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: P437252

Luminaire Tested: **ISC-SA1B-830-U-SL4-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:	P437252
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-19)
Test Lab:	INNOVATION CENTER
Issue Date:	12/9/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISC-SA1B-830-U-SL4-HSS
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2255 lumens
Efficiency:	N/A
Efficacy:	88.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - 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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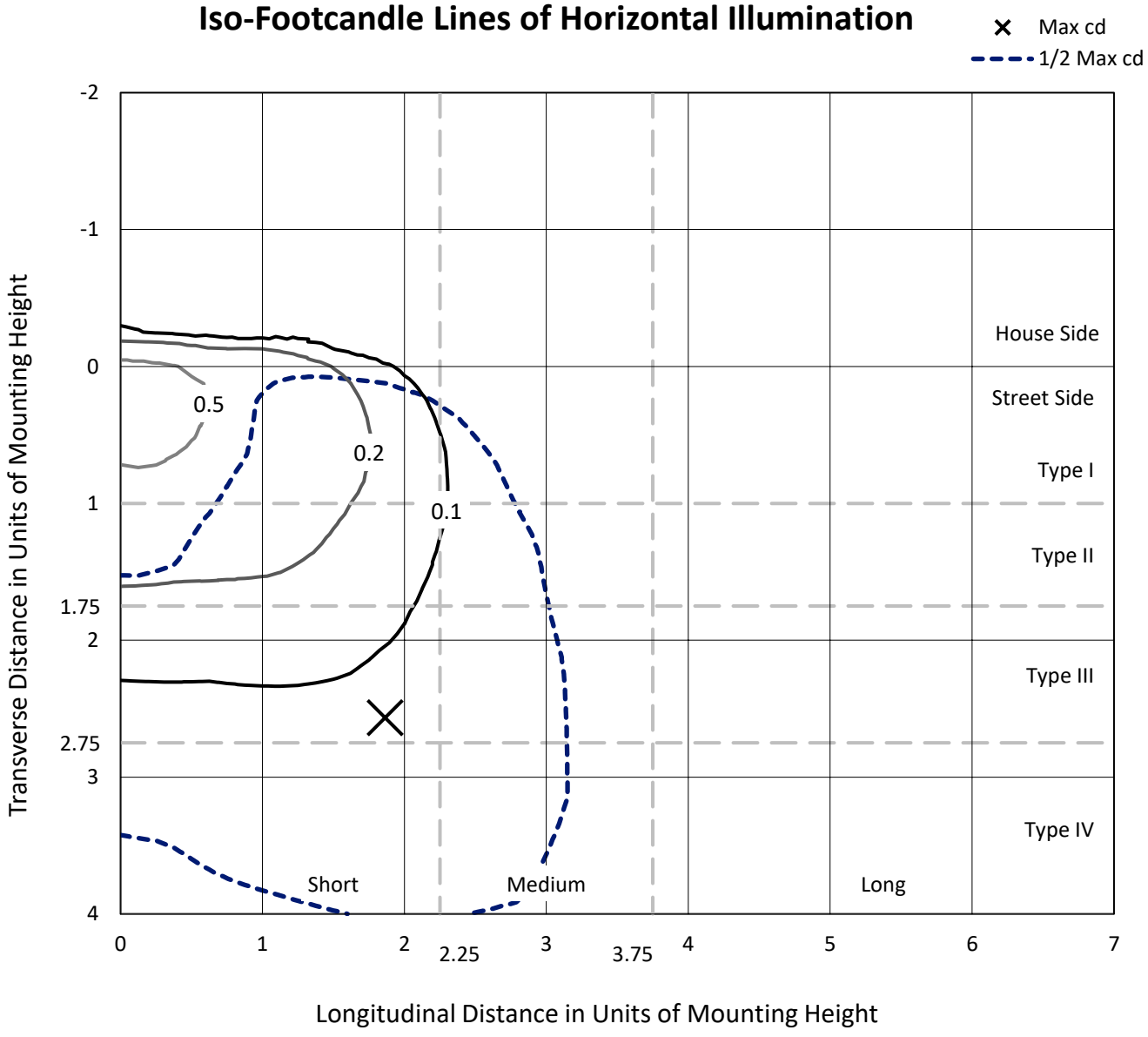
REPORT NUMBER: P437252
CATALOG NUMBER: ISC-SA1B-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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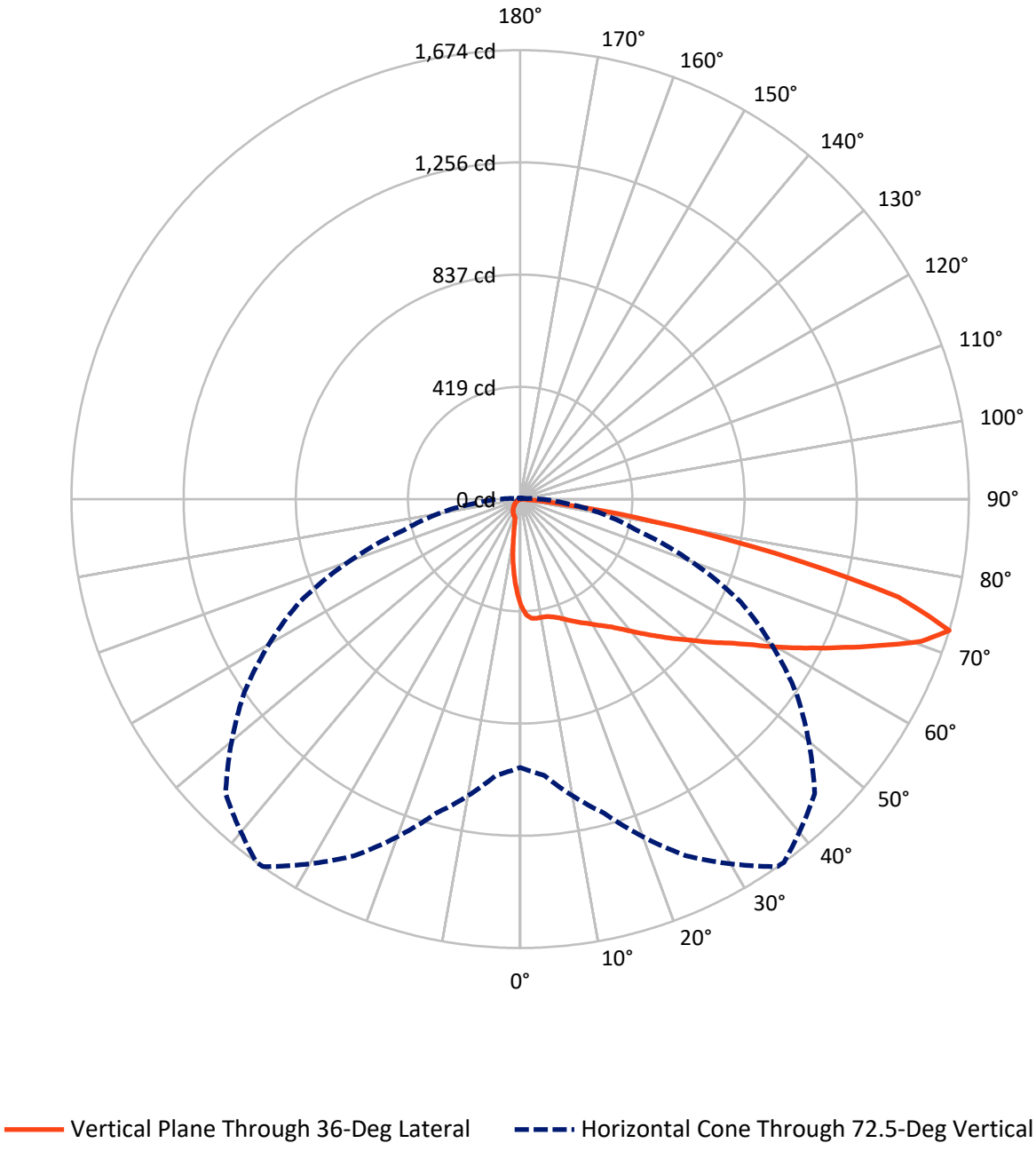
Luminous Intensity Polar Plot



