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: P386283

Luminaire Tested: **GPC-SA1D-830-U-T2**

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:	P386283
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA1D-830-U-T2
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6461 lumens
Efficiency:	N/A
Efficacy:	97.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
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: P386283
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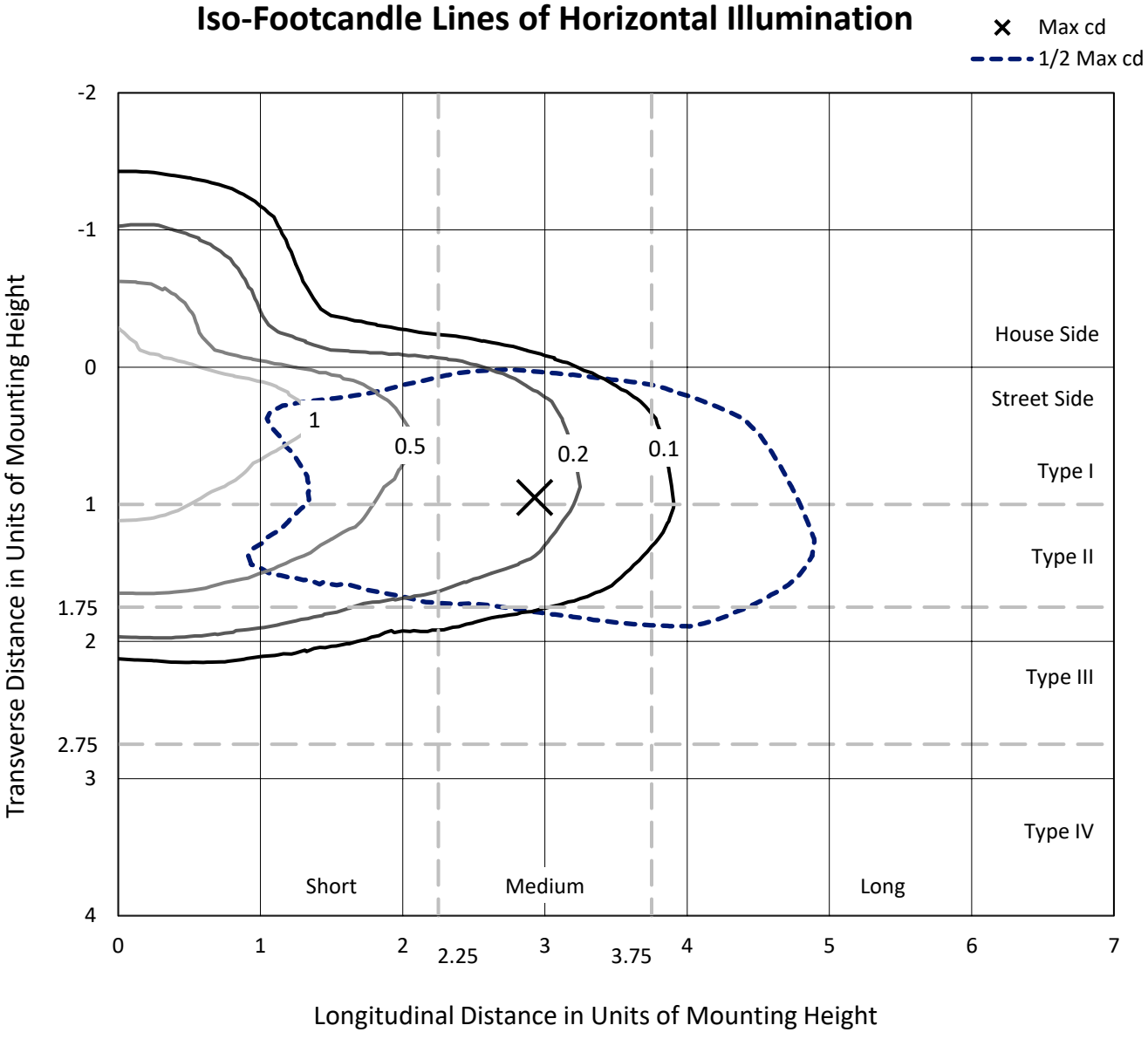
Iso-Footcandle Lines of Horizontal Illumination



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

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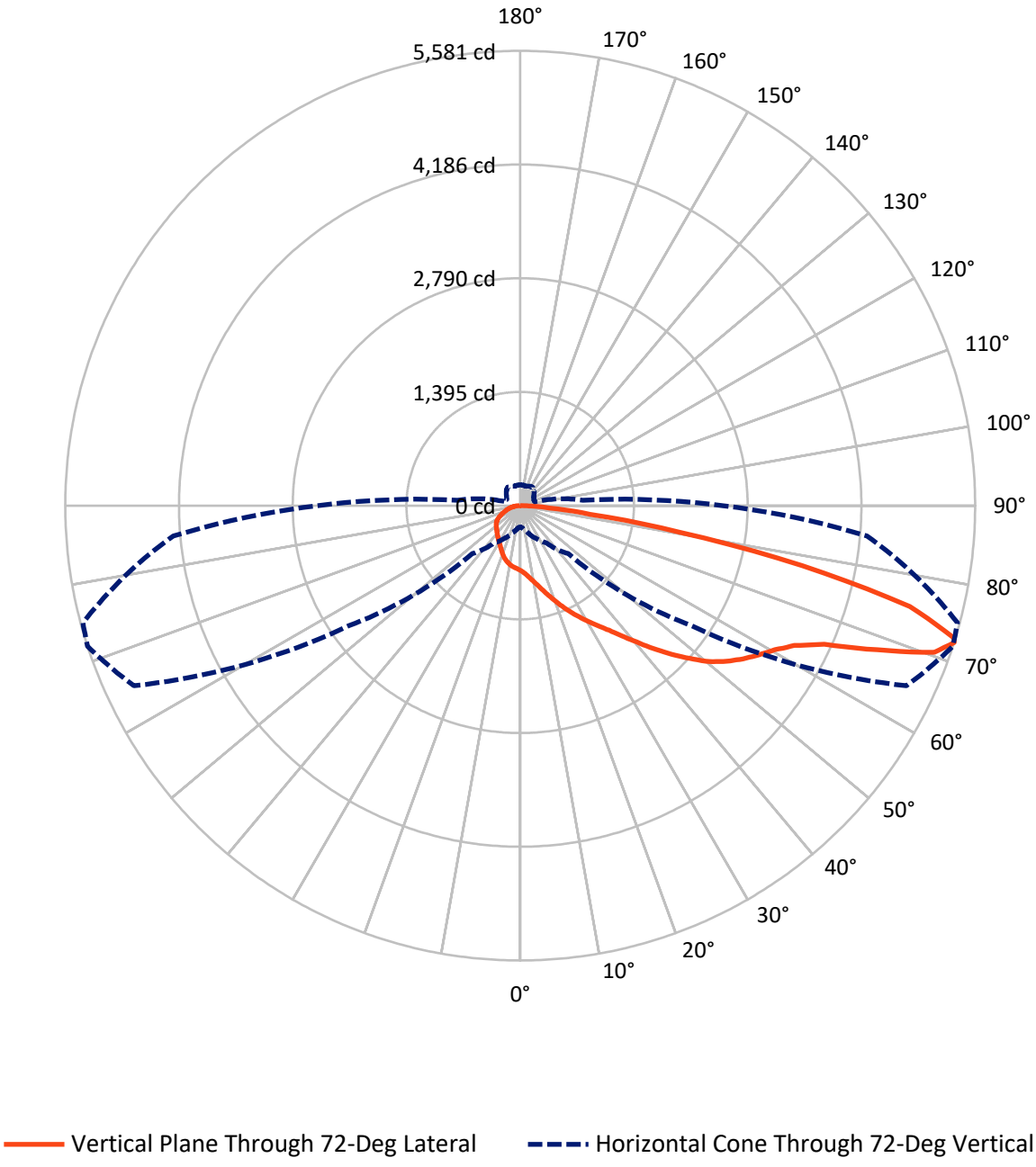
Luminous Intensity Polar Plot



