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: P386738

Luminaire Tested: **GPC-SA2B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

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:	P386738
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA2B-830-U-T4FT-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6731 lumens
Efficiency:	N/A
Efficacy:	79.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	85
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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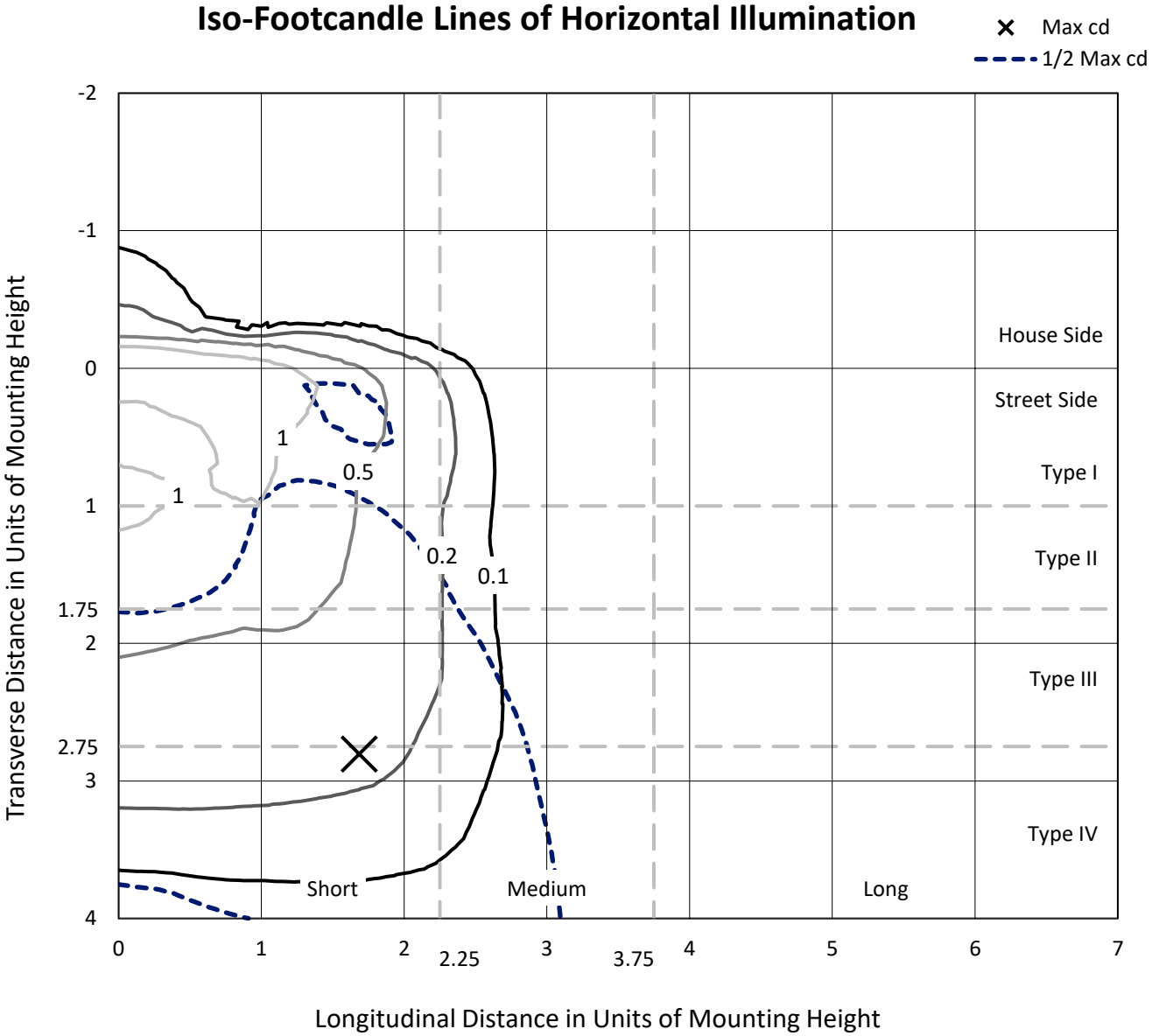
Scaled Data Report

REPORT NUMBER: P386738
CATALOG NUMBER: GPC-SA2B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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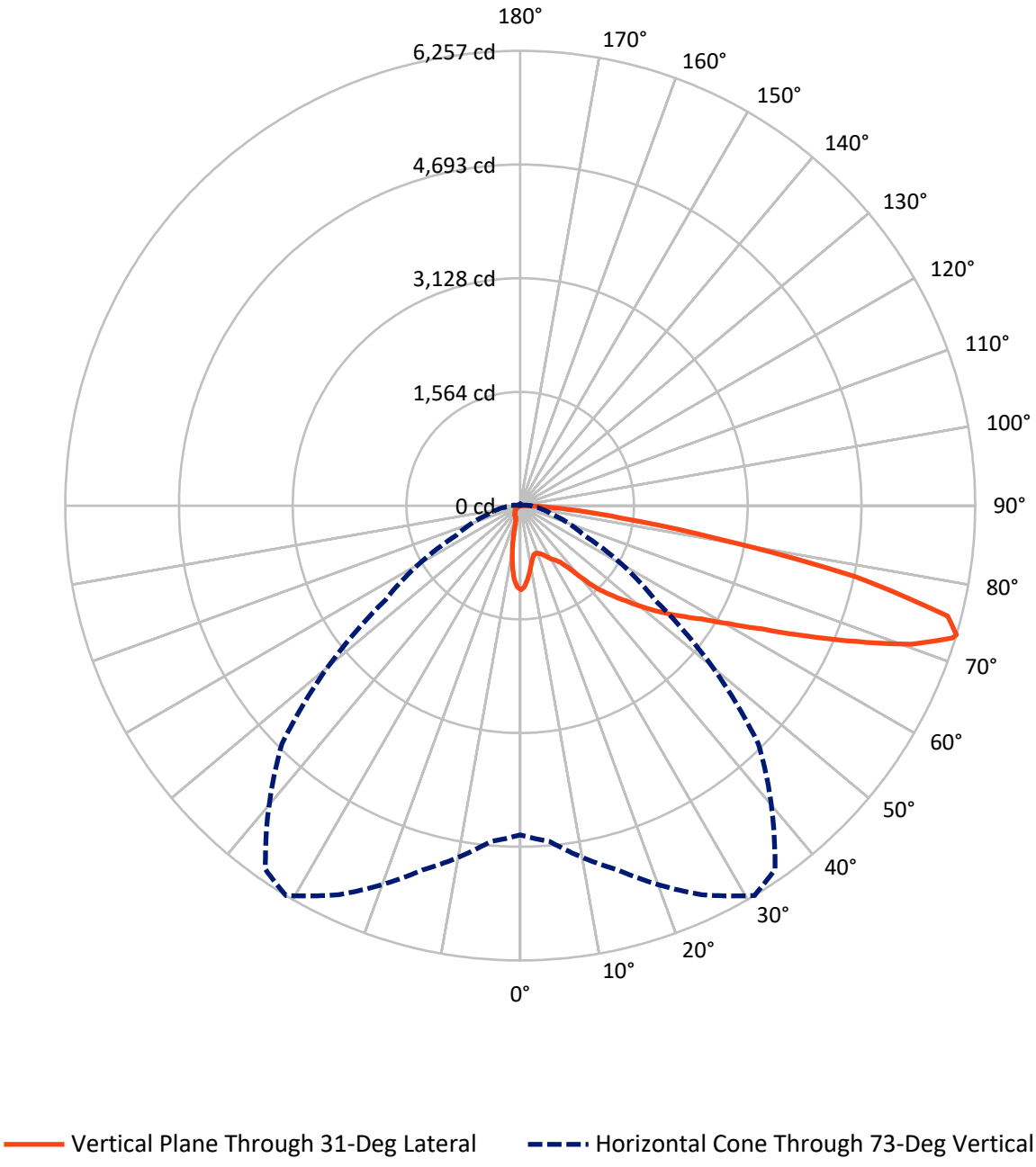
Luminous Intensity Polar Plot



