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

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632034

Luminaire Tested: GWS-SA2B-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P632034
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3219.1 lumens
Efficiency:	N/A
Efficacy:	69.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	46.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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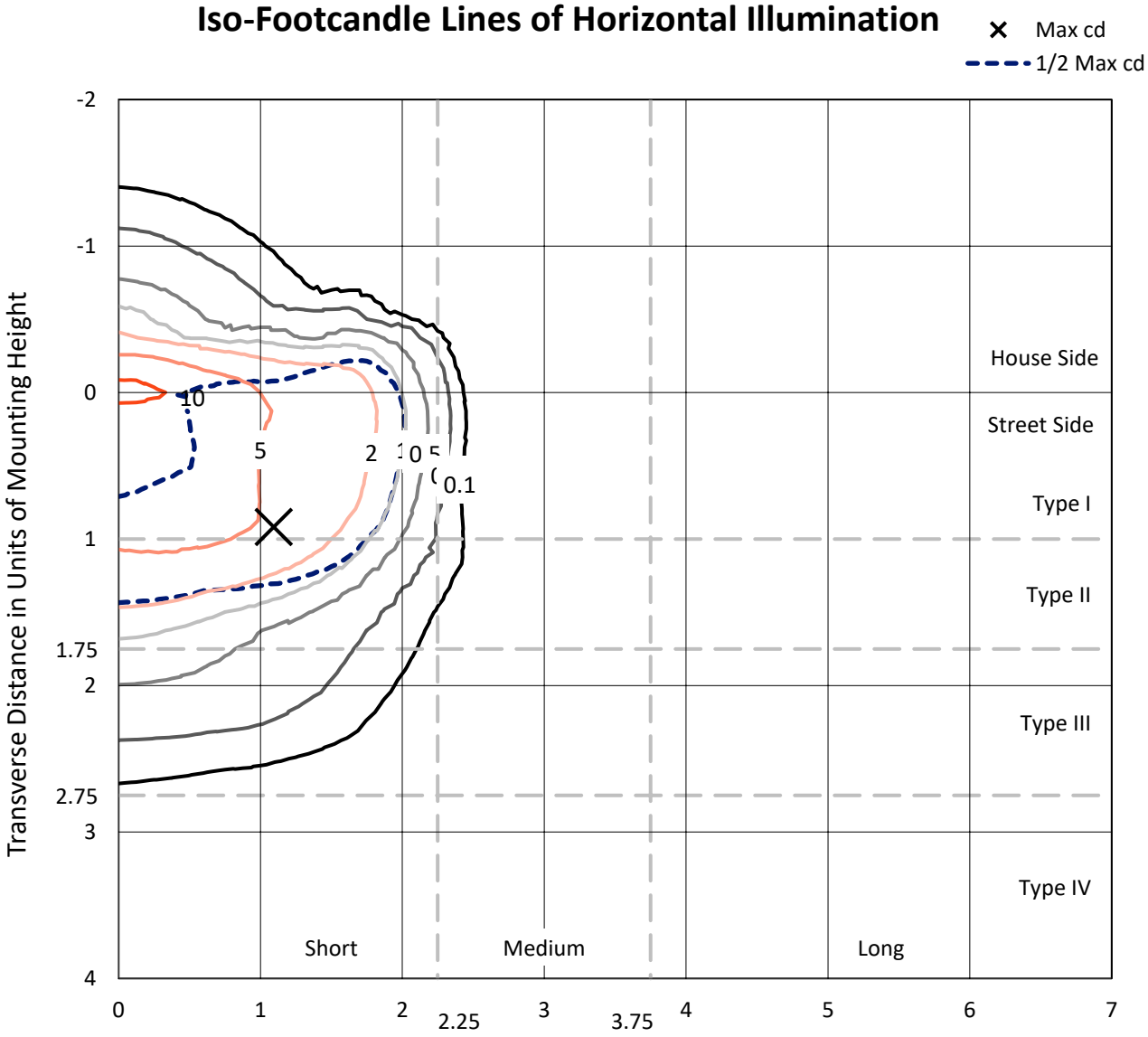
REPORT NUMBER: P632034
CATALOG NUMBER: GWS-SA2B-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
Type II - Short - N/A

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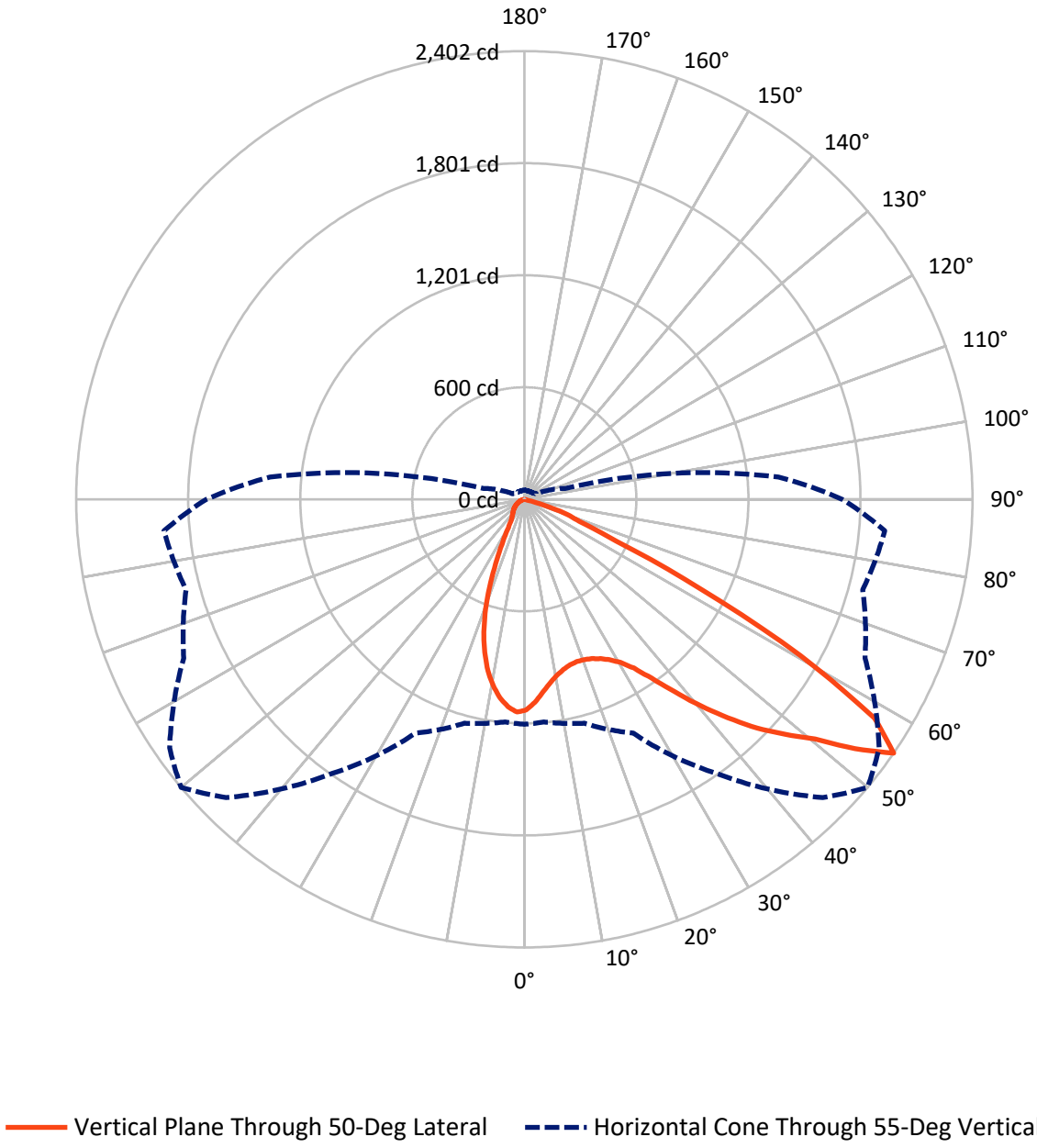
Luminous Intensity Polar Plot