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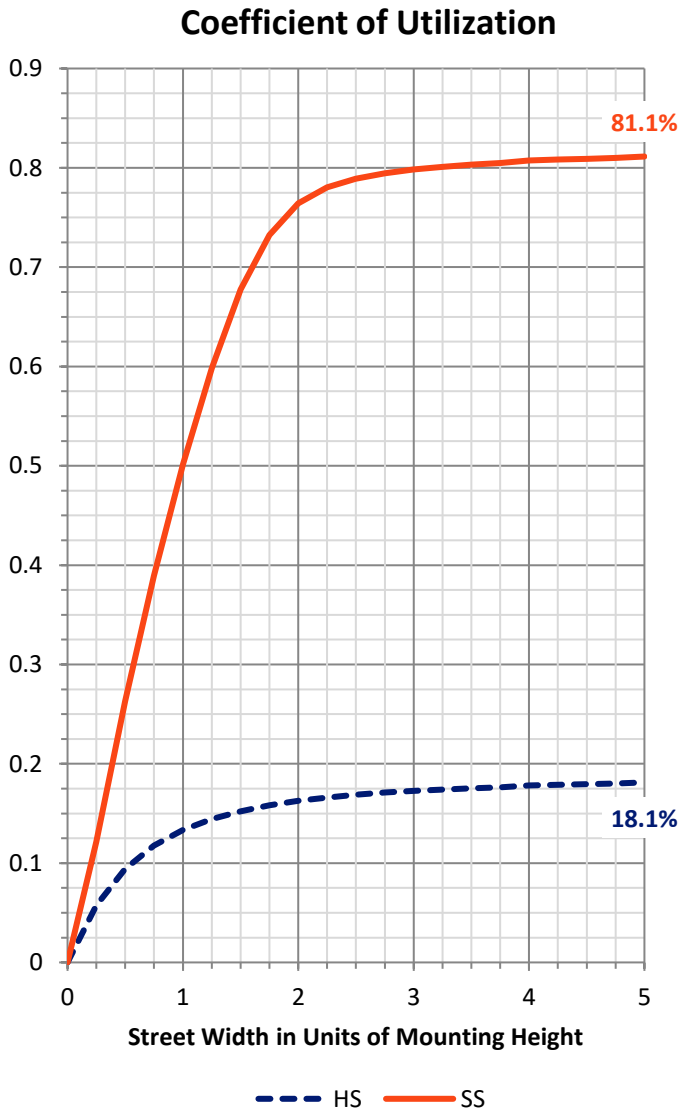
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.6	0.0	1198.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5262.4	0.0	5262.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	6461.0	0.0	6461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.2
10°-20°	257.4	4.0
20°-30°	451.0	7.0
30°-40°	668.7	10.4
40°-50°	978.1	15.1
50°-60°	1345.8	20.8
60°-70°	1498.3	23.2
70°-80°	1015.2	15.7
80°-90°	166.9	2.6
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°	6461.0	100.0
0°-180°	6461.0	100.0