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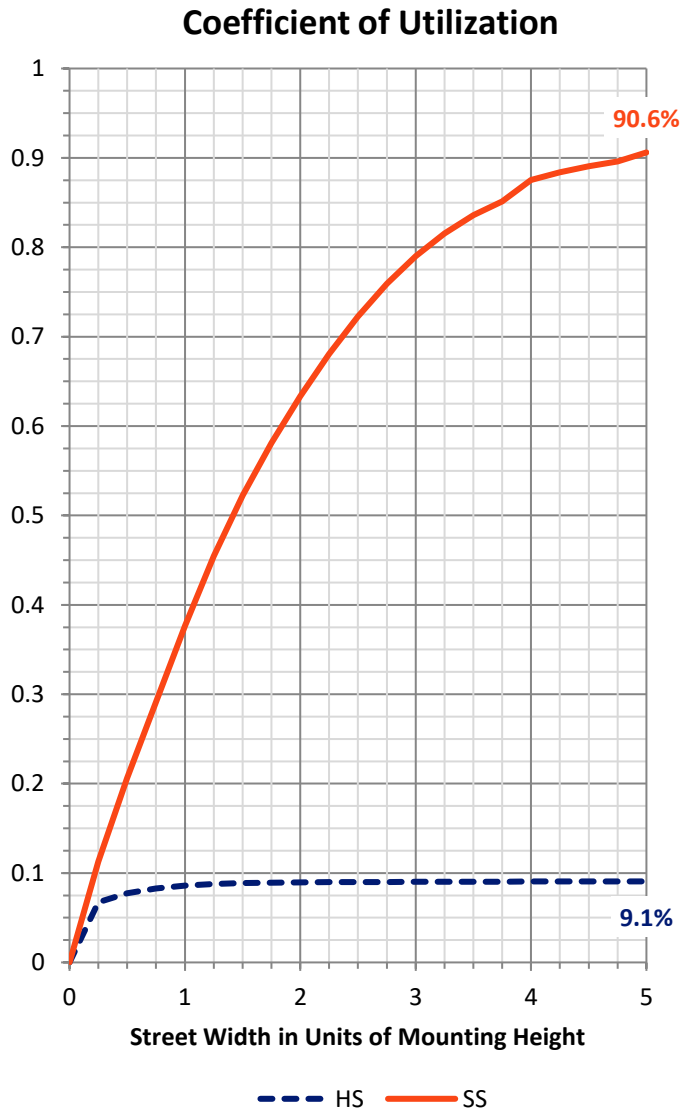
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.5	0.0	613.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	6117.4	0.0	6117.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	6731.0	0.0	6731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.4
10°-20°	208.5	3.1
20°-30°	312.4	4.6
30°-40°	497.0	7.4
40°-50°	887.5	13.2
50°-60°	1377.1	20.5
60°-70°	1830.7	27.2
70°-80°	1377.1	20.5
80°-90°	144.7	2.1
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°	6731.0	100.0
0°-180°	6731.0	100.0



