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: P438274

Luminaire Tested: **IST-SA1B-830-U-SL2-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:	P438274
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-15)
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-SL2-HSS
Description:	IMPACT ELITE LED TRAPEZOID LUMINAIRE
	(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2203 lumens
Efficiency:	N/A
Efficacy:	86.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - 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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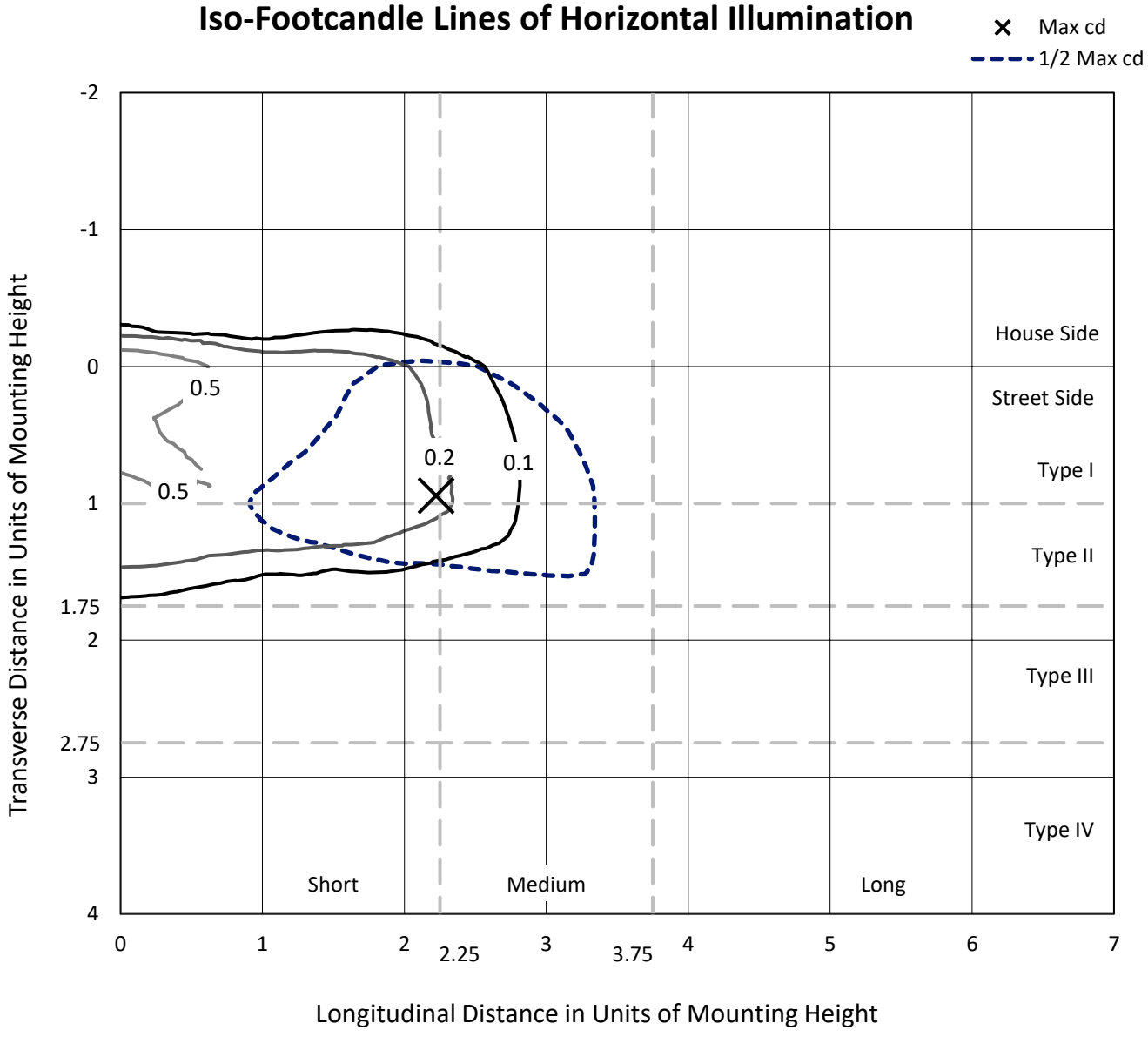
REPORT NUMBER: P438274
CATALOG NUMBER: IST-SA1B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type II - Short - N/A

