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: P437761

Luminaire Tested: **ISC-SA1E-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:	P437761
	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:	ISC-SA1E-830-U-SL2-HSS
Description:	IMPACT ELITE LED CYLINDER LUMINAIRE
	(1) 80 CRI, 3000K, 1050mA 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:	4674 lumens
Efficiency:	N/A
Efficacy:	80.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	58.2
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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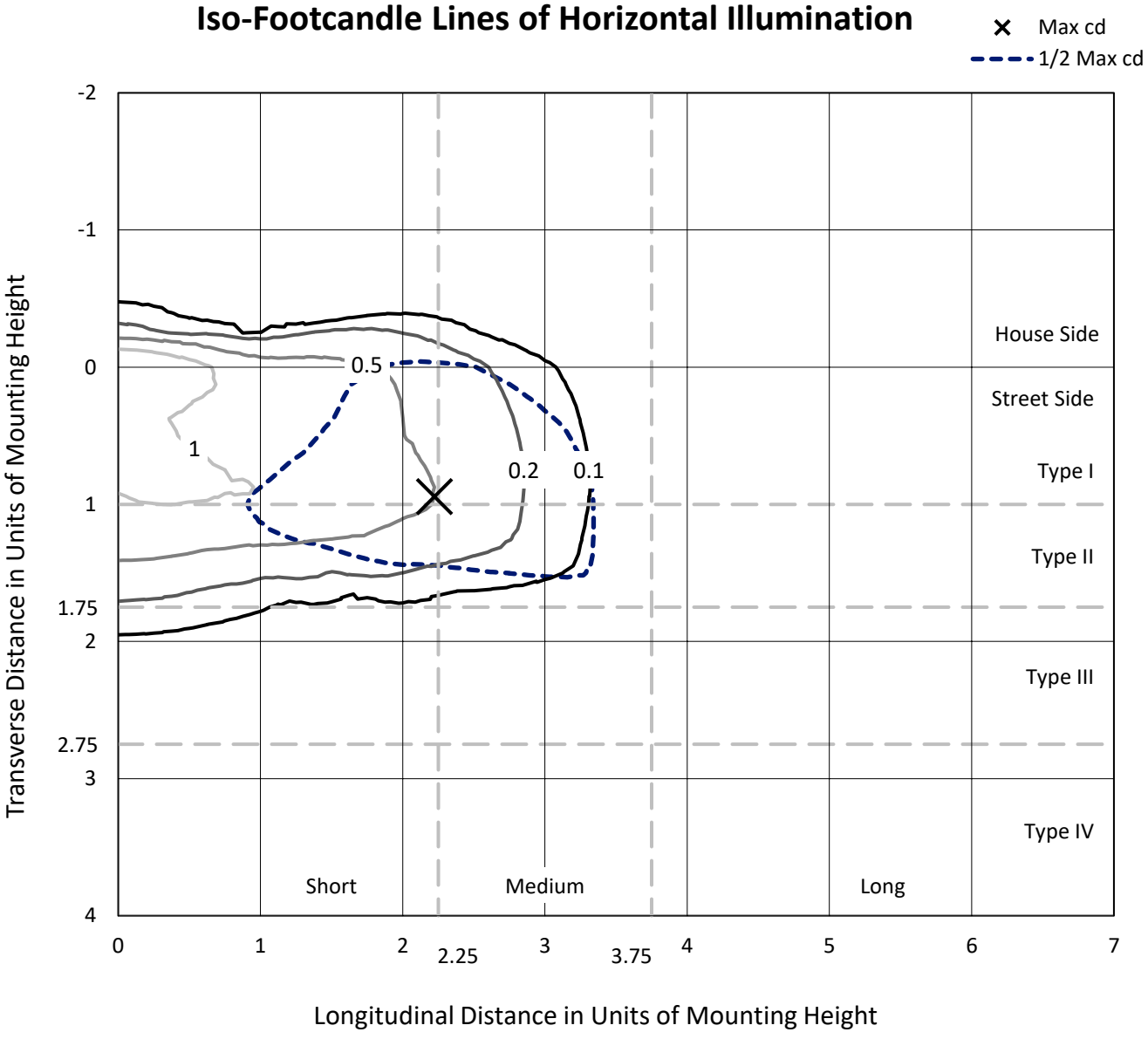
REPORT NUMBER: P437761
CATALOG NUMBER: ISC-SA1E-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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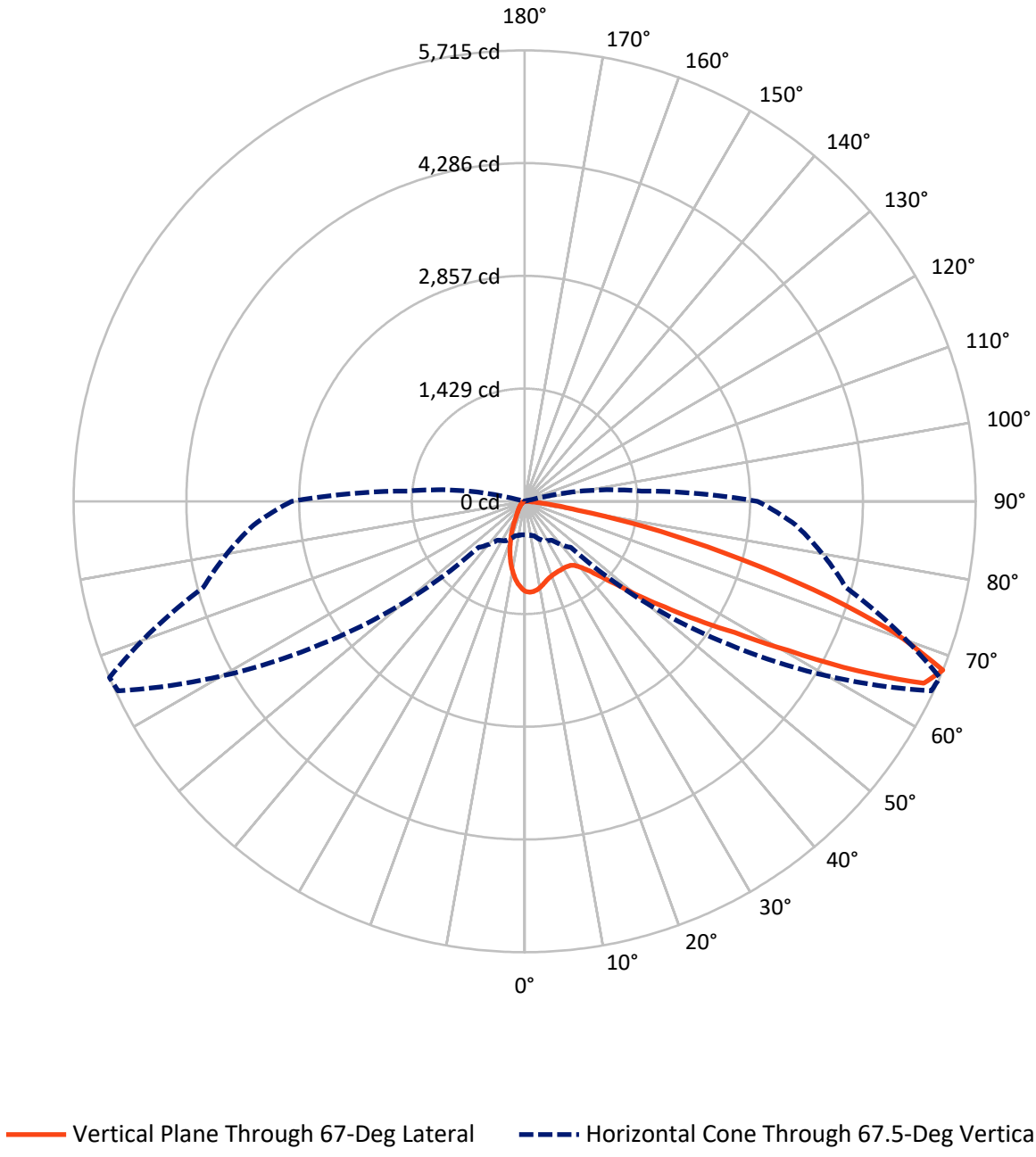
Luminous Intensity Polar Plot



