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: P438286

Luminaire Tested: **IST-SA1B-830-U-T3-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:	P438286
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-9)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	IST-SA1B-830-U-T3-HSS
Description:	IMPACT ELITE LED TRAPEZOID LUMINAIRE
	(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1943 lumens
Efficiency:	N/A
Efficacy:	76.5 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):	25.4
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: P438286
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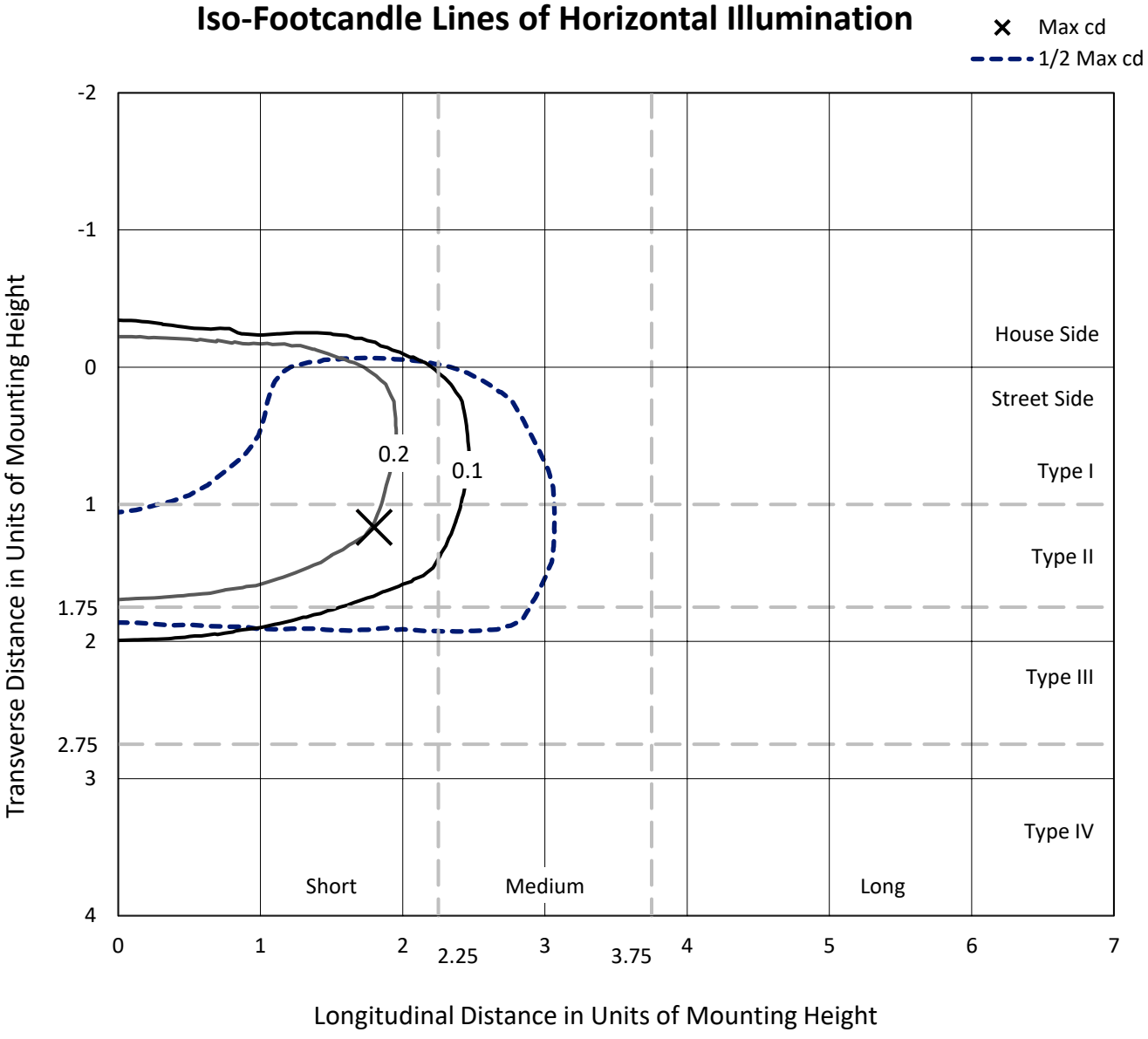
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
Type III - Short - N/A

