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: P437250

Luminaire Tested: **ISC-SA1B-830-U-SL3-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:	P437250
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-17)
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-SL3-HSS
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2306 lumens
Efficiency:	N/A
Efficacy:	90.8 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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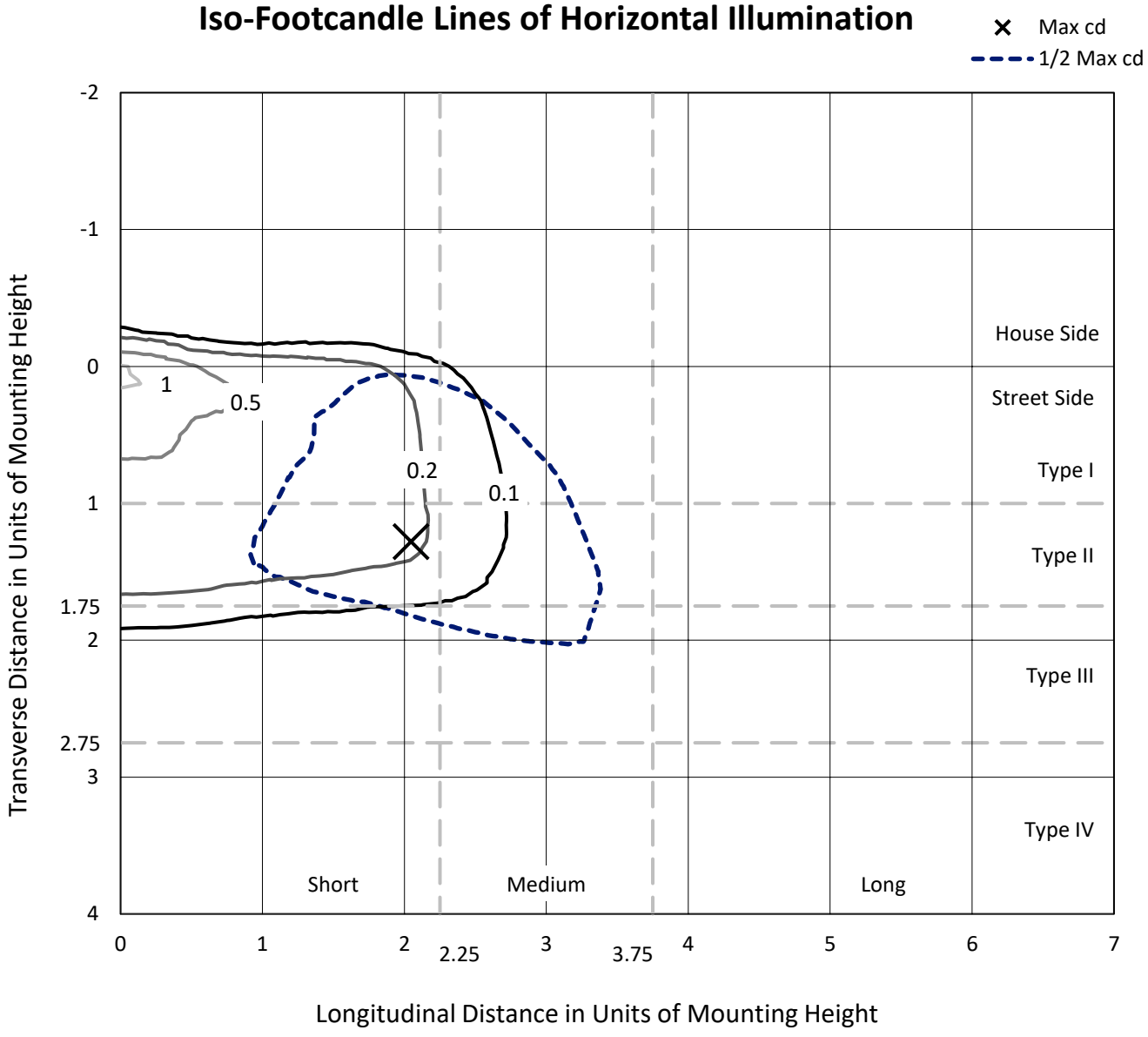
Scaled Data Report

REPORT NUMBER: P437250
CATALOG NUMBER: ISC-SA1B-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Short - N/A

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REPORT NUMBER: P437250
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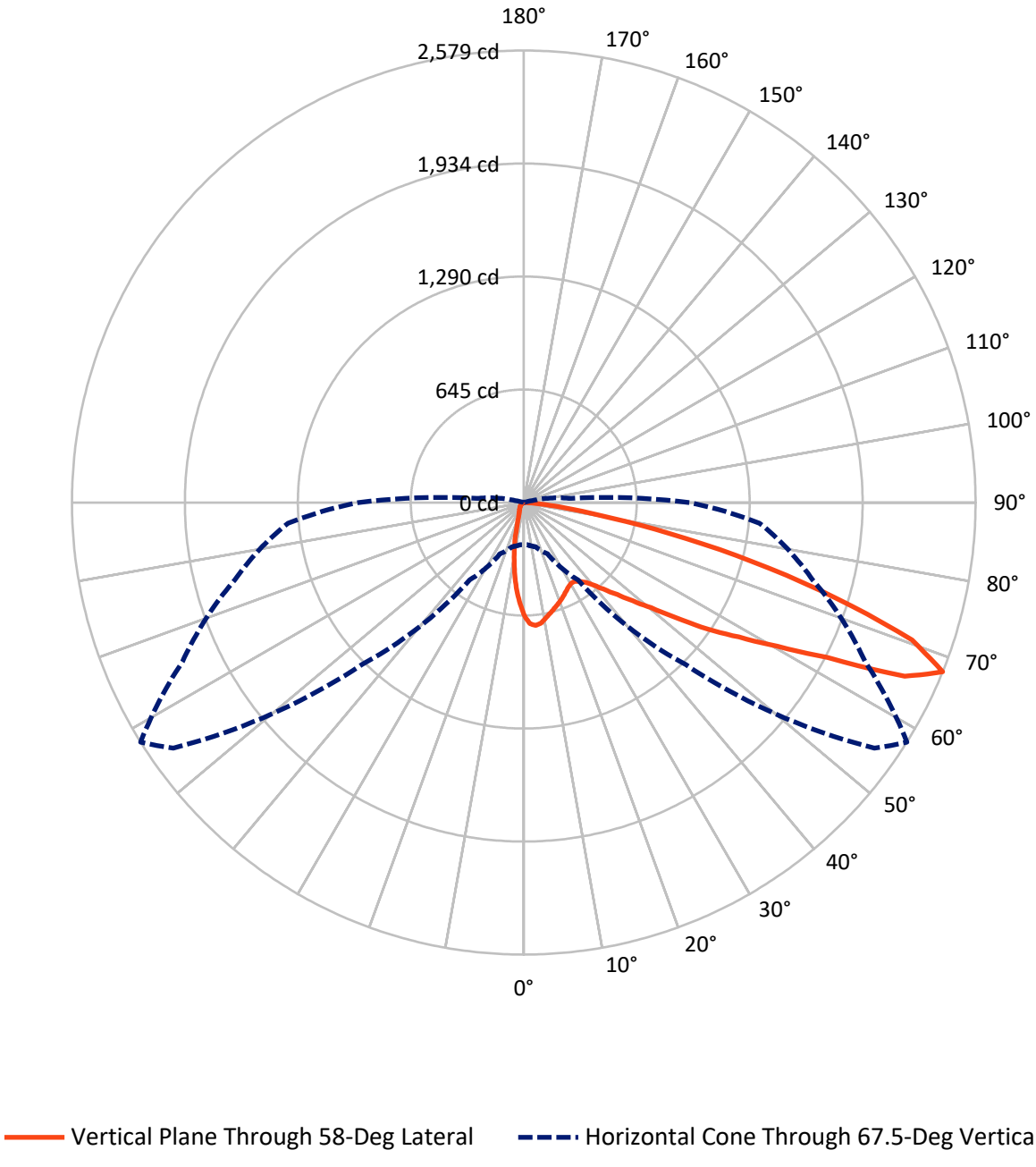
Luminous Intensity Polar Plot