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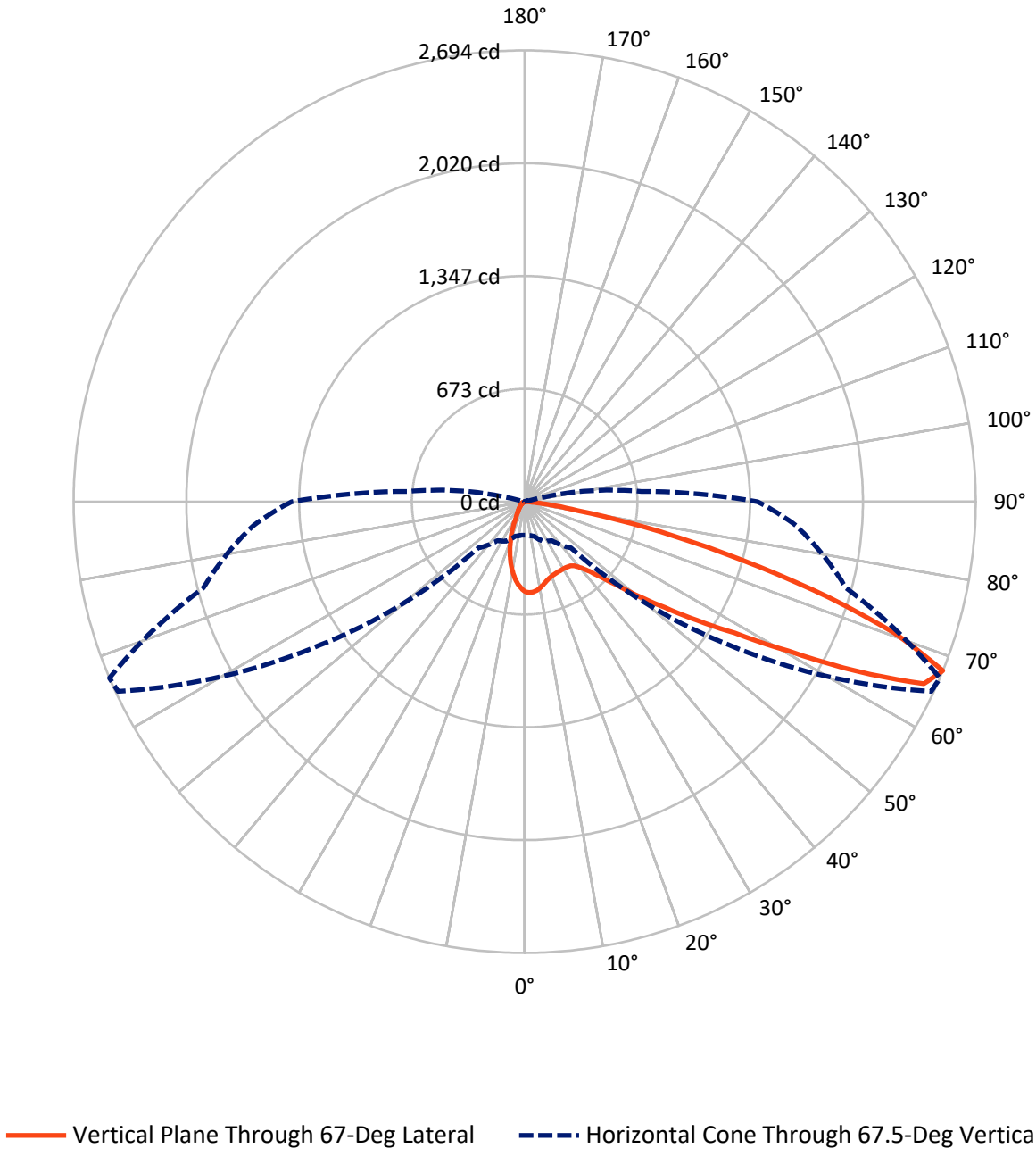
Luminous Intensity Polar Plot



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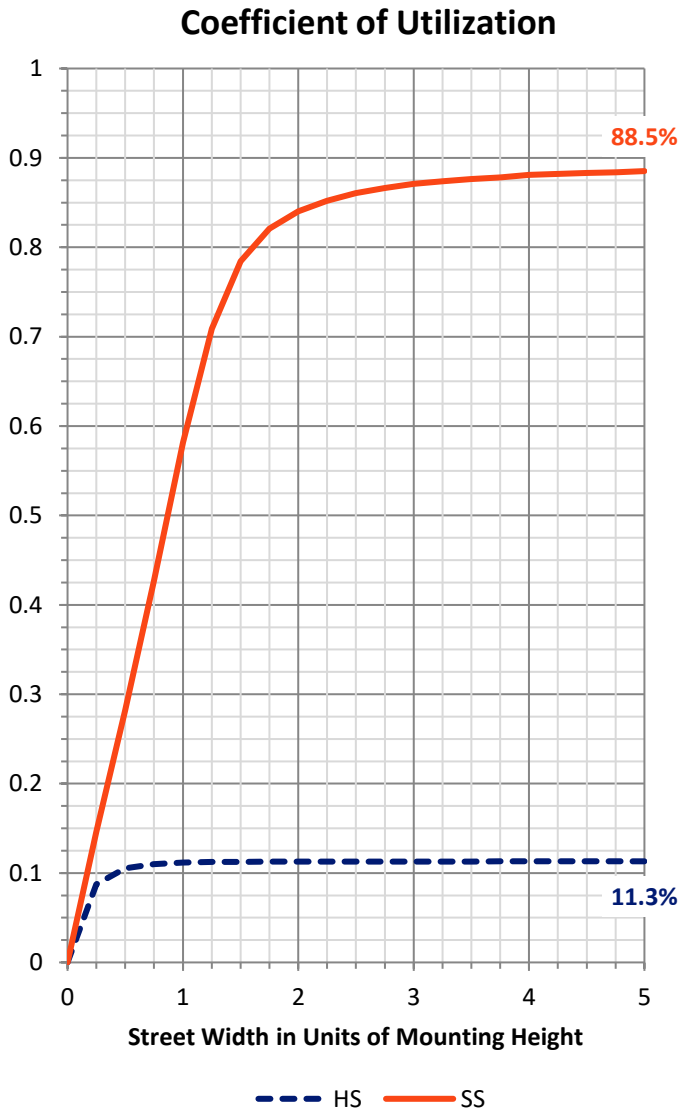
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.4	0.0	251.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	1951.6	0.0	1951.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	2203.0	0.0	2203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	2.0
10°-20°	95.0	4.3
20°-30°	136.0	6.2
30°-40°	200.2	9.1
40°-50°	330.7	15.0
50°-60°	532.0	24.1
60°-70°	580.1	26.3
70°-80°	264.0	12.0
80°-90°	21.2	1.0
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°	2203.0	100.0
0°-180°	2203.0	100.0



