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: P640445

Luminaire Tested: GWS-SA5D-830-U-AFL-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:	P640445
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5D-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24301.3 lumens
Efficiency:	N/A
Efficacy:	118.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G2

Input Watts (W):	204.6
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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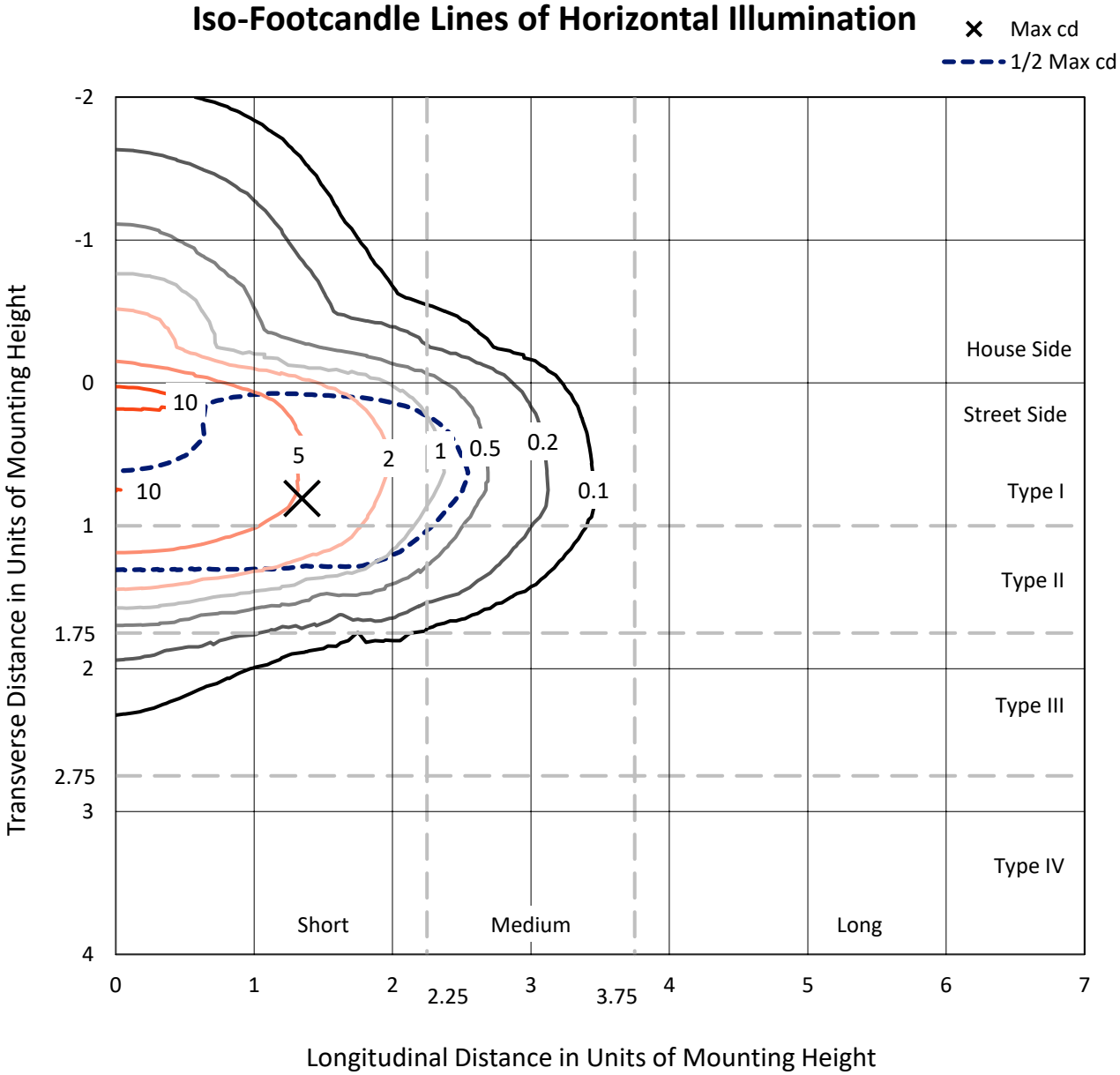
Scaled Data Report

REPORT NUMBER: P640445
CATALOG NUMBER: GWS-SA5D-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - N/A

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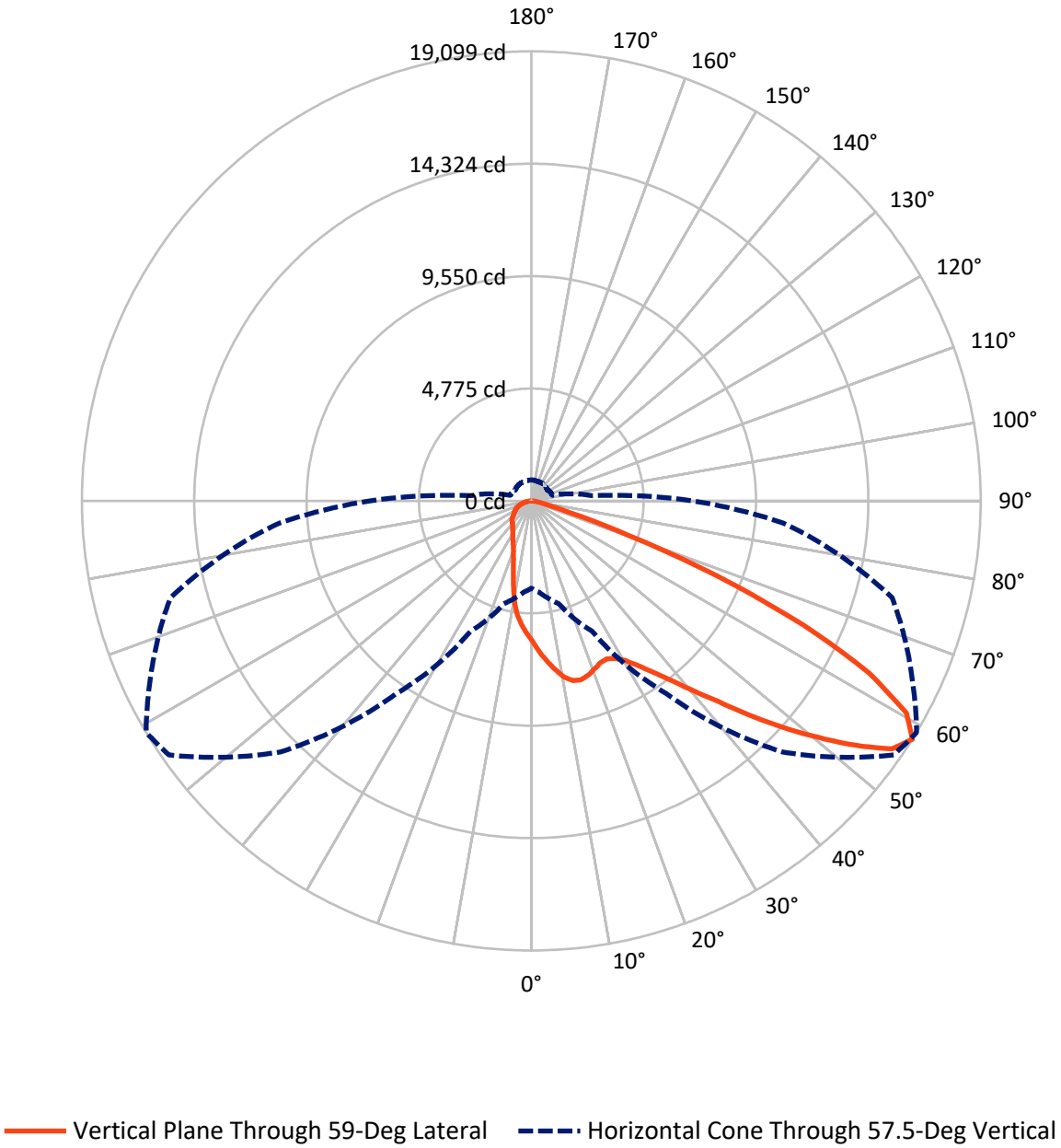
Luminous Intensity Polar Plot



