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: P437607

Luminaire Tested: **ISC-SA1D-830-U-T4W**

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:	P437607
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-12)
Test Lab:	INNOVATION CENTER
Issue Date:	12/9/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	ISC-SA1D-830-U-T4W
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4555 lumens
Efficiency:	N/A
Efficacy:	100.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	45.2
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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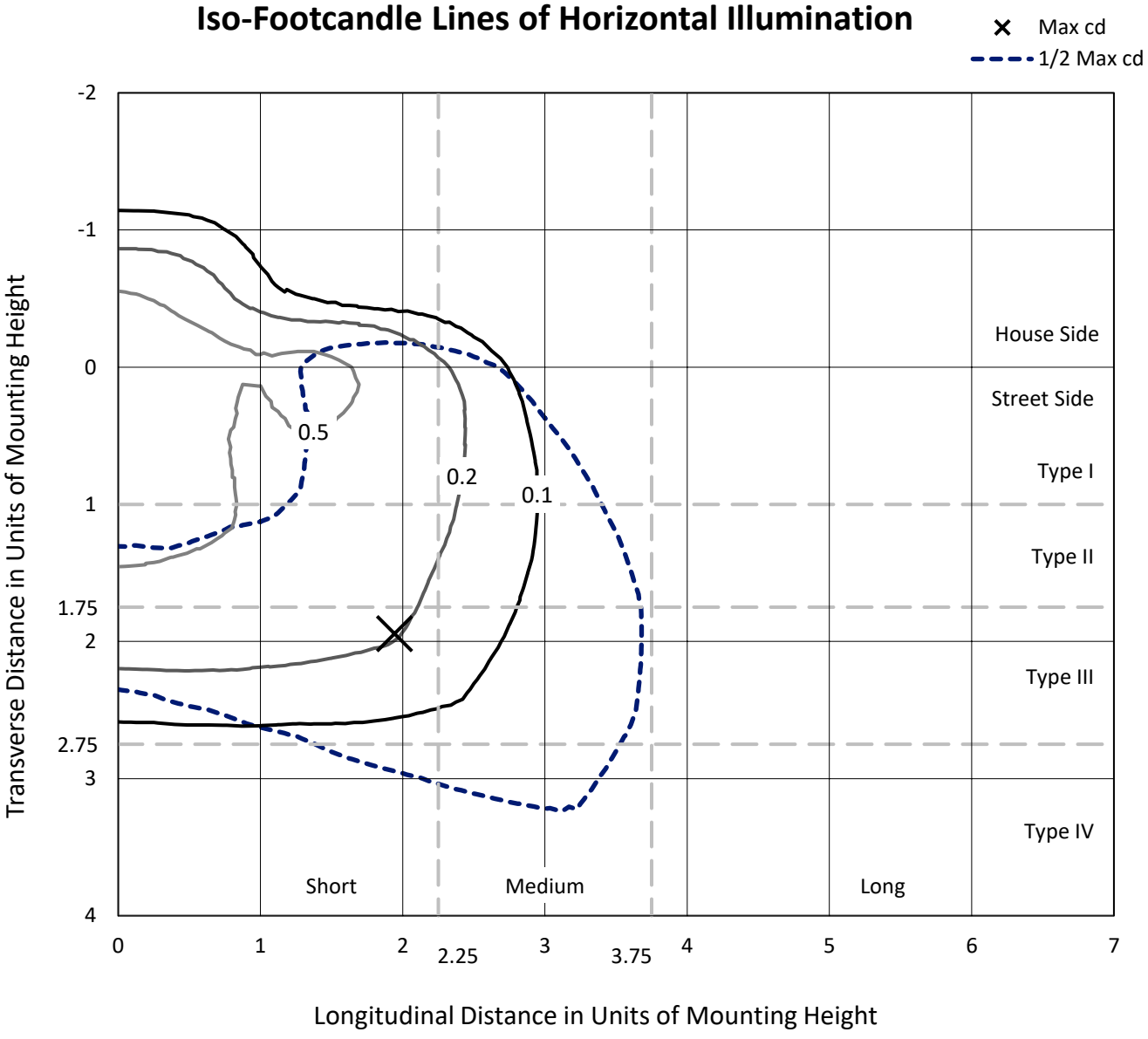
Scaled Data Report

REPORT NUMBER: P437607
CATALOG NUMBER: ISC-SA1D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



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

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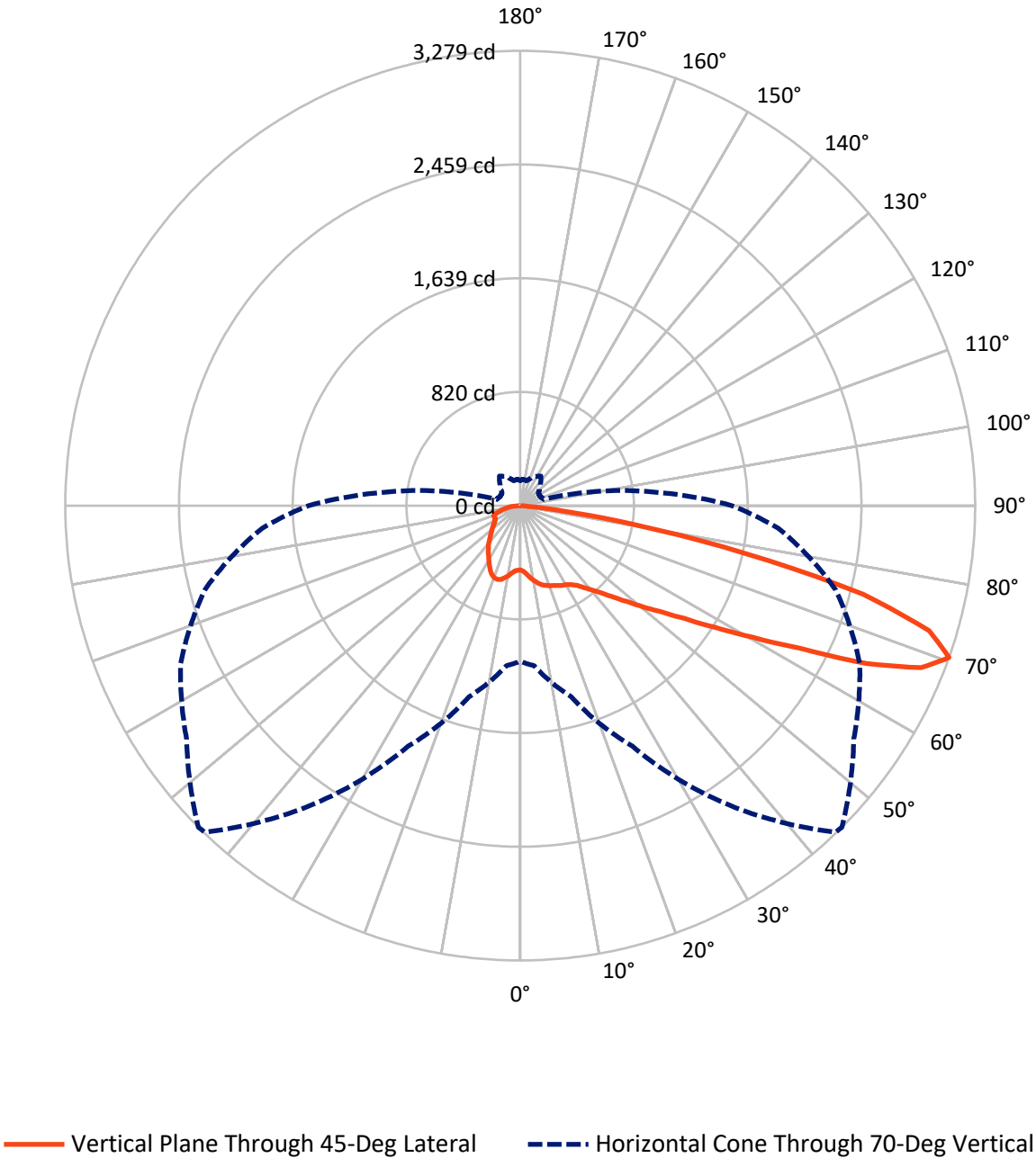
Luminous Intensity Polar Plot



