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: P437088

Luminaire Tested: **ISC-SA1A-830-U-T2**

Issue Date: 12/9/2020

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:	P437088
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-1)
Test Lab:	INNOVATION CENTER
Issue Date:	12/9/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISC-SA1A-830-U-T2
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2227 lumens
Efficiency:	N/A
Efficacy:	110.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G1

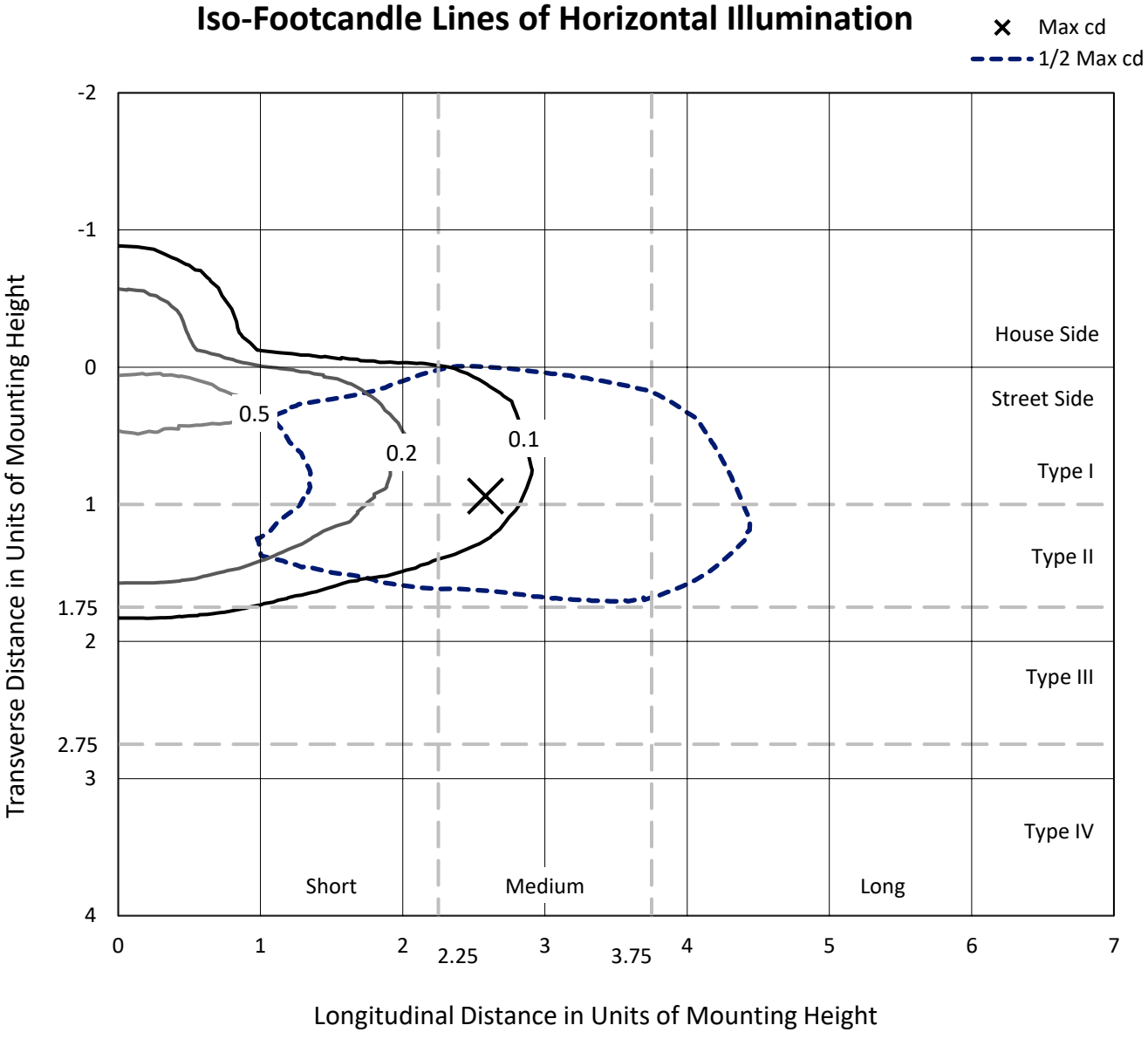
Input Watts (W):	20.1
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P437088
CATALOG NUMBER: ISC-SA1A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination



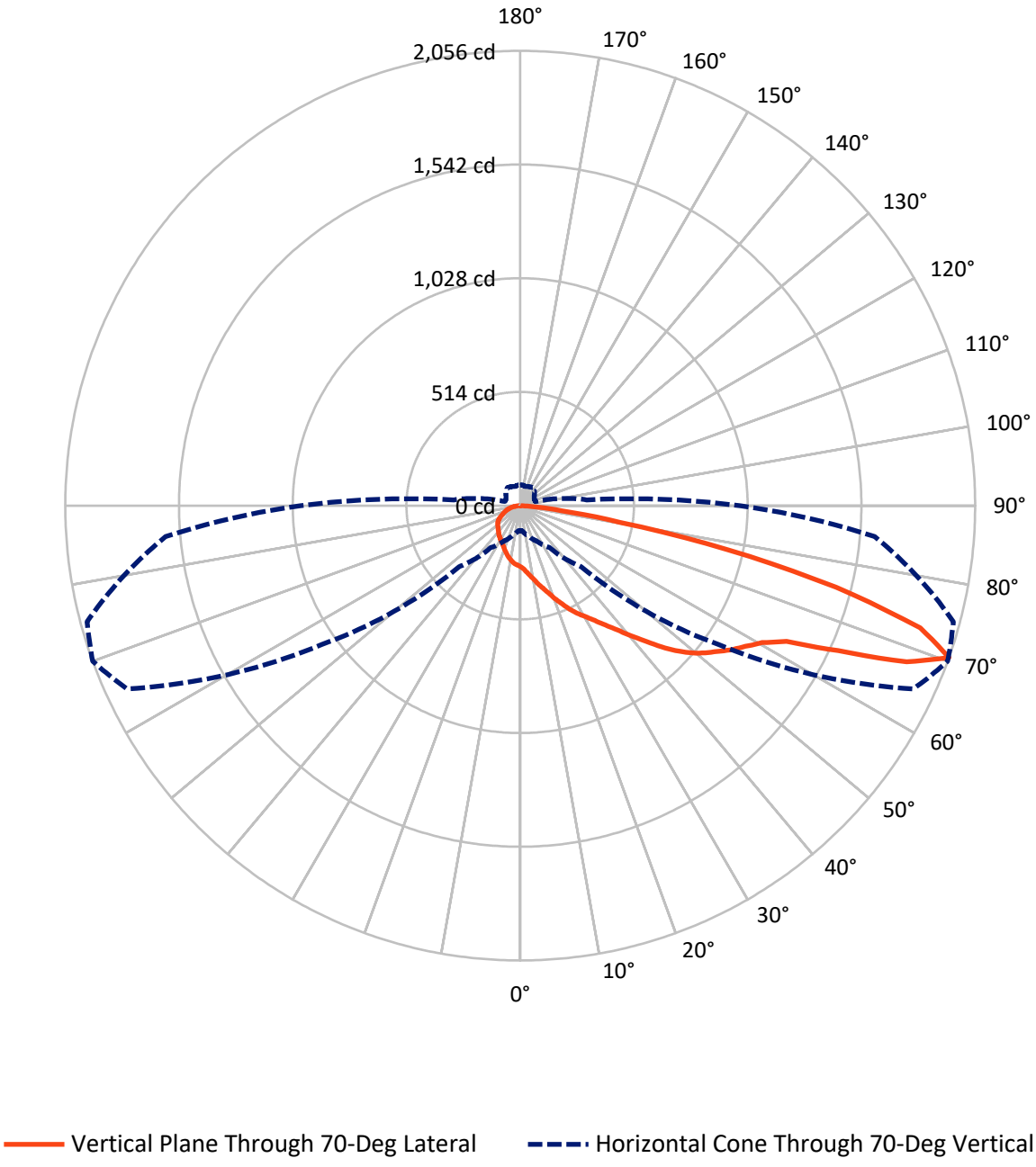
Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
Type II - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P437088
CATALOG NUMBER: ISC-SA1A-830-U-T2