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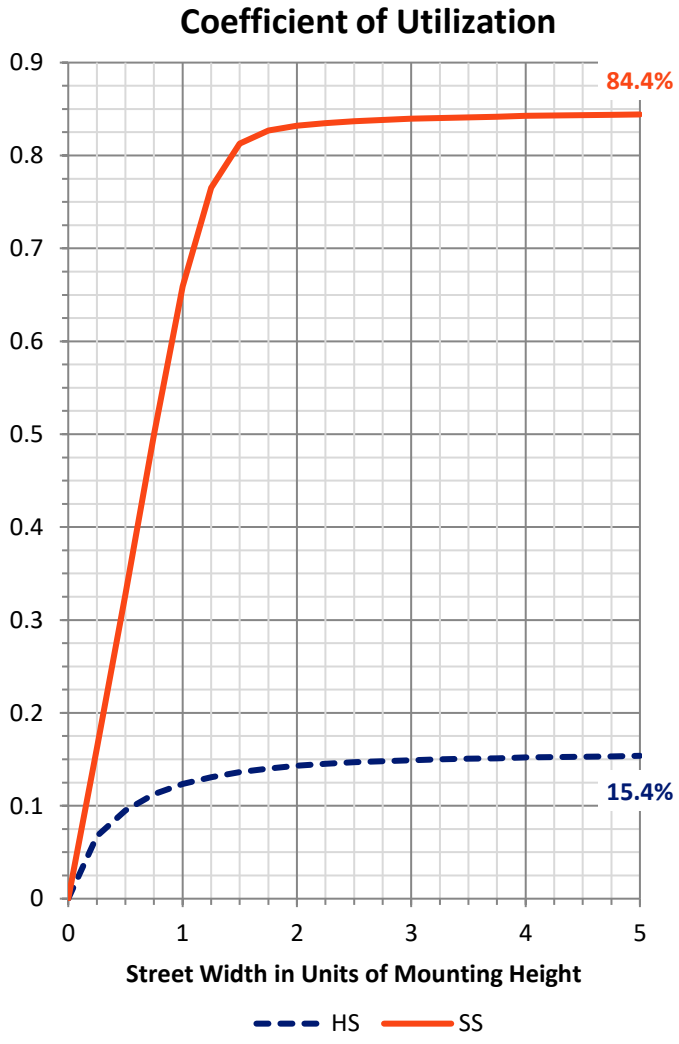
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3771.4	0.0	3771.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20529.9	0.0	20529.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	24301.3	0.0	24301.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.9	2.3
10°-20°	1403.6	5.8
20°-30°	2275.2	9.4
30°-40°	3660.0	15.1
40°-50°	5683.7	23.4
50°-60°	6122.1	25.2
60°-70°	3553.0	14.6
70°-80°	927.5	3.8
80°-90°	122.2	0.5
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°	24301.3	100.0
0°-180°	24301.3	100.0