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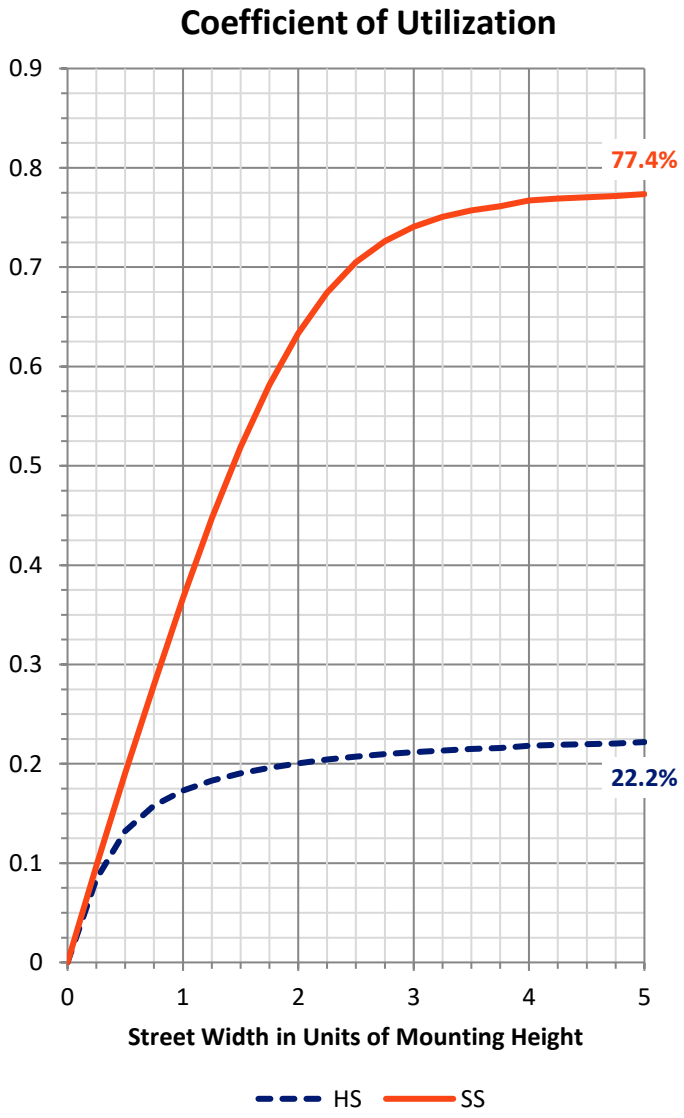
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.4	0.0	1028.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3526.6	0.0	3526.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	4555.0	0.0	4555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.0
10°-20°	160.0	3.5
20°-30°	270.9	5.9
30°-40°	391.7	8.6
40°-50°	564.8	12.4
50°-60°	926.4	20.3
60°-70°	1327.2	29.1
70°-80°	788.9	17.3
80°-90°	77.2	1.7
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°	4555.0	100.0
0°-180°	4555.0	100.0