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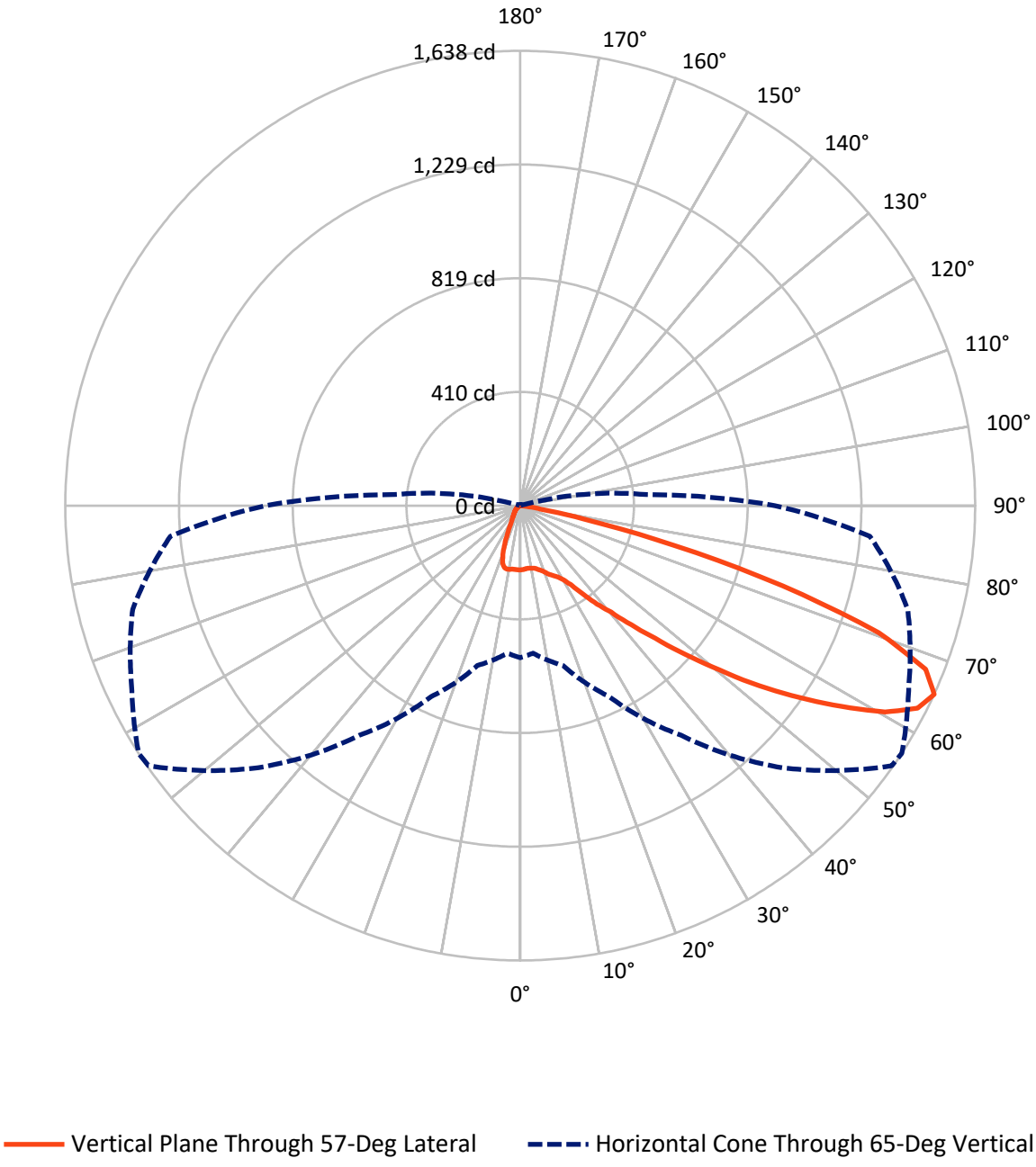
Luminous Intensity Polar Plot



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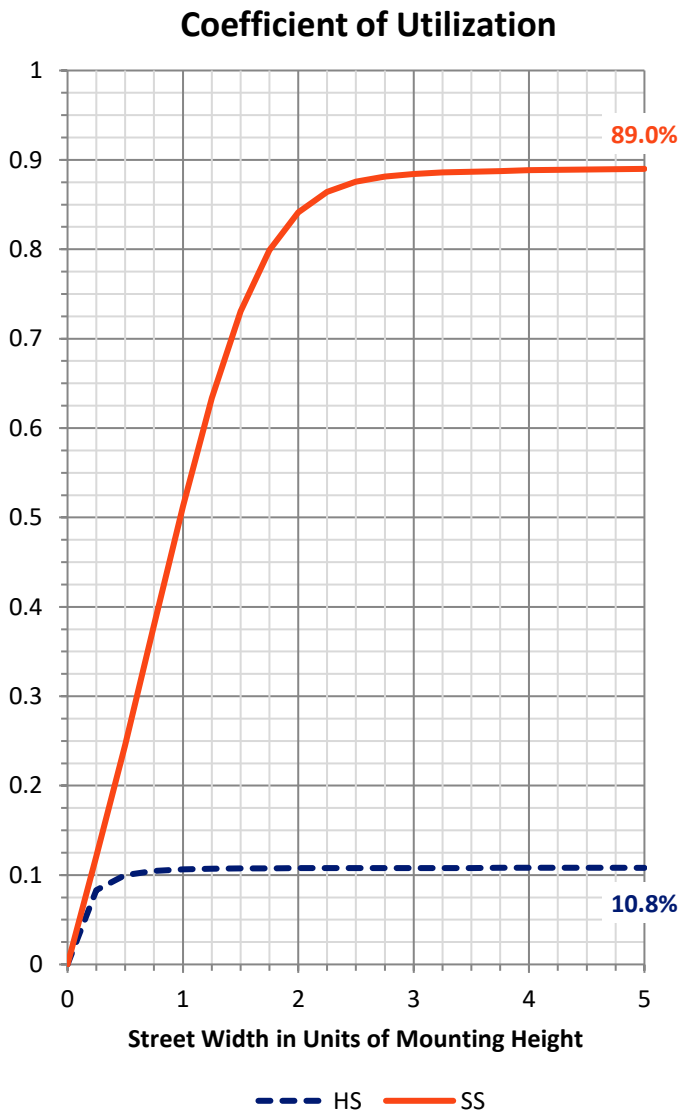
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.9	0.0	211.9
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	1731.1	0.0	1731.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	1943.0	0.0	1943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	1.1
10°-20°	58.1	3.0
20°-30°	100.4	5.2
30°-40°	177.9	9.2
40°-50°	322.6	16.6
50°-60°	543.4	28.0
60°-70°	558.7	28.8
70°-80°	154.8	8.0
80°-90°	5.5	0.3
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°	1943.0	100.0
0°-180°	1943.0	100.0