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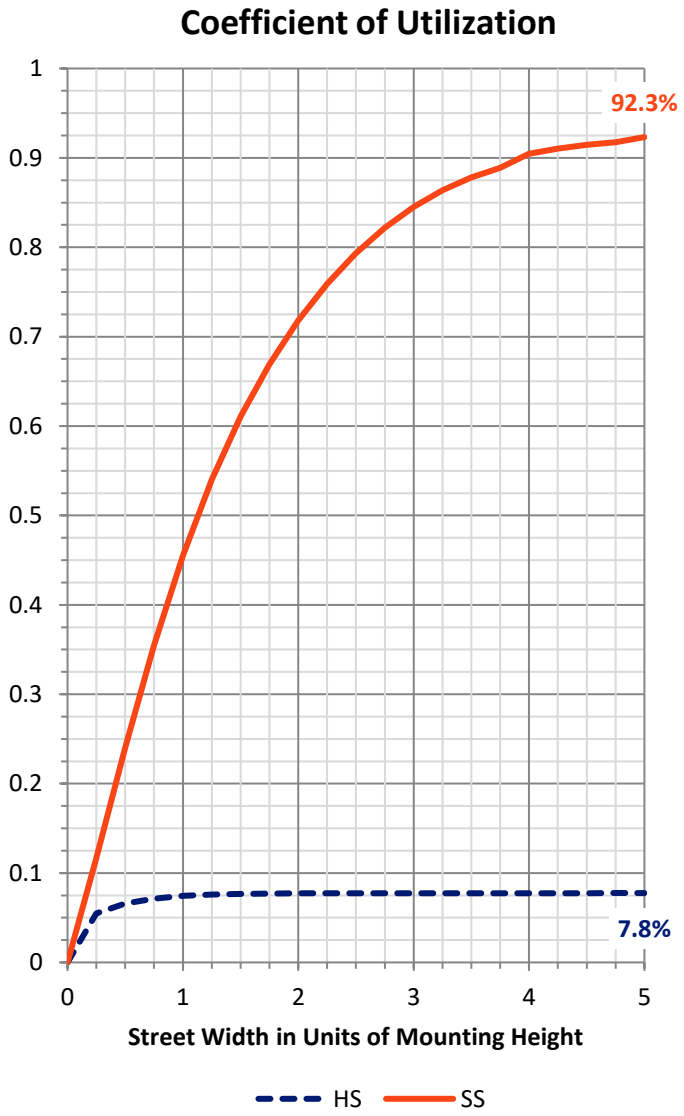
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	175.9	0.0	175.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	2079.1	0.0	2079.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	2255.0	0.0	2255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	1.5
10°-20°	84.9	3.8
20°-30°	138.7	6.1
30°-40°	210.8	9.3
40°-50°	322.4	14.3
50°-60°	458.4	20.3
60°-70°	581.3	25.8
70°-80°	398.0	17.7
80°-90°	26.7	1.2
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°	2255.0	100.0
0°-180°	2255.0	100.0