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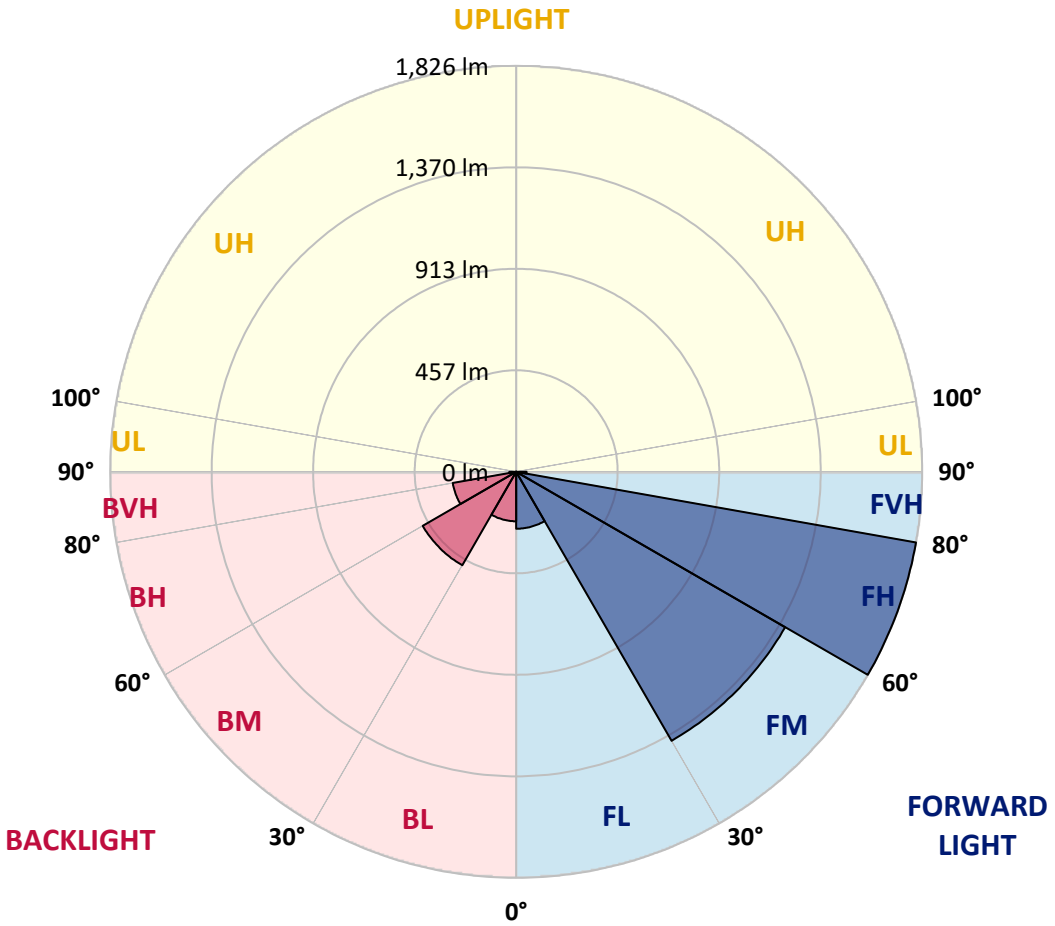
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	256.1	5.6			
FM	(30°-60°)	1397.5	30.7			
FH	(60°-80°)	1826.4	40.1			G2/5000
FVH	(80°-90°)	46.5	1.0			G1/100
BL	(0°-30°)	222.6	4.9	B1/500		
BM	(30°-60°)	485.5	10.7	B1/1000		
BH	(60°-80°)	289.7	6.4	B1/500		G1/500
BVH	(80°-90°)	30.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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REPORT NUMBER: P437607
CATALOG NUMBER: ISC-SA1D-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	463.7	463.7	463.7	463.7	463.7	463.7	*463.7*	463.7	463.7	463.7	463.7
2.5°	486.6	486.6	485.0	483.3	480.1	476.8	*475.2*	470.2	470.2	468.6	465.3
5°	522.7	519.4	517.8	511.2	506.3	498.1	*496.5*	485.0	478.4	473.5	470.2
7.5°	560.4	562.0	555.4	547.2	535.8	524.3	*524.3*	511.2	499.7	488.3	478.4
10°	596.4	596.4	588.2	578.4	566.9	552.2	*548.9*	534.1	521.0	506.3	494.8
12.5°	624.3	622.6	612.8	603.0	588.2	576.7	*573.5*	555.4	544.0	525.9	509.6
15°	643.9	643.9	634.1	619.3	604.6	593.1	*593.1*	580.0	563.6	545.6	525.9
17.5°	655.4	653.8	645.6	629.2	616.1	606.2	*604.6*	594.8	584.9	566.9	542.3
20°	655.4	652.1	645.6	632.5	621.0	614.4	*616.1*	607.9	601.3	580.0	560.4
22.5°	653.8	652.1	640.6	630.8	627.5	625.9	*624.3*	621.0	609.5	593.1	576.7
25°	668.5	666.9	653.8	640.6	634.1	634.1	*637.4*	630.8	624.3	607.9	593.1
27.5°	709.5	702.9	684.9	660.3	650.5	648.8	*650.5*	642.3	637.4	625.9	612.8
30°	778.3	775.0	747.1	701.3	675.1	661.9	*660.3*	658.7	652.1	643.9	632.5
32.5°	868.4	865.1	822.5	763.5	707.8	678.3	*680.0*	671.8	671.8	660.3	650.5
35°	979.8	973.3	930.7	847.1	757.0	707.8	*704.5*	693.1	694.7	675.1	665.2
37.5°	1078.1	1071.6	1030.6	932.3	819.2	755.3	*750.4*	722.6	704.5	680.0	681.6
40°	1161.7	1163.3	1133.8	1035.5	899.5	807.8	*799.6*	745.5	724.2	702.9	712.7
42.5°	1246.9	1251.8	1232.1	1127.3	981.4	865.1	*861.8*	784.8	766.8	750.4	773.4
45°	1330.4	1340.3	1323.9	1225.6	1073.2	952.0	*938.8*	848.7	837.3	827.4	896.2
47.5°	1404.2	1407.4	1405.8	1328.8	1174.8	1050.3	*1032.2*	932.3	947.0	973.3	1087.9
50°	1495.9	1500.8	1474.6	1432.0	1312.4	1161.7	*1145.3*	1037.2	1097.8	1183.0	1356.7
52.5°	1631.9	1638.5	1564.7	1538.5	1482.8	1296.0	*1271.5*	1191.2	1322.2	1450.0	1656.5
55°	1710.6	1700.7	1668.0	1671.2	1640.1	1456.6	*1435.3*	1379.6	1566.4	1718.8	1995.7
57.5°	1761.4	1756.4	1776.1	1820.3	1820.3	1663.0	*1654.9*	1630.3	1828.5	2012.0	2264.4
60°	1843.3	1853.1	1899.0	1987.5	2035.0	1933.4	*1928.5*	1933.4	2123.5	2216.9	2456.1
62.5°	1894.1	1915.4	2031.7	2184.1	2284.0	2295.5	*2264.4*	2261.1	2352.8	2387.3	2582.2
65°	1804.0	1838.4	2028.4	2275.8	2582.2	2767.4	*2744.4*	2546.2	2542.9	2541.3	2557.7
67.5°	1566.4	1592.6	1867.9	2234.9	2742.8	3129.5	*3116.4*	2800.1	2723.1	2554.4	2328.3
70°	*1122.4*	*1158.4*	*1427.1*	*1913.7*	*2639.6*	*3273.7*	*3278.6*	*2934.5*	*2700.2*	*2354.5*	*1866.2*
72.5°	694.7	696.4	870.0	1363.2	2234.9	3062.3	*3082.0*	2801.8	2429.9	1961.3	1319.0
75°	214.6	232.7	368.7	714.4	1512.3	2490.5	*2551.1*	2328.3	1944.9	1356.7	722.6
77.5°	106.5	109.8	132.7	262.2	727.5	1612.3	*1658.1*	1554.9	1228.9	657.0	303.1
80°	60.6	63.9	81.9	116.3	278.5	801.2	*838.9*	819.2	498.1	237.6	129.4
82.5°	29.5	31.1	41.0	59.0	118.0	239.2	*268.7*	294.9	190.1	126.2	70.5
85°	8.2	8.2	11.5	19.7	31.1	49.2	*49.2*	54.1	67.2	63.9	34.4
87.5°	0.0	0.0	0.0	1.6	1.6	1.6	*3.3*	1.6	3.3	4.9	4.9
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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Scaled Data Report

