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: P637476

Luminaire Tested: GWS-SA4C-830-U-RW-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:	P637476
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9994.3 lumens
Efficiency:	N/A
Efficacy:	77.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B3 - U0 - G0

Input Watts (W):	128.5
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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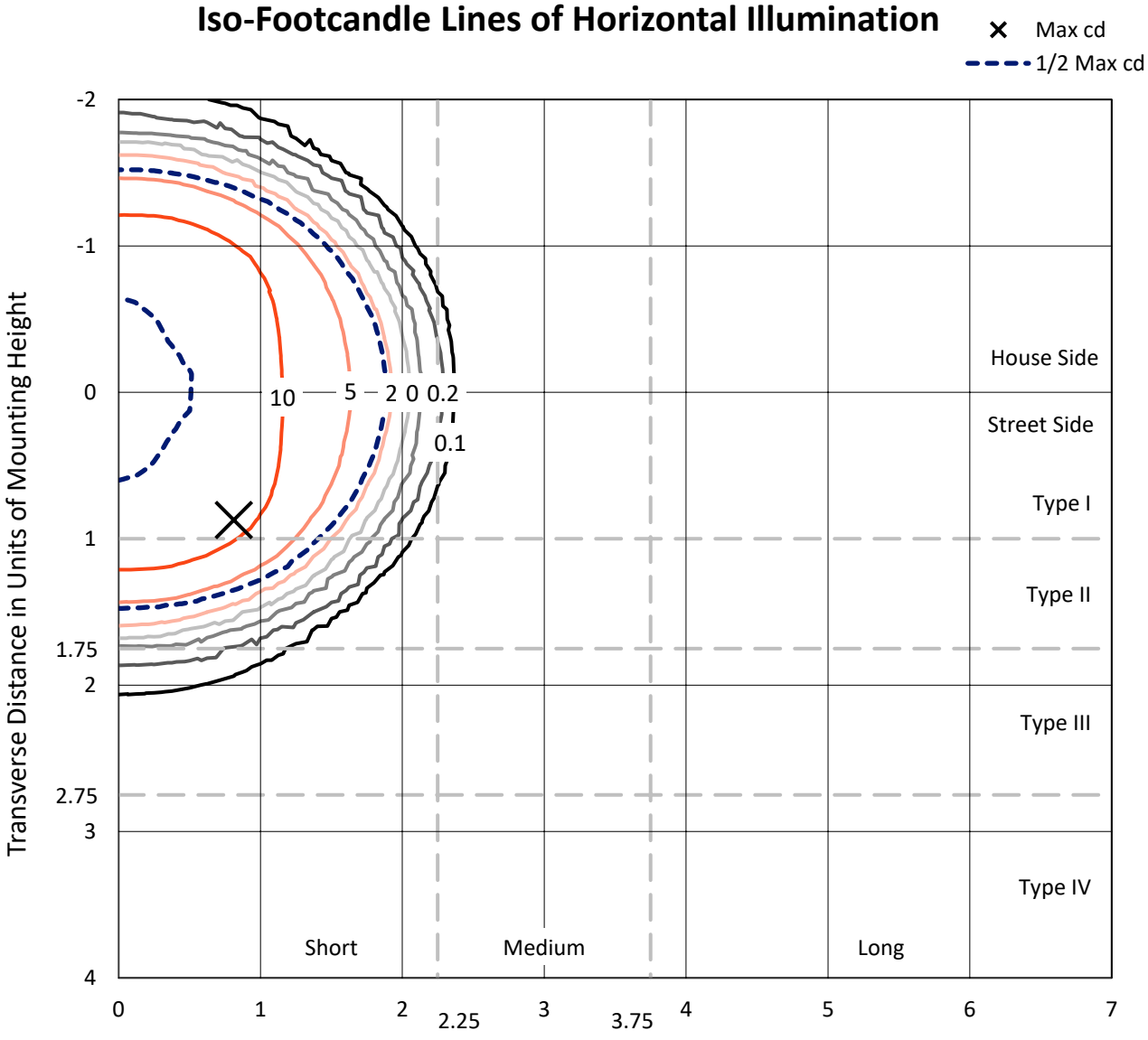
Scaled Data Report

REPORT NUMBER: P637476
CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17 fc
Type V - Short - N/A

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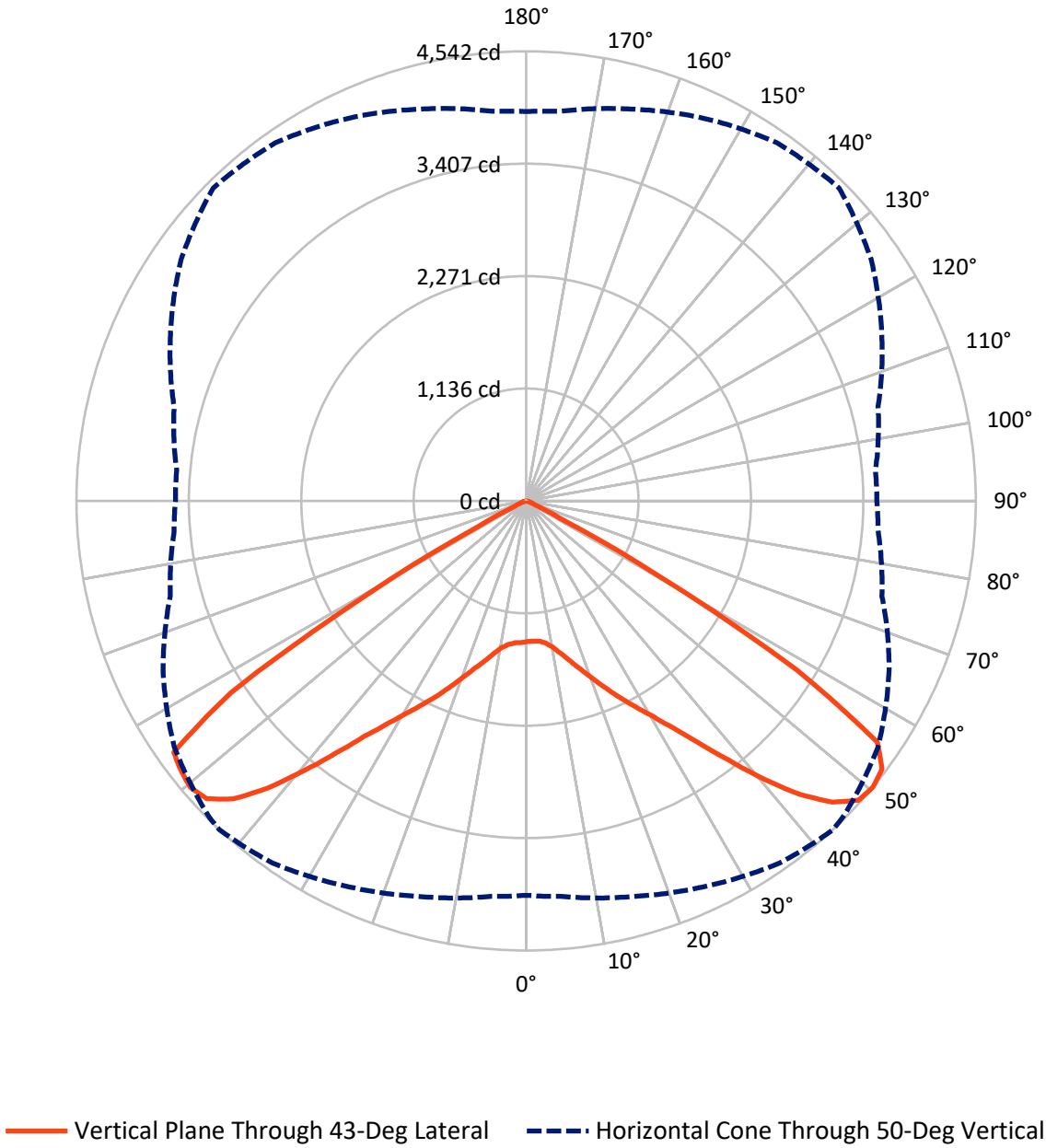
Luminous Intensity Polar Plot



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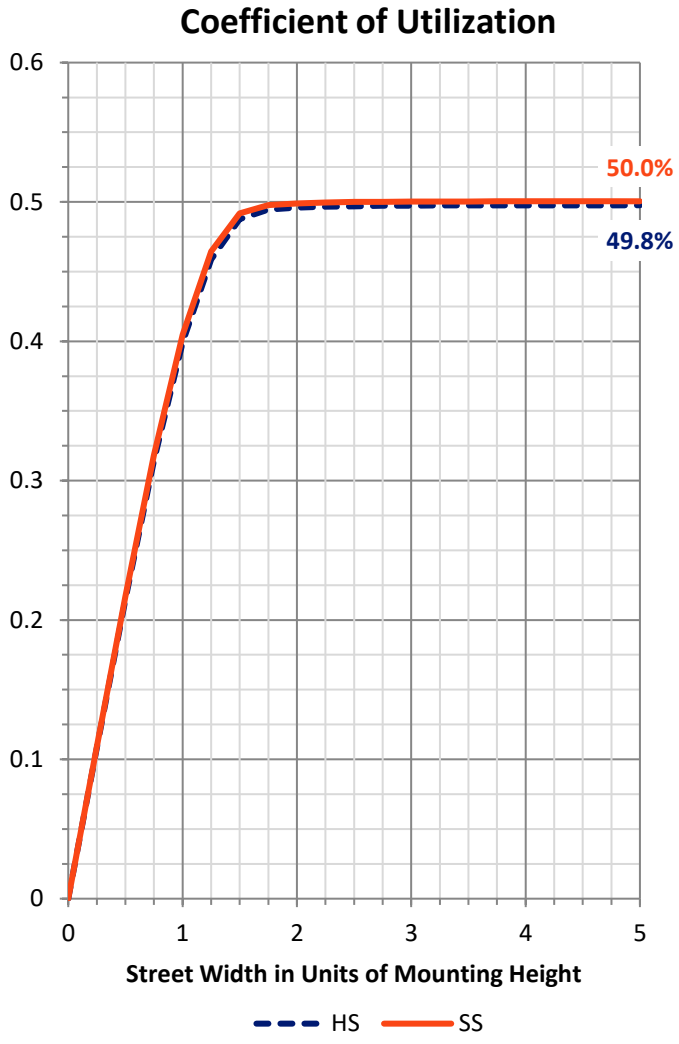
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4997.0	0.0	4997.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4997.3	0.0	4997.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9994.3	0.0	9994.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.4
10°-20°	481.7	4.8
20°-30°	974.6	9.8
30°-40°	1808.3	18.1
40°-50°	3001.7	30.0
50°-60°	3063.3	30.7
60°-70°	502.4	5.0
70°-80°	22.0	0.2
80°-90°	0.3	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°	9994.3	100.0
