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: P385824

Luminaire Tested: **GPC-SA1B-830-U-SL2-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:	P385824
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA1B-830-U-SL2-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 800mA 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:	4017 lumens
Efficiency:	N/A
Efficacy:	91.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G1

Input Watts (W):	44
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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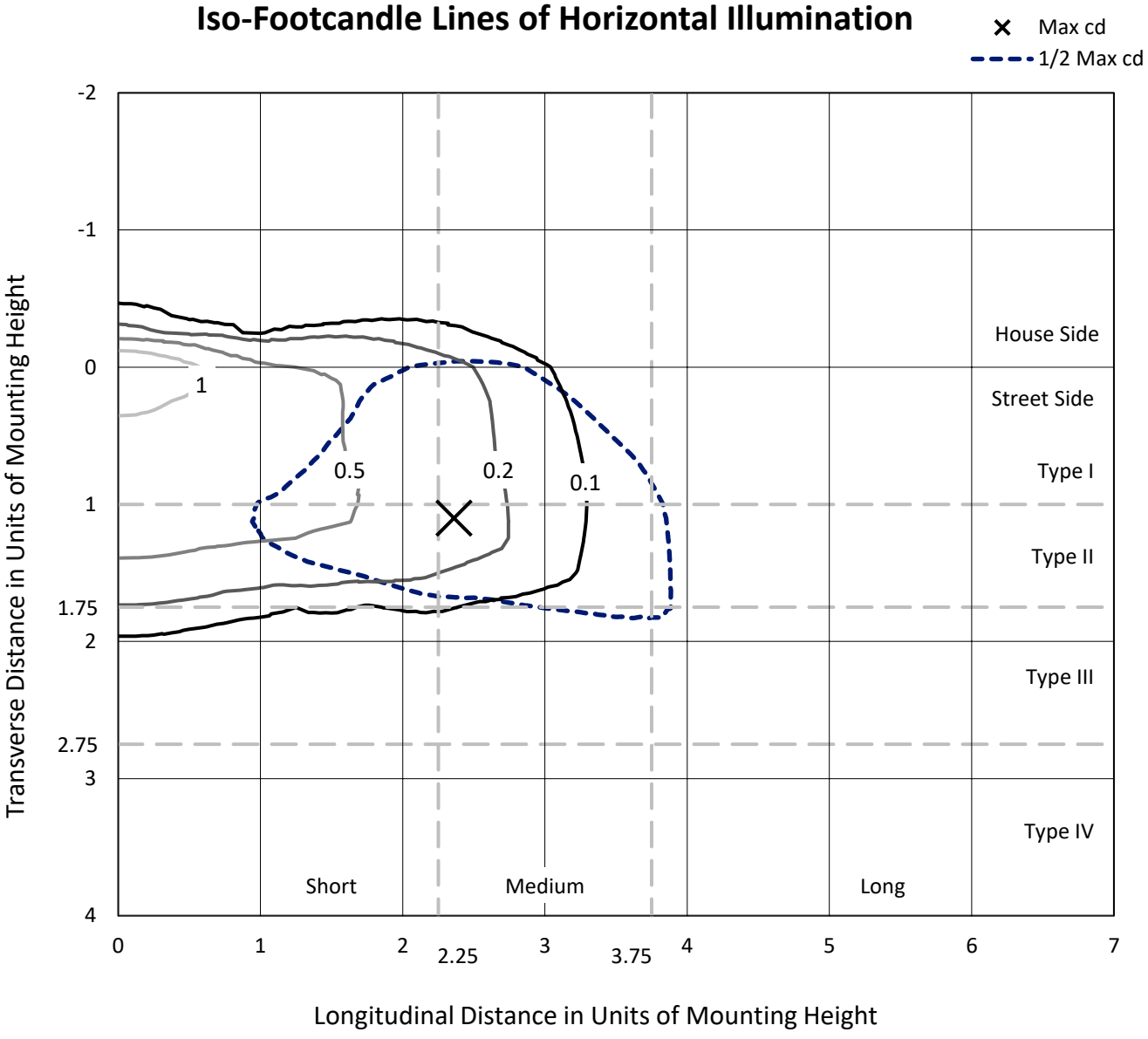
REPORT NUMBER: P385824
CATALOG NUMBER: GPC-SA1B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Medium - N/A

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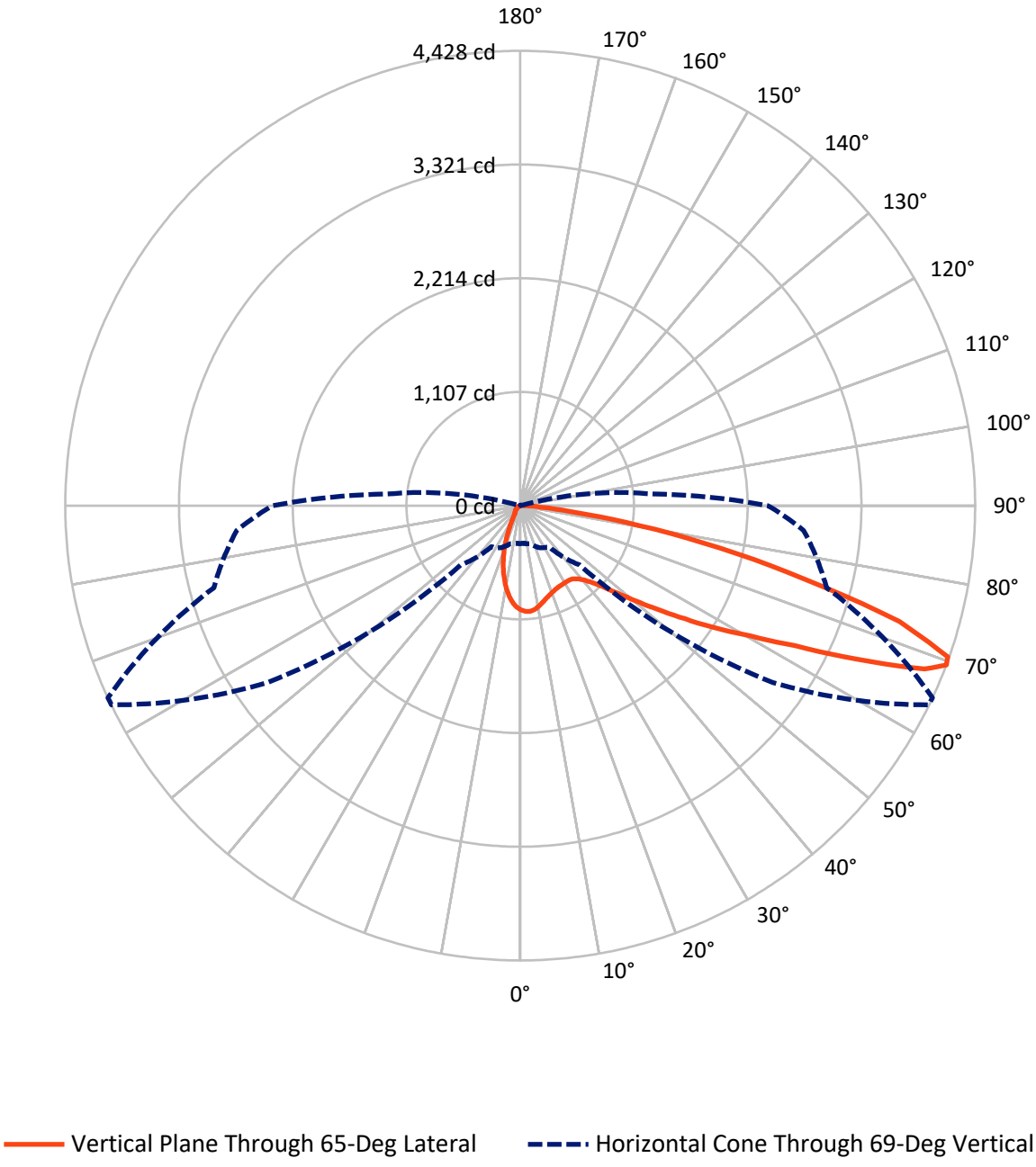
Luminous Intensity Polar Plot