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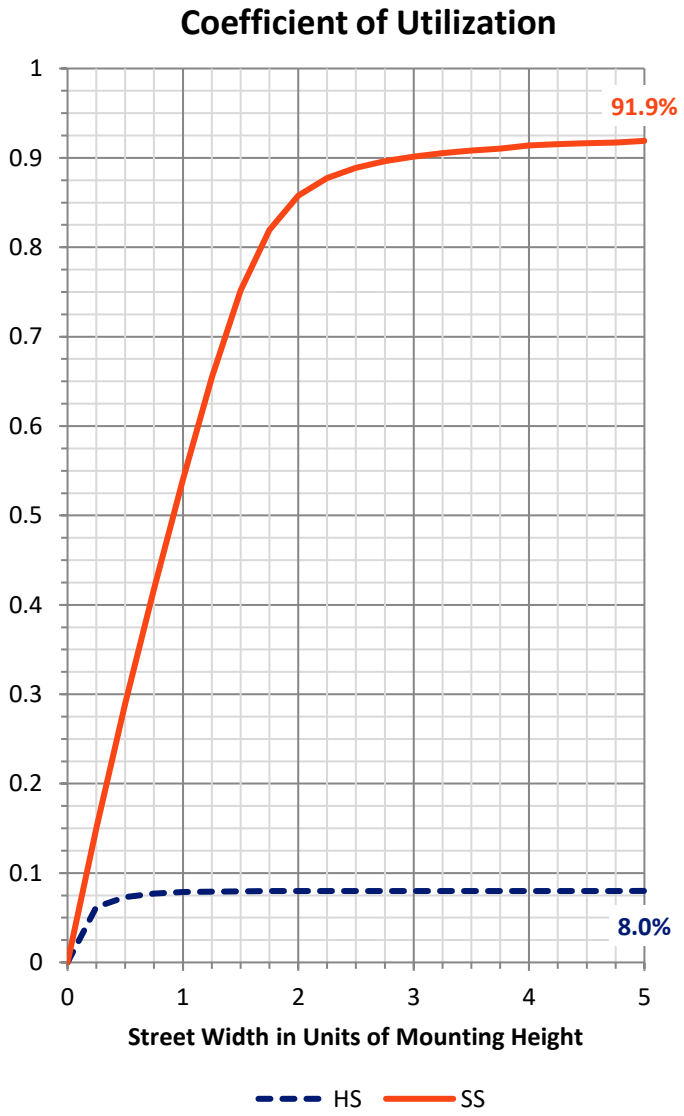
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	185.9	0.0	185.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	2120.1	0.0	2120.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	2306.0	0.0	2306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	2.3
10°-20°	109.5	4.8
20°-30°	148.2	6.4
30°-40°	203.9	8.8
40°-50°	319.2	13.8
50°-60°	537.7	23.3
60°-70°	638.1	27.7
70°-80°	277.1	12.0
80°-90°	20.4	0.9
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°	2306.0	100.0
0°-180°	2306.0	100.0