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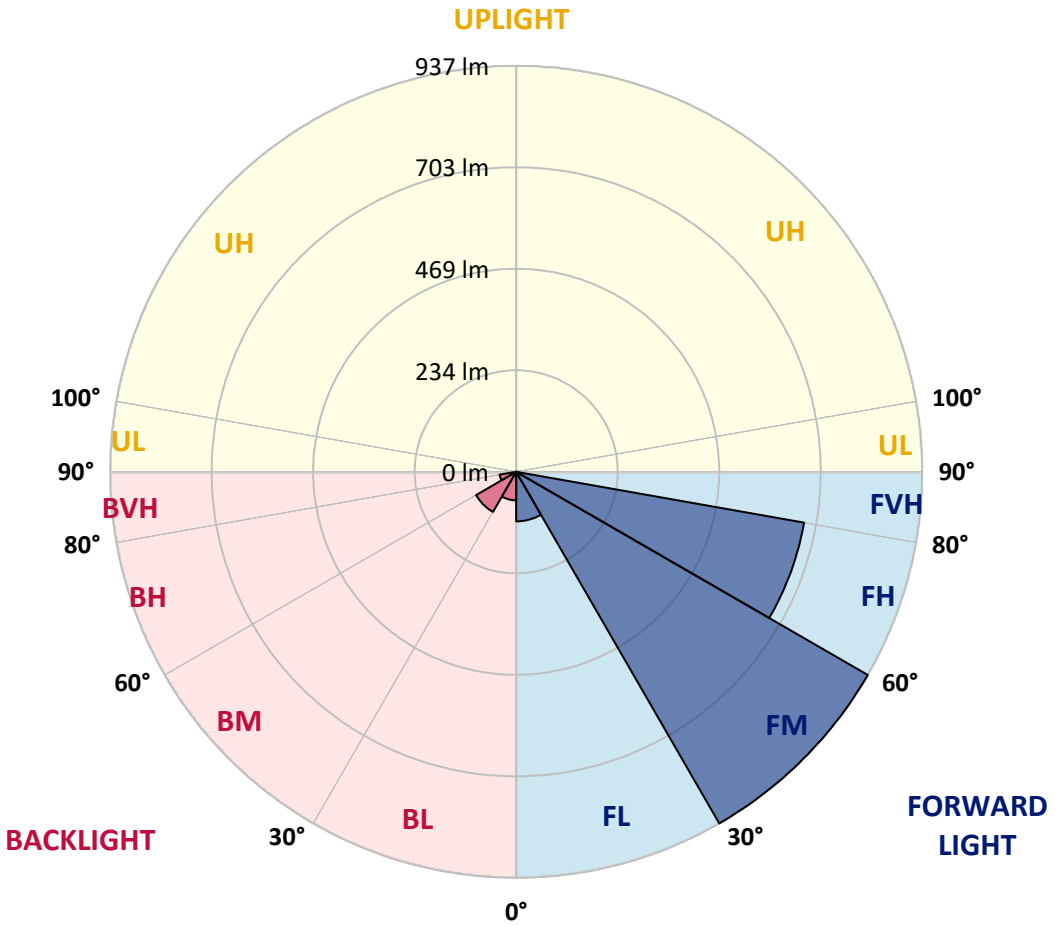
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	114.3	5.9			
FM	(30°-60°)	937.0	48.2			
FH	(60°-80°)	674.7	34.7			G1/1800
FVH	(80°-90°)	5.1	0.3			G0/10
BL	(0°-30°)	65.8	3.4	B0/110		
BM	(30°-60°)	106.8	5.5	B0/220		
BH	(60°-80°)	38.9	2.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
2.5°	224.6	224.6	226.5	227.4	227.4	228.3	229.3	230.2	230.2	230.2	232.1
5°	213.2	212.2	214.1	216.0	218.9	222.7	225.5	227.4	230.2	233.1	234.0
7.5°	202.8	202.8	204.7	207.5	213.2	218.9	224.6	227.4	232.1	237.8	239.7
10°	199.9	199.0	201.8	204.7	210.3	217.0	225.5	229.3	235.9	243.5	246.3
12.5°	198.0	198.0	199.0	203.7	209.4	217.9	228.3	231.2	241.6	250.1	256.8
15°	197.1	197.1	199.0	202.8	209.4	218.9	233.1	237.8	250.1	262.5	268.1
17.5°	204.7	203.7	202.8	204.7	211.3	221.7	240.7	245.4	260.6	275.7	282.4
20°	227.4	226.5	223.6	217.0	217.0	229.3	250.1	255.8	275.7	290.9	294.7
22.5°	270.0	272.9	262.5	245.4	233.1	238.8	262.5	269.1	291.8	307.9	307.9
25°	331.6	327.8	318.4	289.9	265.3	253.9	272.9	279.5	307.0	325.9	322.1
27.5°	396.1	397.0	383.7	351.5	311.7	281.4	284.2	291.8	323.1	344.9	336.4
30°	447.2	443.4	436.8	410.3	366.7	325.0	306.0	310.8	341.1	365.7	358.2
32.5°	492.7	490.8	482.3	459.5	420.7	376.2	342.0	343.0	366.7	397.0	387.5
35°	533.4	535.3	531.5	506.0	470.9	429.2	390.4	393.2	411.2	442.5	423.5
37.5°	584.6	584.6	578.0	554.3	527.8	486.1	449.1	450.1	459.5	485.1	461.4
40°	629.1	631.0	630.1	612.1	586.5	548.6	504.1	504.1	506.9	537.2	524.9
42.5°	689.8	692.6	691.7	674.6	654.7	627.2	589.3	586.5	584.6	622.5	609.2
45°	767.5	774.1	776.9	756.1	738.1	722.0	692.6	681.3	686.0	721.0	710.6
47.5°	841.4	849.0	862.2	851.8	843.3	843.3	803.5	801.6	794.0	834.7	806.3
50°	911.5	912.4	931.4	947.5	973.1	968.3	941.8	930.4	919.1	946.6	895.4
52.5°	951.3	962.7	987.3	1033.7	1089.6	1112.4	1084.9	1078.3	1055.5	1051.7	981.6
55°	988.2	988.2	1027.1	1107.6	1202.4	1250.7	1228.0	1220.4	1174.9	1161.6	1070.7
57.5°	1000.6	996.8	1048.9	1151.2	1293.3	1377.7	1382.4	1365.3	1301.9	1261.1	1161.6
60°	939.0	932.3	987.3	1122.8	1318.0	1469.6	1520.7	1509.4	1411.8	1357.8	1257.3
62.5°	761.8	770.3	840.4	987.3	1230.8	1460.1	1612.6	1606.0	1493.3	1423.1	1295.2
65°	547.7	533.4	596.0	758.9	1010.0	1335.0	1633.5	1638.2	1543.5	1444.9	1264.0
67.5°	307.0	293.7	345.8	470.0	718.2	1095.3	1548.2	1574.7	1507.5	1390.9	1129.4
70°	117.5	125.1	161.1	232.1	423.5	756.1	1332.2	1370.1	1321.8	1160.7	841.4
72.5°	41.7	47.4	66.3	103.3	196.1	407.4	931.4	988.2	974.0	806.3	481.3
75°	24.6	25.6	34.1	50.2	86.2	159.2	525.9	573.2	550.5	398.9	199.0
77.5°	17.1	17.1	21.8	30.3	49.3	63.5	205.6	233.1	239.7	144.0	58.7
80°	10.4	11.4	15.2	19.9	28.4	29.4	63.5	74.9	70.1	51.2	20.8
82.5°	4.7	4.7	8.5	13.3	14.2	12.3	19.9	21.8	25.6	22.7	9.5
85°	0.0	0.0	2.8	4.7	3.8	2.8	6.6	6.6	8.5	10.4	4.7
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	1.9	0.9
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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CATALOG NUMBER: IST-SA1B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
2.5°	232.1	233.1	232.1	231.2	231.2	230.2	230.2	230.2	230.2	230.2	230.2
5°	234.0	235.0	234.0	232.1	230.2	228.3	226.5	226.5	226.5	226.5	228.3
7.5°	239.7	239.7	237.8	234.0	229.3	227.4	223.6	222.7	220.8	219.8	220.8
10°	248.2	248.2	244.5	238.8	231.2	223.6	217.0	207.5	201.8	198.0	197.1
12.5°	256.8	255.8	251.1	243.5	231.2	214.1	192.3	168.7	154.4	144.0	142.1
15°	268.1	267.2	259.6	246.3	225.5	189.5	146.9	114.6	97.6	90.0	89.1
17.5°	280.5	278.6	268.1	248.2	207.5	143.1	96.6	74.9	68.2	66.3	66.3
20°	293.7	290.9	274.8	245.4	171.5	97.6	67.3	62.5	61.6	60.6	60.6
22.5°	304.1	299.4	279.5	231.2	127.9	67.3	59.7	58.7	57.8	56.8	56.8
25°	315.5	307.9	283.3	199.9	84.3	57.8	55.9	55.0	53.1	52.1	52.1
27.5°	328.8	317.4	289.0	157.3	58.7	52.1	50.2	49.3	46.4	44.5	44.5
30°	345.8	331.6	291.8	114.6	49.3	45.5	43.6	41.7	37.9	36.0	36.0
32.5°	373.3	361.0	286.1	76.7	44.5	40.7	37.9	34.1	30.3	28.4	27.5
35°	408.4	391.3	266.2	54.0	39.8	36.0	31.3	26.5	23.7	22.7	22.7
37.5°	447.2	424.5	235.9	43.6	36.0	31.3	26.5	21.8	18.9	18.0	18.0
40°	502.2	467.1	194.2	37.9	31.3	26.5	21.8	18.0	16.1	15.2	15.2
42.5°	574.2	521.1	146.9	35.1	28.4	22.7	18.0	15.2	13.3	12.3	12.3
45°	654.7	578.0	107.1	31.3	24.6	18.9	14.2	12.3	10.4	9.5	9.5
47.5°	735.3	618.7	73.9	28.4	20.8	16.1	12.3	9.5	7.6	7.6	6.6
50°	805.4	640.5	53.1	24.6	18.9	13.3	9.5	7.6	6.6	5.7	5.7
52.5°	867.0	650.0	40.7	21.8	16.1	11.4	7.6	6.6	5.7	5.7	5.7
55°	919.1	642.4	32.2	18.9	14.2	9.5	6.6	5.7	4.7	4.7	4.7
57.5°	970.2	619.7	25.6	16.1	11.4	6.6	5.7	4.7	3.8	3.8	3.8
60°	996.8	590.3	20.8	13.3	9.5	5.7	4.7	3.8	3.8	2.8	2.8
62.5°	978.8	530.6	17.1	11.4	6.6	4.7	3.8	2.8	2.8	1.9	1.9
65°	*918.1*	*454.8*	*13.3*	*8.5*	*4.7*	*3.8*	*2.8*	*2.8*	*1.9*	*0.9*	*0.9*
67.5°	774.1	356.3	10.4	6.6	3.8	2.8	1.9	1.9	0.9	0.0	0.0
70°	553.3	235.0	8.5	4.7	2.8	2.8	1.9	0.9	0.0	0.0	0.0
72.5°	319.3	113.7	6.6	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
75°	119.4	39.8	5.7	2.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
77.5°	39.8	16.1	4.7	3.8	2.8	0.9	0.9	0.0	0.0	0.0	0.0
80°	12.3	7.6	1.9	1.9	1.9	1.9	0.9	0.0	0.0	0.0	0.0
82.5°	6.6	3.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	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