0°-180°	9994.3	100.0



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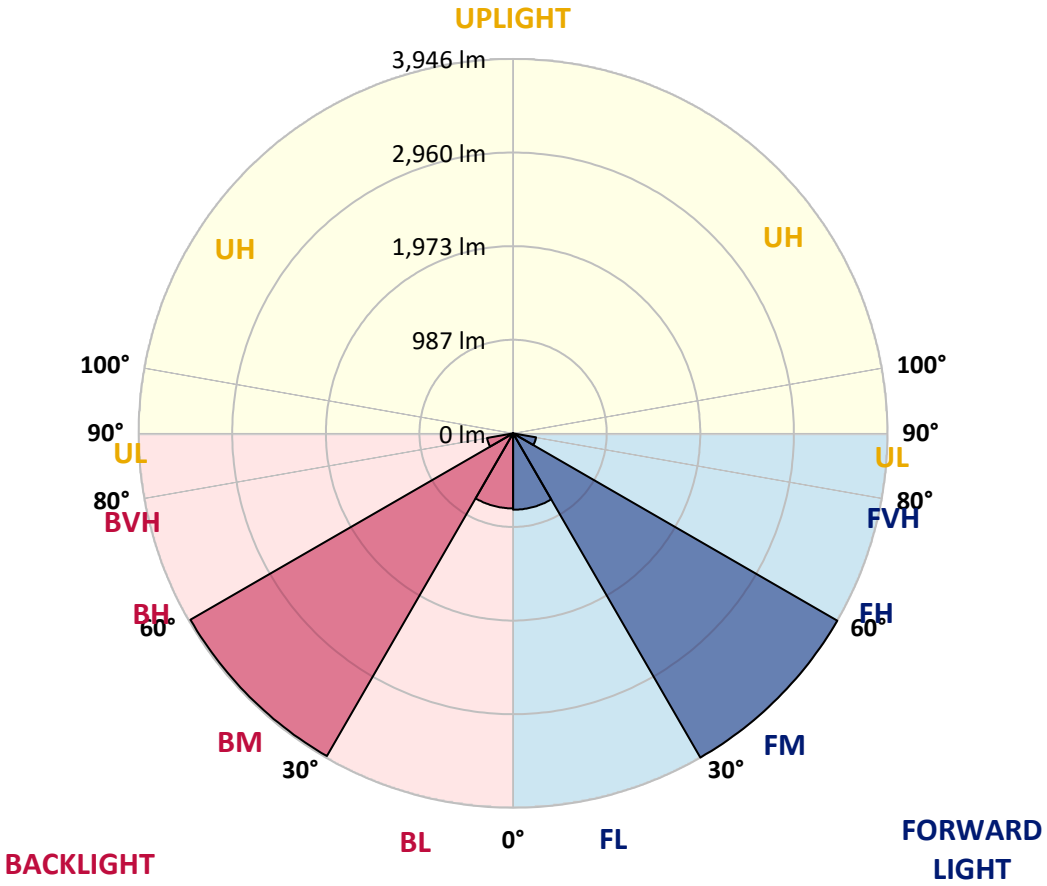
REPORT NUMBER: P637476
CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	805.2	8.1			
FM	(30°-60°)	3946.2	39.5			
FH	(60°-80°)	245.8	2.5			G0/660
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	791.2	7.9	B2/1000		
BM	(30°-60°)	3927.1	39.3	B3/5000		
BH	(60°-80°)	278.6	2.8	B1/500		G0/660
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
Type V Short



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REPORT NUMBER: P637476
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1421.5	1421.5	1421.5	1421.5	1421.5	*1421.5*	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1395.0	1398.3	1402.7	1407.2	1412.7	*1418.2*	1421.5	1431.5	1429.3	1438.1	1438.1
5°	1379.5	1382.8	1388.4	1398.3	1410.5	*1422.6*	1431.5	1451.4	1462.4	1480.1	1486.7
7.5°	1387.3	1391.7	1398.3	1413.8	1432.6	*1451.4*	1461.3	1493.4	1515.5	1548.7	1567.4
10°	1412.7	1417.1	1428.2	1454.7	1479.0	*1505.5*	1517.7	1558.6	1594.0	1639.3	1665.8
12.5°	1441.4	1447.0	1469.1	1508.9	1550.9	*1586.2*	1602.8	1648.1	1684.6	1735.5	1777.5
15°	1471.3	1480.1	1514.4	1573.0	1632.7	*1680.2*	1697.9	1746.5	1783.0	1837.2	1884.7