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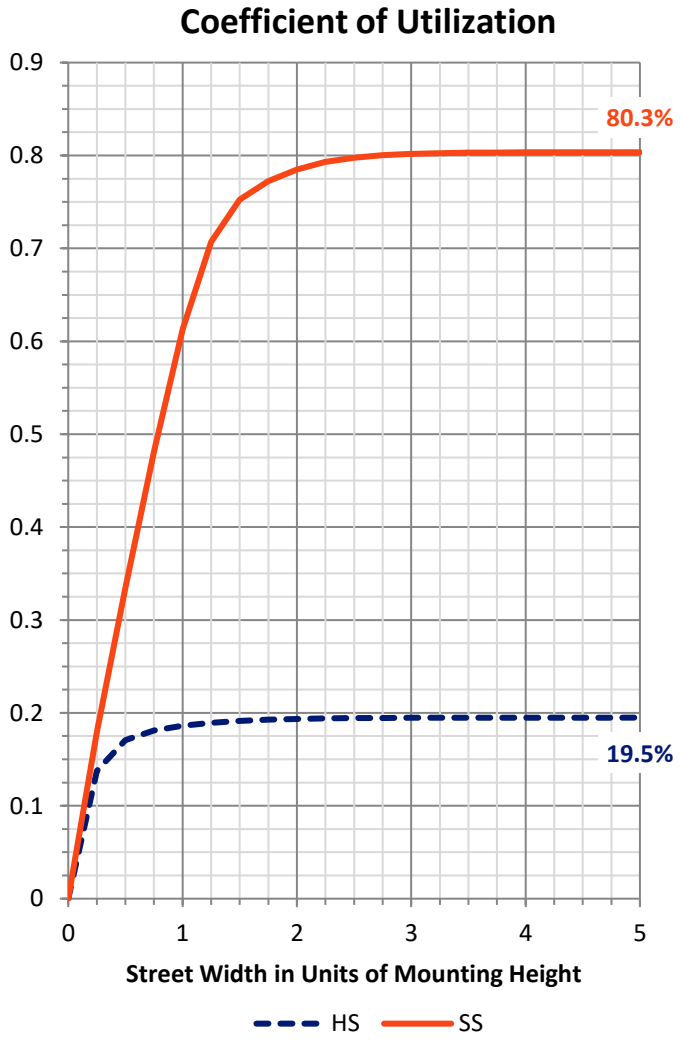
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.3	0.0	634.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	2584.8	0.0	2584.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	3219.1	0.0	3219.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.1
10°-20°	244.1	7.6
20°-30°	344.3	10.7
30°-40°	509.5	15.8
40°-50°	735.0	22.8
50°-60°	867.0	26.9
60°-70°	386.8	12.0
70°-80°	33.3	1.0
80°-90°	0.0	0.0
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°	3219.1	100.0
0°-180°	3219.1	100.0