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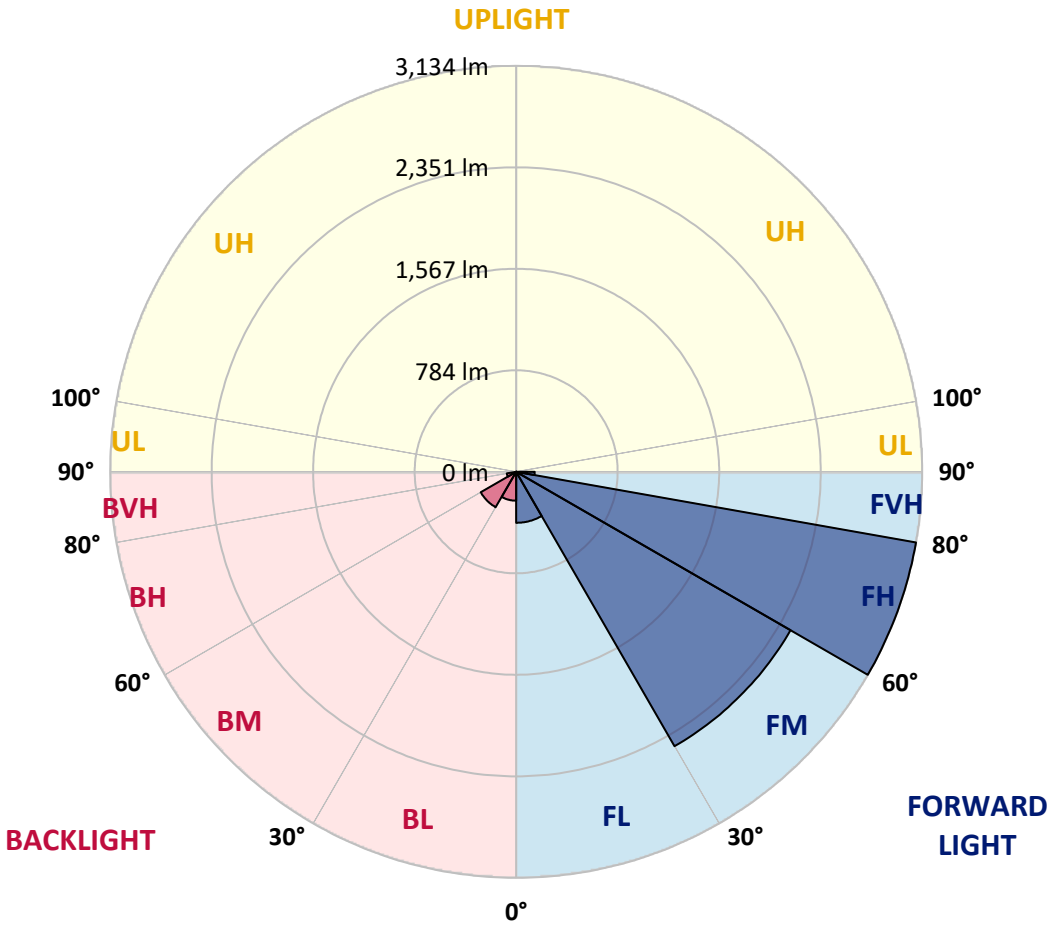
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	393.8	5.9			
FM	(30°-60°)	2445.8	36.3			
FH	(60°-80°)	3134.4	46.6			G2/5000
FVH	(80°-90°)	143.5	2.1			G2/225
BL	(0°-30°)	223.1	3.3	B1/500		
BM	(30°-60°)	315.8	4.7	B1/1000		
BH	(60°-80°)	73.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2
Type IV Short