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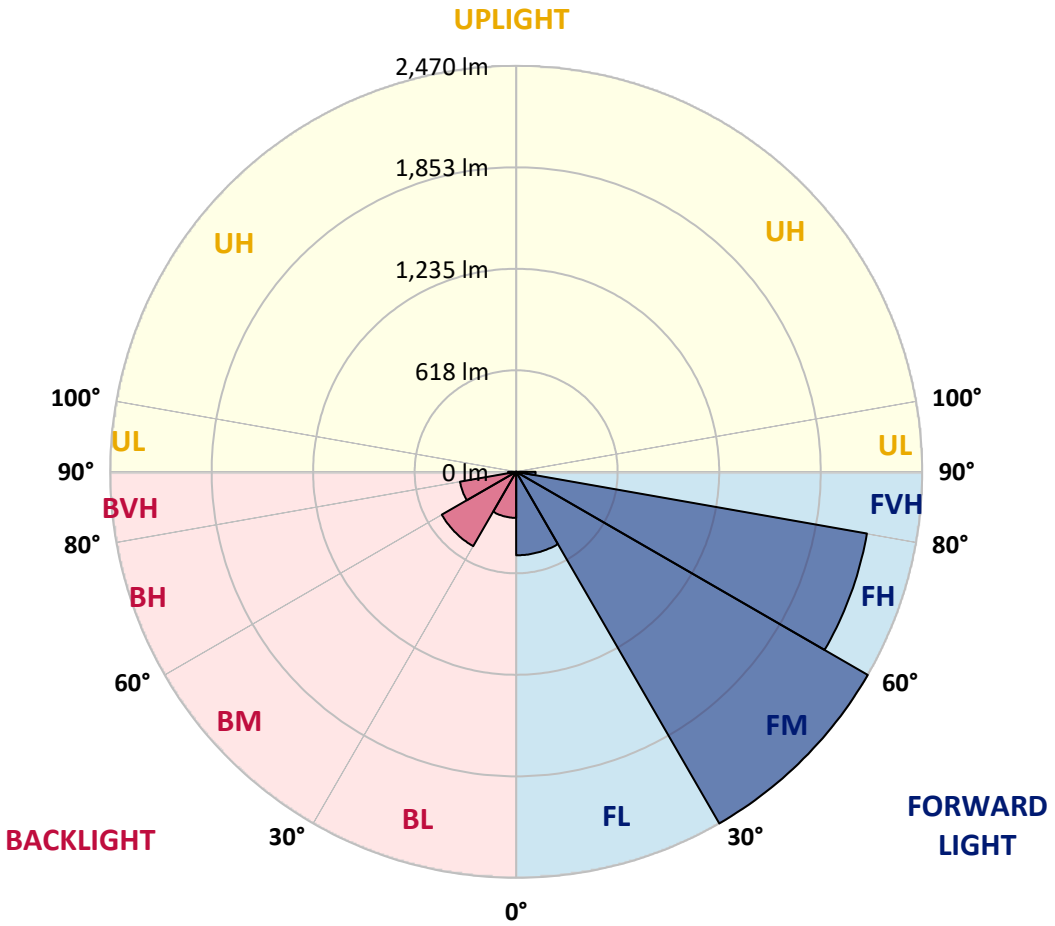
CATALOG NUMBER: GPC-SA1D-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	507.9	7.9			
FM	(30°-60°)	2470.1	38.2			
FH	(60°-80°)	2166.7	33.5			G2/5000
FVH	(80°-90°)	117.7	1.8			G2/225
BL	(0°-30°)	280.2	4.3	B1/500		
BM	(30°-60°)	522.5	8.1	B1/1000		
BH	(60°-80°)	346.8	5.4	B1/500		G1/500
BVH	(80°-90°)	49.2	0.8			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 III Medium



