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: P385825

Luminaire Tested: **GPC-SA1B-830-U-SL2**

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:	P385825
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
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
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4751 lumens
Efficiency:	N/A
Efficacy:	108.0 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):	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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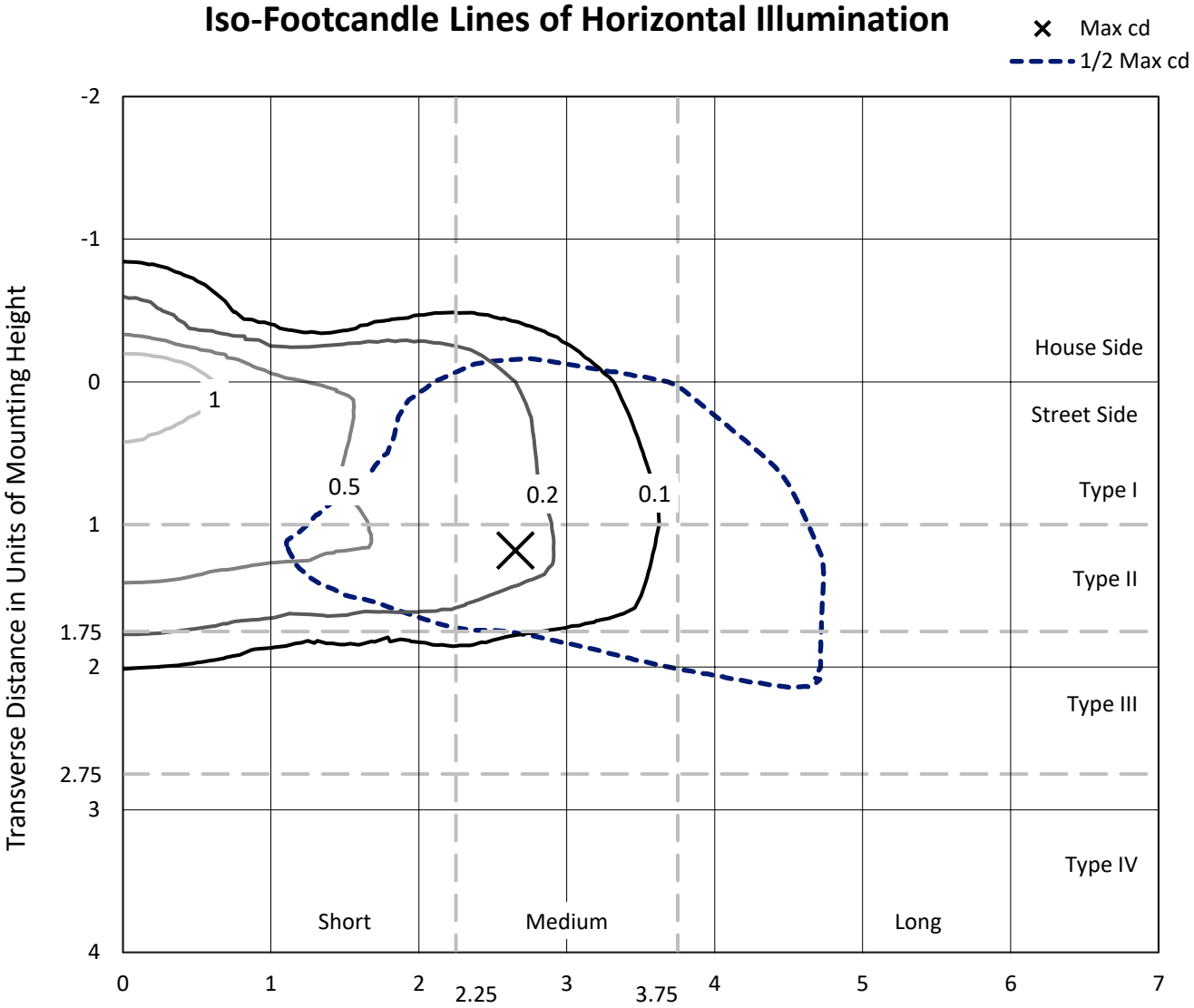
REPORT NUMBER: P385825
CATALOG NUMBER: GPC-SA1B-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Medium - N/A

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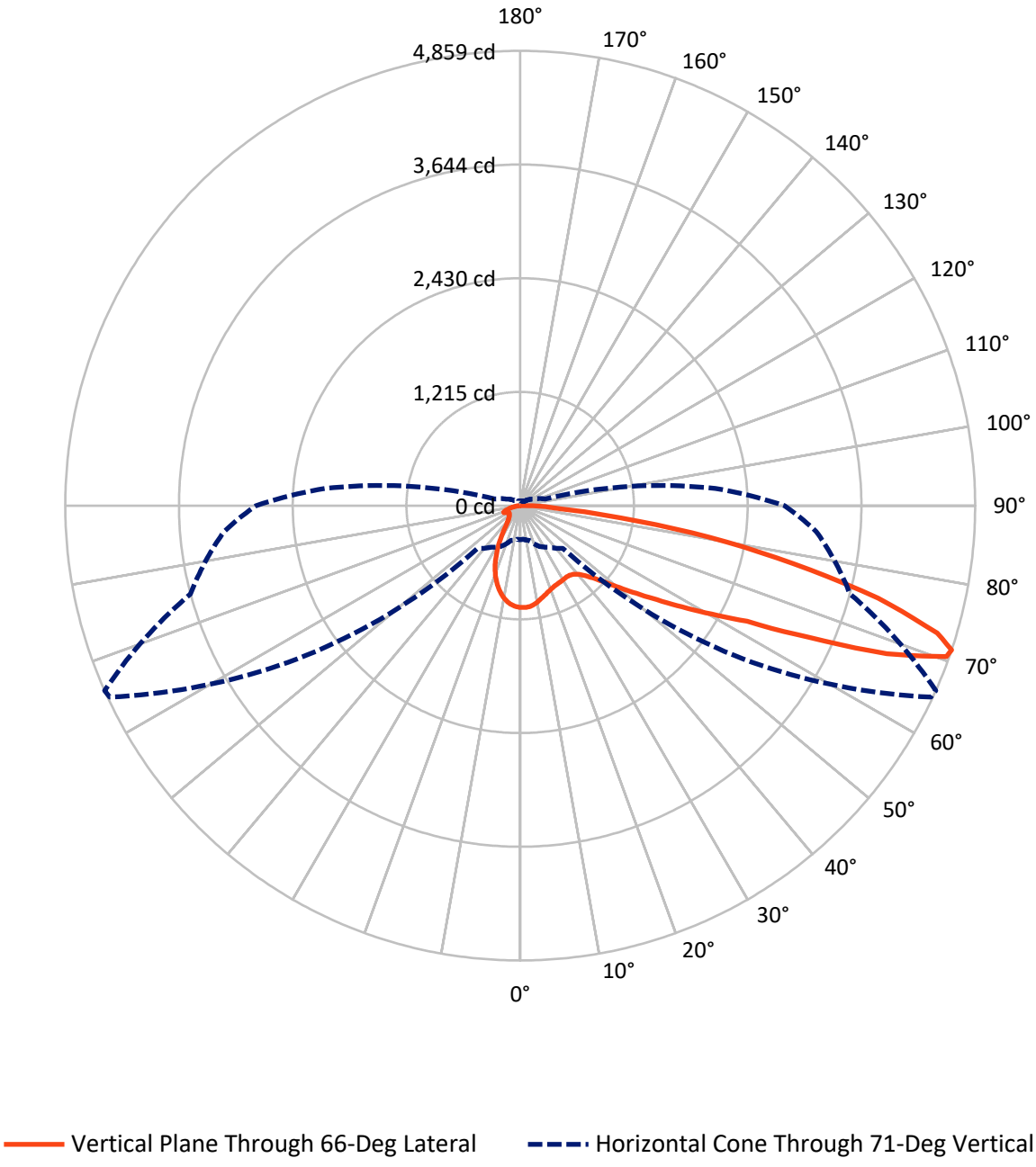
Luminous Intensity Polar Plot