17.5°	1540.9	1550.9	1589.6	1652.6	1734.4	*1789.6*	1805.1	1855.9	1883.6	1920.1	1969.8
20°	1628.2	1647.0	1694.6	1770.8	1860.4	*1913.4*	1924.5	1974.2	1972.0	1987.5	2030.6
22.5°	1736.6	1749.8	1801.8	1892.4	1993.0	*2051.6*	2077.0	2098.0	2070.4	2057.1	2084.8
25°	1849.3	1864.8	1921.2	2020.7	2133.4	*2200.8*	2221.8	2238.4	2194.2	2144.5	2147.8
27.5°	1995.2	2006.3	2061.6	2167.7	2280.4	*2356.7*	2375.5	2404.2	2345.6	2266.0	2243.9
30°	2168.8	2179.8	2238.4	2350.1	2461.7	*2526.9*	2555.7	2591.0	2526.9	2427.4	2402.0
32.5°	2372.2	2383.2	2458.4	2573.3	2665.1	*2735.8*	2763.5	2801.1	2750.2	2638.6	2609.8
35°	2615.4	2622.0	2710.4	2835.3	2932.6	*3001.1*	3019.9	3064.1	3007.8	2896.1	2880.6
37.5°	2897.2	2905.0	3001.1	3145.9	3245.4	*3321.7*	3351.5	3363.7	3295.2	3170.3	3158.1
40°	3206.7	3232.2	3326.1	3482.0	3593.6	*3689.8*	3716.3	3675.4	3579.3	3409.0	3386.9
42.5°	3529.5	3551.6	3656.6	3825.8	3955.1	*4053.5*	4054.6	3966.1	3802.5	3567.1	3533.9
45°	3798.1	3807.0	3942.9	4113.2	4272.3	*4342.0*	4348.6	4188.3	3941.8	3658.8	3588.1
47.5°	3982.7	3997.1	4115.4	4279.0	4454.7	*4517.7*	4504.5	4304.4	4008.1	3718.5	3601.4
50°	*3984.9*	*4009.2*	*4137.5*	*4295.5*	*4465.8*	*4542.0*	*4523.3*	*4337.5*	*4045.7*	*3720.7*	*3569.3*
52.5°	3632.3	3672.1	3881.0	4109.8	4370.7	*4501.1*	4505.6	4380.7	4031.4	3685.4	3540.6
55°	2740.3	2783.4	3046.5	3436.7	3940.7	*4304.4*	4367.4	4329.8	4014.8	3700.8	3591.4