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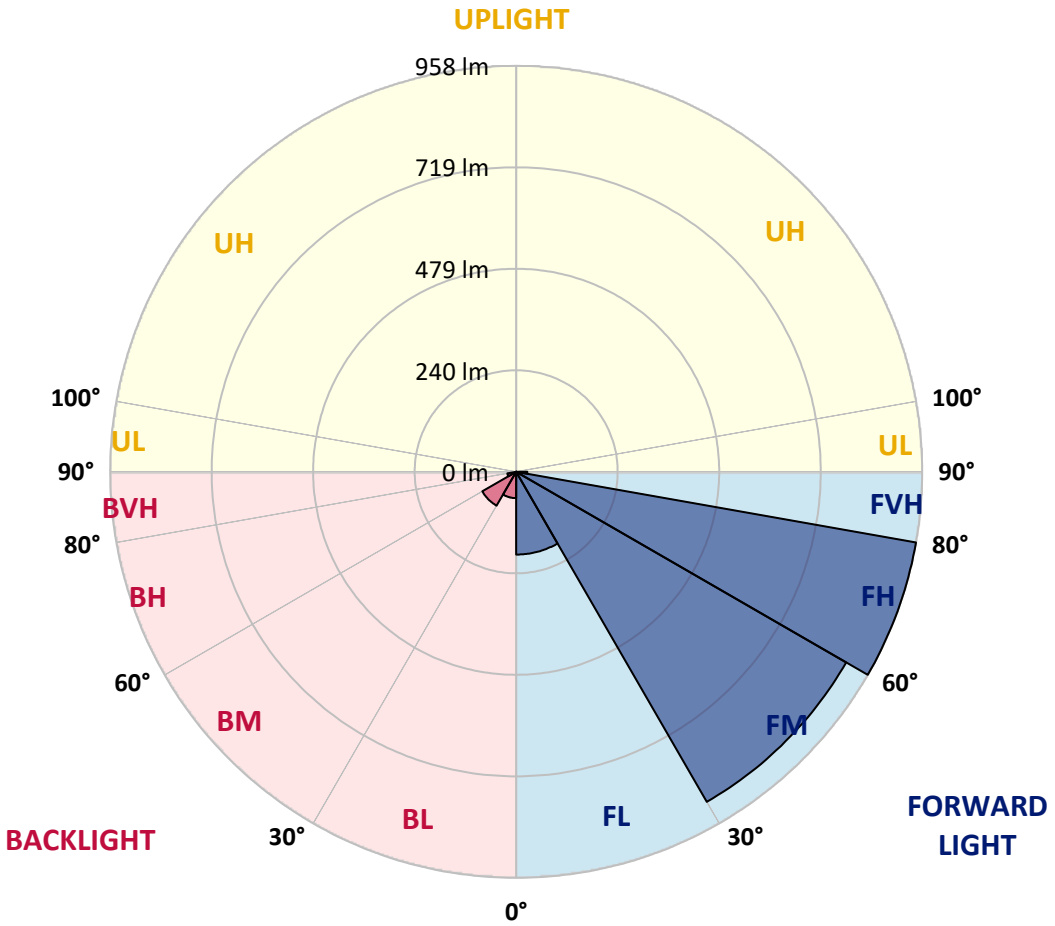
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	195.3	8.7			
FM	(30°-60°)	899.4	39.9			
FH	(60°-80°)	958.1	42.5			G1/1800
FVH	(80°-90°)	26.3	1.2			G1/100
BL	(0°-30°)	62.1	2.8	B0/110		
BM	(30°-60°)	92.3	4.1	B0/220		
BH	(60°-80°)	21.2	0.9	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 IV Short



