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: P437248

Luminaire Tested: **ISS-SA1B-830-U-SL2-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:	P437248
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-15)
Test Lab:	INNOVATION CENTER
Issue Date:	12/9/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISS-SA1B-830-U-SL2-HSS
Description:	IMPACT ELITE LED QUARTER SPHERE 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:	2262 lumens
Efficiency:	N/A
Efficacy:	89.1 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: P437248
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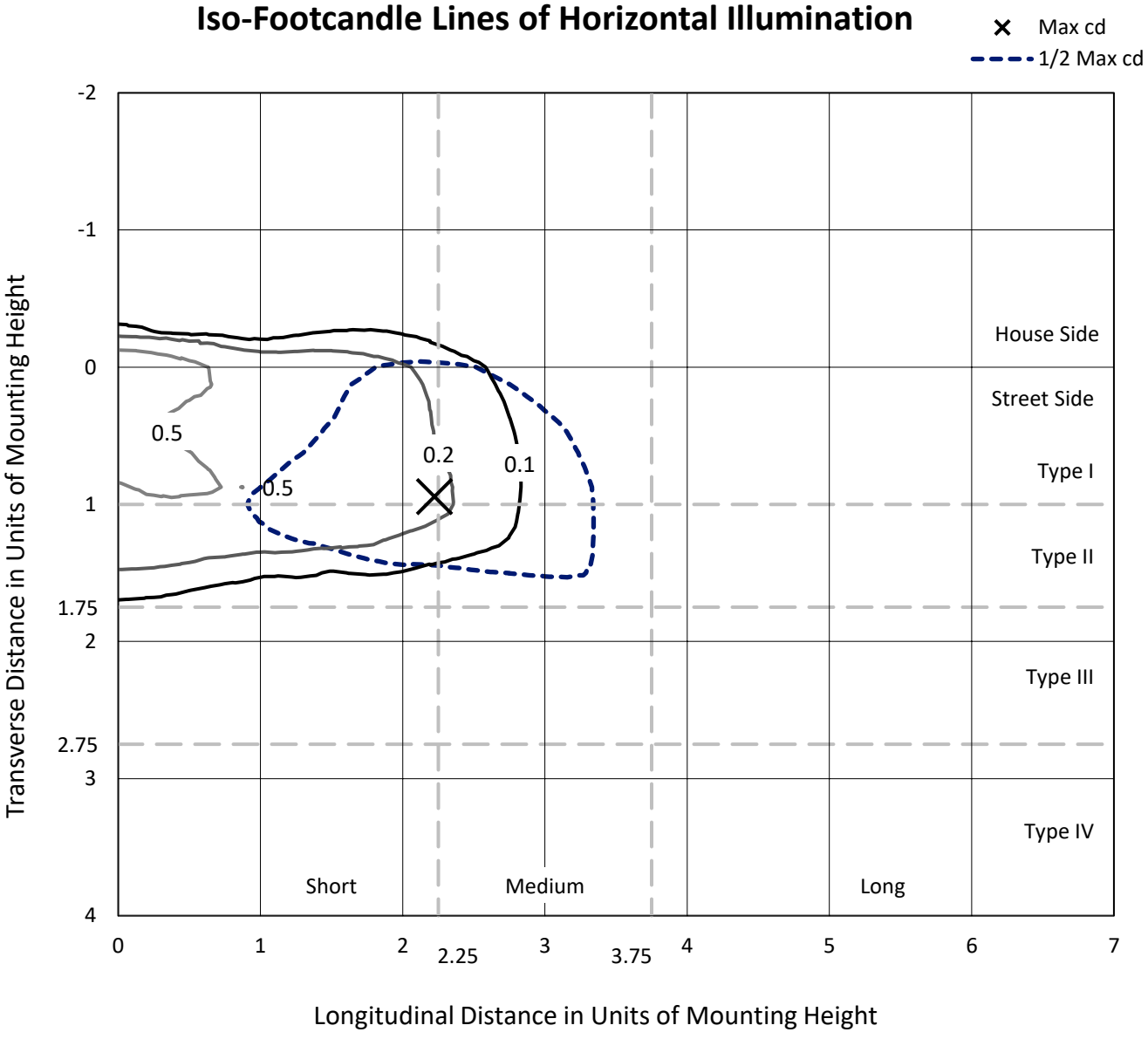
Iso-Footcandle Lines of Horizontal Illumination



