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: P437093

Luminaire Tested: **ISC-SA1A-830-U-T4W-HSS**

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:	P437093
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-13)
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-T4W-HSS
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 350mA 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:	1643 lumens
Efficiency:	N/A
Efficacy:	81.7 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):	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

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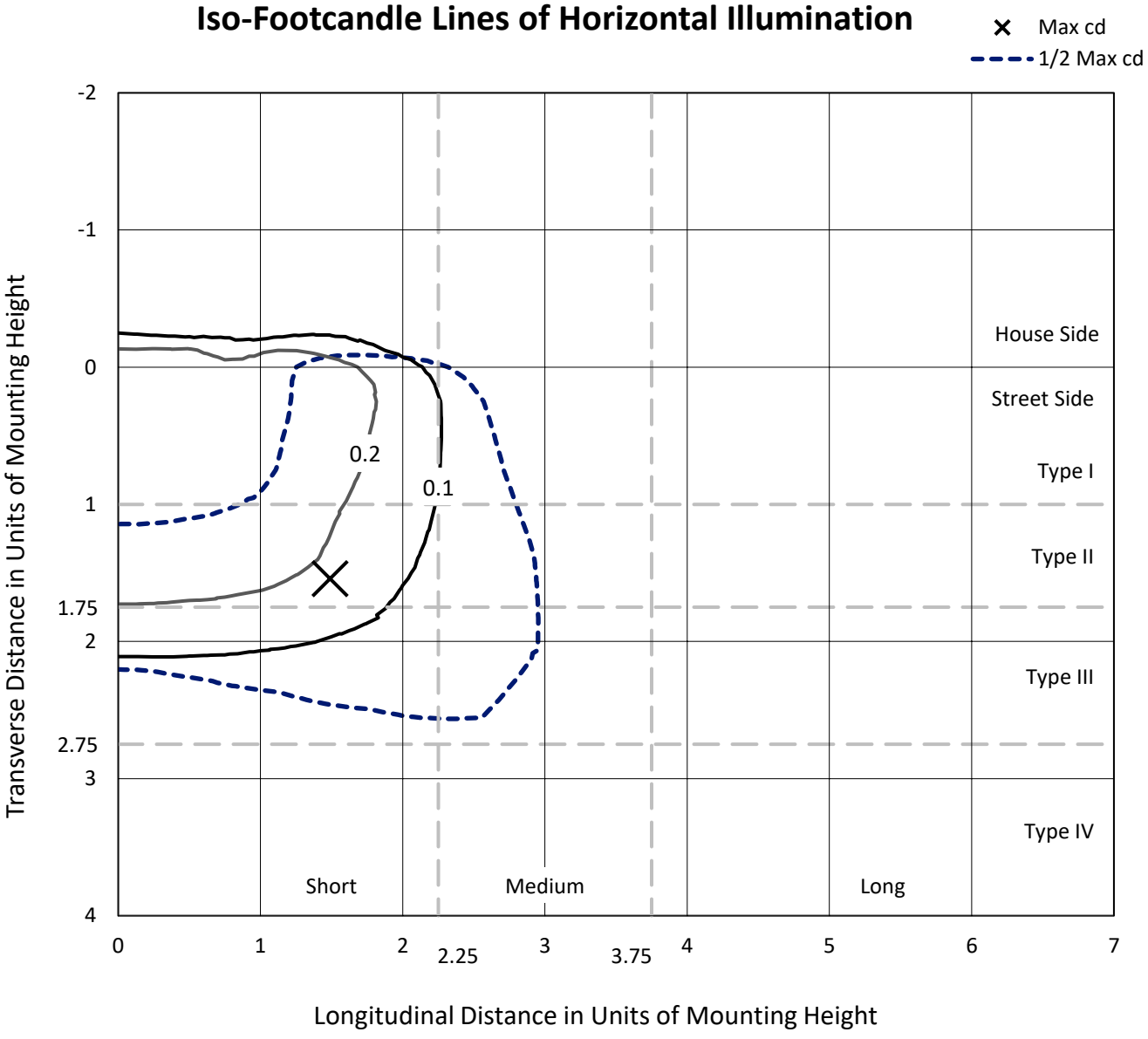
REPORT NUMBER: P437093
CATALOG NUMBER: ISC-SA1A-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
Type III - Short - N/A