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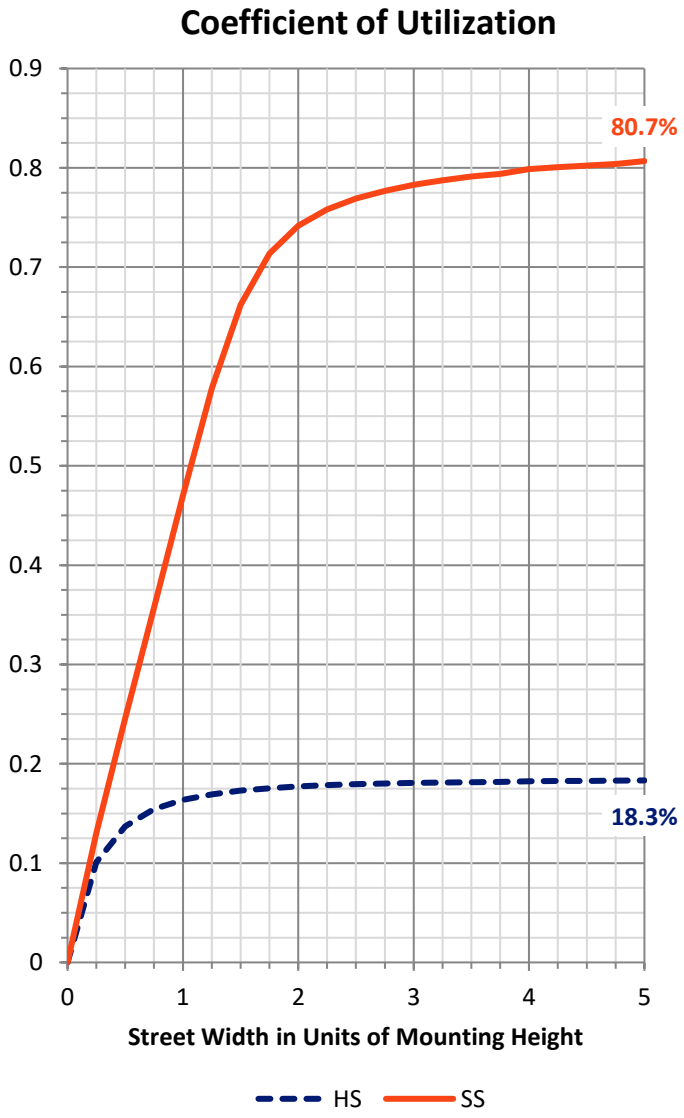
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.5	0.0	880.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3870.5	0.0	3870.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	4751.0	0.0	4751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	2.0
10°-20°	229.8	4.8
20°-30°	308.6	6.5
30°-40°	406.0	8.5
40°-50°	590.6	12.4
50°-60°	922.7	19.4
60°-70°	1155.8	24.3
70°-80°	881.6	18.6
80°-90°	160.1	3.4
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°	4751.0	100.0
0°-180°	4751.0	100.0