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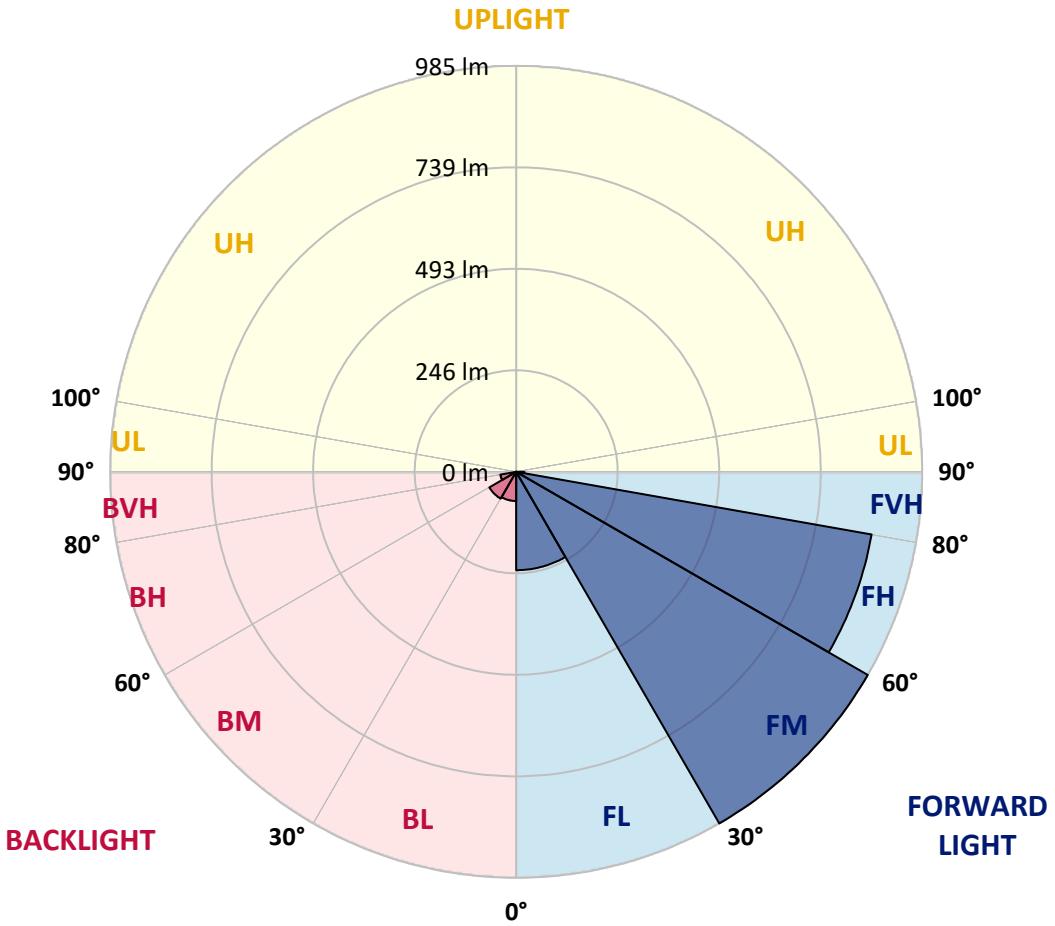
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	238.8	10.4			
FM	(30°-60°)	985.5	42.7			
FH	(60°-80°)	876.0	38.0			G1/1800
FVH	(80°-90°)	19.7	0.9			G1/100
BL	(0°-30°)	71.0	3.1	B0/110		
BM	(30°-60°)	75.2	3.3	B0/220		
BH	(60°-80°)	39.1	1.7	B0/110		G0/110
BVH	(80°-90°)	0.6	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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CATALOG NUMBER: ISC-SA1B-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	649.3	649.3	649.3	649.3	649.3	649.3	649.3	*649.3*	649.3	649.3	649.3
2.5°	724.7	720.7	718.7	717.8	710.8	704.8	692.9	*691.9*	684.0	669.1	654.2
5°	708.8	711.8	712.8	715.8	714.8	714.8	706.8	*704.8*	693.9	673.1	644.3
7.5°	674.1	673.1	675.1	683.0	687.0	694.9	693.9	*695.9*	690.9	668.1	627.4
10°	623.4	625.4	631.4	638.3	649.3	663.2	672.1	*674.1*	678.0	659.2	611.5
12.5°	576.8	579.8	583.7	597.6	609.5	631.4	648.3	*652.2*	660.2	650.2	597.6
15°	538.1	539.1	542.0	554.9	574.8	602.6	627.4	*633.4*	646.3	642.3	586.7
17.5°	507.3	508.3	512.3	523.2	539.1	571.8	605.6	*615.5*	634.4	637.3	574.8
20°	490.4	490.4	490.4	497.4	513.2	544.0	583.7	*597.6*	624.4	629.4	564.9
22.5°	485.5	485.5	483.5	485.5	495.4	521.2	561.9	*578.8*	612.5	626.4	553.0
25°	492.4	489.4	489.4	484.5	485.5	502.3	542.0	*560.9*	605.6	624.4	547.0
27.5°	505.3	504.3	500.3	496.4	490.4	494.4	525.2	*544.0*	598.6	627.4	542.0
30°	520.2	520.2	518.2	516.2	506.3	498.4	517.2	*534.1*	595.6	632.4	539.1
32.5°	537.1	536.1	541.0	543.0	531.1	516.2	519.2	*535.1*	597.6	647.3	541.0
35°	556.9	556.9	565.9	577.8	567.8	545.0	538.1	*552.0*	607.6	663.2	549.0
37.5°	578.8	579.8	595.6	612.5	605.6	585.7	573.8	*578.8*	628.4	692.9	566.9
40°	604.6	604.6	628.4	656.2	656.2	633.4	617.5	*621.5*	658.2	735.6	598.6
42.5°	632.4	635.4	669.1	702.9	712.8	691.9	675.1	*680.0*	705.8	791.2	645.3
45°	672.1	681.0	724.7	757.5	777.3	767.4	745.5	*749.5*	768.4	871.6	715.8
47.5°	742.6	750.5	788.2	821.0	845.8	850.8	840.9	*838.9*	846.8	965.9	805.1
50°	827.0	833.9	859.7	887.5	922.3	952.0	946.1	*943.1*	946.1	1069.2	914.3
52.5°	910.3	907.4	938.1	953.0	1001.7	1067.2	1093.0	*1093.0*	1077.1	1177.4	1021.5
55°	984.8	997.7	1030.5	1057.3	1098.0	1176.4	1263.8	*1274.7*	1220.1	1284.6	1110.9
57.5°	975.9	988.8	1049.3	1133.7	1253.8	1360.1	1445.4	*1447.4*	1368.0	1367.0	1221.1
60°	871.6	872.6	954.0	1082.1	1322.3	1625.1	1674.8	*1664.8*	1497.1	1482.2	1373.0
62.5°	613.5	609.5	714.8	877.6	1220.1	1770.1	2022.2	*1946.8*	1711.5	1662.8	1514.9
65°	357.4	355.4	396.1	524.2	924.2	1667.8	2377.6	*2389.5*	1993.4	1755.2	1485.1
67.5°	*240.2*	*242.2*	*261.1*	*323.6*	*539.1*	*1308.4*	*2443.1*	*2579.1*	*2150.3*	*1707.5*	*1351.1*
70°	176.7	176.7	191.6	238.3	319.7	820.0	2134.4	*2351.8*	2181.1	1588.4	1130.7
72.5°	126.1	126.1	146.9	192.6	261.1	422.9	1586.4	*1864.4*	1841.5	1318.4	782.3
75°	80.4	82.4	105.2	157.8	238.3	271.0	1076.1	*1351.1*	1284.6	737.6	333.6
77.5°	30.8	34.7	56.6	116.2	208.5	225.4	613.5	*851.8*	678.0	258.1	89.3
80°	10.9	10.9	18.9	59.6	146.9	185.6	320.7	*422.9*	220.4	62.5	33.8
82.5°	2.0	2.0	6.9	24.8	72.5	129.1	186.6	*208.5*	86.4	20.8	19.9
85°	0.0	0.0	1.0	5.0	16.9	12.9	74.5	*70.5*	26.8	8.9	12.9
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	2.0	*2.0*	2.0	2.0	2.0
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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Scaled Data Report

