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: P632559

Luminaire Tested: GWS-SA2C-830-U-T3-W

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:	P632559
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7357.3 lumens
Efficiency:	N/A
Efficacy:	116.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	63.2
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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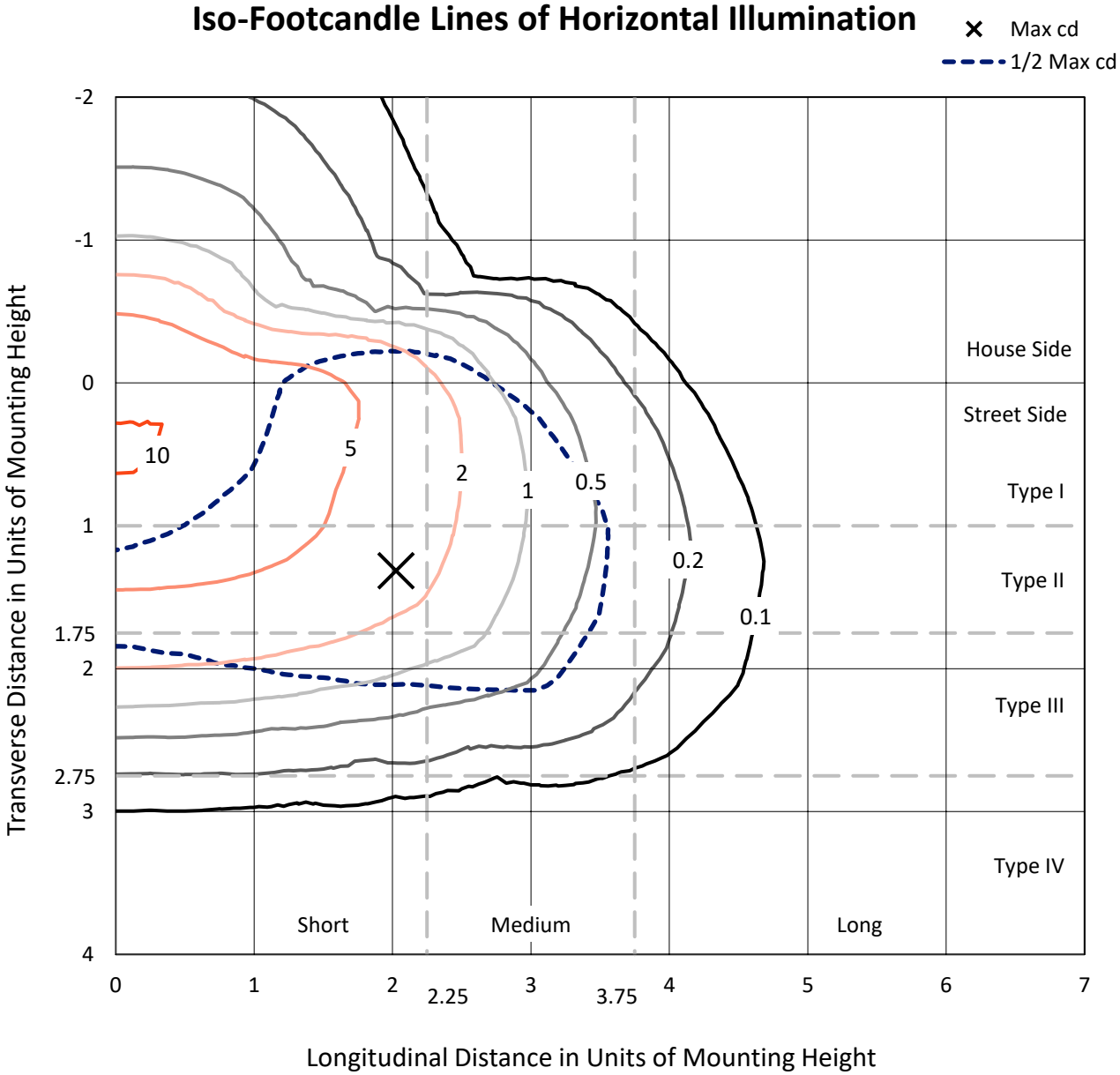
Scaled Data Report

REPORT NUMBER: P632559
CATALOG NUMBER: GWS-SA2C-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
Type III - Short - N/A

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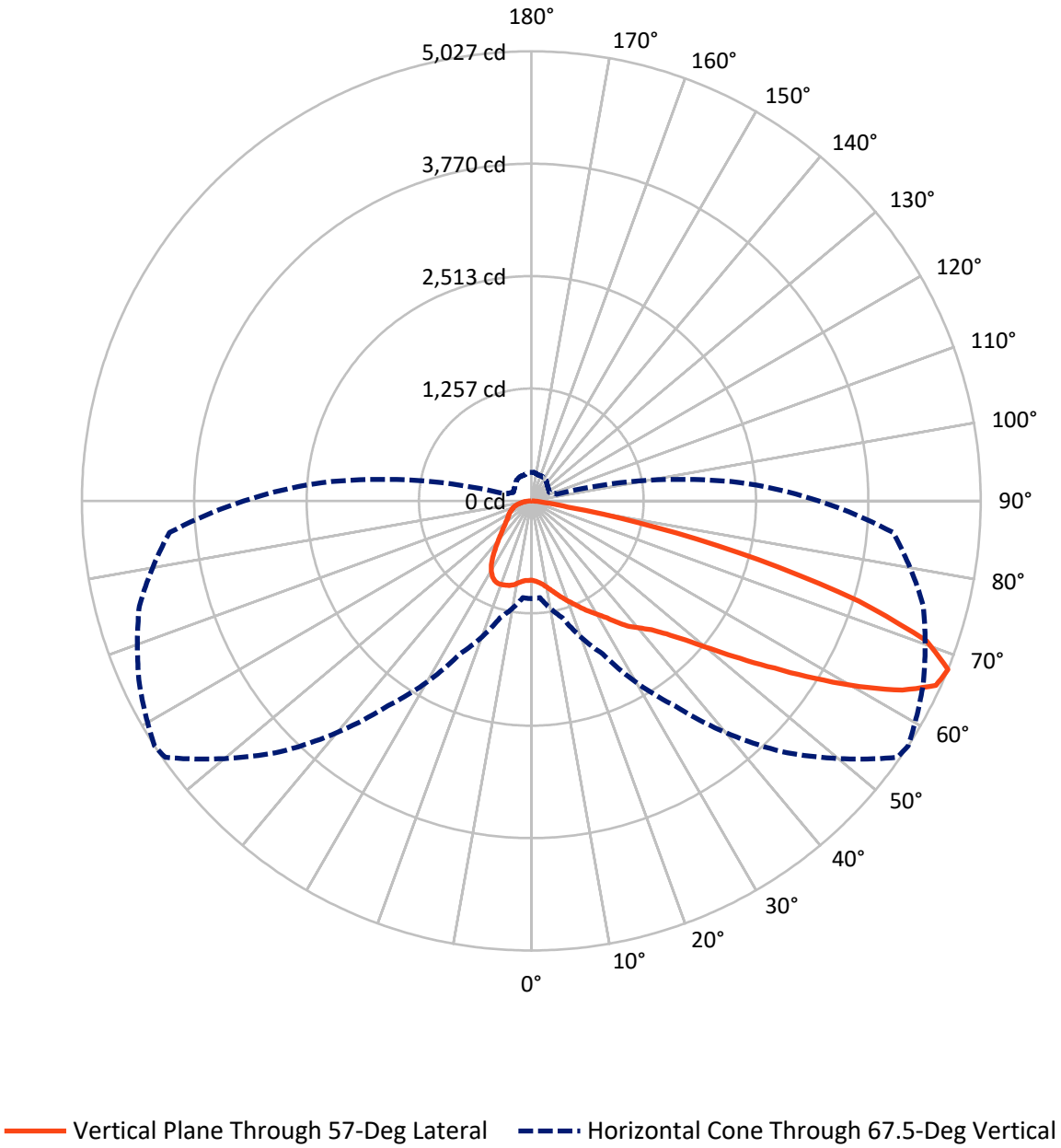
Luminous Intensity Polar Plot