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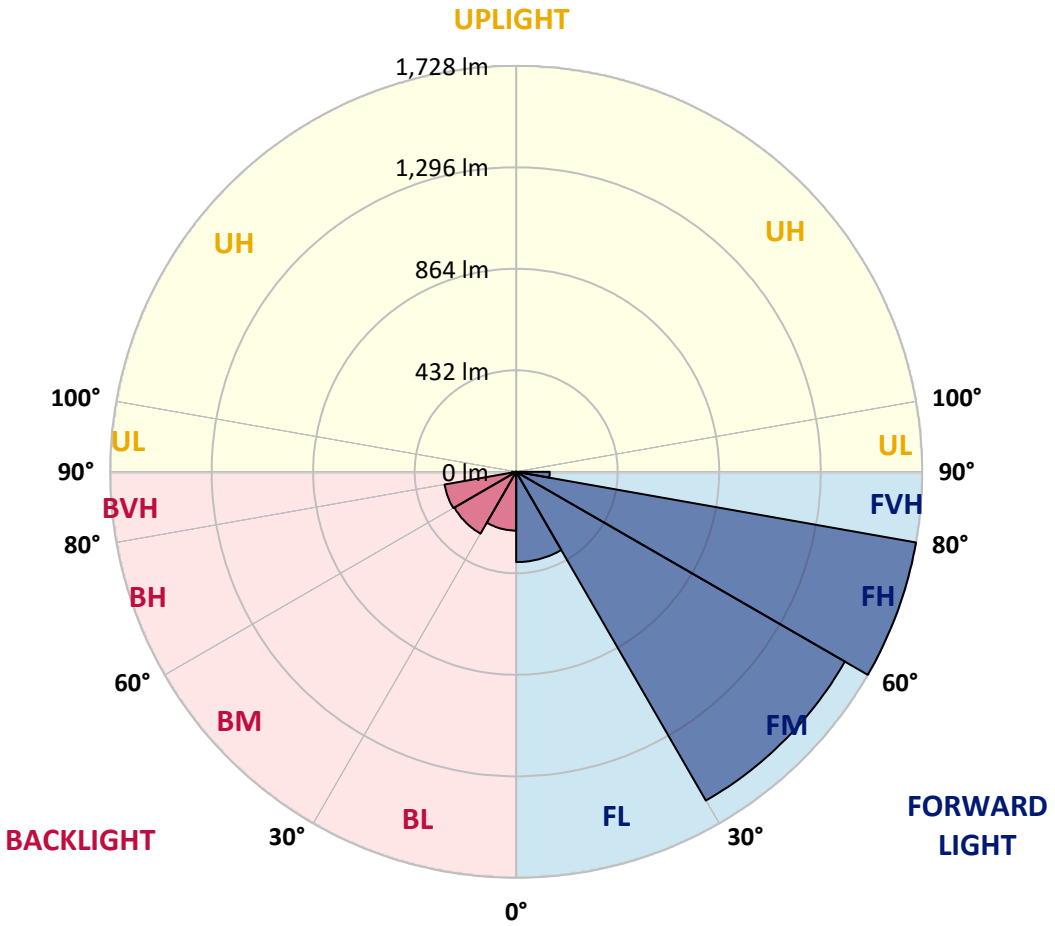
REPORT NUMBER: P385825
CATALOG NUMBER: GPC-SA1B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	384.2	8.1			
FM	(30°-60°)	1615.6	34.0			
FH	(60°-80°)	1728.0	36.4			G1/1800
FVH	(80°-90°)	142.8	3.0			G2/225
BL	(0°-30°)	250.0	5.3	B1/500		
BM	(30°-60°)	303.7	6.4	B1/1000		
BH	(60°-80°)	309.4	6.5	B1/500		G1/500
BVH	(80°-90°)	17.3	0.4			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: P385825
CATALOG NUMBER: GPC-SA1B-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	*1088.4*	1088.4	1088.4
2.5°	1068.2	1066.5	1071.5	1076.6	1078.5	1081.8	1086.7	1089.5	*1089.3*	1089.8	1088.2
5°	997.3	995.2	1005.0	1013.1	1028.5	1045.9	1067.0	1082.1	*1082.5*	1091.0	1093.3
7.5°	930.2	928.8	940.1	953.0	970.9	997.5	1031.8	1064.2	*1066.2*	1089.3	1097.4
10°	876.4	876.1	887.1	901.2	922.0	951.7	991.1	1038.7	*1041.6*	1081.5	1098.0
12.5°	834.4	835.1	844.6	860.7	882.7	913.7	956.3	1010.0	*1014.7*	1069.0	1094.3
15°	803.4	806.1	813.8	830.0	851.7	883.2	927.0	983.4	*990.6*	1055.1	1092.1
17.5°	785.7	788.7	794.1	807.5	827.9	858.2	899.7	961.6	*968.1*	1044.4	1092.3
20°	780.5	782.9	786.0	794.3	811.5	839.0	878.2	941.9	*948.9*	1035.9	1093.9
22.5°	790.8	792.6	792.9	792.3	802.8	825.3	862.7	927.4	*935.0*	1030.3	1095.1
25°	812.9	815.4	813.6	807.5	804.1	817.9	854.6	917.9	*925.5*	1026.2	1092.8
27.5°	846.2	846.6	845.1	837.2	821.0	818.7	852.2	912.4	*919.6*	1021.4	1088.0
30°	891.5	893.7	891.0	880.4	853.8	831.8	855.1	906.9	*913.5*	1015.4	1080.3
32.5°	944.5	949.8	949.6	938.4	900.4	861.2	867.2	903.7	*908.7*	1009.0	1071.0
35°	999.5	1006.7	1020.1	1015.4	968.3	907.6	890.5	908.9	*912.4*	1008.1	1064.4
37.5°	1056.5	1063.8	1091.5	1104.3	1049.2	974.0	927.3	927.4	*929.1*	1018.2	1063.9
40°	1116.2	1124.0	1165.6	1198.9	1154.0	1058.2	986.5	966.2	*964.4*	1042.8	1073.6
42.5°	1199.9	1206.8	1256.8	1299.3	1270.3	1165.9	1068.4	1025.9	*1022.1*	1091.0	1104.6
45°	1305.7	1311.6	1364.8	1410.2	1395.3	1289.0	1171.2	1108.0	*1107.4*	1171.4	1167.4
47.5°	1431.5	1436.1	1483.8	1527.8	1533.2	1430.5	1300.5	1234.8	*1224.2*	1281.6	1264.7
50°	1562.6	1567.7	1600.1	1647.4	1687.6	1620.0	1466.8	1390.2	*1375.9*	1427.1	1402.5
52.5°	1649.4	1656.1	1684.3	1744.2	1861.1	1827.7	1663.5	1578.5	*1556.8*	1603.4	1584.6
55°	1610.6	1625.7	1668.9	1764.8	1999.9	2144.9	1906.1	1798.1	*1773.7*	1812.4	1801.3
57.5°	1434.6	1455.3	1514.2	1662.3	2019.4	2424.4	2272.8	2056.8	*2039.6*	2028.4	2033.5
60°	1113.0	1132.8	1205.8	1398.9	1883.4	2628.5	2824.8	2375.7	*2350.8*	2245.3	2249.9
62.5°	787.7	777.7	827.7	968.9	1530.4	2652.4	3452.9	2802.2	*2720.2*	2474.3	2454.1
65°	600.7	598.4	620.9	665.8	927.0	2365.9	3827.1	3519.0	*3390.9*	2743.6	2696.1
67.5°	493.6	489.5	511.6	577.1	596.9	1526.3	3835.3	4350.7	*4224.8*	3078.9	2975.9
70°	405.8	401.2	421.9	506.4	551.6	774.1	3227.9	4837.7	*4830.9*	3503.4	3187.2
71°	*363.8*	*360.5*	*385.3*	*479.1*	*542.0*	*645.1*	*2786.9*	*4839.0*	*4859.2*	*3647.1*	*3174.7*
72.5°	296.2	297.4	323.6	426.5	534.7	569.7	2048.3	4613.4	*4656.1*	3784.1	3061.4
75°	196.8	197.8	232.3	328.1	518.5	557.4	1125.8	3871.2	*3949.6*	3702.1	2793.5