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

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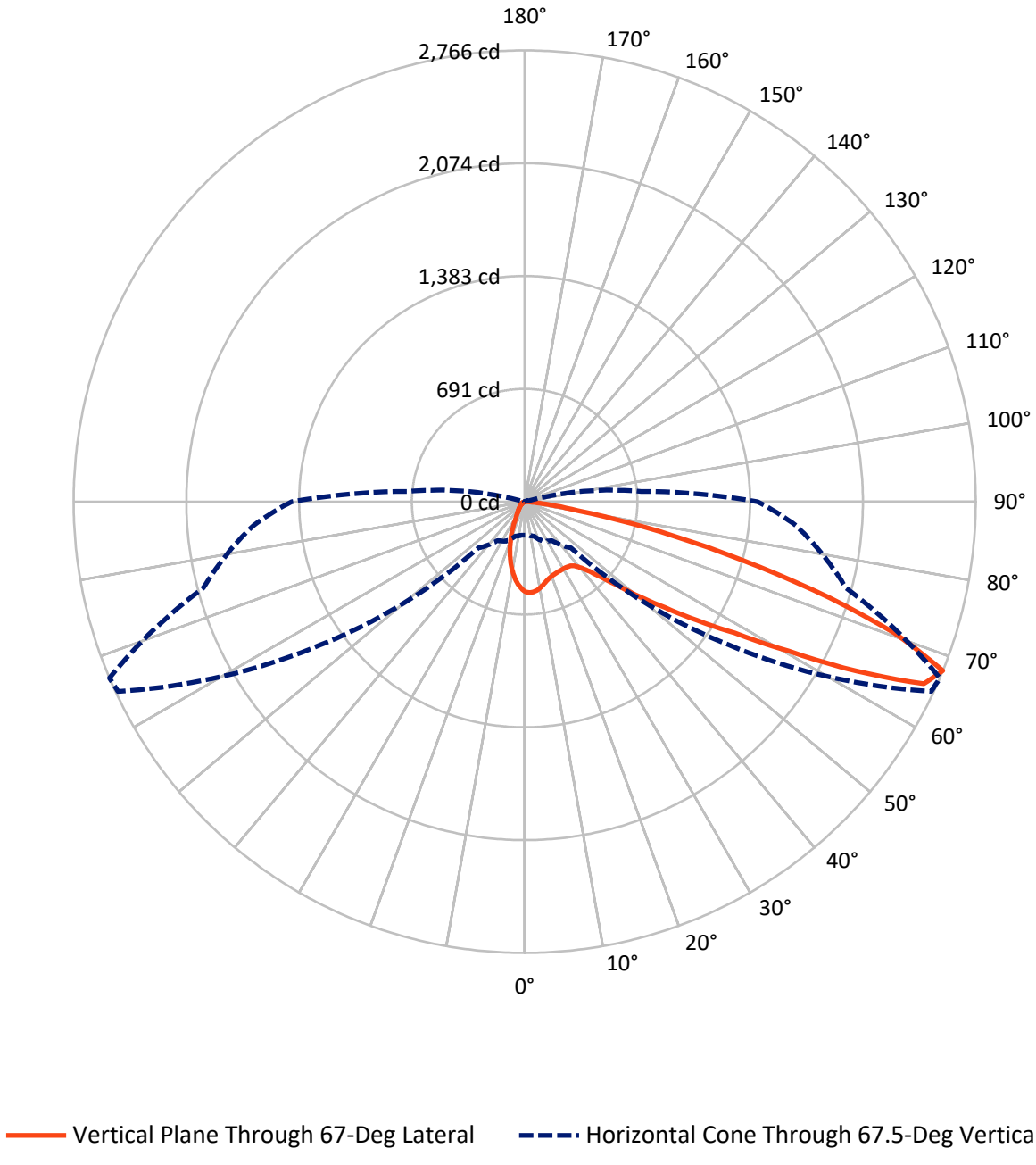
Luminous Intensity Polar Plot



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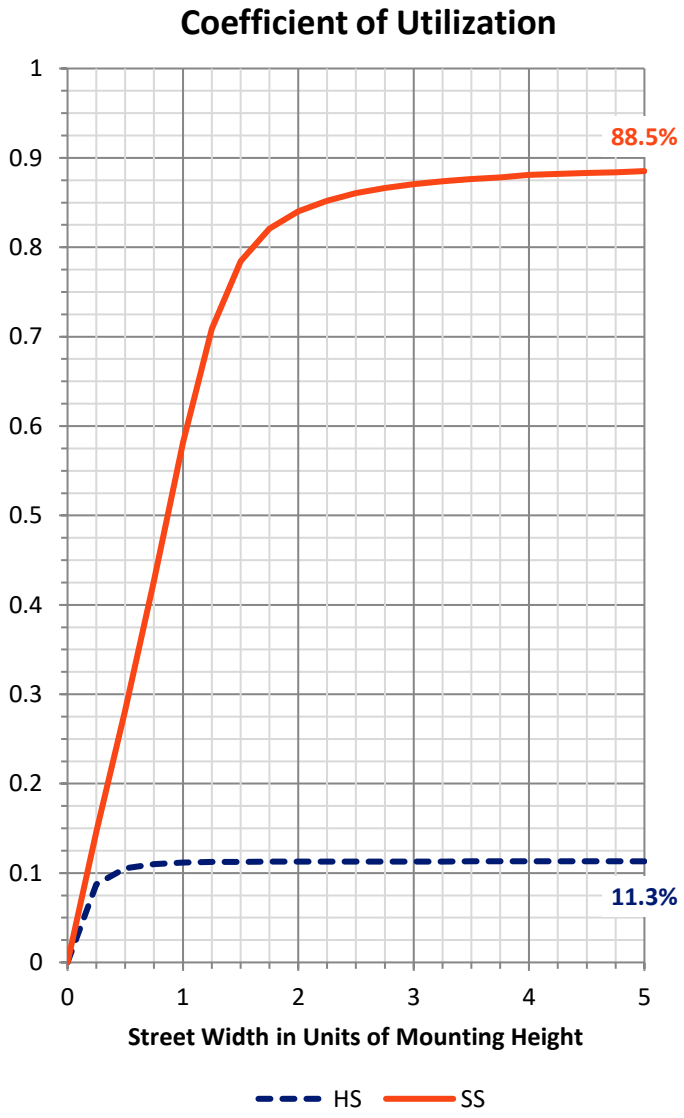
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	258.2	0.0	258.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	2003.9	0.0	2003.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	2262.0	0.0	2262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	2.0
10°-20°	97.5	4.3
20°-30°	139.7	6.2
30°-40°	205.6	9.1
40°-50°	339.6	15.0
50°-60°	546.3	24.1
60°-70°	595.6	26.3
70°-80°	271.1	12.0
80°-90°	21.8	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°	2262.0	100.0
0°-180°	2262.0	100.0