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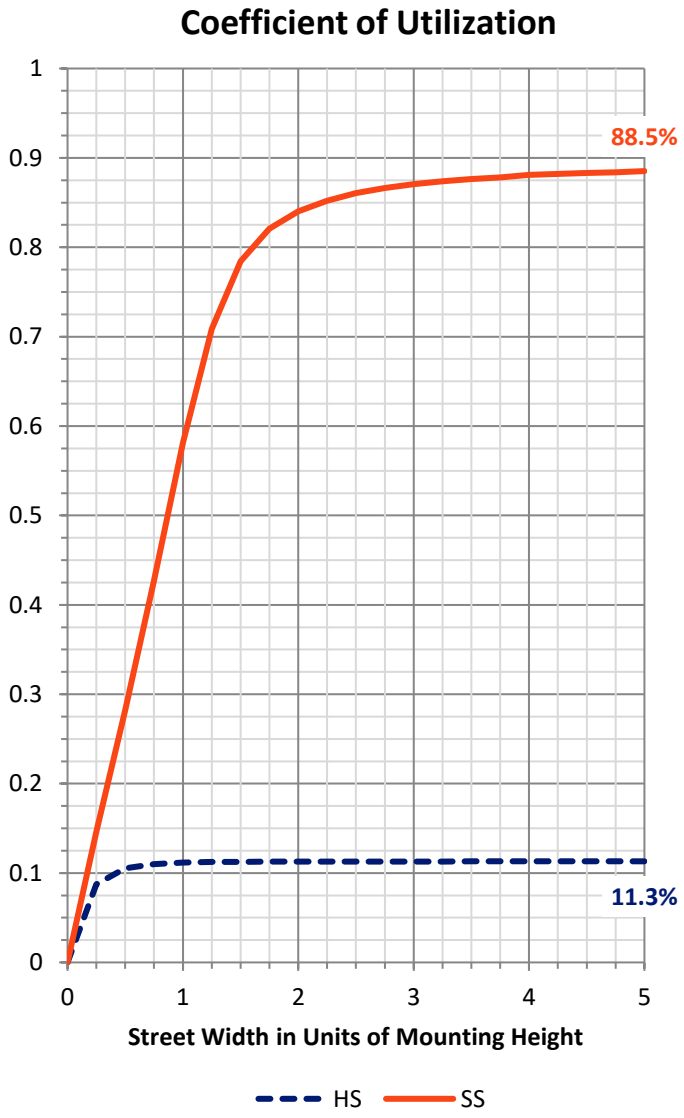
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.4	0.0	533.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4140.6	0.0	4140.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	4674.0	0.0	4674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	2.0
10°-20°	201.5	4.3
20°-30°	288.6	6.2
30°-40°	424.8	9.1
40°-50°	701.7	15.0
50°-60°	1128.7	24.1
60°-70°	1230.7	26.3
70°-80°	560.1	12.0
80°-90°	45.1	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°	4674.0	100.0
0°-180°	4674.0	100.0