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REPORT NUMBER: P640445
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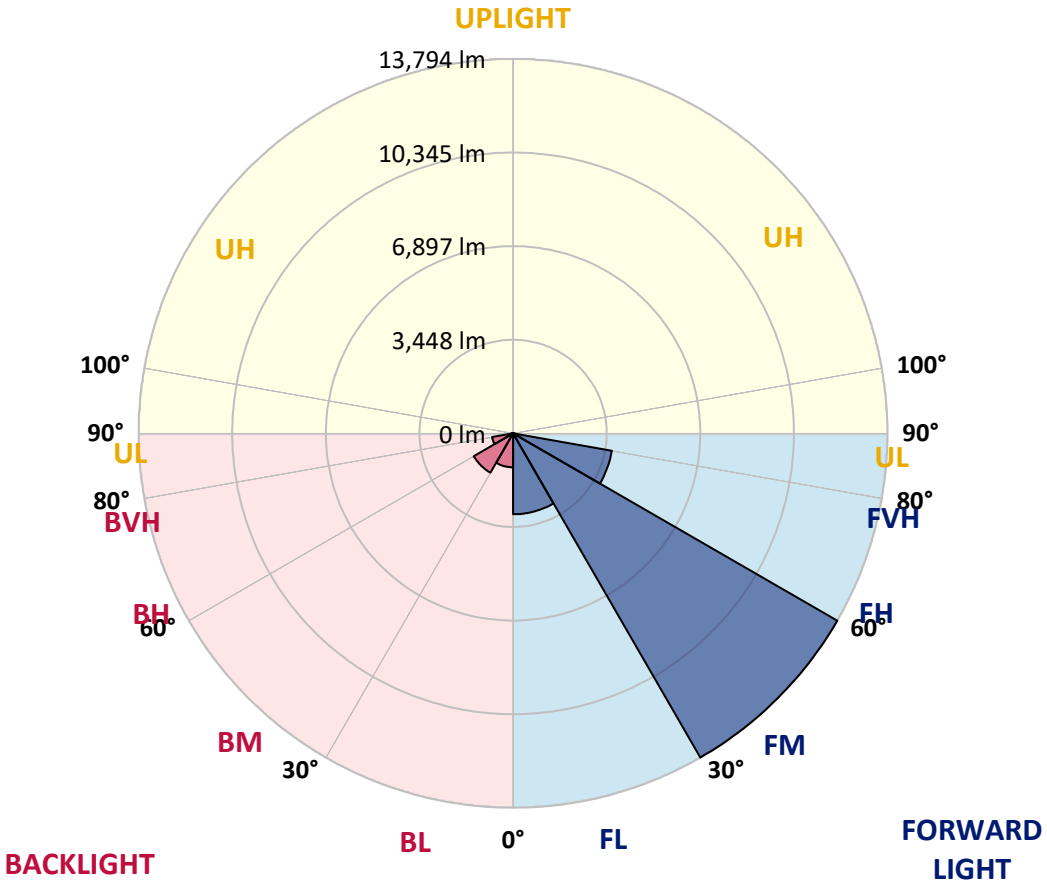
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2981.5	12.3			
FM	(30°-60°)	13793.7	56.8			
FH	(60°-80°)	3696.1	15.2			G2/5000
FVH	(80°-90°)	58.5	0.2			G1/100
BL	(0°-30°)	1251.2	5.1	B3/2500		
BM	(30°-60°)	1672.1	6.9	B2/2500		
BH	(60°-80°)	784.4	3.2	B2/1000		G2/1000
BVH	(80°-90°)	63.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P640445
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5
2.5°	6766.1	6709.7	6749.0	6678.9	6649.8	6572.8	6473.6	6406.9	6304.2	6170.8	6054.4
5°	7438.5	7399.1	7407.7	7332.4	7265.7	7137.4	6933.8	6820.9	6646.4	6377.8	6128.0
7.5°	7417.9	7464.1	7489.8	7554.8	7573.6	7561.6	7378.6	7221.2	7029.6	6625.8	6249.5
10°	6649.8	6737.0	6815.7	7038.1	7308.4	7650.6	7693.4	7599.3	7406.0	6942.3	6394.9
12.5°	5813.2	5879.9	5950.1	6217.0	6631.0	7315.3	7778.9	7837.1	7760.1	7255.4	6559.1
15°	5402.6	5433.4	5500.2	5676.4	6006.5	6766.1	7630.1	7885.0	8023.5	7587.3	6743.9
17.5°	5385.5	5399.2	5431.7	5525.8	5755.1	6341.9	7361.5	7789.2	8230.6	7938.0	6959.4
20°	5739.7	5703.7	5683.2	5681.5	5794.4	6199.9	7101.4	7635.2	8328.1	8297.3	7190.4
22.5°	6230.7	6242.6	6198.1	6088.7	6075.0	6300.8	6971.4	7479.5	8357.2	8615.5	7404.2
25°	6926.9	6986.8	6855.1	6646.4	6543.7	6593.3	7051.8	7431.6	8353.7	8880.6	7537.7
27.5°	7739.6	7785.8	7652.3	7378.6	7166.4	7046.7	7291.3	7573.6	8382.8	9109.9	7618.1
30°	8665.1	8680.5	8497.4	8210.0	7900.4	7643.8	7689.9	7866.2	8531.7	9411.0	7712.2
32.5°	9795.9	9860.9	9583.8	9128.7	8695.9	8367.4	8225.4	8338.3	8853.3	9766.8	7857.6
35°	11231.3	11253.5	10901.1	10249.3	9636.8	9181.7	8884.1	8943.9	9342.6	10264.7	8076.6
37.5°	12584.5	12606.7	12232.1	11626.4	10750.5	10127.8	9696.7	9669.3	9968.7	10967.8	8434.1
40°	13443.3	13506.6	13338.9	12959.1	12122.6	11282.6	10697.5	10603.4	10789.9	11828.3	8932.0
42.5°	13905.2	13932.6	13929.2	13978.8	13480.9	12646.1	11826.6	11638.4	11763.3	12757.3	9434.9
45°	13908.6	13977.1	14160.1	14637.4	14659.7	14139.6	13253.4	12959.1	12844.5	13693.1	9960.2
47.5°	13285.9	13359.5	13862.4	14801.7	15494.5	15612.6	14962.5	14372.2	13889.8	14498.8	10391.3
50°	11400.6	11585.4	12543.4	14204.6	15658.8	16793.0	16592.8	15792.2	14818.8	15121.6	10661.6
52.5°	9763.4	9756.6	10346.8	12517.8	14972.7	17313.1	18170.2	17253.2	15737.4	15516.8	10730.0
55°	7149.3	7188.7	7792.6	9573.5	13142.2	16810.1	19037.5	18597.9	16791.3	15727.2	10702.6
57.5°	3707.3	3902.3	4521.6	6109.2	9985.8	15078.8	18806.6	19099.1	17862.2	15876.0	10738.6
60°	1873.3	1835.7	2058.1	2916.9	5785.9	11777.0	17383.2	18315.6	18055.6	15992.4	10760.8
62.5°	1250.6	1240.3	1178.7	1351.5	2364.3	6974.8	14818.8	16125.8	16712.6	15718.6	10476.8
65°	1082.9	1062.4	949.5	942.6	1147.9	2892.9	10861.7	12676.9	13812.8	14502.3	9797.6
67.5°	975.1	944.3	829.7	773.3	824.6	1271.1	6121.2	8502.6	10199.7	12264.6	8309.2
70°	870.8	855.4	740.8	658.6	653.5	775.0	2254.8	4388.1	6240.9	8367.4	6075.0
72.5°	780.1	752.7	655.2	576.5	537.2	549.2	978.6	1690.2	3229.9	5219.6	3633.7
75°	675.8	655.2	569.7	491.0	443.1	402.0	597.1	781.8	1473.0	2480.6	1715.9
77.5°	521.8	508.1	449.9	390.1	362.7	299.4	362.7	492.7	680.9	1045.3	893.0