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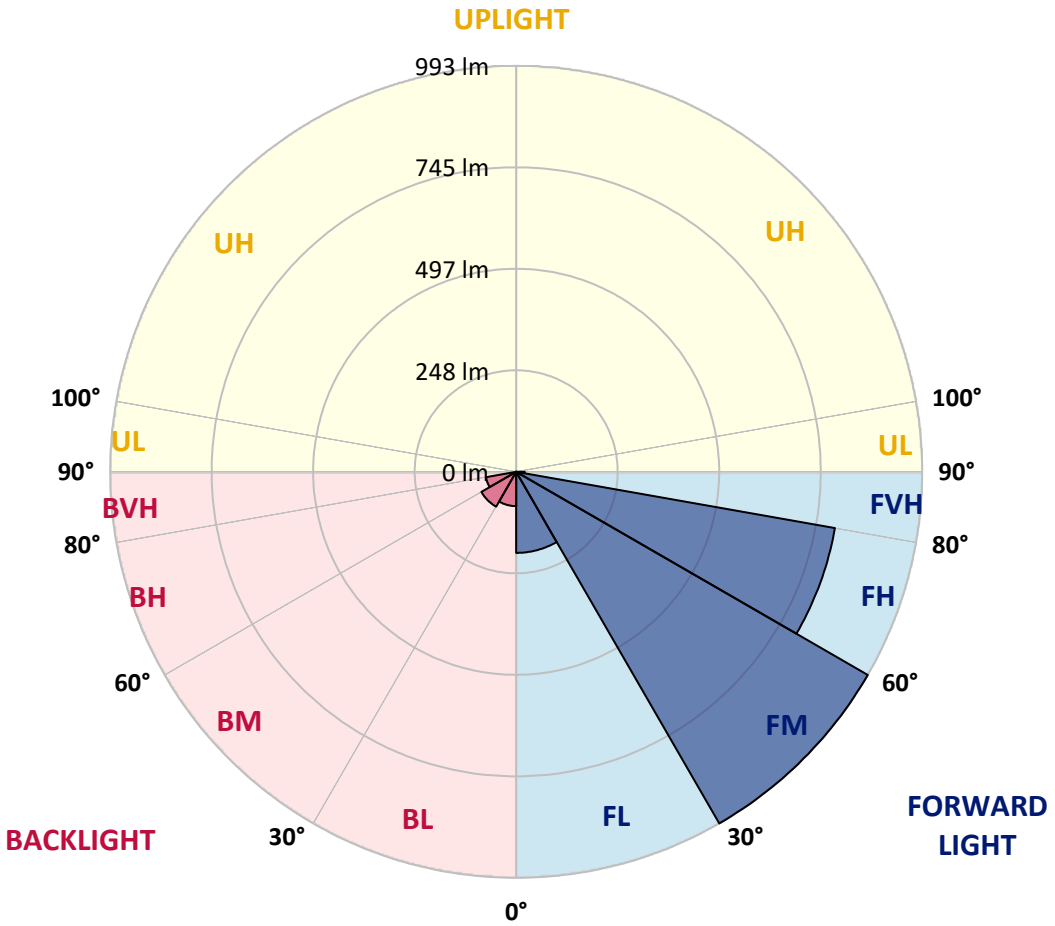
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	198.3	8.8			
FM	(30°-60°)	993.1	43.9			
FH	(60°-80°)	791.7	35.0			G1/1800
FVH	(80°-90°)	20.7	0.9			G1/100
BL	(0°-30°)	83.9	3.7	B0/110		
BM	(30°-60°)	98.3	4.3	B0/220		
BH	(60°-80°)	74.9	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°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	*551.9*	551.9	551.9
2.5°	545.0	550.0	551.0	552.9	552.9	555.9	556.9	558.9	*557.9*	558.9	556.9
5°	507.3	511.2	509.3	519.2	525.1	536.1	547.0	555.9	*555.9*	558.9	557.9
7.5°	469.6	473.5	473.5	481.5	491.4	507.3	525.1	546.0	*548.0*	557.9	554.9
10°	439.8	441.8	443.7	452.7	464.6	480.5	504.3	531.1	*535.1*	551.9	552.9
12.5°	415.9	418.9	421.9	430.8	441.8	457.6	480.5	511.2	*518.2*	542.0	551.0
15°	404.0	404.0	407.0	415.0	424.9	441.8	462.6	498.3	*504.3*	536.1	550.0
17.5°	398.1	399.1	401.1	405.0	413.0	426.9	449.7	484.4	*492.4*	531.1	550.0
20°	406.0	406.0	403.0	405.0	409.0	419.9	440.8	474.5	*484.4*	528.1	554.9
22.5°	422.9	422.9	417.9	415.0	412.0	415.9	434.8	470.5	*479.5*	528.1	557.9
25°	448.7	448.7	445.7	436.8	423.9	420.9	435.8	469.6	*476.5*	529.1	561.9
27.5°	479.5	480.5	477.5	467.6	447.7	430.8	438.8	467.6	*475.5*	528.1	563.9
30°	520.2	524.1	520.2	506.3	482.5	450.7	445.7	466.6	*474.5*	526.1	564.9
32.5°	560.9	563.9	567.8	558.9	525.1	481.5	460.6	470.5	*477.5*	527.1	562.9
35°	600.6	608.5	615.5	618.5	583.7	525.1	485.4	479.5	*482.5*	530.1	562.9
37.5°	643.3	651.2	666.1	681.0	652.2	573.8	522.2	499.3	*499.3*	540.0	568.8
40°	697.9	701.8	730.6	748.5	734.6	652.2	574.8	533.1	*532.1*	567.8	585.7
42.5°	750.5	761.4	799.1	825.9	817.0	744.5	638.3	592.6	*582.7*	612.5	616.5
45°	826.9	843.8	873.6	913.3	922.2	847.8	736.6	669.1	*659.2*	679.0	668.1
47.5°	898.4	910.3	939.1	989.7	1041.4	980.8	847.8	776.3	*767.4*	775.3	757.4
50°	921.2	927.2	959.9	1022.5	1144.6	1171.4	1000.6	915.3	*914.3*	908.3	878.5
52.5°	881.5	882.5	920.2	996.7	1187.3	1379.9	1217.1	1095.0	*1078.1*	1065.2	1025.5
55°	760.4	769.3	801.1	896.4	1145.6	1500.0	1563.5	1312.4	*1284.6*	1237.9	1188.3
57.5°	594.6	590.7	616.5	703.8	1017.5	1547.6	1905.0	1588.3	*1518.8*	1378.9	1312.4
60°	432.8	422.9	439.8	489.4	739.6	1454.3	2102.6	1977.5	*1858.3*	1530.8	1465.2
62.5°	321.6	321.6	339.5	362.3	453.7	1134.7	2133.3	2423.2	*2289.2*	1723.3	1627.0
65°	257.1	256.1	271.0	305.8	323.6	703.8	1978.5	2740.9	*2690.2*	1923.9	1733.3
67.5°	*205.5*	*205.5*	*218.4*	*266.0*	*290.9*	*400.1*	*1530.8*	*2750.8*	*2765.7*	*2039.0*	*1668.7*
70°	144.9	149.9	165.8	222.4	280.9	305.8	928.2	2362.6	*2401.4*	2004.3	1497.0
72.5°	81.4	85.4	114.2	164.8	270.0	293.8	519.2	1784.9	*1850.4*	1679.7	1221.0
75°	38.7	42.7	66.5	113.2	225.3	279.9	315.7	1265.7	*1256.8*	1091.0	758.4
77.5°	16.9	18.9	29.8	65.5	159.8	261.1	231.3	791.2	*755.5*	512.2	318.7
80°	6.0	6.9	12.9	37.7	90.3	213.4	192.6	365.3	*330.6*	142.0	83.4
82.5°	1.0	1.0	5.0	17.9	40.7	119.1	158.8	174.7	*150.9*	35.7	35.7
85°	0.0	0.0	1.0	6.0	9.9	10.9	71.5	70.5	*58.6*	11.9	17.9
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	2.0	2.0	*2.0*	2.0	3.0
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: P437248
CATALOG NUMBER: ISS-SA1B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9
2.5°	551.9	551.0	541.0	532.1	520.2	510.3	501.3	492.4	488.4	489.4	491.4
5°	552.9	547.0	526.1	503.3	479.5	455.7	432.8	418.9	408.0	404.0	408.0
7.5°	548.0	538.0	506.3	469.6	431.8	390.1	355.4	329.6	310.7	298.8	303.8
10°	544.0	529.1	482.5	426.9	373.3	318.7	269.0	232.3	206.5	191.6	188.6
12.5°	537.1	519.2	454.7	384.2	309.7	235.3	175.7	137.0	116.1	105.2	108.2
15°	535.1	507.3	426.9	334.5	242.2	158.8	106.2	84.4	75.4	73.5	73.5
17.5°	533.1	499.3	397.1	285.9	173.7	99.3	73.5	67.5	65.5	64.5	65.5
20°	531.1	488.4	367.3	233.3	117.1	71.5	63.5	60.6	58.6	58.6	57.6
22.5°	533.1	481.5	339.5	183.7	80.4	60.6	55.6	53.6	51.6	50.6	50.6
25°	531.1	472.5	305.8	135.0	62.5	53.6	49.6	45.7	43.7	42.7	41.7
27.5°	528.1	461.6	274.0	97.3	54.6	47.6	42.7	38.7	35.7	34.7	34.7
30°	525.1	447.7	237.3	71.5	49.6	42.7	36.7	32.8	29.8	27.8	27.8
32.5°	517.2	434.8	201.5	57.6	44.7	37.7	31.8	26.8	24.8	23.8	23.8
35°	512.2	419.9	163.8	49.6	40.7	32.8	26.8	22.8	20.8	19.9	19.9
37.5°	511.2	404.0	130.0	44.7	36.7	28.8	22.8	19.9	17.9	16.9	16.9
40°	515.2	396.1	100.3	40.7	31.8	24.8	19.9	16.9	14.9	13.9	13.9
42.5°	531.1	395.1	76.4	36.7	28.8	21.8	17.9	13.9	11.9	10.9	10.9
45°	566.8	401.1	60.6	33.8	24.8	18.9	14.9	11.9	9.9	8.9	8.9
47.5°	625.4	425.9	50.6	30.8	20.8	15.9	11.9	9.9	6.9	6.9	6.9
50°	720.7	478.5	44.7	26.8	17.9	12.9	9.9	6.9	5.0	5.0	5.0
52.5°	861.7	558.9	40.7	23.8	14.9	10.9	7.9	5.0	4.0	4.0	4.0
55°	1007.6	659.2	37.7	19.9	12.9	8.9	6.0	4.0	3.0	3.0	2.0
57.5°	1140.6	741.6	33.8	16.9	9.9	6.9	4.0	3.0	2.0	2.0	2.0
60°	1298.5	823.9	28.8	12.9	7.9	5.0	3.0	2.0	1.0	1.0	1.0
62.5°	1451.3	870.6	23.8	9.9	6.0	4.0	2.0	1.0	1.0	1.0	1.0
65°	1517.8	848.8	18.9	7.9	5.0	3.0	1.0	1.0	1.0	0.0	0.0
67.5°	*1428.5*	*717.7*	*14.9*	*6.0*	*4.0*	*2.0*	*1.0*	*1.0*	*0.0*	*0.0*	*0.0*
70°	1230.0	580.7	11.9	5.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0
72.5°	965.9	427.9	9.9	4.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
75°	587.7	215.4	8.9	3.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0
77.5°	199.5	67.5	6.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
80°	58.6	21.8	5.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	30.8	9.9	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	16.9	5.0	2.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0
87.5°	3.0	2.0	2.0	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