REPORT NUMBER: P437250
CATALOG NUMBER: ISC-SA1B-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3	649.3
2.5°	642.3	634.4	611.5	595.6	573.8	552.0	538.1	527.1	522.2	515.2	518.2
5°	626.4	608.5	566.9	529.1	493.4	455.7	427.9	403.1	395.1	381.2	379.2
7.5°	602.6	577.8	516.2	456.7	399.1	351.4	308.7	276.0	246.2	233.3	241.2
10°	579.8	546.0	465.6	386.2	309.7	243.2	192.6	152.9	130.0	120.1	122.1
12.5°	557.9	515.2	413.0	318.7	225.4	149.9	109.2	88.4	81.4	80.4	78.4
15°	539.1	486.4	366.3	247.2	149.9	94.3	77.4	72.5	71.5	71.5	71.5
17.5°	518.2	456.7	315.7	181.7	98.3	73.5	68.5	67.5	66.5	66.5	66.5
20°	502.3	430.8	269.0	127.1	75.4	65.5	63.5	63.5	62.5	62.5	62.5
22.5°	485.5	404.0	223.4	93.3	64.5	60.6	58.6	57.6	57.6	56.6	56.6
25°	469.6	379.2	179.7	71.5	57.6	54.6	52.6	51.6	51.6	50.6	49.6
27.5°	459.6	359.4	141.0	60.6	51.6	49.6	47.7	45.7	43.7	42.7	42.7
30°	452.7	335.5	107.2	52.6	47.7	44.7	41.7	38.7	35.7	34.7	34.7
32.5°	442.8	316.7	82.4	47.7	42.7	39.7	35.7	32.8	29.8	27.8	27.8
35°	442.8	300.8	63.5	42.7	38.7	34.7	31.8	26.8	23.8	22.8	21.8
37.5°	449.7	282.9	52.6	39.7	35.7	31.8	27.8	22.8	19.9	18.9	18.9
40°	465.6	277.0	44.7	35.7	31.8	27.8	23.8	18.9	16.9	14.9	14.9
42.5°	498.4	279.0	39.7	33.8	28.8	24.8	19.9	15.9	13.9	12.9	12.9
45°	546.0	284.9	36.7	30.8	25.8	20.8	16.9	13.9	10.9	9.9	9.9
47.5°	612.5	303.8	32.8	27.8	22.8	17.9	13.9	10.9	8.9	7.9	7.9
50°	691.9	336.5	30.8	24.8	20.8	14.9	10.9	7.9	6.0	6.0	6.0
52.5°	785.3	369.3	27.8	22.8	17.9	12.9	8.9	6.0	5.0	4.0	4.0
55°	863.7	398.1	24.8	20.8	14.9	9.9	6.9	5.0	4.0	3.0	3.0
57.5°	965.9	439.8	20.8	17.9	11.9	7.9	5.0	4.0	2.0	2.0	2.0
60°	1102.9	489.4	17.9	14.9	8.9	6.0	4.0	2.0	2.0	1.0	1.0
62.5°	1161.5	449.7	15.9	11.9	6.9	4.0	3.0	2.0	1.0	1.0	1.0
65°	1097.0	367.3	12.9	8.9	5.0	3.0	2.0	1.0	1.0	0.0	0.0
67.5°	*946.1*	*271.0*	*10.9*	*6.0*	*4.0*	*2.0*	*1.0*	*0.0*	*0.0*	*0.0*	*0.0*
70°	771.4	200.5	7.9	4.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	534.1	121.1	6.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
75°	207.5	47.7	5.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	58.6	16.9	4.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
80°	23.8	8.9	3.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	14.9	5.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
85°	9.9	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
87.5°	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	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

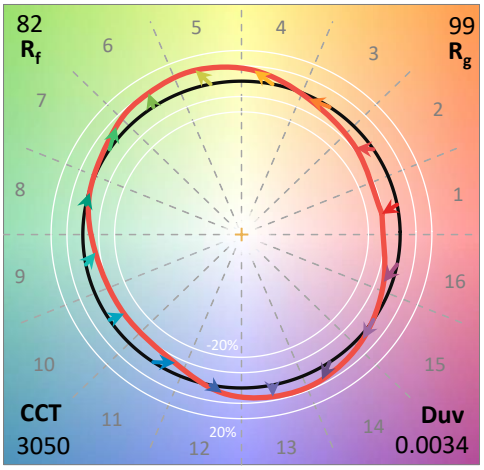
Test Information

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

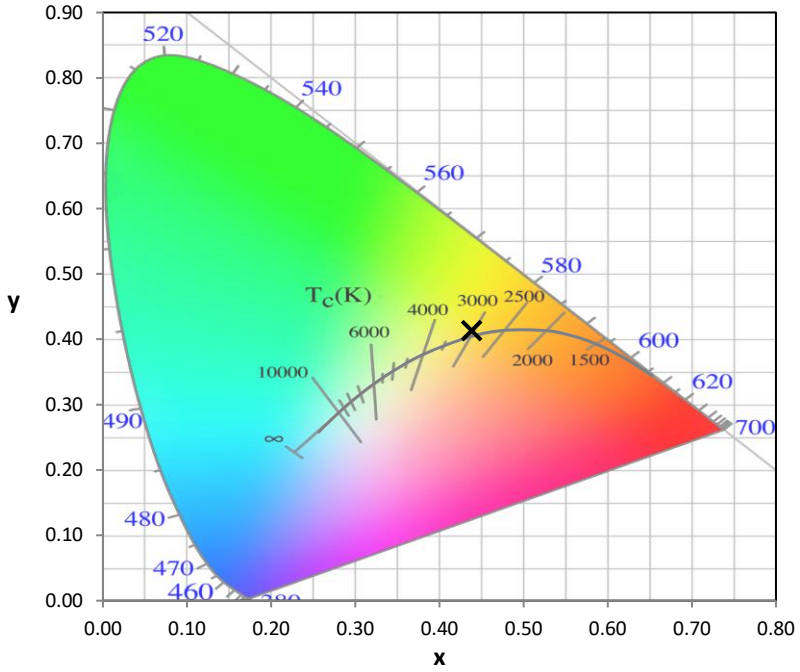
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