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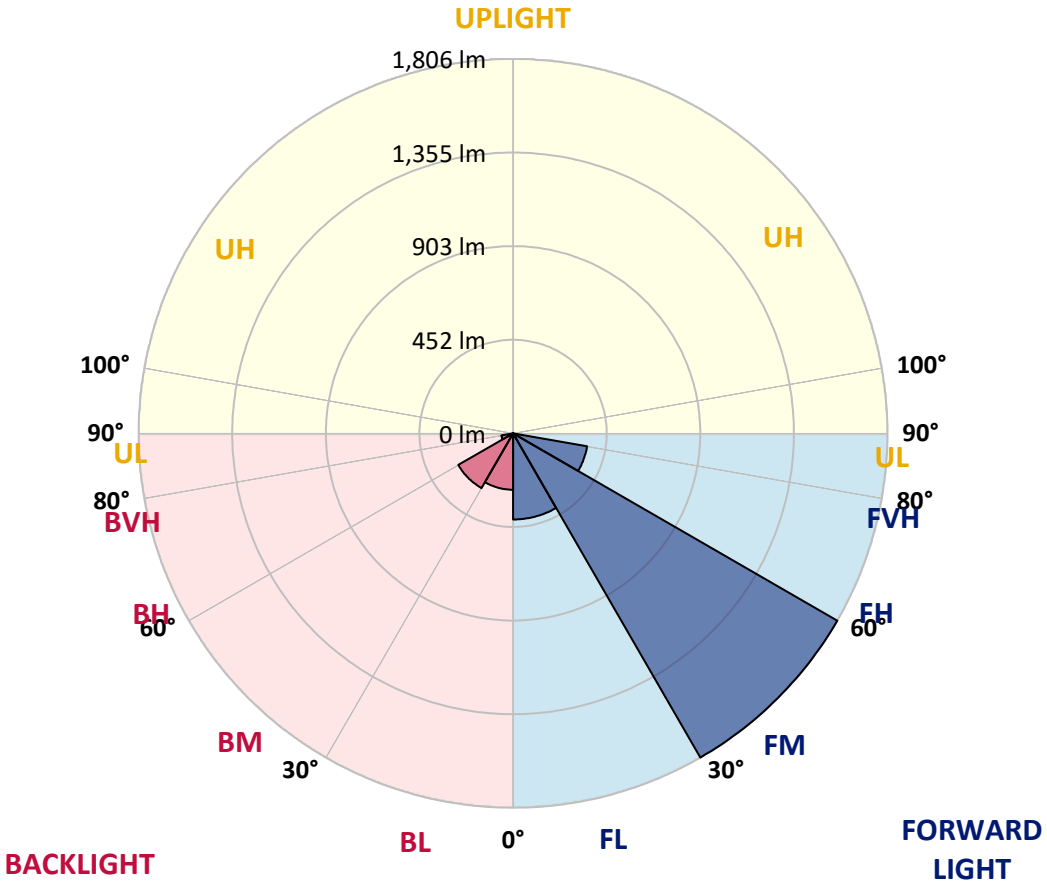
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	415.6	12.9			
FM	(30°-60°)	1806.5	56.1			
FH	(60°-80°)	362.7	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	272.0	8.4	B1/500		
BM	(30°-60°)	305.1	9.5	B1/1000		
BH	(60°-80°)	57.3	1.8	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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REPORT NUMBER: P632034
CATALOG NUMBER: GWS-SA2B-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	*1129.4*	1129.4	1129.4	1129.4	1129.4
2.5°	1049.3	1050.1	1050.4	1061.1	1065.0	1080.7	*1089.0*	1093.3	1104.7	1118.0	1129.0
5°	978.9	977.7	979.7	993.1	1001.7	1024.9	*1037.5*	1046.1	1071.3	1102.7	1129.0
7.5°	917.6	920.0	922.3	936.9	949.8	975.0	*993.1*	1006.0	1041.0	1087.8	1132.2
10°	874.4	874.4	877.9	894.4	909.8	940.8	*958.9*	975.4	1017.0	1074.4	1135.7
12.5°	842.6	843.0	847.3	866.1	883.8	916.0	*934.9*	951.0	997.0	1061.1	1136.5
15°	827.6	826.4	830.0	850.0	869.7	899.9	*919.6*	935.3	982.9	1053.6	1140.4
17.5°	823.7	822.9	825.7	845.3	865.4	894.8	*914.1*	929.8	980.9	1056.0	1152.2
20°	835.1	833.5	832.3	849.2	868.1	897.2	*917.2*	934.9	990.3	1068.9	1170.3
22.5°	862.2	862.2	859.5	867.7	880.3	906.6	*927.4*	950.6	1015.1	1094.9	1197.0
25°	912.1	908.2	903.1	906.6	905.0	921.6	*946.3*	978.5	1061.8	1137.7	1229.7
27.5°	969.1	972.6	964.0	964.4	950.6	944.7	*973.4*	1022.2	1131.4	1198.2	1278.0
30°	1046.5	1043.8	1044.2	1043.0	1011.2	983.2	*1014.3*	1079.1	1219.0	1290.6	1340.9
32.5°	1107.0	1111.0	1123.9	1131.4	1089.7	1044.9	*1078.0*	1156.6	1318.9	1395.9	1417.9
35°	1171.1	1178.2	1204.5	1228.9	1193.9	1142.4	*1177.8*	1259.1	1412.8	1500.0	1506.3
37.5°	1238.7	1252.8	1284.3	1327.1	1321.6	1276.0	*1308.2*	1379.8	1486.7	1562.9	1579.4
40°	1316.1	1329.9	1381.3	1443.0	1456.0	1445.8	*1456.4*	1498.1	1535.4	1565.7	1610.8
42.5°	1401.0	1419.9	1485.1	1567.6	1616.3	1625.4	*1600.6*	1596.3	1556.6	1534.2	1604.2
45°	1501.2	1523.2	1597.1	1704.0	1781.4	1793.6	*1750.7*	1695.3	1570.0	1511.0	1584.1
47.5°	1613.6	1634.4	1707.9	1836.4	1951.6	1956.3	*1881.6*	1792.4	1609.7	1537.8	1599.4
50°	1651.3	1664.3	1728.0	1878.9	2091.1	2127.2	*2019.2*	1901.7	1689.4	1616.3	1674.1
52.5°	1521.6	1526.7	1582.2	1734.6	2062.8	2295.0	*2220.0*	2064.7	1831.3	1736.2	1789.3
55°	*1205.7*	*1197.4*	*1242.2*	*1382.1*	*1792.8*	*2260.8*	*2401.9*	*2321.0*	*2014.0*	*1876.9*	*1939.0*
57.5°	843.3	833.5	823.3	918.0	1337.7	1916.6	*2213.3*	2356.7	2188.1	2016.4	2100.5
60°	693.2	683.8	634.3	590.7	808.8	1376.2	*1700.1*	1970.0	2174.0	2009.3	2095.4
62.5°	598.9	593.4	573.4	514.0	475.9	785.6	*1064.6*	1323.2	1668.2	1577.8	1582.6
65°	470.4	468.8	482.6	488.9	420.9	434.6	*543.1*	687.7	901.9	850.4	806.4
67.5°	321.5	317.9	343.9	422.9	404.8	343.1	*317.9*	320.7	390.2	238.5	189.4
70°	204.4	196.1	196.5	262.1	329.3	270.8	*245.2*	215.7	194.1	35.4	40.1
72.5°	130.9	125.8	108.1	118.3	152.5	132.0	*133.2*	114.8	76.6	18.9	22.0
75°	55.0	50.7	38.9	31.0	30.7	19.3	*16.9*	15.7	10.6	10.6	11.4
77.5°	0.4	0.0	0.0	0.4	0.8	0.4	*0.4*	0.8	1.6	2.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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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REPORT NUMBER: P632034
CATALOG NUMBER: GWS-SA2B-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1135.7	1126.3	1136.9	1140.8	1140.4	1140.8	1129.4	1121.6	1121.2	1111.4	1106.6
5°	1140.0	1132.6	1140.4	1135.3	1123.2	1107.8	1087.4	1069.7	1061.8	1050.4	1044.9
7.5°	1148.3	1140.4	1139.3	1118.8	1088.6	1056.3	1020.2	988.0	970.7	949.8	951.0
10°	1154.2	1145.2	1129.8	1088.2	1037.9	986.4	932.6	884.6	854.3	826.4	821.7
12.5°	1156.6	1143.2	1107.4	1044.6	973.8	906.6	827.6	759.2	712.1	675.5	670.4
15°	1160.9	1139.3	1078.7	991.9	894.8	799.7	699.1	605.6	543.1	501.1	504.6
17.5°	1167.6	1134.9	1046.5	932.9	809.9	675.5	539.6	432.3	374.9	350.5	350.9
20°	1177.0	1129.8	1011.2	868.1	708.2	535.2	377.3	296.3	280.2	279.4	278.2
22.5°	1189.6	1124.7	973.4	797.0	587.5	374.9	251.1	226.0	232.6	245.6	248.0
25°	1204.5	1118.4	931.4	716.8	455.9	246.0	188.2	184.3	200.4	217.7	221.6
27.5°	1227.7	1115.3	883.4	625.6	319.9	176.5	154.1	156.4	170.9	185.5	189.0
30°	1267.0	1121.2	831.2	523.5	205.5	140.7	133.6	137.2	145.0	152.5	155.6
32.5°	1320.4	1138.5	780.5	411.8	146.6	122.2	120.6	122.6	125.8	130.1	131.3
35°	1382.9	1168.3	728.2	294.7	121.0	111.6	110.0	110.0	111.6	112.4	112.8
37.5°	1434.4	1199.8	679.1	196.1	108.5	103.4	101.0	99.8	99.4	100.2	100.6
40°	1456.8	1212.8	625.6	142.7	99.4	95.9	92.4	88.8	88.8	91.6	92.0
42.5°	1441.1	1198.2	563.9	117.9	93.1	88.0	82.5	79.4	81.0	83.7	84.5
45°	1407.7	1162.5	495.9	104.1	86.8	80.2	73.9	71.9	73.5	77.0	77.8
47.5°	1402.2	1138.9	414.6	95.1	80.2	73.5	66.8	64.8	66.8	69.6	70.3
50°	1456.8	1159.3	324.2	87.2	73.9	66.4	60.9	58.9	60.1	61.7	62.5
52.5°	1556.6	1235.2	261.7	79.8	66.4	59.3	55.8	53.4	53.4	55.0	55.4
55°	*1704.0*	*1367.6*	*226.0*	*71.1*	*57.8*	*53.8*	*50.7*	*48.3*	*48.3*	*49.1*	*49.5*
57.5°	1873.8	1527.9	234.2	59.7	50.7	48.7	46.0	44.0	44.8	44.8	44.8
60°	1850.2	1516.1	250.7	50.3	44.8	44.0	41.7	40.9	42.8	41.3	40.5
62.5°	1362.9	1047.3	131.3	41.3	38.5	37.7	36.2	37.7	40.5	36.2	34.6
65°	661.8	507.0	52.7	33.8	32.6	31.8	31.0	33.4	35.0	28.3	26.7
67.5°	155.6	126.5	34.2	28.7	27.1	25.5	26.3	26.7	25.5	19.3	18.5
70°	40.5	39.7	26.7	24.0	21.6	20.0	20.0	19.6	16.9	12.2	11.4
72.5°	22.0	21.6	19.3	18.1	14.9	13.4	13.8	12.2	9.4	7.1	6.7
75°	11.0	11.8	11.0	10.2	8.3	7.5	7.5	6.7	4.7	2.8	2.8
77.5°	2.4	2.8	2.8	2.4	2.0	1.6	1.6	2.0	0.8	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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