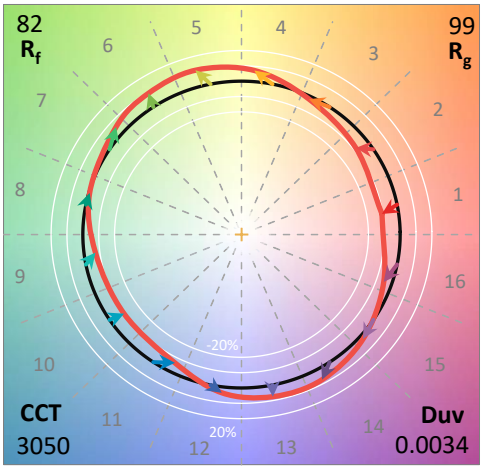
Test Information

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

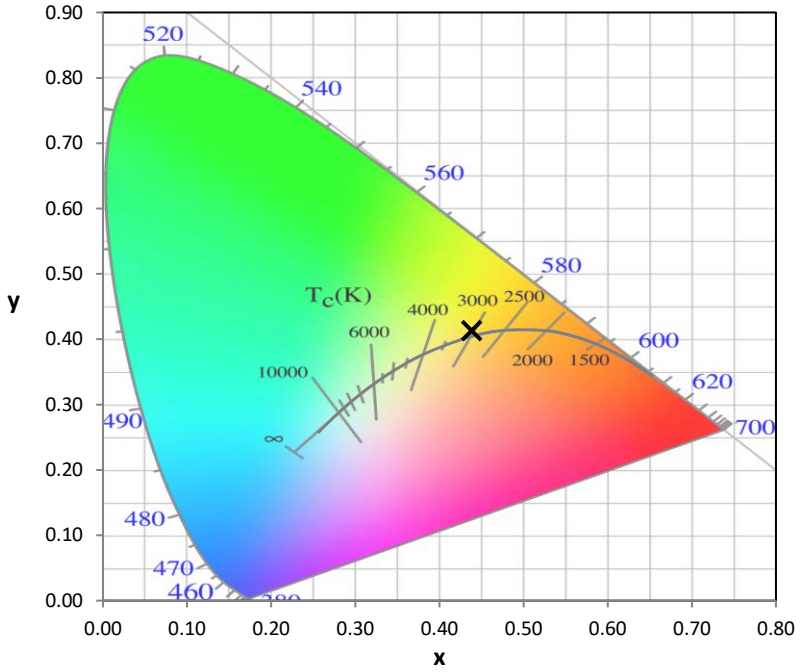
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