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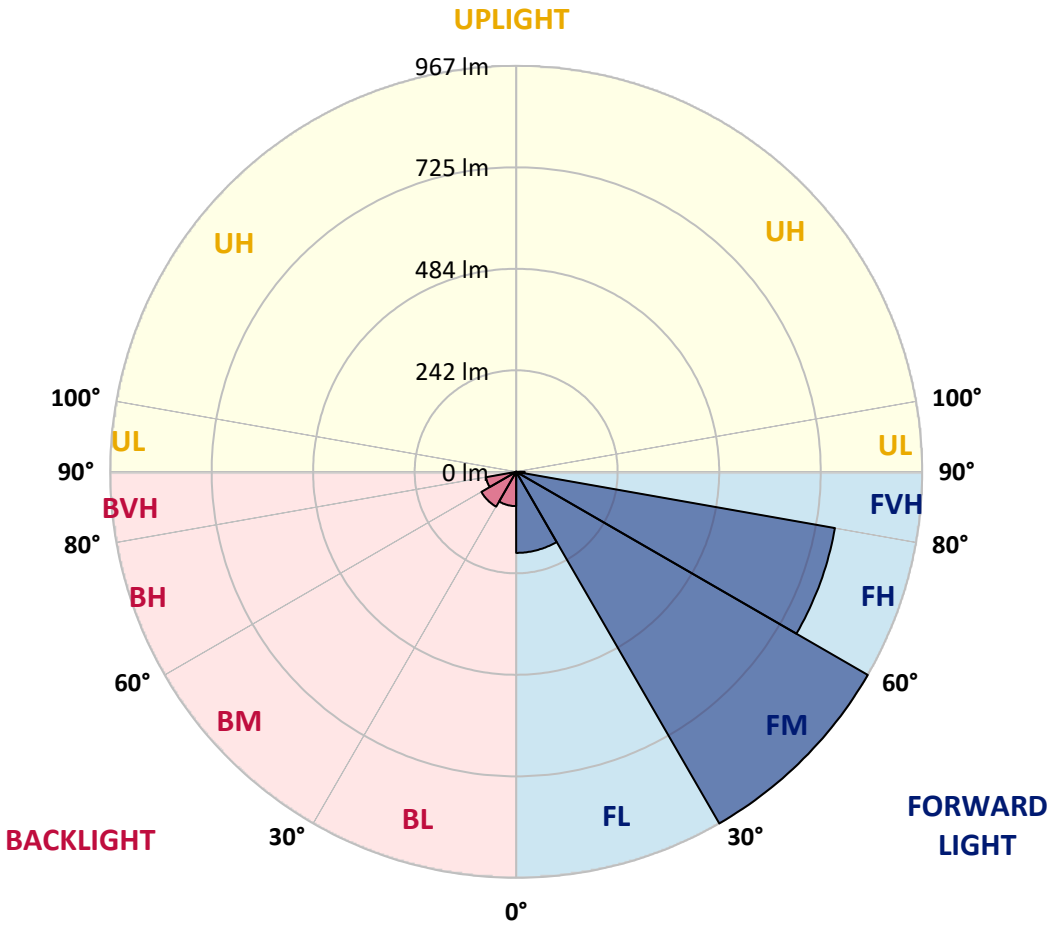
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	193.1	8.8			
FM	(30°-60°)	967.2	43.9			
FH	(60°-80°)	771.1	35.0			G1/1800
FVH	(80°-90°)	20.2	0.9			G1/100
BL	(0°-30°)	81.7	3.7	B0/110		
BM	(30°-60°)	95.7	4.3	B0/220		
BH	(60°-80°)	73.0	3.3	B0/110		G0/110
BVH	(80°-90°)	1.1	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	530.8	535.6	536.6	538.5	538.5	541.4	542.4	544.3	543.3	544.3	542.4
5°	494.0	497.9	496.0	505.6	511.4	522.1	532.7	541.4	541.4	544.3	543.3
7.5°	457.3	461.2	461.2	468.9	478.6	494.0	511.4	531.7	533.7	543.3	540.4
10°	428.3	430.2	432.2	440.9	452.5	467.9	491.1	517.2	521.1	537.5	538.5
12.5°	405.1	408.0	410.9	419.6	430.2	445.7	467.9	497.9	504.7	527.9	536.6
15°	393.5	393.5	396.4	404.1	413.8	430.2	450.5	485.3	491.1	522.1	535.6
17.5°	387.7	388.7	390.6	394.5	402.2	415.7	438.0	471.8	479.5	517.2	535.6
20°	395.4	395.4	392.5	394.5	398.3	409.0	429.3	462.1	471.8	514.3	540.4
22.5°	411.9	411.9	407.0	404.1	401.2	405.1	423.5	458.3	467.0	514.3	543.3
25°	437.0	437.0	434.1	425.4	412.8	409.9	424.4	457.3	464.1	515.3	547.2
27.5°	467.0	467.9	465.0	455.4	436.0	419.6	427.3	455.4	463.1	514.3	549.2
30°	506.6	510.5	506.6	493.1	469.9	438.9	434.1	454.4	462.1	512.4	550.1
32.5°	546.3	549.2	553.0	544.3	511.4	468.9	448.6	458.3	465.0	513.4	548.2
35°	584.9	592.7	599.4	602.3	568.5	511.4	472.8	467.0	469.9	516.3	548.2
37.5°	626.5	634.2	648.7	663.2	635.2	558.8	508.5	486.3	486.3	525.9	554.0
40°	679.7	683.5	711.6	729.0	715.4	635.2	559.8	519.2	518.2	553.0	570.4
42.5°	730.9	741.5	778.3	804.4	795.7	725.1	621.7	577.2	567.5	596.5	600.4
45°	805.4	821.8	850.8	889.5	898.2	825.7	717.4	651.6	642.0	661.3	650.7
47.5°	875.0	886.6	914.6	963.9	1014.2	955.2	825.7	756.0	747.3	755.1	737.7
50°	897.2	903.0	934.9	995.8	1114.7	1140.8	974.5	891.4	890.4	884.6	855.6
52.5°	858.5	859.5	896.2	970.7	1156.3	1343.9	1185.3	1066.4	1050.0	1037.4	998.7
55°	740.6	749.3	780.2	873.0	1115.7	1460.9	1522.7	1278.1	1251.1	1205.6	1157.3
57.5°	579.1	575.3	600.4	685.5	991.0	1507.3	1855.3	1546.9	1479.2	1342.9	1278.1
60°	421.5	411.9	428.3	476.6	720.3	1416.4	2047.7	1925.9	1809.9	1490.8	1427.0
62.5°	313.2	313.2	330.7	352.9	441.8	1105.1	2077.7	2360.0	2229.5	1678.4	1584.6
65°	250.4	249.4	263.9	297.8	315.2	685.5	1926.9	2669.4	2620.1	1873.7	1688.1
67.5°	200.1	200.1	212.7	259.1	283.3	389.6	1490.8	2679.0	2693.5	1985.8	1625.2
70°	141.2	146.0	161.5	216.6	273.6	297.8	904.0	2301.0	2338.7	1952.0	1458.0
72.5°	79.3	83.1	111.2	160.5	263.0	286.2	505.6	1738.3	1802.1	1635.9	1189.2
75°	37.7	41.6	64.8	110.2	219.5	272.6	307.4	1232.7	1224.0	1062.5	738.6
77.5°	16.4	18.4	29.0	63.8	155.7	254.3	225.3	770.6	735.7	498.9	310.3