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Scaled Data Report

REPORT NUMBER: P386283
CATALOG NUMBER: GPC-SA1D-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	794.9	794.9	794.9	794.9	794.9	794.9	794.9	794.9	*794.9*	794.9	794.9
2.5°	878.1	876.7	872.1	872.1	863.2	855.6	841.4	831.8	*820.5*	816.5	803.1
5°	963.1	963.5	957.7	953.7	940.6	924.6	900.3	878.3	*856.3*	847.4	820.0
7.5°	1034.5	1033.6	1032.0	1028.7	1016.4	1000.0	967.3	934.6	*902.1*	888.8	841.6
10°	1080.3	1082.3	1083.6	1085.2	1080.1	1068.3	1037.4	997.5	*955.0*	936.8	867.4
12.5°	1103.4	1107.0	1113.2	1123.9	1132.4	1131.0	1108.5	1066.3	*1015.8*	992.9	899.7
15°	1117.0	1121.7	1131.5	1150.6	1174.4	1188.0	1182.0	1143.7	*1087.4*	1059.2	939.0
17.5°	1125.5	1129.2	1144.4	1169.9	1205.3	1241.4	1257.2	1225.1	*1168.4*	1136.1	984.2
20°	1131.2	1134.1	1153.0	1183.1	1228.9	1286.3	1330.3	1322.3	*1257.6*	1215.8	1031.4
22.5°	1144.1	1146.6	1164.6	1194.9	1245.6	1319.7	1400.9	1412.9	*1351.7*	1304.3	1081.9
25°	1180.2	1180.2	1195.3	1216.4	1264.1	1348.6	1460.5	1513.7	*1447.8*	1392.6	1128.6
27.5°	1248.9	1248.3	1253.8	1261.2	1297.2	1378.0	1513.7	1602.6	*1547.5*	1487.2	1174.0
30°	1330.3	1334.8	1335.5	1331.9	1348.8	1414.7	1562.8	1696.5	*1647.8*	1582.8	1220.4
32.5°	1435.1	1438.0	1434.7	1422.9	1420.4	1466.7	1611.1	1794.9	*1756.4*	1682.7	1262.9
35°	1568.2	1562.6	1552.1	1528.1	1505.2	1536.4	1666.3	1893.2	*1878.3*	1803.5	1321.4
37.5°	1710.8	1711.0	1698.1	1643.6	1612.0	1625.3	1742.4	2004.6	*2025.8*	1947.2	1396.4
40°	1825.1	1831.1	1839.1	1767.5	1726.6	1745.0	1839.1	2133.9	*2200.2*	2117.7	1494.1
42.5°	1905.0	1911.9	1934.6	1889.6	1847.1	1881.4	1953.0	2271.8	*2396.0*	2314.3	1608.4
45°	1989.5	1993.3	2009.3	1990.0	1962.8	2040.0	2081.4	2414.6	*2603.1*	2523.9	1736.3
47.5°	2078.5	2082.5	2099.0	2086.1	2071.8	2188.2	2215.3	2549.2	*2801.5*	2754.1	1872.9
50°	2188.4	2191.1	2206.6	2183.3	2187.7	2299.9	2335.0	2672.7	*3009.5*	2961.0	2010.0
52.5°	2338.3	2339.0	2360.6	2339.5	2318.5	2381.7	2438.0	2789.1	*3172.6*	3149.7	2147.0
55°	2455.8	2462.9	2533.7	2529.2	2517.2	2456.0	2524.1	2899.8	*3318.1*	3329.0	2292.5
57.5°	2380.8	2408.6	2551.9	2652.9	2751.2	2640.9	2640.5	3024.6	*3453.3*	3505.0	2452.5
60°	2085.2	2123.0	2334.1	2558.1	2865.8	2962.6	2882.0	3177.0	*3589.9*	3679.4	2652.9
62.5°	1489.2	1551.5	1837.6	2195.3	2708.7	3175.7	3373.7	3418.9	*3775.7*	3881.4	2913.4
65°	752.8	800.0	1039.8	1470.7	2164.2	3036.4	3908.1	3948.3	*4098.5*	4192.4	3314.5
67.5°	457.4	475.2	592.2	818.0	1326.8	2365.3	4082.5	4830.9	*4723.2*	4773.0	3886.5
70°	337.0	350.2	423.1	543.3	763.1	1388.0	3547.2	5460.7	*5389.9*	5384.3	4309.2
72°	*262.5*	*272.1*	*336.6*	*438.9*	*557.9*	*832.7*	*2571.0*	*5228.2*	*5580.8*	*5552.8*	*4270.5*
72.5°	248.9	257.4	316.1	413.1	527.2	754.8	2311.6	5071.3	*5567.0*	5554.3	4220.4
75°	196.0	202.0	234.0	319.5	412.7	428.2	1266.7	3930.1	*4938.5*	5143.9	3795.9
77.5°	162.2	163.1	180.0	232.5	321.7	302.8	622.2	2726.8	*3536.3*	3762.1	2688.9
80°	132.1	133.3	141.3	163.1	243.4	224.0	295.4	1567.9	*1979.9*	1982.4	1278.7
82.5°	105.2	105.4	114.3	119.2	174.9	160.2	169.3	736.1	*865.2*	832.2	459.6
85°	74.1	72.5	111.7	97.9	114.3	102.8	93.4	291.4	*357.7*	342.2	143.9
87.5°	24.7	25.6	49.6	63.4	66.7	58.3	41.6	111.7	*135.0*	133.9	45.6
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: P386283
CATALOG NUMBER: GPC-SA1D-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	794.9	794.9	794.9	794.9	794.9	794.9	794.9	794.9	794.9	794.9	794.9
2.5°	798.9	791.8	781.3	769.7	760.6	751.3	744.4	740.8	736.8	733.5	737.5
5°	807.3	794.0	771.7	749.9	733.9	719.7	709.4	704.1	699.2	695.9	696.3
7.5°	821.1	799.5	762.2	730.4	708.1	692.8	682.3	678.7	675.6	674.7	675.9
10°	835.8	804.0	749.5	707.2	681.9	669.2	664.5	667.0	669.2	671.2	673.4
12.5°	852.5	808.0	731.0	680.1	658.5	653.6	658.3	669.0	676.7	681.4	684.3
15°	874.3	811.6	709.7	652.9	638.5	644.0	659.8	678.3	691.9	700.5	701.9
17.5°	894.3	811.3	682.3	625.6	622.2	638.5	662.3	688.3	706.6	718.8	721.2
20°	915.0	805.3	650.5	598.9	605.8	632.5	663.4	694.8	716.8	731.0	734.4
22.5°	934.4	794.9	615.6	574.6	592.0	624.5	659.2	691.0	713.0	724.6	728.1
25°	947.5	776.6	580.2	554.2	579.7	614.7	645.4	671.0	687.4	693.2	694.1
27.5°	954.2	752.8	546.8	536.4	567.1	598.7	619.8	632.5	637.1	636.7	635.8
30°	955.0	721.5	518.1	521.9	552.4	575.1	585.1	582.6	576.6	566.4	567.3
32.5°	952.2	686.1	494.1	508.1	533.7	546.4	546.8	535.0	519.0	502.8	498.3
35°	953.0	651.4	473.0	492.5	511.0	516.6	511.4	494.1	472.3	451.4	446.9
37.5°	962.8	621.1	454.7	474.5	485.9	487.2	479.9	461.6	445.6	425.1	423.4
40°	986.2	599.5	437.4	454.3	460.7	461.4	450.9	438.0	439.4	428.5	428.2
42.5°	1028.2	590.2	422.0	433.1	437.1	438.5	430.5	422.2	433.8	426.7	424.2
45°	1082.5	592.4	409.1	412.5	419.8	426.0	421.1	411.1	415.6	384.6	374.4
47.5°	1145.3	606.7	398.9	394.7	407.3	419.1	411.6	396.4	380.6	349.9	344.2
50°	1218.7	628.7	389.5	377.1	393.8	409.8	402.2	380.6	356.8	341.9	339.9
52.5°	1295.2	655.6	380.2	357.7	376.6	402.7	398.9	377.1	347.7	333.0	330.4
55°	1382.0	682.7	368.4	335.3	358.2	399.3	397.3	364.2	340.8	332.6	330.6
57.5°	1489.9	713.7	352.8	311.9	340.8	387.3	381.1	356.4	333.7	327.5	326.8
60°	1630.5	759.3	330.4	287.0	319.7	368.8	367.5	345.0	322.4	317.9	317.0
62.5°	1841.4	834.7	299.4	262.1	296.1	337.5	349.7	329.7	310.3	310.1	310.6
65°	2168.4	948.2	265.8	240.3	272.3	311.0	329.0	313.9	298.1	302.6	303.2
67.5°	2547.5	1042.3	232.9	218.9	248.0	285.9	310.3	298.1	281.9	293.4	293.7
70°	2673.6	958.2	204.0	197.8	222.9	261.6	290.1	280.8	264.3	275.9	274.7
72°	*2488.1*	*773.5*	*185.3*	*181.8*	*204.0*	*241.6*	*272.1*	*264.5*	*248.3*	*256.1*	*253.2*
72.5°	2429.6	737.5	180.6	177.8	198.9	236.5	267.4	260.5	244.3	250.9	248.3
75°	2167.3	640.5	155.3	155.9	173.5	211.6	241.2	238.9	222.2	222.9	222.0
77.5°	1571.9	469.6	130.8	135.3	147.7	186.0	214.7	213.3	195.1	191.8	191.1
80°	729.5	239.6	106.6	108.6	121.5	155.5	183.1	181.3	166.6	162.4	160.0
82.5°	249.8	113.9	80.1	81.4	94.1	125.2	158.8	157.7	145.5	137.3	132.1
85°	89.2	56.7	56.1	54.7	67.2	98.6	138.4	132.4	114.3	97.4	97.0
87.5°	28.9	24.2	28.9	28.7	39.2	66.7	100.6	85.6	83.0	69.0	67.6
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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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