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Scaled Data Report

REPORT NUMBER: P386738
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1158.1	1158.1	1158.1	1158.1	*1158.1*	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1097.5	1102.1	1107.0	1108.0	*1116.3*	1116.6	1128.4	1137.3	1146.2	1154.8	1157.8
5°	984.8	992.4	1001.3	1010.2	*1027.6*	1034.6	1063.6	1093.2	1121.5	1148.5	1161.7
7.5°	864.6	873.2	885.7	907.8	*927.2*	940.7	986.5	1039.2	1091.9	1141.6	1170.3
10°	754.9	762.8	776.0	799.4	*829.4*	847.8	909.4	982.5	1059.9	1135.4	1183.1
12.5°	685.1	689.4	696.6	721.7	*748.7*	769.4	841.9	932.5	1033.6	1135.0	1203.9
15°	672.3	673.6	667.6	678.8	*699.9*	720.0	793.5	891.9	1013.5	1140.3	1230.9
17.5°	692.7	692.0	672.3	670.9	*687.7*	704.2	769.7	864.0	999.3	1152.5	1265.8
20°	723.6	721.3	687.1	680.8	*698.6*	714.1	768.1	853.4	994.1	1172.9	1308.3
22.5°	764.8	760.9	707.2	700.6	*719.7*	735.8	788.5	863.6	998.7	1200.2	1357.7
25°	815.9	809.9	741.8	734.5	*753.9*	770.1	825.1	892.9	1012.5	1233.5	1420.3
27.5°	873.5	864.9	797.1	778.3	*800.4*	817.2	873.8	937.7	1034.2	1268.8	1497.0
30°	927.8	916.7	855.4	824.4	*851.4*	870.2	926.5	991.1	1069.2	1323.1	1602.1
32.5°	982.5	970.0	907.4	870.5	*894.9*	915.3	980.9	1064.5	1134.7	1406.1	1741.7
35°	1108.3	1095.2	1018.4	957.5	*957.2*	968.7	1057.0	1165.0	1221.3	1521.7	1908.4
37.5°	1320.1	1312.6	1239.4	1123.8	*1092.9*	1080.0	1160.7	1284.9	1345.8	1680.8	2096.5
40°	1552.0	1545.4	1463.4	1358.7	*1311.6*	1280.0	1309.6	1451.9	1521.7	1875.1	2288.5
42.5°	1813.9	1782.6	1636.3	1605.0	*1562.9*	1538.8	1512.2	1657.7	1737.8	2086.6	2478.9
45°	2051.7	1999.0	1809.3	1761.8	*1752.3*	1758.2	1773.0	1934.4	1980.9	2337.9	2668.6
47.5°	2193.3	2151.8	2006.2	1960.8	*1958.1*	1997.3	2109.3	2247.0	2223.0	2556.9	2835.6
50°	2328.0	2290.5	2169.6	2180.8	*2193.0*	2246.3	2491.1	2568.5	2444.0	2755.6	2988.7
52.5°	2437.0	2379.7	2316.5	2379.4	*2439.4*	2525.3	2885.0	2857.0	2600.7	2913.7	3119.8
55°	2500.0	2473.9	2504.6	2567.8	*2680.5*	2820.1	3256.9	3097.1	2715.4	3057.9	3207.1
57.5°	2730.5	2679.5	2740.4	2795.1	*2942.0*	3137.3	3575.4	3276.0	2798.0	3147.2	3227.2
60°	3009.5	2968.3	3004.2	3095.1	*3293.4*	3523.0	3873.1	3421.9	2841.2	3204.5	3175.2
62.5°	3453.5	3399.1	3376.8	3478.5	*3741.4*	3992.0	4099.1	3523.0	2831.6	3179.1	2996.7
65°	4048.3	3992.0	3891.9	3984.1	*4318.4*	4495.3	4351.7	3544.4	2765.8	2973.9	2545.4
67.5°	4657.7	4616.8	4531.2	4686.7	*4988.4*	5045.4	4618.8	3492.4	2553.6	2411.4	1798.4
70°	5060.2	5042.7	5098.4	5442.3	*5711.4*	5694.9	4863.9	3212.7	1990.4	1482.8	889.6
72.5°	4770.0	4853.7	5264.7	5888.2	*6217.0*	6082.6	4738.1	2467.0	1137.7	570.5	257.2
73°	*4529.6*	*4636.6*	*5190.0*	*5905.0*	*6256.8*	*6109.6*	*4632.3*	*2264.5*	*969.7*	*450.3*	*195.0*
75°	3151.1	3282.6	4296.7	5499.6	*6070.4*	5821.0	3861.3	1386.0	449.3	199.6	78.7
77.5°	1529.9	1627.1	2365.9	3973.6	*4720.9*	4548.0	2403.8	516.5	202.9	124.8	36.2
80°	571.1	635.0	1027.0	2022.4	*2728.2*	2799.7	1057.3	195.3	135.0	100.5	18.4
82.5°	149.5	166.7	378.8	901.8	*1398.2*	1463.4	333.3	98.5	98.8	82.7	11.2
85°	47.8	54.7	118.2	404.8	*658.7*	578.4	87.0	47.8	71.8	61.6	6.3
87.5°	5.9	7.6	37.5	95.2	*145.3*	80.7	13.5	14.2	30.6	34.3	3.6
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: P386738
CATALOG NUMBER: GPC-SA2B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1	1158.1
2.5°	1160.7	1159.1	1159.4	1150.8	1145.2	1134.0	1122.5	1117.2	1111.6	1109.3	1111.6
5°	1166.6	1163.7	1155.1	1128.8	1100.8	1064.5	1030.6	1004.9	972.6	963.8	973.0
7.5°	1175.9	1169.9	1144.9	1091.2	1029.0	959.8	882.1	825.4	779.0	749.0	759.9
10°	1189.4	1178.2	1127.8	1036.5	925.2	802.7	692.3	606.4	545.4	520.4	519.4
12.5°	1212.1	1191.0	1106.7	965.4	798.4	635.0	490.4	397.2	347.8	315.9	315.2
15°	1237.1	1206.2	1080.0	880.1	650.8	454.9	315.9	245.1	213.1	202.9	201.6
17.5°	1267.8	1223.6	1045.4	775.0	496.4	301.4	206.2	185.8	184.4	183.5	183.5
20°	1306.3	1244.4	1001.0	654.8	352.1	201.2	175.2	176.5	177.2	175.9	176.2
22.5°	1351.1	1265.5	947.9	525.7	238.1	168.3	167.7	169.3	170.0	169.3	169.6
25°	1403.1	1289.8	883.4	390.3	171.9	159.7	161.4	163.7	165.3	165.3	165.3
27.5°	1467.7	1319.5	805.7	272.4	148.5	150.9	155.5	159.7	162.1	162.7	162.7
30°	1551.7	1356.4	712.4	186.8	135.0	139.0	147.6	155.8	160.1	160.7	161.1
32.5°	1657.7	1397.9	604.4	138.0	123.5	126.5	135.7	149.5	157.8	159.1	159.1
35°	1779.3	1446.0	488.1	120.2	115.3	116.3	123.5	139.3	153.8	157.4	157.8
37.5°	1912.4	1493.4	371.2	112.3	108.4	108.4	113.6	127.1	144.3	155.5	156.8
40°	2036.5	1522.0	260.2	106.1	102.1	102.1	106.7	116.6	132.7	149.5	153.2
42.5°	2151.1	1531.9	181.2	100.1	96.2	97.2	101.1	109.0	121.2	138.0	141.3
45°	2269.1	1530.3	132.1	93.2	90.2	93.2	96.2	102.1	111.0	120.6	121.2
47.5°	2358.0	1516.4	104.7	86.6	84.6	88.6	91.2	95.2	100.1	99.5	99.5
50°	2441.3	1482.8	84.3	77.7	79.0	83.7	85.0	86.3	86.6	80.4	79.7
52.5°	2504.6	1430.5	67.5	68.2	73.5	78.1	76.7	74.8	71.5	63.9	62.6
55°	2525.6	1329.7	53.0	56.3	65.2	71.1	66.2	61.9	55.7	49.4	48.1
57.5°	2487.4	1199.6	43.1	43.8	55.0	59.9	54.3	49.4	42.5	37.2	36.2
60°	2406.4	1055.0	35.6	32.9	42.5	46.8	43.1	38.2	31.9	28.0	27.7
62.5°	2245.7	900.8	29.3	25.7	32.3	35.9	33.6	30.0	24.7	22.1	21.7
65°	1907.7	720.7	23.7	20.8	25.0	28.0	26.0	23.4	19.4	17.5	17.1
67.5°	1331.7	487.1	19.4	17.1	19.8	22.1	20.4	19.1	15.5	15.2	15.5
70°	642.3	234.8	16.1	13.8	15.5	17.1	16.5	15.5	14.8	17.1	19.8
72.5°	184.1	78.7	12.8	11.5	12.5	13.5	14.2	13.8	16.1	20.8	24.0
73°	*141.6*	*63.6*	*12.2*	*10.9*	*11.9*	*13.2*	*13.8*	*13.5*	*16.5*	*21.1*	*24.0*
75°	60.6	30.6	9.2	8.9	9.9	11.5	12.2	12.2	16.5	21.4	23.1
77.5°	27.3	16.5	5.9	6.9	8.6	9.2	10.2	10.2	13.2	16.5	16.5
80°	15.5	8.9	4.6	5.3	6.3	6.3	6.3	5.6	5.9	6.6	7.2
82.5°	9.9	5.9	3.6	4.3	4.0	3.3	2.6	2.6	2.3	2.6	3.3
85°	5.6	3.3	3.3	2.6	1.6	1.3	1.6	1.3	0.3	0.0	0.3
87.5°	3.3	2.0	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