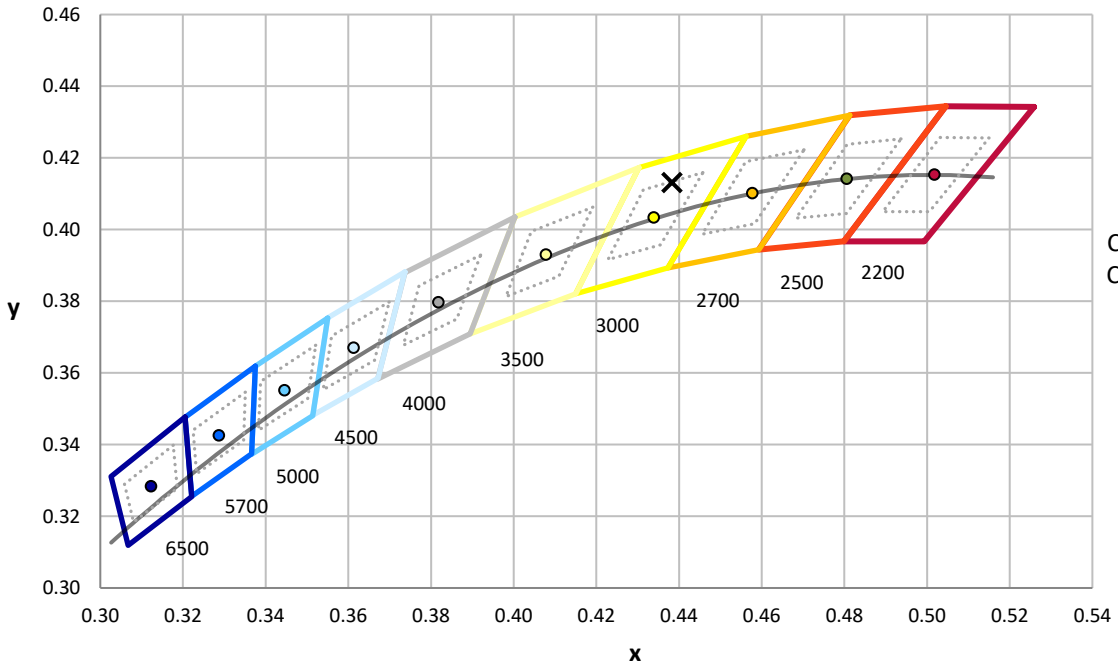
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

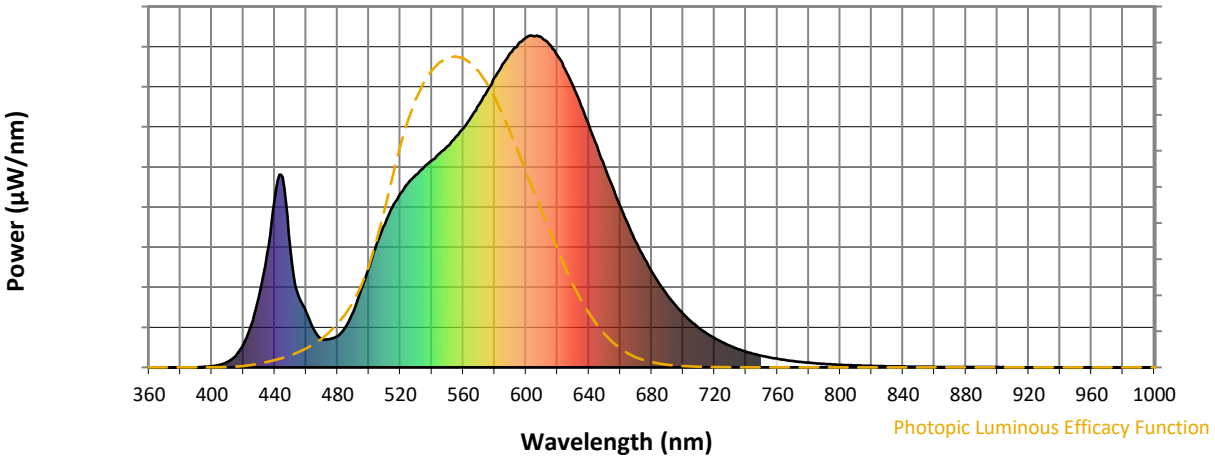


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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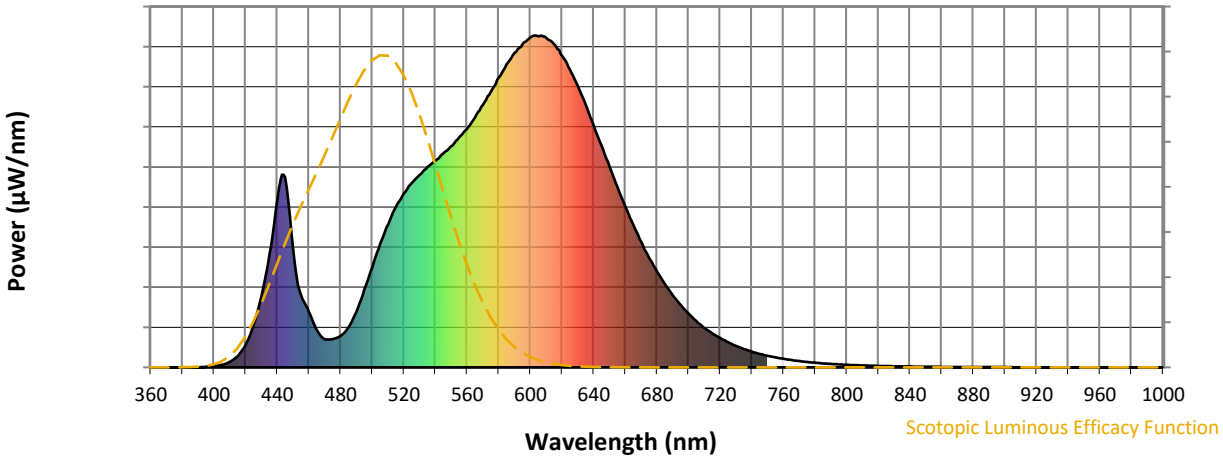
Scotopic Flux vs. Wavelength