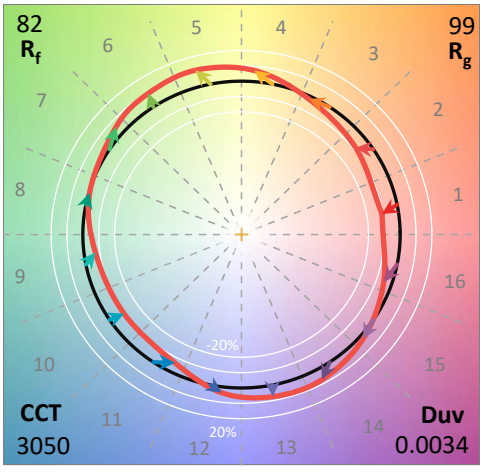
Test Information

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

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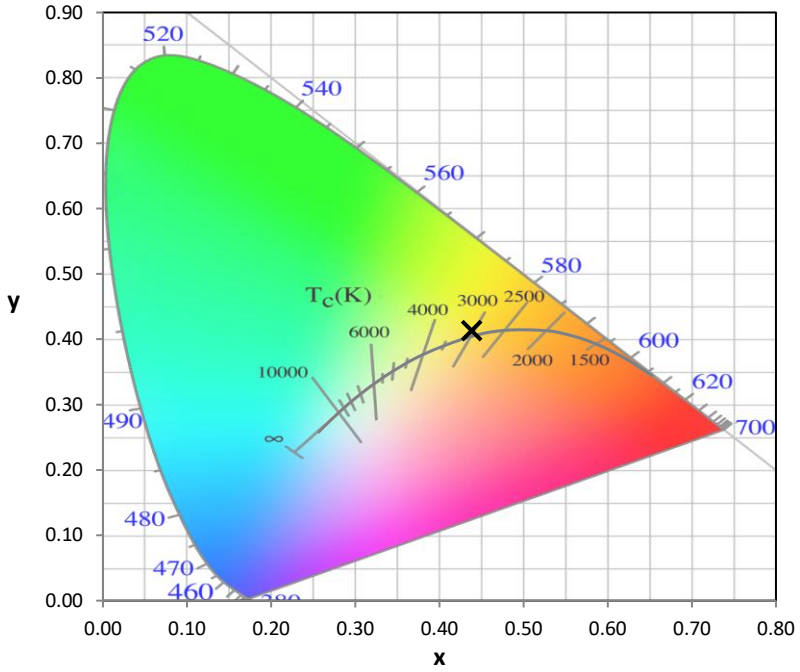
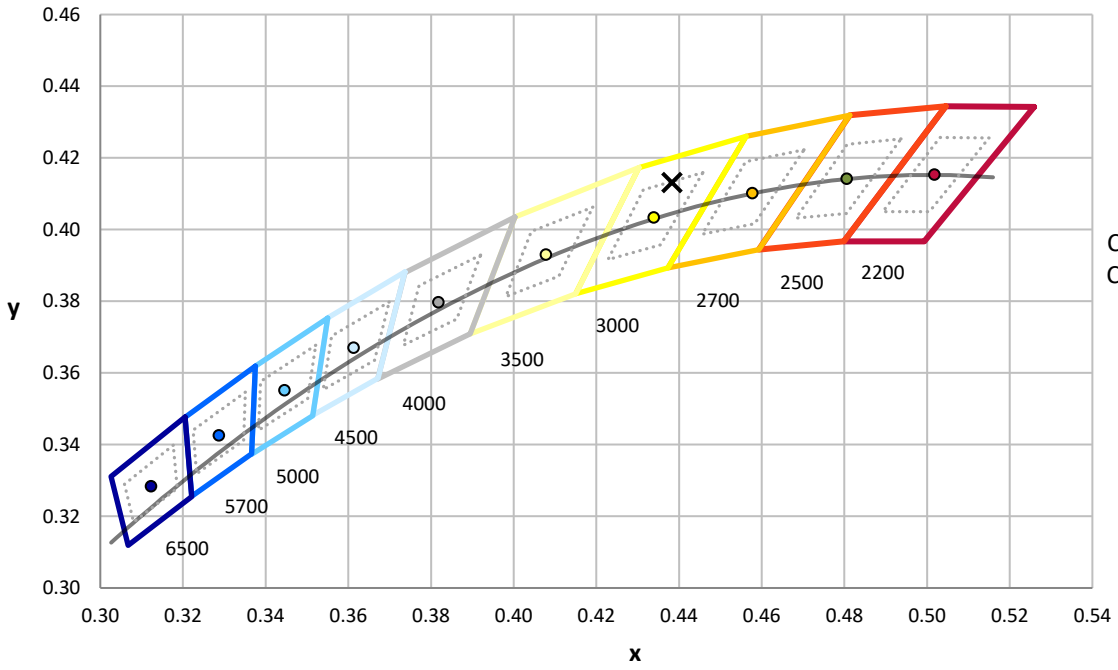
CIE 1931 Chromaticity Diagram