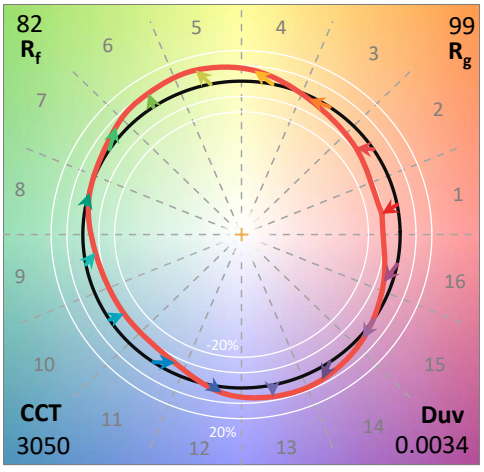
Test Information

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

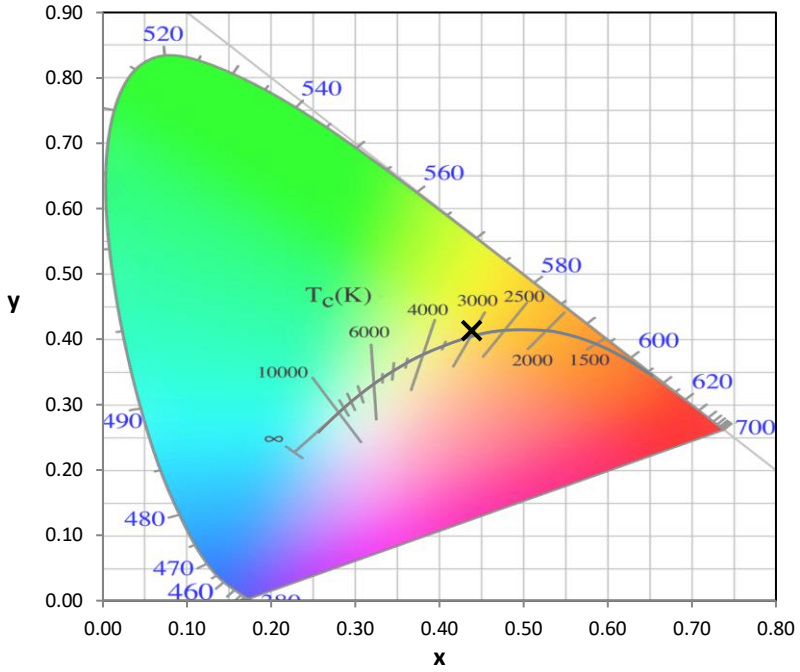
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

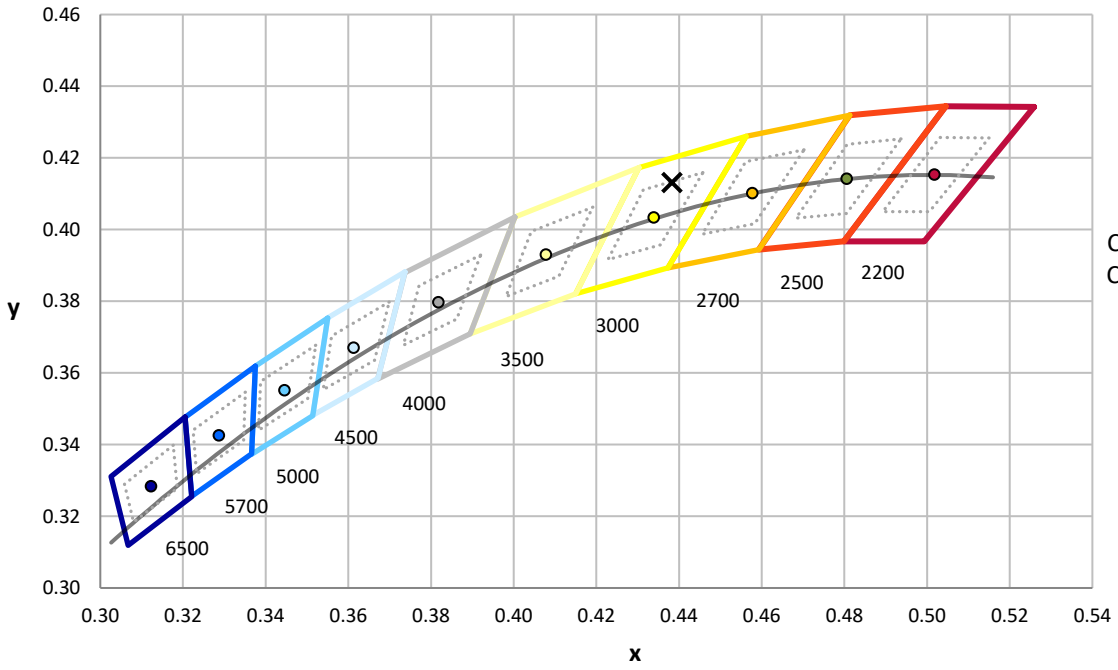
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

