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: P385610

Luminaire Tested: **GPC-SA1A-830-U-T2-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:	P385610
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA1A-830-U-T2-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2812 lumens
Efficiency:	N/A
Efficacy:	82.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B0 - U0 - G1

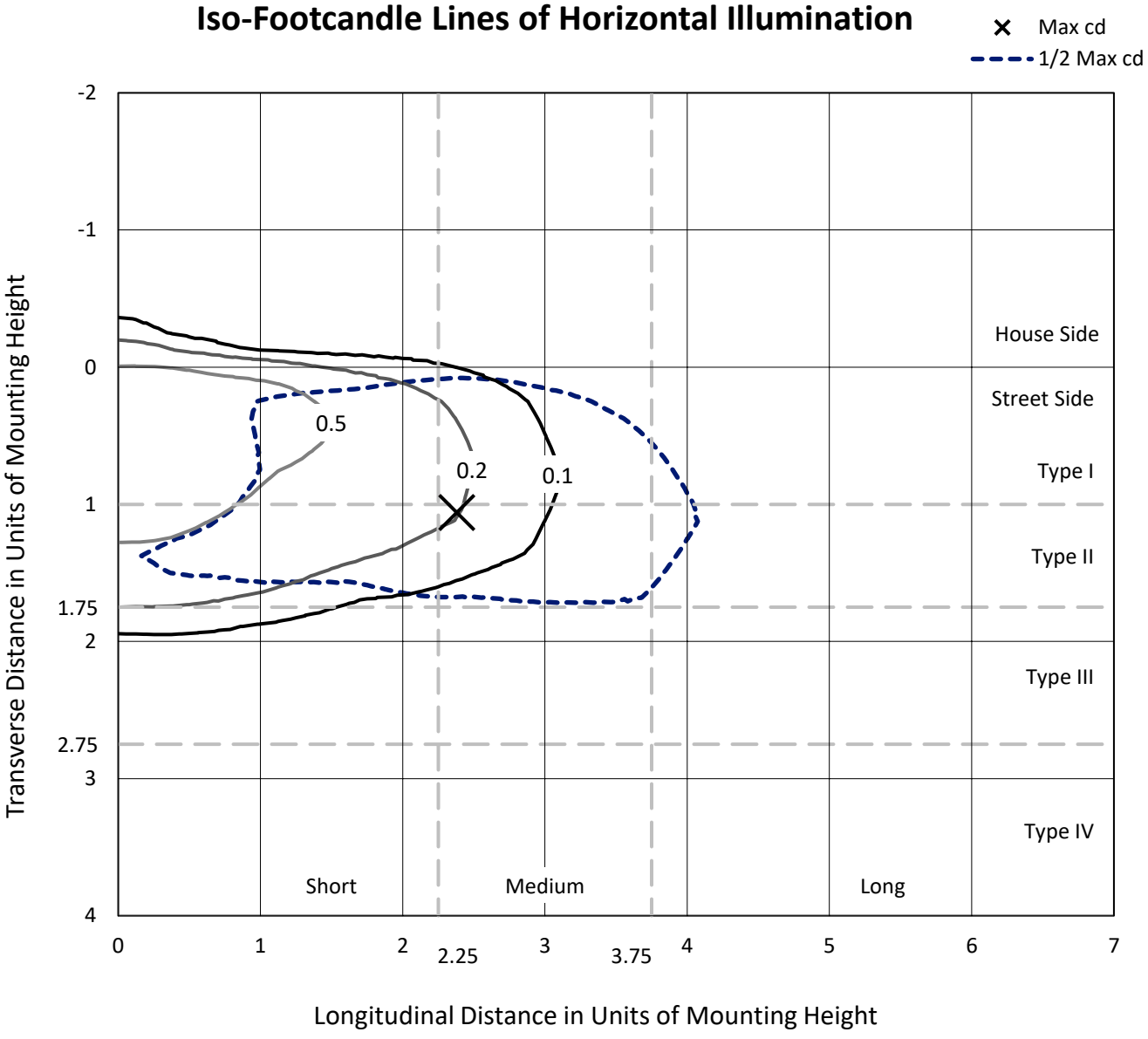
Input Watts (W):	34
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385610
CATALOG NUMBER: GPC-SA1A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination



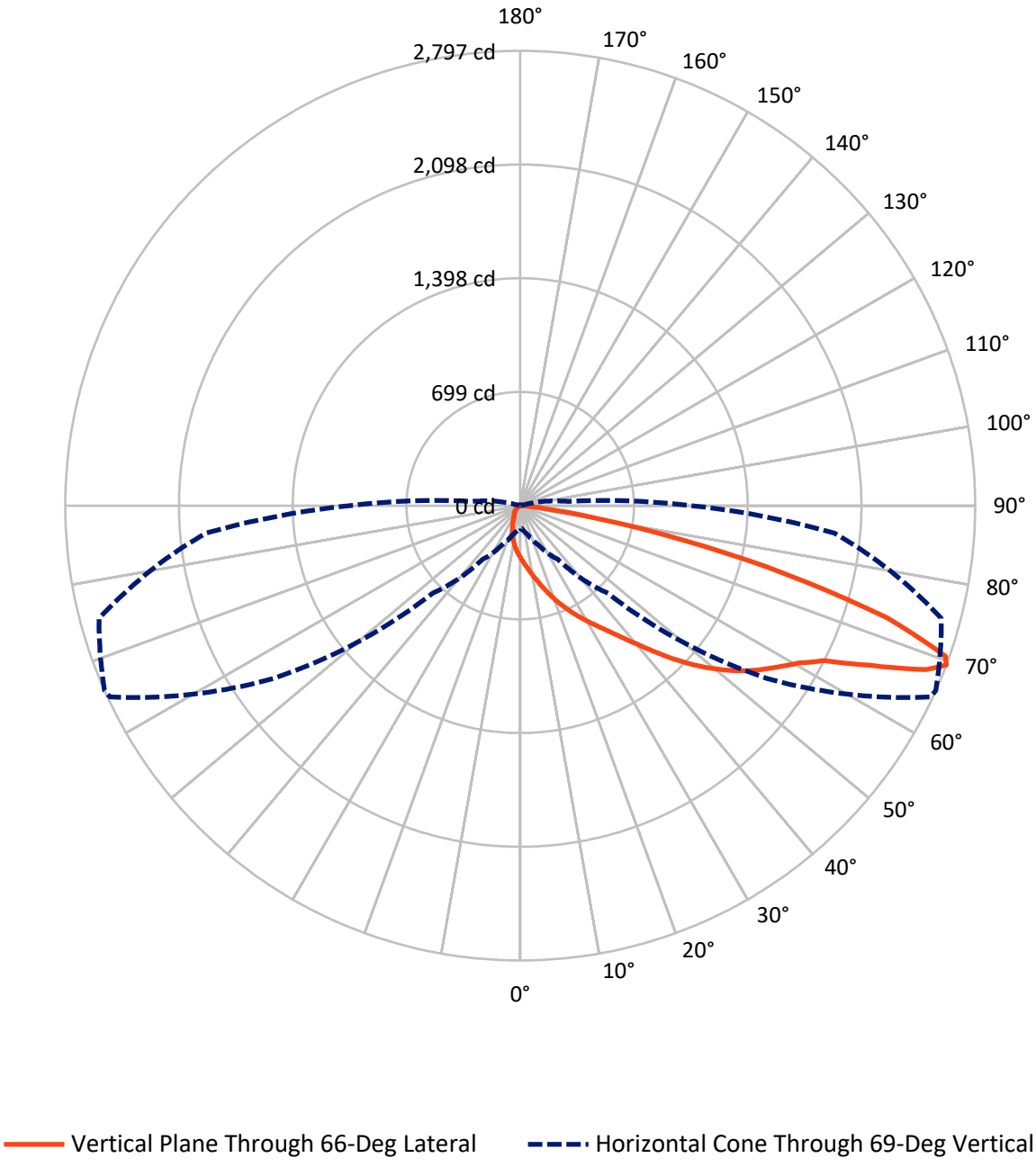
Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type II - Medium - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385610
CATALOG NUMBER: GPC-SA1A-830-U-T2-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

