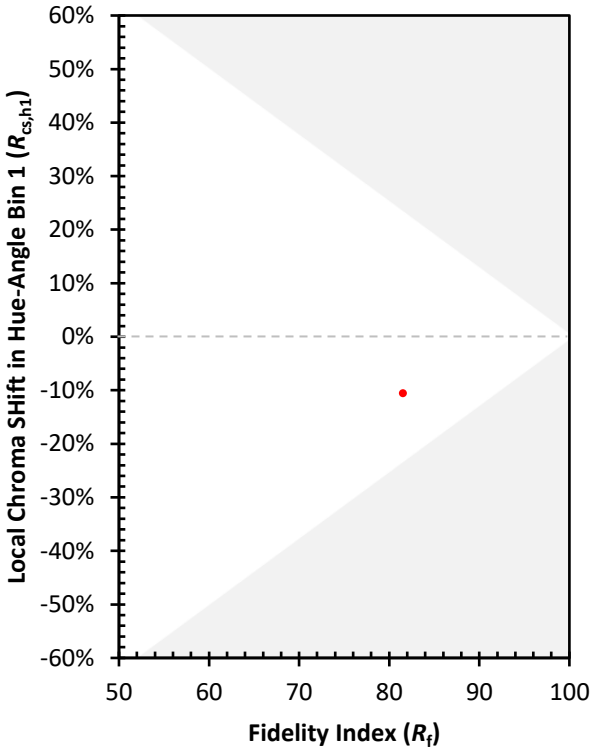


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)