Luminous Intensity Polar Plot



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

Scaled Data Report

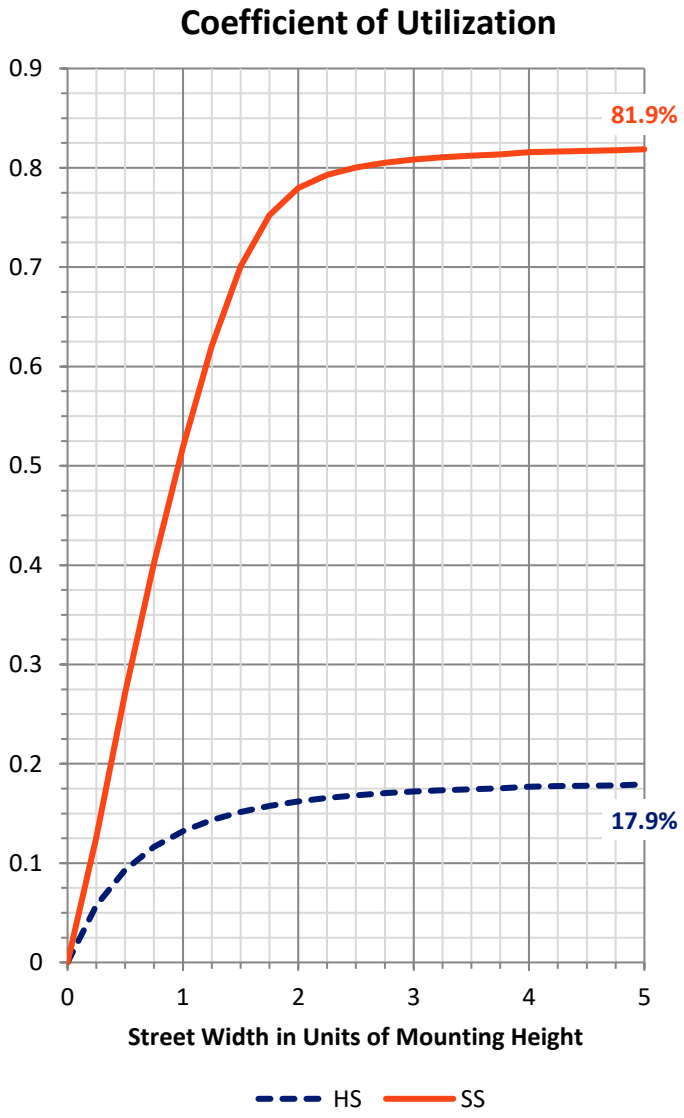
REPORT NUMBER: P437088
CATALOG NUMBER: ISC-SA1A-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	402.8	0.0	402.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	1824.2	0.0	1824.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	2227.0	0.0	2227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	1.2
10°-20°	89.1	4.0
20°-30°	155.8	7.0
30°-40°	231.8	10.4
40°-50°	342.8	15.4
50°-60°	483.1	21.7
60°-70°	537.7	24.1
70°-80°	325.2	14.6
80°-90°	33.8	1.5
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°	2227.0	100.0
0°-180°	2227.0	100.0