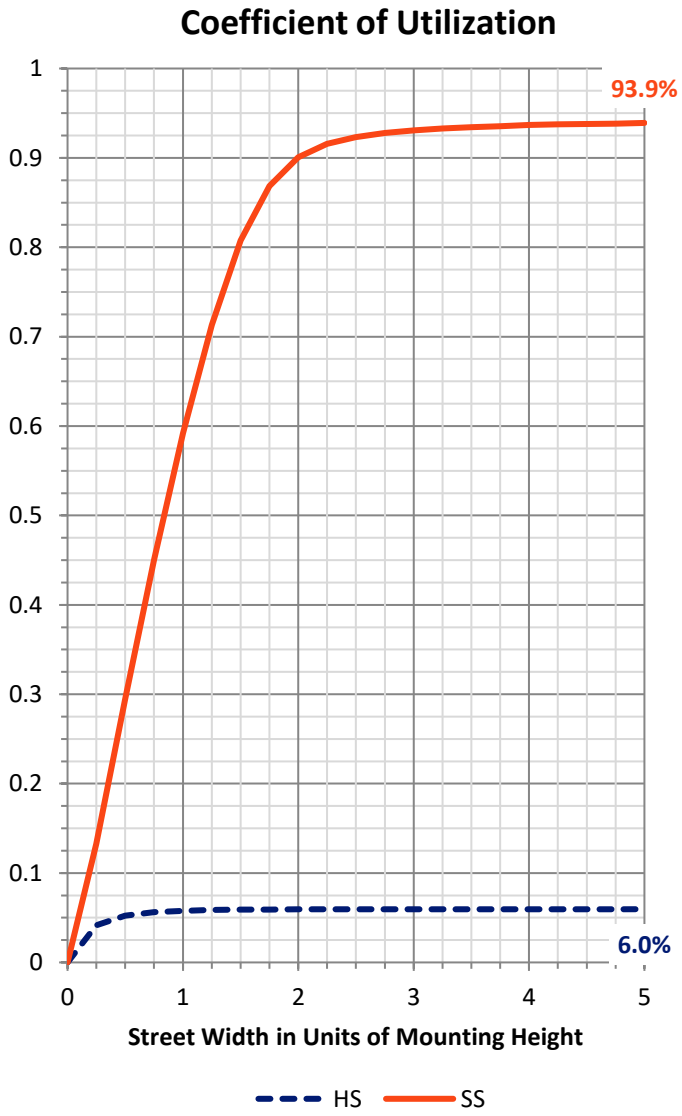
REPORT NUMBER: P385610
CATALOG NUMBER: GPC-SA1A-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	168.7	0.0	168.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	2643.3	0.0	2643.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	2812.0	0.0	2812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.1
10°-20°	92.1	3.3
20°-30°	160.3	5.7
30°-40°	281.3	10.0
40°-50°	470.8	16.7
50°-60°	692.1	24.6
60°-70°	710.6	25.3
70°-80°	350.8	12.5
80°-90°	23.2	0.8
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°	2812.0	100.0
0°-180°	2812.0	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