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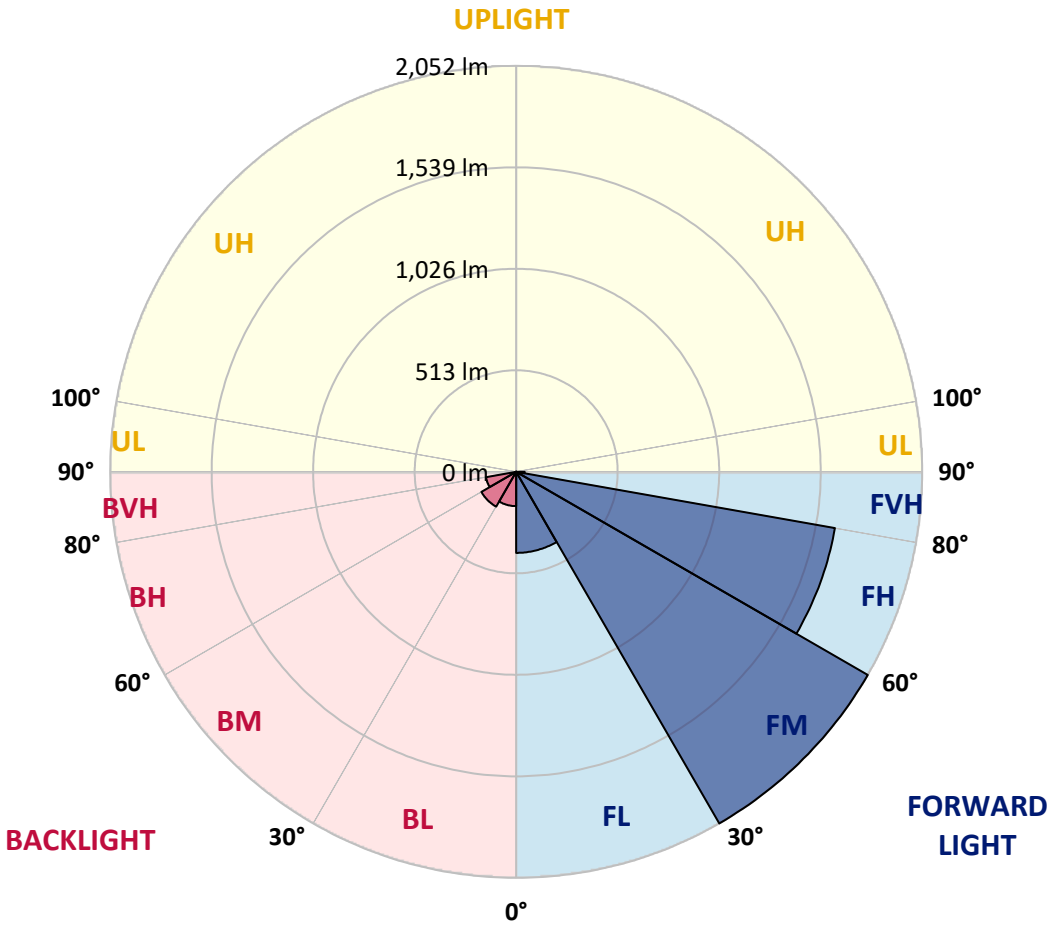
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	409.8	8.8			
FM	(30°-60°)	2052.1	43.9			
FH	(60°-80°)	1635.9	35.0			G1/1800
FVH	(80°-90°)	42.8	0.9			G1/100
BL	(0°-30°)	173.3	3.7	B1/500		
BM	(30°-60°)	203.1	4.3	B0/220		
BH	(60°-80°)	154.8	3.3	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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REPORT NUMBER: P437761
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	*1140.5*	1140.5	1140.5
2.5°	1126.1	1136.4	1138.4	1142.5	1142.5	1148.7	1150.7	1154.9	*1152.8*	1154.9	1150.7
5°	1048.2	1056.4	1052.3	1072.8	1085.1	1107.7	1130.2	1148.7	*1148.7*	1154.9	1152.8
7.5°	970.2	978.4	978.4	994.9	1015.4	1048.2	1085.1	1128.2	*1132.3*	1152.8	1146.6
10°	908.7	912.8	916.9	935.4	960.0	992.8	1042.0	1097.4	*1105.6*	1140.5	1142.5
12.5°	859.5	865.6	871.8	890.2	912.8	945.6	992.8	1056.4	*1070.7*	1120.0	1138.4
15°	834.9	834.9	841.0	857.4	877.9	912.8	955.9	1029.7	*1042.0*	1107.7	1136.4
17.5°	822.5	824.6	828.7	836.9	853.3	882.0	929.2	1001.0	*1017.4*	1097.4	1136.4
20°	839.0	839.0	832.8	836.9	845.1	867.7	910.8	980.5	*1001.0*	1091.3	1146.6
22.5°	873.8	873.8	863.6	857.4	851.3	859.5	898.4	972.3	*990.8*	1091.3	1152.8
25°	927.2	927.2	921.0	902.5	875.9	869.7	900.5	970.2	*984.6*	1093.3	1161.0
27.5°	990.8	992.8	986.6	966.1	925.1	890.2	906.7	966.1	*982.5*	1091.3	1165.1
30°	1074.9	1083.1	1074.9	1046.1	996.9	931.3	921.0	964.1	*980.5*	1087.2	1167.2
32.5°	1159.0	1165.1	1173.3	1154.9	1085.1	994.9	951.8	972.3	*986.6*	1089.2	1163.1
35°	1241.0	1257.4	1271.8	1277.9	1206.1	1085.1	1003.1	990.8	*996.9*	1095.4	1163.1
37.5°	1329.2	1345.6	1376.4	1407.2	1347.7	1185.6	1079.0	1031.8	*1031.8*	1115.9	1175.4
40°	1442.0	1450.2	1509.7	1546.6	1517.9	1347.7	1187.7	1101.5	*1099.5*	1173.3	1210.2
42.5°	1550.7	1573.3	1651.3	1706.6	1688.2	1538.4	1319.0	1224.6	*1204.1*	1265.6	1273.8
45°	1708.7	1743.6	1805.1	1887.1	1905.6	1751.8	1522.0	1382.5	*1362.0*	1403.1	1380.5
47.5°	1856.4	1881.0	1940.5	2045.1	2151.8	2026.6	1751.8	1604.1	*1585.6*	1602.0	1565.1
50°	1903.6	1915.9	1983.6	2112.8	2365.1	2420.5	2067.7	1891.2	*1889.2*	1876.9	1815.4
52.5°	1821.5	1823.6	1901.5	2059.4	2453.3	2851.2	2514.8	2262.5	*2227.7*	2201.0	2118.9
55°	1571.3	1589.7	1655.4	1852.3	2367.1	3099.4	3230.7	2711.7	*2654.3*	2557.9	2455.3
57.5°	1228.7	1220.5	1273.8	1454.3	2102.5	3197.9	3936.3	3282.0	*3138.4*	2849.2	2711.7
60°	894.3	873.8	908.7	1011.3	1528.2	3005.1	4344.5	4086.1	*3839.9*	3163.0	3027.6
62.5°	664.6	664.6	701.5	748.7	937.4	2344.6	4408.1	5007.1	*4730.2*	3561.0	3362.0
65°	531.3	529.2	560.0	631.8	668.7	1454.3	4088.1	5663.5	*5558.9*	3975.3	3581.5
67.5°	*424.6*	*424.6*	*451.3*	*549.7*	*601.0*	*826.7*	*3163.0*	*5684.0*	*5714.8*	*4213.3*	*3448.1*
70°	299.5	309.7	342.6	459.5	580.5	631.8	1917.9	4882.0	*4962.0*	4141.5	3093.3
72.5°	168.2	176.4	235.9	340.5	557.9	607.2	1072.8	3688.1	*3823.5*	3470.7	2523.0