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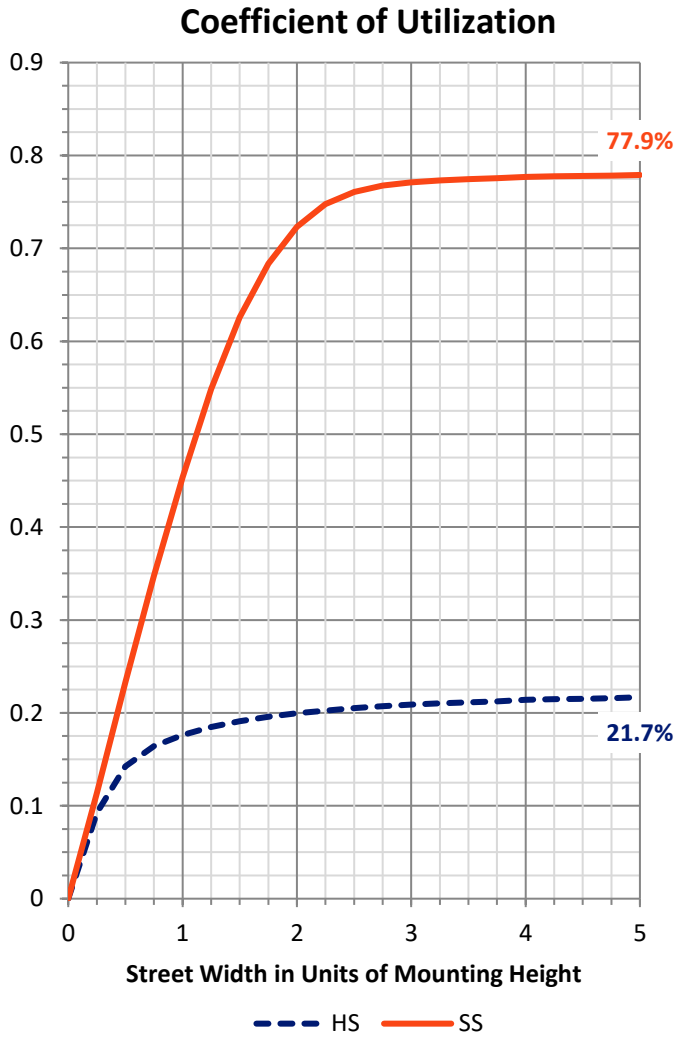
CATALOG NUMBER: GWS-SA2C-830-U-T3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.6	0.0	1617.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5739.7	0.0	5739.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	7357.3	0.0	7357.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.2
10°-20°	291.1	4.0
20°-30°	518.9	7.1
30°-40°	754.4	10.3
40°-50°	1091.9	14.8
50°-60°	1708.8	23.2
60°-70°	1993.5	27.1
70°-80°	832.2	11.3
80°-90°	78.5	1.1
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°	7357.3	100.0
0°-180°	7357.3	100.0