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CATALOG NUMBER: ISC-SA1B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	396.0	396.0	396.0	396.0	396.0	*396.0*	396.0	396.0	396.0	396.0	396.0
2.5°	443.7	440.7	438.7	436.7	430.7	*431.7*	425.8	419.8	410.9	406.9	401.0
5°	454.6	453.6	452.6	449.6	444.6	*446.6*	440.7	434.7	421.8	409.9	397.0
7.5°	452.6	454.6	453.6	451.6	447.6	*448.6*	443.7	437.7	426.8	410.9	393.0
10°	448.6	449.6	449.6	448.6	447.6	*447.6*	443.7	438.7	428.8	414.9	392.0
12.5°	440.7	442.7	445.6	447.6	448.6	*449.6*	446.6	442.7	433.7	418.8	395.0
15°	437.7	439.7	445.6	451.6	454.6	*455.6*	452.6	447.6	439.7	426.8	400.0
17.5°	437.7	439.7	449.6	458.5	464.5	*465.5*	461.5	456.6	446.6	433.7	405.9
20°	443.7	445.6	457.5	473.4	476.4	*478.4*	472.4	465.5	454.6	441.7	412.9
22.5°	453.6	456.6	471.4	486.3	492.3	*493.3*	486.3	473.4	463.5	450.6	418.8
25°	470.4	477.4	491.3	507.2	508.2	*509.2*	498.2	485.3	473.4	460.5	425.8
27.5°	494.3	500.2	512.1	530.0	524.0	*524.0*	515.1	498.2	486.3	474.4	437.7
30°	525.0	529.0	542.9	549.9	541.9	*542.9*	532.0	516.1	506.2	494.3	455.6
32.5°	553.8	556.8	571.7	572.7	563.7	*562.8*	554.8	536.0	528.0	524.0	480.4
35°	580.6	584.6	596.5	595.5	586.6	*585.6*	581.6	564.7	564.7	568.7	517.1
37.5°	600.5	610.4	625.3	621.3	615.4	*615.4*	612.4	599.5	609.4	624.3	565.7
40°	626.3	632.2	652.1	649.1	650.1	*650.1*	651.1	643.1	661.0	685.8	622.3
42.5°	640.2	652.1	675.9	679.9	688.8	*688.8*	696.7	694.8	728.5	760.3	687.8
45°	662.0	674.9	700.7	715.6	726.5	*731.5*	745.4	756.3	803.9	843.6	757.3
47.5°	689.8	700.7	722.5	750.3	770.2	*778.1*	805.9	823.8	887.3	928.0	822.8
50°	727.5	729.5	745.4	787.1	821.8	*826.8*	870.4	900.2	971.7	1009.4	869.4
52.5°	768.2	764.2	773.2	829.7	878.4	*887.3*	936.9	982.6	1054.0	1062.0	888.3
55°	800.0	800.0	806.9	876.4	941.9	*946.9*	1016.3	1065.0	1129.5	1092.8	900.2
57.5°	840.7	836.7	847.6	924.0	1021.3	*1025.3*	1105.7	1143.4	1171.2	1112.6	898.2
60°	870.4	875.4	892.3	985.6	1103.7	*1121.5*	1189.0	1200.9	1214.8	1119.6	892.3
62.5°	912.1	911.1	943.9	1054.0	1210.9	*1222.8*	1269.4	1249.6	1248.6	1131.5	884.3
65°	946.9	954.8	1004.4	1136.4	1325.0	*1332.9*	1348.8	1323.0	1295.2	1144.4	814.9
67.5°	1000.5	1016.3	1078.9	1244.6	1447.1	*1456.0*	1469.9	1413.3	1308.1	1053.1	678.9
70°	1061.0	1081.8	1183.1	1388.5	1578.1	*1588.0*	1591.0	1422.3	1185.1	826.8	460.5
72.5°	*1000.5*	*1034.2*	*1212.8*	*1467.9*	*1673.4*	*1674.4*	*1554.3*	*1256.5*	*908.1*	*451.6*	*162.8*
75°	644.1	686.8	1004.4	1302.2	1441.1	*1457.0*	1218.8	878.4	423.8	101.2	45.7
77.5°	218.4	233.2	493.3	821.8	966.7	*972.7*	801.9	444.6	134.0	40.7	24.8
80°	126.0	125.1	172.7	359.3	482.4	*501.2*	404.0	177.7	62.5	20.8	16.9
82.5°	29.8	30.8	90.3	131.0	191.6	*172.7*	85.4	107.2	28.8	11.9	14.9
85°	0.0	0.0	14.9	31.8	22.8	*26.8*	7.9	32.8	5.0	5.0	9.9
87.5°	0.0	0.0	0.0	0.0	1.0	*1.0*	1.0	1.0	1.0	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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REPORT NUMBER: P437252
CATALOG NUMBER: ISC-SA1B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0
2.5°	395.0	390.1	380.1	372.2	361.3	352.3	343.4	339.4	332.5	330.5	331.5
5°	389.1	381.1	362.3	343.4	322.6	302.7	281.9	270.0	265.0	256.1	254.1
7.5°	382.1	370.2	343.4	312.6	276.9	248.1	219.3	199.5	181.6	174.7	171.7
10°	379.1	364.3	326.5	279.9	231.3	184.6	148.9	123.1	107.2	101.2	99.3
12.5°	379.1	361.3	310.7	248.1	183.6	130.0	97.3	82.4	77.4	76.4	75.4
15°	383.1	360.3	295.8	214.4	139.0	90.3	74.4	72.5	71.5	71.5	72.5
17.5°	385.1	358.3	279.9	181.6	102.2	72.5	69.5	69.5	69.5	69.5	69.5
20°	390.1	357.3	262.0	146.9	77.4	67.5	66.5	66.5	66.5	66.5	67.5
22.5°	391.0	357.3	240.2	113.1	68.5	64.5	63.5	63.5	63.5	64.5	64.5
25°	397.0	355.3	219.3	86.3	64.5	60.5	60.5	59.6	60.5	60.5	60.5
27.5°	404.9	356.3	193.5	71.5	60.5	57.6	56.6	56.6	56.6	56.6	56.6
30°	413.9	358.3	166.7	63.5	56.6	54.6	53.6	52.6	52.6	52.6	52.6
32.5°	430.7	360.3	138.0	57.6	52.6	50.6	49.6	48.6	48.6	48.6	48.6
35°	456.6	371.2	113.1	53.6	48.6	46.6	45.7	44.7	44.7	44.7	43.7
37.5°	491.3	388.1	89.3	49.6	44.7	42.7	41.7	40.7	39.7	39.7	39.7
40°	533.0	405.9	74.4	44.7	40.7	38.7	37.7	36.7	35.7	34.7	34.7
42.5°	582.6	427.8	59.6	40.7	36.7	34.7	33.7	32.8	30.8	29.8	30.8
45°	638.2	448.6	50.6	37.7	33.7	31.8	30.8	28.8	26.8	25.8	25.8
47.5°	686.8	453.6	44.7	33.7	30.8	28.8	27.8	24.8	22.8	20.8	20.8
50°	719.6	444.6	39.7	30.8	27.8	26.8	24.8	20.8	17.9	16.9	15.9
52.5°	723.5	420.8	34.7	27.8	25.8	23.8	20.8	17.9	14.9	12.9	12.9
55°	719.6	381.1	30.8	25.8	22.8	20.8	17.9	13.9	10.9	9.9	8.9
57.5°	706.7	339.4	27.8	22.8	20.8	17.9	13.9	10.9	7.9	6.9	6.0
60°	682.8	288.8	24.8	20.8	17.9	14.9	10.9	7.9	5.0	4.0	4.0
62.5°	638.2	233.2	21.8	17.9	14.9	11.9	8.9	5.0	3.0	2.0	2.0
65°	549.9	174.7	18.9	14.9	11.9	9.9	6.0	3.0	1.0	0.0	0.0
67.5°	427.8	118.1	14.9	11.9	9.9	7.9	5.0	1.0	0.0	0.0	0.0
70°	252.1	62.5	11.9	8.9	7.9	6.0	3.0	1.0	0.0	0.0	0.0
72.5°	*72.5*	*24.8*	*8.9*	*6.9*	*6.0*	*4.0*	*2.0*	*1.0*	*0.0*	*0.0*	*0.0*
75°	29.8	14.9	6.0	5.0	5.0	3.0	1.0	1.0	0.0	0.0	0.0
77.5°	19.9	10.9	4.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
80°	15.9	6.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
82.5°	13.9	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	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

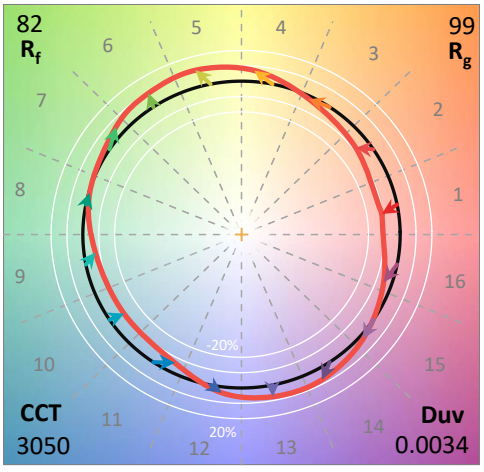
Test Information

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

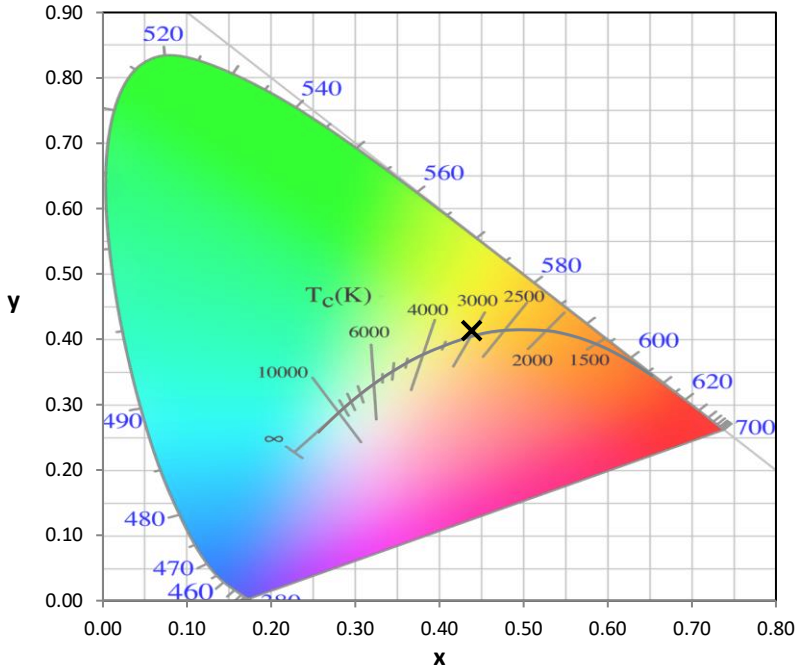
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