77.5°	132.2	131.9	155.3	225.1	451.7	557.4	660.1	2895.4	*2981.5*	2945.7	2153.6
80°	91.0	90.4	106.9	155.3	342.0	564.1	510.3	2029.1	*2055.2*	1590.8	875.3
82.5°	55.8	56.3	69.9	109.7	232.8	507.7	481.8	1106.4	*1078.0*	446.2	218.7
85°	32.0	31.8	44.6	74.3	149.4	428.5	469.8	476.2	*436.8*	134.3	79.1
87.5°	11.5	12.3	23.9	41.2	85.6	298.4	398.6	247.7	*223.2*	60.7	35.8
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: P385825
CATALOG NUMBER: GPC-SA1B-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1087.0	1088.0	1086.9	1080.3	1074.7	1065.7	1060.6	1053.6	1051.5	1050.5	1053.1
5°	1091.2	1091.5	1081.8	1064.6	1045.2	1022.4	1006.0	985.8	976.3	972.2	974.9
7.5°	1094.9	1093.4	1072.3	1039.3	1003.6	963.9	928.6	896.3	877.4	869.7	870.4
10°	1095.4	1089.2	1055.2	1004.2	948.8	890.5	836.4	786.5	755.0	734.5	740.8
12.5°	1090.3	1079.8	1030.1	958.8	881.8	802.5	729.3	654.5	609.5	588.7	589.4
15°	1086.4	1067.4	999.3	905.3	802.0	696.8	596.9	509.0	461.1	439.8	429.8
17.5°	1083.1	1053.9	963.5	845.1	707.6	574.3	454.2	375.8	349.6	343.3	340.7
20°	1078.5	1039.6	923.7	775.4	600.2	437.1	331.7	293.0	293.1	300.3	301.3
22.5°	1072.1	1023.4	881.2	697.1	484.9	318.4	260.0	248.8	260.2	273.9	276.4
25°	1062.6	1004.2	833.9	610.7	369.7	244.7	222.1	221.6	235.4	249.8	252.0
27.5°	1049.2	979.1	781.5	517.9	272.5	208.0	199.0	202.4	212.6	223.1	223.9
30°	1031.1	949.9	723.6	419.9	213.6	185.2	184.2	187.3	193.6	200.9	201.6
32.5°	1011.3	920.2	661.7	325.1	182.9	172.9	173.9	175.4	178.3	181.3	181.9
35°	993.2	889.9	598.4	247.0	168.3	164.9	164.2	163.9	164.2	163.2	163.4
37.5°	981.6	864.8	532.5	196.7	159.9	157.8	155.8	153.4	150.6	148.9	149.3
40°	977.3	846.1	465.7	169.9	153.0	151.6	147.8	142.5	139.3	138.3	138.3
42.5°	988.8	836.4	401.2	156.5	147.3	144.8	138.6	132.5	130.1	129.9	129.8
45°	1023.9	840.3	339.9	149.1	142.1	137.3	129.1	124.0	122.4	122.7	122.5
47.5°	1086.9	865.1	287.4	144.2	136.8	130.6	121.4	117.3	115.3	115.3	115.5
50°	1194.0	923.0	245.6	140.1	132.4	124.3	115.8	110.7	108.1	107.9	107.9
52.5°	1350.0	1026.7	219.5	136.6	127.5	118.8	110.2	103.8	100.7	100.1	99.7
55°	1545.5	1175.3	212.3	134.3	120.9	112.7	103.5	97.1	93.7	92.2	92.0
57.5°	1764.2	1356.1	226.5	131.6	114.2	105.5	96.1	90.1	86.4	84.6	84.5
60°	1985.5	1553.4	284.8	127.6	108.6	97.6	88.6	83.0	79.4	77.4	77.1
62.5°	2207.1	1761.4	403.7	127.3	104.7	90.1	80.9	76.1	72.7	70.5	70.0
65°	2457.1	1989.1	538.8	136.0	103.3	83.2	73.0	69.2	66.3	64.3	64.1
67.5°	2744.1	2246.1	525.9	153.9	107.8	76.9	65.6	62.7	60.5	58.9	58.7
70°	2878.8	2205.9	326.9	166.5	114.0	70.9	58.6	56.4	54.8	53.6	53.1
71°	*2822.4*	*2094.5*	*274.1*	*165.0*	*113.3*	*68.2*	*55.8*	*54.1*	*52.5*	*51.5*	*51.0*
72.5°	2668.5	1910.2	228.7	153.5	106.0	63.5	52.2	50.5	49.0	47.9	47.6
75°	2394.6	1705.9	183.1	122.7	84.5	53.6	45.8	44.0	42.8	42.2	41.5
77.5°	1760.2	1217.5	141.6	96.9	62.2	43.8	39.0	37.7	36.6	35.6	35.1
80°	674.3	471.6	95.3	72.3	45.6	34.6	31.5	30.8	29.7	29.0	29.0
82.5°	181.6	140.9	50.9	43.8	30.5	25.3	24.1	23.8	22.8	21.5	21.7
85°	73.5	62.2	28.5	24.1	18.7	14.9	16.2	16.4	15.3	13.6	13.8
87.5°	32.3	26.4	15.9	10.7	8.2	5.7	7.4	7.4	6.7	5.6	5.1
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