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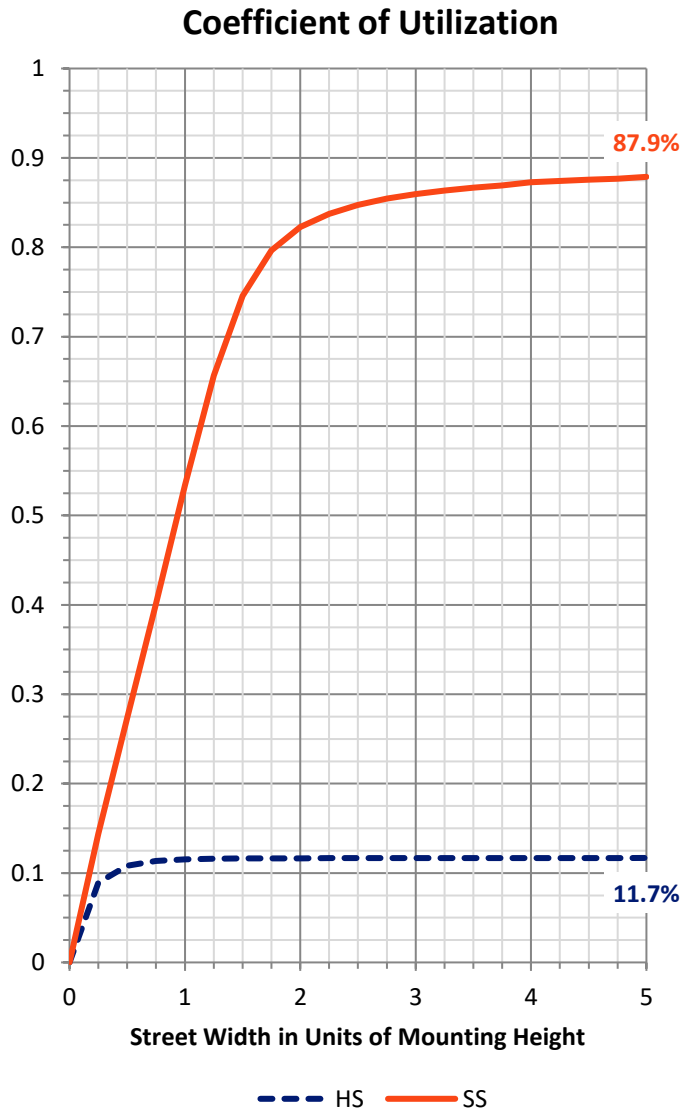
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.5	0.0	473.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3543.5	0.0	3543.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	4017.0	0.0	4017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	2.1
10°-20°	185.8	4.6
20°-30°	257.4	6.4
30°-40°	358.8	8.9
40°-50°	557.8	13.9
50°-60°	895.4	22.3
60°-70°	1012.9	25.2
70°-80°	594.9	14.8
80°-90°	69.2	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°	4017.0	100.0
0°-180°	4017.0	100.0