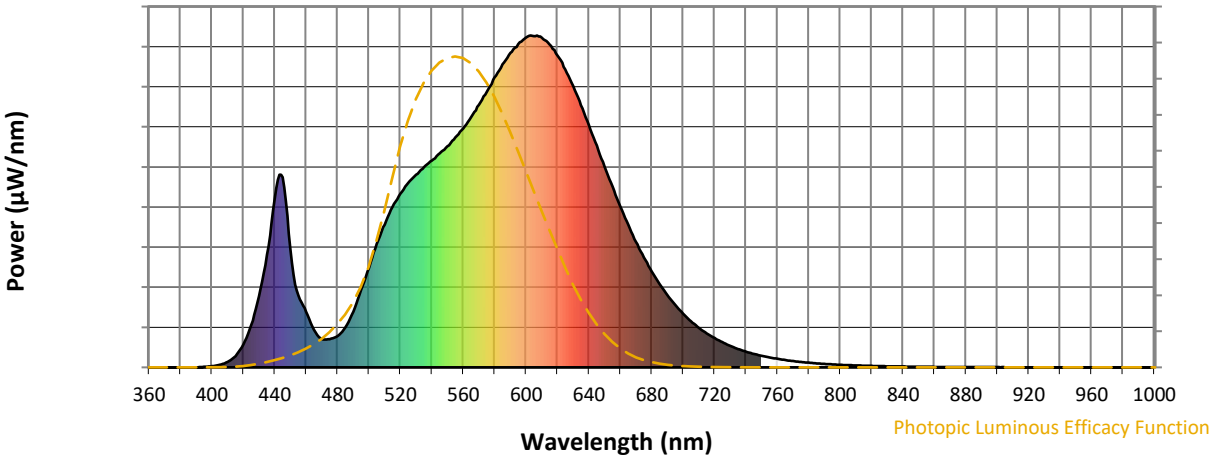


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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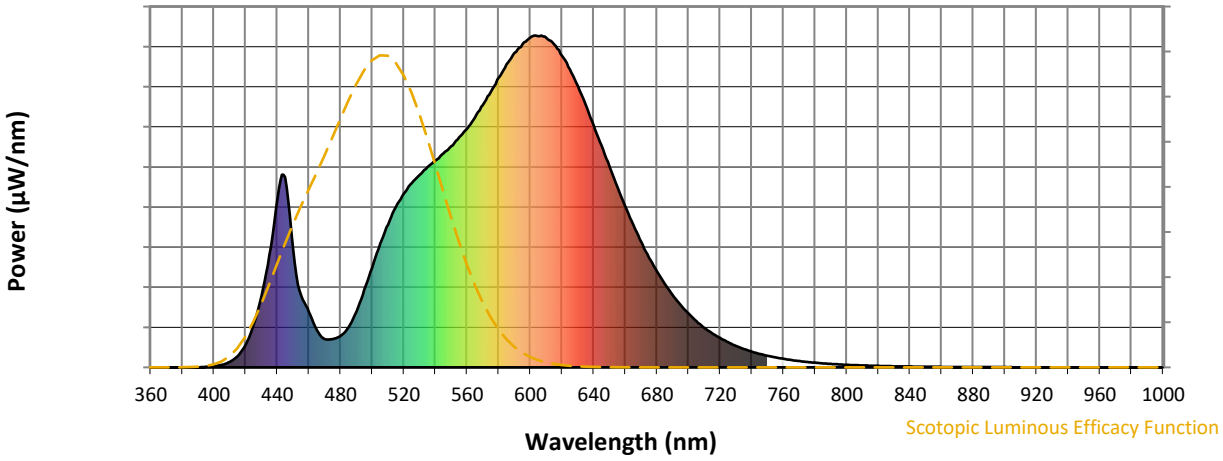
Scotopic Flux vs. Wavelength



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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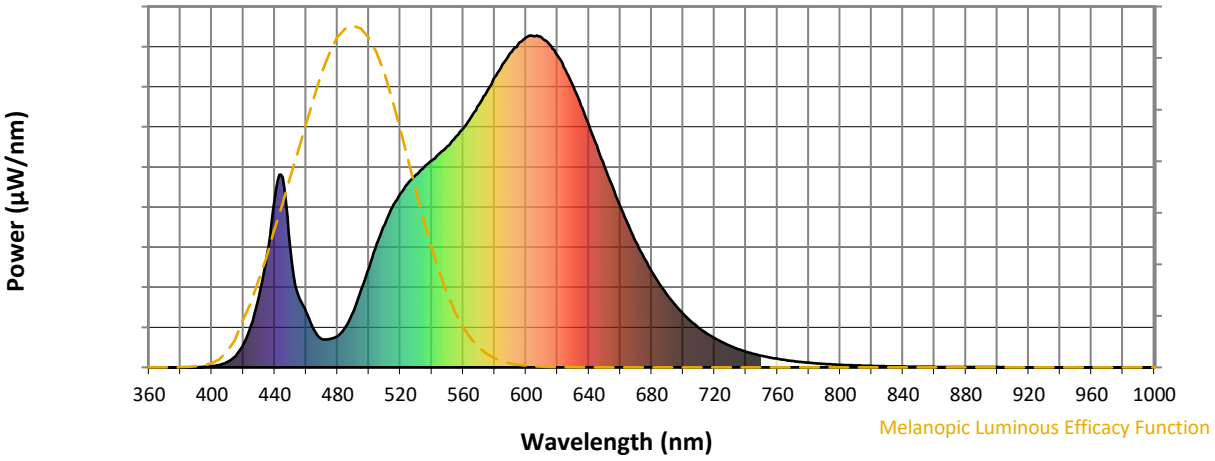
Melanopic Flux vs. Wavelength



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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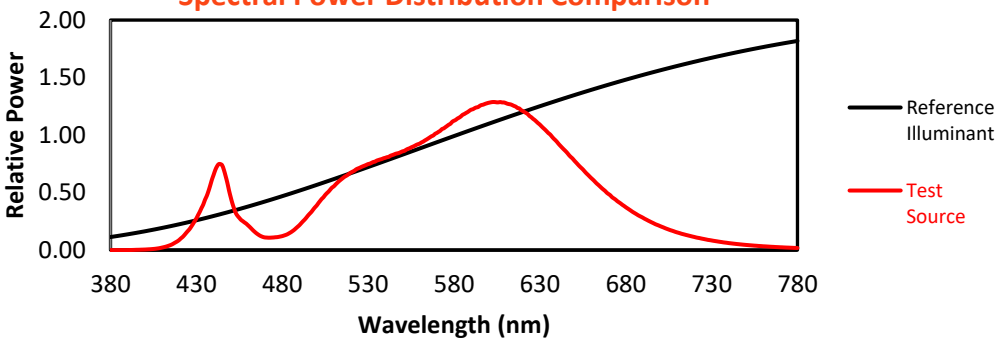
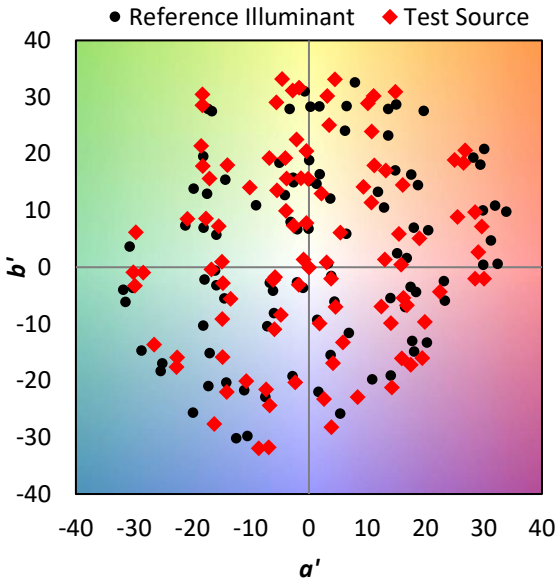
Summary

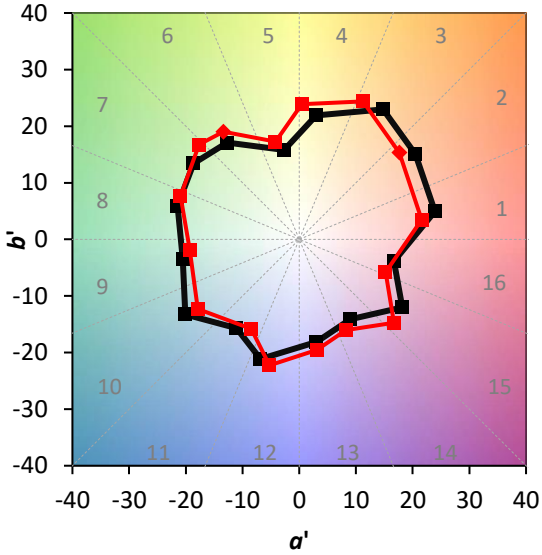
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