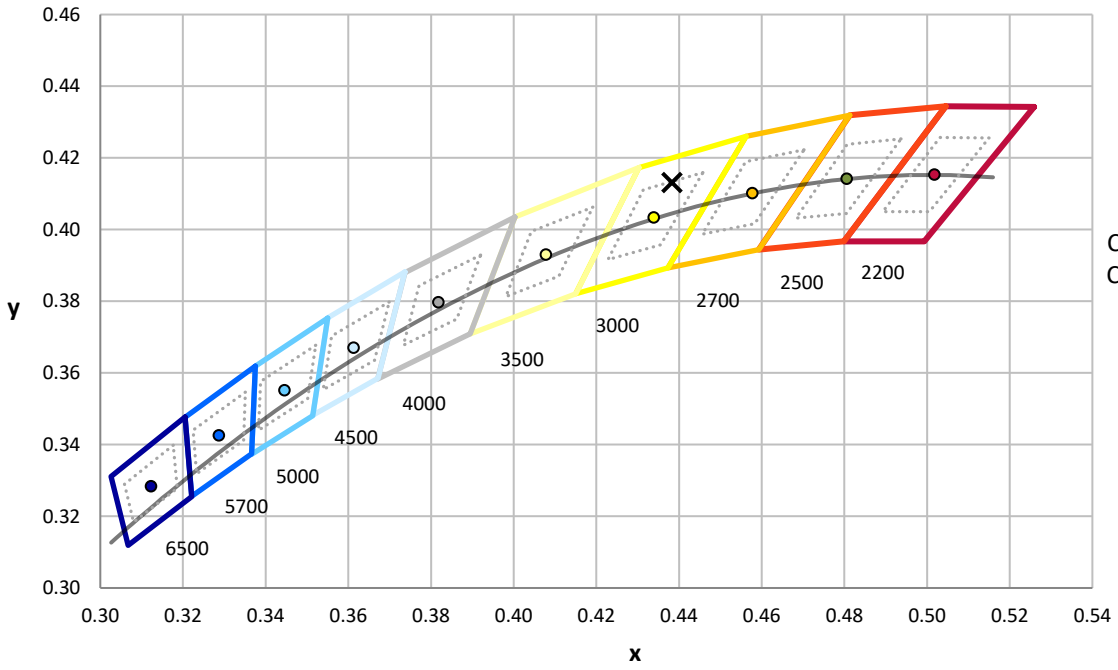
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

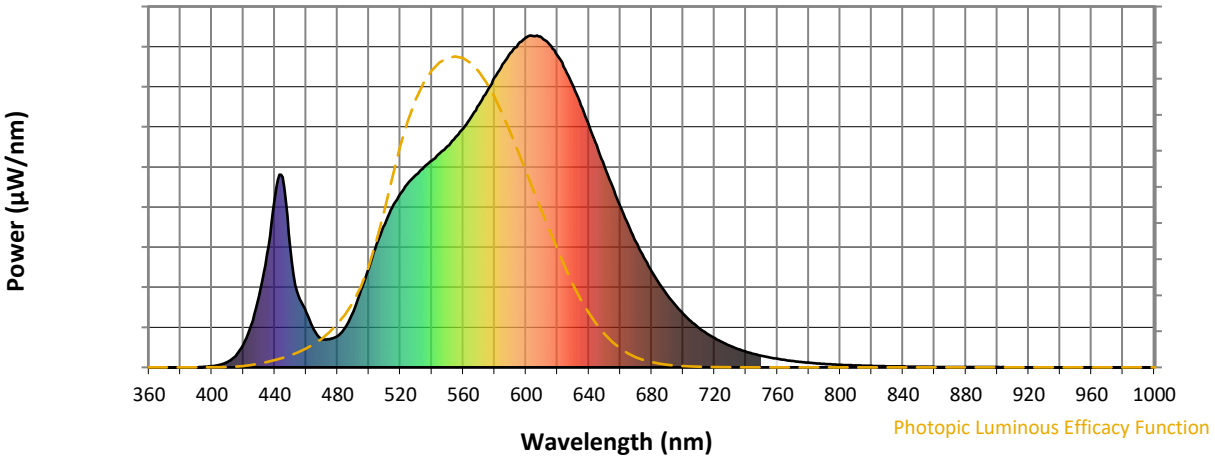


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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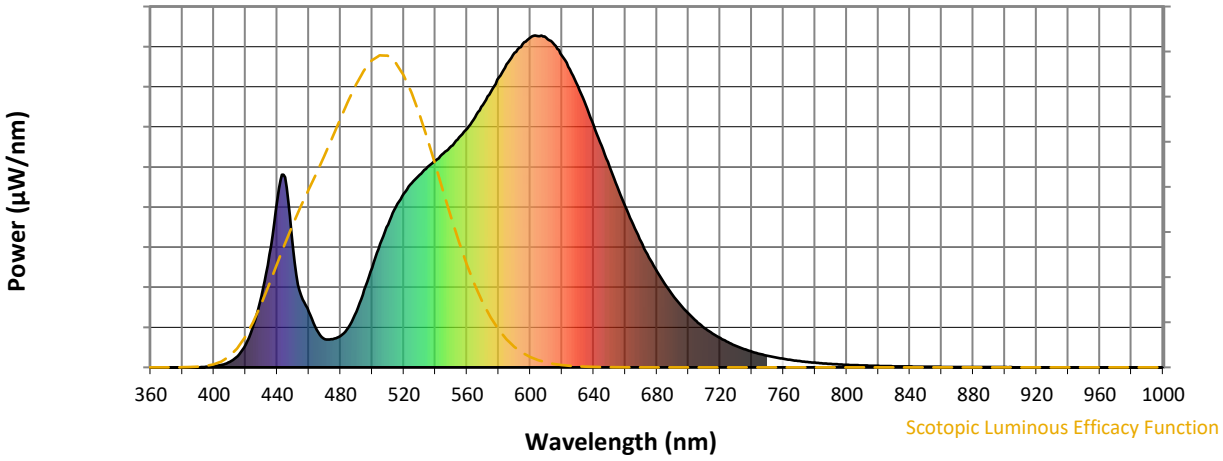
Scotopic Flux vs. Wavelength