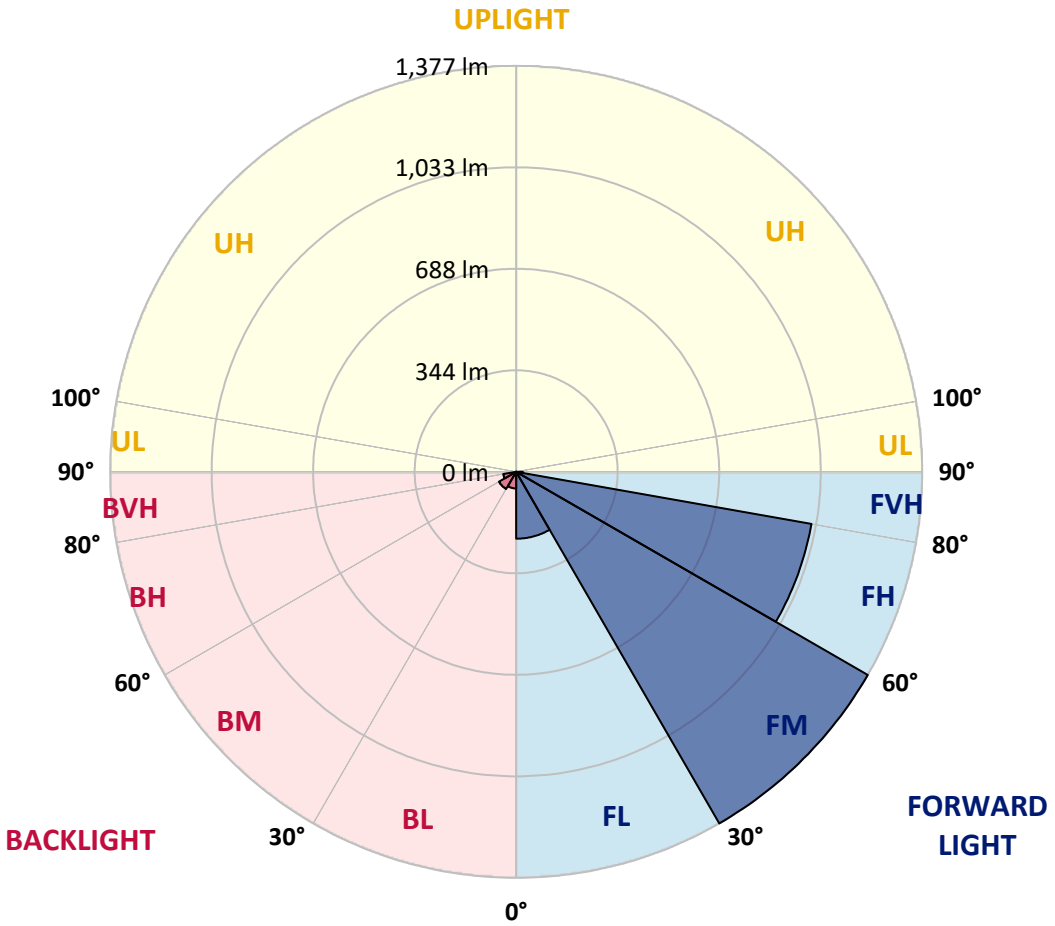
Scaled Data Report

REPORT NUMBER: P385610
CATALOG NUMBER: GPC-SA1A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	226.9	8.1			
FM	(30°-60°)	1376.9	49.0			
FH	(60°-80°)	1016.9	36.2			G1/1800
FVH	(80°-90°)	22.6	0.8			G1/100
BL	(0°-30°)	56.4	2.0	B0/110		
BM	(30°-60°)	67.3	2.4	B0/220		
BH	(60°-80°)	44.5	1.6	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type II Medium