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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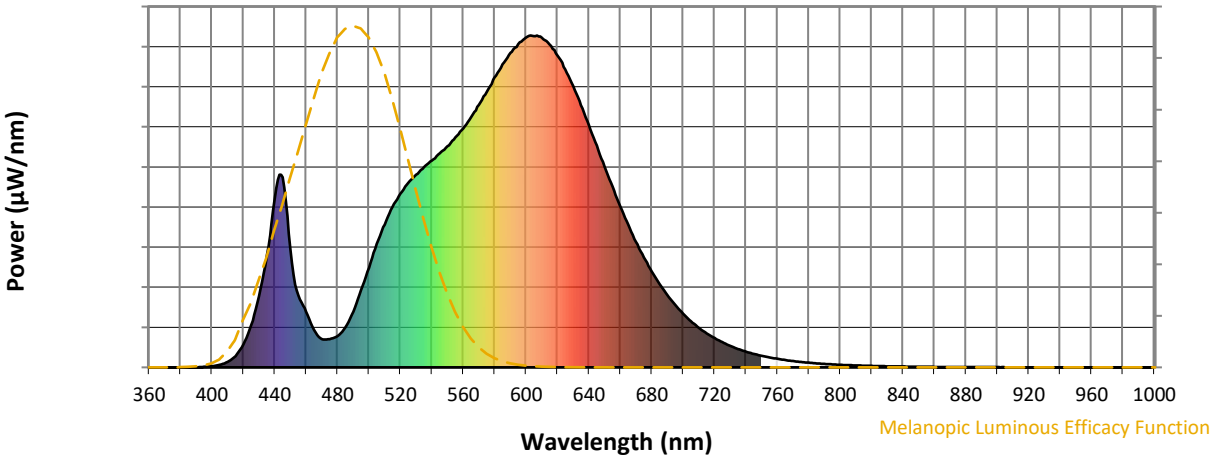
Melanopic Flux vs. Wavelength



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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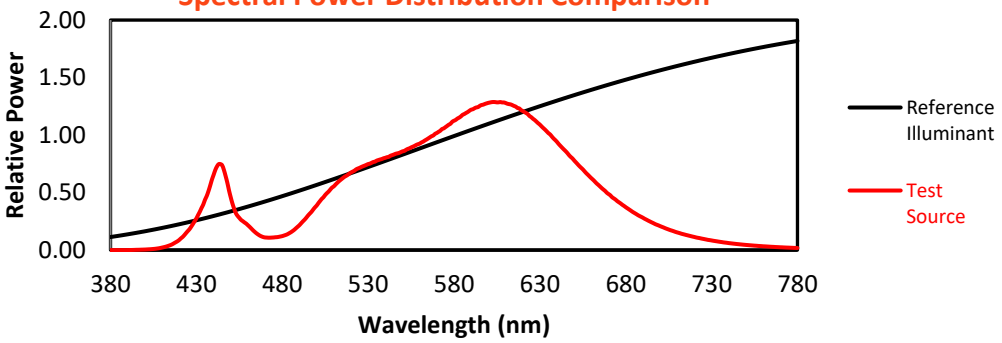
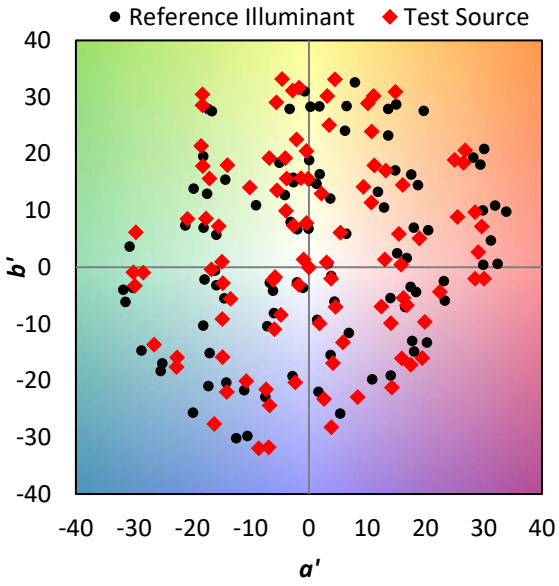
Summary

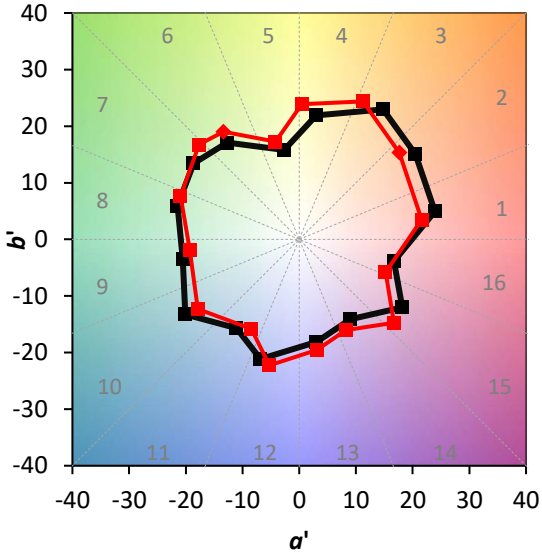
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