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

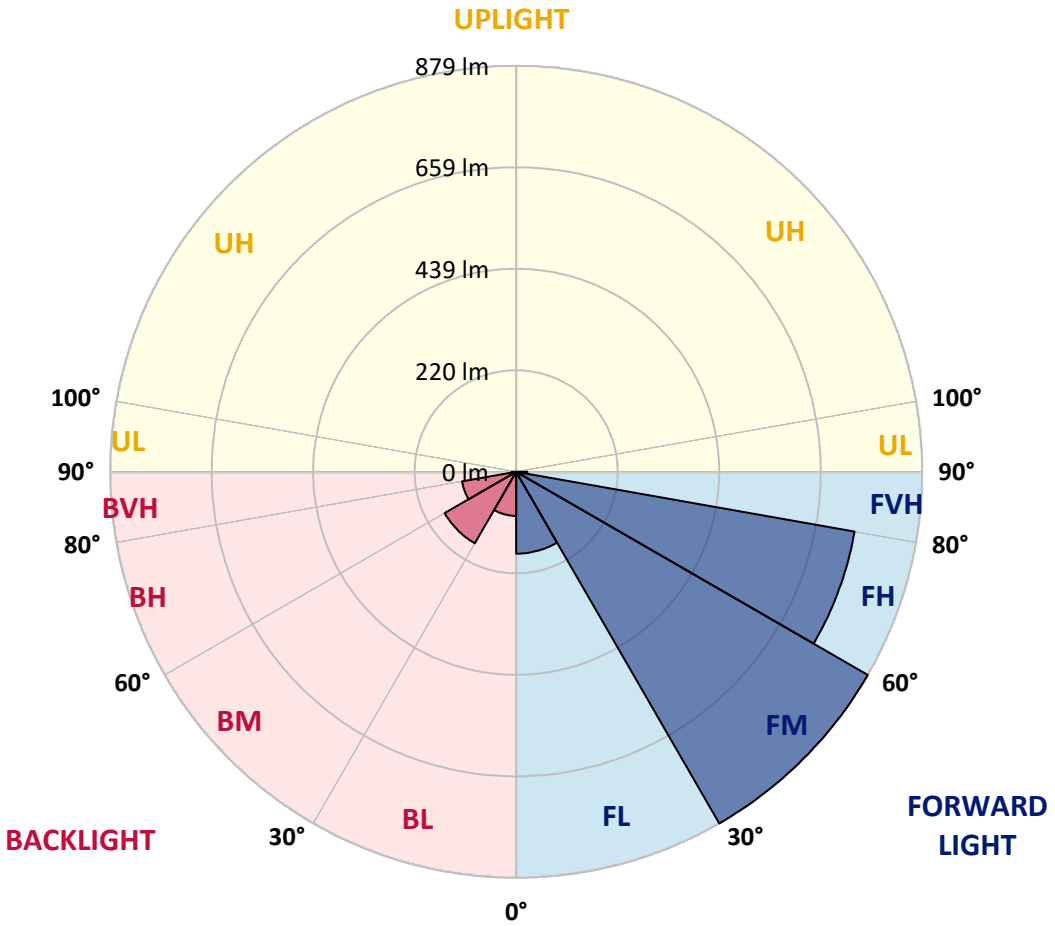
Scaled Data Report

REPORT NUMBER: P437088
CATALOG NUMBER: ISC-SA1A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	177.2	8.0			
FM	(30°-60°)	879.0	39.5			
FH	(60°-80°)	744.0	33.4			G1/1800
FVH	(80°-90°)	24.1	1.1			G1/100
BL	(0°-30°)	95.4	4.3	B0/110		
BM	(30°-60°)	178.8	8.0	B0/220		
BH	(60°-80°)	118.9	5.3	B1/500		G1/500
BVH	(80°-90°)	9.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Medium