80°	5.8	6.8	12.6	36.7	88.0	207.9	187.6	355.8	321.9	138.3	81.2
82.5°	1.0	1.0	4.8	17.4	39.6	116.0	154.7	170.2	147.0	34.8	34.8
85°	0.0	0.0	1.0	5.8	9.7	10.6	69.6	68.6	57.0	11.6	17.4
87.5°	0.0	0.0	0.0	1.0	1.0	1.9	1.9	1.9	1.9	1.9	2.9
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-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	537.5	536.6	526.9	518.2	506.6	496.9	488.2	479.5	475.7	476.6	478.6
5°	538.5	532.7	512.4	490.2	467.0	443.8	421.5	408.0	397.4	393.5	397.4
7.5°	533.7	524.0	493.1	457.3	420.6	380.0	346.1	321.0	302.6	291.0	295.8
10°	529.8	515.3	469.9	415.7	363.5	310.3	262.0	226.2	201.1	186.6	183.7
12.5°	523.0	505.6	442.8	374.2	301.6	229.1	171.1	133.4	113.1	102.5	105.4
15°	521.1	494.0	415.7	325.8	235.9	154.7	103.4	82.2	73.5	71.5	71.5
17.5°	519.2	486.3	386.7	278.4	169.2	96.7	71.5	65.7	63.8	62.8	63.8
20°	517.2	475.7	357.7	227.2	114.1	69.6	61.9	59.0	57.0	57.0	56.1
22.5°	519.2	468.9	330.7	178.9	78.3	59.0	54.1	52.2	50.3	49.3	49.3
25°	517.2	460.2	297.8	131.5	60.9	52.2	48.3	44.5	42.5	41.6	40.6
27.5°	514.3	449.6	266.8	94.7	53.2	46.4	41.6	37.7	34.8	33.8	33.8
30°	511.4	436.0	231.1	69.6	48.3	41.6	35.8	31.9	29.0	27.1	27.1
32.5°	503.7	423.5	196.3	56.1	43.5	36.7	30.9	26.1	24.2	23.2	23.2
35°	498.9	409.0	159.5	48.3	39.6	31.9	26.1	22.2	20.3	19.3	19.3
37.5°	497.9	393.5	126.7	43.5	35.8	28.0	22.2	19.3	17.4	16.4	16.4
40°	501.8	385.8	97.6	39.6	30.9	24.2	19.3	16.4	14.5	13.5	13.5
42.5°	517.2	384.8	74.4	35.8	28.0	21.3	17.4	13.5	11.6	10.6	10.6
45°	552.1	390.6	59.0	32.9	24.2	18.4	14.5	11.6	9.7	8.7	8.7
47.5°	609.1	414.8	49.3	30.0	20.3	15.5	11.6	9.7	6.8	6.8	6.8
50°	701.9	466.0	43.5	26.1	17.4	12.6	9.7	6.8	4.8	4.8	4.8
52.5°	839.2	544.3	39.6	23.2	14.5	10.6	7.7	4.8	3.9	3.9	3.9
55°	981.3	642.0	36.7	19.3	12.6	8.7	5.8	3.9	2.9	2.9	1.9
57.5°	1110.9	722.2	32.9	16.4	9.7	6.8	3.9	2.9	1.9	1.9	1.9
60°	1264.6	802.5	28.0	12.6	7.7	4.8	2.9	1.9	1.0	1.0	1.0
62.5°	1413.5	847.9	23.2	9.7	5.8	3.9	1.9	1.0	1.0	1.0	1.0
65°	1478.3	826.6	18.4	7.7	4.8	2.9	1.0	1.0	1.0	0.0	0.0
67.5°	*1391.2*	*699.0*	*14.5*	*5.8*	*3.9*	*1.9*	*1.0*	*1.0*	*0.0*	*0.0*	*0.0*
70°	1197.9	565.6	11.6	4.8	2.9	1.0	1.0	1.0	0.0	0.0	0.0
72.5°	940.7	416.7	9.7	3.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0
75°	572.4	209.8	8.7	2.9	1.9	1.9	1.0	1.0	1.0	0.0	0.0
77.5°	194.3	65.7	5.8	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
80°	57.0	21.3	4.8	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	30.0	9.7	2.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	16.4	4.8	1.9	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0
87.5°	2.9	1.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0
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