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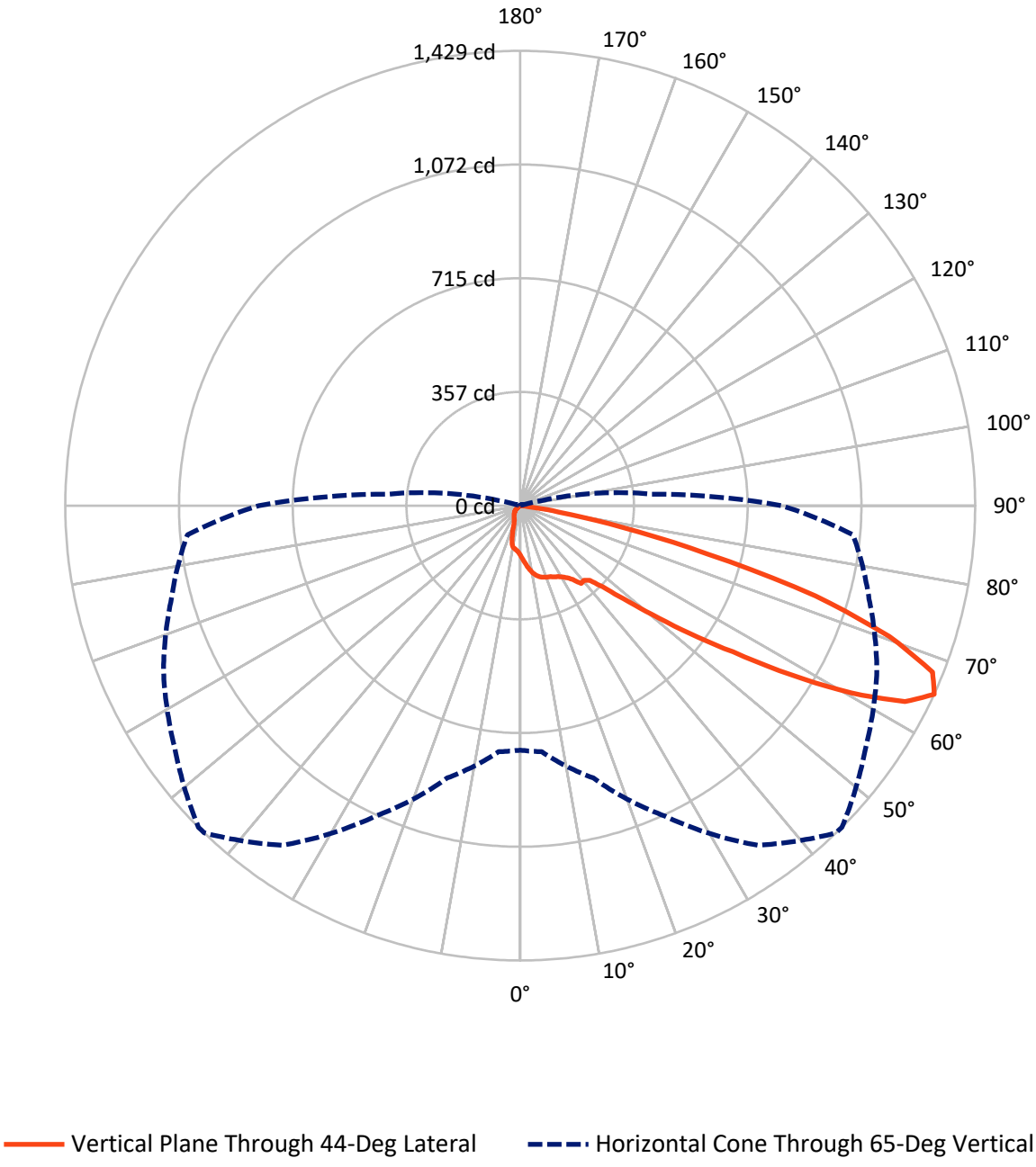
Luminous Intensity Polar Plot



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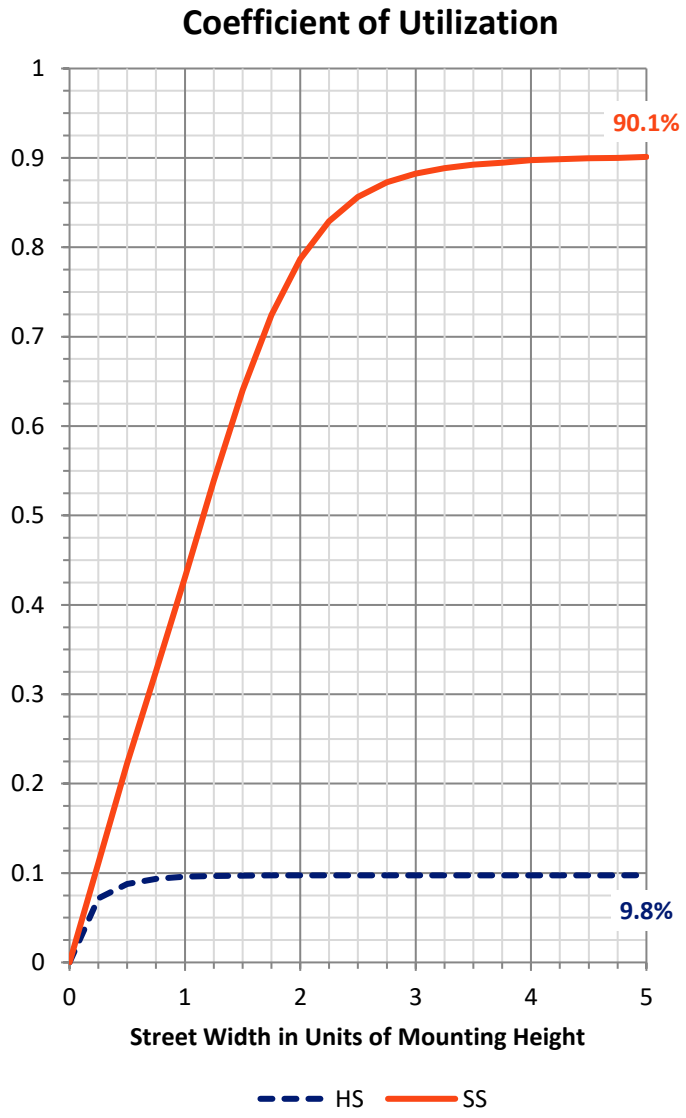
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	161.6	0.0	161.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	1481.4	0.0	1481.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	1643.0	0.0	1643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	1.0
10°-20°	47.8	2.9
20°-30°	76.6	4.7
30°-40°	113.7	6.9
40°-50°	207.3	12.6
50°-60°	434.6	26.5
60°-70°	553.2	33.7
70°-80°	185.7	11.3
80°-90°	8.3	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°	1643.0	100.0
0°-180°	1643.0	100.0