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385610
CATALOG NUMBER: GPC-SA1A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	*320.0*	320.0	320.0
2.5°	376.6	375.0	374.4	371.4	366.4	362.5	355.0	346.3	*344.7*	336.3	326.0
5°	425.5	424.2	423.3	419.1	413.9	404.2	390.5	374.4	*371.3*	355.3	334.7
7.5°	459.6	462.0	462.0	459.3	452.8	445.4	428.7	406.7	*402.8*	378.2	346.3
10°	479.5	482.4	484.7	487.0	486.0	483.1	467.3	442.5	*437.8*	405.2	359.8
12.5°	481.4	484.3	490.7	500.2	509.4	516.1	506.2	482.2	*476.8*	436.5	375.8
15°	470.9	474.0	483.9	502.3	524.6	544.1	547.3	526.1	*520.6*	473.7	395.9
17.5°	452.8	454.8	468.9	494.4	529.4	565.2	584.6	573.2	*568.2*	516.4	418.2
20°	439.3	440.8	453.2	480.6	526.5	578.5	619.9	623.3	*618.0*	562.0	442.4
22.5°	462.4	465.1	465.5	478.4	518.5	585.0	650.8	672.6	*668.6*	610.5	466.1
25°	525.6	528.6	518.5	510.5	525.3	587.9	677.4	723.1	*719.9*	662.7	490.0
27.5°	609.0	612.2	599.2	575.3	561.0	599.0	701.1	774.4	*774.3*	718.0	515.8
30°	691.0	694.3	680.9	657.0	624.1	630.4	721.5	828.1	*828.9*	775.1	543.2
32.5°	777.1	781.1	767.3	736.6	702.3	684.6	750.2	882.0	*886.6*	841.2	574.0
35°	874.8	875.4	856.0	823.8	784.3	757.2	796.3	942.5	*953.4*	923.0	613.2
37.5°	970.7	974.6	958.7	908.0	871.6	840.9	864.8	1018.1	*1033.5*	1023.1	664.3
40°	1041.8	1049.9	1047.7	992.9	958.4	936.5	949.9	1108.0	*1127.5*	1139.6	728.8
42.5°	1086.4	1092.5	1103.0	1070.0	1038.7	1042.3	1050.3	1212.7	*1236.8*	1272.3	803.0
45°	1137.5	1140.5	1149.2	1134.6	1113.5	1149.8	1156.9	1330.7	*1355.9*	1415.1	885.2
47.5°	1200.1	1207.0	1209.4	1196.0	1186.4	1244.9	1259.6	1437.9	*1473.3*	1568.0	972.3
50°	1279.7	1281.5	1285.7	1277.0	1267.4	1326.7	1351.8	1550.5	*1582.7*	1721.5	1058.2
52.5°	1357.5	1364.2	1378.6	1373.2	1369.3	1396.3	1433.9	1652.0	*1688.0*	1849.4	1144.0
55°	1380.0	1385.7	1435.5	1469.6	1501.1	1482.0	1512.5	1743.0	*1781.9*	1963.8	1226.5
57.5°	1290.3	1302.0	1388.2	1476.9	1607.7	1615.3	1620.4	1836.3	*1871.2*	2051.4	1312.4
60°	1063.8	1066.1	1207.7	1359.8	1590.1	1731.6	1778.0	1936.6	*1965.9*	2133.0	1415.2
62.5°	676.6	699.7	855.1	1069.8	1403.6	1714.8	1968.6	2088.4	*2099.1*	2230.9	1562.7
65°	322.3	337.2	449.2	661.0	1016.7	1499.4	2100.1	2362.8	*2367.7*	2425.0	1759.7
67.5°	178.4	185.7	238.9	355.8	594.4	1060.3	2047.0	2687.9	*2692.5*	2623.2	1932.5
69°	*139.6*	*145.7*	*187.7*	*268.2*	*403.0*	*762.1*	*1852.4*	*2783.2*	*2796.7*	*2679.9*	*1938.7*
70°	118.5	124.5	161.6	226.5	324.0	588.9	1648.8	2759.5	*2773.8*	2674.6	1892.8
72.5°	72.5	76.0	107.7	159.5	217.2	296.2	1016.8	2333.7	*2357.9*	2453.4	1626.8
75°	48.9	50.8	67.3	110.1	155.3	152.5	528.2	1644.9	*1697.3*	1908.5	1201.5
77.5°	35.0	36.7	45.1	71.2	108.9	100.7	239.2	1022.3	*1033.5*	1144.6	655.3
80°	19.9	21.5	31.9	42.3	73.9	67.2	95.1	488.3	*493.9*	490.8	218.8
82.5°	10.4	11.8	17.5	27.9	47.4	43.9	39.5	163.5	*164.3*	136.6	47.9
85°	2.0	2.4	8.7	19.1	24.4	19.1	16.2	38.3	*39.1*	34.6	11.9
87.5°	0.0	0.1	3.5	4.3	4.8	4.9	5.2	7.5	*8.0*	10.8	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385610
CATALOG NUMBER: GPC-SA1A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0
2.5°	321.5	316.7	307.5	296.8	288.5	280.3	273.9	267.3	264.9	263.7	263.5
5°	324.7	314.5	295.0	275.0	258.6	243.1	232.0	221.4	216.5	214.2	213.3
7.5°	330.0	313.7	282.4	251.8	228.1	208.8	193.4	181.9	176.2	173.8	172.8
10°	336.3	312.7	267.5	227.2	197.0	177.0	161.7	150.4	144.1	141.4	140.1
12.5°	343.7	310.8	250.4	202.3	170.4	150.4	132.0	117.9	110.7	107.7	106.2
15°	352.7	308.9	232.5	179.0	147.1	122.6	102.4	93.0	91.5	91.0	91.1
17.5°	361.7	306.0	213.0	155.9	122.5	95.8	85.5	84.9	85.2	85.2	85.2
20°	369.7	299.3	191.8	136.1	99.1	80.8	78.7	77.7	77.1	76.5	75.9
22.5°	376.0	290.4	171.4	116.5	80.9	74.0	70.7	67.7	65.3	63.7	62.9
25°	380.3	278.5	152.7	97.6	72.8	67.3	61.3	56.4	52.6	50.4	49.4
27.5°	383.5	265.7	136.0	81.7	67.2	59.6	51.7	45.8	41.9	39.9	39.1
30°	385.7	251.1	121.3	71.9	60.9	51.4	43.0	37.3	34.5	33.4	32.9
32.5°	387.9	234.9	107.4	67.2	55.0	43.9	36.1	31.7	29.9	28.6	28.2
35°	393.2	220.0	94.2	62.2	49.0	37.5	31.0	27.8	26.0	25.2	25.0
37.5°	405.9	208.9	81.5	57.2	43.0	32.5	27.1	24.8	23.2	22.4	22.2
40°	426.3	203.3	70.8	51.7	37.1	28.6	24.6	22.4	20.7	19.5	19.2
42.5°	456.4	204.1	63.3	46.2	32.5	25.5	22.2	19.6	17.8	16.7	16.4
45°	492.8	210.0	58.1	40.9	28.6	23.1	19.5	16.8	15.1	14.2	13.9
47.5°	532.4	219.4	53.8	36.1	25.5	20.8	16.8	14.0	12.6	11.8	11.6
50°	574.0	228.7	49.4	31.4	22.8	18.6	14.2	11.6	10.4	9.8	9.5
52.5°	616.3	239.3	45.4	27.1	20.6	15.9	11.8	9.5	8.5	8.0	7.7
55°	661.7	247.4	41.5	23.8	18.3	13.5	9.8	7.9	7.1	6.4	6.3
57.5°	715.1	259.8	37.5	20.6	15.6	11.2	8.0	6.3	5.6	4.9	4.8
60°	787.2	274.3	33.3	18.2	12.8	9.2	6.5	5.1	4.3	3.7	3.6
62.5°	882.3	290.5	27.9	15.9	10.4	7.5	5.2	4.0	3.1	2.4	2.4
65°	1002.9	316.8	22.8	13.4	8.5	6.1	4.0	2.9	1.7	1.1	1.1
67.5°	1073.3	321.4	18.4	11.0	6.9	5.2	3.3	2.0	0.5	0.1	0.0
69°	*1050.7*	*295.0*	*15.6*	*9.3*	*6.0*	*4.9*	*3.1*	*1.5*	*0.3*	*0.0*	*0.0*
70°	1008.3	269.8	13.8	8.3	5.5	4.7	2.9	1.1	0.3	0.0	0.0
72.5°	833.2	192.1	10.4	6.1	4.0	4.1	2.7	0.7	0.3	0.0	0.0
75°	606.9	116.7	7.5	4.3	2.5	3.1	1.9	0.3	0.1	0.0	0.0
77.5°	337.6	55.0	4.7	2.4	1.6	1.9	0.9	0.0	0.0	0.0	0.0
80°	109.7	15.0	2.1	1.3	0.9	1.1	0.4	0.0	0.0	0.0	0.0
82.5°	20.3	4.3	1.2	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.1	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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