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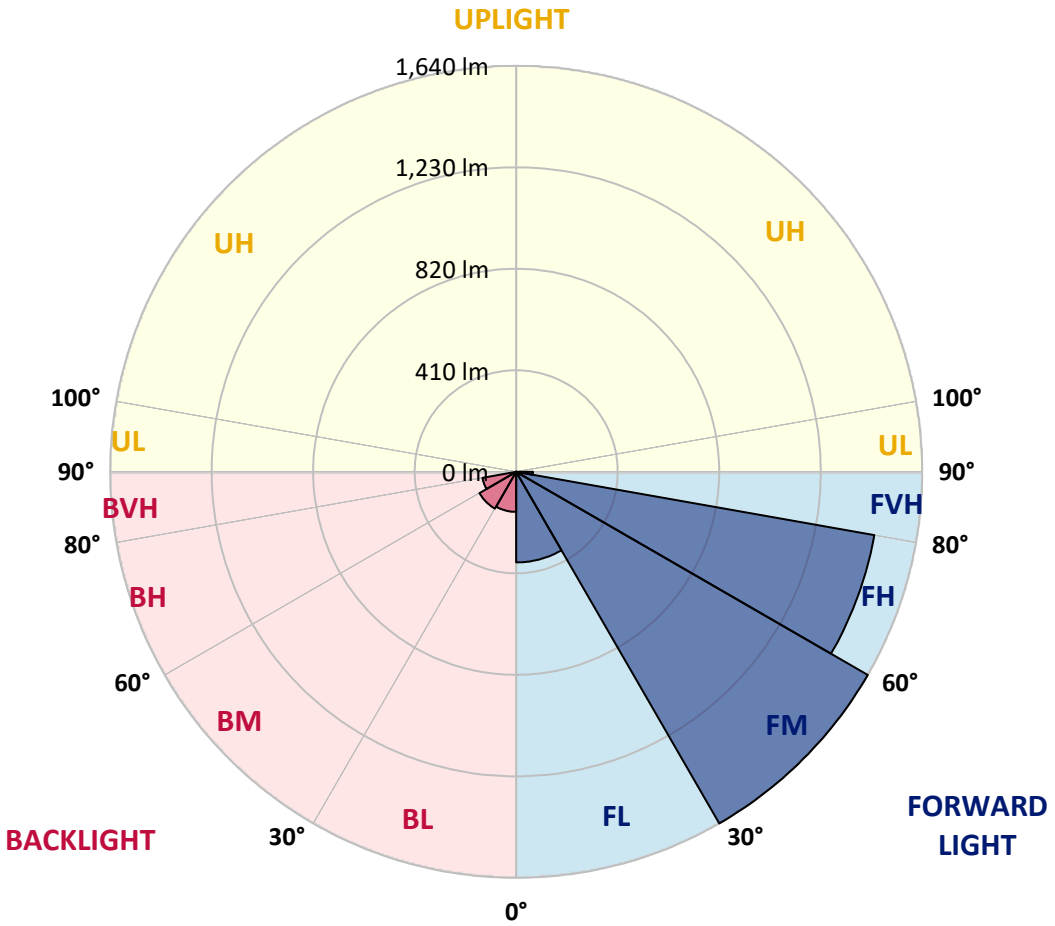
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	366.0	9.1			
FM	(30°-60°)	1640.4	40.8			
FH	(60°-80°)	1469.4	36.6			G1/1800
FVH	(80°-90°)	67.6	1.7			G1/100
BL	(0°-30°)	162.0	4.0	B1/500		
BM	(30°-60°)	171.6	4.3	B0/220		
BH	(60°-80°)	138.4	3.4	B1/500		G1/500
BVH	(80°-90°)	1.6	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 III Medium