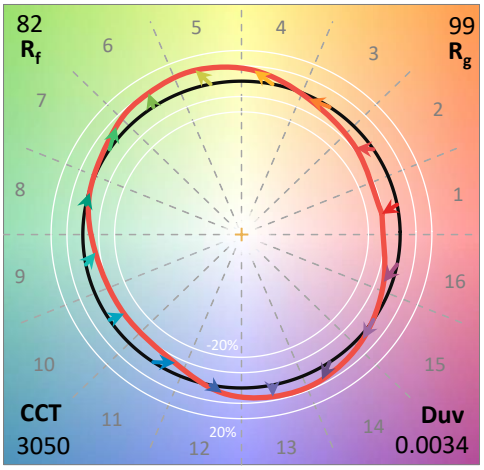
Test Information

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

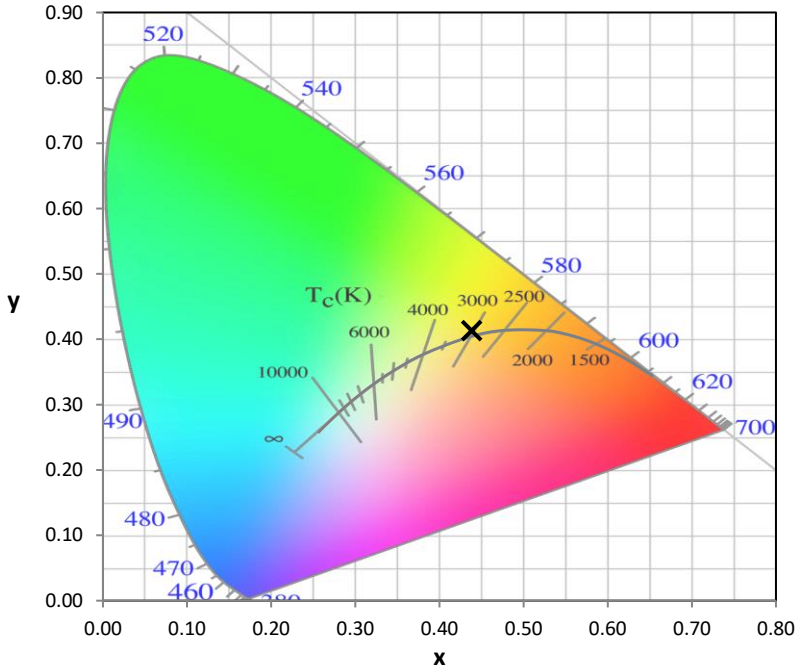
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