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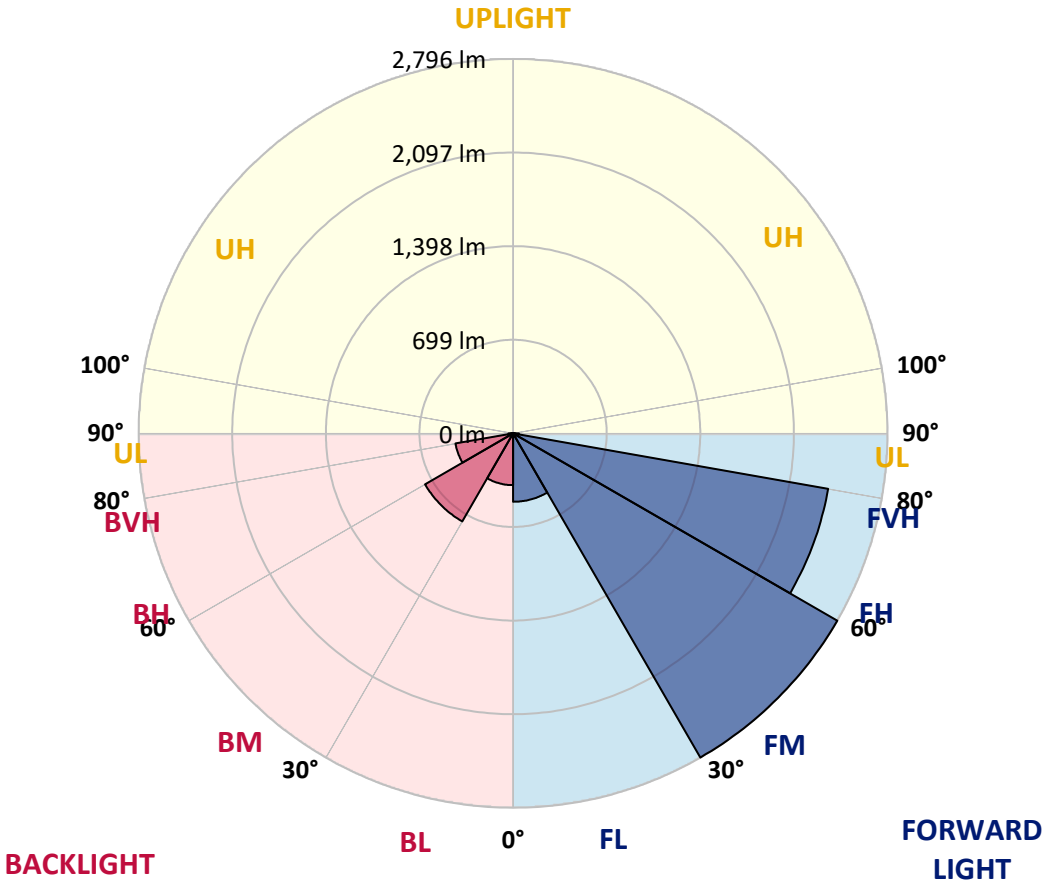
REPORT NUMBER: P632559
CATALOG NUMBER: GWS-SA2C-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	511.0	6.9			
FM	(30°-60°)	2795.9	38.0			
FH	(60°-80°)	2389.0	32.5			G2/5000
FVH	(80°-90°)	43.7	0.6			G1/100
BL	(0°-30°)	386.9	5.3	B1/500		
BM	(30°-60°)	759.3	10.3	B1/1000		
BH	(60°-80°)	436.6	5.9	B1/500		G1/500
BVH	(80°-90°)	34.8	0.5			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 Short



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Scaled Data Report

REPORT NUMBER: P632559
CATALOG NUMBER: GWS-SA2C-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	*886.5*	886.5	886.5	886.5
2.5°	899.2	898.1	897.6	900.7	899.7	899.2	899.2	*898.6*	897.6	893.4	887.6
5°	923.9	921.8	919.7	922.3	920.2	918.1	917.6	*916.5*	912.9	906.5	897.6
7.5°	949.8	947.6	948.2	949.8	948.2	947.1	945.5	*944.5*	938.7	928.7	916.5
10°	986.1	986.1	987.2	988.8	989.3	987.7	984.5	*983.0*	976.1	963.5	946.6
12.5°	1038.8	1037.8	1037.8	1036.7	1038.3	1036.7	1033.6	*1030.9*	1022.5	1006.1	981.9
15°	1108.4	1104.2	1100.5	1093.6	1091.5	1085.7	1086.8	*1085.2*	1077.3	1055.2	1024.6
17.5°	1182.7	1182.2	1176.4	1162.7	1149.0	1139.5	1141.6	*1141.1*	1136.9	1106.8	1067.8
20°	1248.1	1250.7	1245.4	1234.9	1216.4	1198.5	1197.5	*1200.1*	1194.8	1164.8	1110.5
22.5°	1321.3	1319.2	1313.9	1300.2	1286.5	1267.6	1261.2	*1259.1*	1257.0	1222.8	1154.2
25°	1390.9	1397.2	1390.4	1377.7	1356.6	1336.1	1330.8	*1332.9*	1327.1	1281.8	1201.2
27.5°	1478.9	1481.5	1477.3	1459.9	1442.0	1413.0	1403.0	*1403.0*	1400.9	1337.1	1238.0
30°	1572.7	1580.1	1572.7	1558.5	1540.1	1498.4	1476.8	*1474.7*	1468.4	1394.1	1281.3
32.5°	1667.1	1672.3	1667.1	1653.4	1632.3	1595.9	1564.8	*1560.1*	1551.6	1456.2	1325.5
35°	1750.9	1755.6	1754.6	1757.7	1740.3	1694.5	1675.5	*1673.4*	1651.3	1537.4	1385.6
37.5°	1842.6	1848.4	1840.5	1846.8	1839.9	1796.7	1790.9	*1780.4*	1748.8	1613.8	1448.9
40°	1946.9	1952.2	1939.6	1942.2	1934.3	1910.0	1880.5	*1866.3*	1819.4	1696.6	1548.5
42.5°	2058.7	2070.8	2076.6	2071.8	2053.4	2039.7	1988.0	*1970.1*	1931.1	1845.7	1712.4
45°	2220.5	2238.4	2246.8	2234.7	2226.8	2207.3	2144.1	*2122.4*	2101.9	2056.0	1941.1
47.5°	2394.9	2411.3	2438.2	2443.4	2449.7	2435.0	2345.9	*2324.8*	2328.5	2323.3	2222.6
50°	2534.1	2547.8	2608.4	2673.2	2727.0	2731.2	2617.3	*2594.7*	2614.7	2631.6	2561.5
52.5°	2635.3	2647.4	2727.5	2861.4	2983.1	3073.3	2950.4	*2924.6*	2941.0	2978.9	2946.8
55°	2717.5	2734.4	2818.2	3023.7	3269.8	3412.1	3333.6	*3300.9*	3294.1	3341.0	3359.4
57.5°	2760.7	2766.0	2883.5	3150.7	3480.1	3744.7	3779.0	*3742.1*	3676.7	3702.6	3798.5
60°	2662.1	2671.1	2831.9	3183.4	3646.2	4074.7	4246.5	*4215.9*	4076.8	4091.0	4196.9
62.5°	2389.7	2402.3	2595.7	3027.9	3659.9	4295.0	4678.1	*4658.6*	4472.1	4395.1	4426.7
65°	1916.9	1921.1	2121.4	2643.2	3387.4	4322.4	4979.1	*4974.3*	4748.2	4568.0	4432.5
67.5°	*1093.1*	*1085.7*	*1353.5*	*1885.3*	*2795.5*	*3966.1*	*4998.6*	*5026.5*	*4837.8*	*4539.5*	*4063.6*
70°	473.8	474.9	598.2	930.3	1809.4	3205.5	4642.8	*4690.8*	4578.5	4065.7	3232.9
72.5°	219.3	222.4	275.6	402.7	772.7	1988.6	3785.8	*3829.0*	3732.6	3254.0	2352.2
75°	155.0	157.6	183.9	230.8	355.2	774.8	2532.5	*2623.1*	2670.1	2433.9	1550.1
77.5°	117.5	121.2	134.4	160.2	219.3	274.6	1211.7	*1427.8*	1700.8	1514.2	798.5
80°	74.8	74.8	89.1	107.0	133.9	142.8	350.0	*414.8*	832.2	624.0	313.6
82.5°	50.6	52.2	60.6	68.0	76.9	81.2	150.2	*160.2*	240.3	212.4	129.1
85°	26.9	27.9	31.6	31.1	36.9	32.2	63.2	*62.7*	88.0	96.5	49.0
87.5°	0.0	0.0	0.5	0.5	1.1	1.6	6.9	*7.4*	18.4	29.5	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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Scaled Data Report