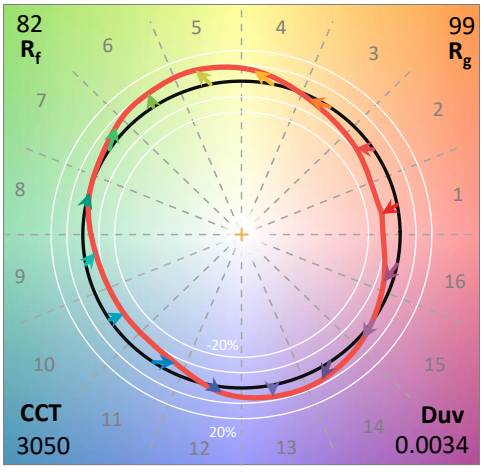
Test Information

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

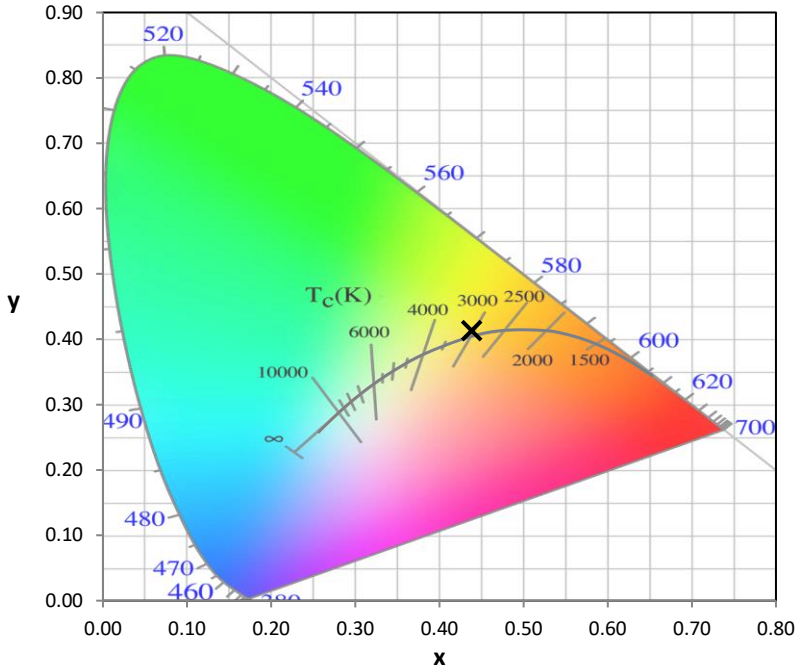
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

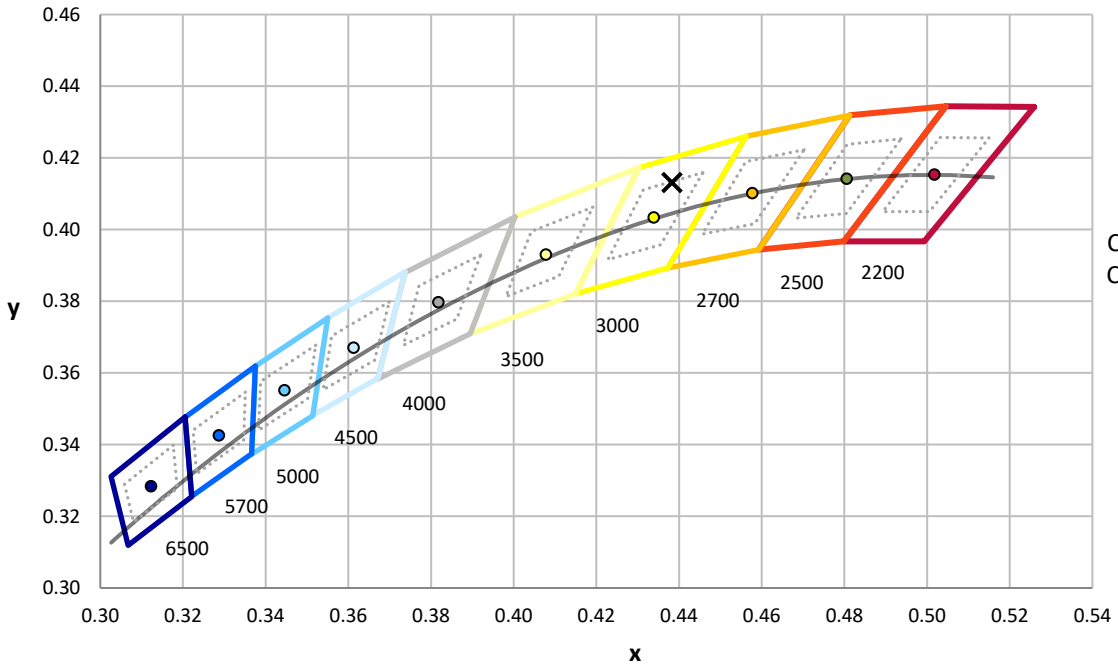
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