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

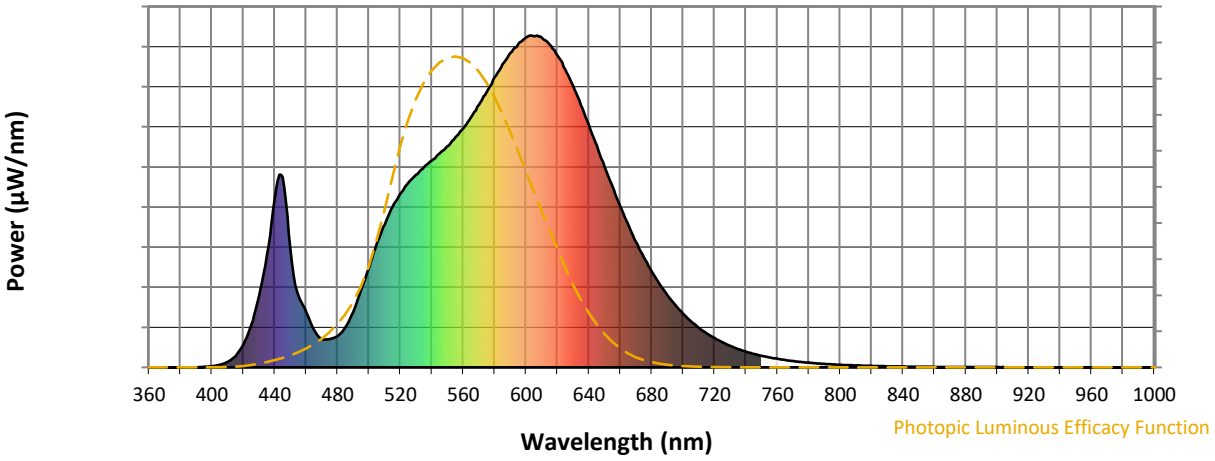


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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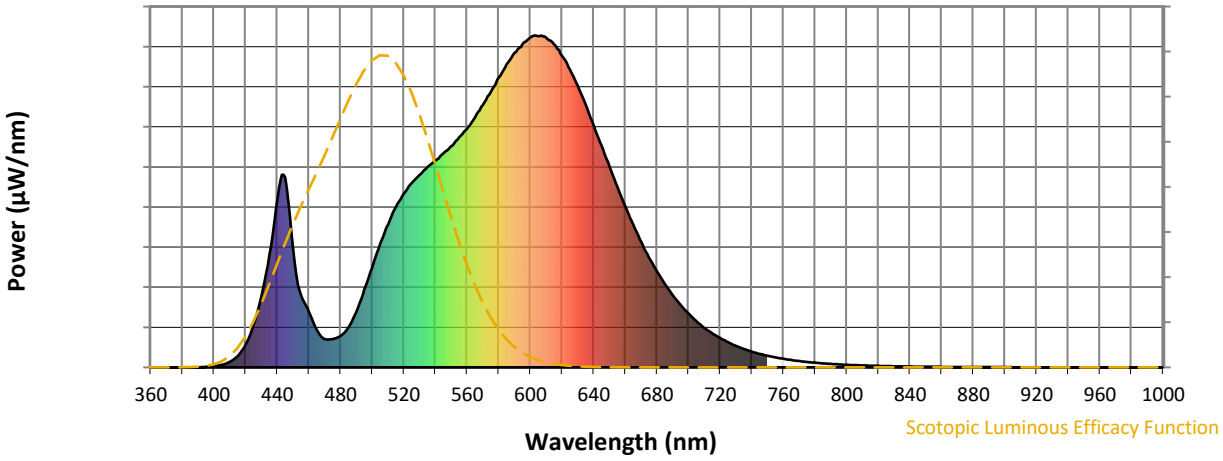
Scotopic Flux vs. Wavelength



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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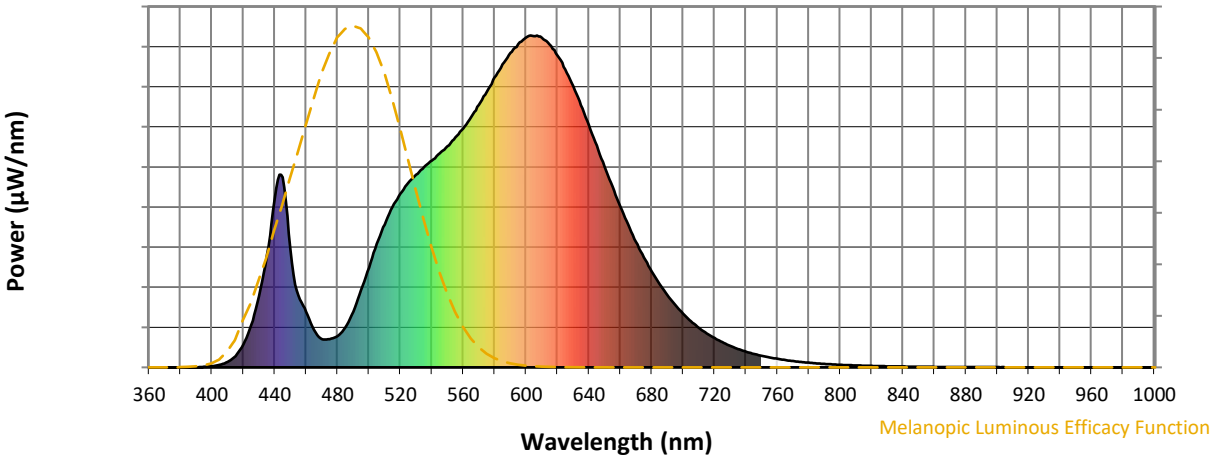
Melanopic Flux vs. Wavelength



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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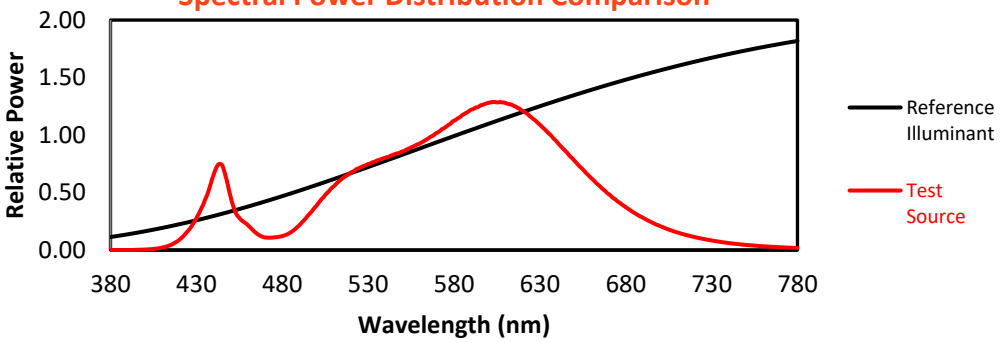
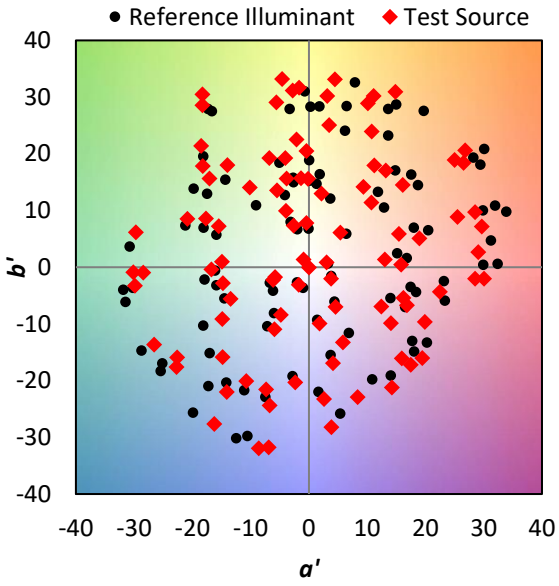
Summary

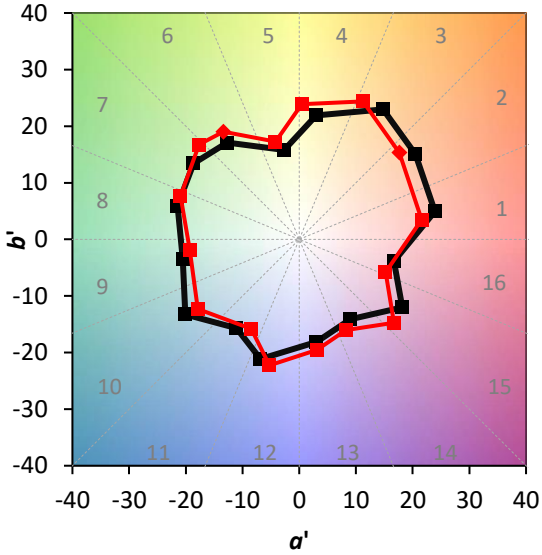
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