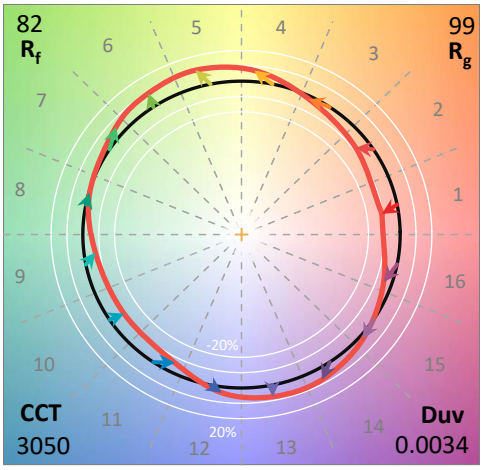
Test Information

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

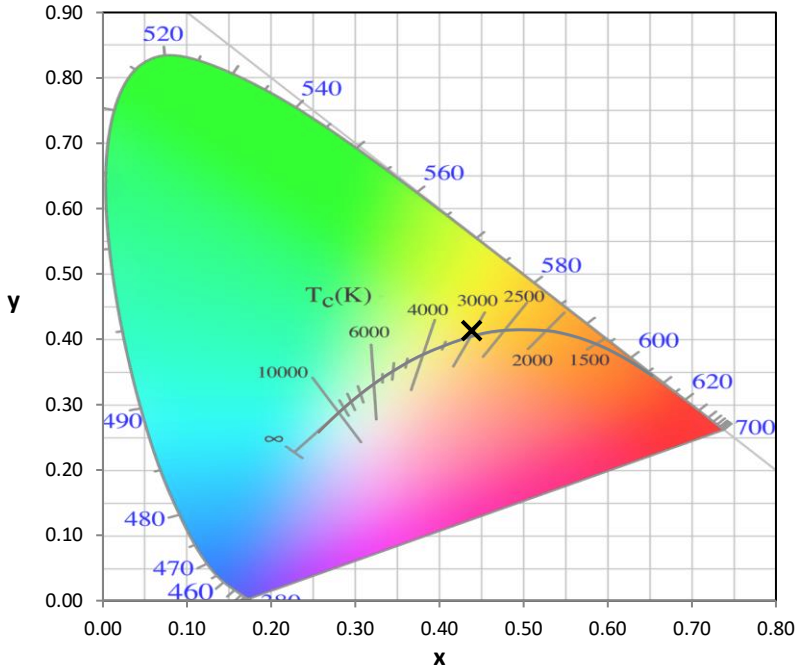
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