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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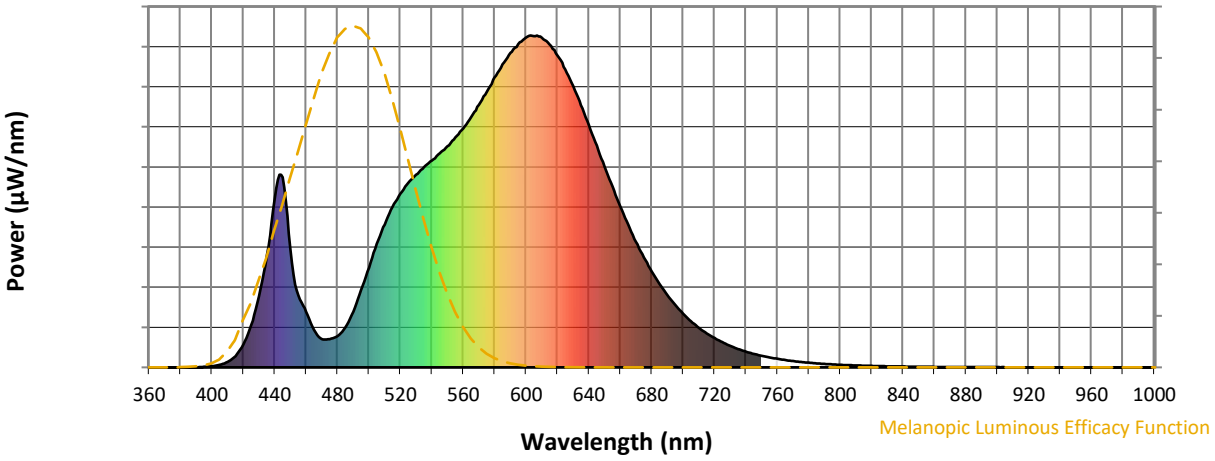
Melanopic Flux vs. Wavelength



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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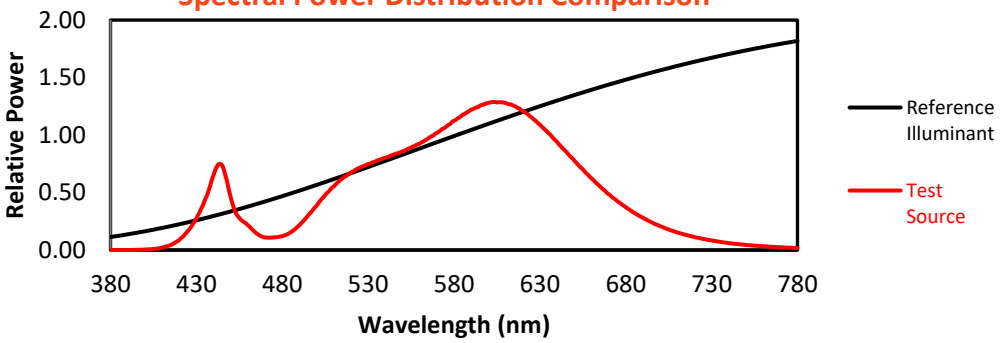
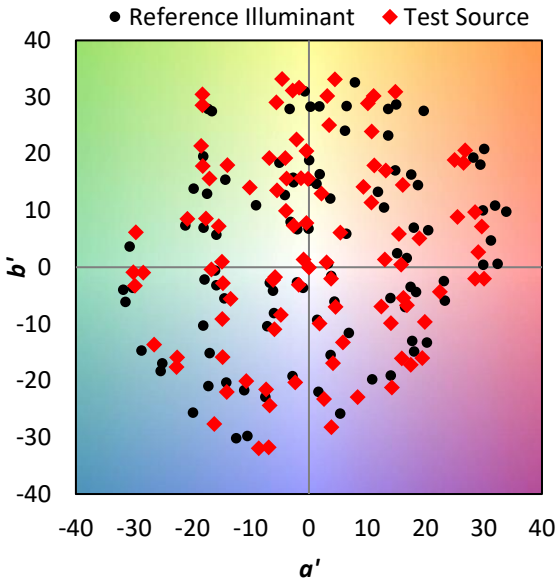
Summary

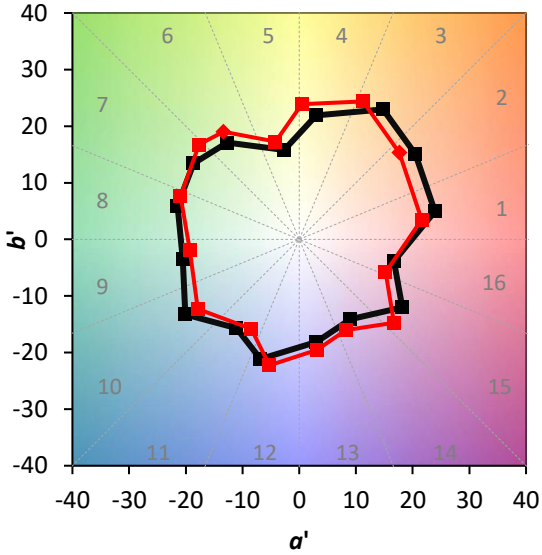
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