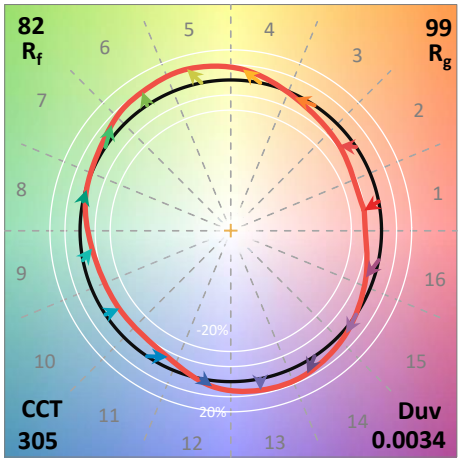
Spectral Power Distribution Comparison

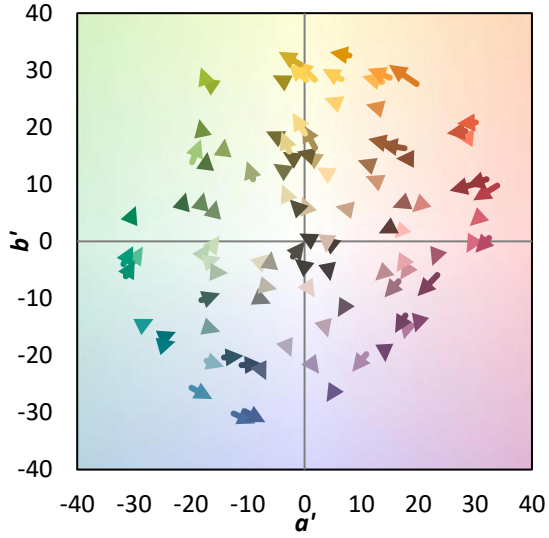


Color Vector Graphics









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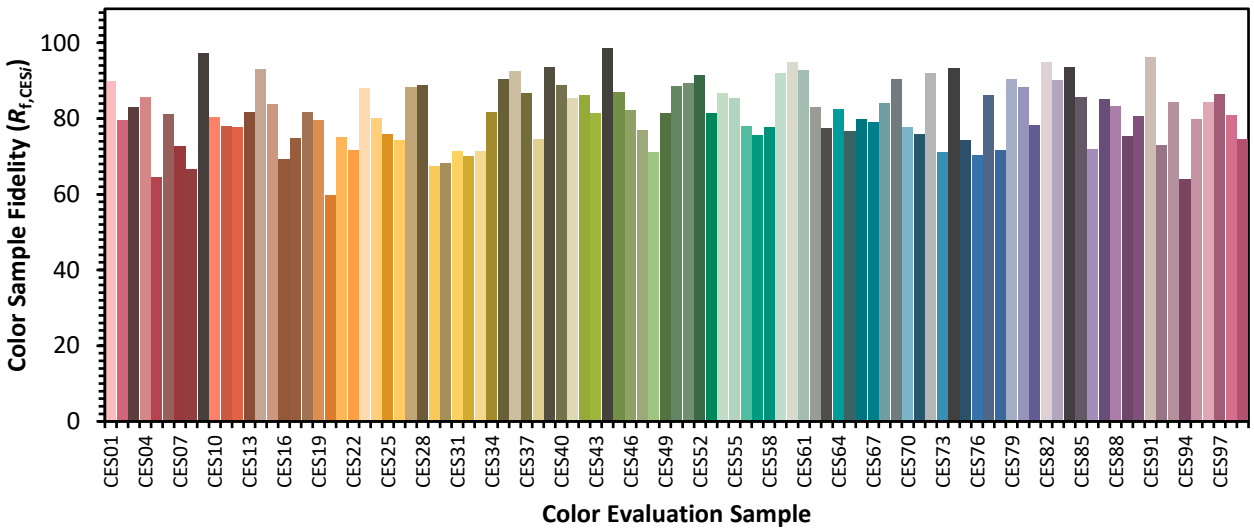
Individual Sample Fidelity Index ($R_{f,i}$)