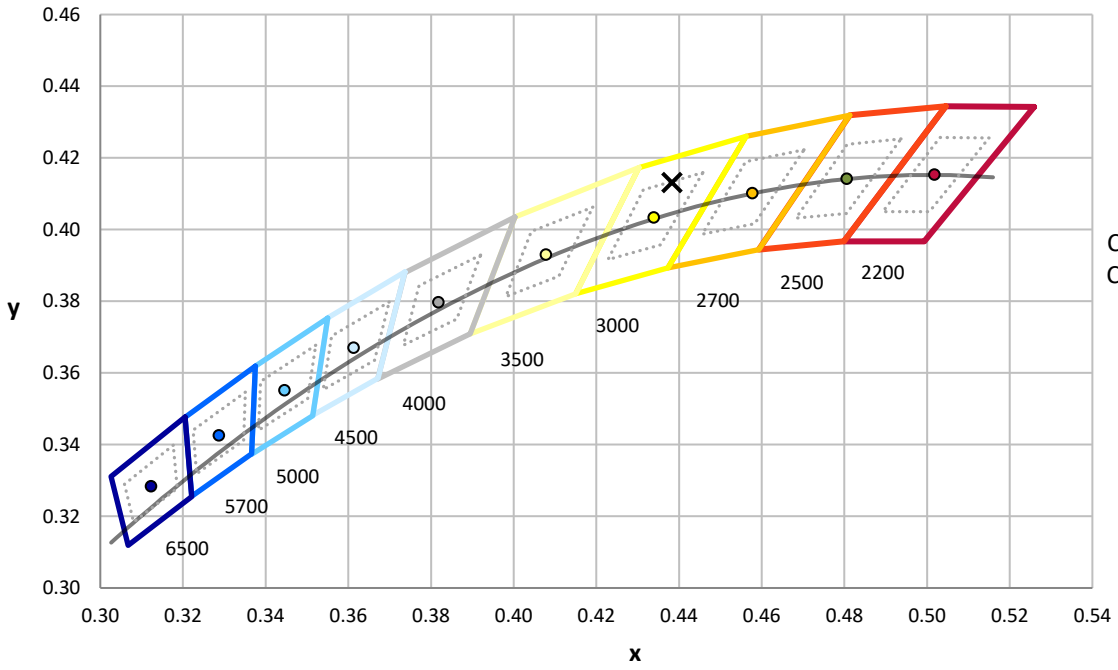
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

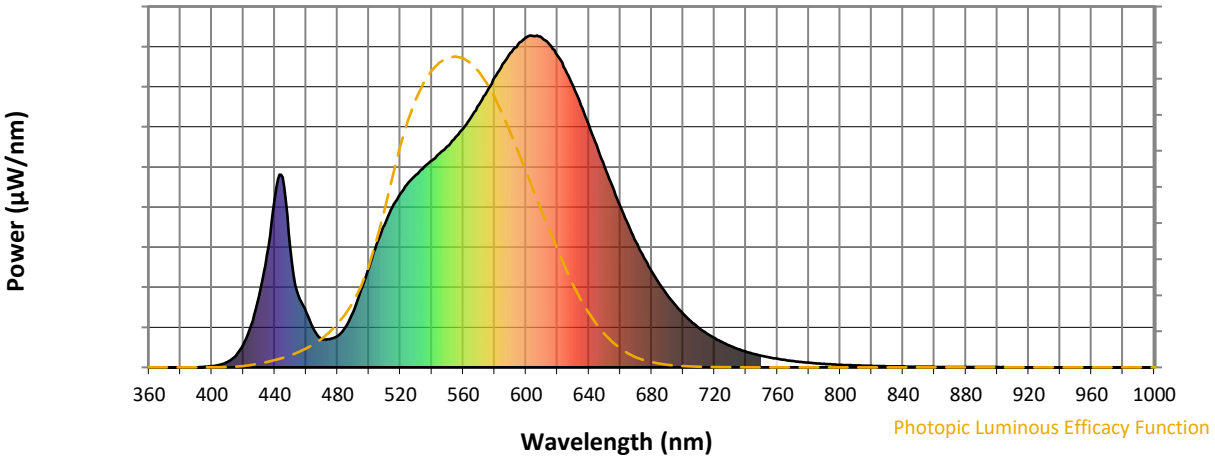


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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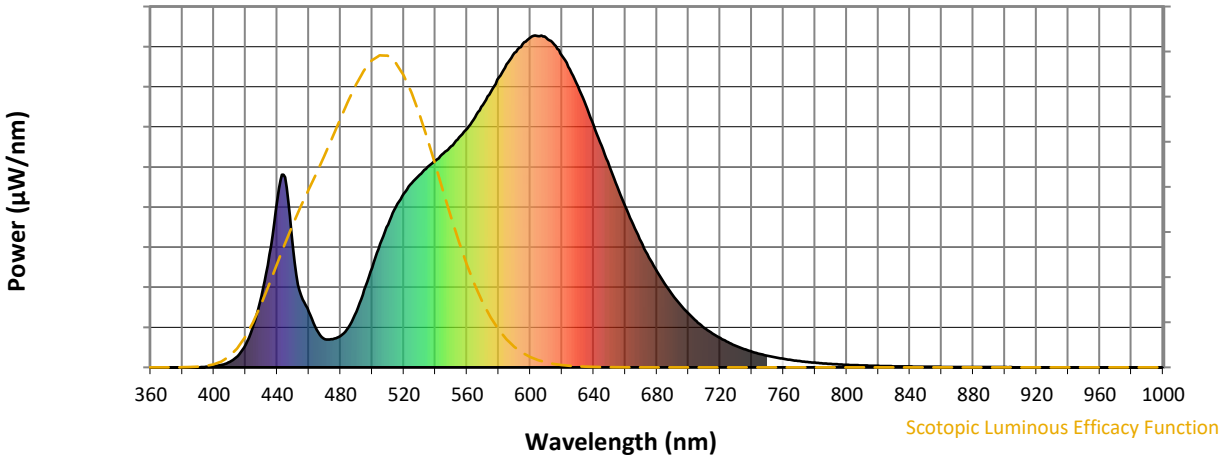
Scotopic Flux vs. Wavelength