57.5°	1450.3	1417.1	1563.0	1949.9	2583.3	*3226.6*	3411.2	3711.9	3830.2	3719.6	3685.4
60°	316.1	337.1	448.8	604.6	1008.1	*1517.7*	1697.9	2213.0	2825.4	3097.3	3294.1
62.5°	136.0	133.8	139.3	158.1	231.0	*384.7*	469.8	767.1	1210.4	1662.5	1968.7
65°	111.6	112.7	117.2	117.2	109.4	*110.5*	116.1	175.8	283.0	396.8	532.8
67.5°	84.0	85.1	92.9	95.1	89.5	*79.6*	78.5	66.3	69.6	87.3	90.6
70°	53.1	53.1	57.5	59.7	59.7	*55.3*	54.2	47.5	46.4	53.1	59.7
72.5°	28.7	28.7	31.0	32.1	31.0	*29.8*	29.8	28.7	27.6	32.1	40.9
75°	12.2	12.2	13.3	13.3	12.2	*12.2*	12.2	12.2	12.2	14.4	22.1
77.5°	2.2	3.3	4.4	3.3	2.2	*2.2*	2.2	3.3	3.3	4.4	6.6
80°	1.1	1.1	2.2	1.1	0.0	*0.0*	0.0	0.0	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	1.1
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: P637476
CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1445.8	1433.7	1438.1	1440.3	1437.0	1434.8	1422.6	1419.3	1413.8	1405.0	1402.7
5°	1494.5	1484.5	1483.4	1476.8	1461.3	1442.5	1419.3	1409.4	1398.3	1387.3	1385.1
7.5°	1576.3	1564.1	1556.4	1534.3	1498.9	1469.1	1430.4	1409.4	1395.0	1380.6	1377.3
10°	1681.3	1666.9	1644.8	1603.9	1556.4	1513.3	1468.0	1440.3	1418.2	1398.3	1397.2
12.5°	1792.9	1777.5	1737.7	1685.7	1628.2	1588.4	1531.0	1492.3	1459.1	1429.3	1426.0