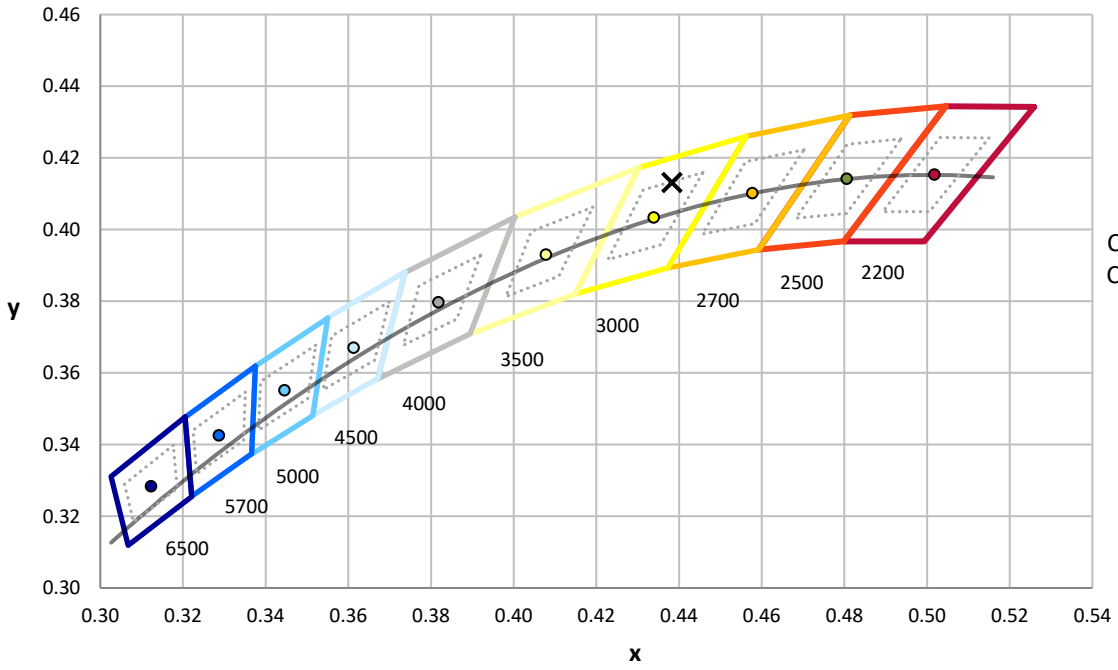
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

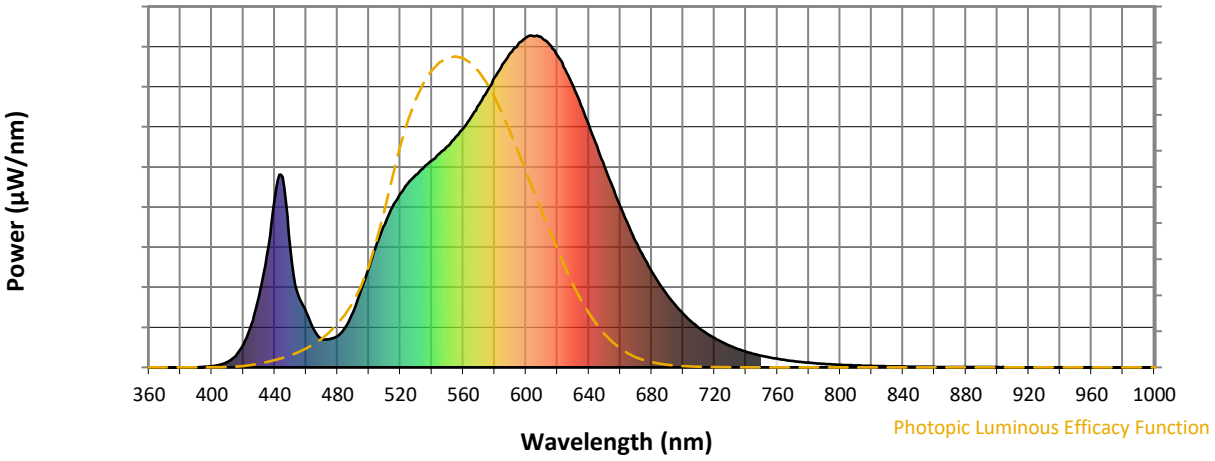


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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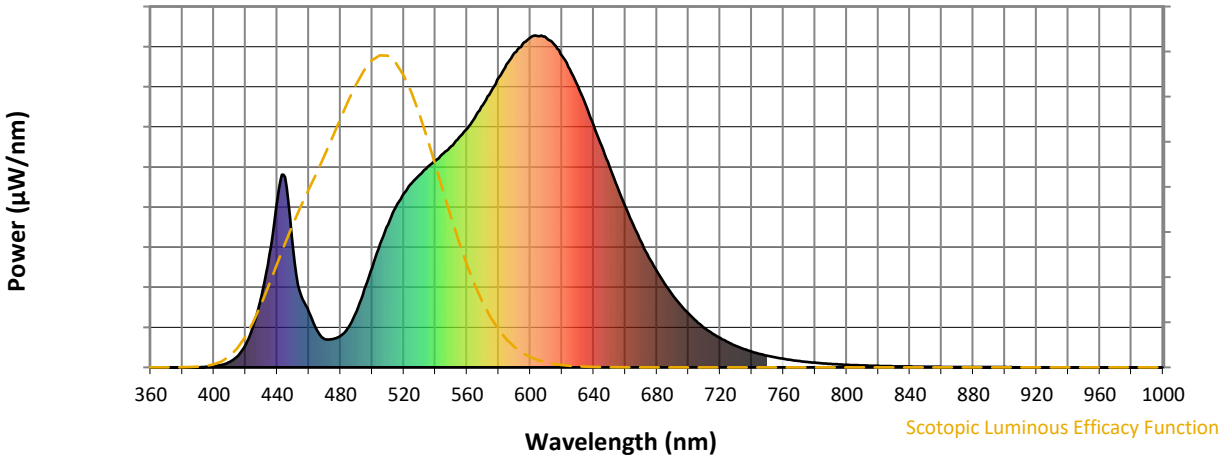
Scotopic Flux vs. Wavelength