REPORT NUMBER: P437607
CATALOG NUMBER: ISC-SA1D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	463.7	463.7	463.7	463.7	463.7	463.7	463.7	463.7	463.7	463.7	463.7
2.5°	465.3	465.3	462.0	463.7	463.7	465.3	465.3	467.0	468.6	470.2	470.2
5°	468.6	467.0	465.3	467.0	468.6	471.9	476.8	481.7	485.0	489.9	488.3
7.5°	478.4	473.5	475.2	475.2	481.7	488.3	498.1	504.6	511.2	514.5	514.5
10°	489.9	486.6	485.0	491.5	498.1	511.2	519.4	529.2	534.1	542.3	539.1
12.5°	506.3	498.1	499.7	507.9	521.0	530.9	537.4	545.6	550.5	557.1	555.4
15°	519.4	514.5	516.1	529.2	542.3	548.9	552.2	555.4	557.1	562.0	563.6
17.5°	535.8	534.1	535.8	547.2	555.4	557.1	555.4	552.2	550.5	555.4	553.8
20°	553.8	552.2	553.8	562.0	558.7	552.2	545.6	540.7	535.8	539.1	540.7
22.5°	568.5	570.2	571.8	568.5	555.4	539.1	527.6	519.4	516.1	519.4	522.7
25°	586.6	588.2	589.8	573.5	542.3	516.1	499.7	494.8	496.5	501.4	503.0
27.5°	609.5	614.4	609.5	571.8	524.3	486.6	473.5	471.9	473.5	478.4	483.3
30°	634.1	640.6	624.3	563.6	499.7	457.1	445.7	445.7	450.6	453.9	458.8
32.5°	655.4	668.5	637.4	548.9	465.3	429.3	421.1	417.8	417.8	421.1	422.7
35°	681.6	698.0	645.6	522.7	432.6	406.3	399.8	390.0	381.8	383.4	381.8
37.5°	707.8	732.4	642.3	481.7	396.5	380.1	373.6	358.8	345.7	337.5	340.8
40°	757.0	786.5	635.7	429.3	363.7	357.2	345.7	329.3	312.9	298.2	296.6
42.5°	843.8	845.5	621.0	381.8	332.6	329.3	319.5	304.8	285.1	265.4	265.4
45°	960.1	930.7	601.3	337.5	303.1	306.4	298.2	283.5	260.5	242.5	242.5
47.5°	1135.5	1032.2	563.6	298.2	278.5	285.1	280.2	265.4	240.9	224.5	224.5
50°	1381.2	1197.7	525.9	270.3	260.5	267.1	265.4	247.4	224.5	211.4	211.4
52.5°	1666.3	1414.0	499.7	249.0	239.2	250.7	250.7	234.3	213.0	203.2	201.5
55°	1959.6	1617.2	473.5	231.0	224.5	234.3	239.2	224.5	204.8	196.6	195.0
57.5°	2167.7	1718.8	437.5	216.3	208.1	221.2	227.7	217.9	199.9	191.7	190.1
60°	2272.6	1728.6	367.0	201.5	193.3	209.7	221.2	213.0	199.9	196.6	196.6
62.5°	2297.1	1687.6	293.3	188.4	183.5	203.2	222.8	219.6	209.7	213.0	214.6
65°	2192.3	1551.6	239.2	178.6	177.0	201.5	232.7	231.0	211.4	219.6	221.2
67.5°	1941.6	1315.7	203.2	168.8	167.1	204.8	250.7	231.0	199.9	208.1	204.8
70°	*1525.4*	*1042.1*	*175.3*	*158.9*	*158.9*	*203.2*	*260.5*	*227.7*	*186.8*	*190.1*	*180.2*
72.5°	1002.7	683.2	155.7	149.1	144.2	185.1	254.0	221.2	180.2	170.4	158.9
75°	507.9	339.2	139.3	140.9	126.2	157.3	245.8	219.6	178.6	162.2	157.3
77.5°	209.7	158.9	124.5	127.8	106.5	134.4	231.0	203.2	160.6	144.2	139.3
80°	109.8	98.3	104.9	106.5	86.8	106.5	183.5	175.3	144.2	132.7	126.2
82.5°	63.9	62.3	80.3	81.9	60.6	86.8	162.2	152.4	121.2	108.1	104.9
85°	29.5	34.4	54.1	49.2	37.7	57.3	98.3	75.4	54.1	47.5	45.9
87.5°	3.3	4.9	11.5	11.5	8.2	4.9	1.6	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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Peachtree City, GA 30269