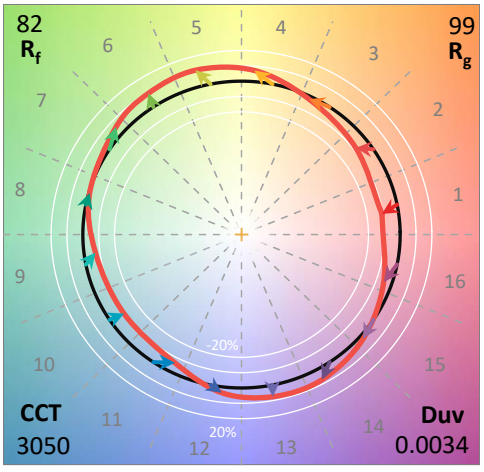
Test Information

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

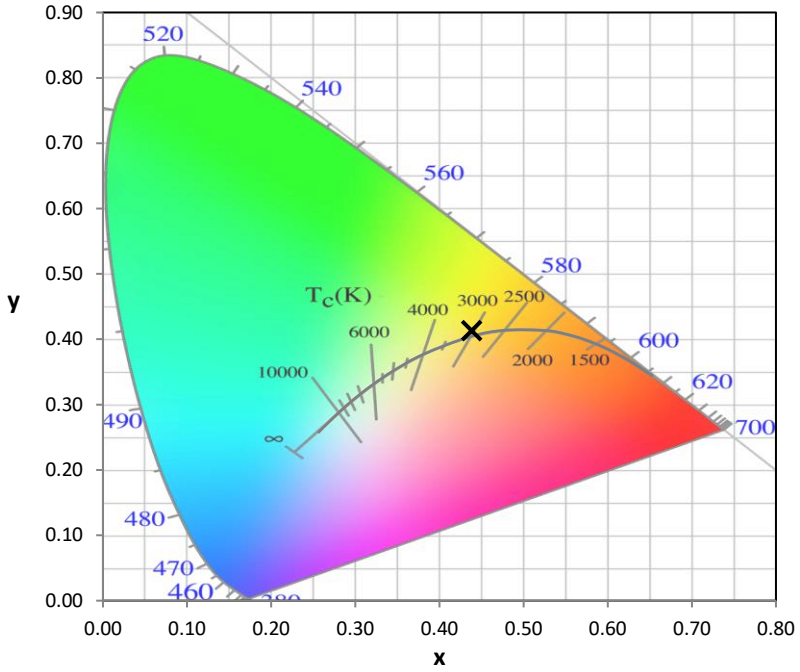
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

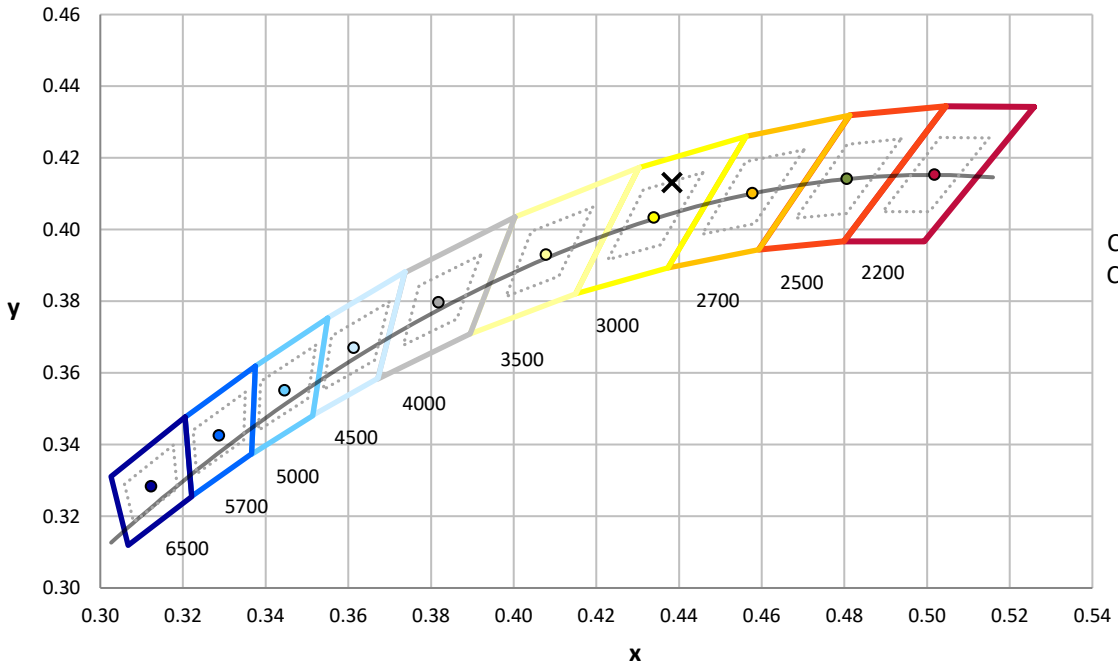
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