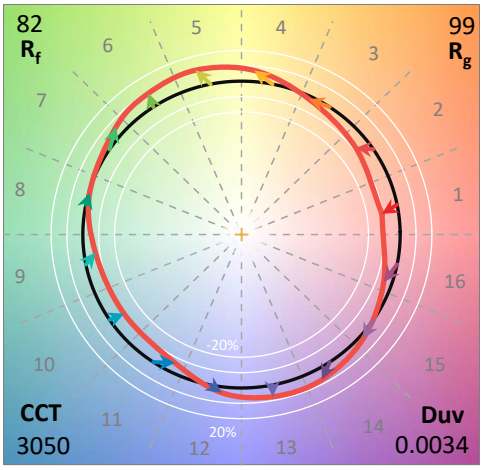
Test Information

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

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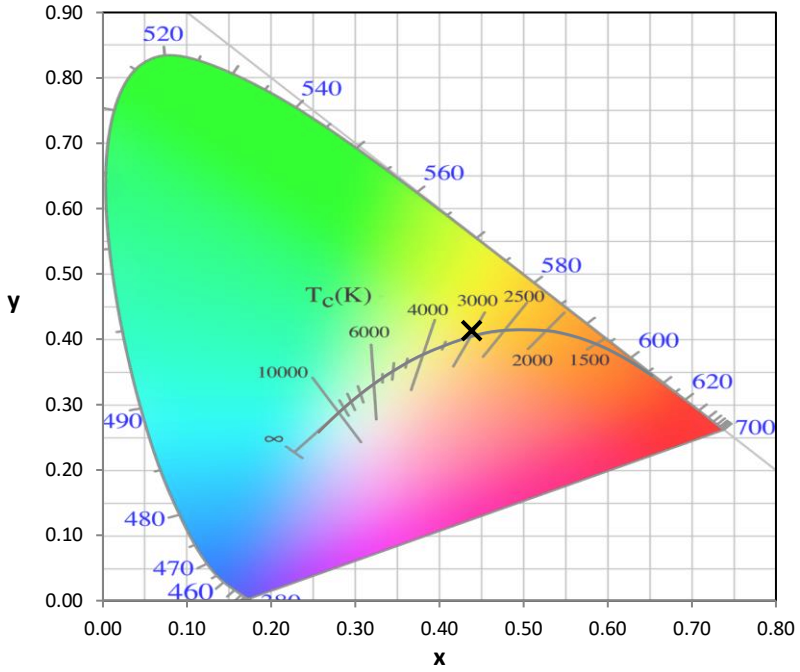
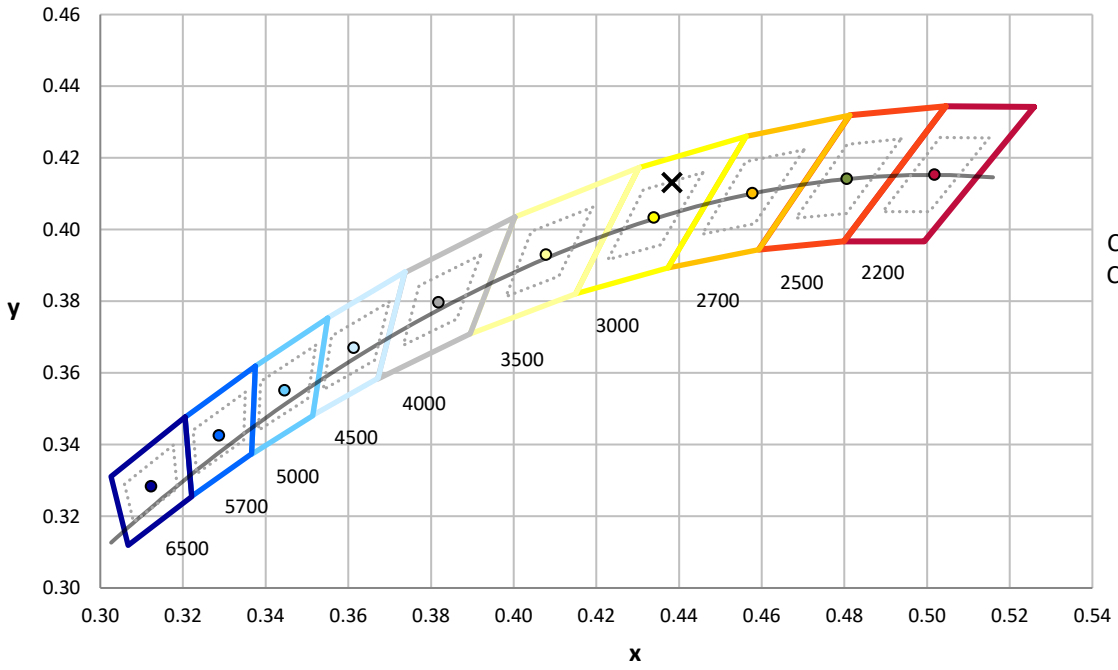
CIE 1931 Chromaticity Diagram



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

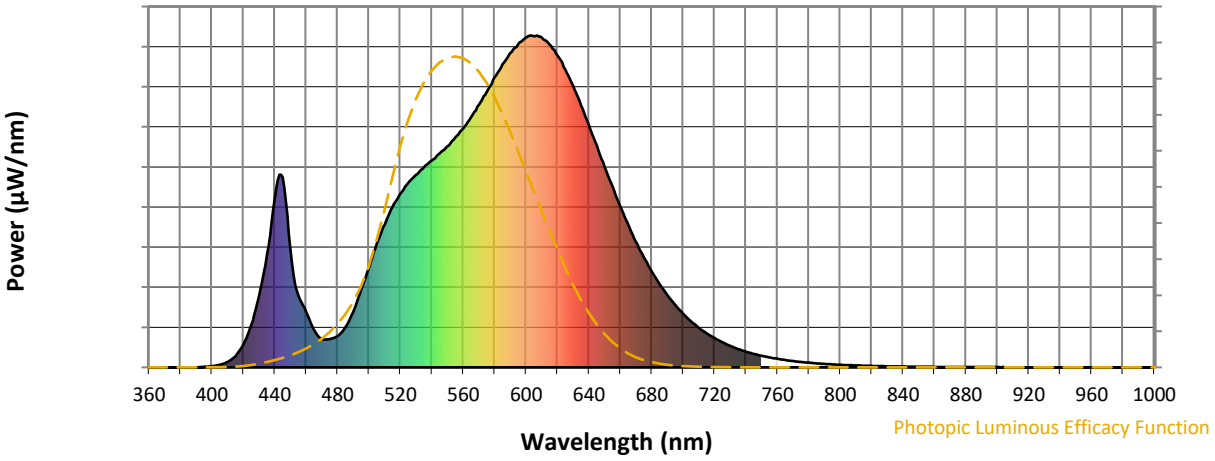


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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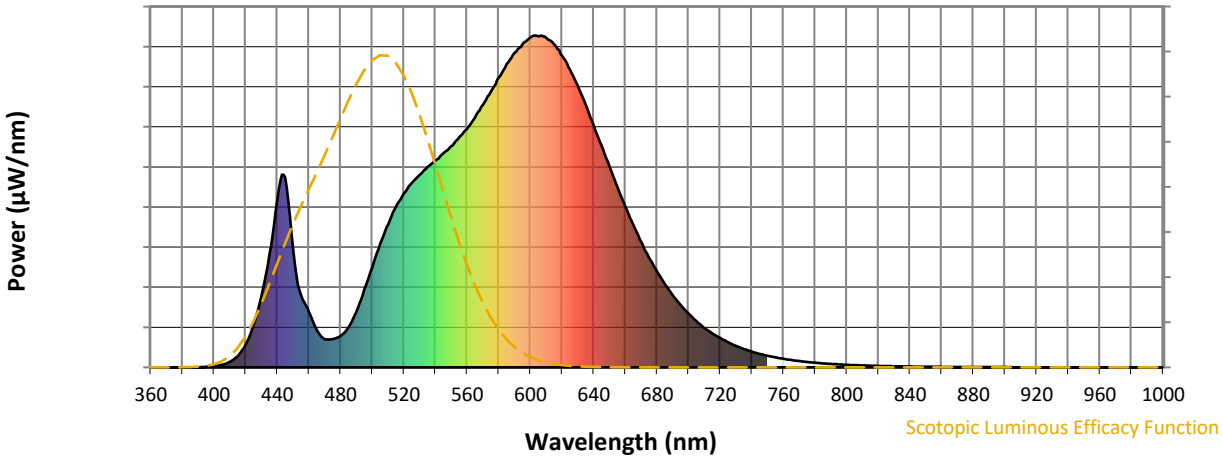
Scotopic Flux vs. Wavelength