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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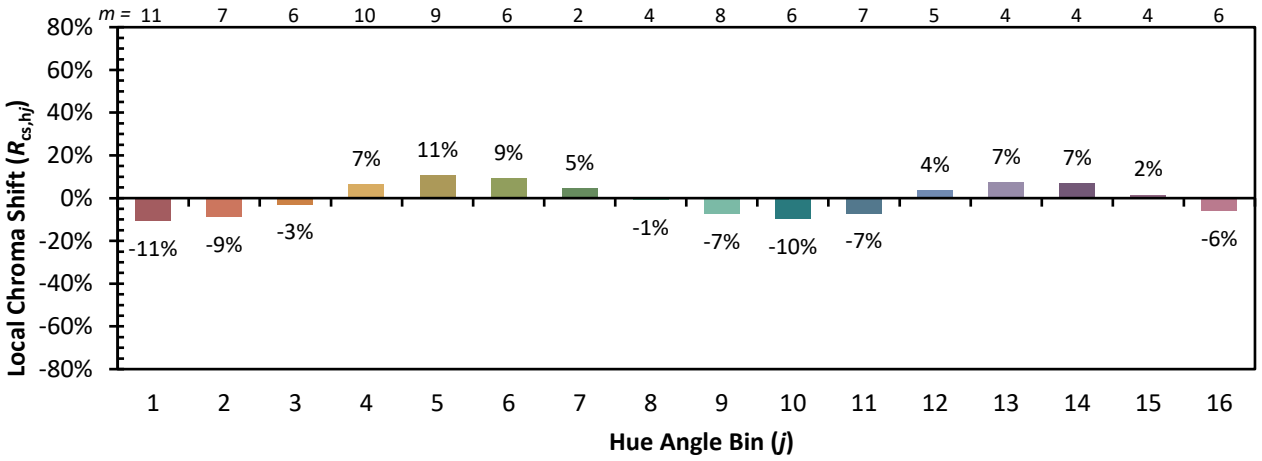
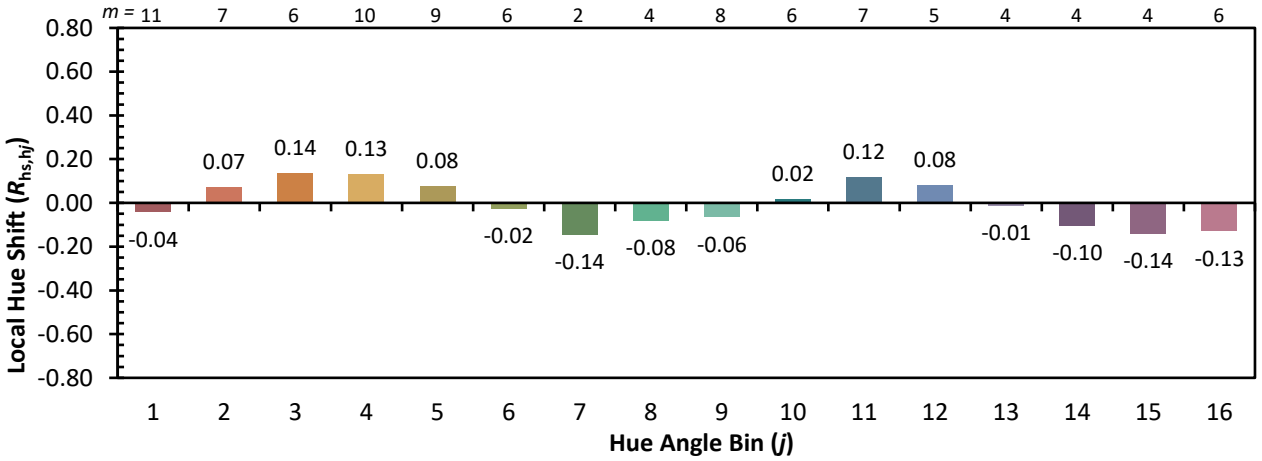
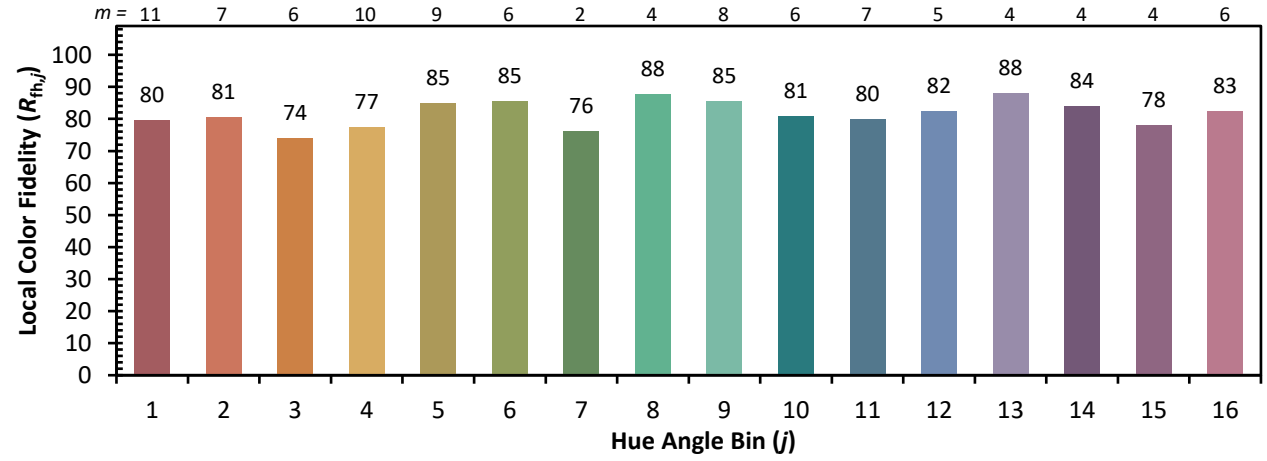
Color Rendition by Hue-Angle Bin







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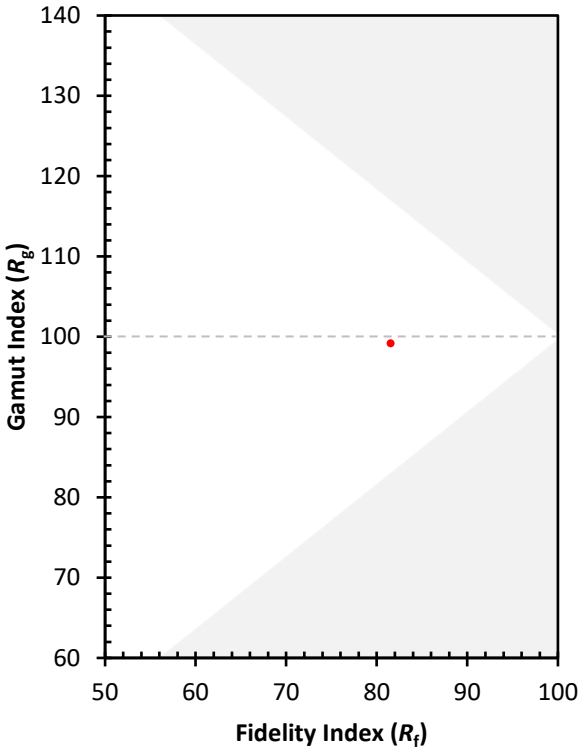
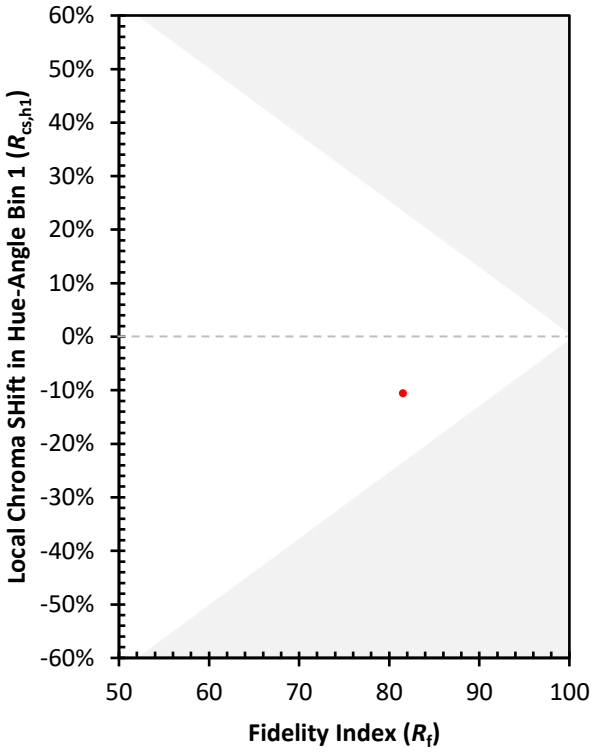
Measure Comparisons





(END OF REPORT)