80°	302.8	311.4	335.3	304.5	266.9	213.8	236.1	284.0	408.9	566.3	506.4
82.5°	152.3	162.5	217.3	176.2	159.1	124.9	140.3	167.7	213.8	313.1	198.5
85°	12.0	12.0	39.3	44.5	54.7	44.5	56.5	68.4	97.5	124.9	66.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	8.6	15.4	29.1	18.8
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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REPORT NUMBER: P640445
CATALOG NUMBER: GWS-SA5D-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5	5965.5
2.5°	5975.7	5888.5	5784.1	5698.6	5566.9	5496.7	5407.8	5298.3	5253.8	5233.3	5221.3
5°	5987.7	5833.8	5611.4	5406.1	5178.5	4998.9	4798.7	4590.0	4470.3	4441.2	4420.7
7.5°	6032.2	5816.6	5462.5	5123.8	4701.2	4309.5	3927.9	3549.9	3356.5	3283.0	3276.1
10°	6093.8	5809.8	5312.0	4749.1	4035.7	3416.4	2969.9	2673.9	2549.1	2508.0	2494.3
12.5°	6170.8	5804.7	5113.5	4229.0	3267.6	2682.5	2427.6	2379.7	2396.8	2393.4	2393.4
15°	6268.3	5811.5	4874.0	3640.5	2643.2	2328.4	2333.5	2390.0	2443.0	2451.5	2451.5
17.5°	6374.4	5804.7	4526.7	3050.3	2268.5	2244.5	2323.2	2401.9	2449.8	2456.7	2456.7
20°	6489.0	5772.2	4088.8	2494.3	2104.3	2191.5	2277.0	2338.6	2367.7	2374.6	2374.6
22.5°	6557.4	5679.8	3613.2	2111.1	1999.9	2107.7	2164.1	2227.4	2230.9	2176.1	2174.4
25°	6547.1	5507.0	3070.8	1864.7	1888.7	1982.8	2054.6	2010.2	1955.4	1924.6	1919.5
27.5°	6482.1	5247.0	2518.3	1678.3	1757.0	1863.0	1840.8	1803.2	1789.5	1755.3	1751.8
30°	6400.0	4927.0	2022.1	1532.9	1620.1	1717.6	1683.4	1680.0	1666.3	1628.7	1628.7
32.5°	6321.3	4596.9	1647.5	1425.1	1532.9	1539.7	1587.6	1591.0	1584.2	1519.2	1512.3
35°	6299.1	4266.7	1394.3	1339.5	1447.3	1443.9	1512.3	1510.6	1392.6	1301.9	1300.2
37.5°	6365.8	3931.4	1243.7	1269.4	1329.3	1373.8	1428.5	1329.3	1289.9	1235.2	1231.8
40°	6507.8	3621.7	1166.8	1228.3	1254.0	1319.0	1233.5	1240.3	1230.0	1189.0	1183.9
42.5°	6696.0	3358.3	1124.0	1214.7	1211.2	1228.3	1134.2	1161.6	1177.0	1146.2	1141.1
45°	6877.3	3129.0	1101.7	1163.3	1180.4	1081.2	1062.4	1088.1	1112.0	1100.0	1094.9
47.5°	7010.8	2930.6	1089.8	1093.2	1141.1	1031.6	1000.8	1012.8	1041.9	1047.0	1045.3
50°	7051.8	2761.2	1076.1	1035.0	1024.8	982.0	958.0	954.6	988.8	1012.8	1016.2
52.5°	6973.1	2610.6	1040.2	983.7	934.1	940.9	932.4	915.3	949.5	982.0	985.4
55°	6856.8	2525.1	983.7	934.1	875.9	903.3	906.7	891.3	913.6	935.8	935.8
57.5°	*6865.4*	*2574.7*	*929.0*	*887.9*	*824.6*	*860.5*	*879.3*	*872.5*	*872.5*	*889.6*	*891.3*
60°	6921.8	2646.6	893.0	829.7	773.3	810.9	853.7	846.8	831.4	853.7	853.7
62.5°	6759.3	2550.8	869.1	773.3	718.5	763.0	814.3	810.9	793.8	829.7	833.1
65°	6280.3	2294.2	841.7	703.1	663.8	715.1	759.6	771.6	756.2	804.1	812.6
67.5°	5264.1	1929.8	788.7	636.4	609.0	656.9	699.7	716.8	704.8	761.3	768.1
70°	3924.5	1561.9	704.8	562.8	542.3	585.1	624.4	631.3	633.0	699.7	706.6
72.5°	2502.9	1214.7	593.6	480.7	465.3	497.8	526.9	554.3	566.3	629.6	627.9
75°	1396.0	903.3	477.3	407.2	379.8	405.5	439.7	472.2	506.4	598.8	609.0
77.5°	804.1	634.7	378.1	326.8	294.3	321.6	350.7	396.9	499.5	580.0	569.7
80°	453.4	412.3	285.7	239.5	219.0	239.5	261.7	349.0	393.5	427.7	432.8
82.5°	212.1	231.0	195.0	147.1	147.1	160.8	181.3	270.3	297.7	242.9	212.1
85°	77.0	104.4	95.8	75.3	66.7	65.0	112.9	154.0	95.8	85.5	73.6
87.5°	20.5	29.1	27.4	18.8	10.3	8.6	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