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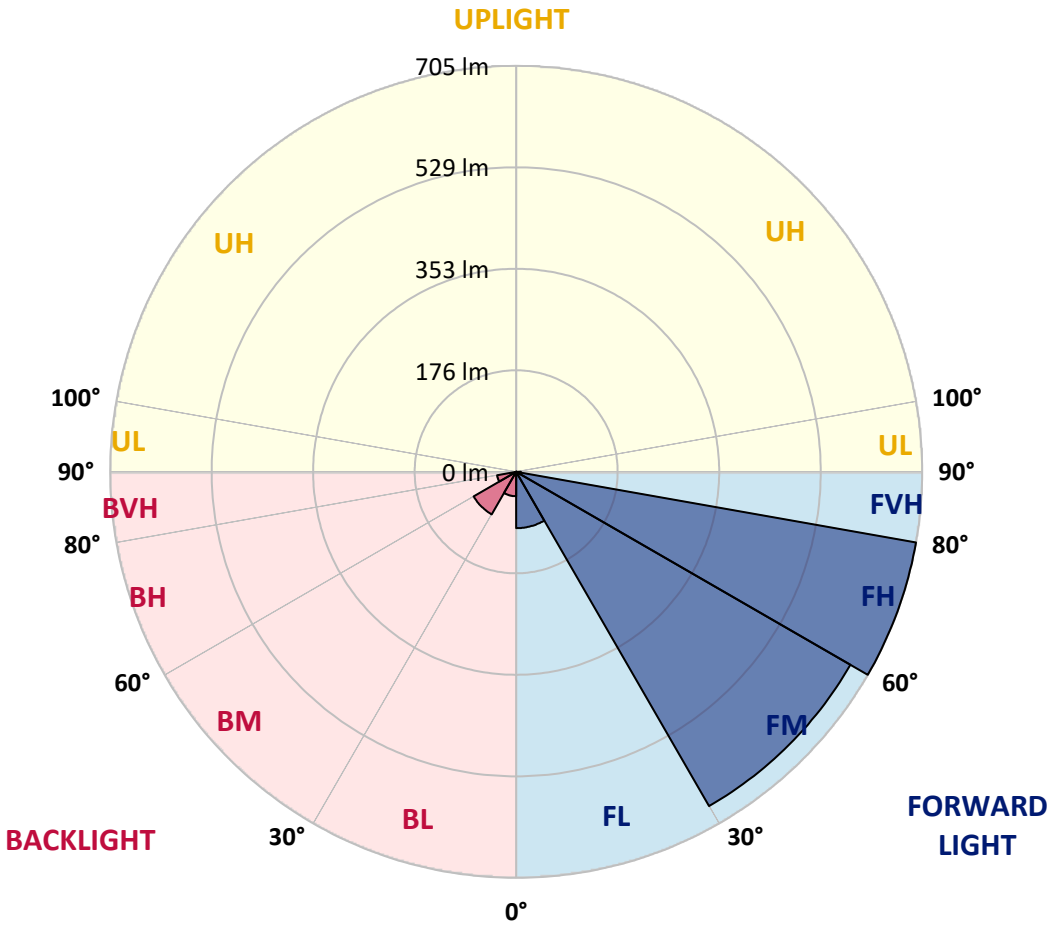
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	97.8	6.0			
FM	(30°-60°)	670.3	40.8			
FH	(60°-80°)	705.1	42.9			G1/1800
FVH	(80°-90°)	8.1	0.5			G0/10
BL	(0°-30°)	42.4	2.6	B0/110		
BM	(30°-60°)	85.3	5.2	B0/220		
BH	(60°-80°)	33.7	2.1	B0/110		G0/110
BVH	(80°-90°)	0.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	156.5	156.5	156.5	156.5	156.5	*156.5*	156.5	156.5	156.5	156.5	156.5
2.5°	176.4	177.2	174.0	174.8	173.2	*170.0*	169.2	166.8	163.7	161.3	158.9
5°	199.4	198.6	197.0	193.8	189.9	*185.1*	183.5	178.7	173.2	166.8	162.1
7.5°	218.5	218.5	216.1	212.9	206.6	*200.2*	198.6	192.3	184.3	175.6	166.8
10°	235.2	234.4	232.0	228.0	220.1	*214.5*	212.1	204.2	194.6	185.1	174.8
12.5°	247.9	247.9	244.7	239.1	230.4	*224.8*	223.2	216.1	206.6	195.4	181.1
15°	255.0	254.2	251.8	244.7	238.3	*232.0*	231.2	224.8	216.9	205.0	189.9
17.5°	255.0	255.8	251.8	247.9	242.3	*236.7*	235.9	231.2	223.2	212.9	197.0
20°	251.8	251.8	248.7	245.5	242.3	*239.9*	239.1	235.9	229.6	220.9	205.0
22.5°	247.9	247.1	246.3	243.9	243.1	*242.3*	243.1	241.5	237.5	228.0	212.9
25°	247.1	246.3	244.7	243.1	243.9	*247.9*	247.9	248.7	244.7	236.7	222.4
27.5°	250.2	250.2	247.9	245.5	247.1	*252.6*	252.6	255.0	252.6	247.1	232.8
30°	263.8	260.6	256.6	251.8	253.4	*259.8*	260.6	265.3	265.3	261.4	249.5
32.5°	282.0	278.8	268.5	262.2	262.2	*270.1*	270.1	278.1	285.2	277.3	259.0
35°	296.3	294.7	282.8	274.9	277.3	*284.4*	286.8	299.5	305.9	286.0	263.8
37.5°	344.0	341.6	318.6	289.2	290.8	*310.6*	312.2	317.8	312.2	290.0	273.3
40°	407.5	409.1	385.3	336.8	299.5	*308.2*	308.2	317.8	321.0	307.4	296.3
42.5°	503.7	494.1	470.3	404.4	338.4	*321.0*	321.7	335.3	351.9	344.0	345.6
45°	587.1	579.9	554.5	491.0	401.2	*363.1*	359.9	377.4	409.9	417.1	435.3
47.5°	661.0	653.8	642.7	583.1	494.9	*436.9*	425.0	442.5	498.9	536.2	549.0
50°	749.9	751.5	726.1	692.0	597.4	*536.2*	533.1	533.9	622.8	653.8	672.1
52.5°	862.8	860.4	815.9	797.6	739.6	*666.5*	648.3	659.4	747.6	769.8	800.0
55°	943.0	940.6	919.2	916.0	896.9	*811.1*	806.4	805.6	885.0	894.5	930.3
57.5°	989.9	993.8	1008.9	1049.4	1065.3	*1003.4*	989.9	963.6	1008.1	1005.8	1044.7
60°	997.8	1004.2	1047.1	1140.0	1229.0	*1195.6*	1177.4	1109.0	1120.9	1101.1	1124.9
62.5°	933.5	951.7	1028.0	1159.1	1311.6	*1356.1*	1341.0	1235.3	1207.5	1166.2	1136.0
65°	*768.2*	*776.2*	*885.8*	*1076.5*	*1302.9*	*1429.2*	*1429.2*	*1325.1*	*1236.1*	*1134.5*	*1049.4*
67.5°	530.7	534.7	668.1	868.3	1169.4	*1397.4*	1409.3	1323.5	1186.1	1009.7	855.6
70°	301.1	323.3	404.4	606.9	921.5	*1230.6*	1243.3	1204.4	993.0	748.4	560.9
72.5°	125.5	139.8	197.0	353.5	626.8	*969.2*	991.5	954.9	742.0	456.8	265.3
75°	38.9	40.5	65.1	154.1	342.4	*608.5*	645.9	644.3	443.3	213.7	108.0
77.5°	21.4	22.2	31.0	62.8	150.1	*324.9*	348.0	328.9	219.3	92.2	33.4
80°	10.3	11.1	16.7	30.2	65.9	*121.5*	143.0	132.7	76.3	43.7	11.1
82.5°	3.2	4.0	7.9	13.5	26.2	*28.6*	28.6	50.8	38.9	28.6	5.6
85°	0.0	0.0	2.4	4.8	4.8	*4.8*	4.8	11.1	18.3	17.5	2.4
87.5°	0.0	0.0	0.0	0.0	0.8	*0.8*	0.8	0.8	0.8	1.6	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