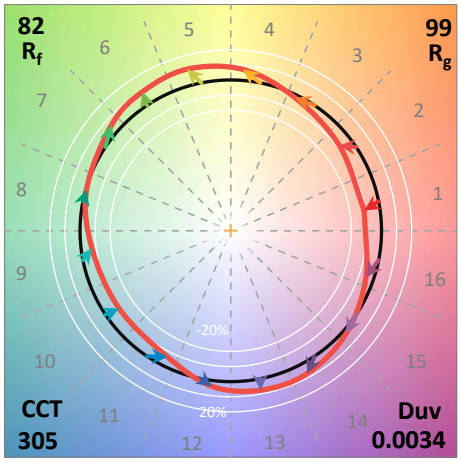
Spectral Power Distribution Comparison

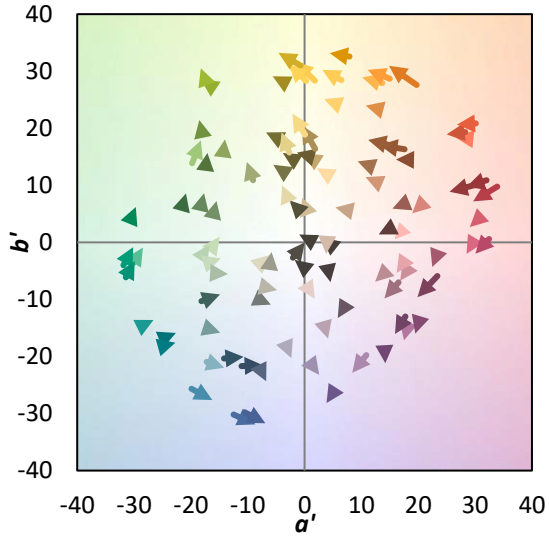


Color Vector Graphics









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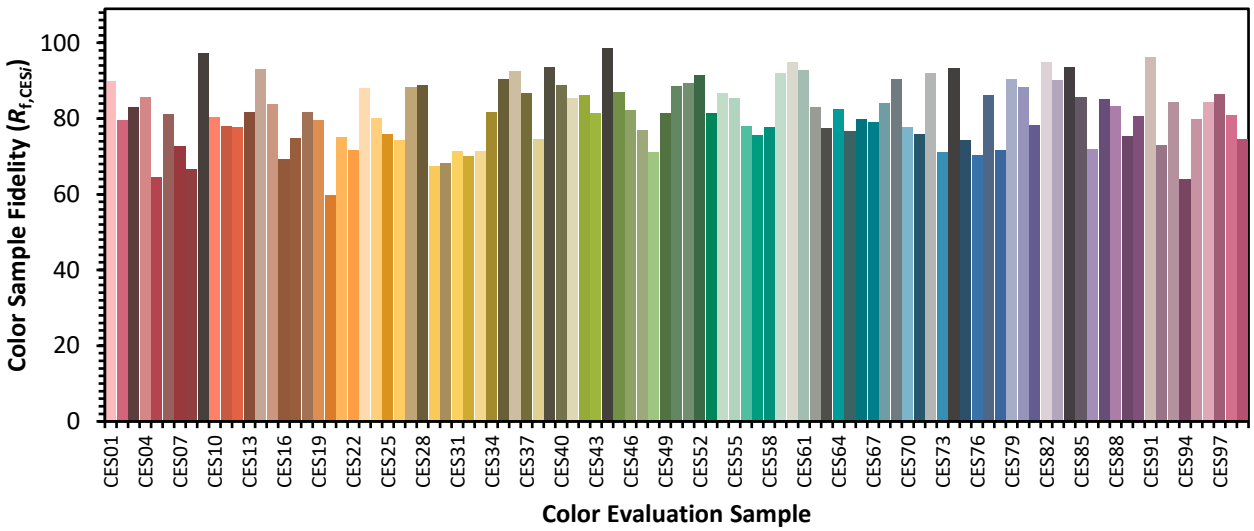
Individual Sample Fidelity Index ($R_{f,i}$)