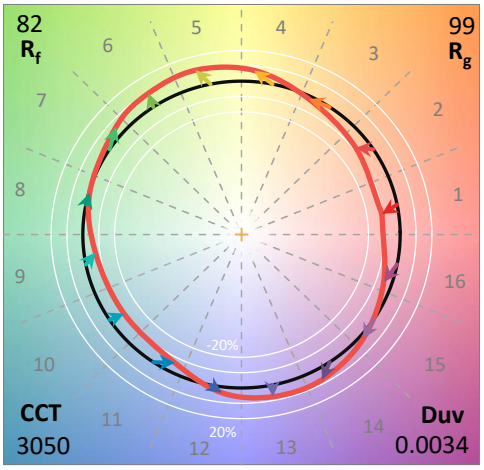
Test Information

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

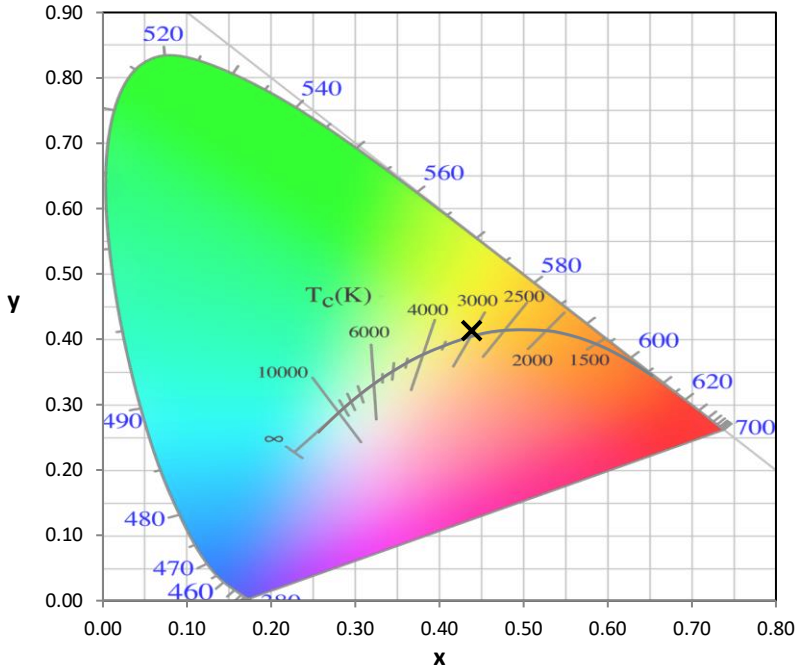
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

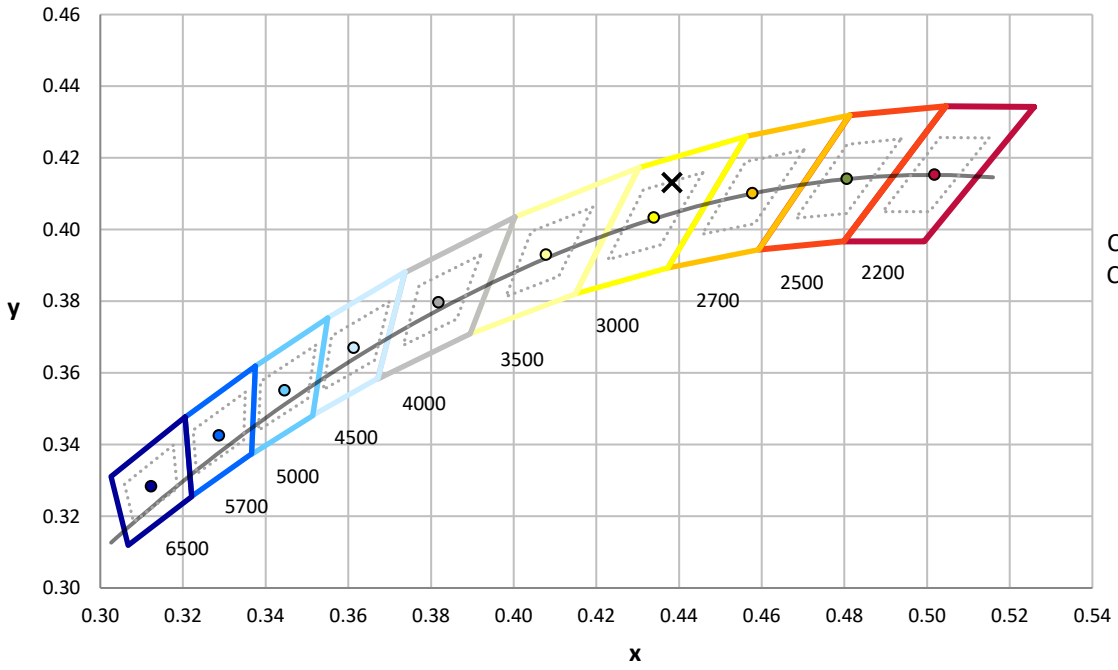
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