REPORT NUMBER: P632559
CATALOG NUMBER: GWS-SA2C-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
2.5°	890.7	884.4	887.6	886.5	889.7	889.7	883.9	882.3	882.8	876.5	874.4
5°	898.6	891.2	892.8	890.7	893.9	896.5	893.9	893.9	897.0	892.3	889.7
7.5°	916.5	908.1	908.1	905.5	909.2	911.3	909.2	912.3	918.1	913.4	910.7
10°	945.0	935.0	935.5	932.4	933.9	932.9	924.5	921.8	923.4	919.2	917.1
12.5°	981.9	968.2	968.2	961.9	958.2	947.1	929.7	923.4	924.5	920.8	919.2
15°	1017.2	1004.6	1001.9	989.3	972.4	951.9	936.0	931.8	932.9	929.2	926.6
17.5°	1058.9	1042.5	1033.0	1009.8	978.7	957.7	941.8	931.8	923.4	915.0	912.9
20°	1097.3	1076.8	1059.4	1023.5	985.6	956.6	927.1	902.3	881.8	870.7	868.1
22.5°	1136.9	1110.5	1079.9	1033.0	985.1	937.6	883.3	845.9	815.4	799.0	802.2
25°	1174.3	1141.1	1099.4	1042.0	968.2	895.5	821.7	765.8	731.0	718.4	714.7
27.5°	1205.4	1164.3	1117.4	1037.8	933.4	834.9	737.3	675.2	641.4	627.2	623.5
30°	1240.2	1193.8	1143.2	1018.3	878.6	750.0	642.0	591.4	567.1	553.4	553.9
32.5°	1280.2	1231.7	1179.5	980.8	808.5	658.3	563.4	528.6	509.1	495.4	493.3
35°	1334.0	1286.0	1203.8	924.5	719.4	574.0	509.7	481.2	457.0	439.0	435.3
37.5°	1400.4	1367.7	1206.4	849.1	624.0	516.0	471.2	440.6	411.1	387.4	384.7
40°	1514.2	1476.8	1184.8	754.7	542.9	478.6	439.0	403.7	369.5	343.1	339.4
42.5°	1676.6	1599.6	1138.4	648.3	481.7	449.0	408.5	363.7	328.9	310.4	307.8
45°	1883.2	1736.6	1068.9	548.1	436.4	420.1	376.3	329.4	311.0	297.8	295.2
47.5°	2136.1	1896.3	988.8	470.1	401.1	393.7	343.6	317.8	301.5	290.4	287.8
50°	2438.7	2099.8	922.9	409.0	369.5	363.1	333.1	311.0	297.8	288.8	286.7
52.5°	2783.9	2325.9	890.7	365.2	342.1	335.7	329.4	309.4	298.3	291.5	288.8
55°	3142.3	2564.1	860.7	331.5	318.9	322.6	329.9	314.7	306.2	297.3	294.6
57.5°	3488.6	2787.6	786.9	305.2	302.0	316.2	332.6	319.9	309.9	300.9	297.8
60°	3727.3	2909.9	662.0	284.1	289.4	308.3	325.7	312.0	299.4	295.7	294.1
62.5°	3791.6	2895.1	513.9	262.5	274.1	290.9	307.8	298.8	285.7	291.5	292.0
65°	3641.4	2737.0	385.8	241.4	254.0	268.3	289.4	285.7	280.9	296.7	297.3
67.5°	*3216.1*	*2348.6*	*294.1*	*222.9*	*233.5*	*250.9*	*283.6*	*298.8*	*299.9*	*319.9*	*317.8*
70°	2433.4	1754.6	230.3	205.6	217.7	250.9	302.0	308.9	296.2	314.7	310.4
72.5°	1682.4	1157.9	196.1	190.3	198.2	239.3	301.5	301.5	287.8	287.8	279.9
75°	1045.1	681.0	170.8	170.8	170.8	209.2	293.0	277.8	253.5	242.4	236.1
77.5°	516.0	331.0	143.4	148.6	142.8	175.0	239.3	227.2	212.4	200.8	196.6
80°	220.3	165.5	116.0	121.7	114.9	131.8	189.7	187.1	172.9	157.6	152.8
82.5°	101.2	85.4	92.8	95.4	83.8	99.1	138.6	138.6	130.7	109.6	101.7
85°	43.2	45.3	64.3	64.3	52.7	55.9	74.3	70.6	63.2	51.7	47.4
87.5°	14.8	22.1	32.7	28.5	11.1	4.7	2.6	1.1	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