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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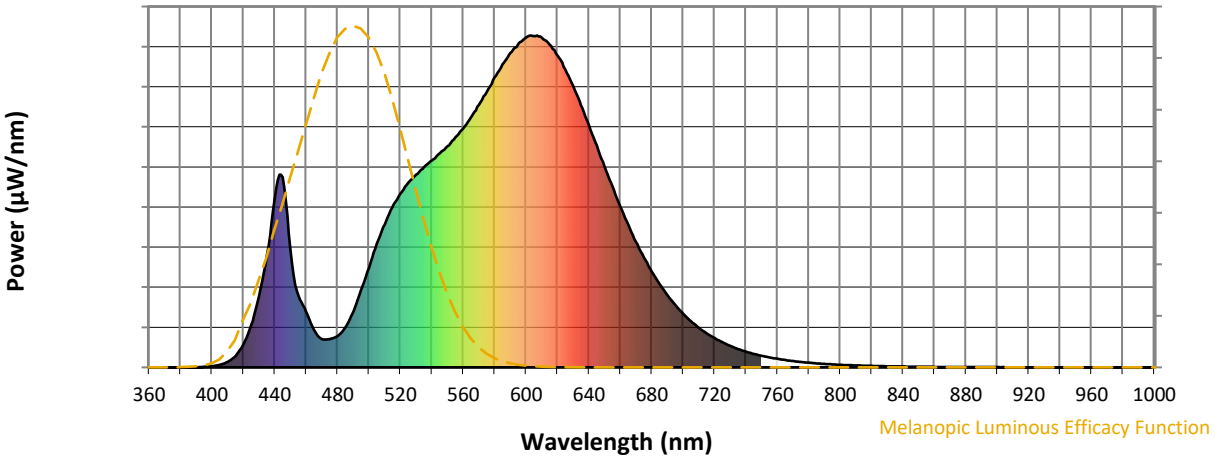
Melanopic Flux vs. Wavelength



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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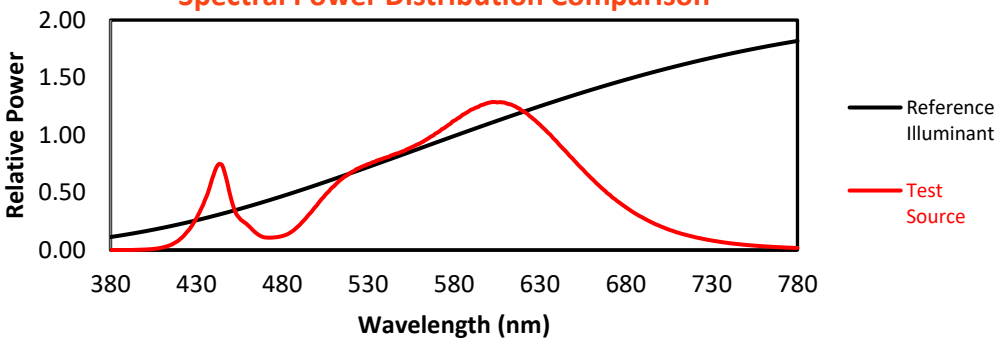
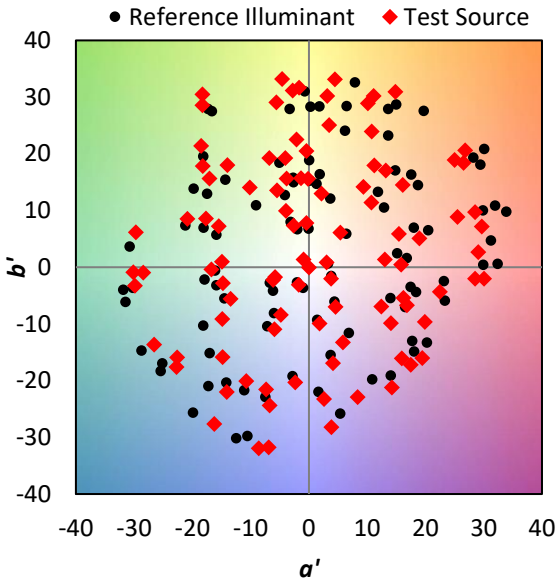
Summary

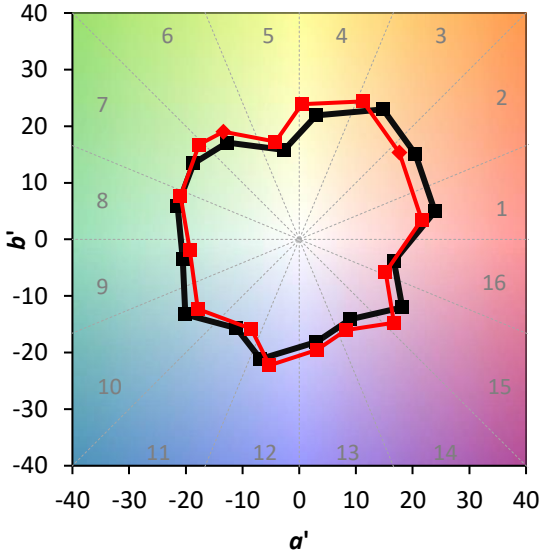
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