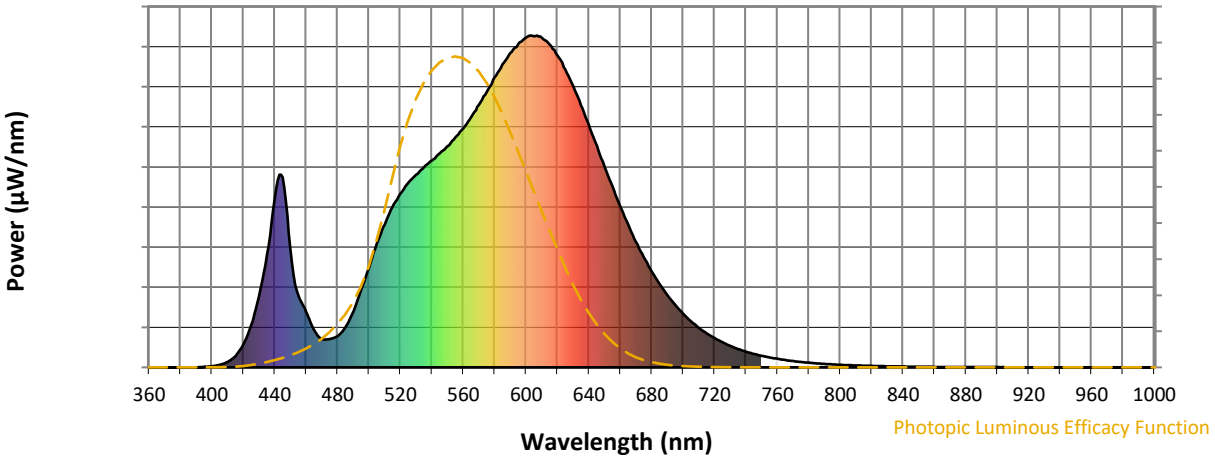


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

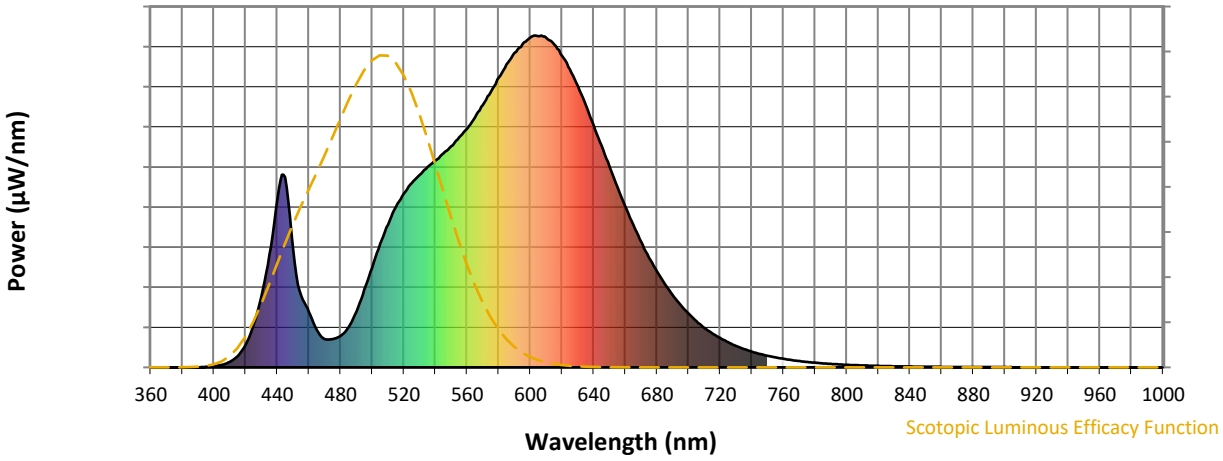


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

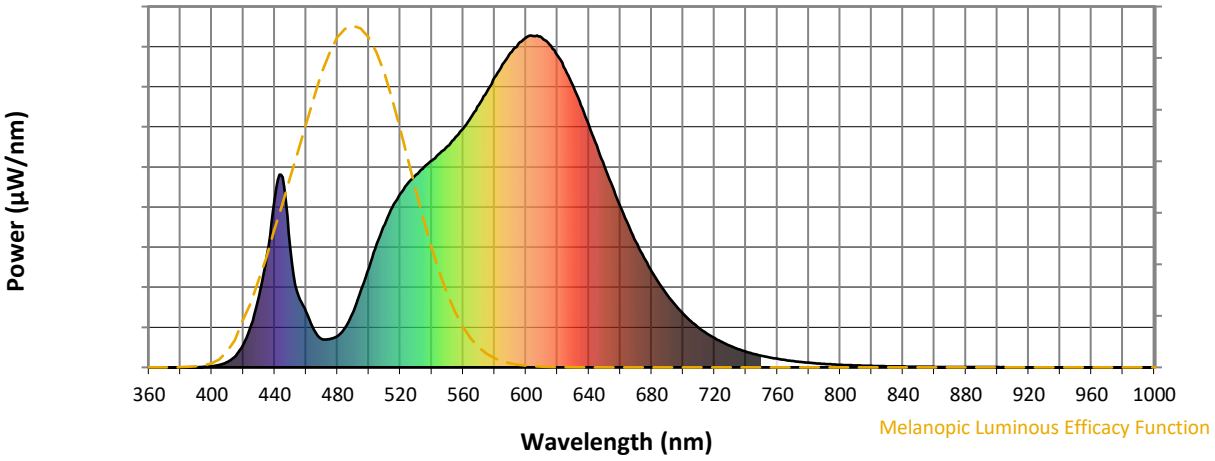


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

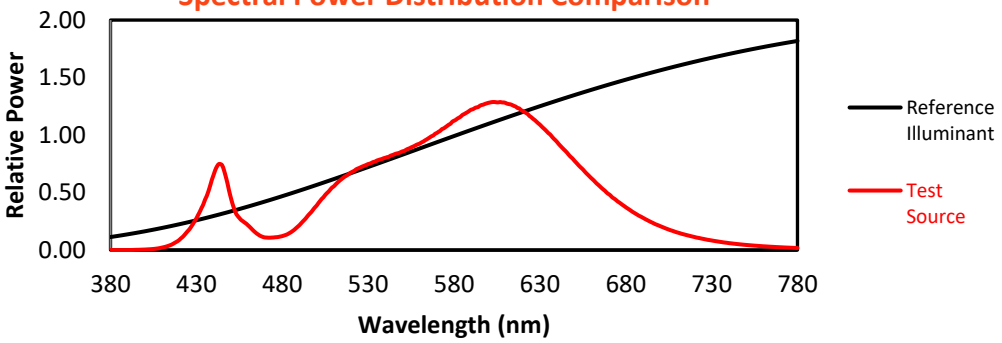
REPORT NUMBER: SP1-2408-195-9

TM-30-18

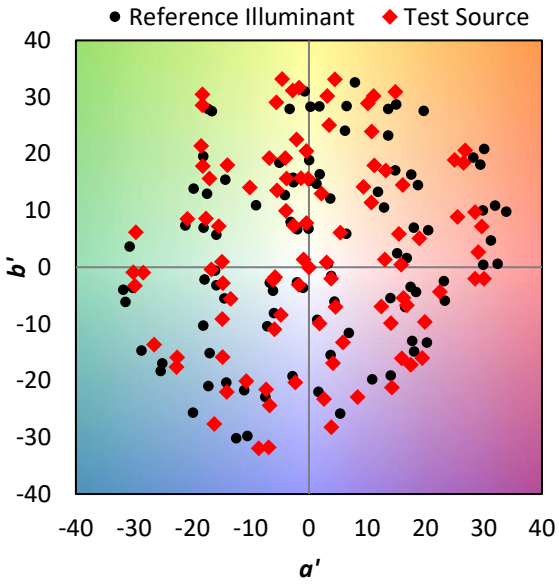
Summary

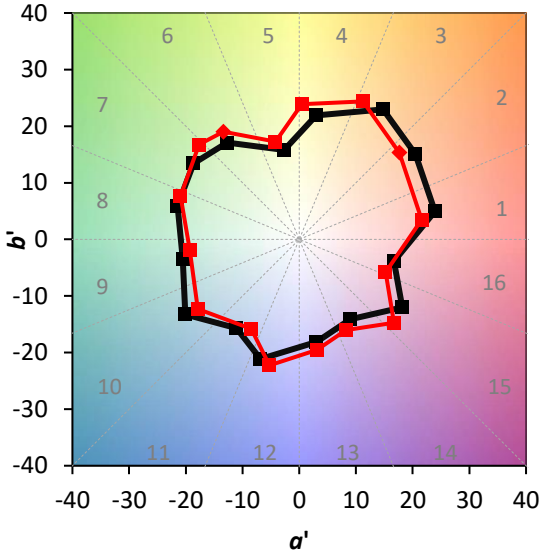
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