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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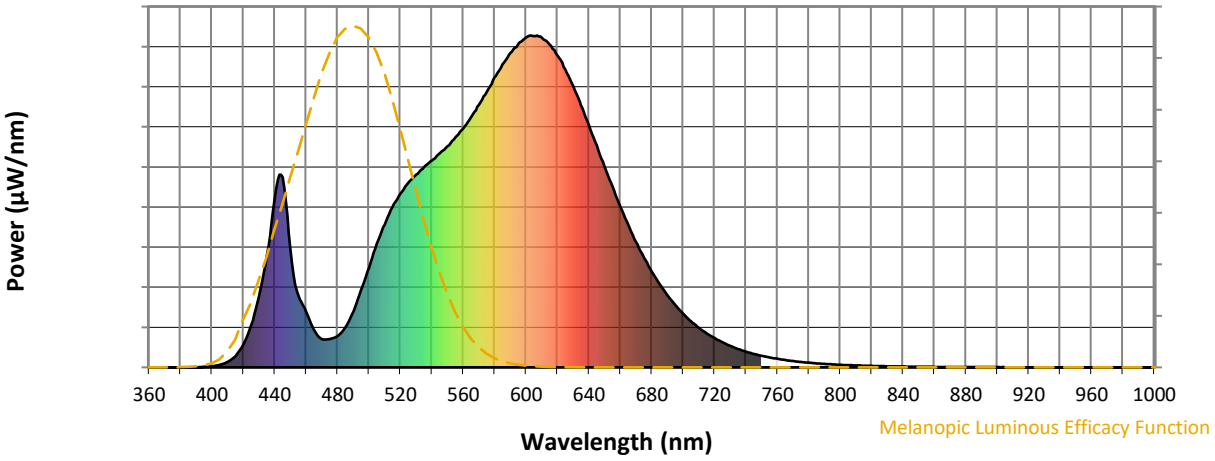
Melanopic Flux vs. Wavelength



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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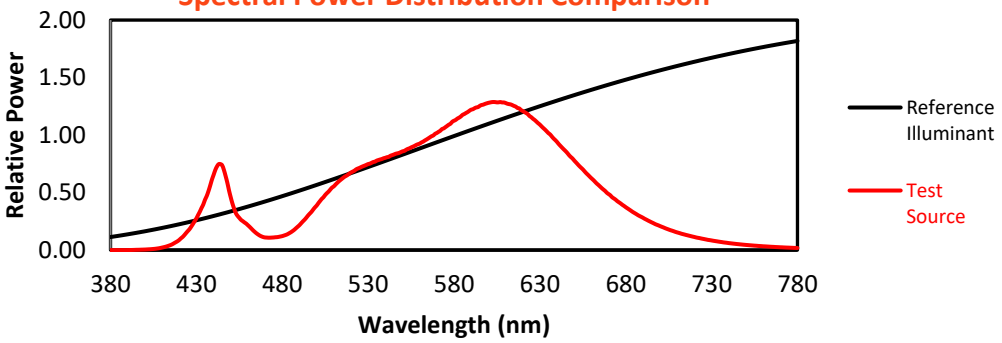
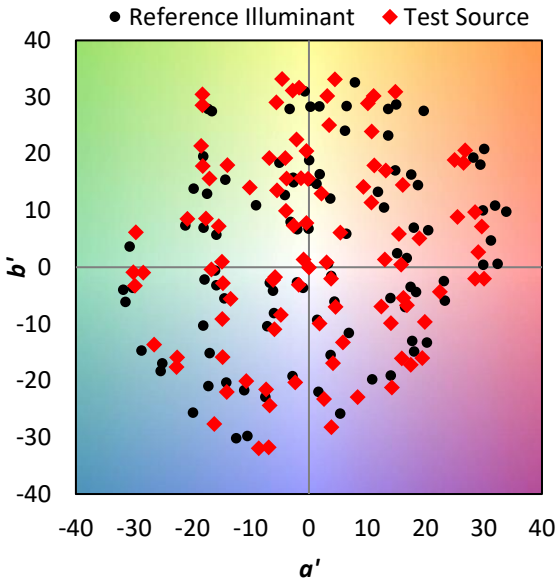
Summary

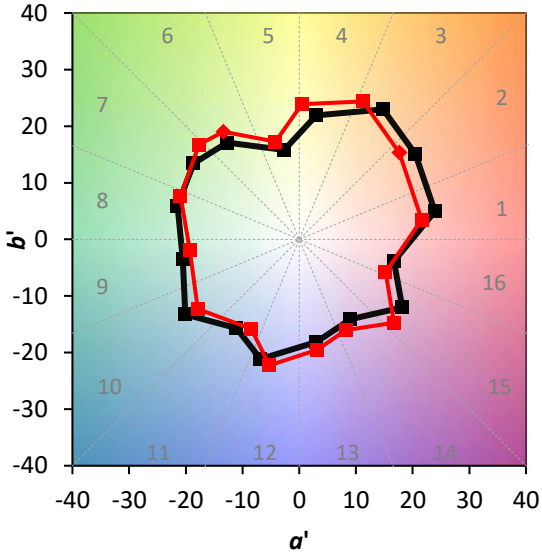
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