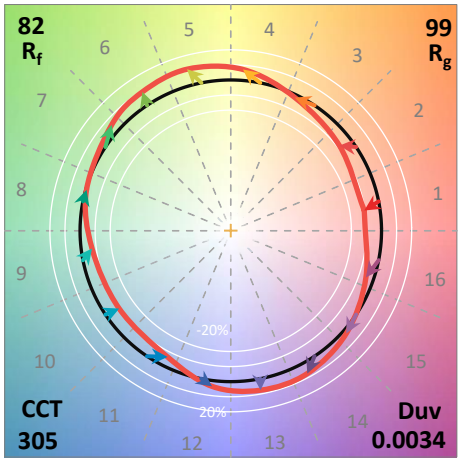
Spectral Power Distribution Comparison

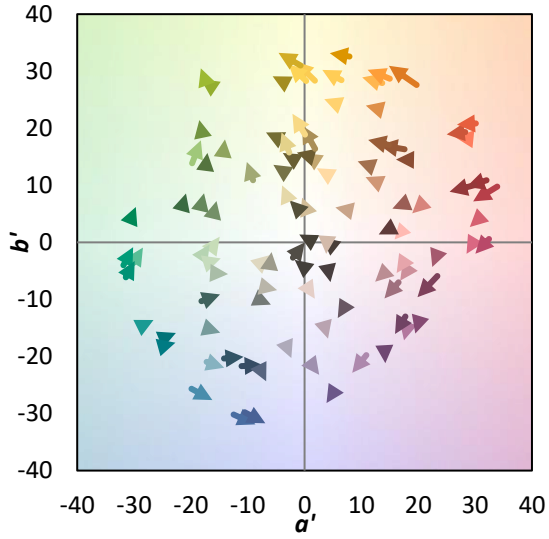


Color Vector Graphics









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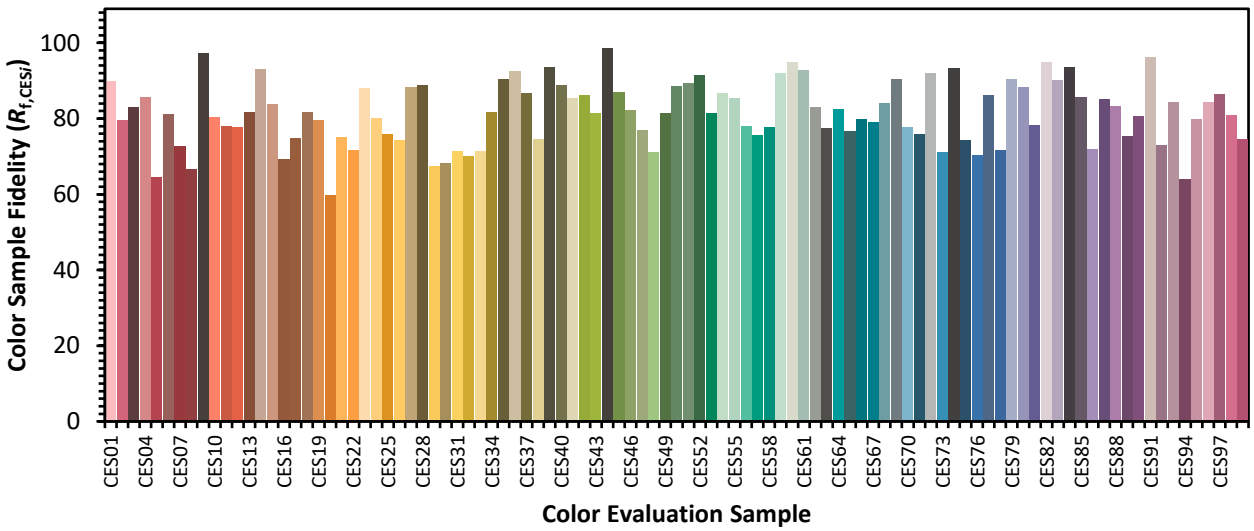
Individual Sample Fidelity Index ($R_{f,i}$)