75°	80.0	88.2	137.4	233.8	465.6	578.5	652.3	2615.3	*2596.9*	2254.3	1567.2
77.5°	34.9	39.0	61.5	135.4	330.3	539.5	477.9	1634.8	*1561.0*	1058.4	658.4
80°	12.3	14.4	26.7	77.9	186.7	441.0	397.9	754.9	*683.1*	293.3	172.3
82.5°	2.1	2.1	10.3	36.9	84.1	246.1	328.2	361.0	*311.8*	73.8	73.8
85°	0.0	0.0	2.1	12.3	20.5	22.6	147.7	145.6	*121.0*	24.6	36.9
87.5°	0.0	0.0	0.0	2.1	2.1	4.1	4.1	4.1	*4.1*	4.1	6.2
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: ISC-SA1E-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5
2.5°	1140.5	1138.4	1117.9	1099.5	1074.9	1054.3	1035.9	1017.4	1009.2	1011.3	1015.4
5°	1142.5	1130.2	1087.2	1040.0	990.8	941.5	894.3	865.6	843.1	834.9	843.1
7.5°	1132.3	1111.8	1046.1	970.2	892.3	806.1	734.3	681.0	642.0	617.4	627.7
10°	1124.1	1093.3	996.9	882.0	771.3	658.4	555.9	480.0	426.7	395.9	389.7
12.5°	1109.7	1072.8	939.5	793.8	640.0	486.1	363.1	283.1	240.0	217.4	223.6
15°	1105.6	1048.2	882.0	691.3	500.5	328.2	219.5	174.4	155.9	151.8	151.8
17.5°	1101.5	1031.8	820.5	590.8	359.0	205.1	151.8	139.5	135.4	133.3	135.4
20°	1097.4	1009.2	759.0	482.0	242.0	147.7	131.3	125.1	121.0	121.0	119.0
22.5°	1101.5	994.9	701.5	379.5	166.2	125.1	114.9	110.8	106.7	104.6	104.6
25°	1097.4	976.4	631.8	279.0	129.2	110.8	102.6	94.4	90.3	88.2	86.2
27.5°	1091.3	953.8	566.1	201.0	112.8	98.5	88.2	80.0	73.8	71.8	71.8
30°	1085.1	925.1	490.2	147.7	102.6	88.2	75.9	67.7	61.5	57.4	57.4
32.5°	1068.7	898.4	416.4	119.0	92.3	77.9	65.6	55.4	51.3	49.2	49.2
35°	1058.4	867.7	338.5	102.6	84.1	67.7	55.4	47.2	43.1	41.0	41.0
37.5°	1056.4	834.9	268.7	92.3	75.9	59.5	47.2	41.0	36.9	34.9	34.9
40°	1064.6	818.4	207.2	84.1	65.6	51.3	41.0	34.9	30.8	28.7	28.7
42.5°	1097.4	816.4	157.9	75.9	59.5	45.1	36.9	28.7	24.6	22.6	22.6
45°	1171.3	828.7	125.1	69.7	51.3	39.0	30.8	24.6	20.5	18.5	18.5
47.5°	1292.3	880.0	104.6	63.6	43.1	32.8	24.6	20.5	14.4	14.4	14.4
50°	1489.2	988.7	92.3	55.4	36.9	26.7	20.5	14.4	10.3	10.3	10.3
52.5°	1780.5	1154.9	84.1	49.2	30.8	22.6	16.4	10.3	8.2	8.2	8.2
55°	2082.0	1362.0	77.9	41.0	26.7	18.5	12.3	8.2	6.2	6.2	4.1
57.5°	2356.9	1532.3	69.7	34.9	20.5	14.4	8.2	6.2	4.1	4.1	4.1
60°	2683.0	1702.5	59.5	26.7	16.4	10.3	6.2	4.1	2.1	2.1	2.1
62.5°	2998.9	1798.9	49.2	20.5	12.3	8.2	4.1	2.1	2.1	2.1	2.1
65°	3136.4	1753.8	39.0	16.4	10.3	6.2	2.1	2.1	2.1	0.0	0.0
67.5°	*2951.7*	*1483.0*	*30.8*	*12.3*	*8.2*	*4.1*	*2.1*	*2.1*	*0.0*	*0.0*	*0.0*
70°	2541.5	1200.0	24.6	10.3	6.2	2.1	2.1	2.1	0.0	0.0	0.0
72.5°	1995.9	884.1	20.5	8.2	4.1	2.1	2.1	2.1	0.0	0.0	0.0
75°	1214.3	445.1	18.5	6.2	4.1	4.1	2.1	2.1	2.1	0.0	0.0
77.5°	412.3	139.5	12.3	6.2	4.1	4.1	2.1	2.1	2.1	2.1	2.1
80°	121.0	45.1	10.3	4.1	4.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	63.6	20.5	6.2	4.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	34.9	10.3	4.1	2.1	2.1	2.1	0.0	0.0	2.1	2.1	2.1
87.5°	6.2	4.1	4.1	2.1	2.1	2.1	0.0	0.0	0.0	2.1	2.1
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