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

Scaled Data Report

REPORT NUMBER: P437088
CATALOG NUMBER: ISC-SA1A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	*275.8*	275.8	275.8
2.5°	308.4	307.6	303.7	305.3	302.9	298.1	293.3	290.1	*286.2*	285.4	281.4
5°	340.2	339.4	337.0	333.9	329.1	323.5	314.8	306.8	*300.5*	294.9	287.8
7.5°	362.5	360.9	360.9	359.3	356.9	350.6	338.6	328.3	*318.8*	311.6	295.7
10°	375.2	375.2	375.2	378.4	378.4	373.6	364.1	349.8	*338.6*	329.9	306.8
12.5°	380.8	380.8	382.4	387.1	394.3	394.3	386.3	375.2	*364.1*	349.0	318.8
15°	384.7	385.5	387.9	395.1	405.4	412.6	412.6	402.2	*387.1*	372.8	333.9
17.5°	388.7	389.5	394.3	403.0	415.0	428.5	436.4	429.3	*415.7*	399.8	348.2
20°	389.5	388.7	396.7	408.6	426.1	442.0	461.9	463.4	*449.1*	426.1	364.9
22.5°	397.5	397.5	400.6	412.6	431.6	454.7	484.9	493.6	*480.9*	461.1	385.5
25°	413.4	416.5	418.9	422.9	437.2	465.0	504.8	529.4	*517.5*	495.2	407.0
27.5°	442.8	442.8	445.2	444.4	449.1	473.8	525.4	563.6	*551.7*	522.3	420.5
30°	471.4	469.8	472.2	472.2	470.6	484.1	540.5	595.4	*582.7*	554.1	436.4
32.5°	508.8	509.5	508.0	500.8	498.4	503.2	552.5	625.6	*618.5*	585.1	450.7
35°	559.6	560.4	551.7	536.6	528.6	529.4	568.4	661.4	*662.2*	627.2	468.2
37.5°	604.1	608.1	607.3	579.5	566.0	562.8	592.2	697.9	*712.3*	675.7	495.2
40°	645.5	651.0	649.5	626.4	608.9	601.0	629.6	740.1	*773.5*	736.1	527.8
42.5°	675.7	678.9	680.5	664.6	648.7	652.6	668.5	787.8	*840.2*	802.9	571.6
45°	708.3	709.9	712.3	703.5	692.4	711.5	717.0	839.4	*918.1*	888.7	623.2
47.5°	741.7	748.0	750.4	740.9	733.7	764.7	769.5	889.5	*987.3*	973.0	674.9
50°	795.7	802.1	799.7	788.6	782.2	806.1	816.4	934.8	*1048.5*	1058.0	725.0
52.5°	865.7	869.6	880.0	860.9	846.6	837.9	855.3	984.9	*1097.8*	1132.8	778.2
55°	879.2	884.8	922.1	939.6	951.5	885.5	896.7	1029.4	*1151.1*	1203.5	837.9
57.5°	823.5	826.7	887.1	940.4	1026.2	1003.2	955.5	1086.7	*1200.3*	1276.6	898.3
60°	685.2	697.1	775.8	869.6	1005.6	1123.2	1108.1	1160.6	*1256.0*	1349.8	985.7
62.5°	446.7	457.9	541.3	700.3	891.9	1124.8	1326.7	1311.6	*1350.6*	1438.8	1095.4
65°	228.1	232.1	304.5	424.5	643.1	1005.6	1457.9	1623.2	*1578.7*	1616.9	1333.1
67.5°	151.8	155.0	187.6	244.8	382.4	696.4	1415.0	1938.0	*1884.0*	1904.6	1585.9
70°	*112.1*	*115.3*	*142.3*	*177.3*	*231.3*	*390.3*	*1094.6*	*1960.3*	2055.7	*2026.3*	*1608.1*
72.5°	83.5	84.3	101.0	136.7	170.9	209.9	647.1	1617.7	*1889.5*	1996.1	1494.5
75°	63.6	63.6	72.3	101.0	133.5	135.1	360.9	1194.8	*1473.8*	1669.3	1246.4
77.5°	47.7	49.3	53.3	70.0	99.4	97.0	170.1	790.9	*958.7*	1088.3	767.1
80°	34.2	35.0	37.4	42.9	66.0	62.8	85.9	381.6	*457.1*	486.5	313.2
82.5°	21.5	21.5	26.2	26.2	37.4	39.0	39.0	154.2	*184.4*	206.7	104.9
85°	4.0	4.0	7.9	10.3	11.9	13.5	11.9	39.0	*53.3*	62.8	35.8
87.5°	0.0	0.0	0.0	0.8	0.8	1.6	1.6	1.6	*1.6*	1.6	1.6
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: P437088
CATALOG NUMBER: ISC-SA1A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	278.2	276.6	272.7	267.9	264.7	261.5	259.1	257.6	256.8	256.8	256.0
5°	282.2	277.4	269.5	261.5	254.4	248.8	244.8	242.5	240.9	241.7	240.1
7.5°	288.6	279.8	265.5	252.8	243.2	236.1	232.9	231.3	232.1	232.9	232.9
10°	293.3	281.4	258.4	240.9	232.1	228.1	227.3	228.9	231.3	232.1	231.3
12.5°	298.9	282.2	250.4	230.5	225.0	222.6	226.6	230.5	234.5	237.7	236.1
15°	307.6	282.2	240.9	221.8	217.8	220.2	227.3	232.9	240.1	243.2	244.0
17.5°	314.0	279.8	228.9	212.2	211.4	217.8	228.1	237.7	244.8	250.4	250.4
20°	320.4	275.8	217.0	203.5	206.7	215.4	227.3	238.5	247.2	252.8	254.4
22.5°	328.3	270.3	205.1	195.6	201.1	212.2	225.0	234.5	242.5	247.2	248.0
25°	333.9	260.7	193.2	189.2	197.9	208.3	217.8	224.2	228.1	231.3	231.3
27.5°	337.0	249.6	183.6	184.4	194.0	202.7	207.5	207.5	209.1	209.1	208.3
30°	333.1	237.7	176.5	179.7	188.4	194.8	196.3	193.2	188.4	183.6	182.0
32.5°	331.5	221.8	169.3	174.9	181.2	184.4	183.6	178.9	170.1	163.0	163.0
35°	328.3	206.7	163.0	169.3	173.3	174.1	172.5	165.3	157.4	151.0	150.2
37.5°	325.9	194.8	157.4	163.0	165.3	166.1	163.0	156.6	151.8	147.1	146.3
40°	333.1	184.4	151.8	155.8	157.4	157.4	154.2	149.4	151.8	151.0	151.0
42.5°	346.6	180.4	146.3	148.7	150.2	151.8	149.4	145.5	151.0	146.3	147.9
45°	366.5	180.4	142.3	143.1	144.7	148.7	147.9	142.3	143.1	132.0	129.6
47.5°	395.9	185.2	139.1	136.7	140.7	146.3	143.9	137.5	131.2	122.4	121.6
50°	429.3	194.8	135.9	130.4	136.7	143.1	140.7	132.8	125.6	120.8	120.0
52.5°	462.6	206.7	133.5	124.0	129.6	141.5	140.7	132.0	121.6	118.4	117.6
55°	504.0	217.8	129.6	116.9	124.0	139.9	139.9	127.2	119.2	118.4	117.6
57.5°	550.9	232.1	123.2	107.3	116.9	135.1	134.3	124.0	117.6	116.1	116.9
60°	611.3	249.6	113.7	98.6	110.5	128.0	129.6	120.8	114.5	113.7	113.7
62.5°	713.8	282.2	102.5	90.6	102.5	118.4	122.4	115.3	110.5	111.3	112.1
65°	911.0	343.4	89.8	83.5	94.6	108.1	116.1	109.7	104.9	108.1	108.1
67.5°	1057.2	370.4	79.5	76.3	86.6	100.2	108.9	103.3	98.6	102.5	102.5
70°	*993.7*	*301.3*	*71.5*	*70.0*	*77.9*	*91.4*	*99.4*	*94.6*	*89.8*	*93.8*	*93.0*
72.5°	882.4	239.3	62.8	62.8	69.2	81.1	89.8	85.1	78.7	80.3	79.5
75°	772.7	221.8	54.8	54.8	60.4	70.0	77.1	74.7	68.4	67.6	66.0
77.5°	446.0	147.9	46.1	46.9	49.3	58.0	65.2	58.0	53.3	52.5	51.7
80°	175.7	72.3	37.4	36.6	36.6	43.7	46.9	43.7	39.7	39.0	37.4
82.5°	63.6	36.6	28.6	25.4	26.2	31.8	36.6	34.2	31.0	24.6	23.1
85°	24.6	18.3	19.1	15.1	16.7	16.7	19.1	15.9	11.1	7.9	7.9
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.0	0.0	0.8	0.8	0.8
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