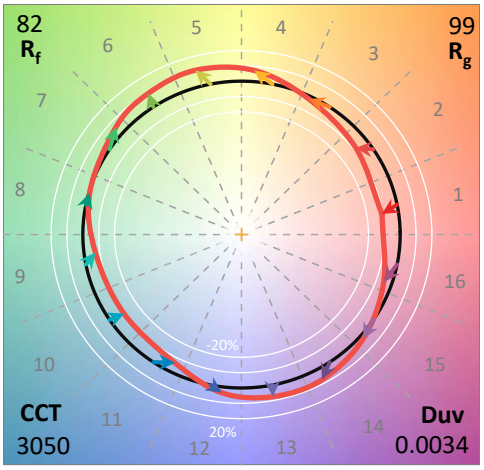
Test Information

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

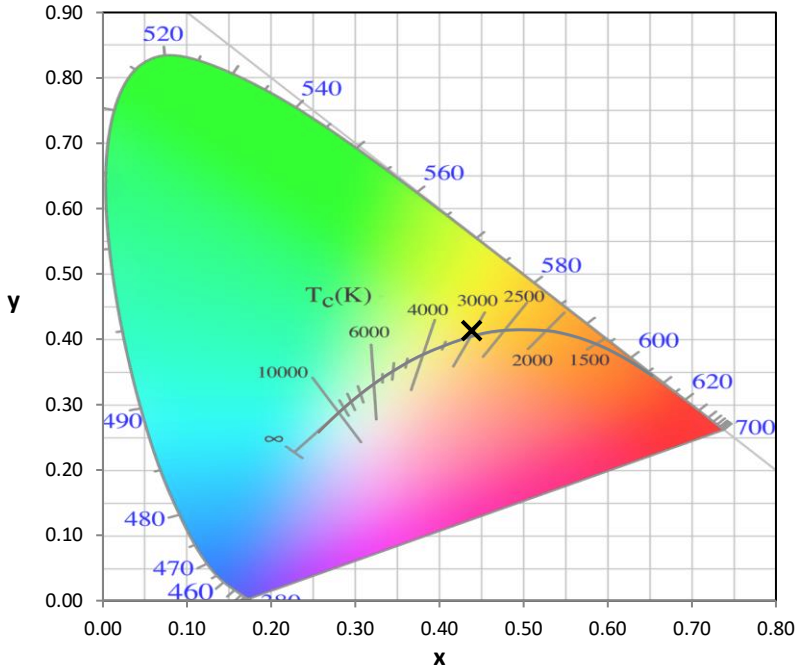
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

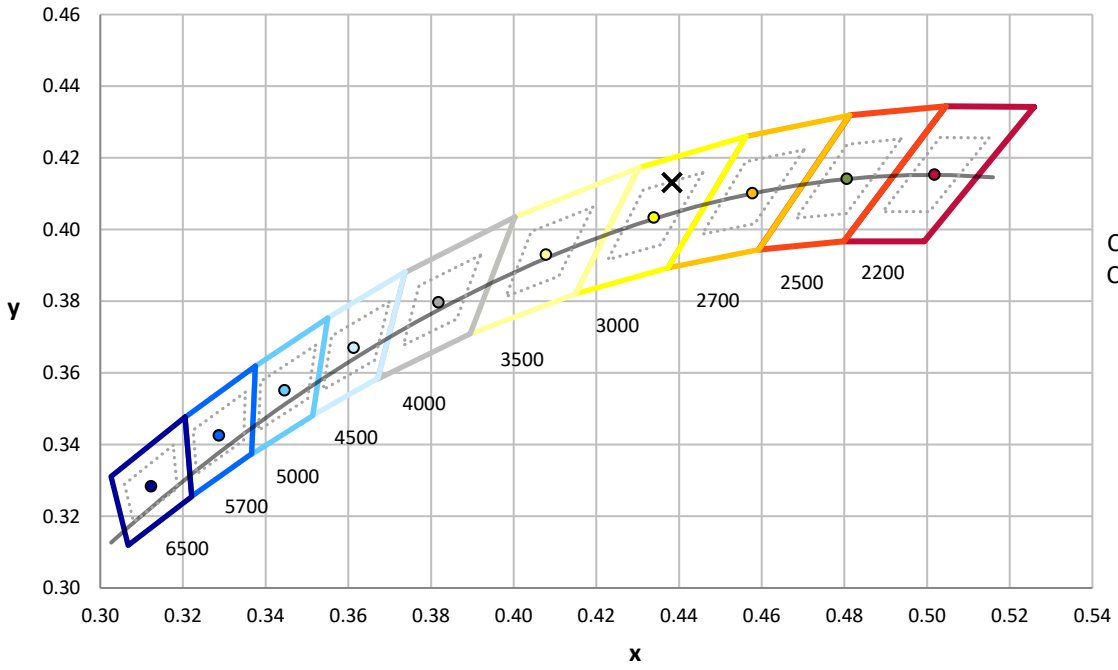
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