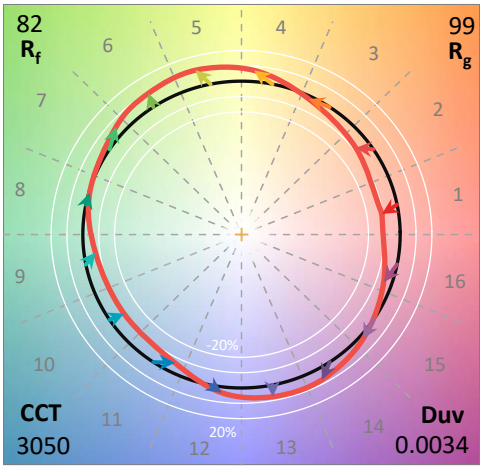
Test Information

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

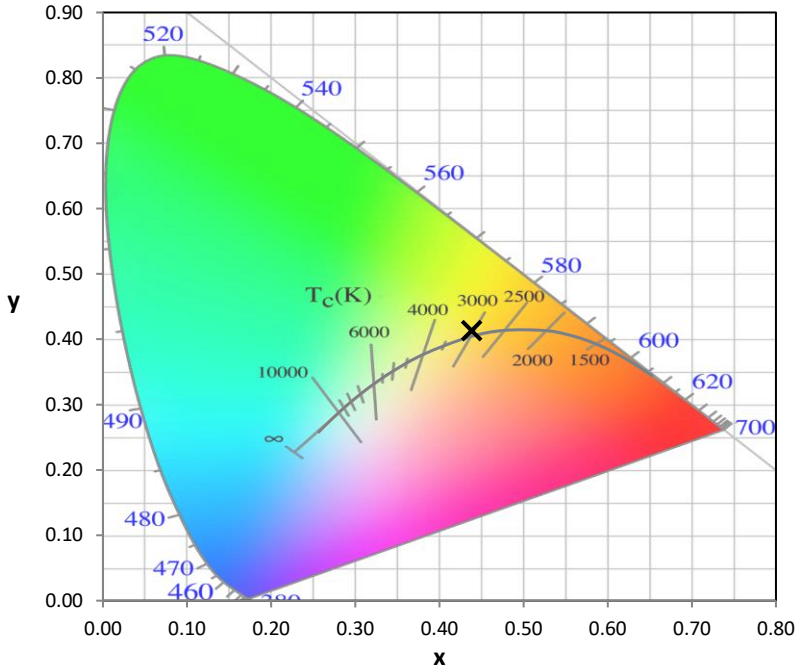
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

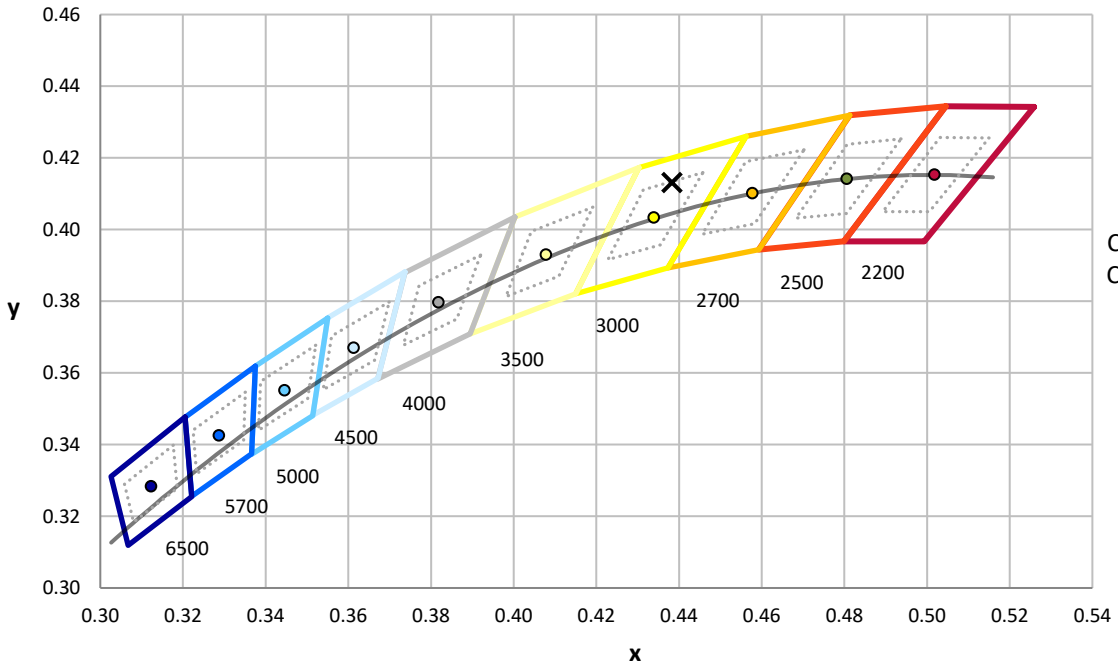
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