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

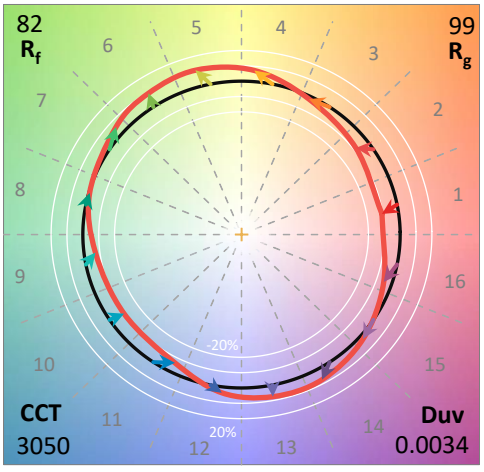
Test Information

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

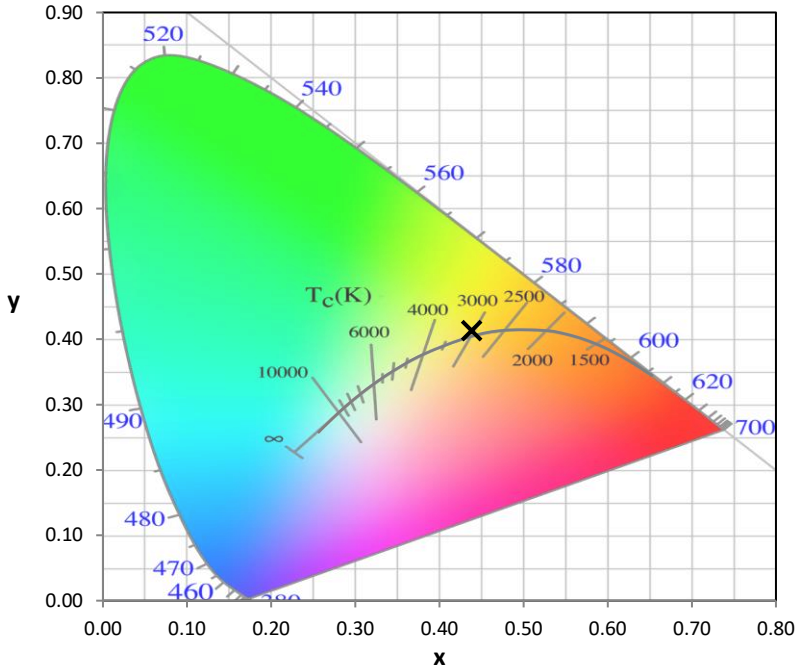
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

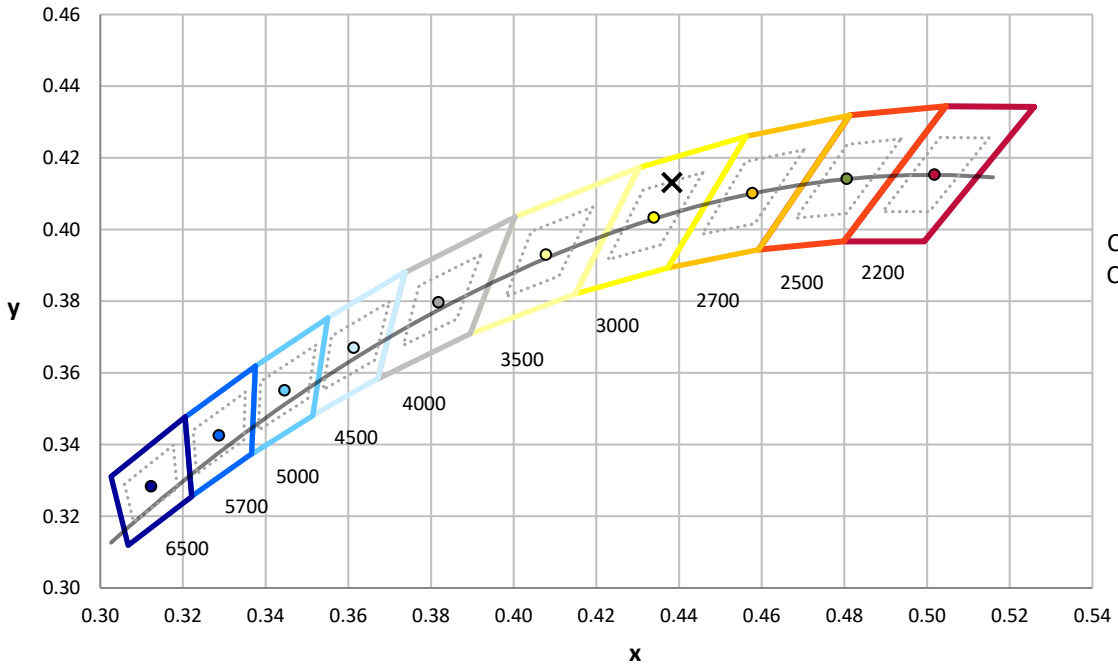
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