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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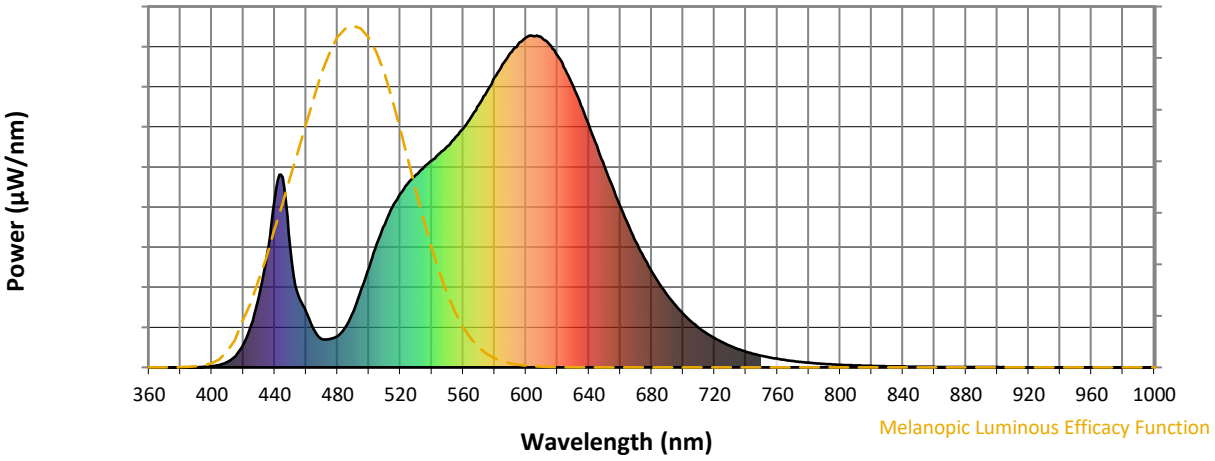
Melanopic Flux vs. Wavelength



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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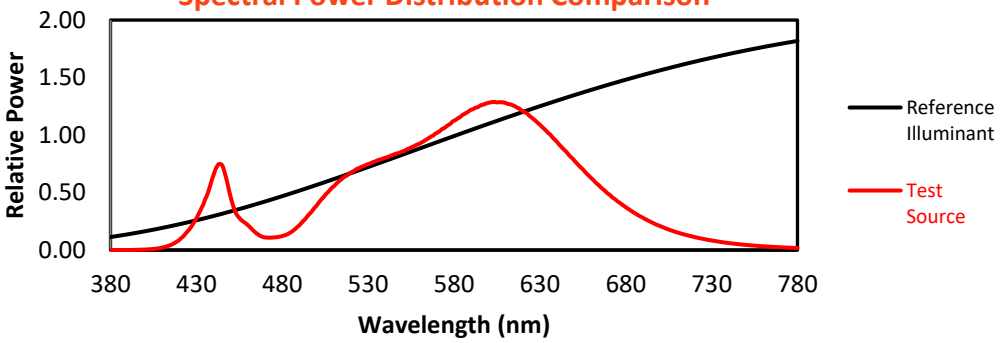
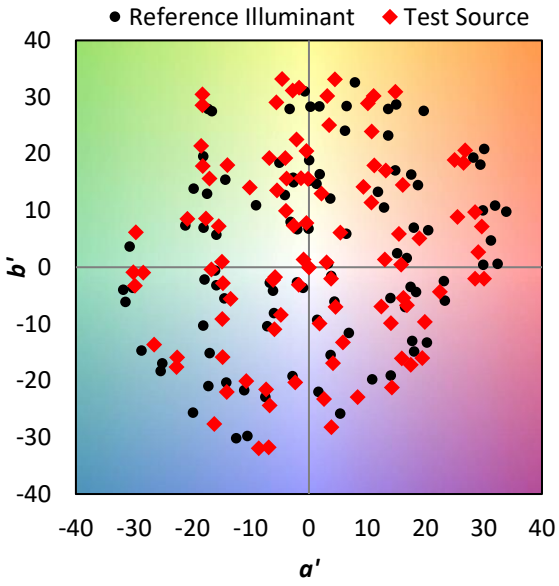
Summary

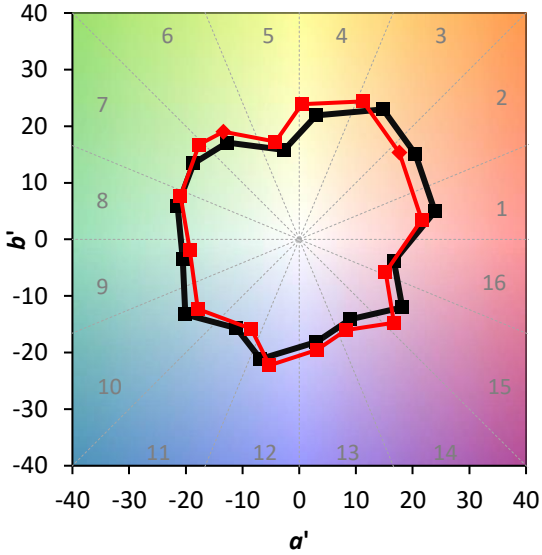
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