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Scaled Data Report

REPORT NUMBER: P437093
CATALOG NUMBER: ISC-SA1A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5
2.5°	157.3	156.5	153.3	150.1	148.6	147.0	145.4	143.8	143.8	144.6	143.8
5°	158.9	156.5	151.7	147.0	143.8	141.4	138.2	137.4	136.6	137.4	137.4
7.5°	162.9	159.7	152.5	145.4	140.6	136.6	134.3	133.5	131.9	131.9	131.9
10°	169.2	163.7	154.1	146.2	139.8	134.3	127.1	119.2	114.4	111.2	108.8
12.5°	175.6	169.2	156.5	147.0	139.8	123.9	106.5	91.4	83.4	79.4	78.6
15°	182.7	174.8	161.3	150.1	131.1	101.7	77.9	65.1	62.0	62.0	61.2
17.5°	188.3	181.1	165.2	150.9	115.2	76.3	58.8	54.8	55.6	57.2	57.2
20°	197.0	188.3	170.8	143.8	89.0	57.2	51.6	52.4	53.2	54.0	54.8
22.5°	205.0	195.4	177.2	127.9	65.1	49.3	49.3	50.0	50.8	51.6	52.4
25°	214.5	205.8	183.5	104.9	50.0	45.3	46.1	47.7	48.5	49.3	49.3
27.5°	225.6	216.1	183.5	82.6	43.7	42.1	42.1	43.7	44.5	46.1	46.1
30°	240.7	230.4	178.7	61.2	40.5	38.9	38.1	39.7	40.5	42.1	42.1
32.5°	250.2	243.9	168.4	46.1	37.3	35.7	35.0	35.0	35.7	37.3	37.3
35°	259.8	256.6	152.5	39.7	35.0	33.4	31.8	30.2	30.2	30.2	30.2
37.5°	274.9	279.6	129.5	36.5	33.4	31.0	28.6	26.2	24.6	23.8	23.0
40°	305.9	309.8	106.5	34.2	31.0	28.6	24.6	21.4	19.1	17.5	17.5
42.5°	354.3	351.1	81.0	32.6	28.6	25.4	20.7	17.5	14.3	12.7	12.7
45°	438.5	402.8	59.6	30.2	27.0	23.0	17.5	13.5	10.3	9.5	9.5
47.5°	541.8	462.4	45.3	28.6	24.6	19.9	13.5	10.3	7.9	7.1	7.1
50°	653.0	523.5	37.3	26.2	22.2	16.7	11.1	7.1	5.6	5.6	5.6
52.5°	757.9	564.8	31.0	23.8	19.1	13.5	7.9	5.6	4.8	4.8	4.8
55°	855.6	590.3	25.4	20.7	15.9	10.3	6.4	4.8	4.0	3.2	3.2
57.5°	922.3	586.3	20.7	16.7	11.9	7.1	4.8	4.0	3.2	2.4	2.4
60°	945.4	551.3	15.9	13.5	8.7	5.6	4.0	3.2	2.4	1.6	1.6
62.5°	912.8	482.2	12.7	10.3	6.4	4.8	3.2	2.4	1.6	0.8	0.8
65°	*821.4*	*414.7*	*9.5*	*7.1*	*4.8*	*3.2*	*2.4*	*1.6*	*0.8*	*0.0*	*0.0*
67.5°	653.8	321.7	7.9	4.8	3.2	2.4	1.6	0.8	0.0	0.0	0.0
70°	409.1	201.8	6.4	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	198.6	99.3	4.8	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
75°	73.9	32.6	4.0	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	23.8	11.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	8.7	4.8	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	2.4	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	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

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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

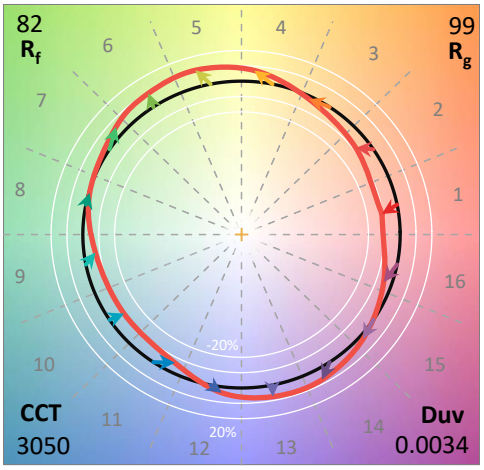
Test Information

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

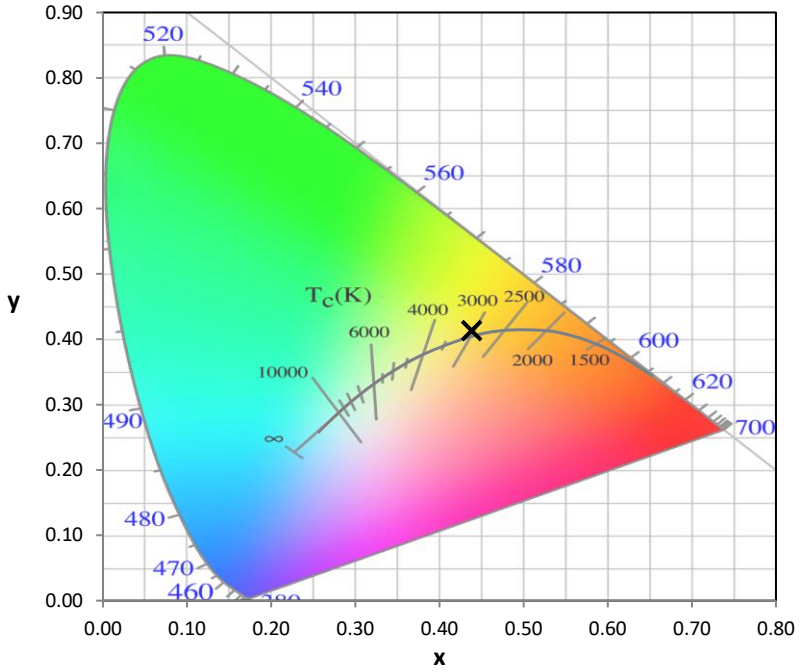
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