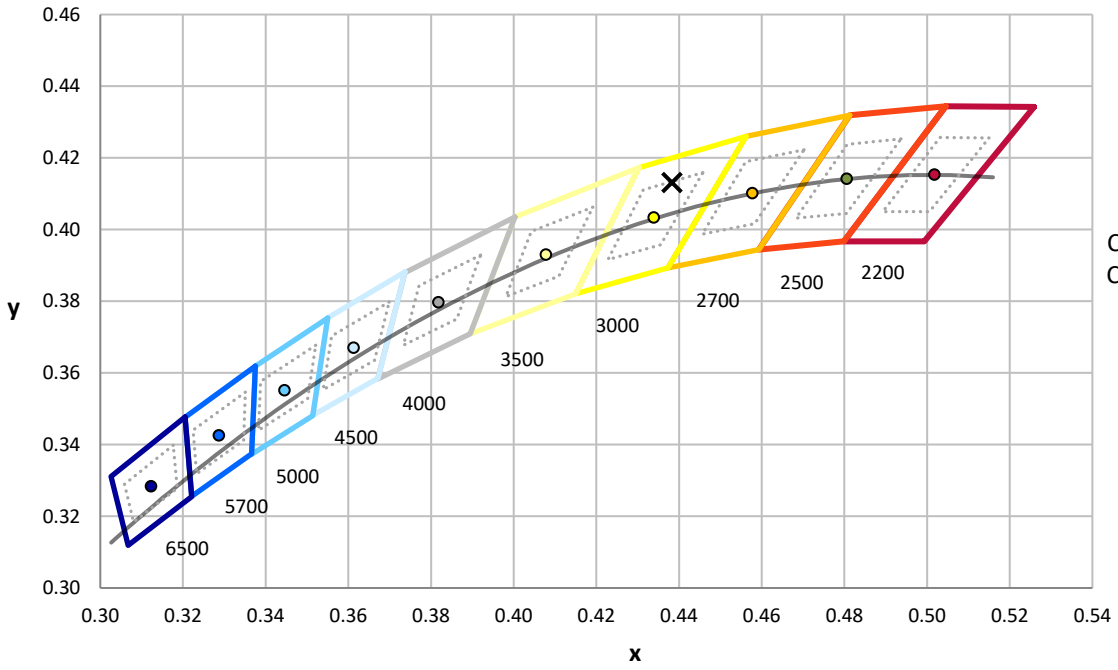
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