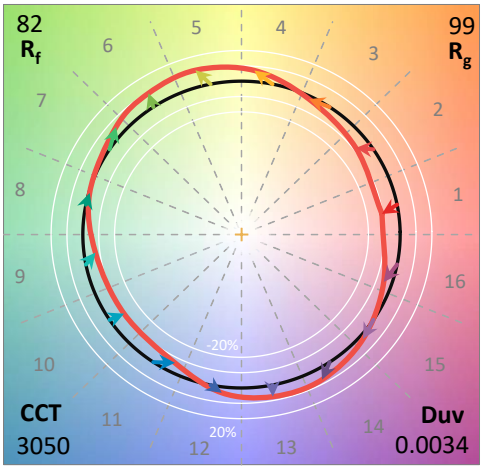
Test Information

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

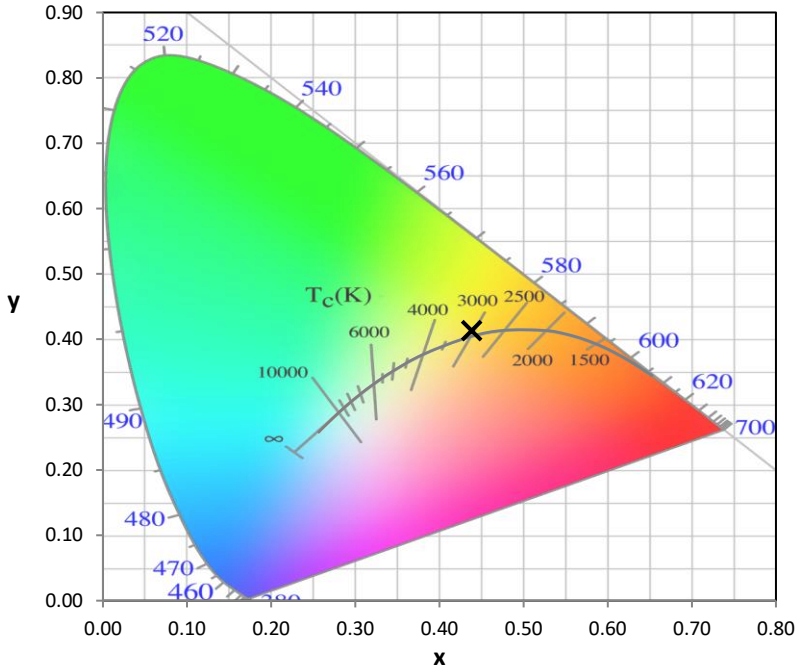
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

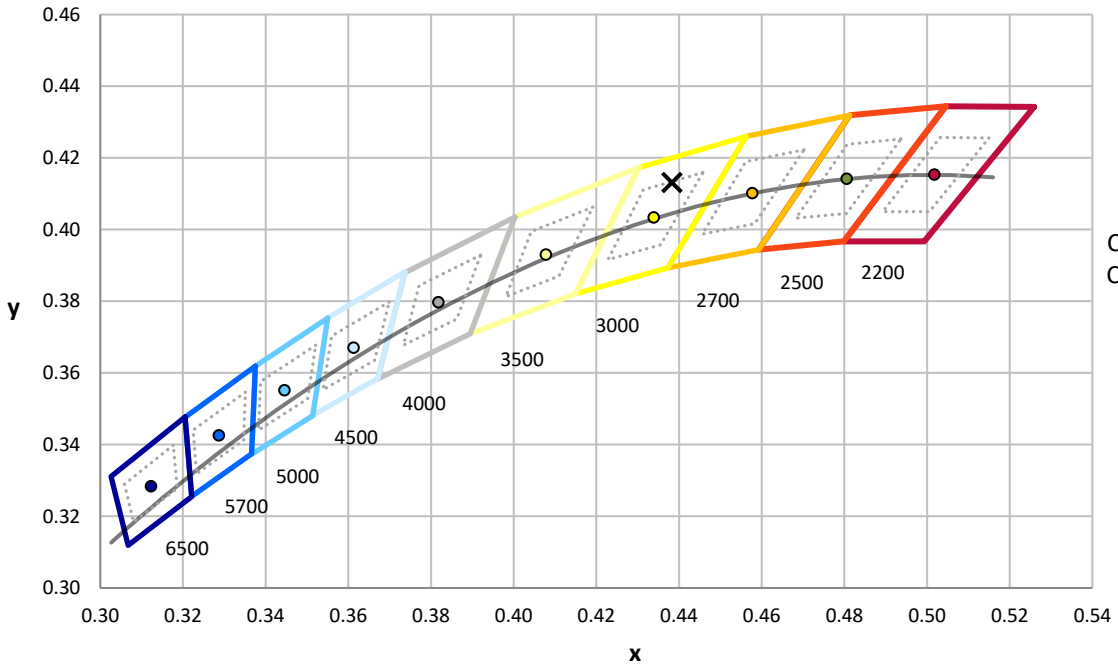
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