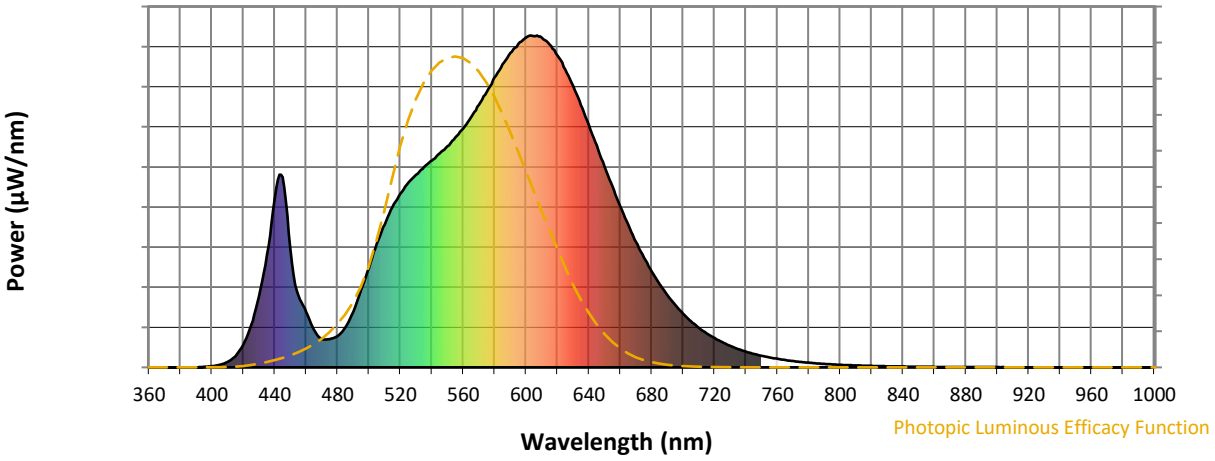


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

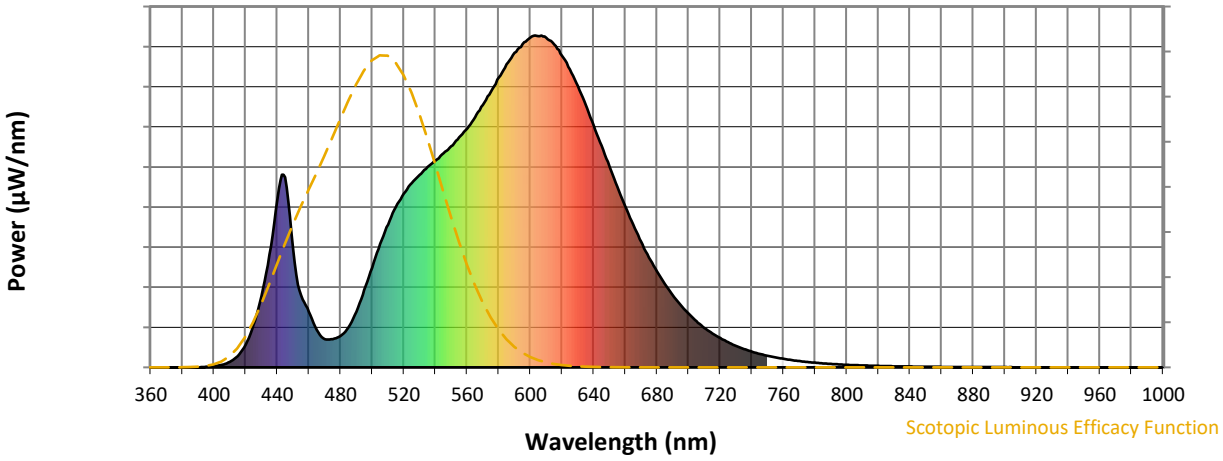


Photopic Lumens: NR

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

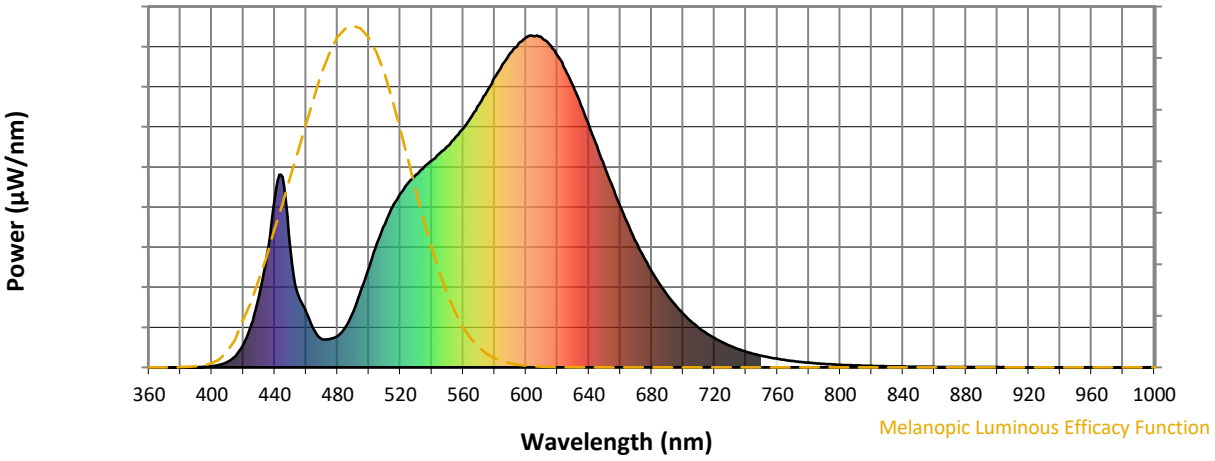


Scotopic Lumens: NR **S/P: 1.27**

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			

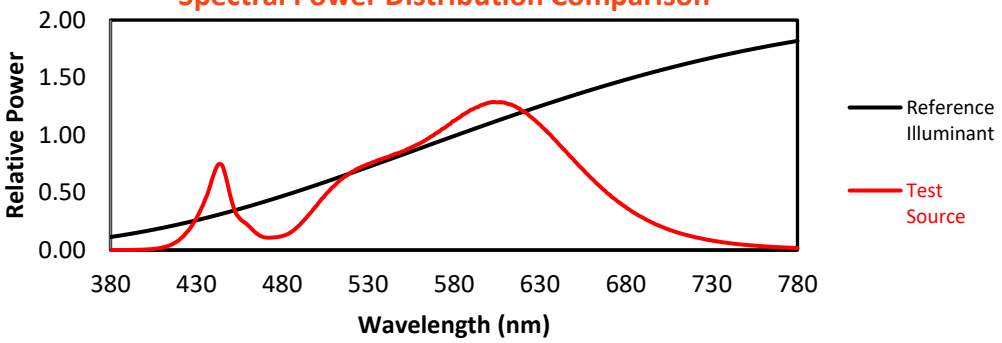
REPORT NUMBER: SP1-2408-195-9

TM-30-18

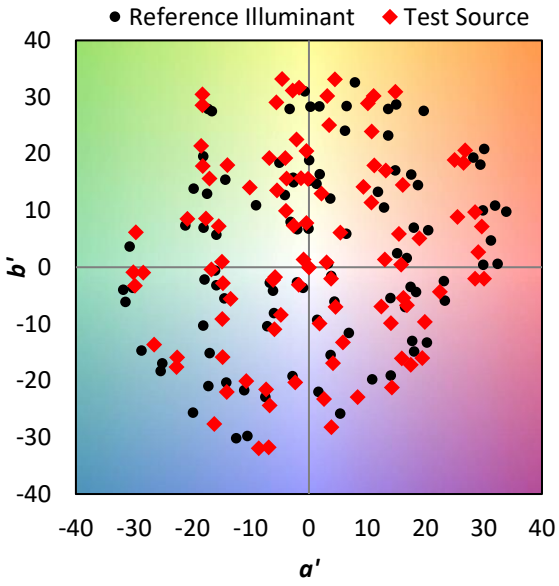
Summary

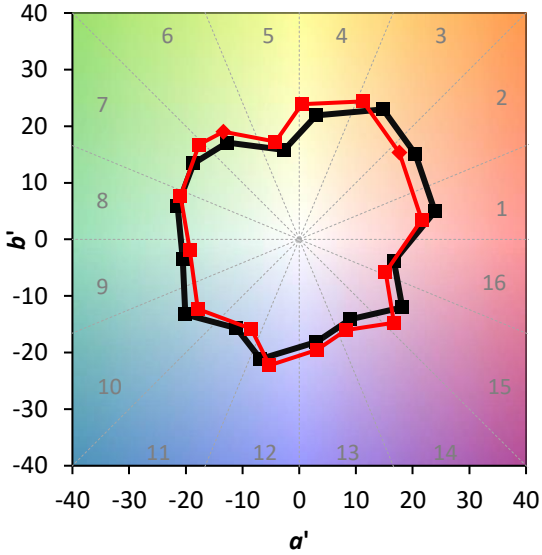
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