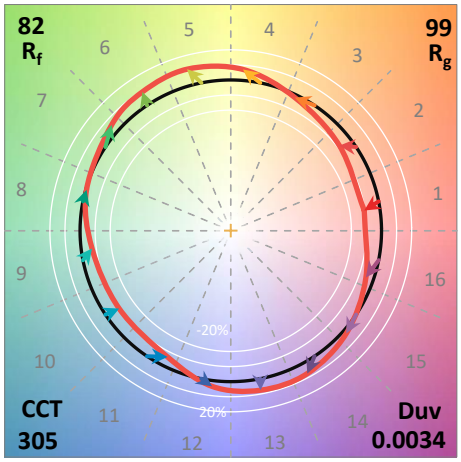
Spectral Power Distribution Comparison

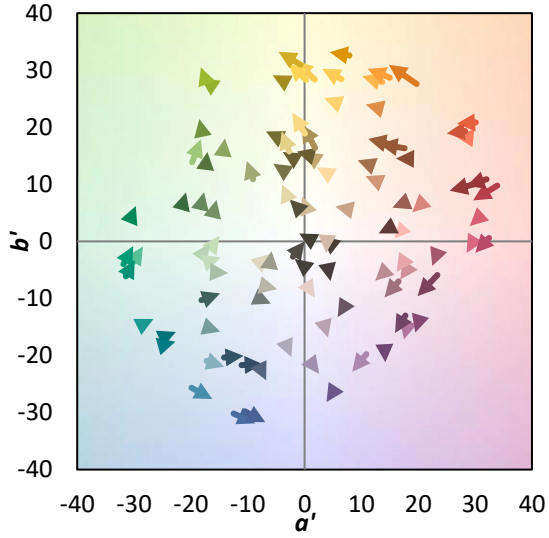


Color Vector Graphics









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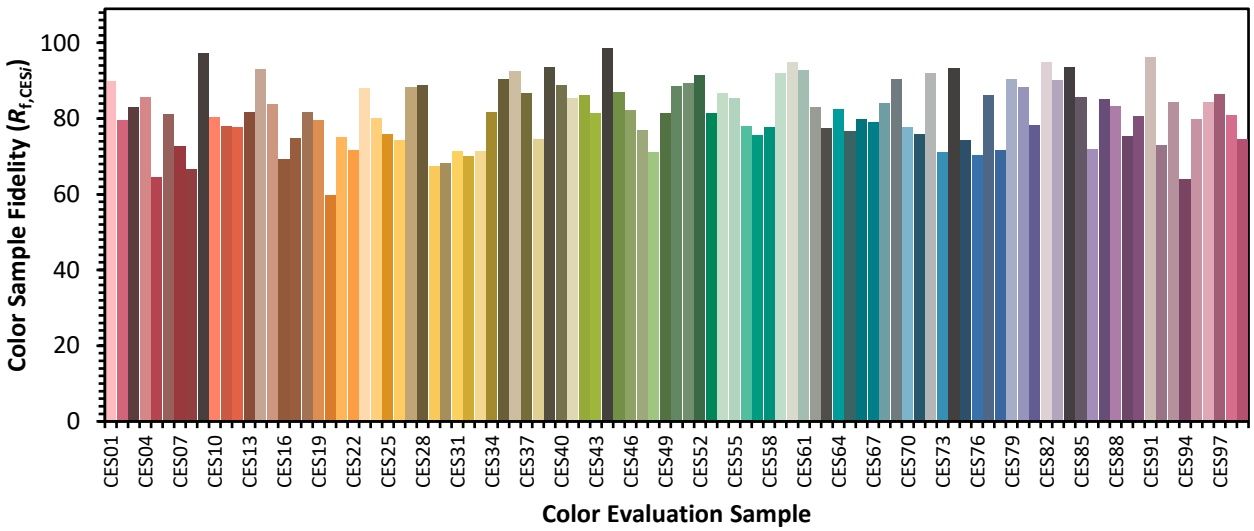
Individual Sample Fidelity Index ($R_{f,i}$)