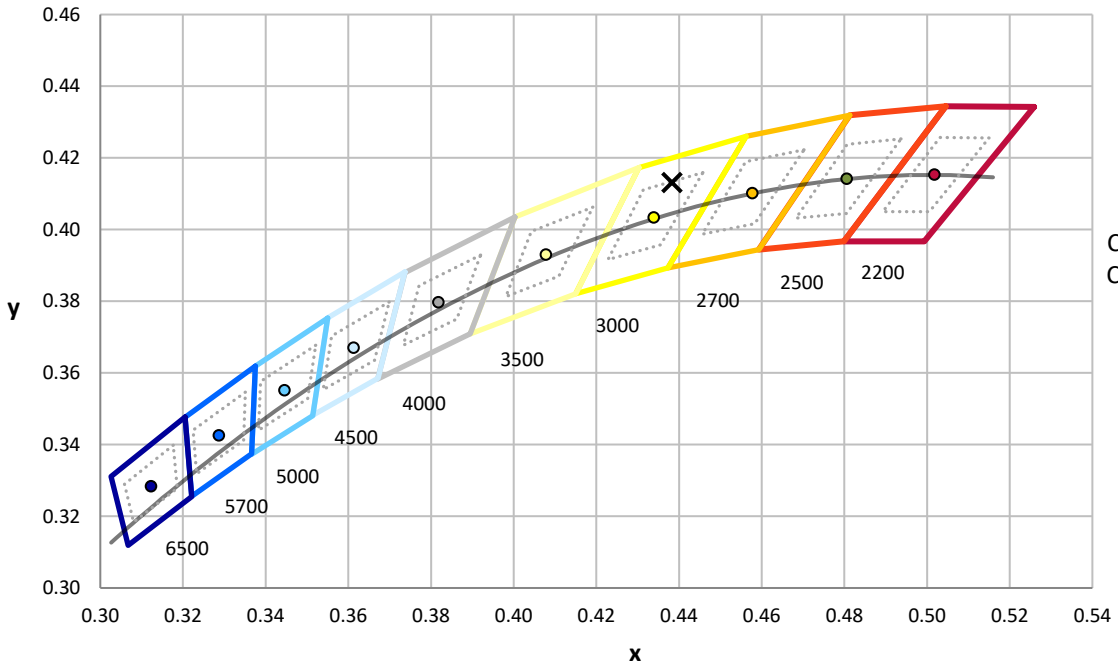
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

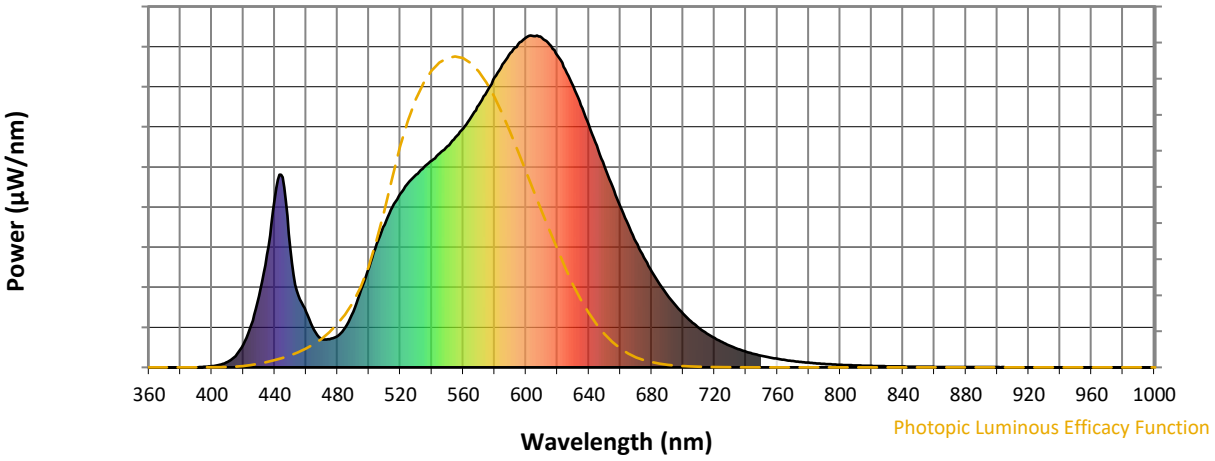


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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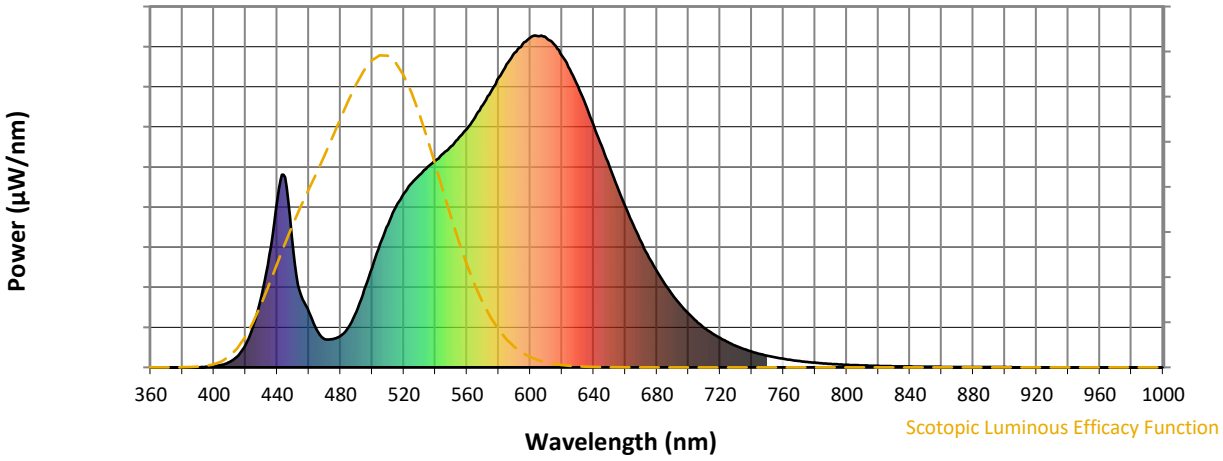
Scotopic Flux vs. Wavelength