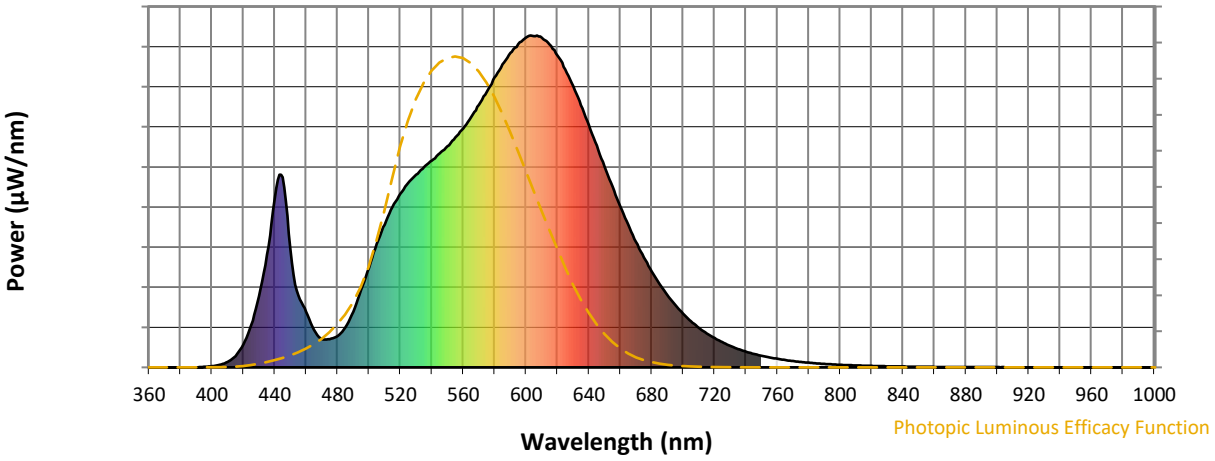


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

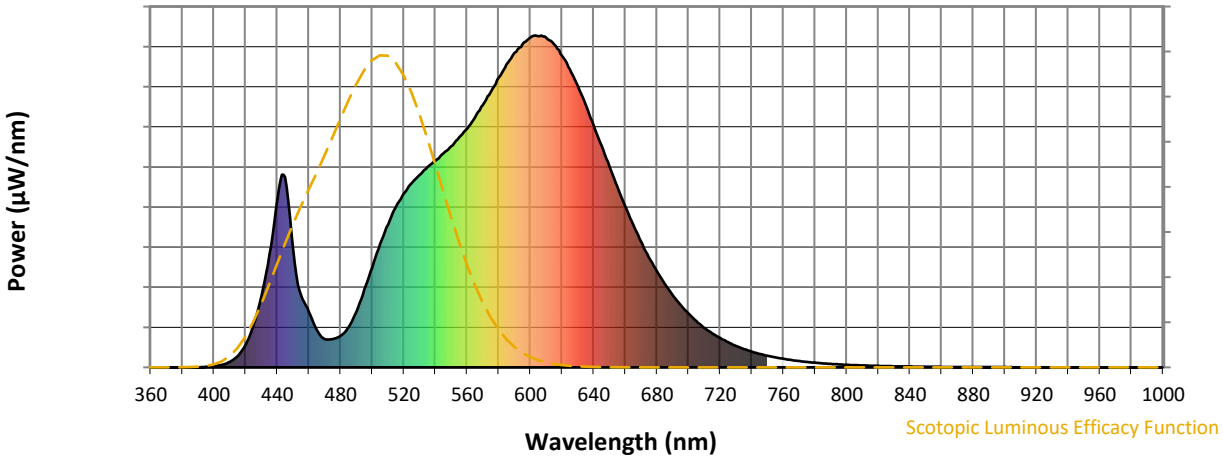


Photopic Lumens: NR

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

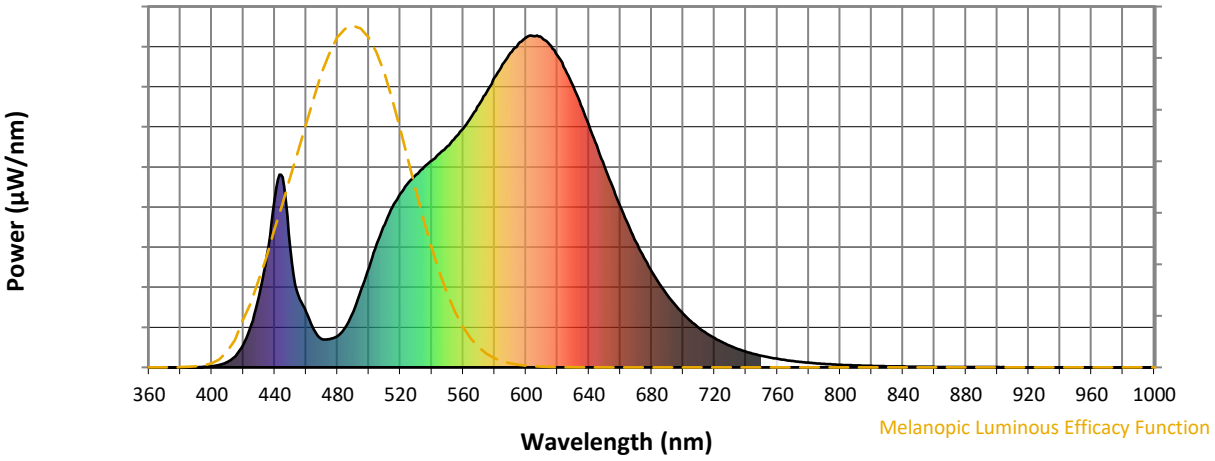


Scotopic Lumens: NR **S/P: 1.27**

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			

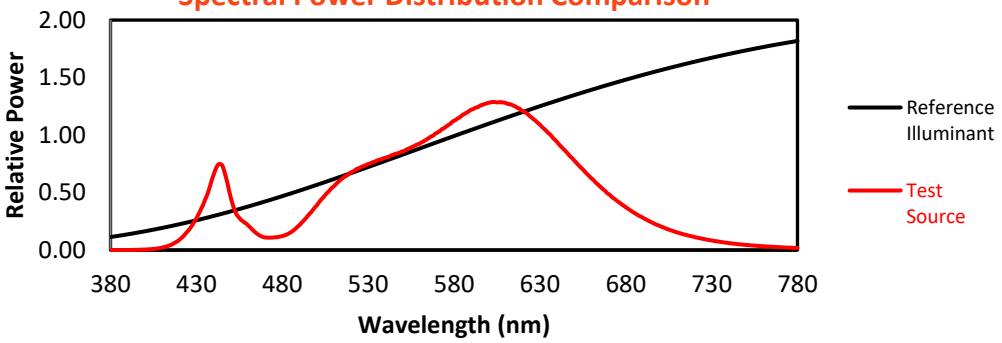
REPORT NUMBER: SP1-2408-195-9

TM-30-18

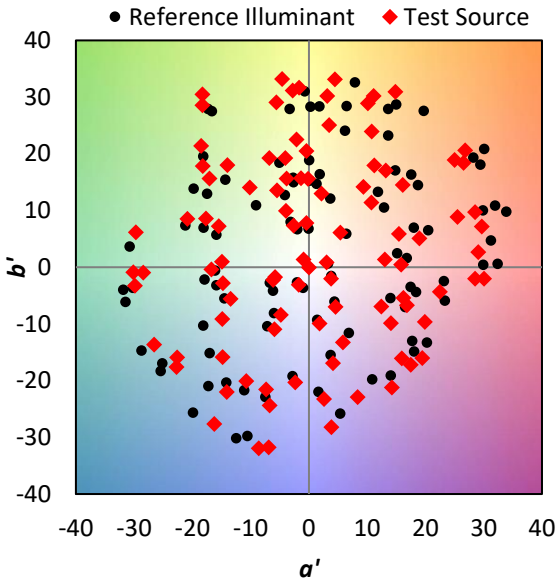
Summary

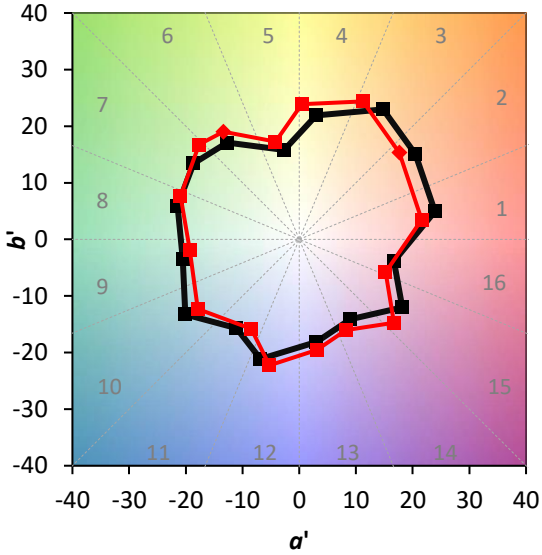
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