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Scaled Data Report

REPORT NUMBER: P385824
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	*1015.1*	1015.1	1015.1
2.5°	1024.1	1021.6	1023.6	1028.0	1030.2	1030.2	1031.9	1029.9	*1030.6*	1025.6	1018.5
5°	960.0	956.1	961.7	974.1	989.4	1002.5	1021.9	1032.1	*1033.1*	1033.3	1025.0
7.5°	891.0	887.5	895.8	910.4	930.1	954.4	988.2	1017.8	*1019.5*	1035.5	1029.4
10°	834.9	832.4	842.1	857.7	880.8	908.0	949.5	990.6	*995.6*	1030.9	1028.7
12.5°	790.4	788.4	797.5	815.5	839.2	869.3	912.6	960.4	*967.0*	1020.5	1025.3
15°	757.9	757.6	765.2	782.6	808.8	836.8	881.2	932.3	*940.0*	1009.3	1024.8
17.5°	740.9	741.4	747.0	761.8	784.3	812.2	854.6	908.7	*917.0*	999.3	1027.3
20°	739.2	739.7	742.8	751.1	769.3	794.0	833.1	888.8	*897.5*	991.8	1031.4
22.5°	754.2	753.8	754.7	753.8	764.0	782.7	818.8	873.5	*883.5*	986.9	1034.7
25°	782.9	782.4	782.1	775.8	769.0	779.0	812.8	864.8	*874.4*	983.3	1036.5
27.5°	822.9	822.5	822.0	811.6	791.2	785.0	813.5	861.6	*869.6*	980.4	1036.2
30°	875.4	877.8	877.1	862.6	830.8	803.1	820.6	859.9	*866.9*	974.8	1032.6
32.5°	937.1	941.8	945.6	930.1	890.3	839.2	837.1	861.8	*866.9*	970.6	1026.2
35°	1001.2	1007.3	1021.1	1015.6	963.3	893.4	865.5	873.0	*877.3*	972.9	1023.1
37.5°	1064.2	1071.5	1101.5	1117.3	1058.8	965.1	909.7	900.7	*902.9*	987.4	1026.5
40°	1137.5	1148.5	1193.9	1219.4	1172.8	1061.2	975.8	948.3	*949.2*	1019.2	1042.3
42.5°	1233.7	1245.1	1294.2	1334.1	1301.3	1182.5	1065.6	1021.1	*1020.2*	1078.7	1079.5
45°	1351.0	1362.9	1413.7	1458.1	1443.3	1326.3	1180.5	1127.3	*1126.3*	1172.5	1150.1
47.5°	1483.9	1495.6	1541.0	1586.7	1602.7	1494.3	1326.8	1272.3	*1269.9*	1302.9	1259.0
50°	1598.0	1605.6	1647.4	1708.9	1781.0	1700.6	1508.9	1456.4	*1453.8*	1476.1	1419.0
52.5°	1639.4	1643.8	1686.3	1772.5	1952.4	1980.1	1748.0	1680.4	*1678.5*	1688.2	1631.9
55°	1555.5	1563.4	1615.6	1743.5	2045.2	2295.9	2049.9	1957.8	*1943.7*	1922.8	1854.6
57.5°	1326.7	1339.4	1395.5	1565.5	2001.8	2546.4	2493.6	2271.6	*2250.8*	2123.0	2035.6
60°	994.0	1009.7	1056.2	1239.6	1770.5	2635.7	2978.3	2621.2	*2574.5*	2282.5	2202.1
62.5°	682.1	689.9	721.6	841.0	1303.9	2489.5	3383.9	3089.5	*3004.2*	2455.8	2382.1
65°	521.0	523.7	536.6	577.8	776.5	2022.2	3545.2	3707.4	*3604.2*	2663.2	2568.9
67.5°	419.8	417.6	435.5	494.3	520.0	1233.7	3357.0	4291.9	*4243.6*	2940.4	2756.9
69°	*370.2*	*367.2*	*385.3*	*453.7*	*488.3*	*815.5*	*3001.1*	*4424.7*	*4427.7*	*3086.8*	*2769.8*
70°	333.2	335.2	353.2	429.5	477.6	640.1	2661.2	4390.8	*4415.0*	3141.5	2692.3
72.5°	222.5	227.9	264.1	356.6	459.3	484.4	1606.8	3767.9	*3860.7*	3018.3	2309.8
75°	125.4	129.5	172.5	268.9	432.8	461.3	848.7	2775.9	*2865.6*	2524.0	1781.2
77.5°	61.5	63.7	97.6	173.5	361.9	439.6	481.4	1885.6	*1988.1*	1647.4	1007.5
80°	26.0	27.2	48.8	107.1	258.7	419.5	357.5	1160.4	*1173.2*	645.4	268.4
82.5°	10.0	10.4	20.6	66.8	164.4	327.0	299.0	550.2	*537.0*	121.5	61.2
85°	1.2	1.4	7.5	40.1	91.4	168.3	242.9	237.1	*219.4*	24.1	31.4
87.5°	0.0	0.0	0.5	12.2	27.2	78.9	126.3	98.4	*88.7*	7.8	16.3
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: GPC-SA1B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1012.6	1010.9	1001.7	988.4	975.8	960.2	945.2	936.2	929.1	924.3	929.9
5°	1015.3	1007.8	979.9	944.2	909.2	869.8	833.1	802.0	789.7	776.1	782.2
7.5°	1014.4	1000.3	950.2	886.6	822.3	755.9	693.0	644.6	619.4	594.7	601.0
10°	1010.2	986.4	910.4	816.2	720.0	624.5	535.3	467.4	429.5	395.2	400.1
12.5°	1000.8	967.7	863.5	735.7	607.0	481.0	376.5	289.6	243.1	222.5	225.0
15°	995.2	949.5	813.9	654.1	486.3	335.0	230.1	171.2	149.9	143.1	144.0
17.5°	992.5	932.0	762.5	560.8	362.9	213.3	148.7	131.2	126.6	125.4	125.8
20°	989.8	914.3	709.7	468.5	250.0	143.5	122.2	117.1	115.4	113.9	114.2
22.5°	985.2	897.3	652.9	375.0	168.6	116.4	110.1	105.2	101.6	99.8	100.1
25°	979.6	879.5	594.9	279.3	123.1	103.9	97.9	90.9	86.7	83.3	83.5
27.5°	970.6	857.5	535.1	203.3	103.3	93.0	85.0	77.3	70.2	66.3	66.3
30°	958.0	832.7	468.6	145.5	92.6	82.3	72.6	63.1	55.4	51.8	51.5
32.5°	944.1	806.9	401.5	110.3	84.1	72.2	61.2	51.2	44.4	41.5	41.3
35°	932.2	779.0	334.5	92.5	75.6	62.6	50.5	42.0	36.5	34.2	34.0
37.5°	924.5	751.1	269.2	82.6	68.0	53.5	42.3	34.7	30.8	28.9	28.7
40°	923.3	730.4	209.6	75.1	60.9	45.6	35.4	29.4	25.8	23.8	23.6
42.5°	938.8	718.5	160.8	68.8	53.5	38.6	30.1	25.2	21.4	19.4	19.2
45°	979.4	722.2	123.7	63.2	46.2	32.6	25.5	20.9	17.5	16.0	15.6
47.5°	1053.5	748.1	98.4	57.6	39.3	27.7	21.8	17.3	14.4	12.9	12.7
50°	1185.4	808.8	82.3	51.5	32.8	23.6	18.0	14.1	11.7	10.4	10.2
52.5°	1360.5	916.9	73.4	45.6	27.2	20.1	14.8	11.2	9.2	8.2	8.0
55°	1553.6	1047.7	67.7	39.1	22.3	16.7	11.7	8.8	7.1	6.3	5.9
57.5°	1742.1	1161.1	62.2	32.8	18.5	13.6	9.3	7.0	5.6	4.8	4.6
60°	1915.3	1265.3	55.9	26.3	15.1	10.7	7.3	5.4	4.4	3.6	3.6
62.5°	2100.7	1345.9	47.3	20.6	12.4	8.2	5.9	4.9	3.6	3.1	2.9
65°	2297.2	1405.7	37.1	16.0	9.7	6.1	4.9	5.1	2.9	2.2	2.0
67.5°	2442.4	1393.8	27.4	12.6	7.5	4.8	4.8	5.4	2.5	1.7	1.5
69°	*2410.4*	*1297.1*	*22.9*	*10.9*	*6.5*	*4.1*	*4.4*	*5.4*	*2.4*	*1.5*	*1.4*
70°	2317.8	1190.0	20.2	9.7	5.8	3.7	4.2	5.3	2.2	1.5	1.4
72.5°	1930.3	896.3	15.8	7.3	4.6	3.1	3.6	4.6	2.2	1.5	1.2
75°	1451.9	573.7	12.1	5.3	3.4	2.4	2.7	3.4	2.2	1.4	1.2
77.5°	790.1	206.9	8.7	3.6	2.4	1.9	1.9	2.5	2.0	1.0	0.7
80°	203.1	52.0	5.4	2.4	1.9	1.4	1.2	1.7	1.2	0.2	0.0
82.5°	50.1	11.7	2.9	1.7	1.4	0.5	0.5	0.8	0.5	0.0	0.0
85°	27.5	5.8	1.9	1.2	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	14.1	1.7	0.5	0.3	0.2	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