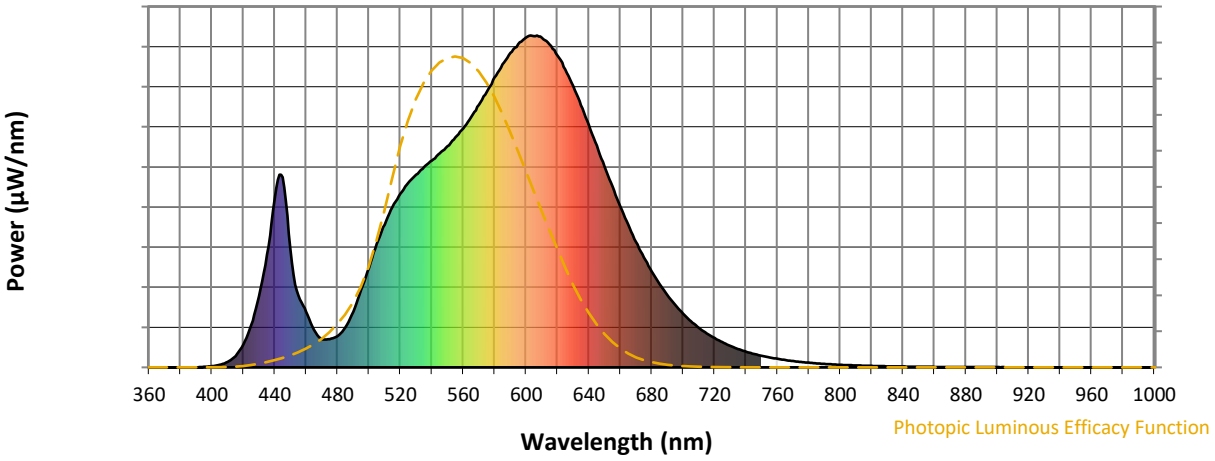


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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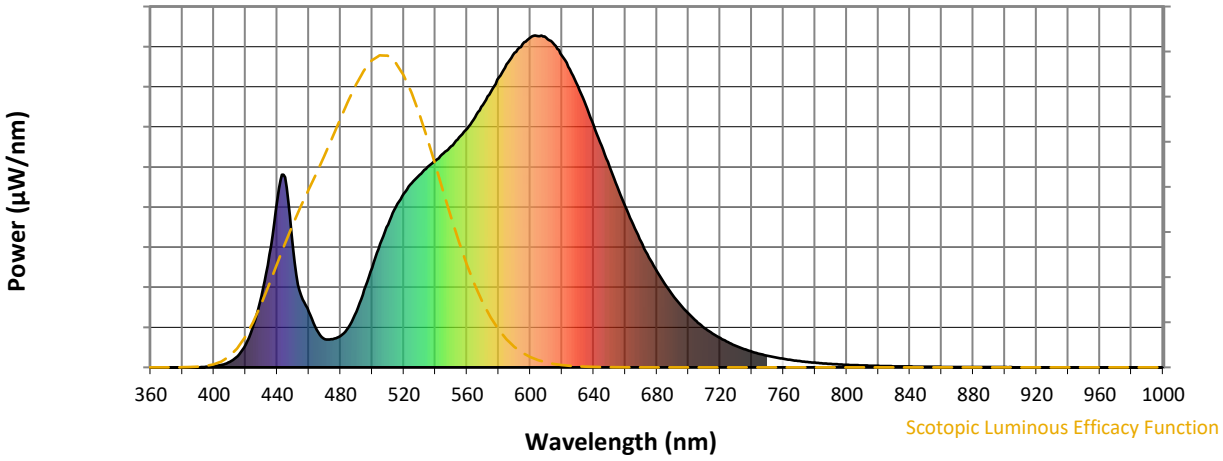
Scotopic Flux vs. Wavelength



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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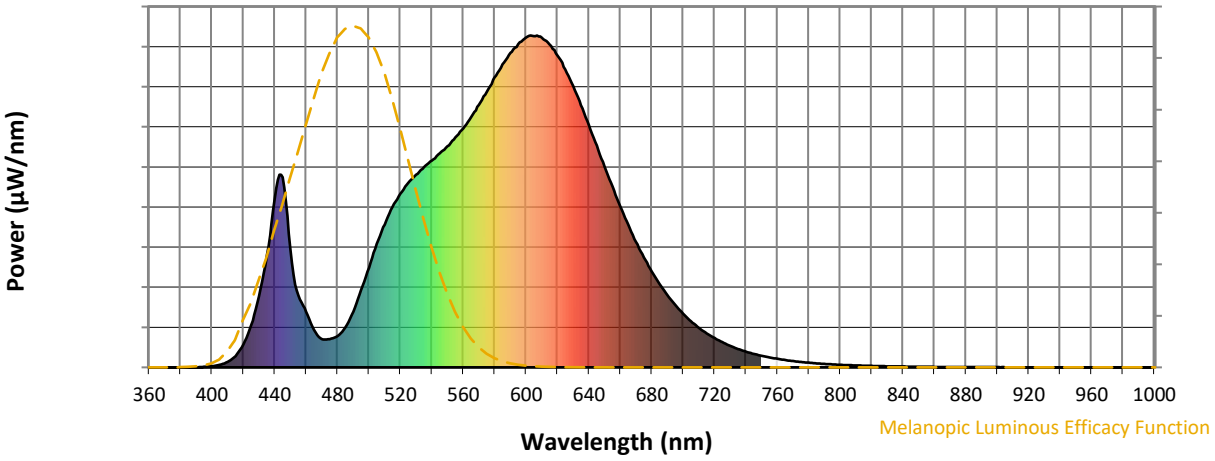
Melanopic Flux vs. Wavelength



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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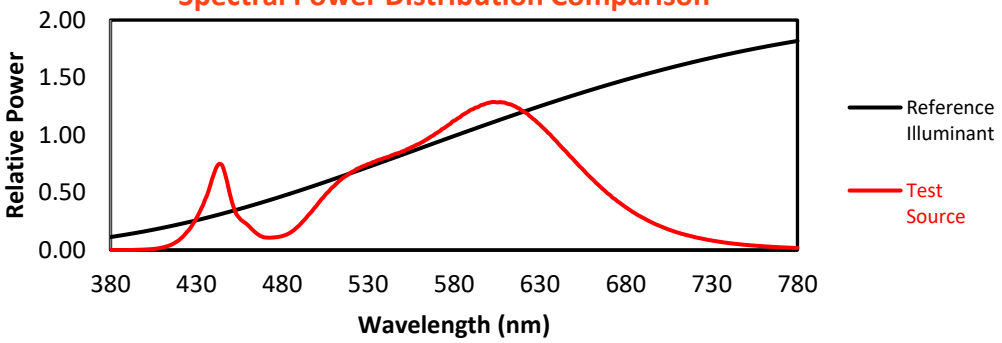
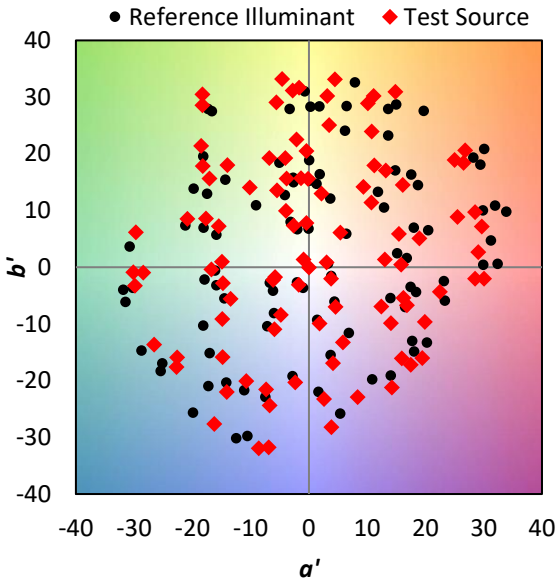
Summary

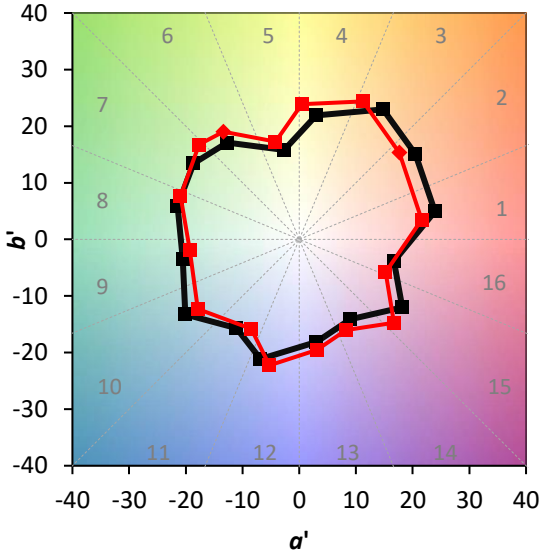
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