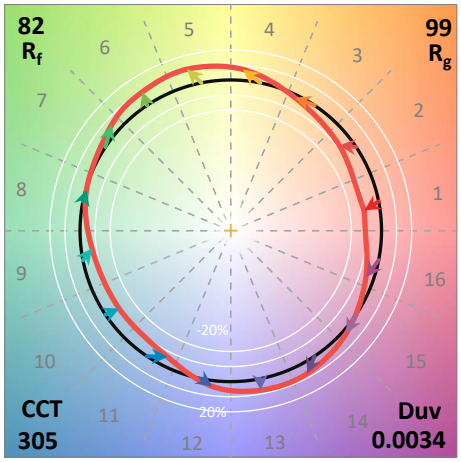
Spectral Power Distribution Comparison

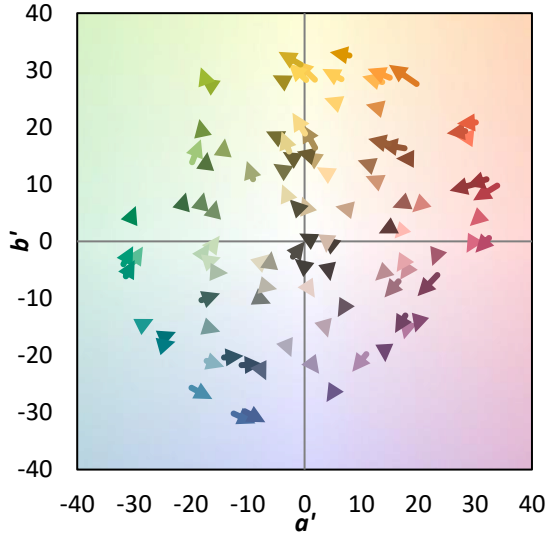


Color Vector Graphics







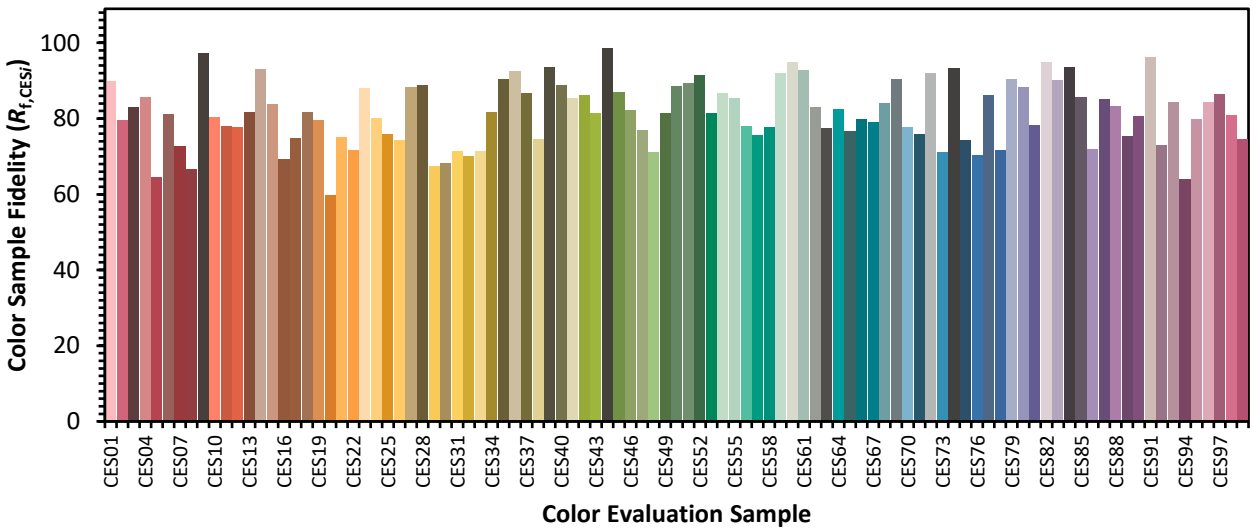


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

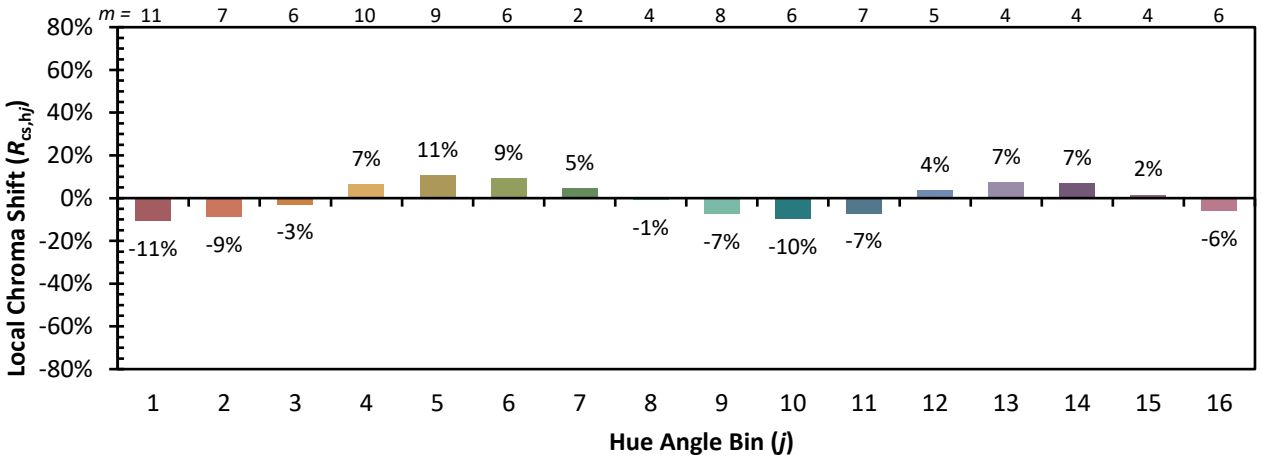
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