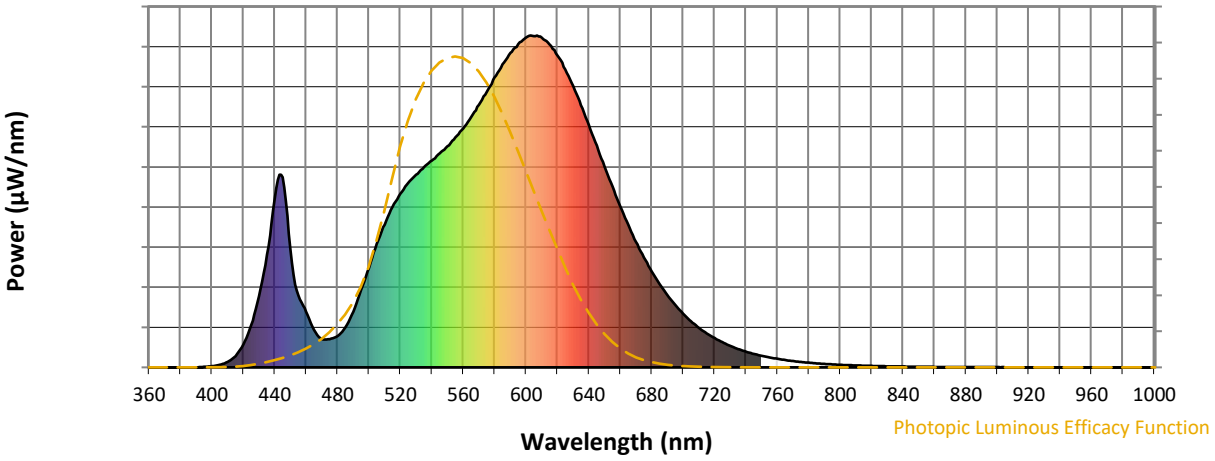


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

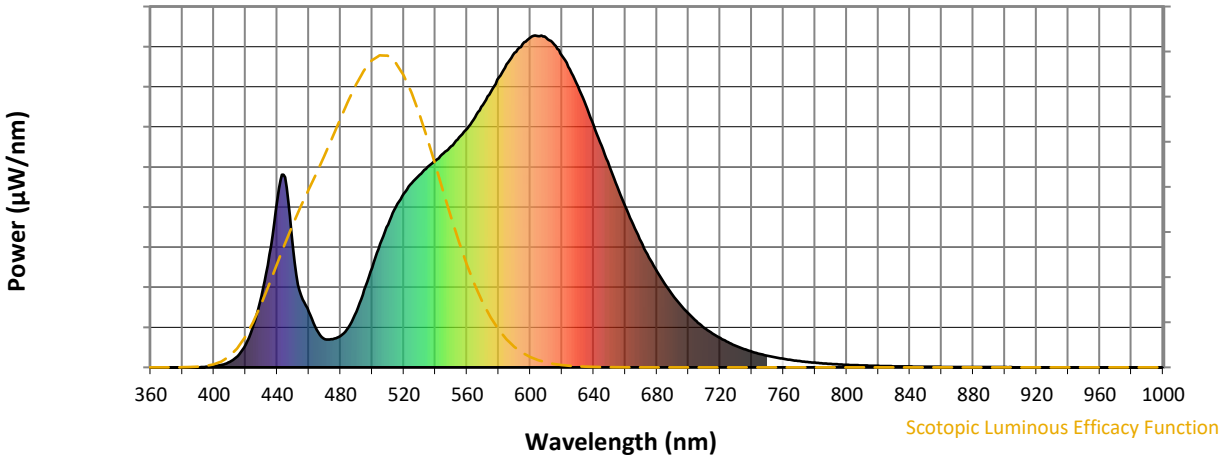


Photopic Lumens: NR

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

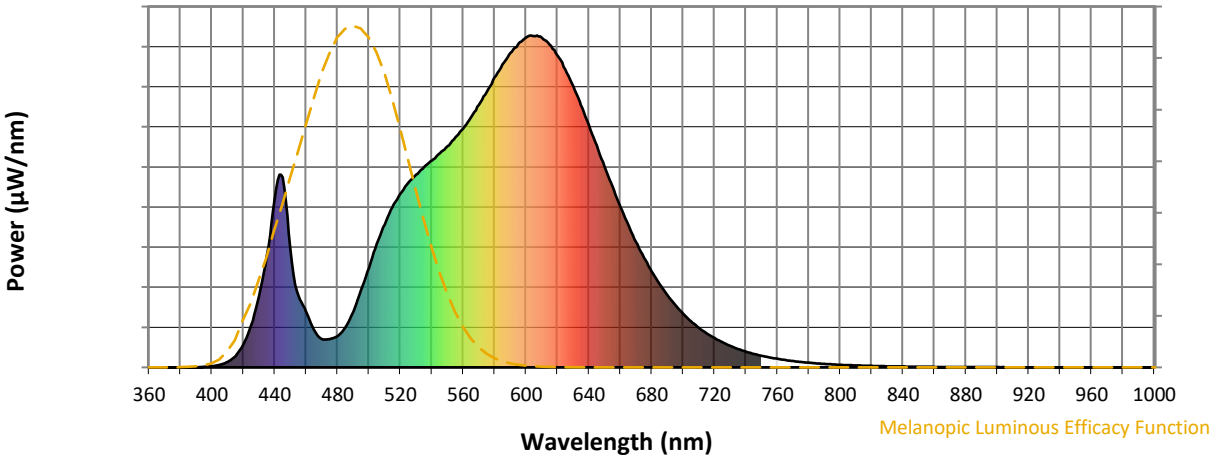


Scotopic Lumens: NR **S/P: 1.27**

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			

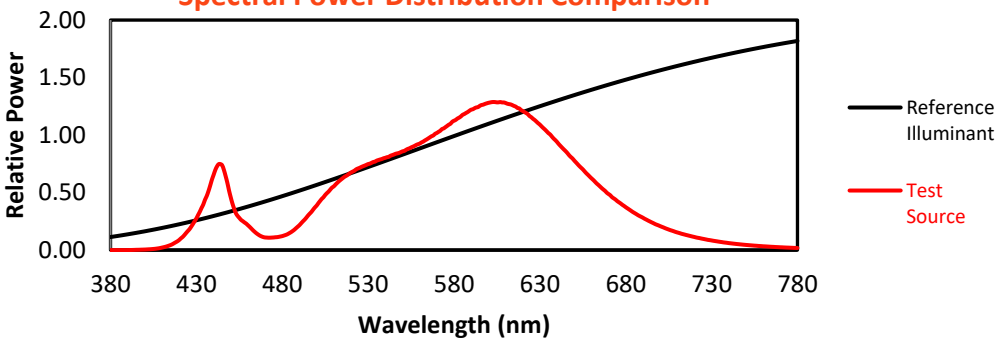
REPORT NUMBER: SP1-2408-195-9

TM-30-18

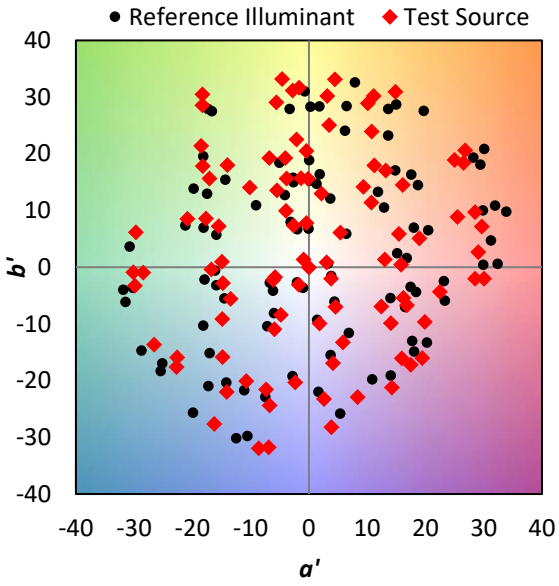
Summary

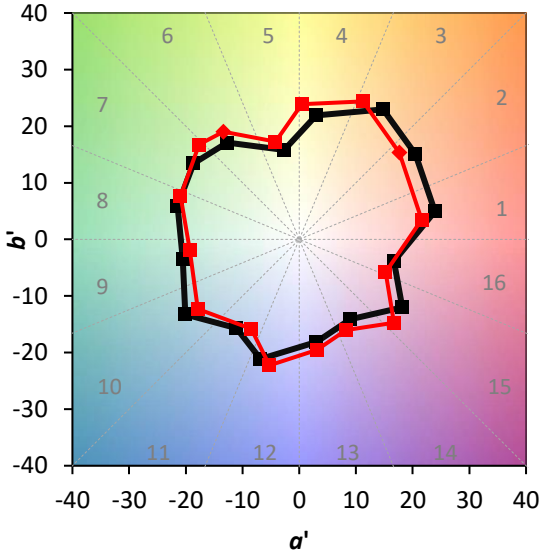
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