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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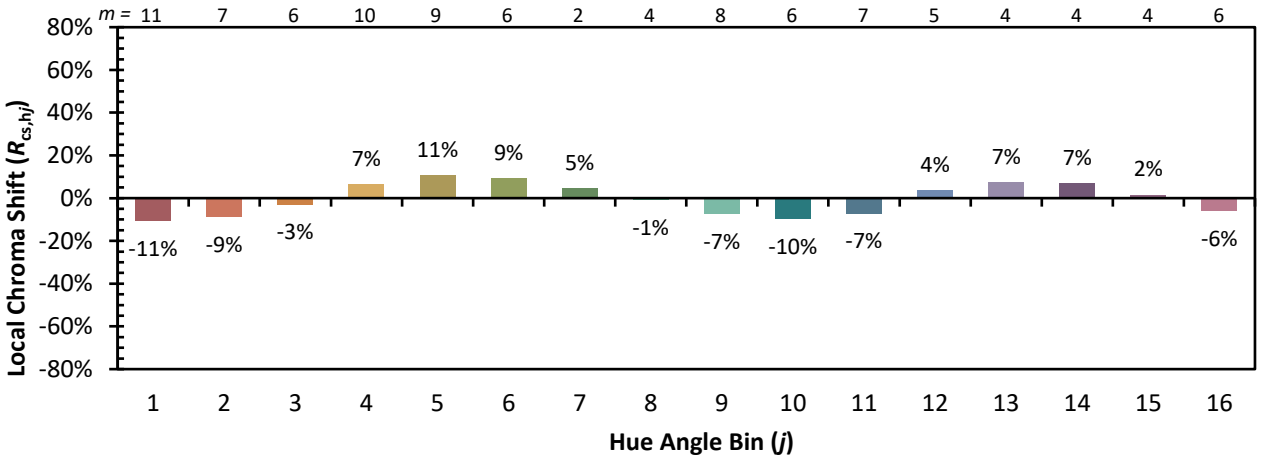
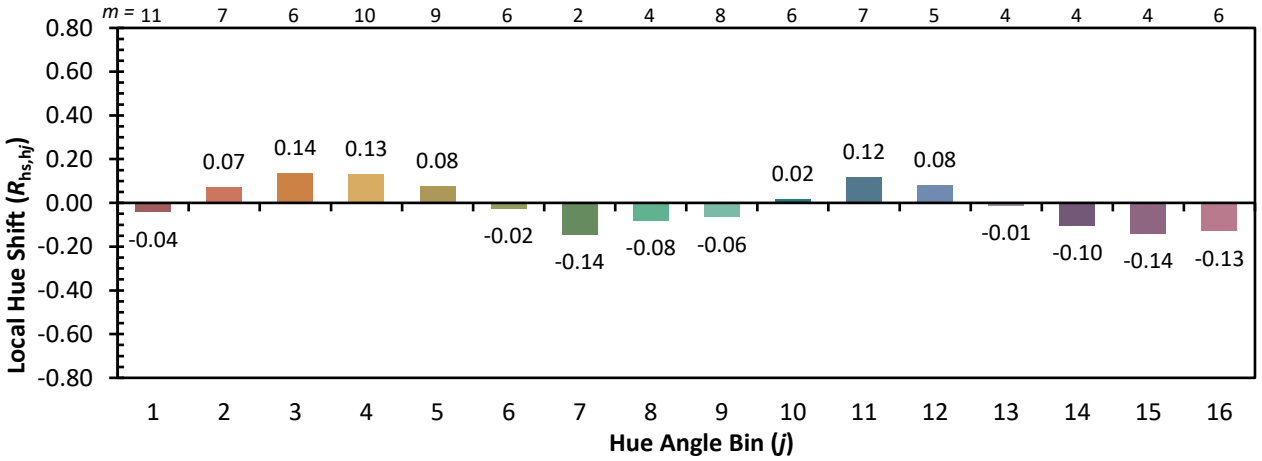
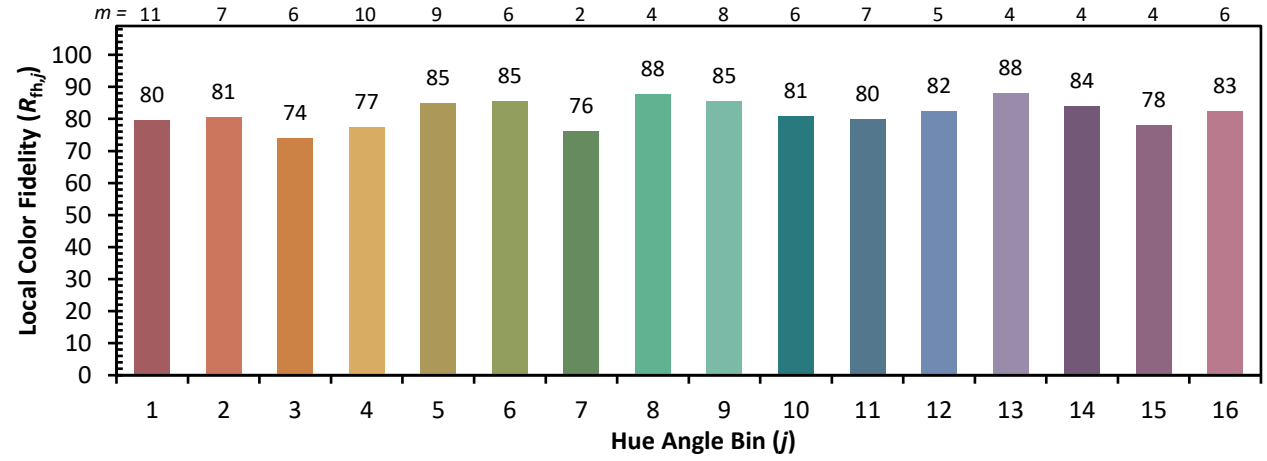
Color Rendition by Hue-Angle Bin







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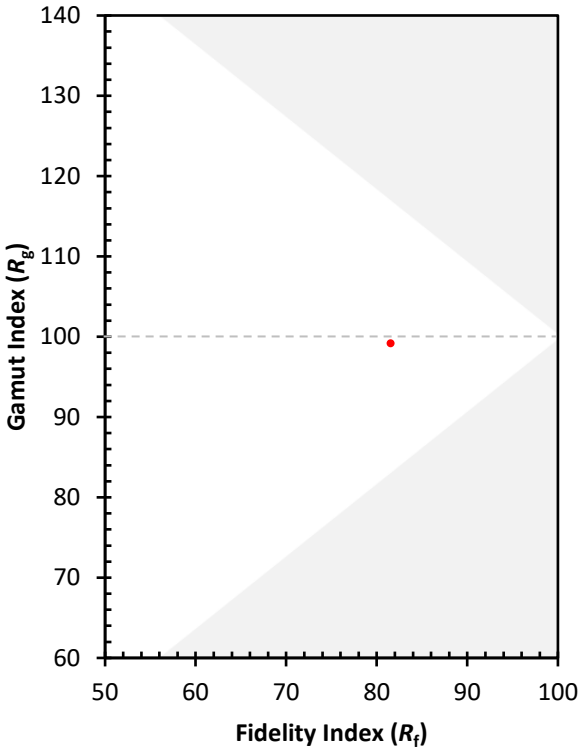
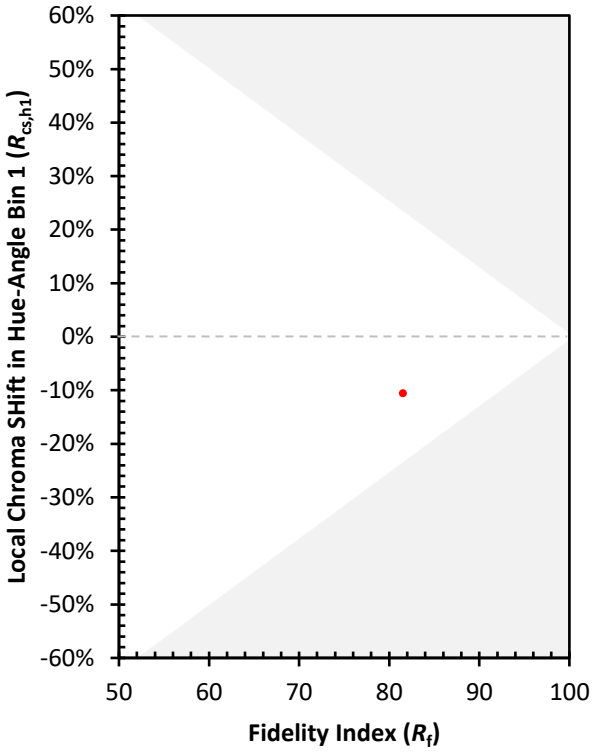
Measure Comparisons





(END OF REPORT)