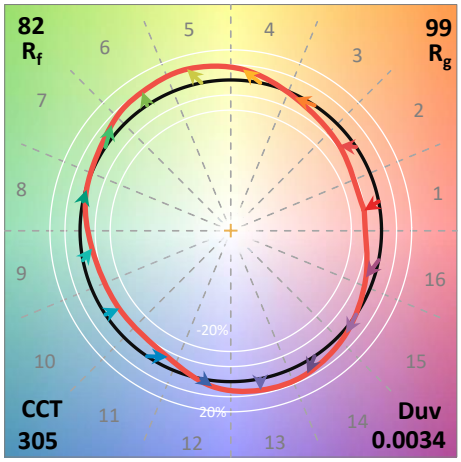
Spectral Power Distribution Comparison

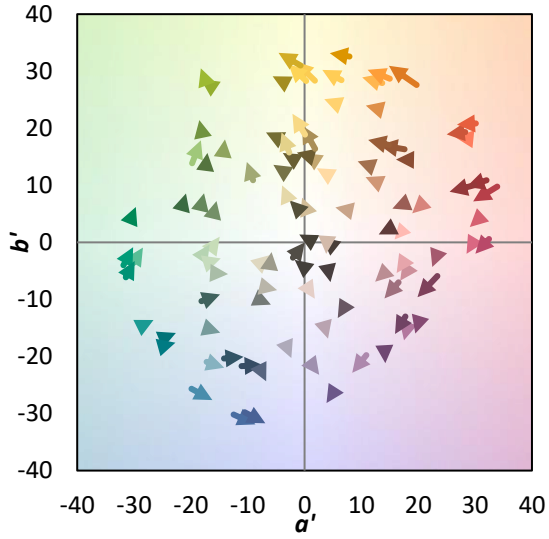


Color Vector Graphics







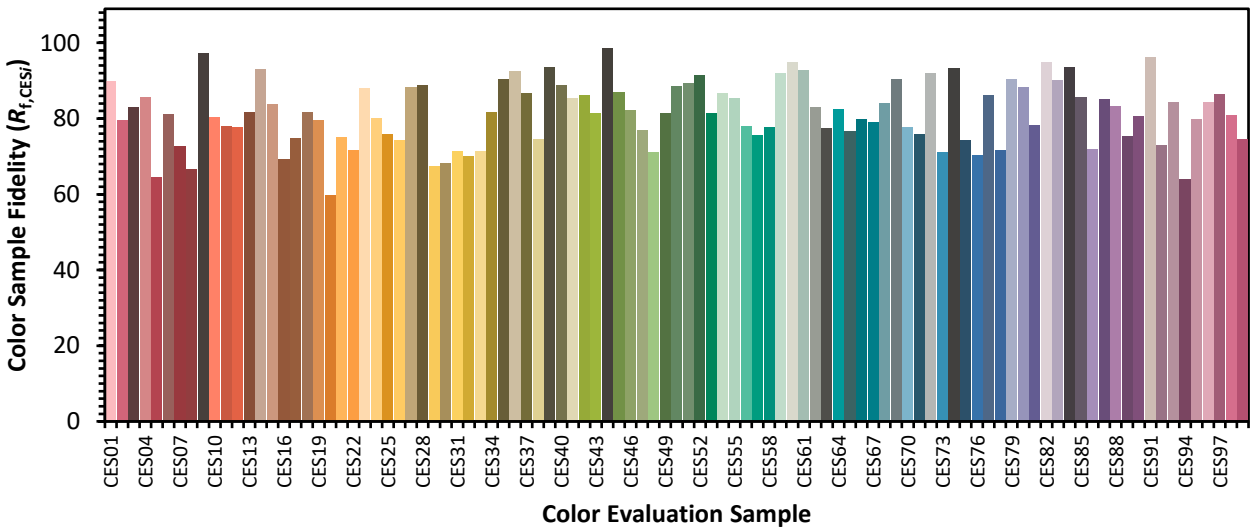


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

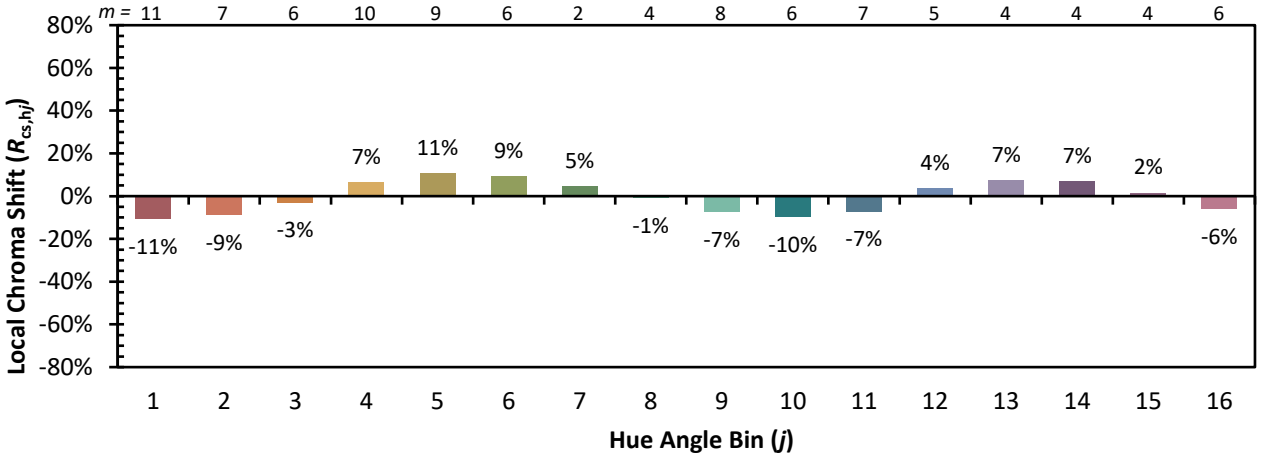
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