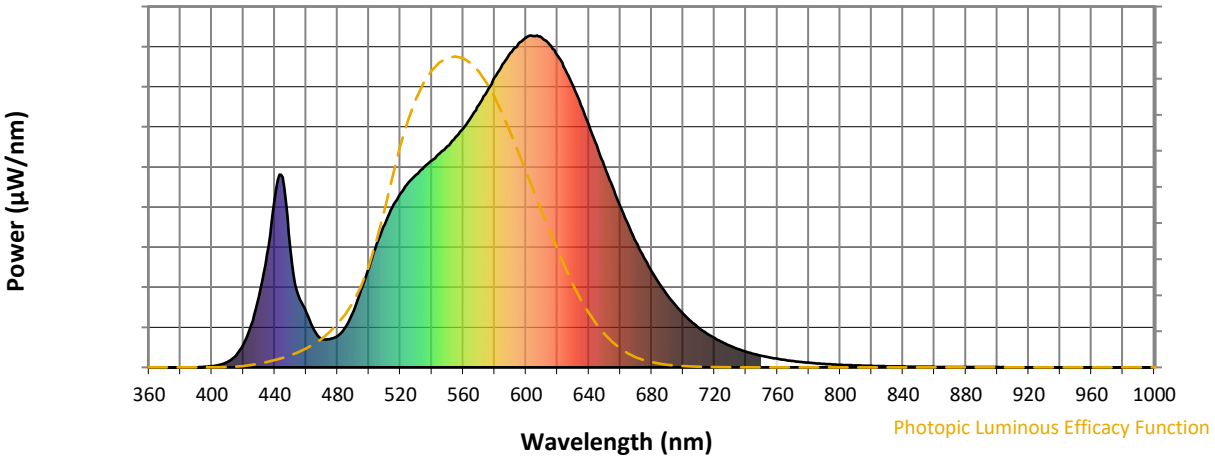


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

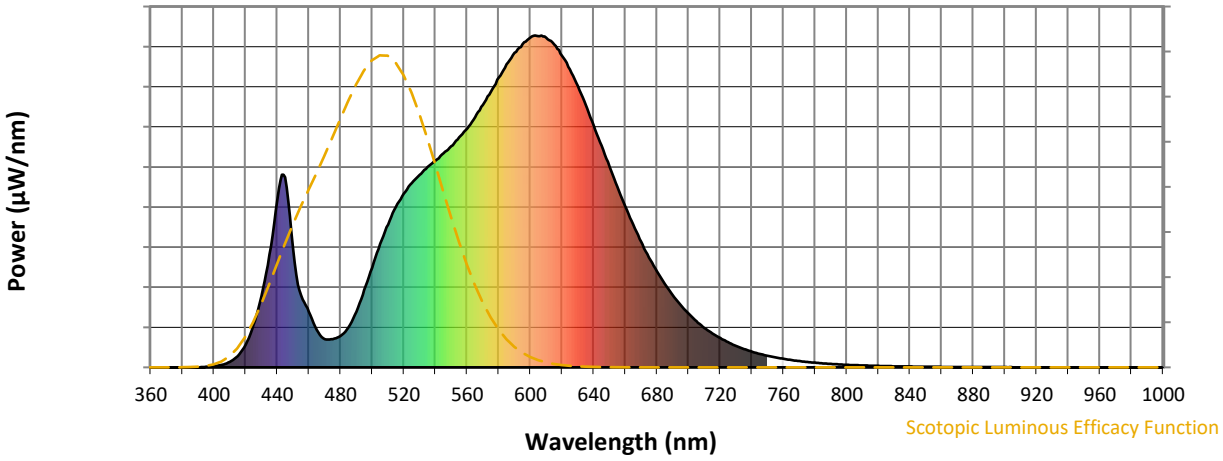


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

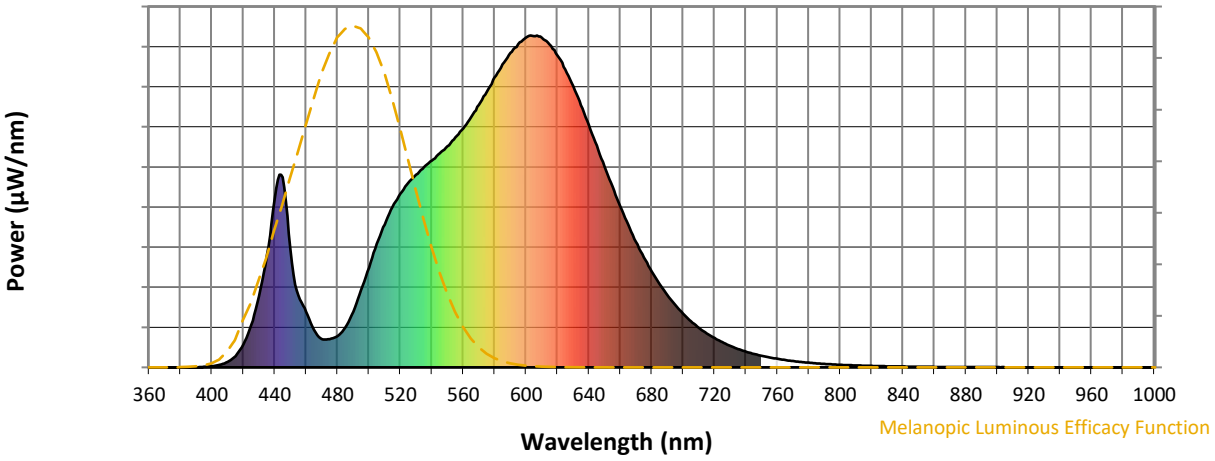


Scotopic Lumens: NR **S/P: 1.27**

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			

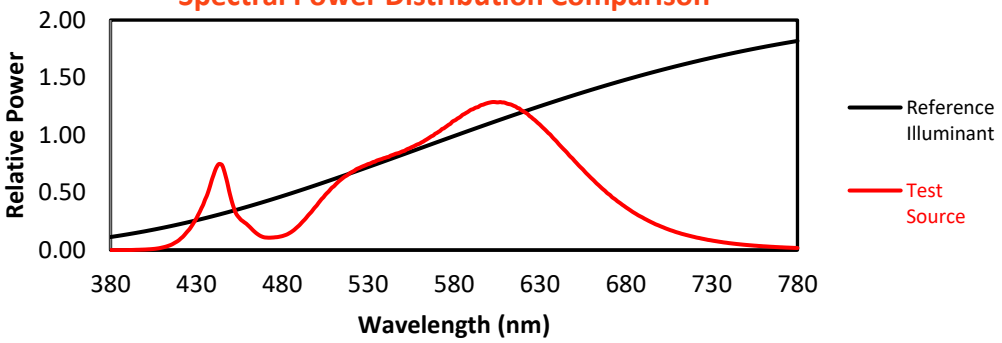
REPORT NUMBER: SP1-2408-195-9

TM-30-18

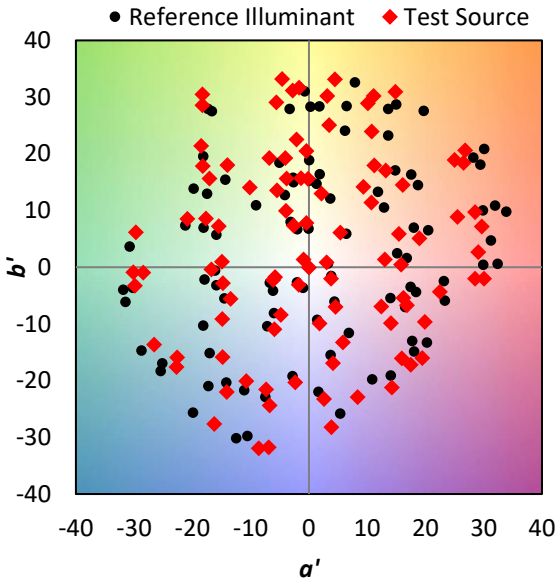
Summary

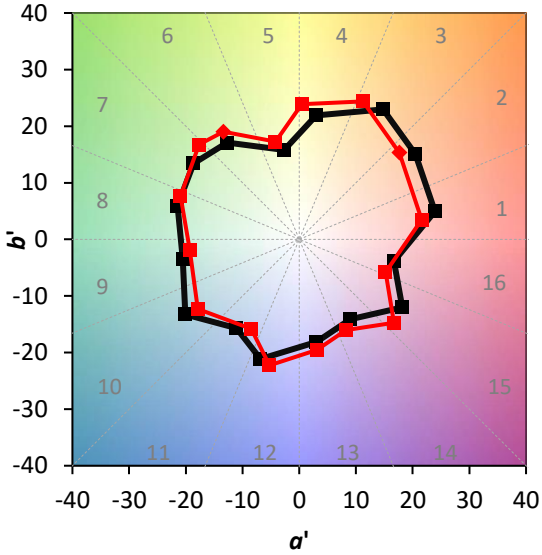
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