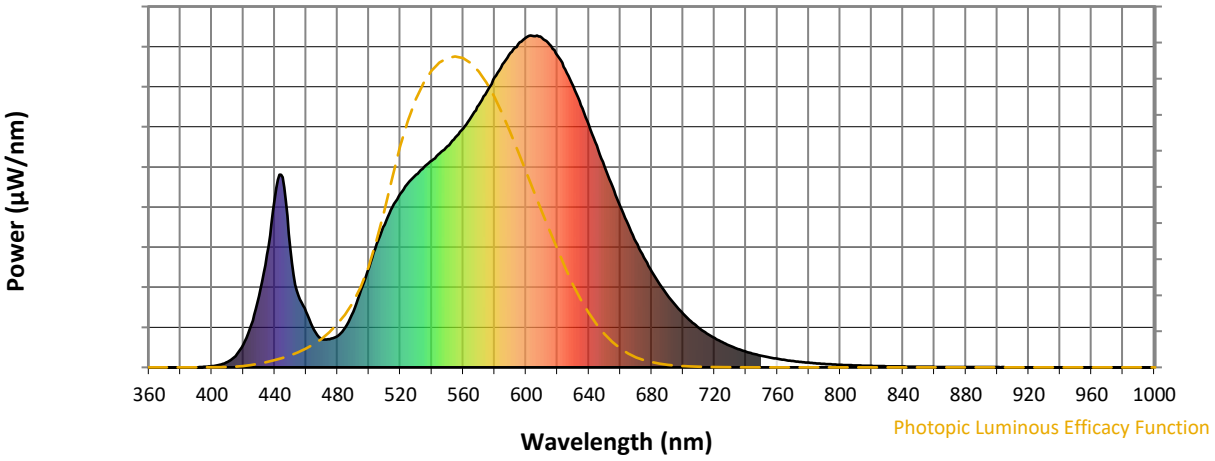


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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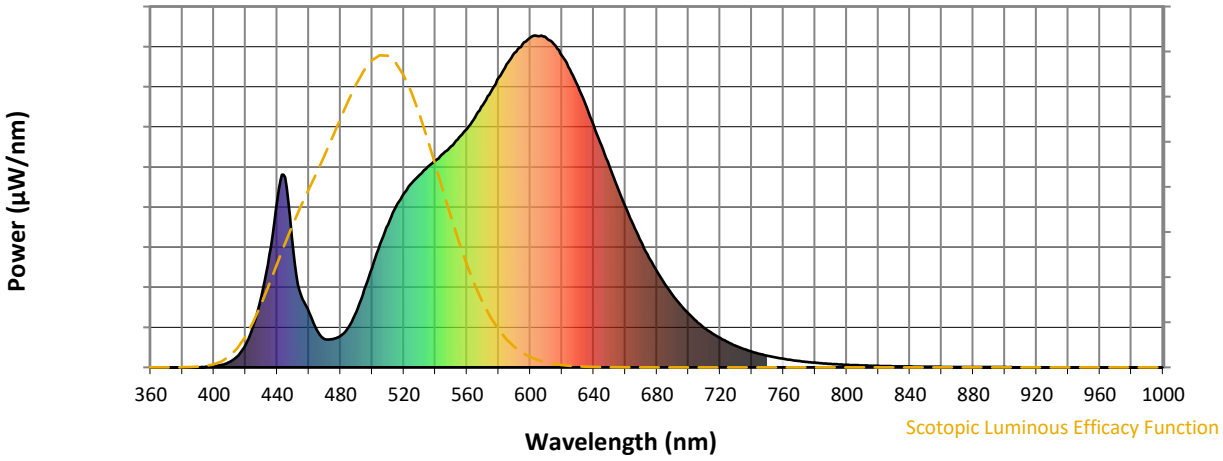
Scotopic Flux vs. Wavelength



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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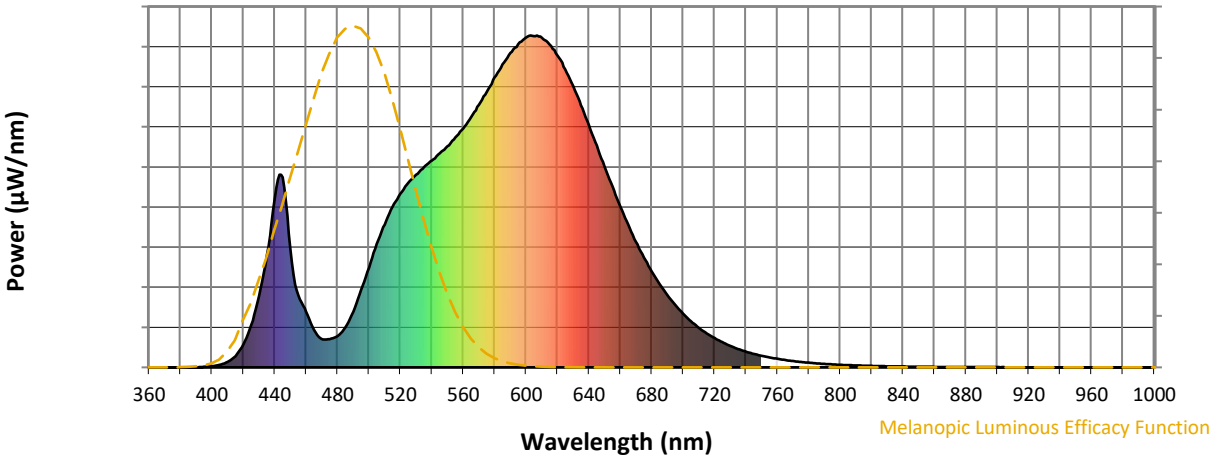
Melanopic Flux vs. Wavelength



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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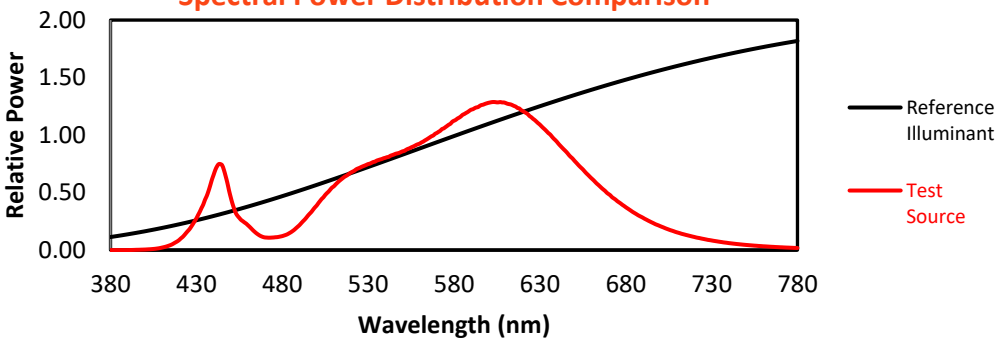
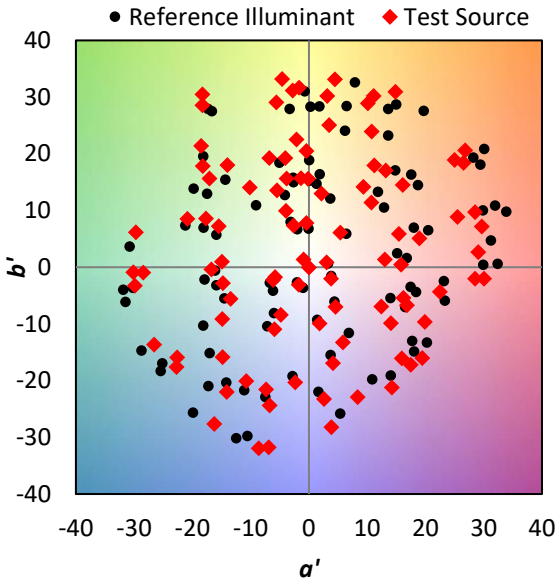
Summary

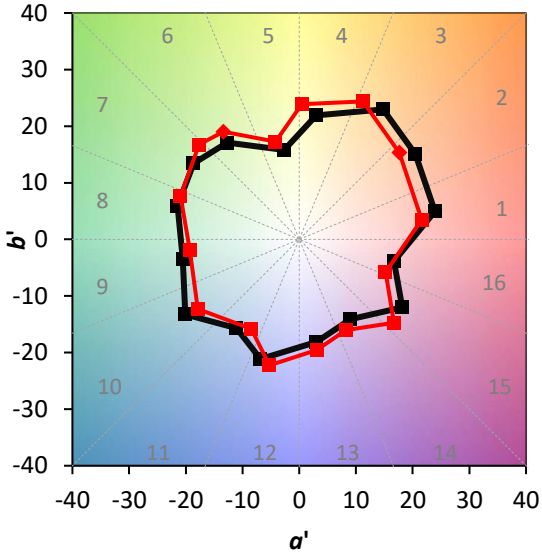
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