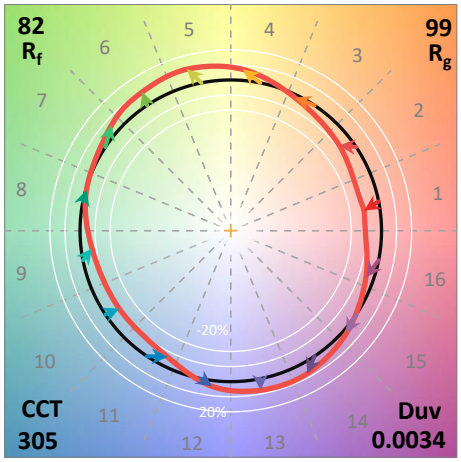
Spectral Power Distribution Comparison

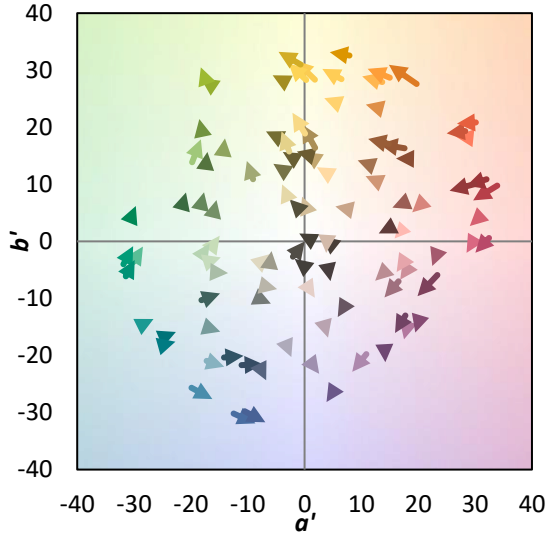


Color Vector Graphics









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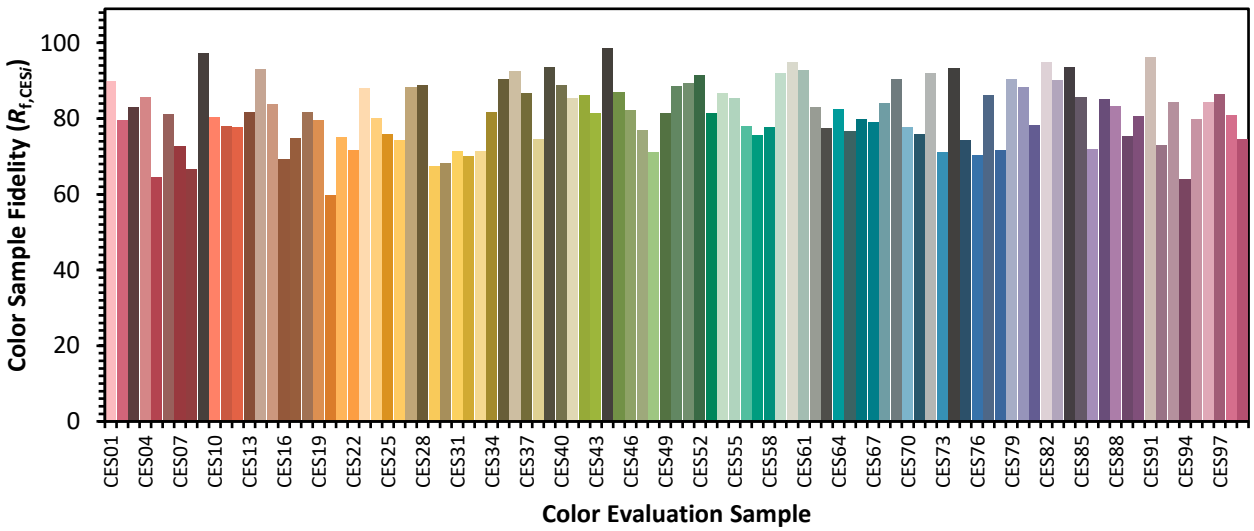
Individual Sample Fidelity Index ($R_{f,i}$)