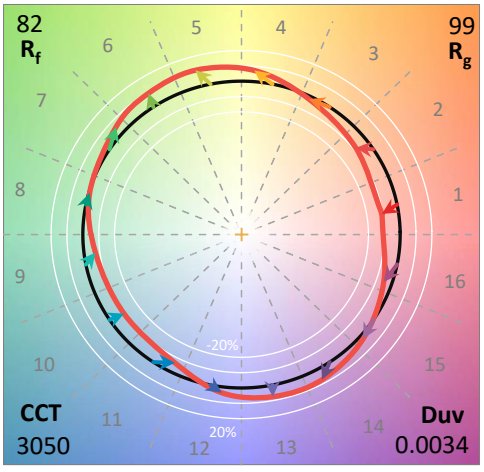
Test Information

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

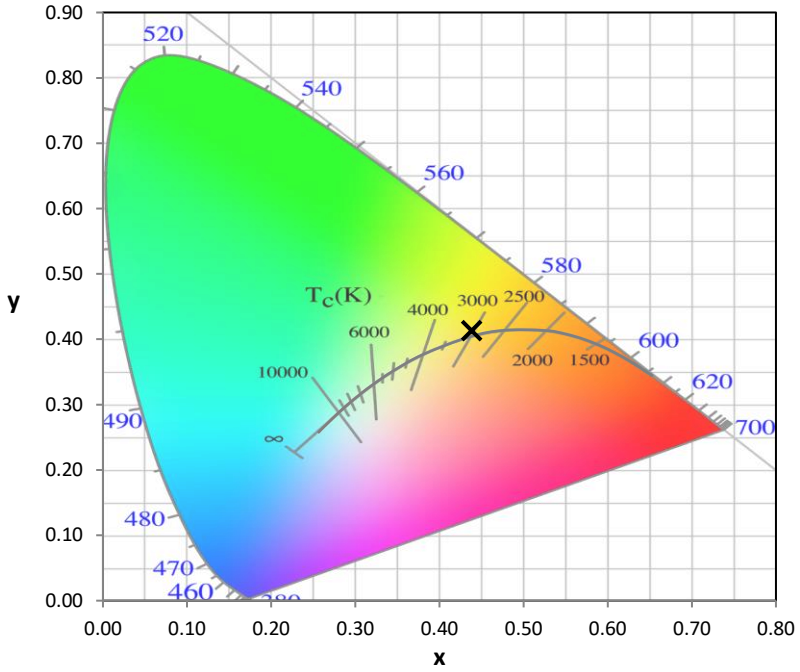
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

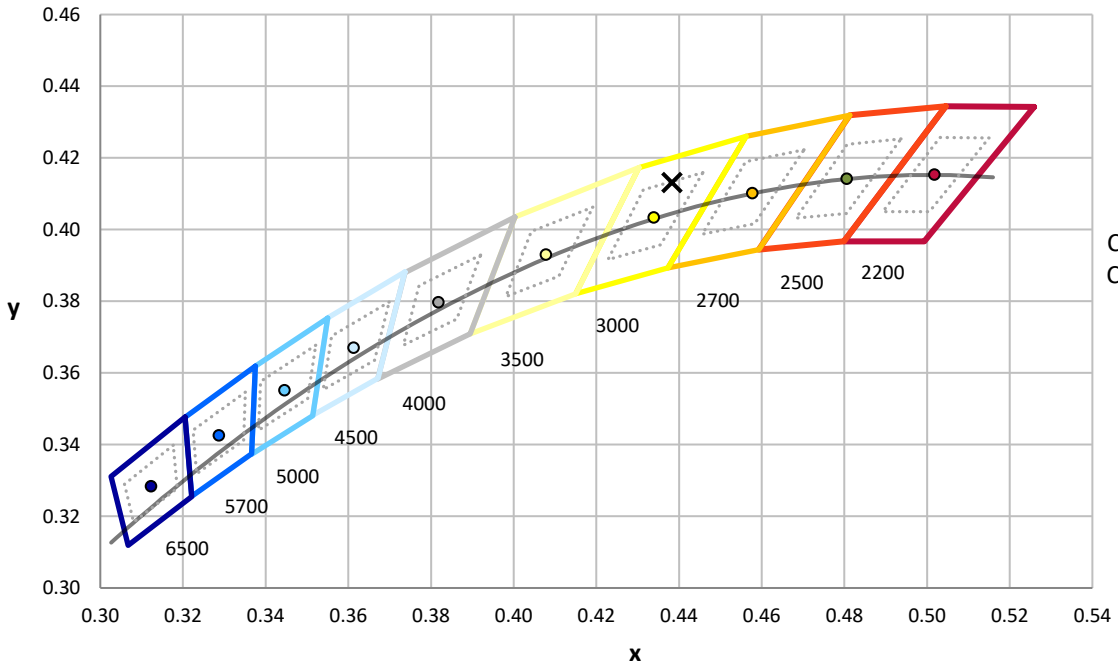
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