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			

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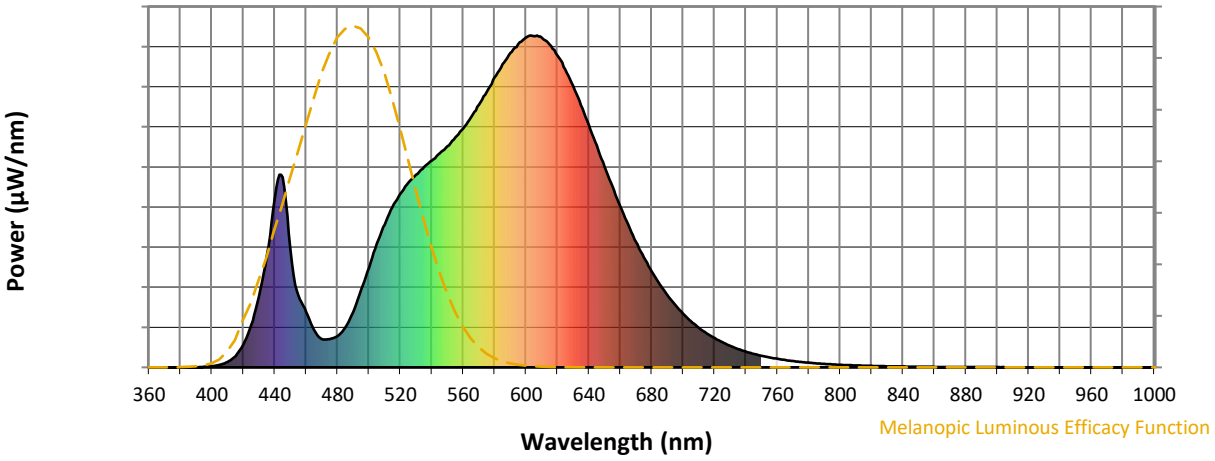
Melanopic Flux vs. Wavelength



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			

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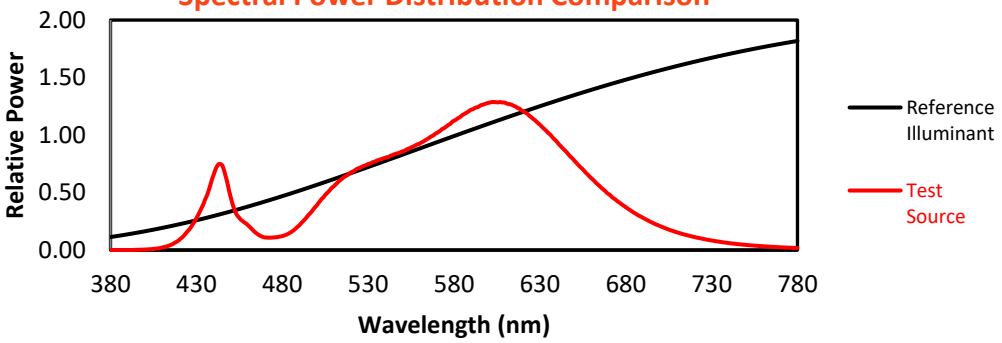
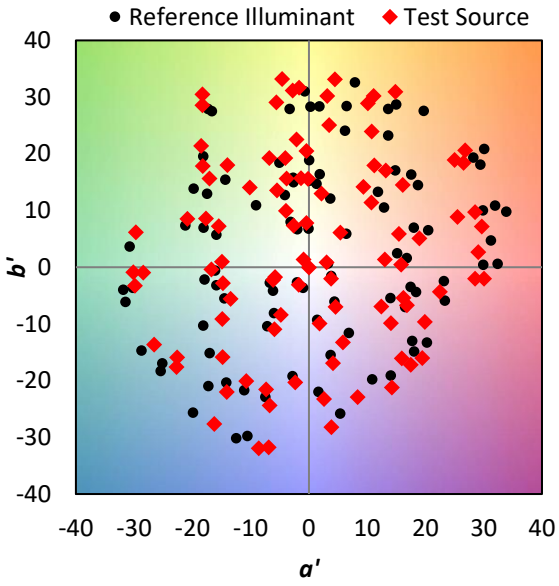
Summary

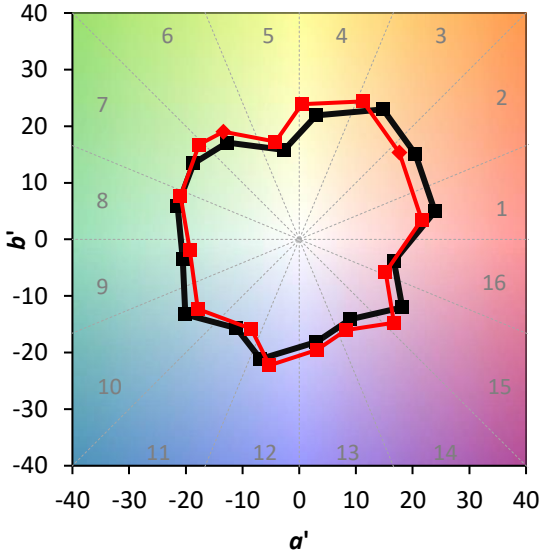
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