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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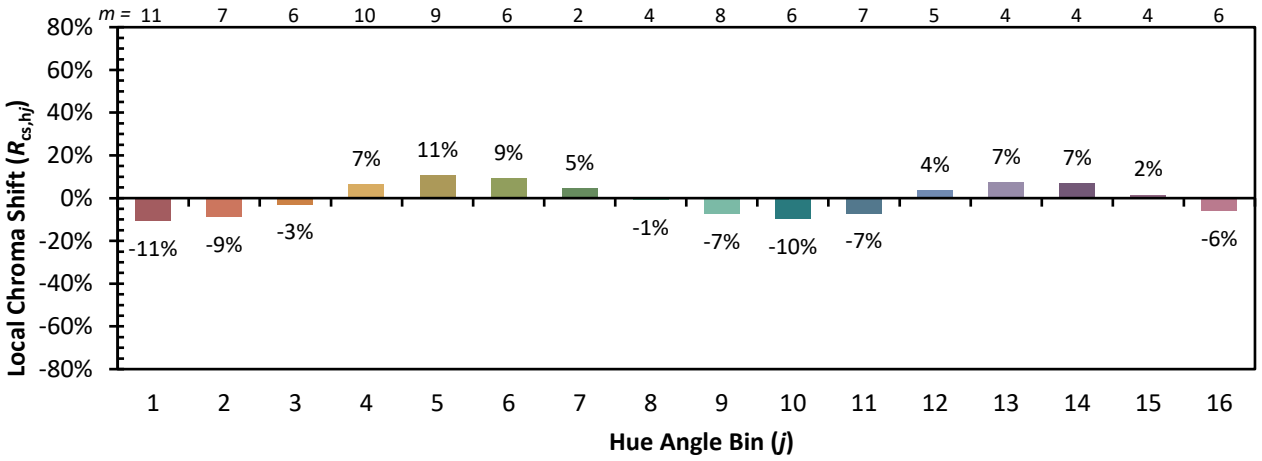
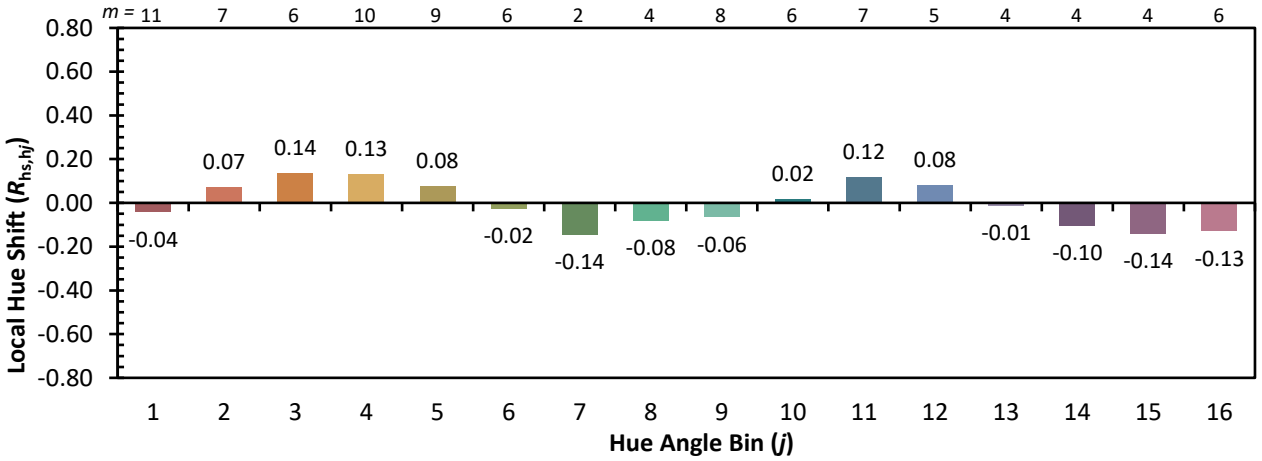
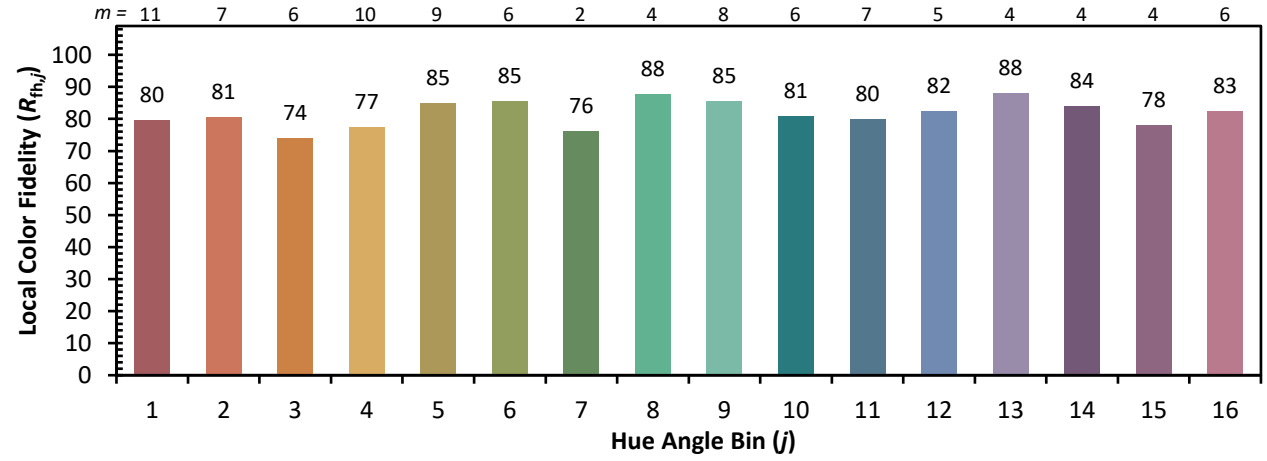
Color Rendition by Hue-Angle Bin







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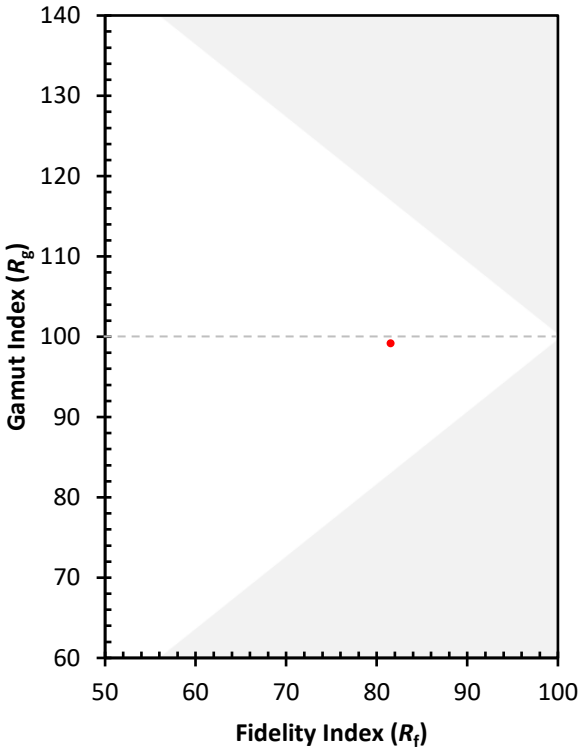
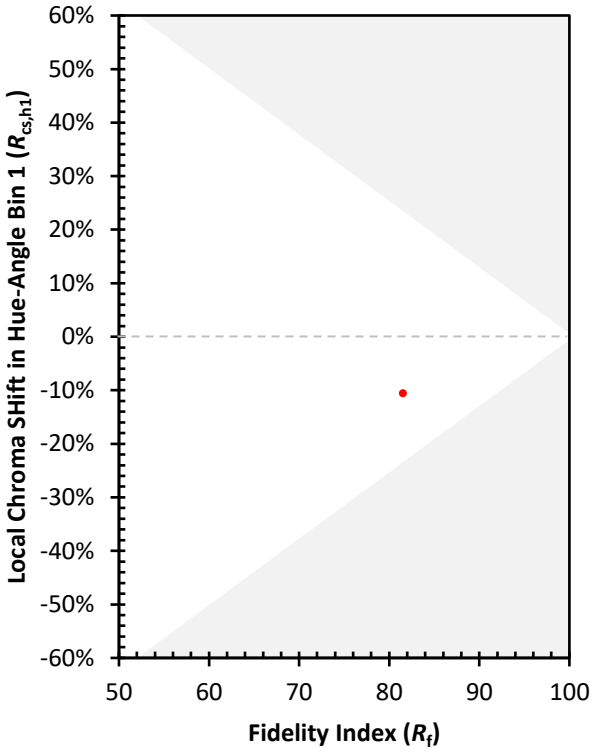
Measure Comparisons





(END OF REPORT)