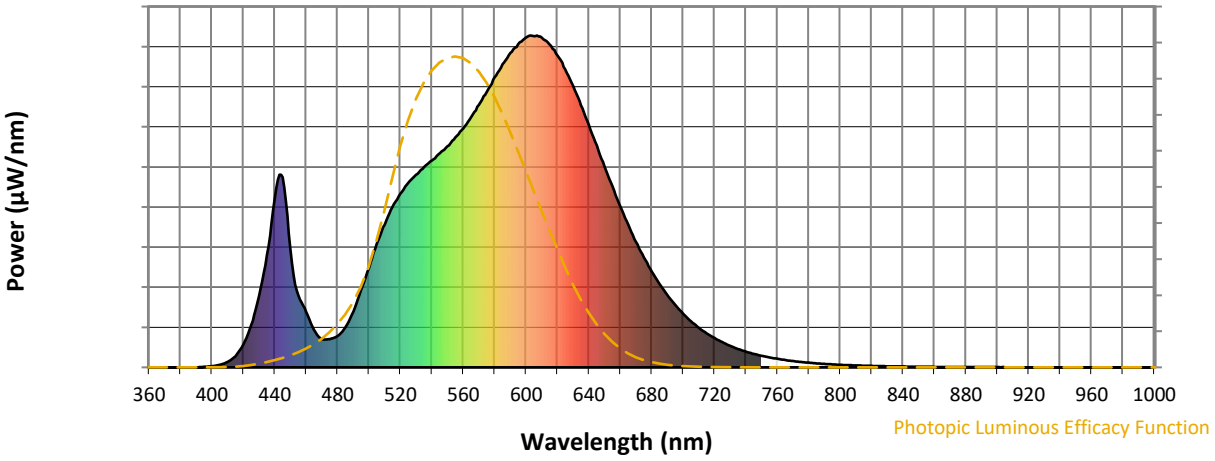


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

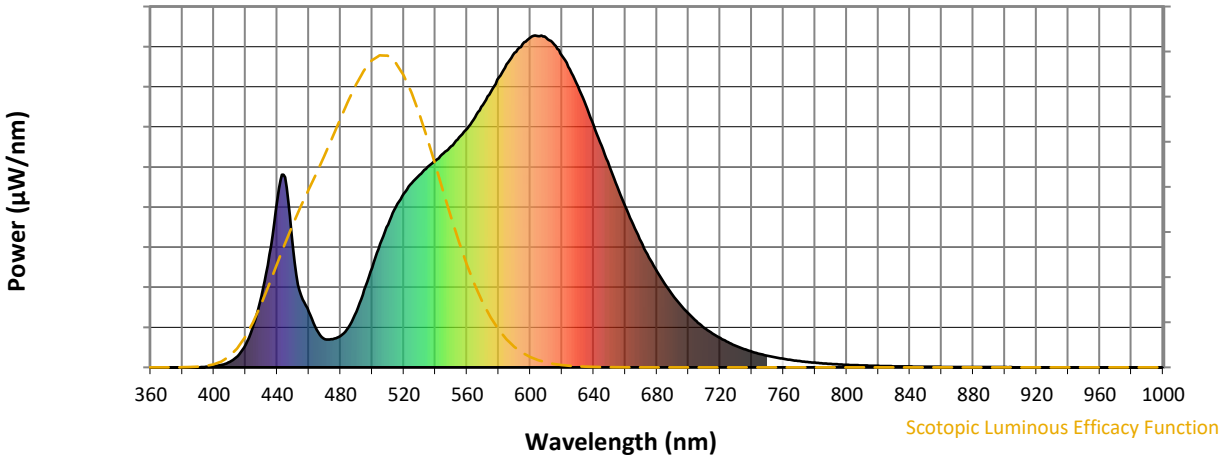


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

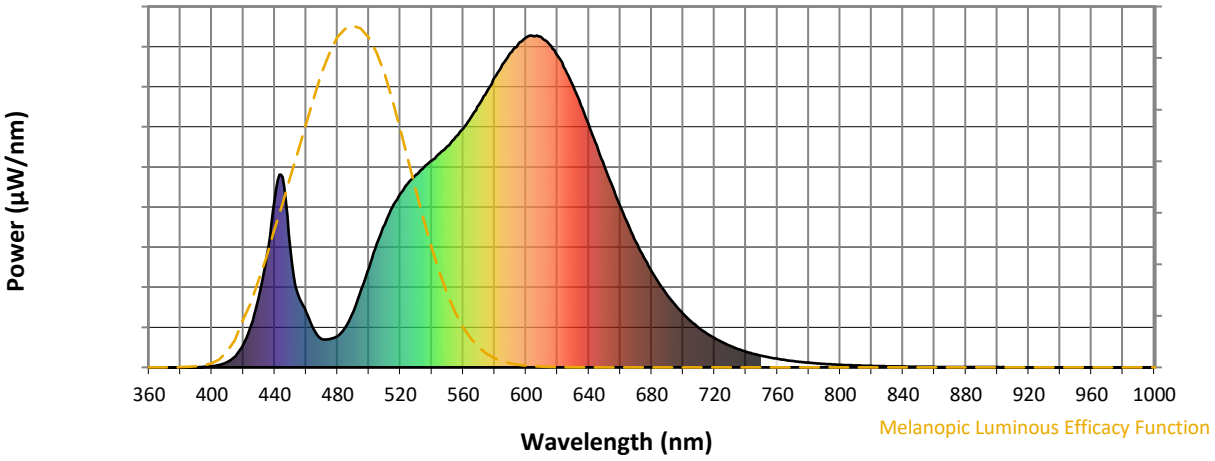


Scotopic Lumens: NR **S/P: 1.27**

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			

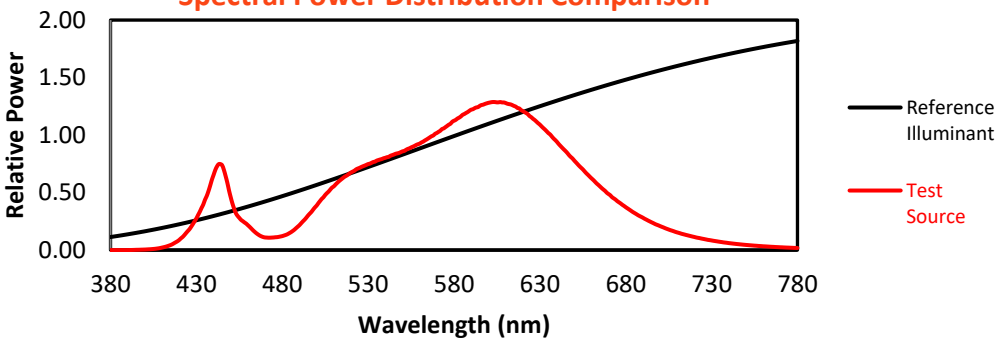
REPORT NUMBER: SP1-2408-195-9

TM-30-18

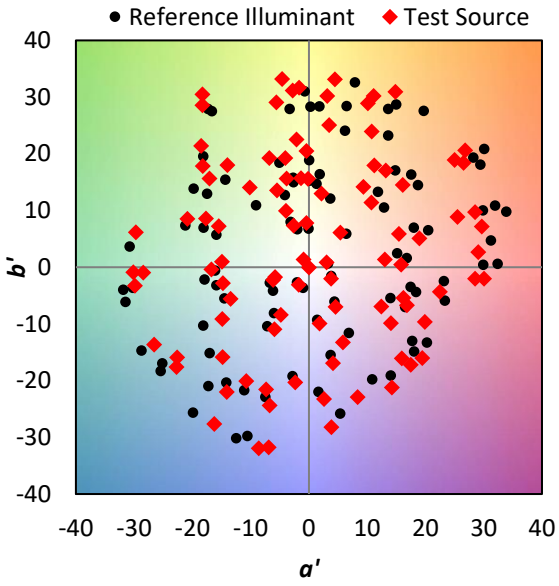
Summary

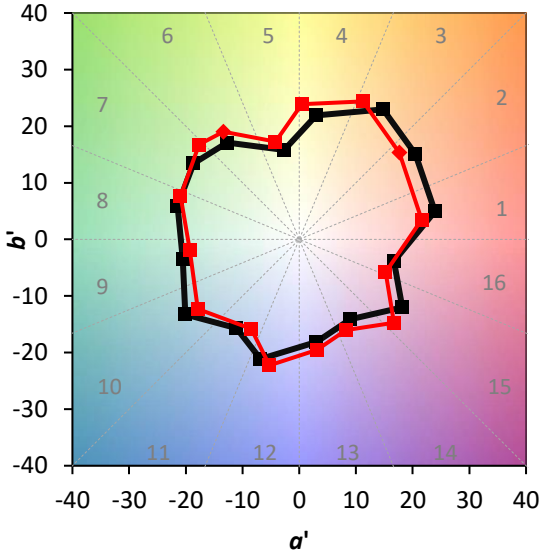
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