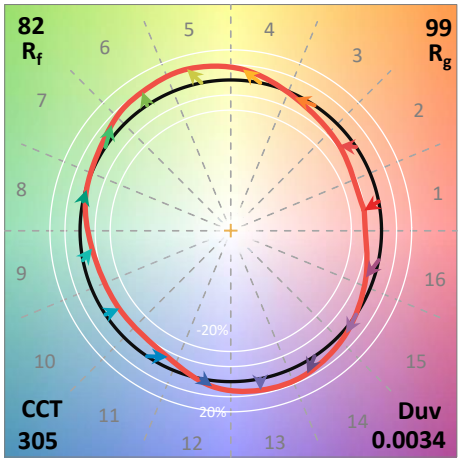
Spectral Power Distribution Comparison

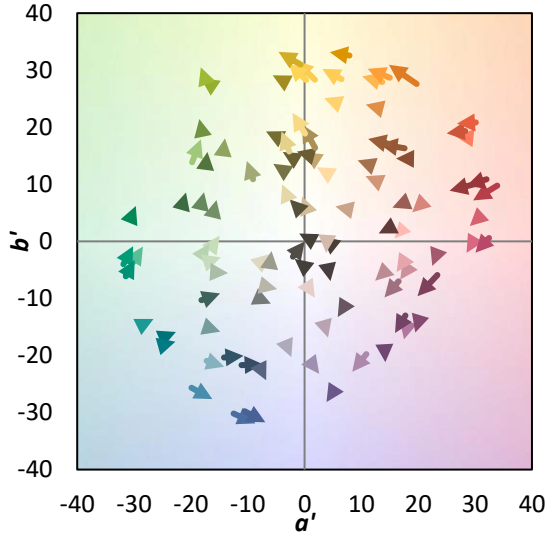


Color Vector Graphics









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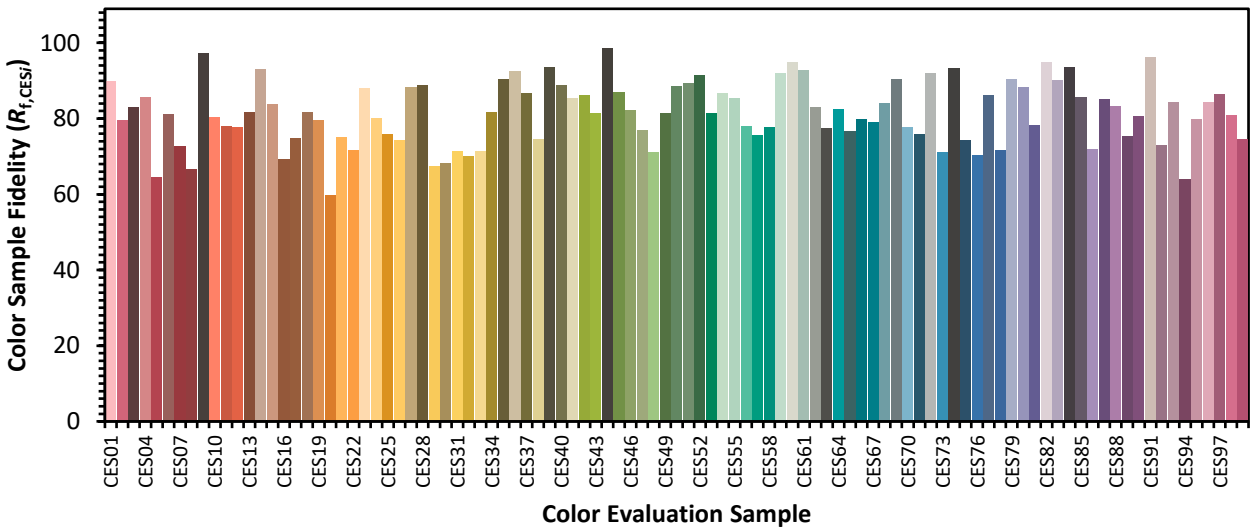
Individual Sample Fidelity Index ($R_{f,i}$)