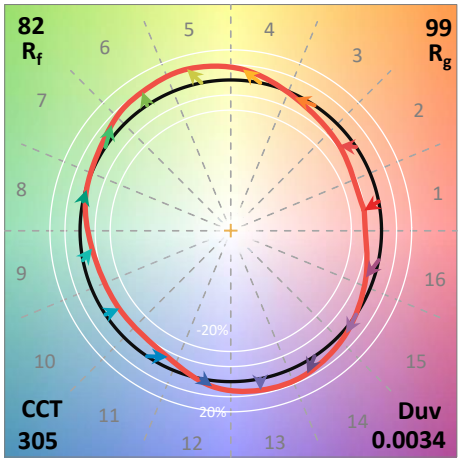
Spectral Power Distribution Comparison

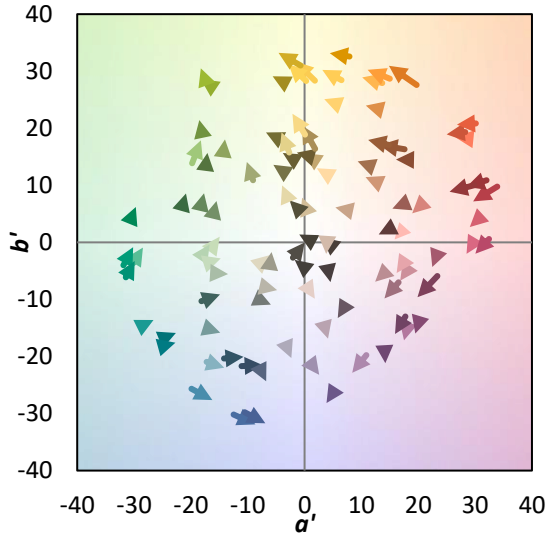


Color Vector Graphics







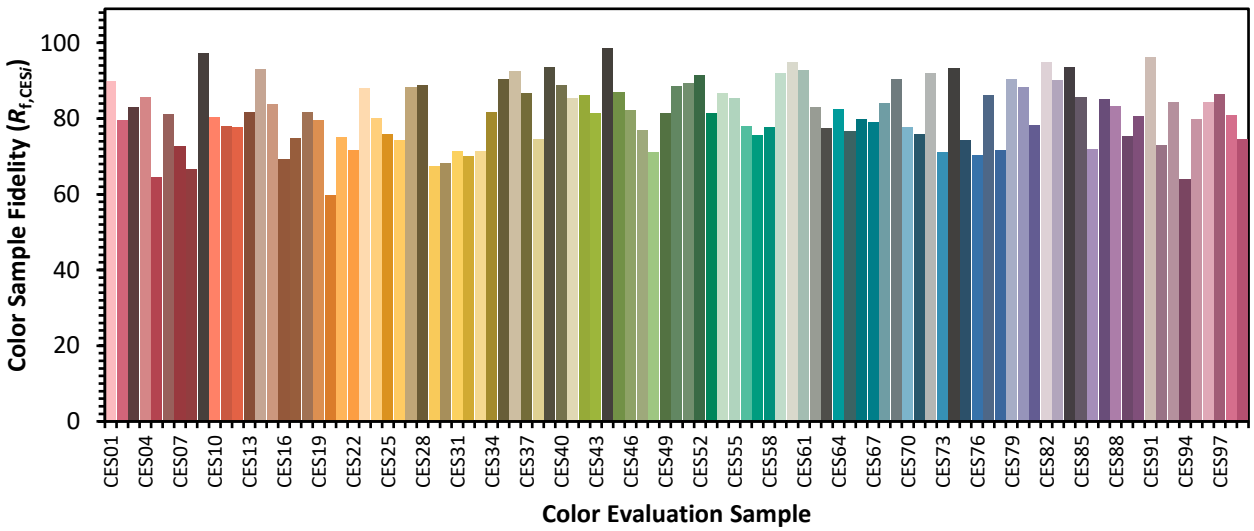


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

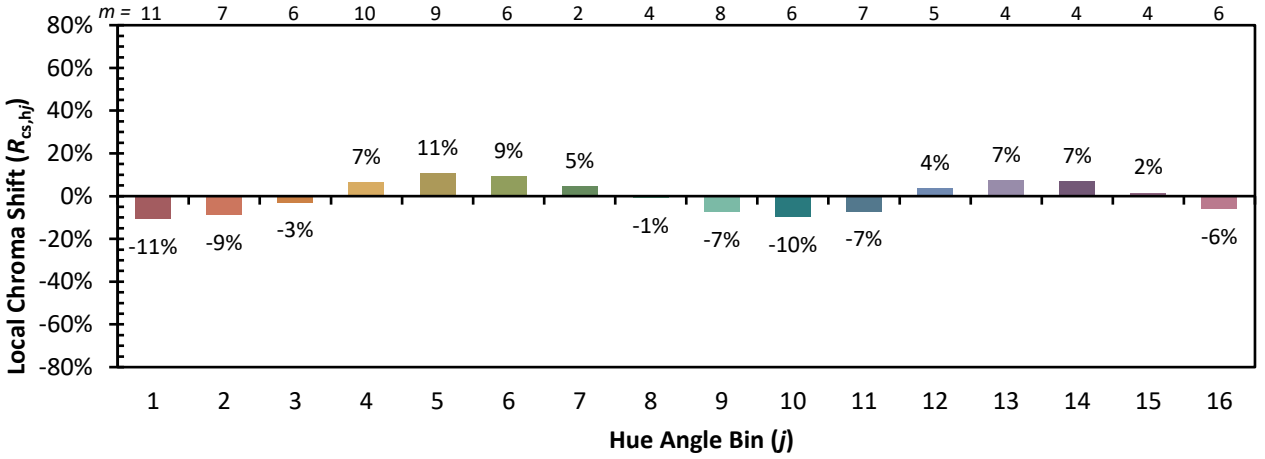
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