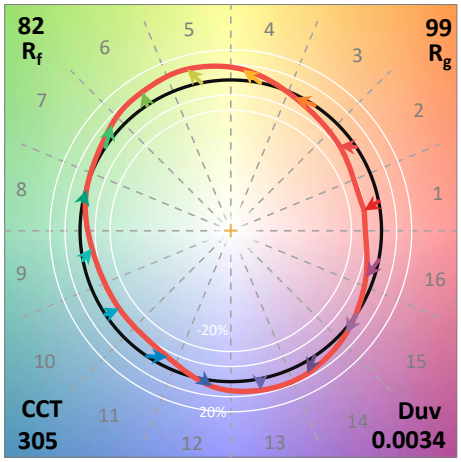
Spectral Power Distribution Comparison

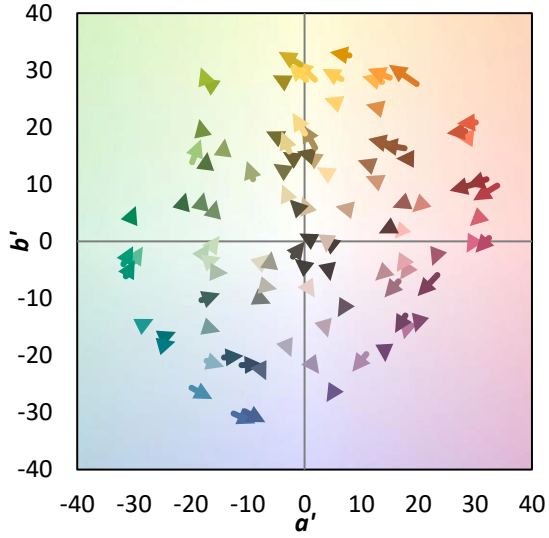


Color Vector Graphics







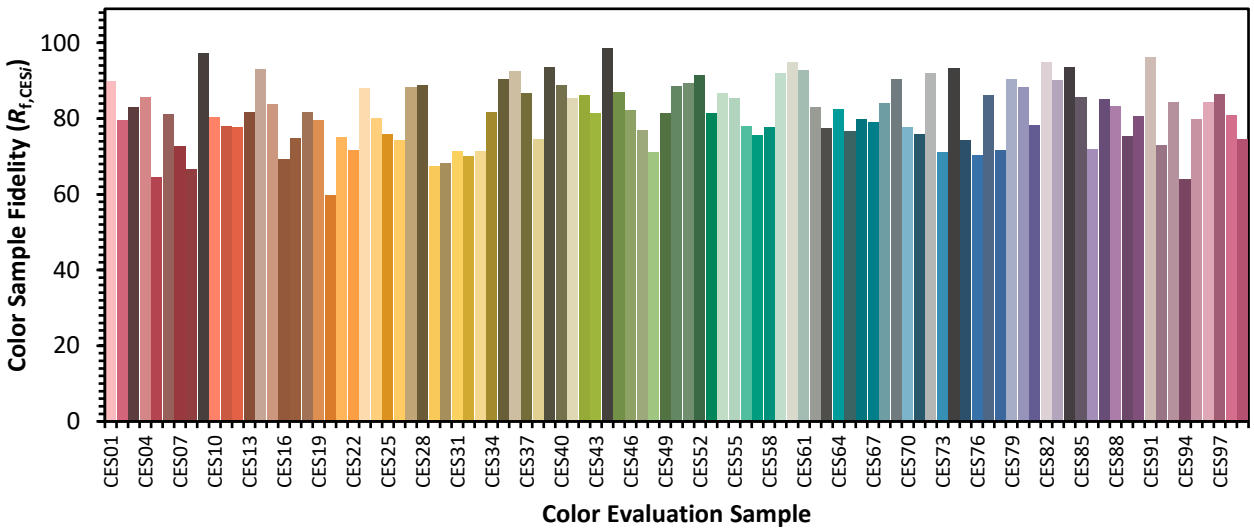


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

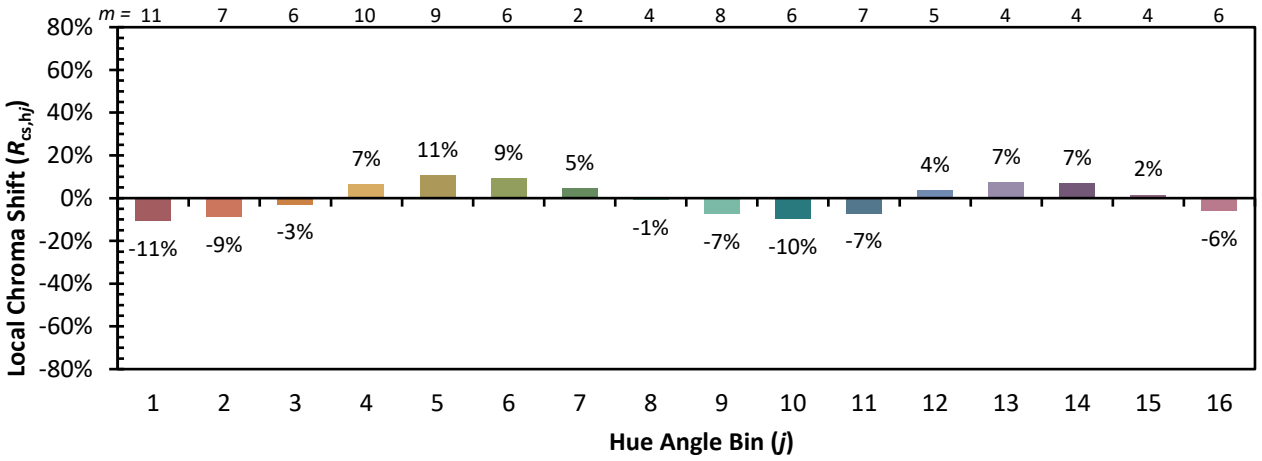
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