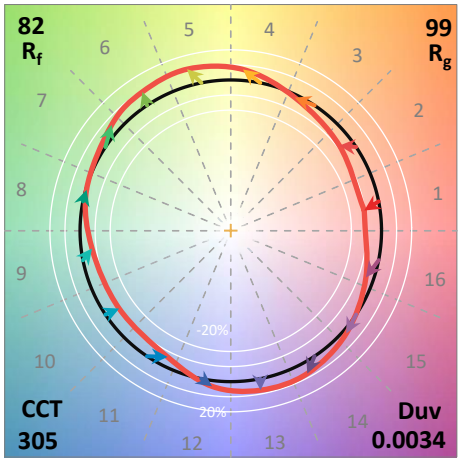
Spectral Power Distribution Comparison

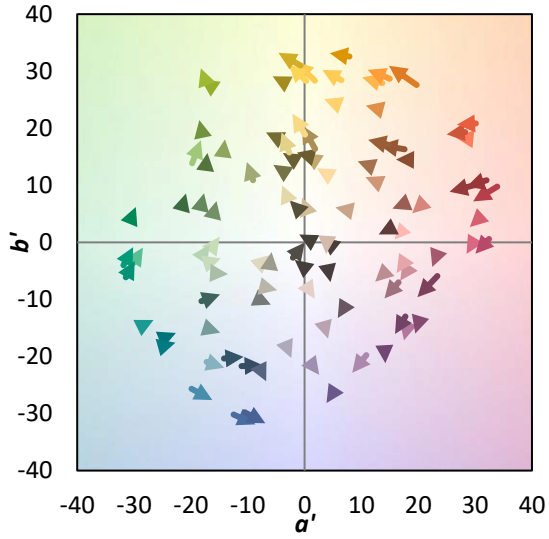


Color Vector Graphics









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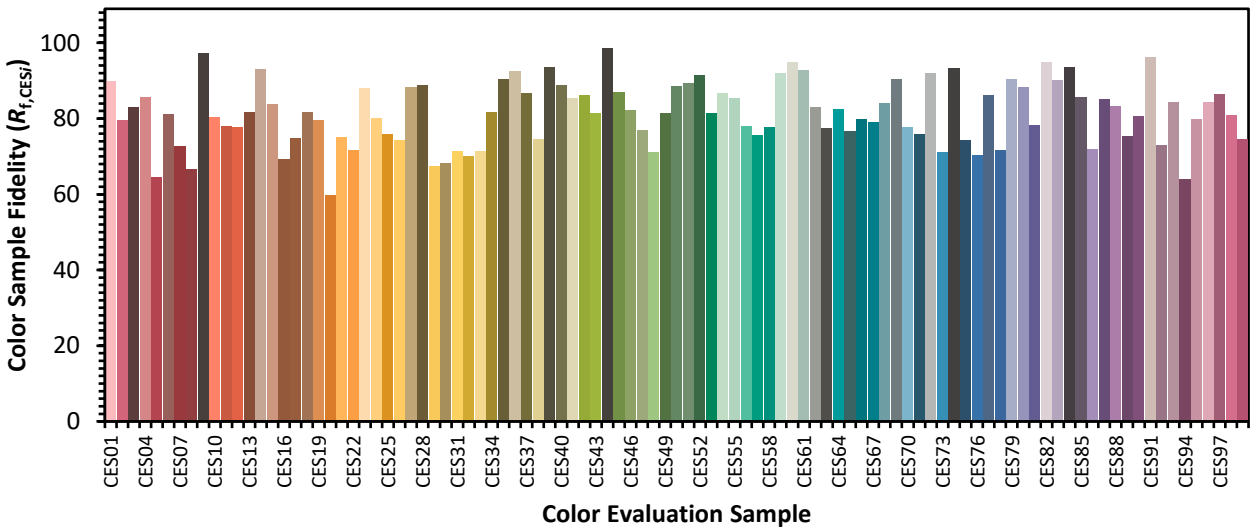
Individual Sample Fidelity Index ($R_{f,i}$)