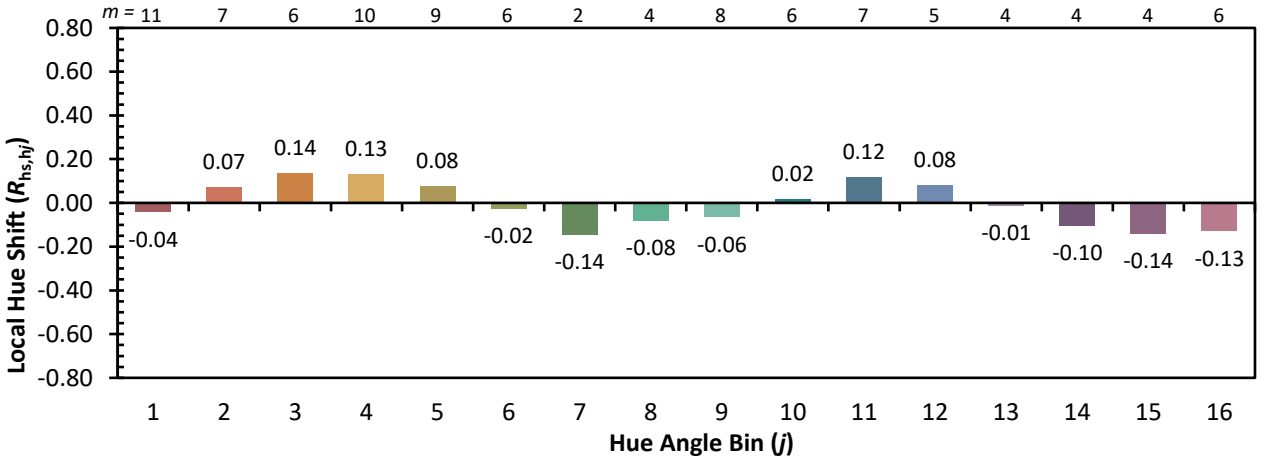


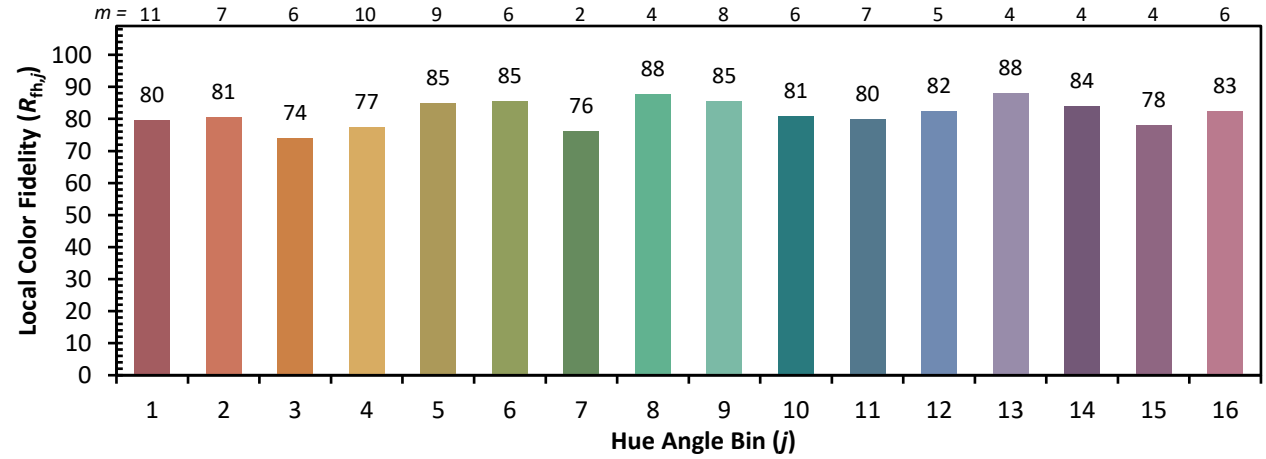
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



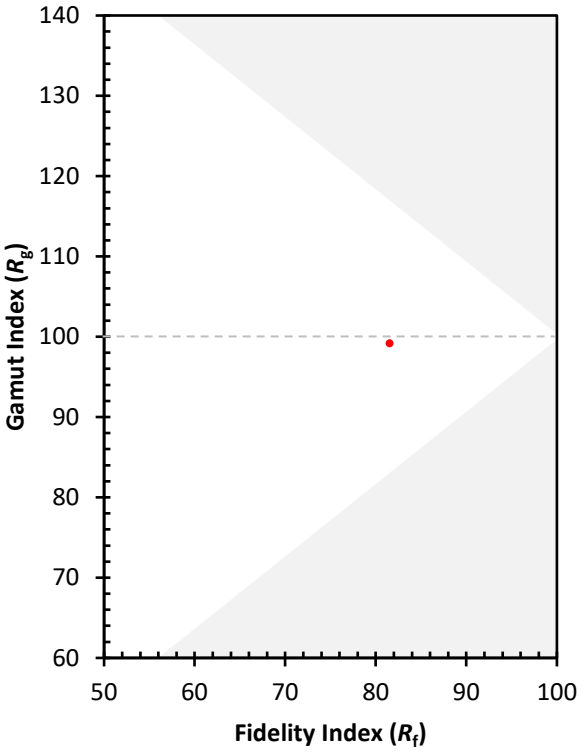


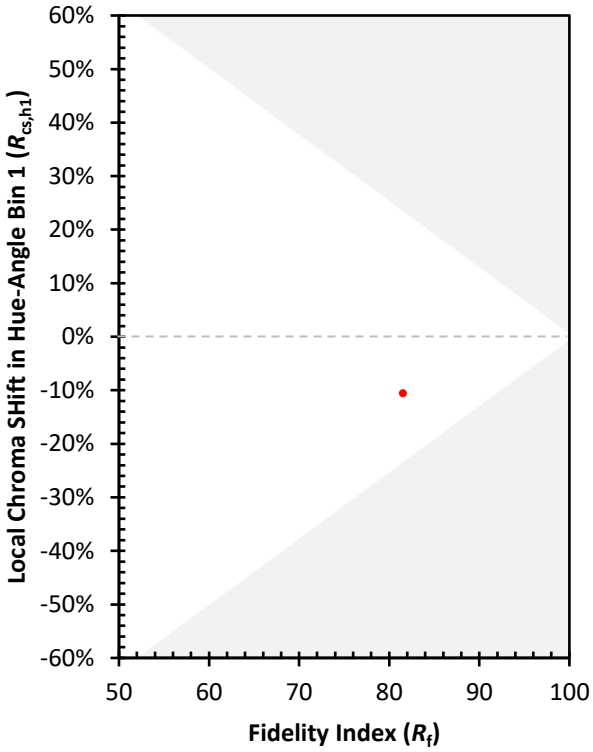


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)