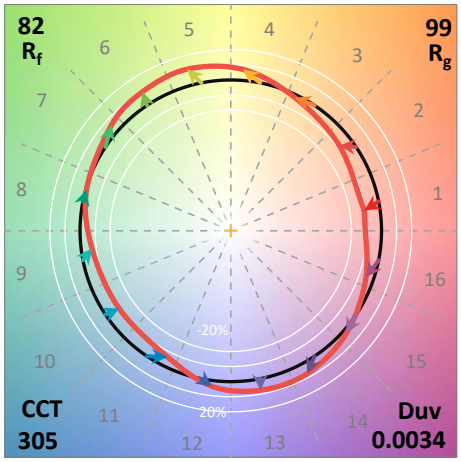
Spectral Power Distribution Comparison

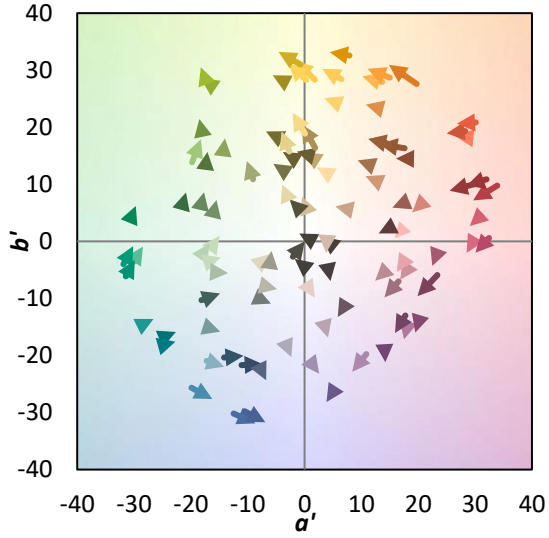


Color Vector Graphics









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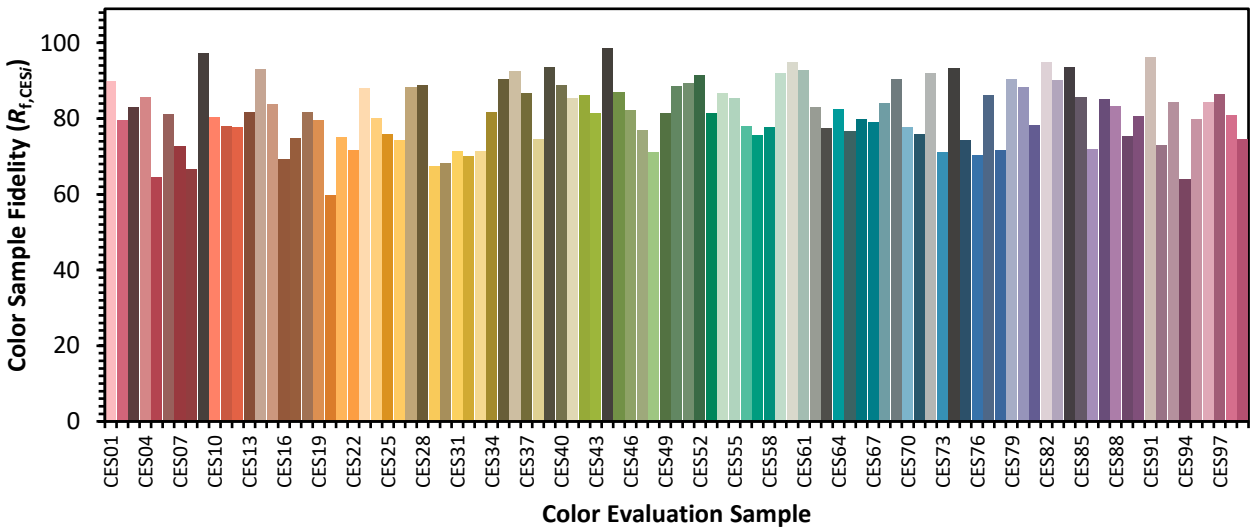
Individual Sample Fidelity Index ($R_{f,i}$)