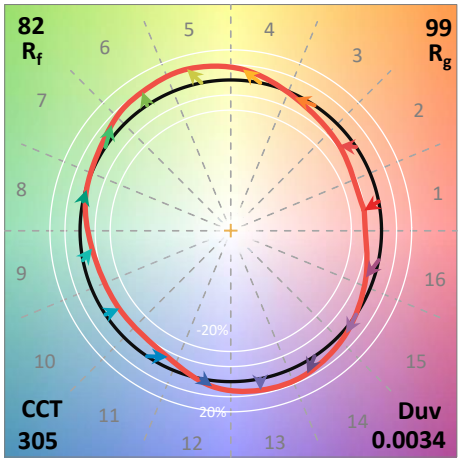
Spectral Power Distribution Comparison

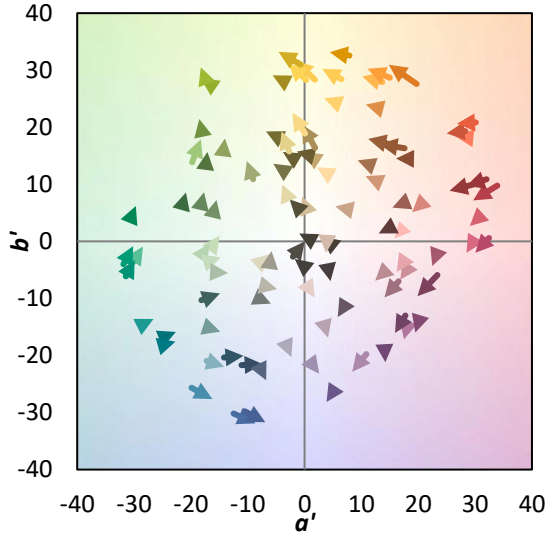


Color Vector Graphics







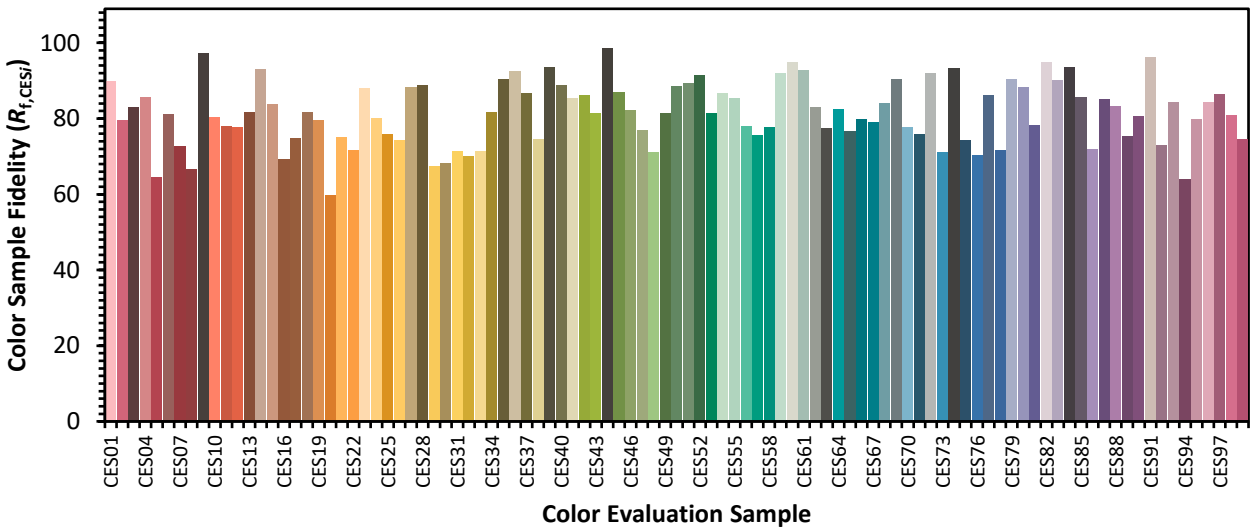


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

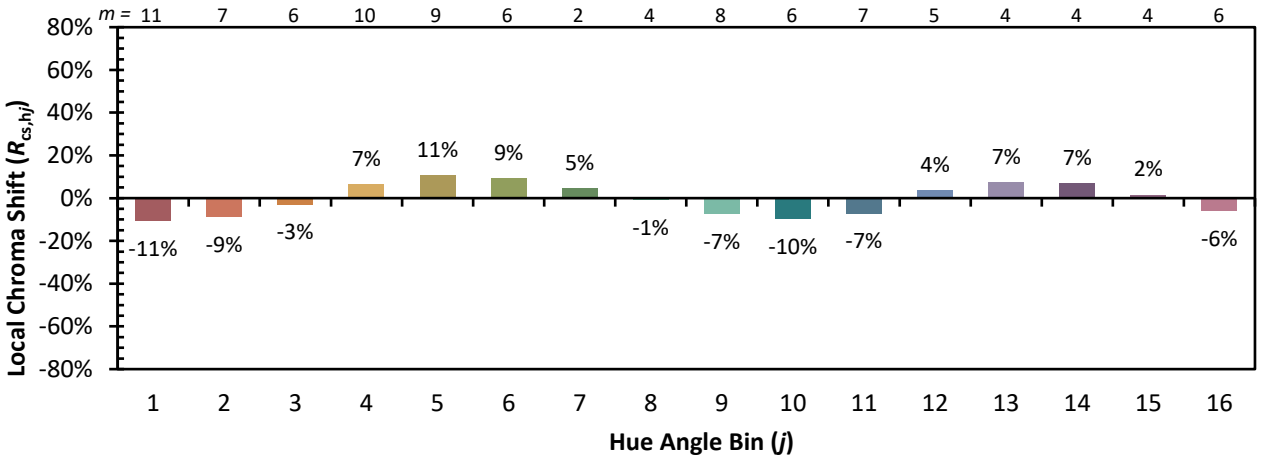
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