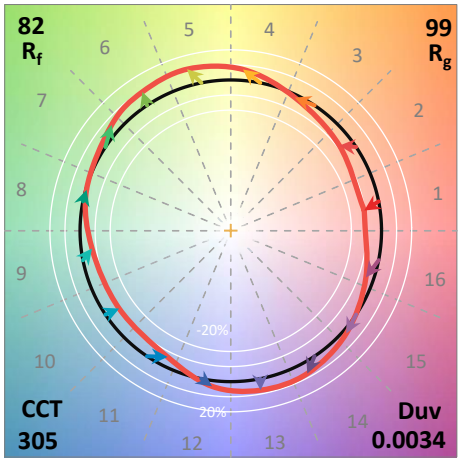
Spectral Power Distribution Comparison

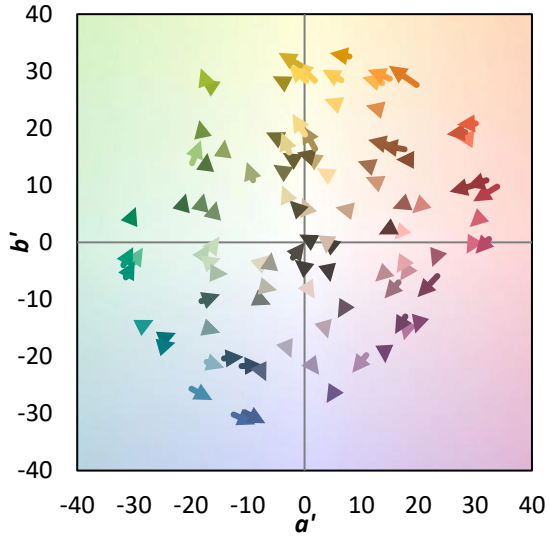


Color Vector Graphics









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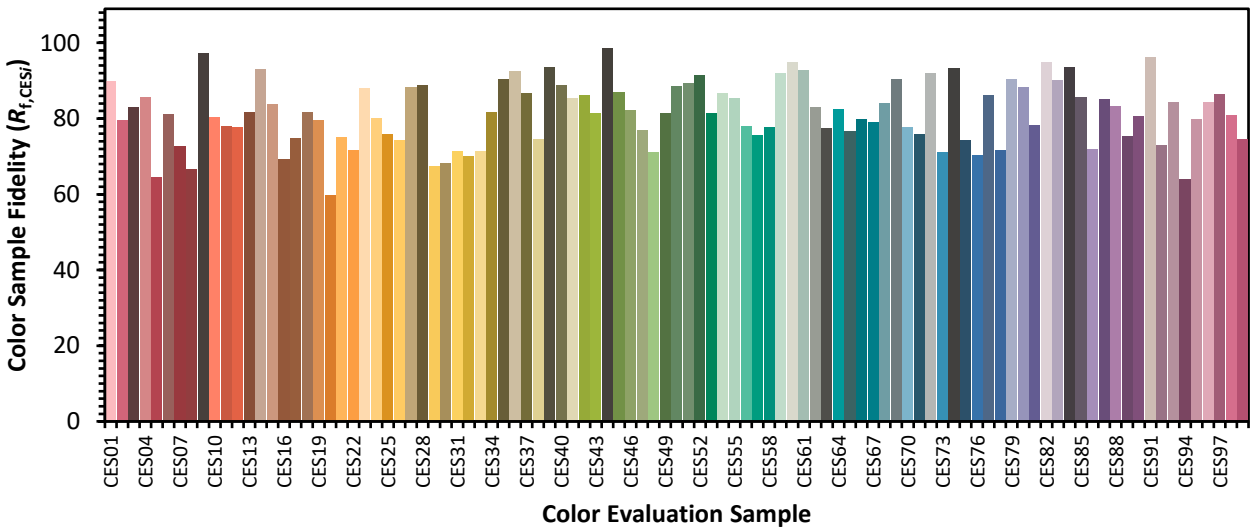
Individual Sample Fidelity Index ($R_{f,i}$)