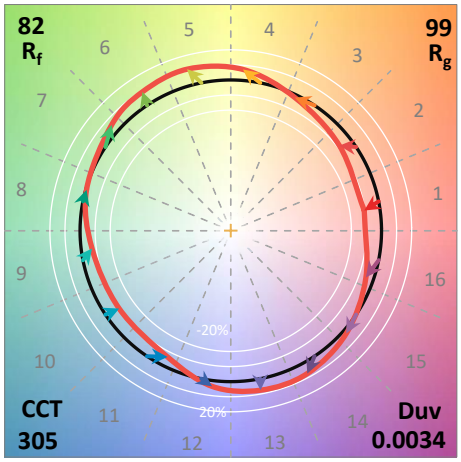
Spectral Power Distribution Comparison

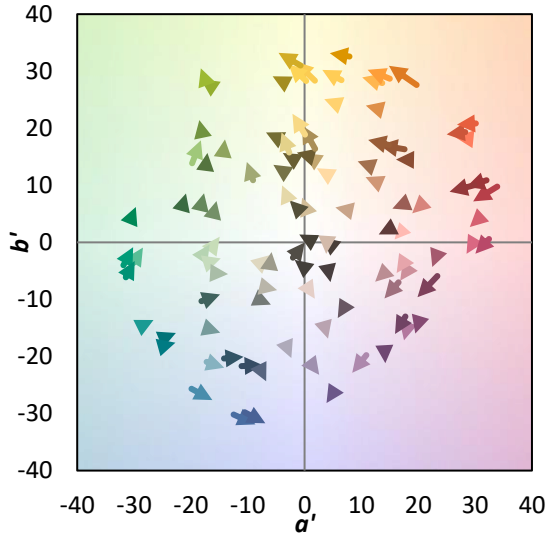


Color Vector Graphics









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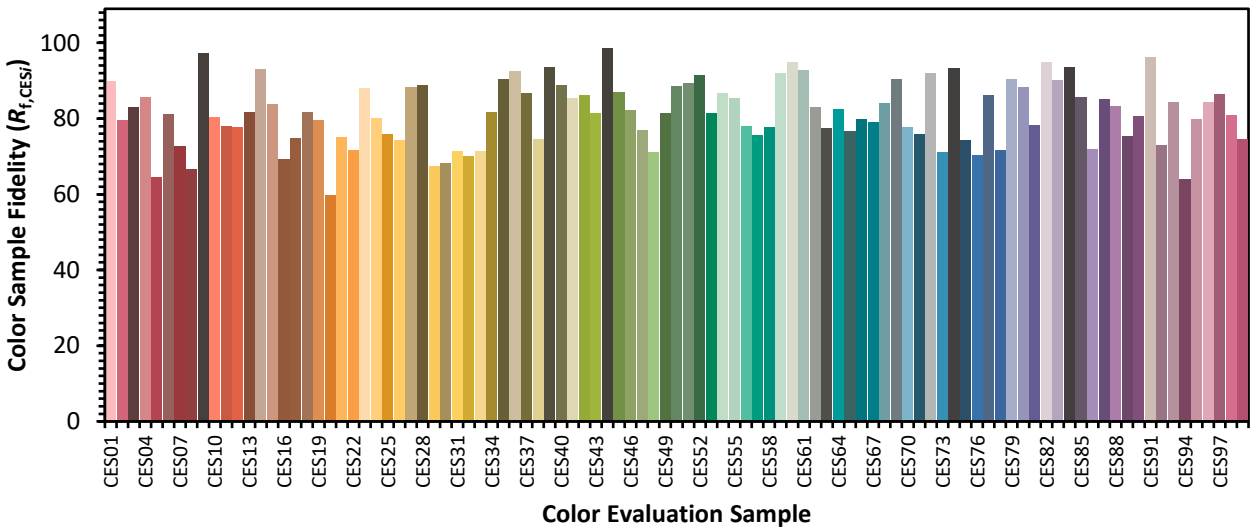
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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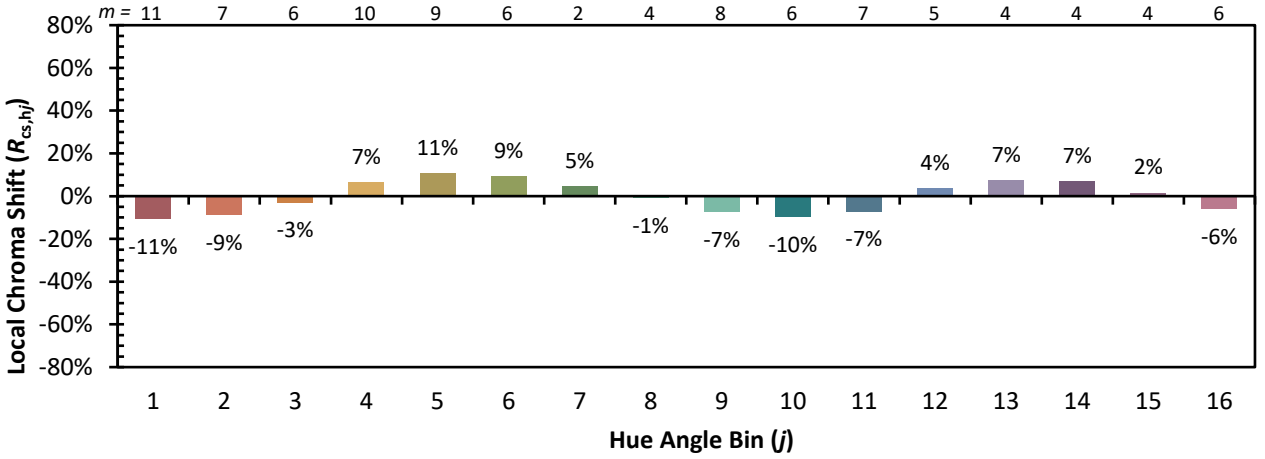
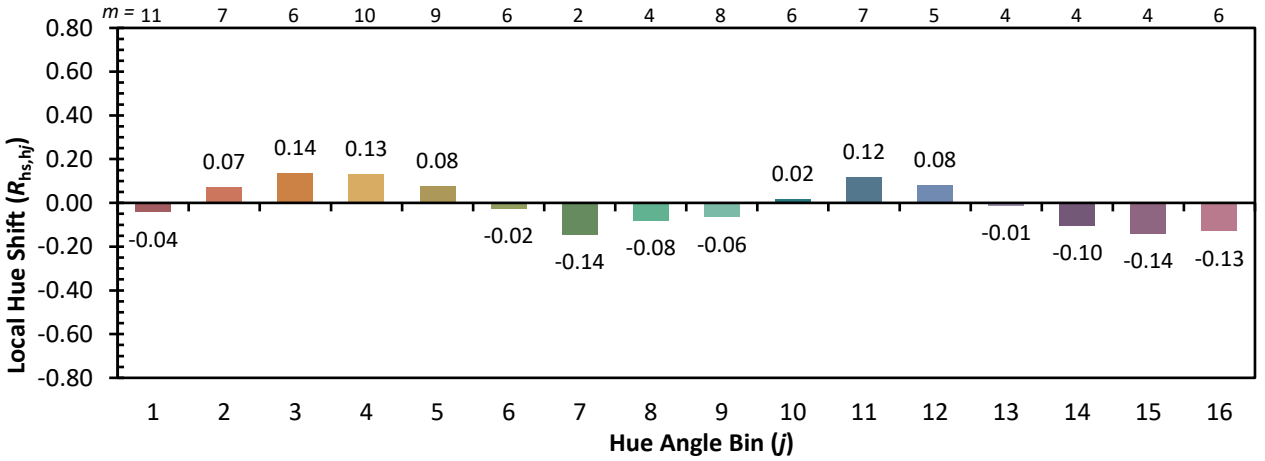
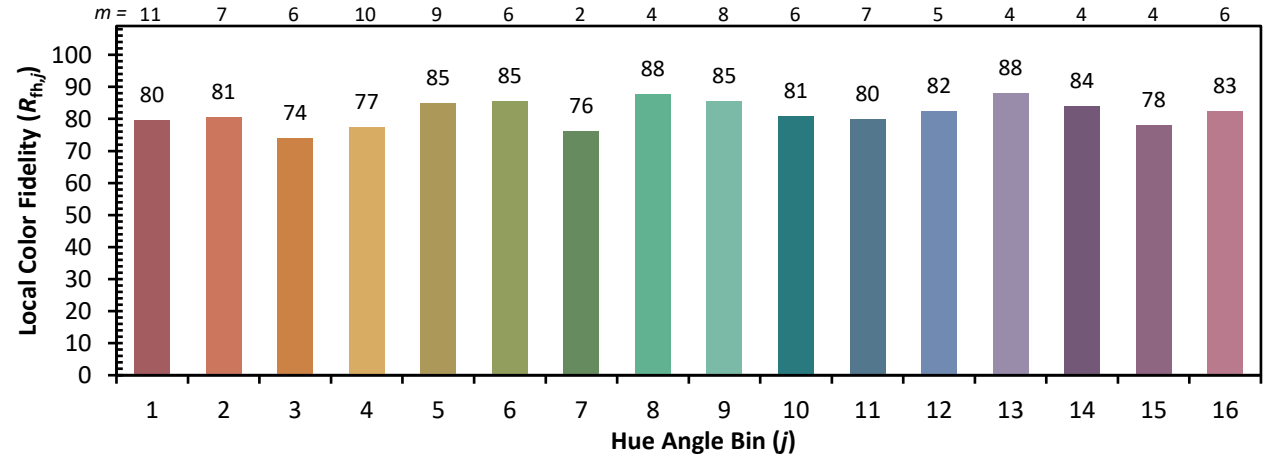
Color Rendition by Hue-Angle Bin