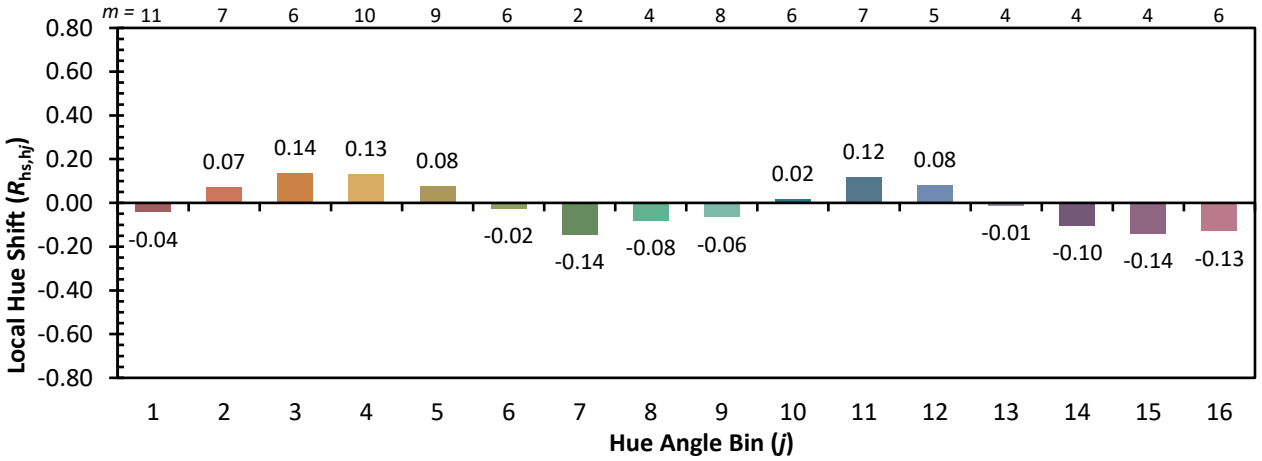


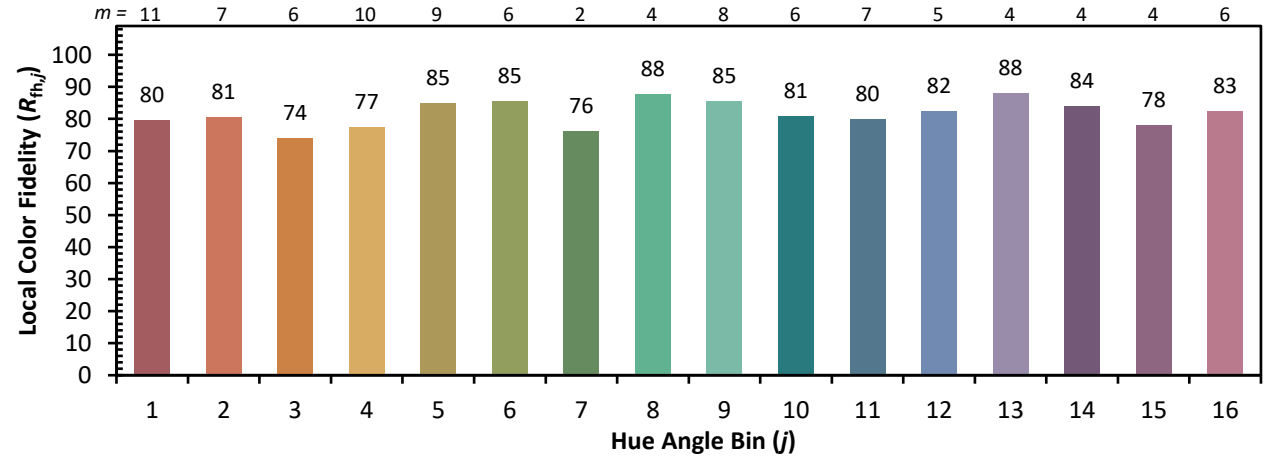
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



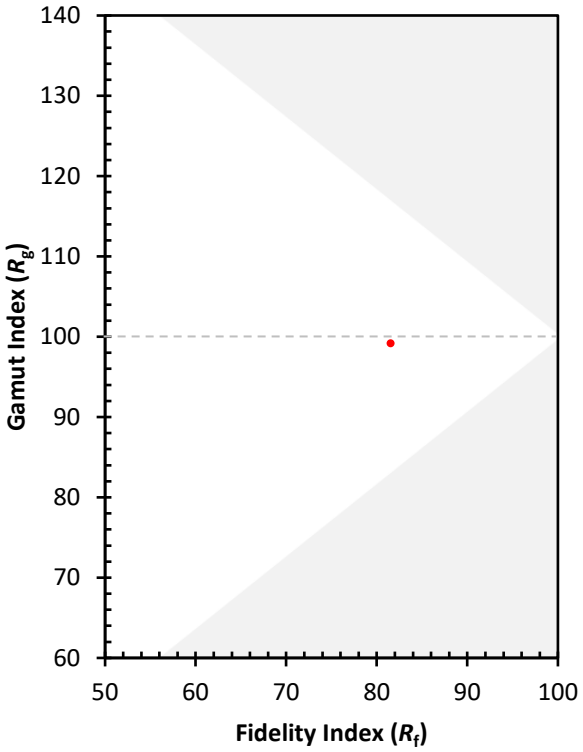


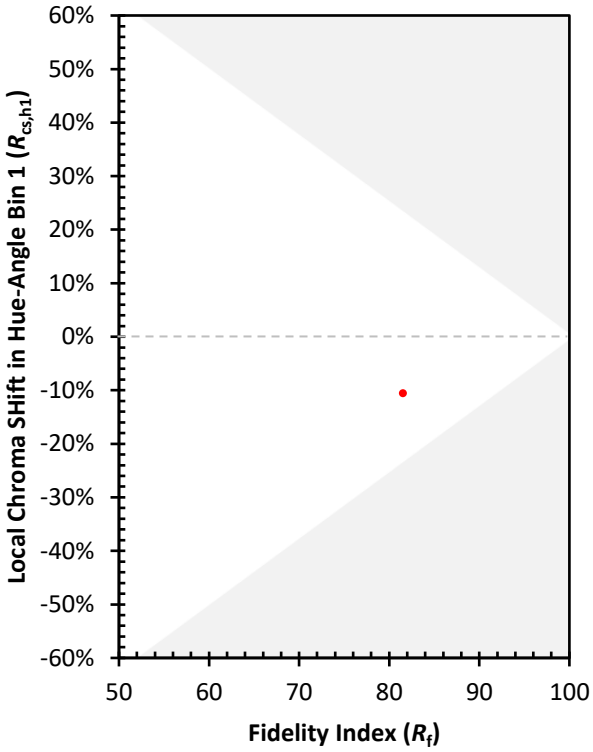


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)