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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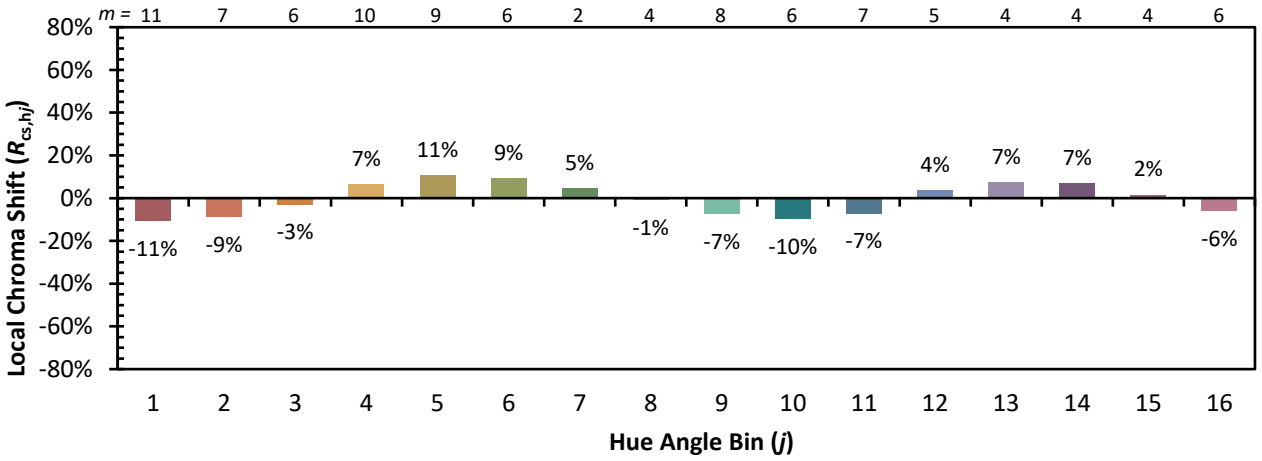
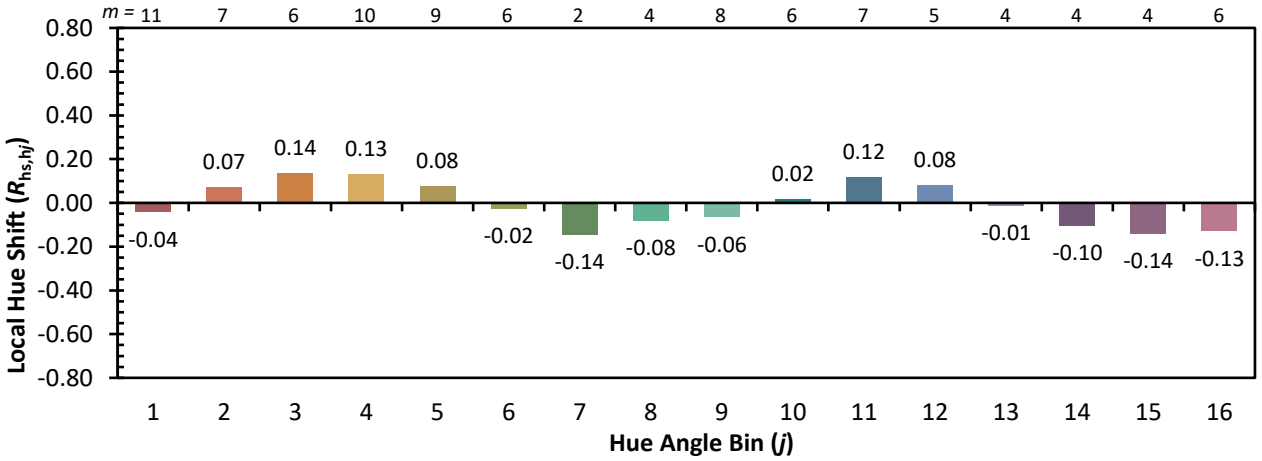
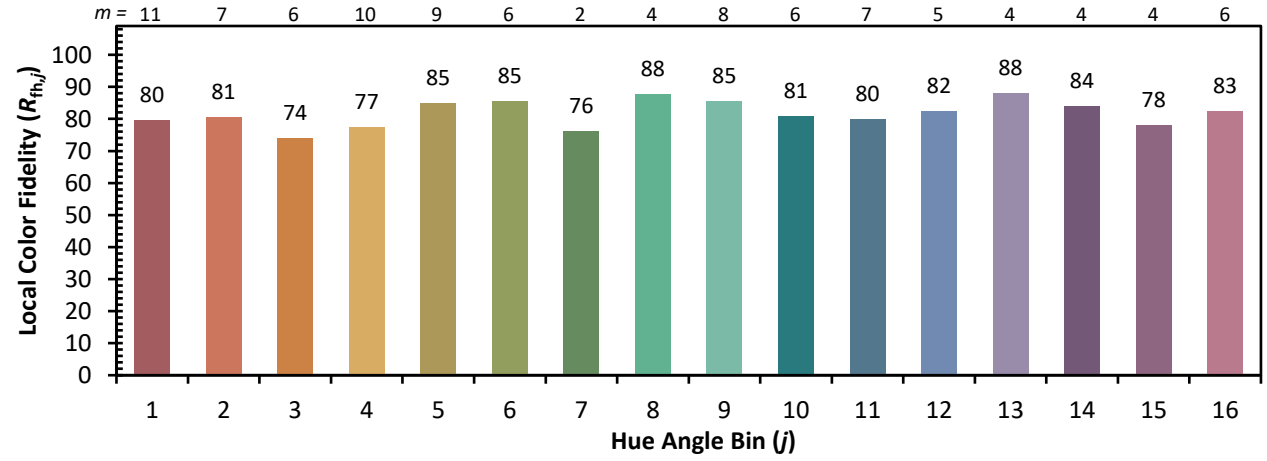
Color Rendition by Hue-Angle Bin







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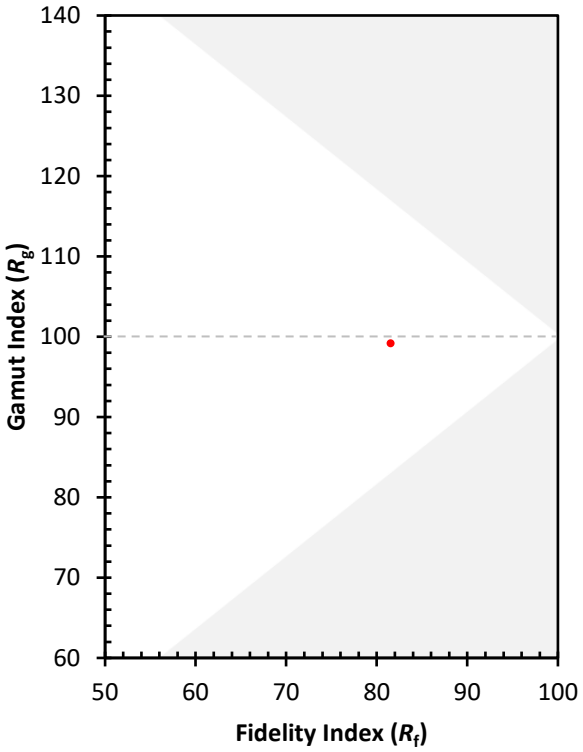
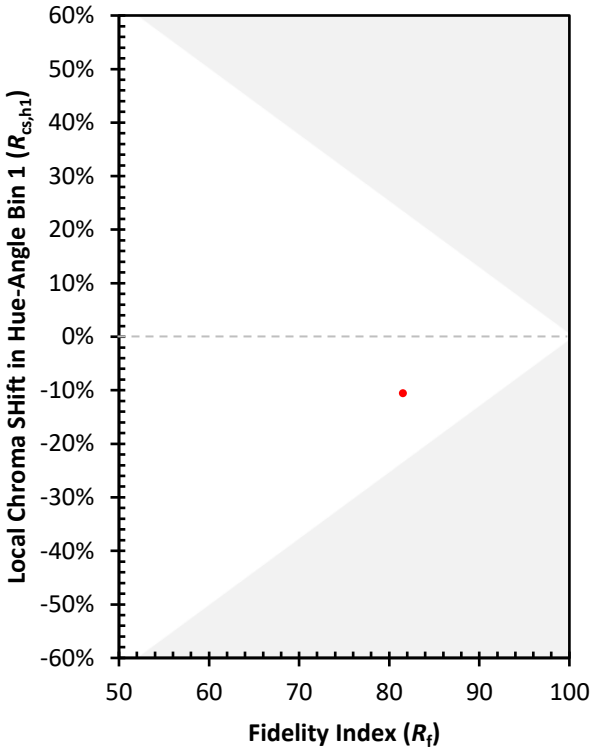
Measure Comparisons





(END OF REPORT)