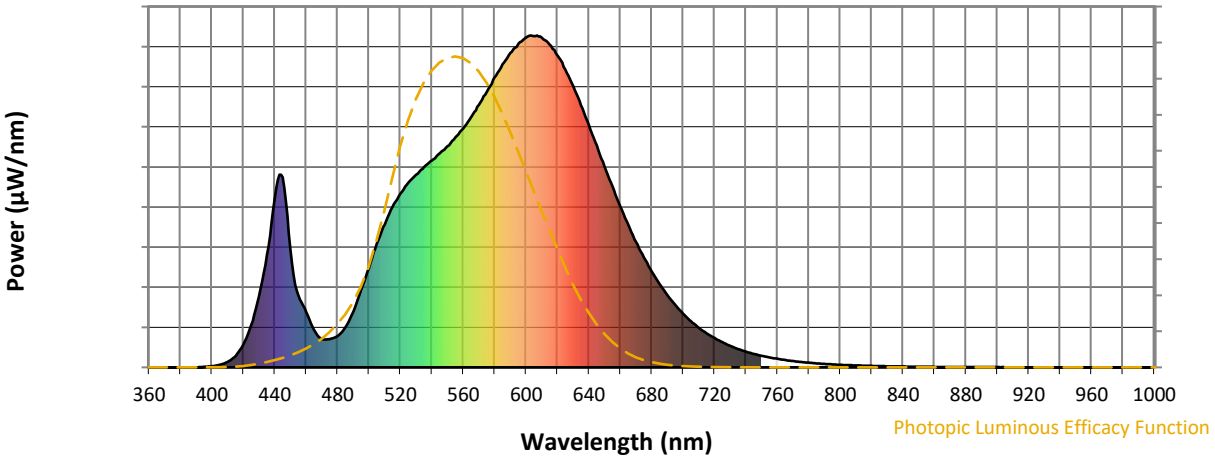


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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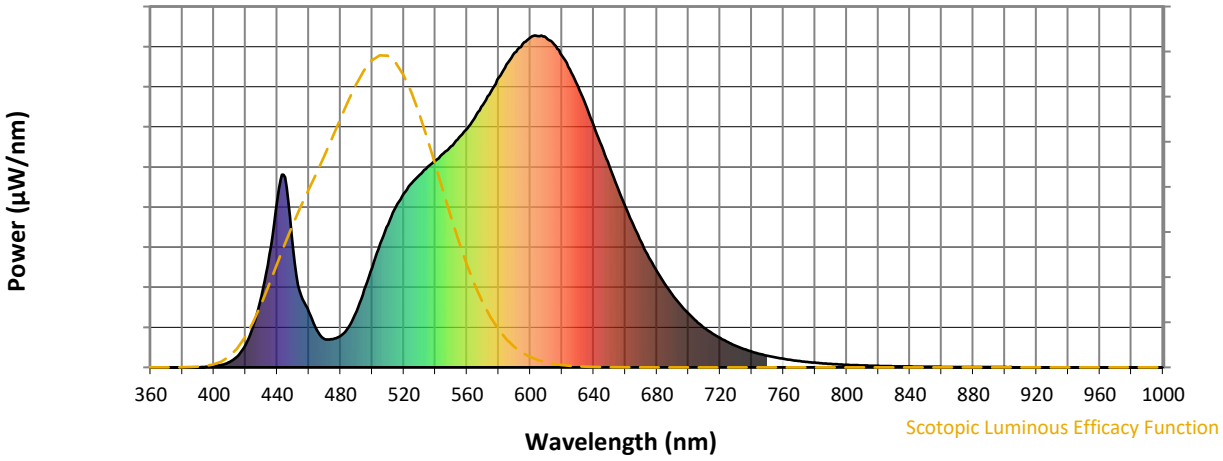
Scotopic Flux vs. Wavelength



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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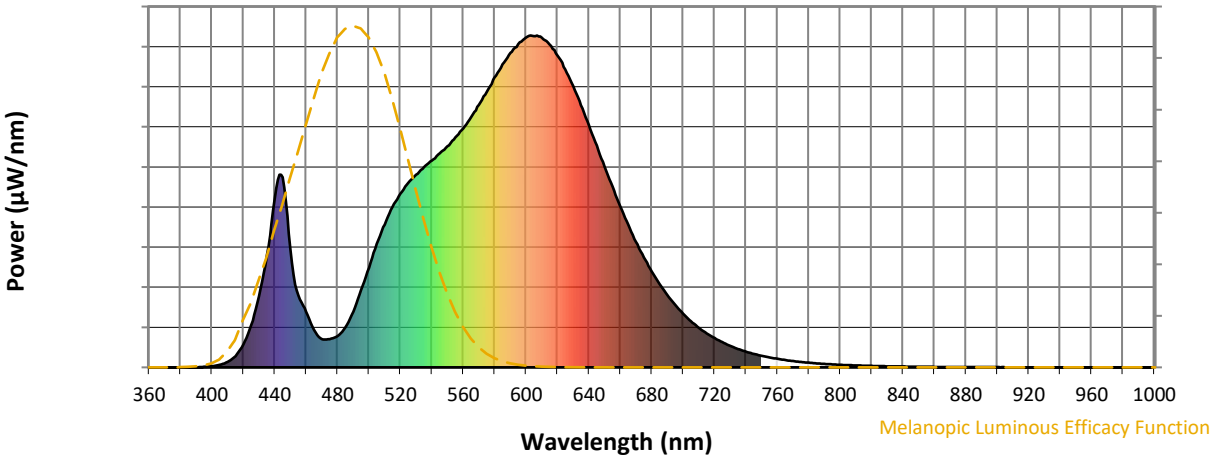
Melanopic Flux vs. Wavelength



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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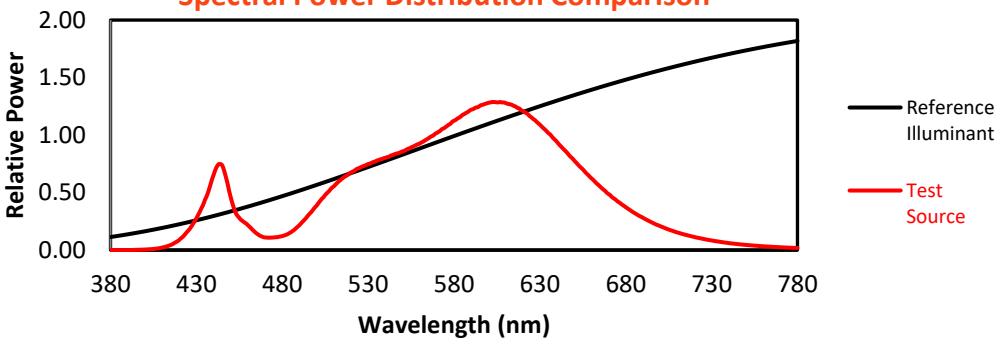
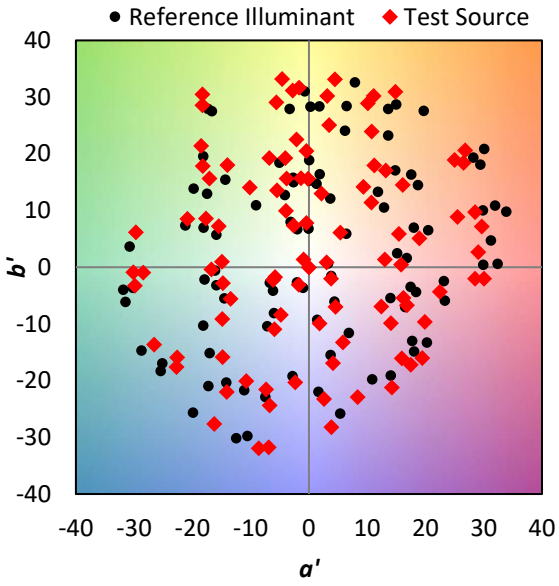
Summary

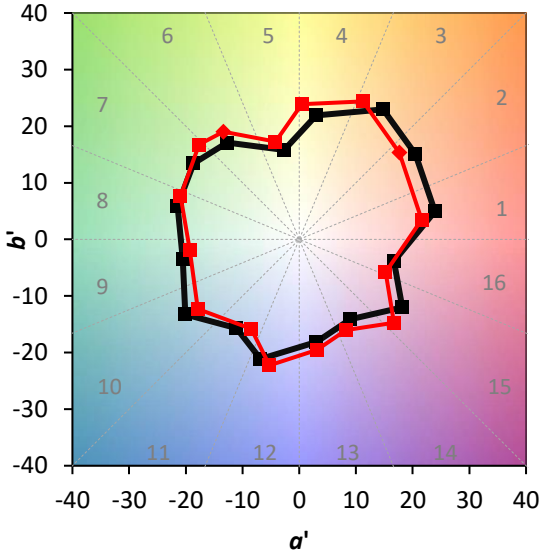
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