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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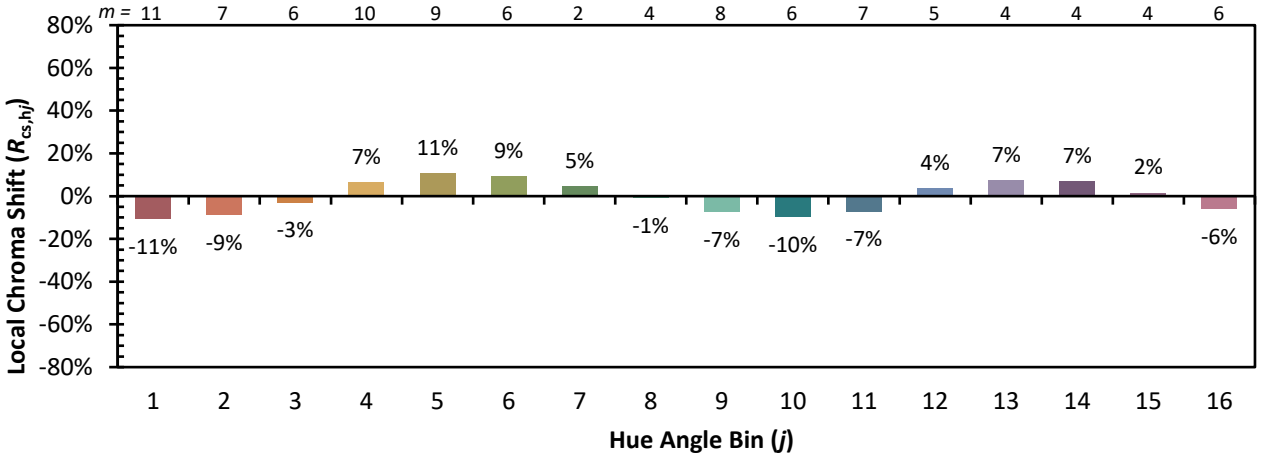
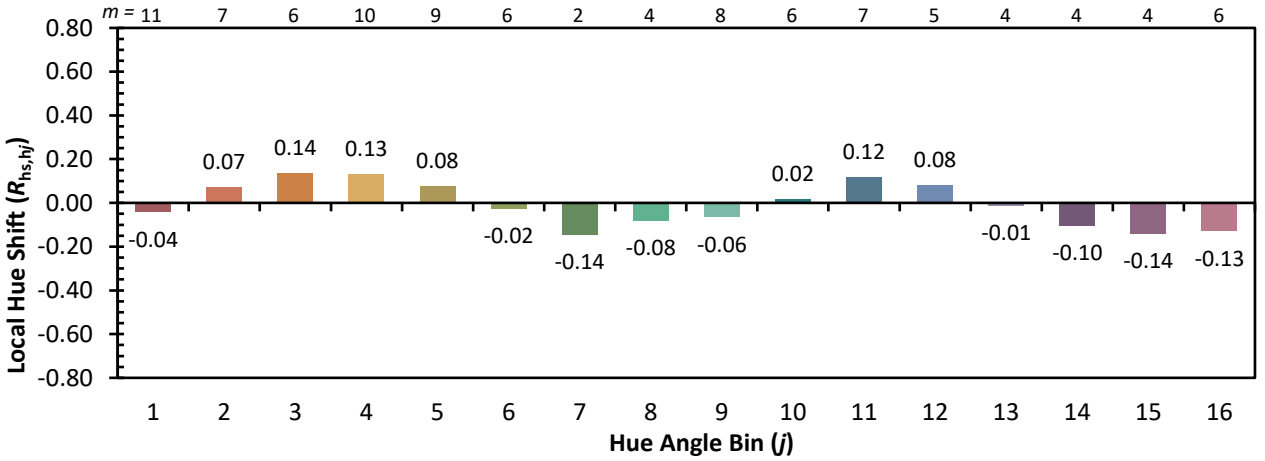
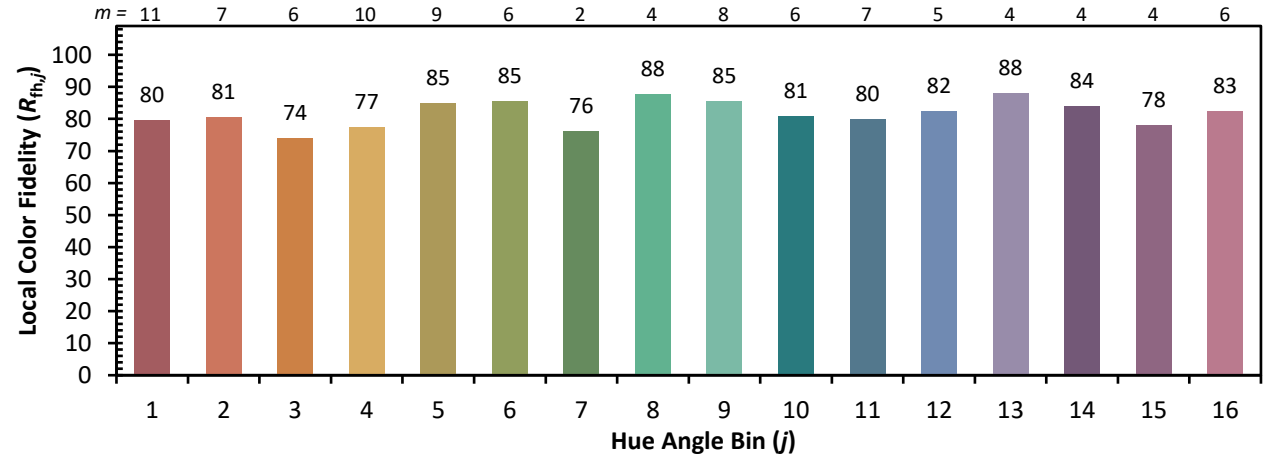
Color Rendition by Hue-Angle Bin







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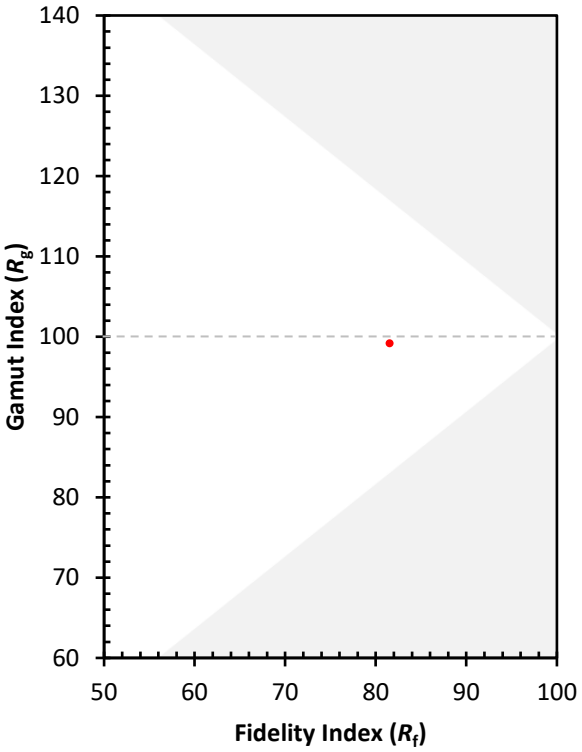
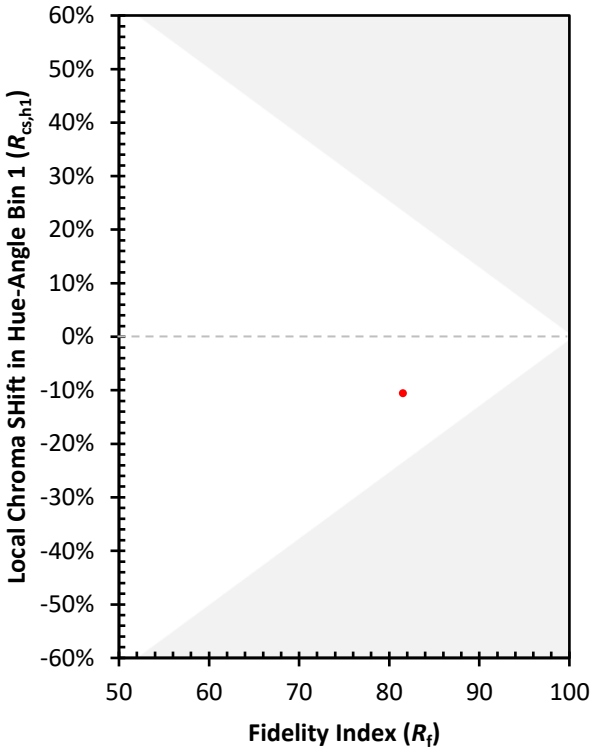
Measure Comparisons





(END OF REPORT)