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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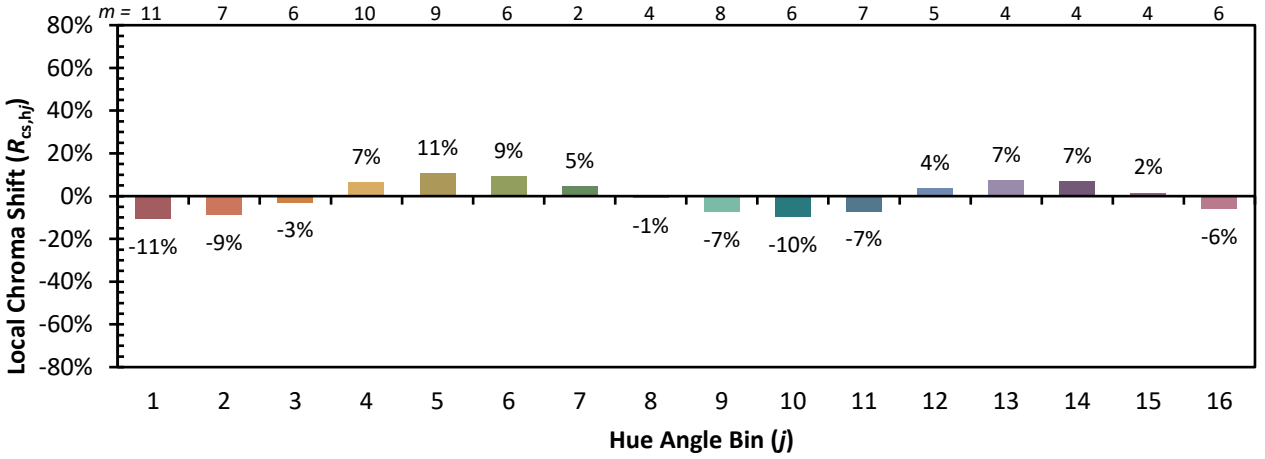
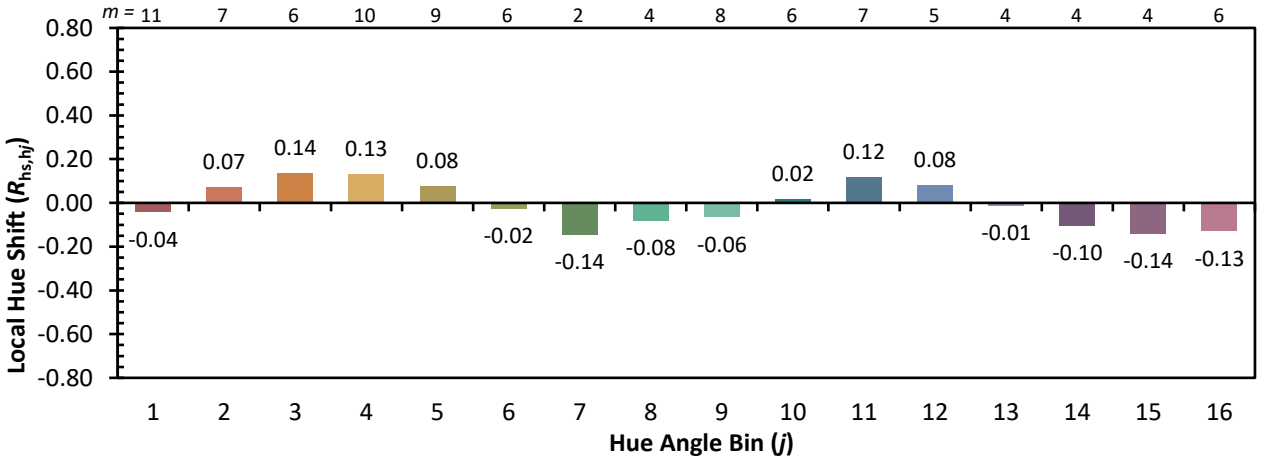
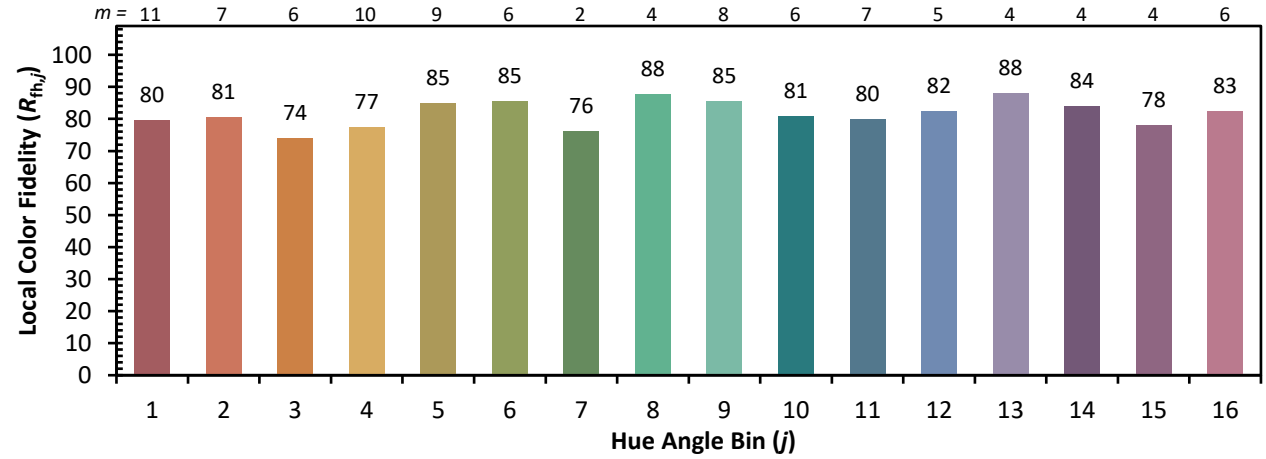
Color Rendition by Hue-Angle Bin







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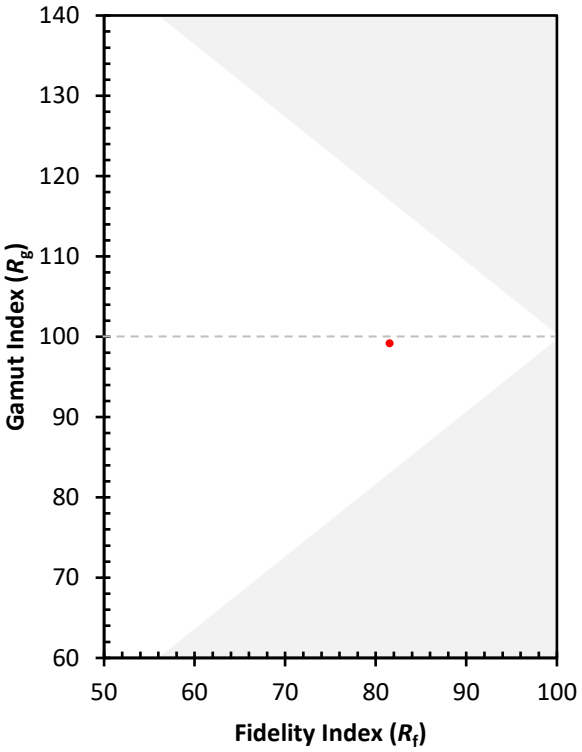
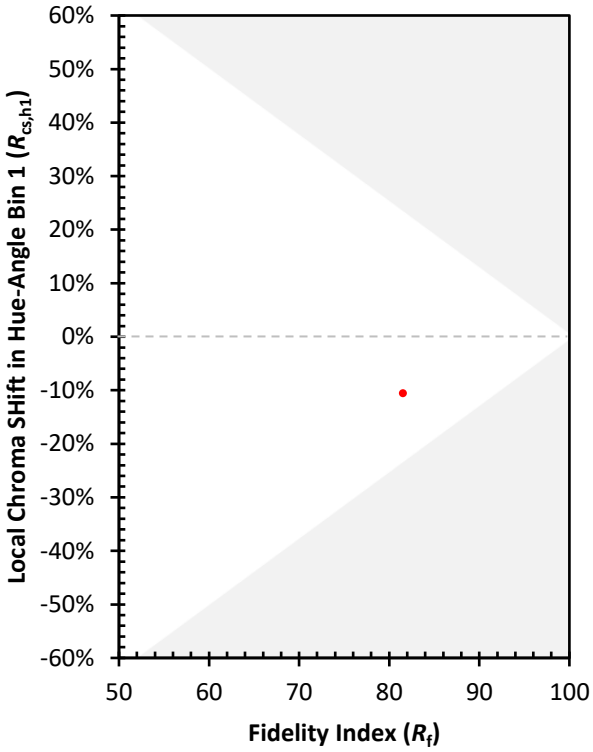
Measure Comparisons





(END OF REPORT)