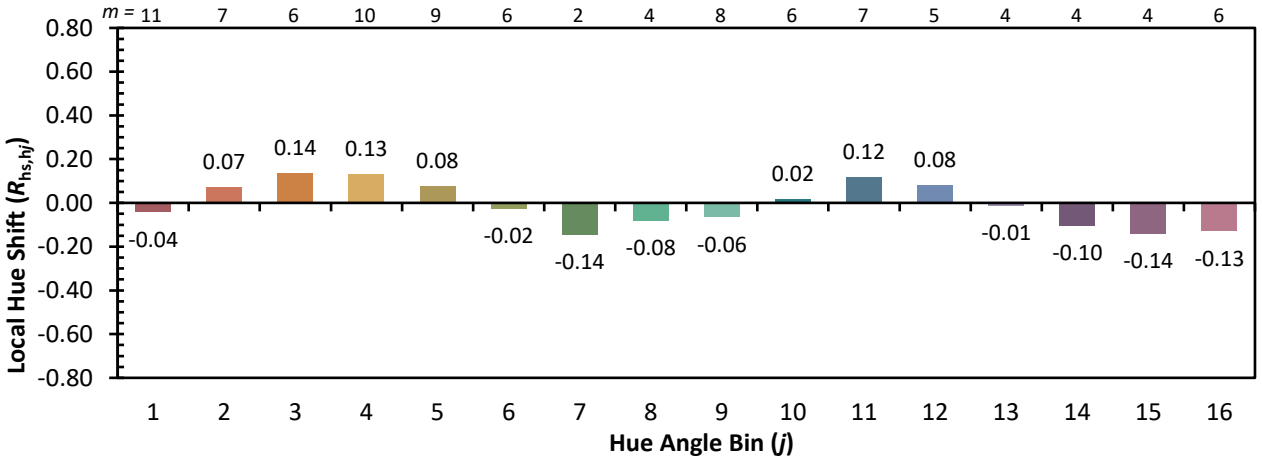


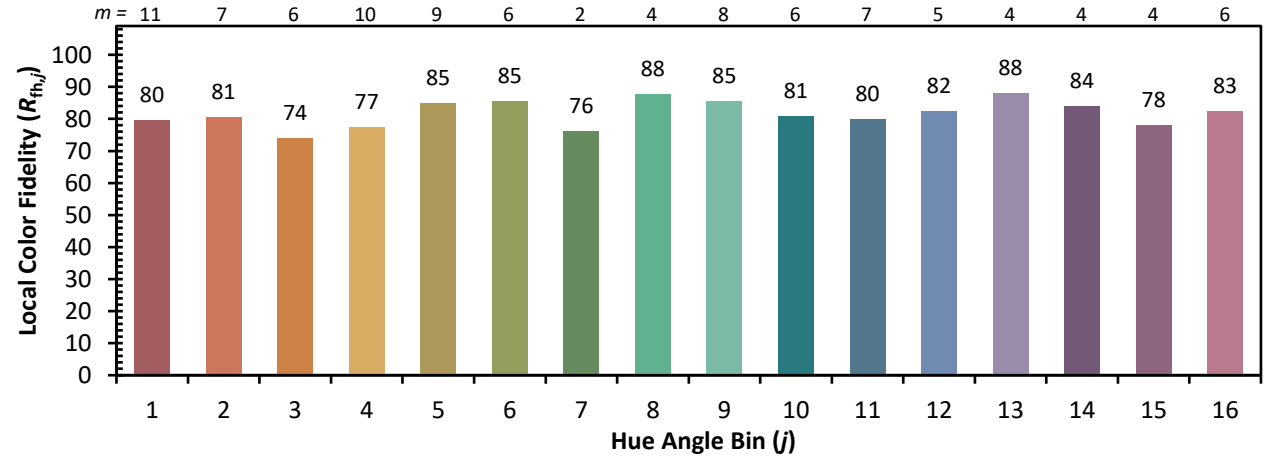
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



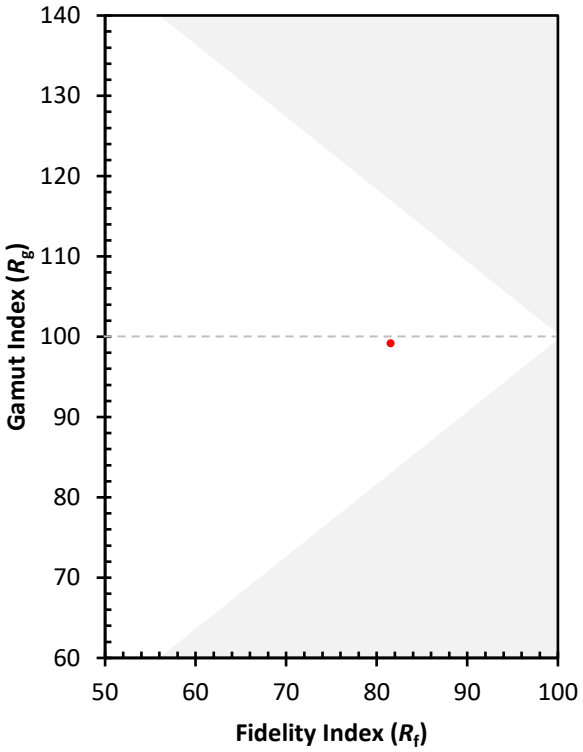


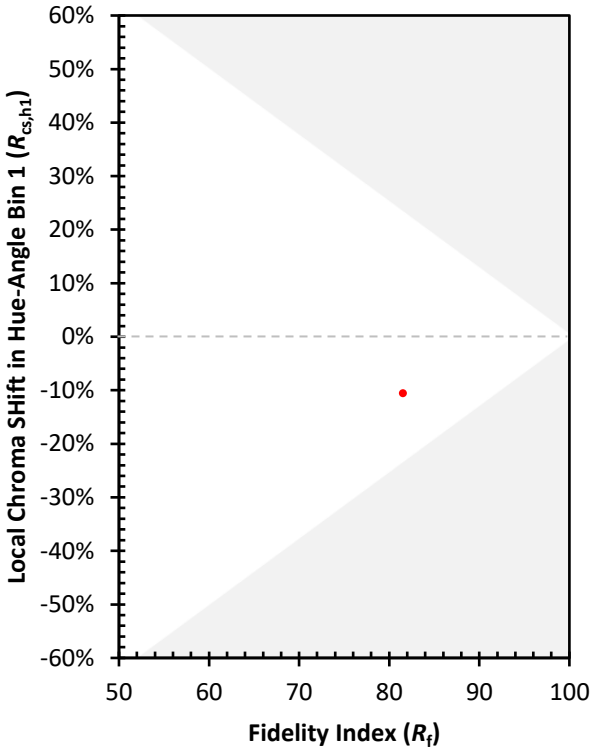


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)