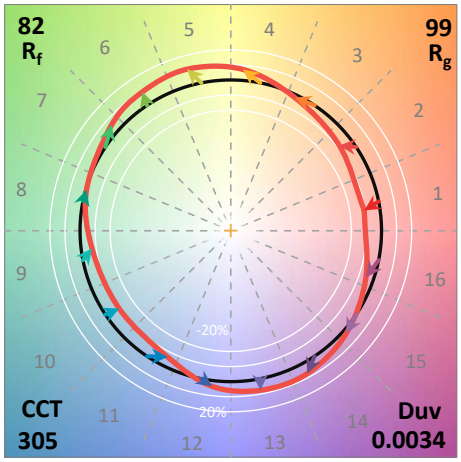
Spectral Power Distribution Comparison

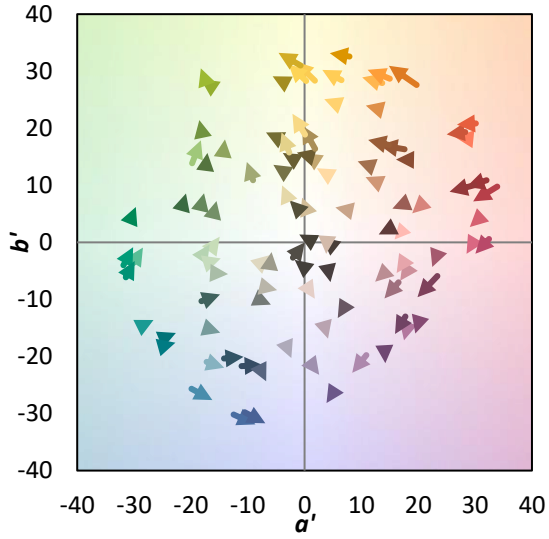


Color Vector Graphics







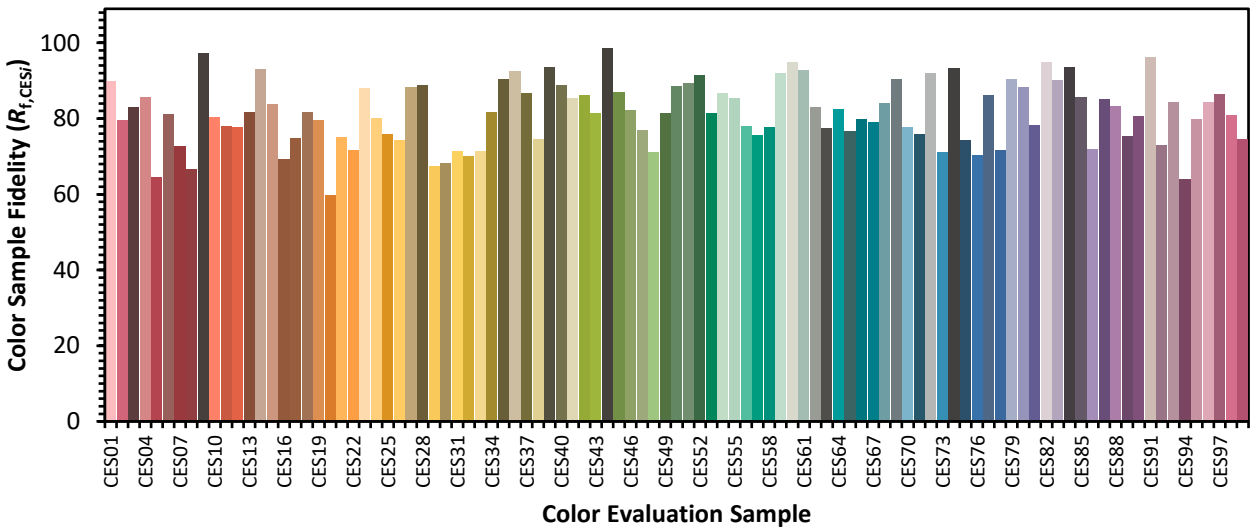


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

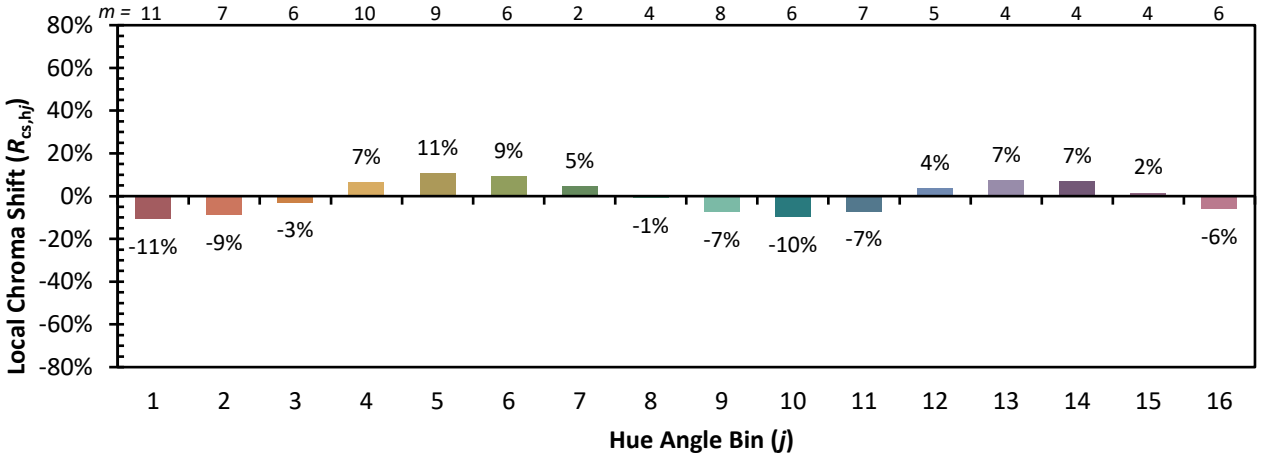
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