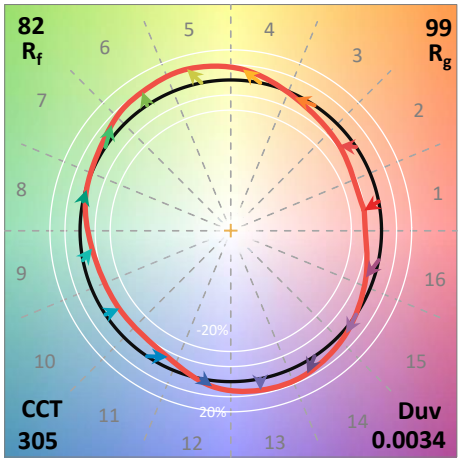
Spectral Power Distribution Comparison

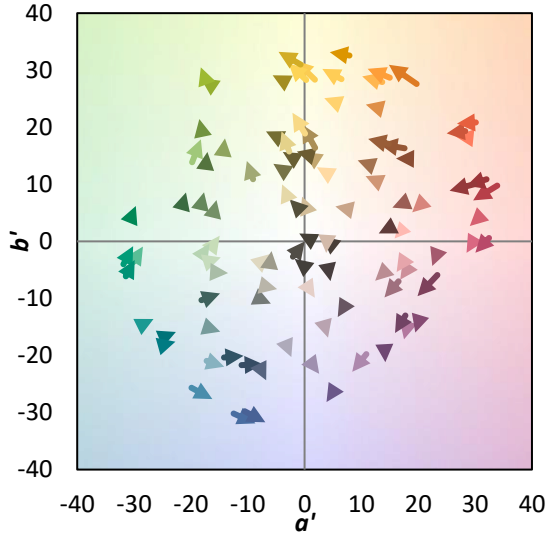


Color Vector Graphics









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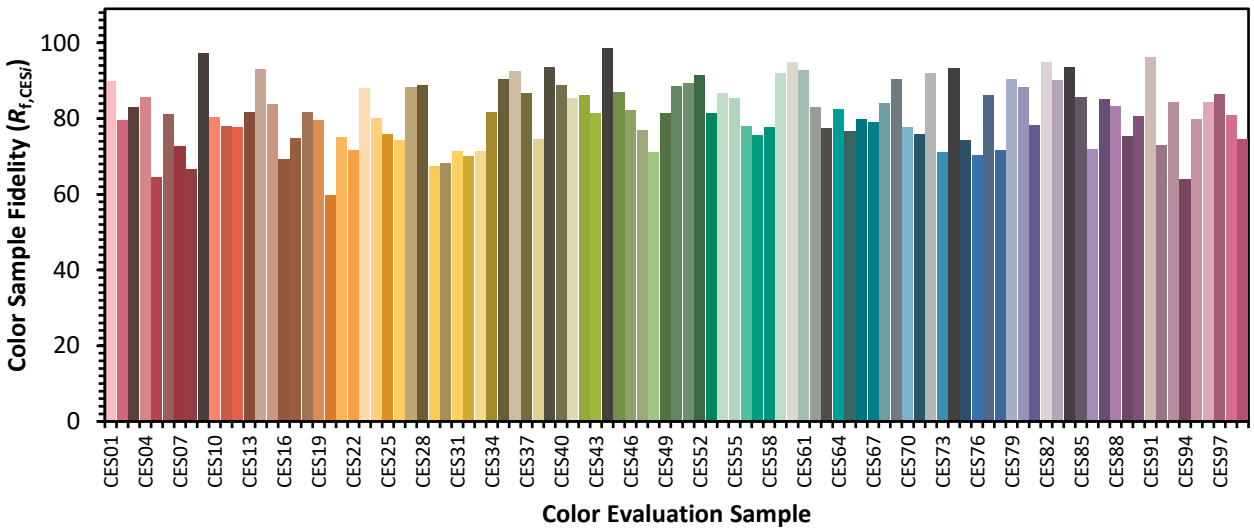
Individual Sample Fidelity Index ($R_{f,i}$)