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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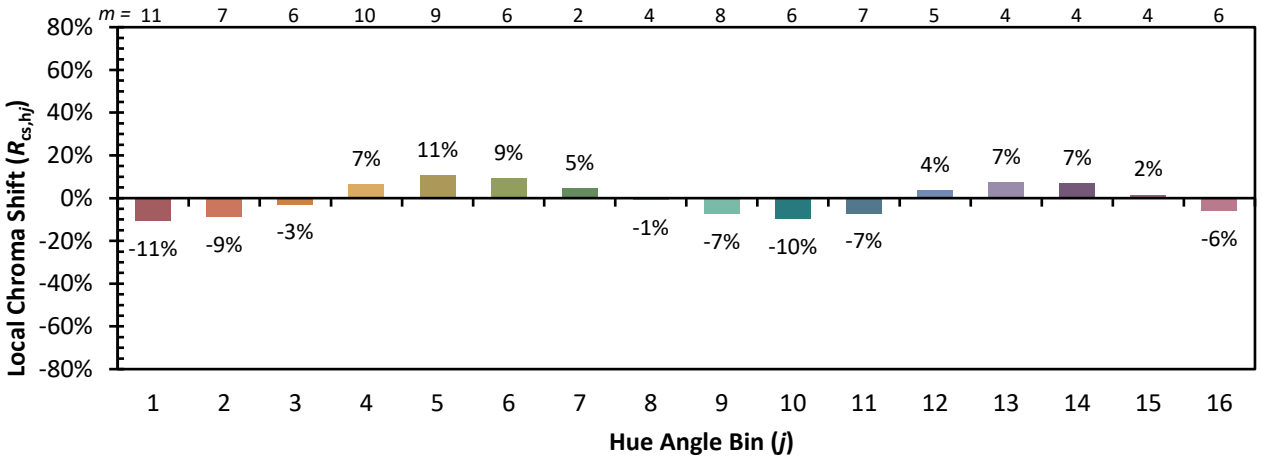
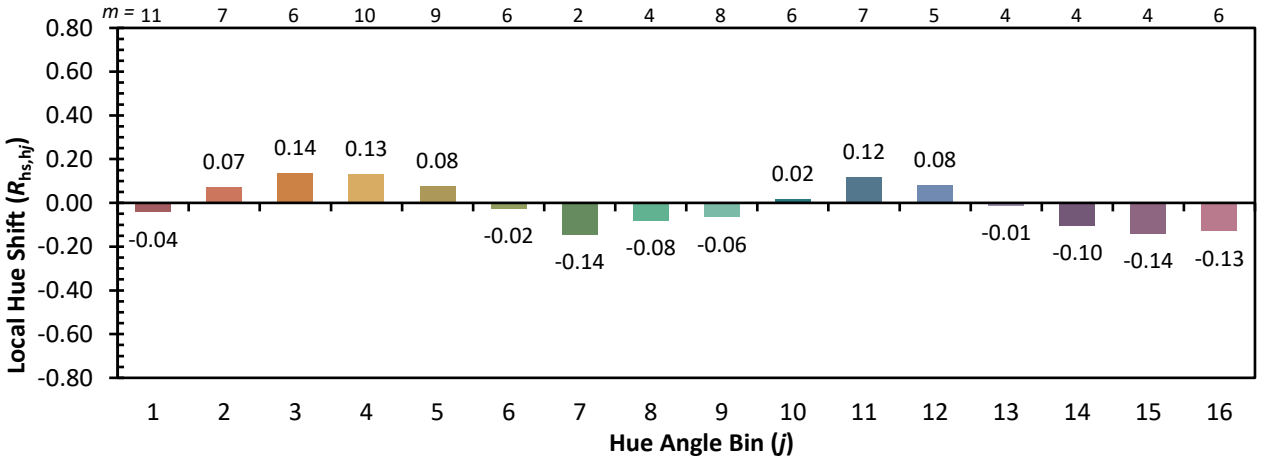
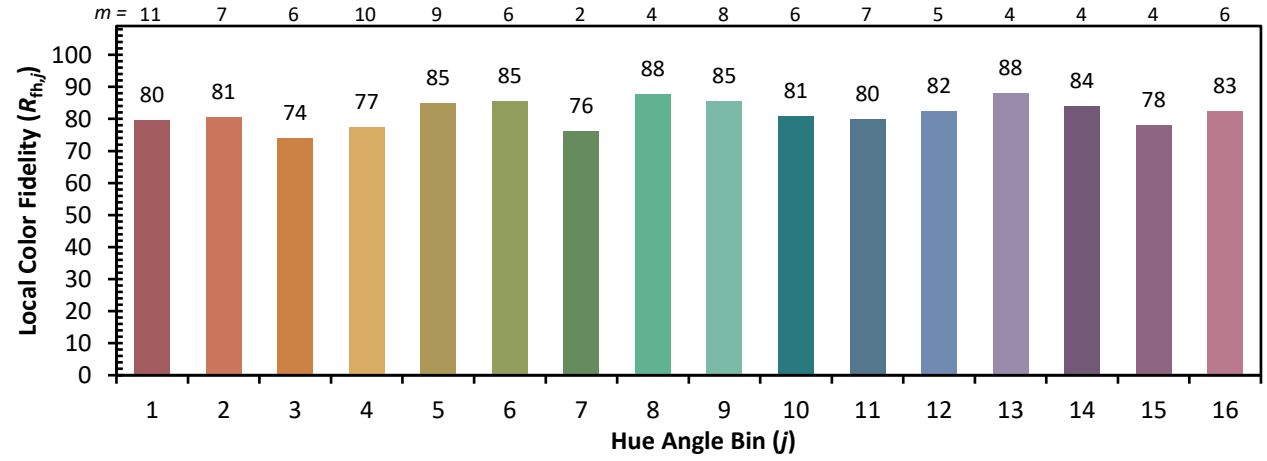
Color Rendition by Hue-Angle Bin







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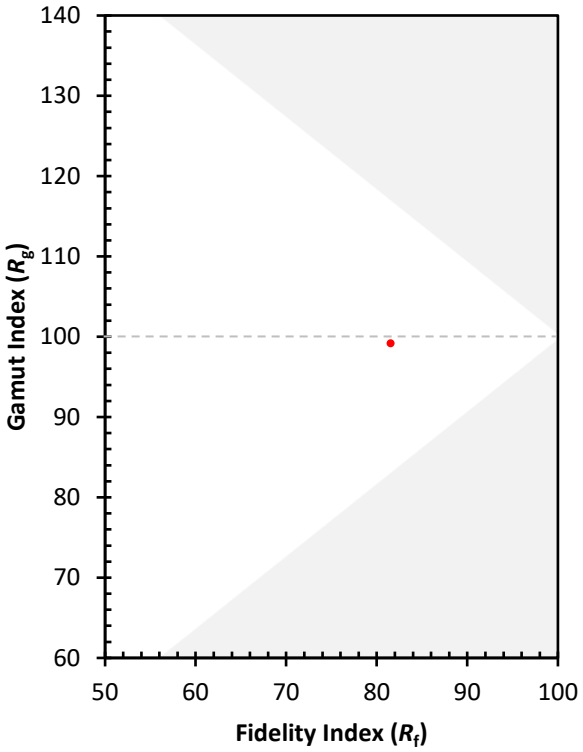
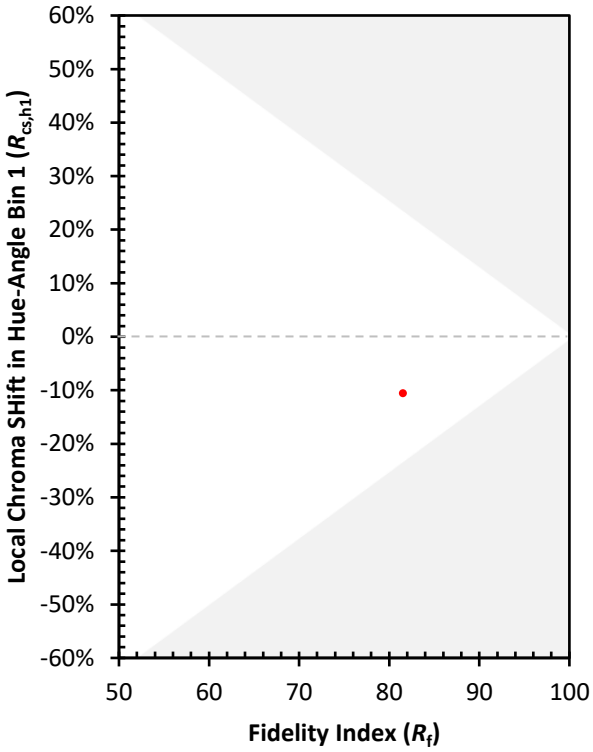
Measure Comparisons





(END OF REPORT)