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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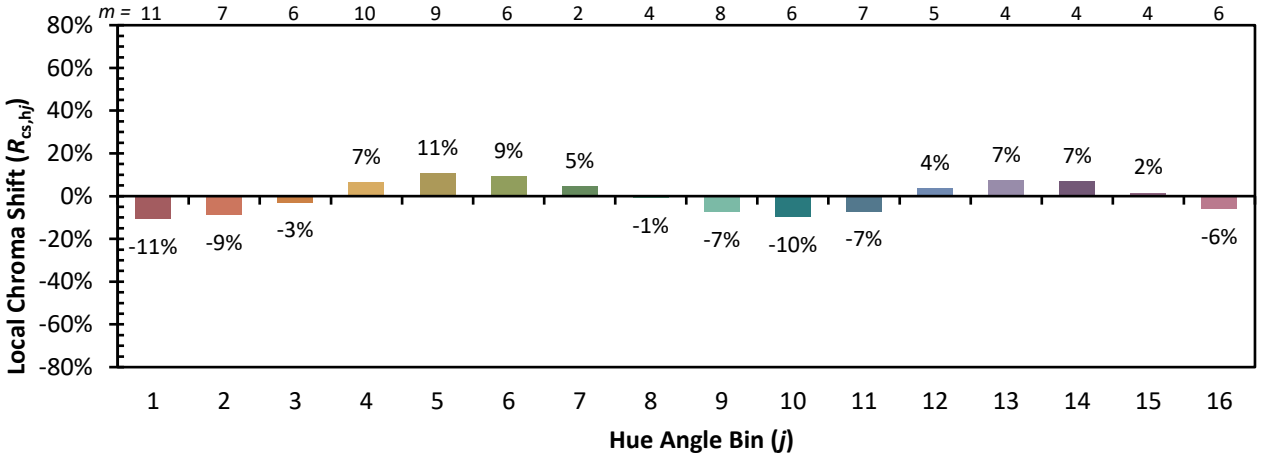
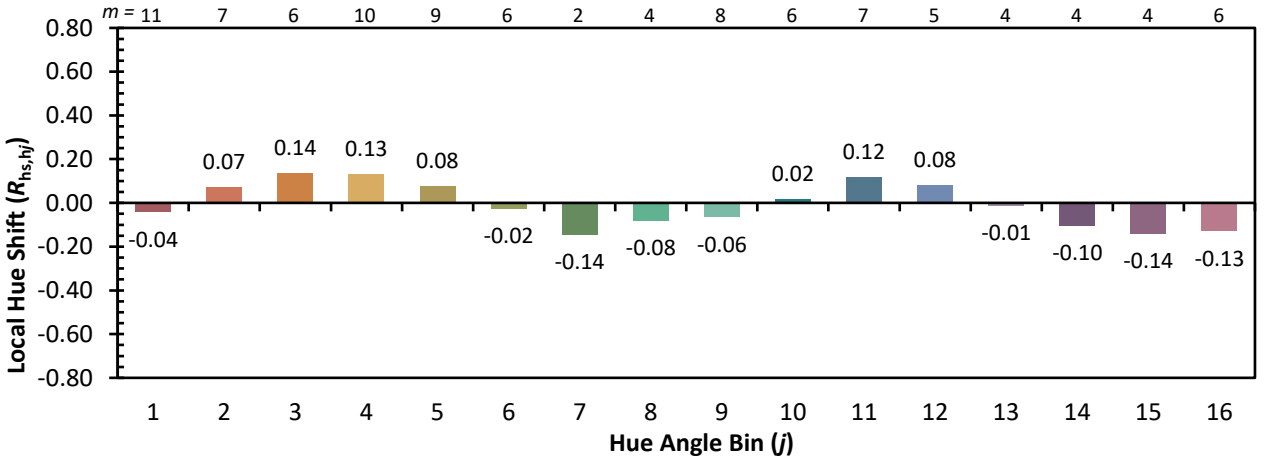
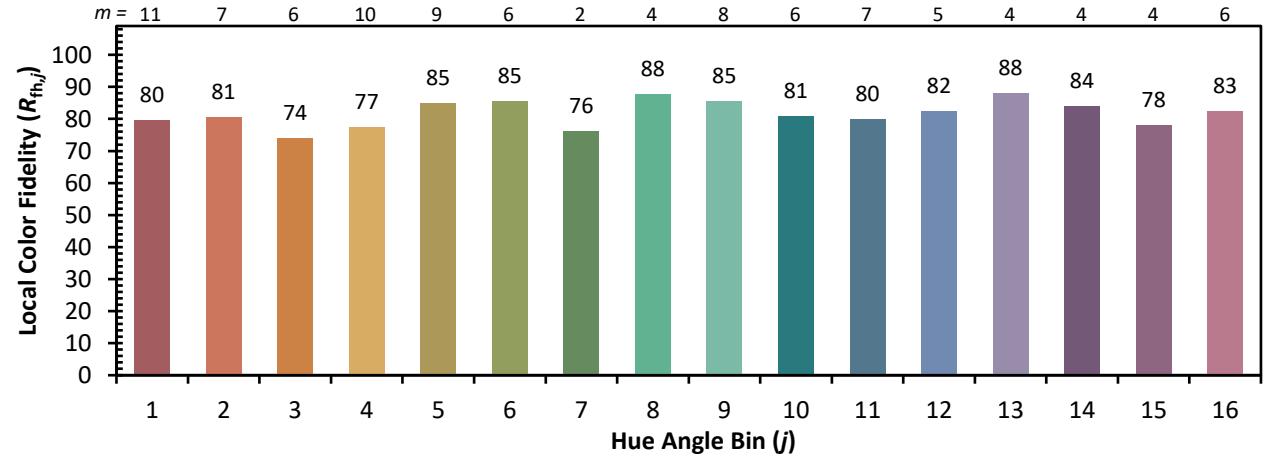
Color Rendition by Hue-Angle Bin







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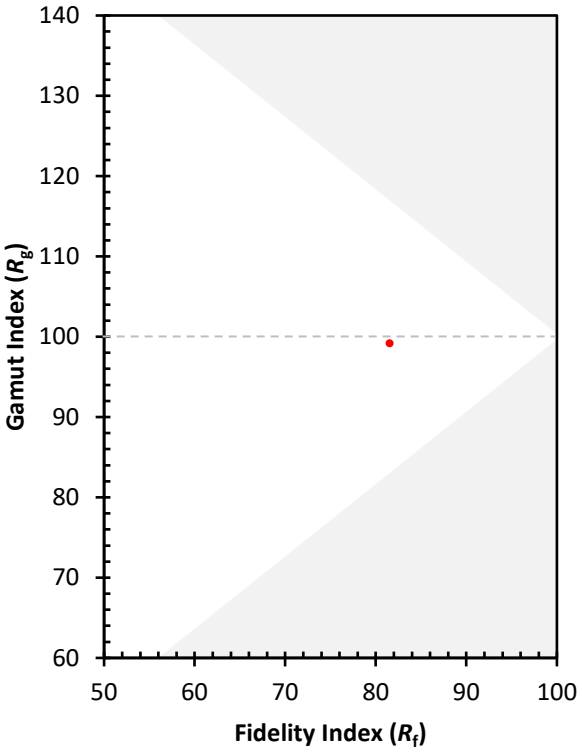
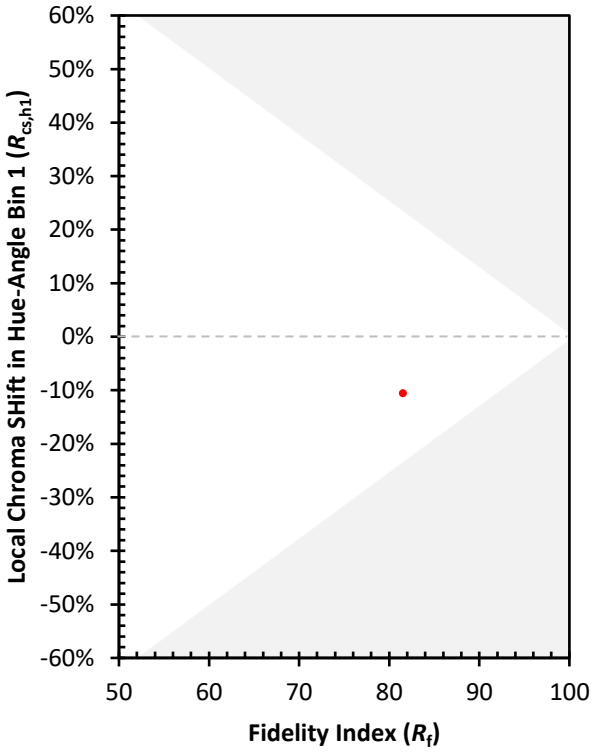
Measure Comparisons





(END OF REPORT)