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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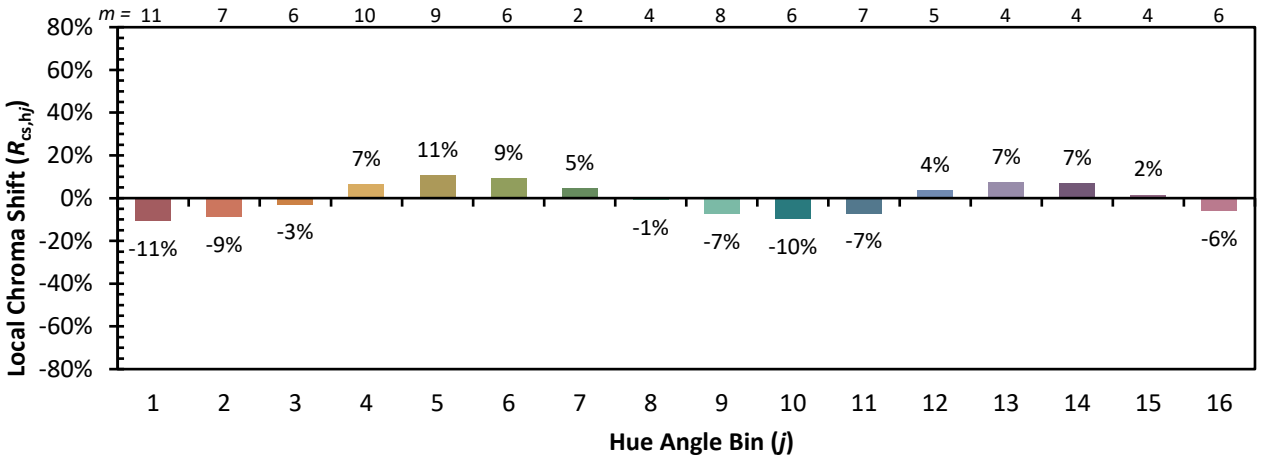
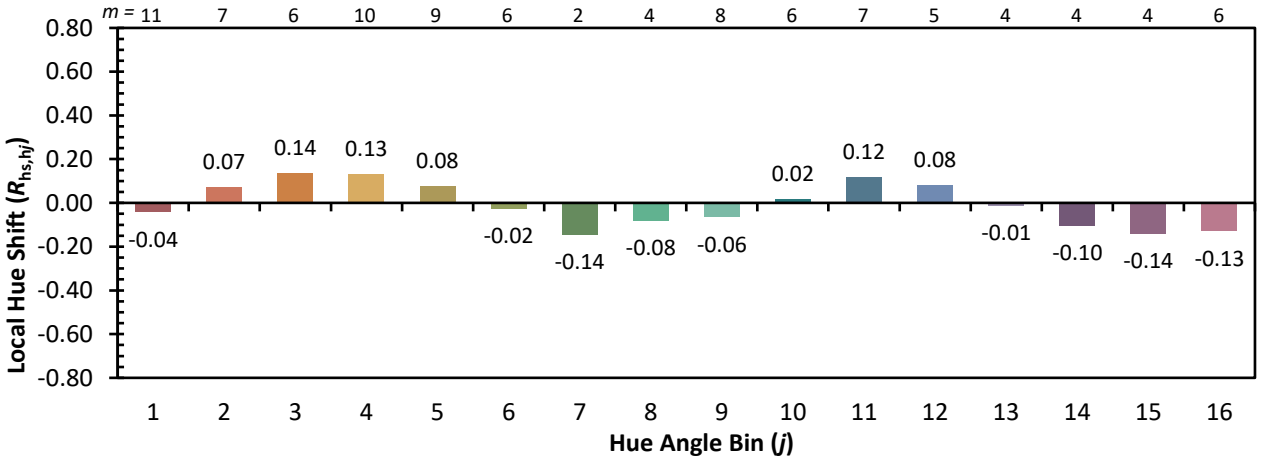
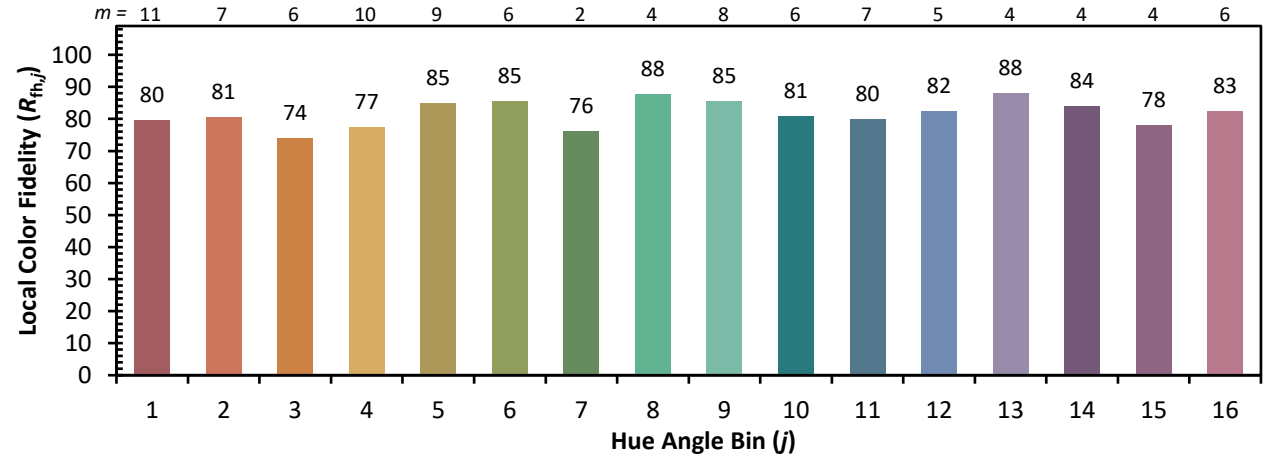
Color Rendition by Hue-Angle Bin







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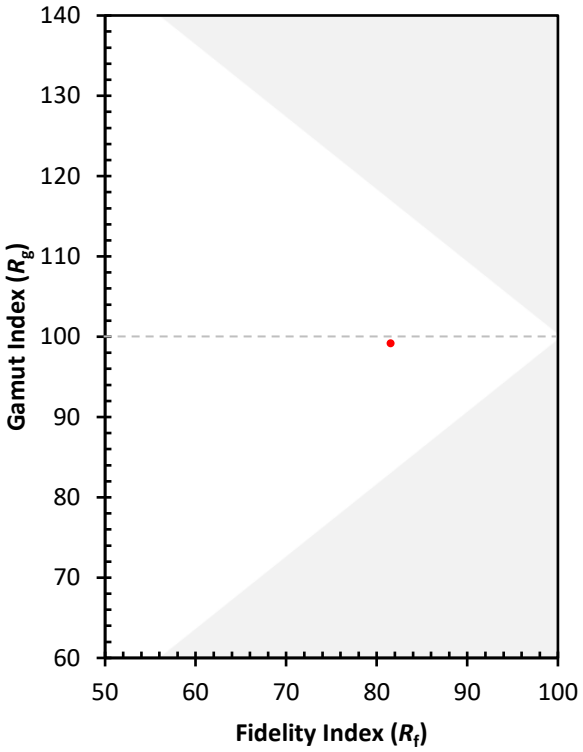
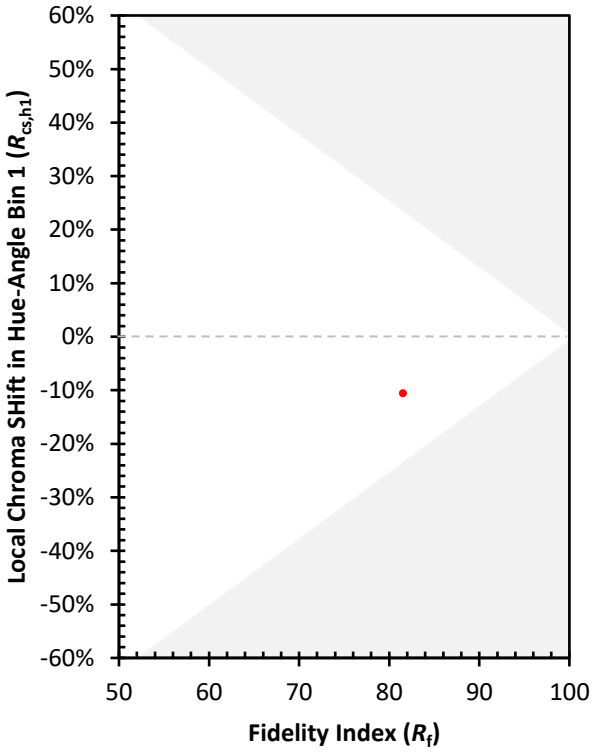
Measure Comparisons





(END OF REPORT)