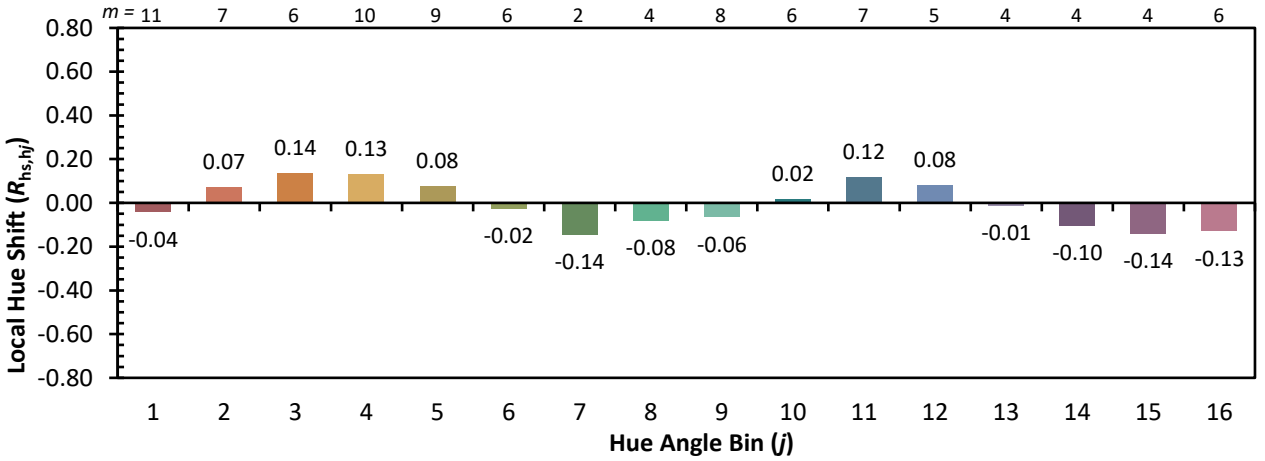


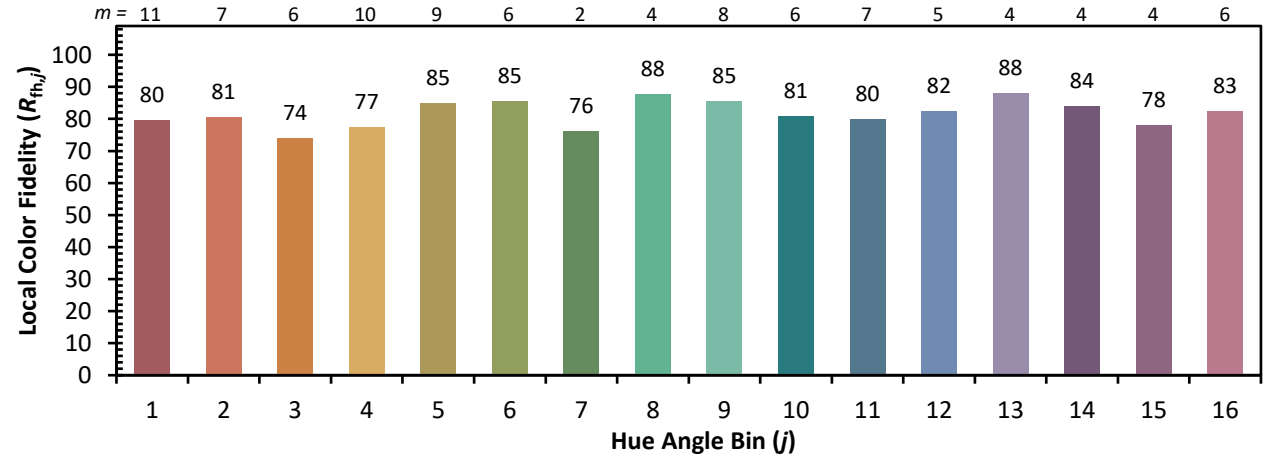
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



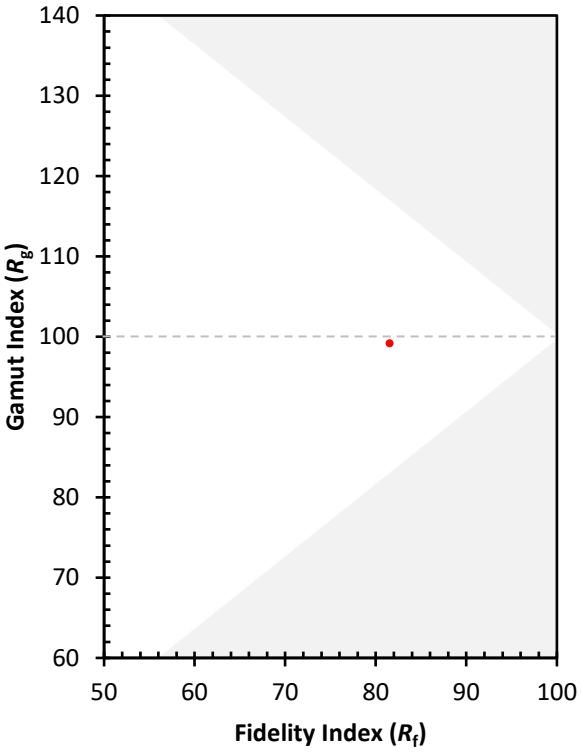


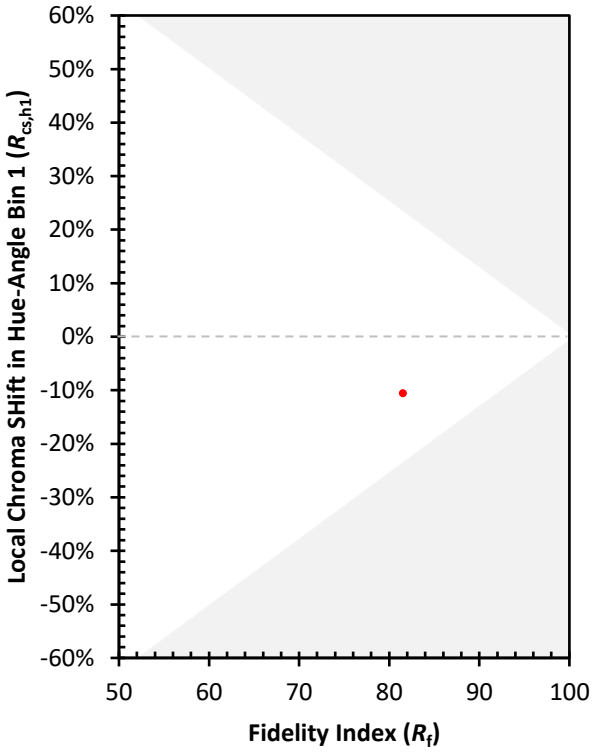


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)