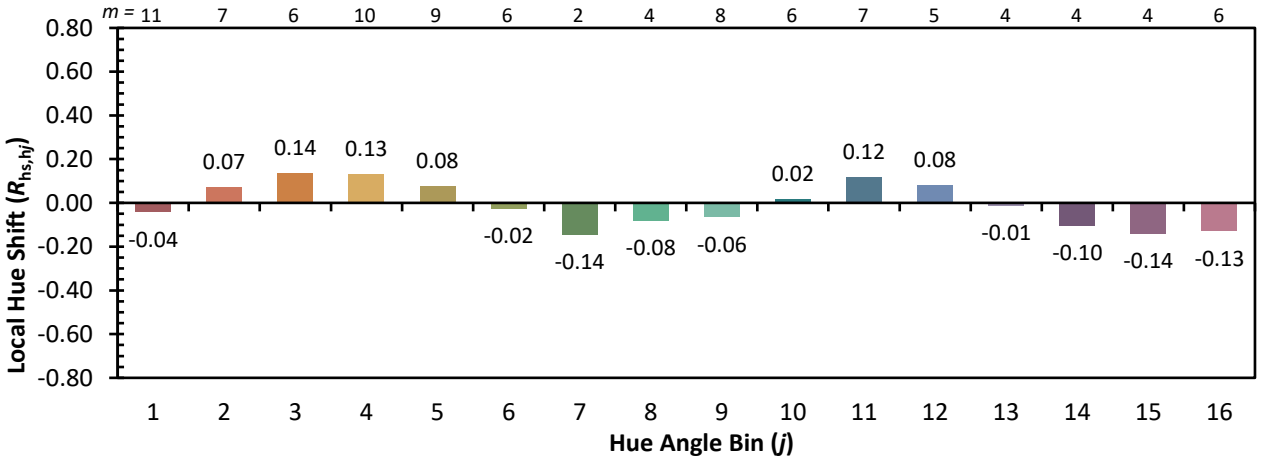


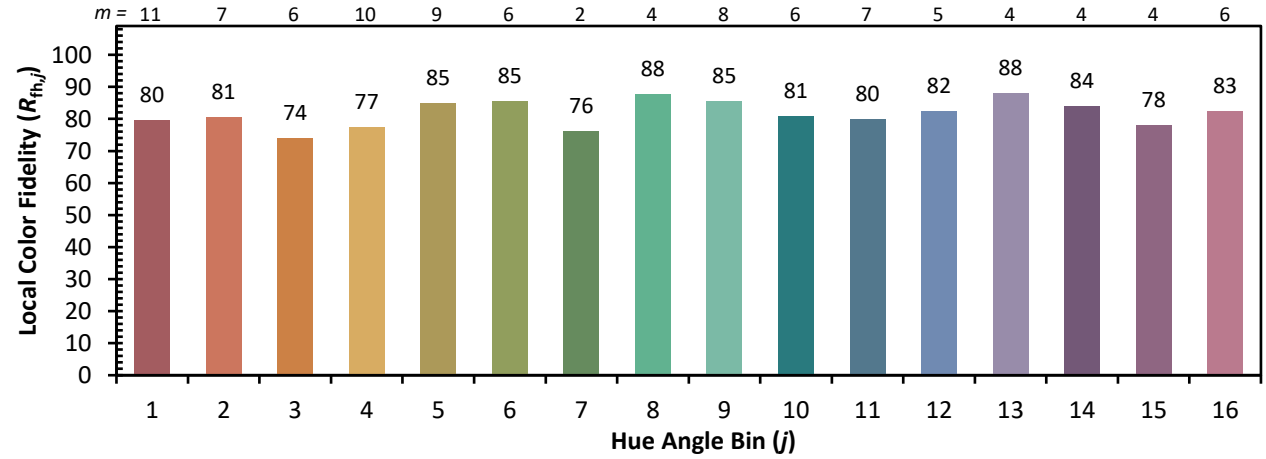
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



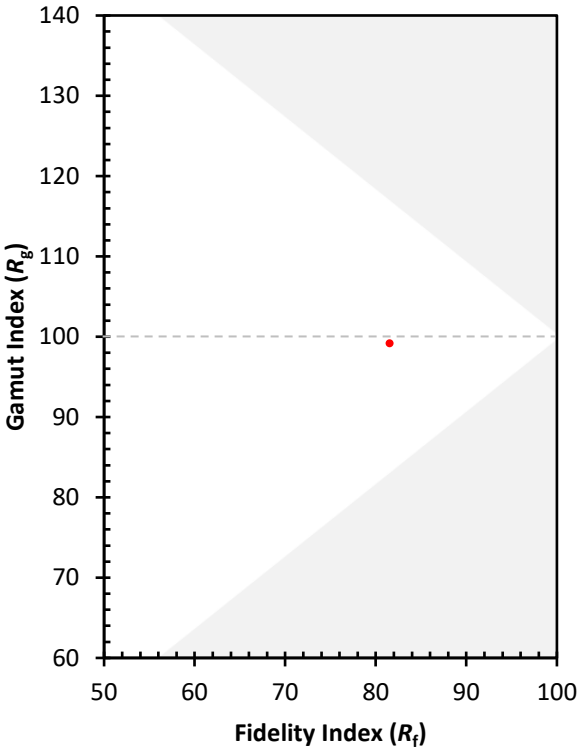


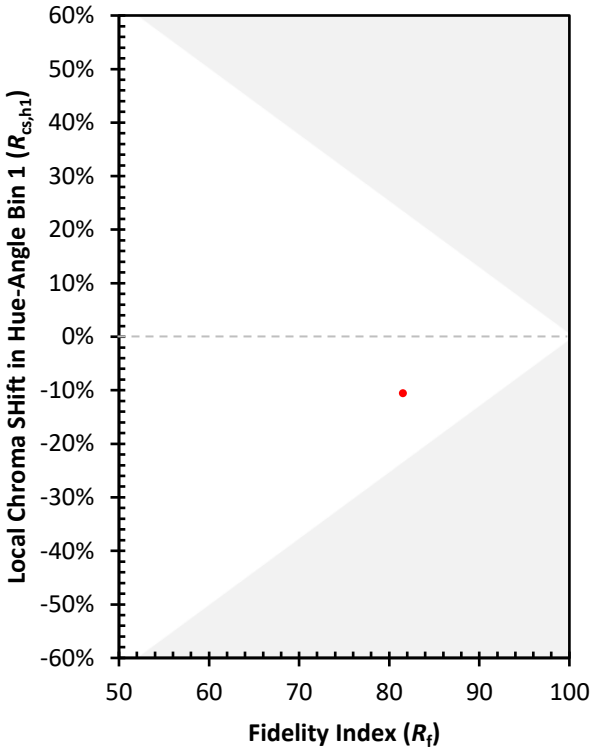


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)