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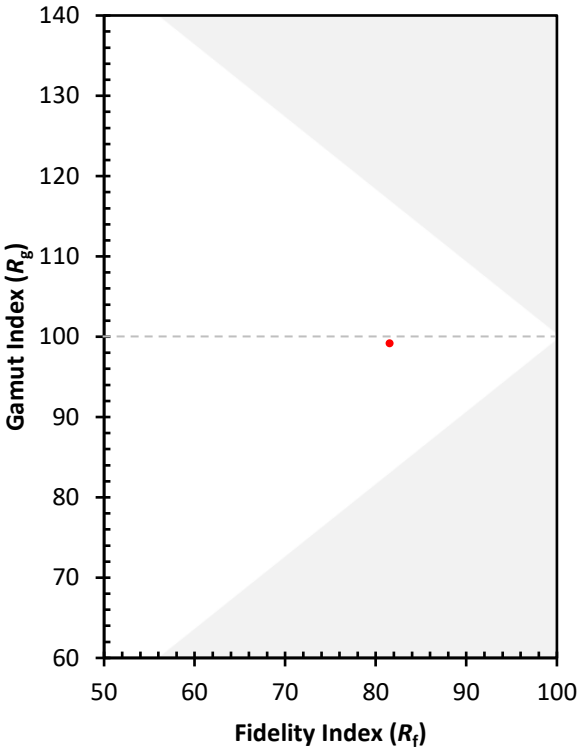
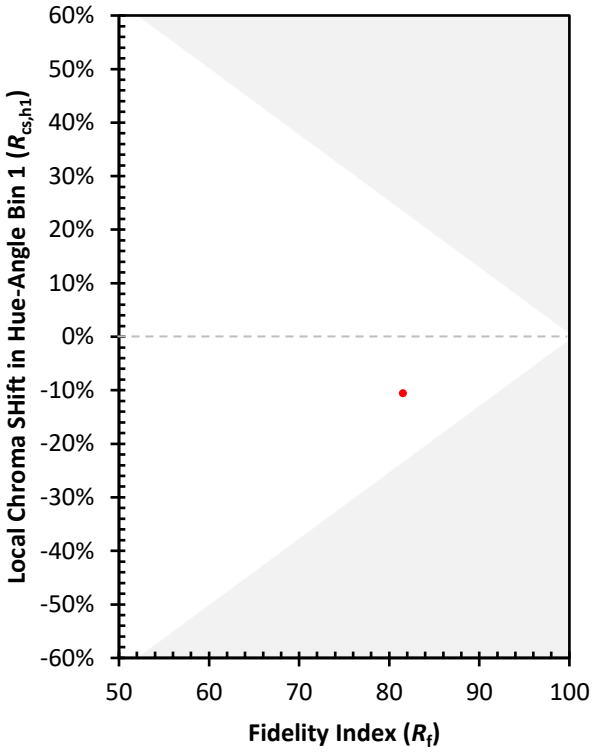
Measure Comparisons





(END OF REPORT)