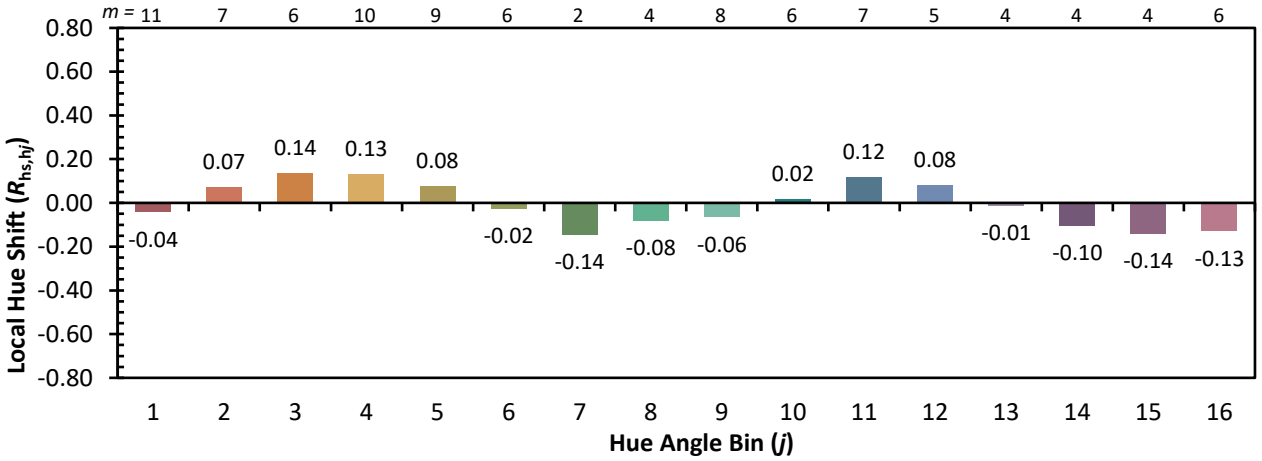


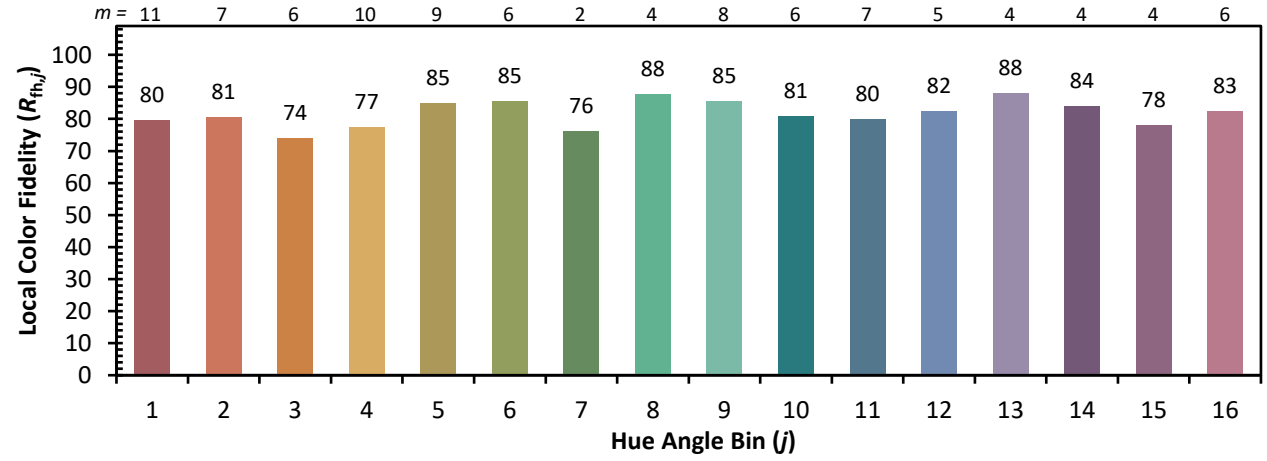
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



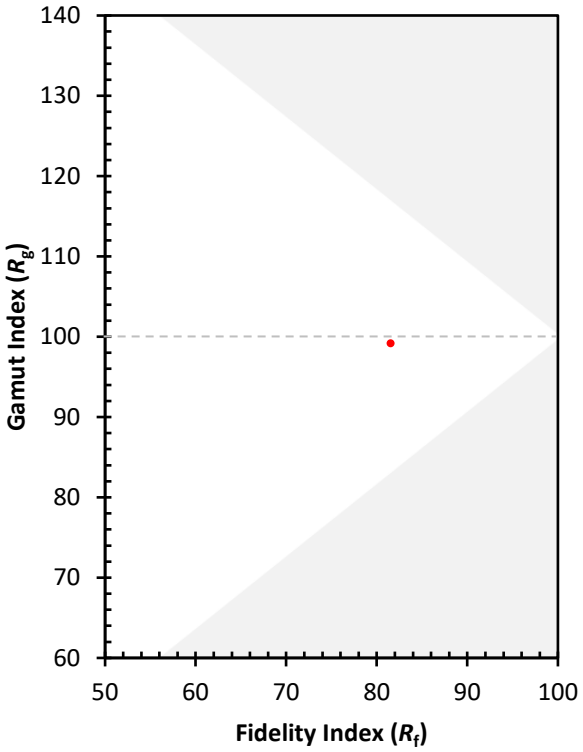


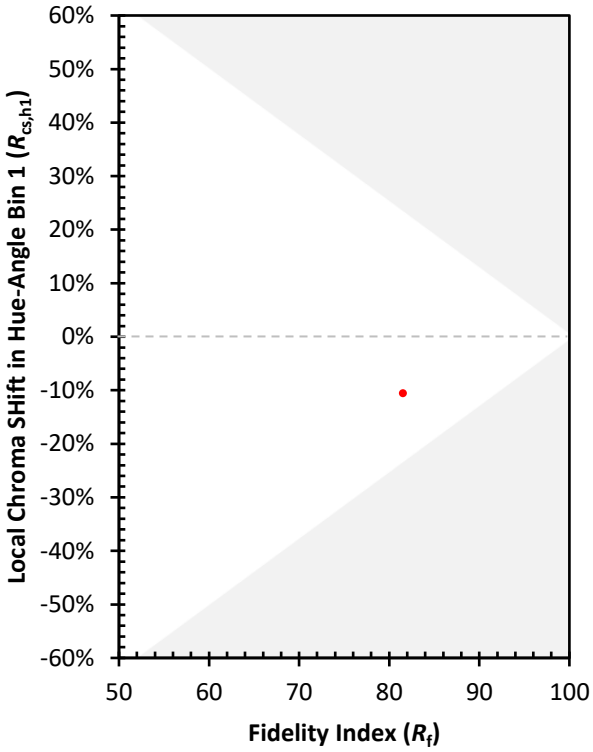


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)