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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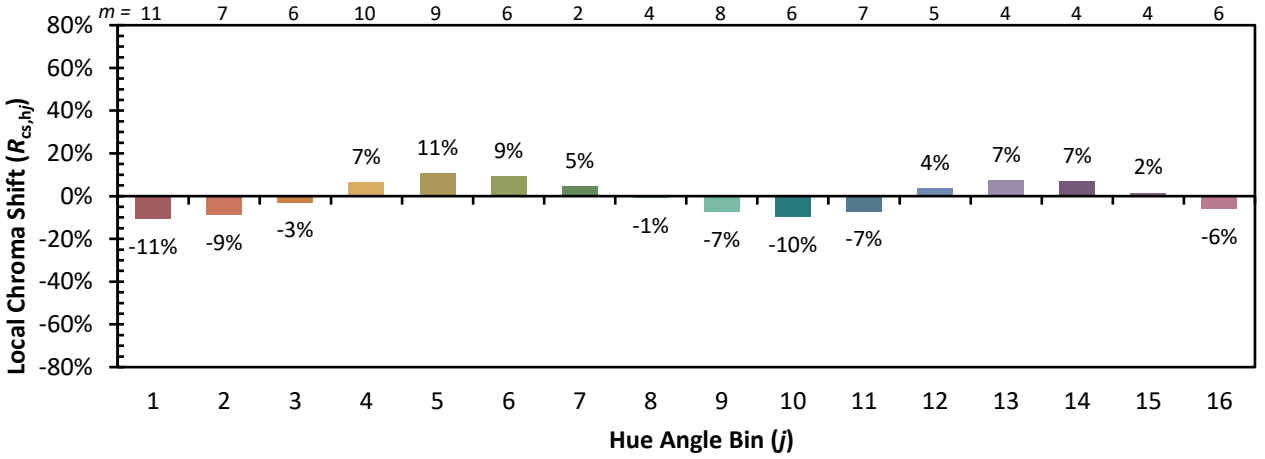
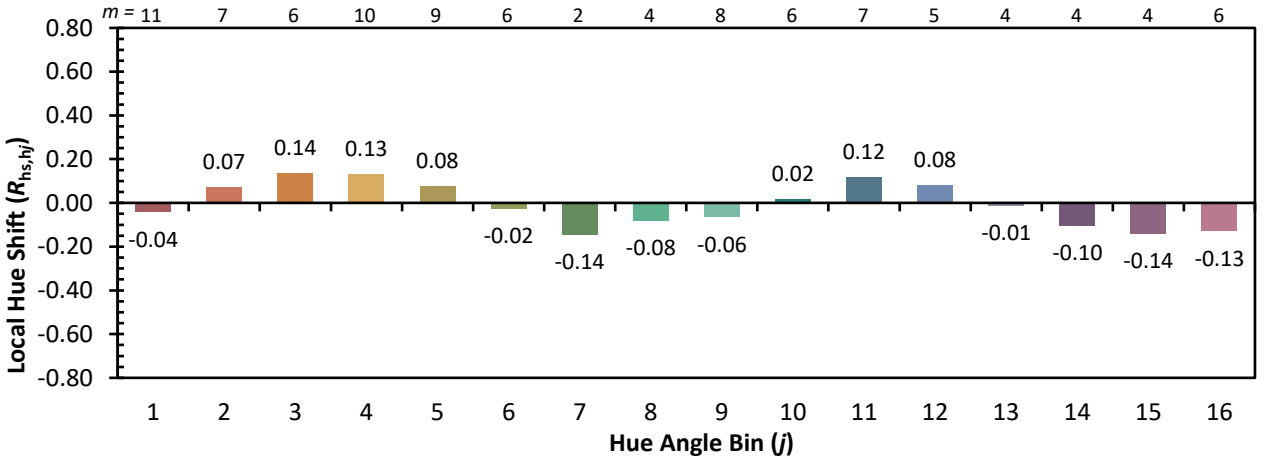
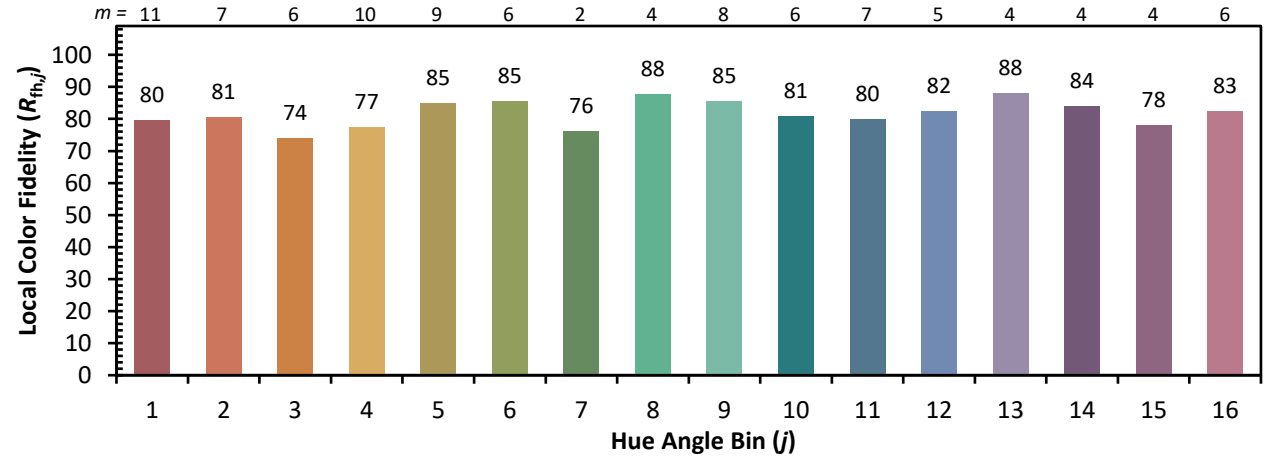
Color Rendition by Hue-Angle Bin







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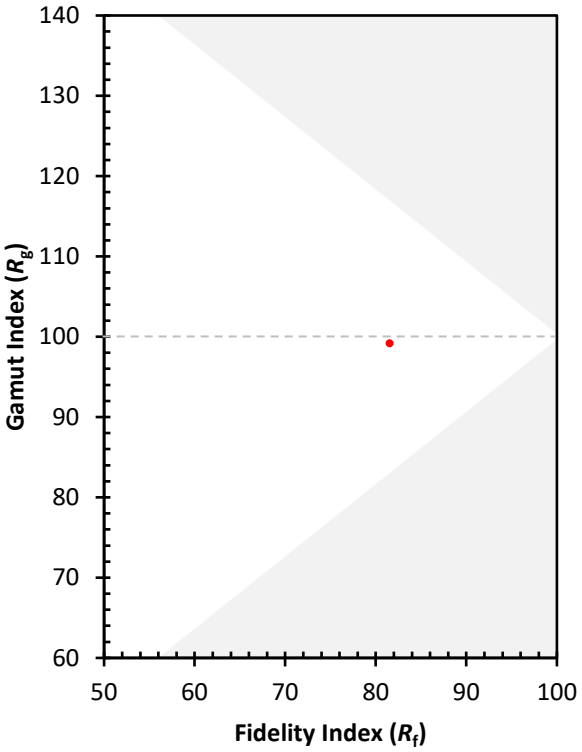
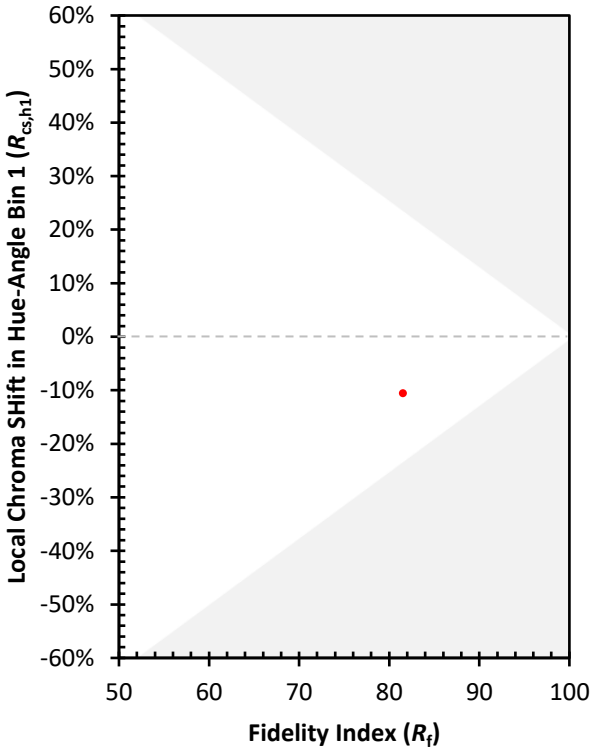
Measure Comparisons





(END OF REPORT)