15°	1910.1	1891.3	1837.2	1775.3	1722.2	1681.3	1618.3	1556.4	1505.5	1462.4	1458.0
17.5°	1999.6	1976.4	1912.3	1865.9	1822.8	1780.8	1710.0	1628.2	1560.8	1508.9	1496.7
20°	2056.0	2033.9	1973.1	1947.7	1927.8	1898.0	1813.9	1728.8	1653.7	1589.6	1578.5
22.5°	2110.2	2083.7	2030.6	2030.6	2046.1	2033.9	1943.3	1846.0	1757.6	1683.5	1666.9
25°	2171.0	2150.0	2112.4	2143.4	2182.0	2180.9	2088.1	1966.5	1864.8	1781.9	1765.3
27.5°	2259.4	2238.4	2225.1	2283.7	2332.4	2329.1	2227.4	2095.8	1988.6	1906.8	1891.3
30°	2415.3	2395.4	2381.0	2451.8	2513.7	2490.4	2378.8	2251.7	2143.4	2050.5	2039.4
32.5°	2623.1	2602.1	2583.3	2654.0	2709.3	2679.5	2573.3	2454.0	2329.1	2238.4	2216.3
35°	2896.1	2851.9	2833.1	2917.1	2940.3	2907.2	2805.5	2700.5	2567.8	2463.9	2449.5
37.5°	3178.0	3126.0	3112.8	3185.7	3223.3	3211.2	3091.8	2982.3	2838.6	2723.7	2707.1
40°	3419.0	3371.4	3348.2	3462.1	3547.2	3554.9	3447.7	3314.0	3144.8	3025.5	2995.6
42.5°	3560.5	3519.6	3514.0	3690.9	3830.2	3929.7	3801.4	3663.3	3485.3	3350.4	3326.1
45°	3592.5	3566.0	3612.4	3844.5	4061.2	4242.5	4133.1	3987.1	3794.8	3652.2	3629.0
47.5°	3589.2	3580.4	3663.3	3924.1	4198.3	4421.6	4367.4	4202.7	4017.0	3867.8	3845.7
50°	*3541.7*	*3542.8*	*3680.9*	*3963.9*	*4253.5*	*4470.2*	*4416.0*	*4263.5*	*4097.7*	*3950.7*	*3933.0*
52.5°	3522.9	3516.2	3647.8	3951.8	4309.9	4448.1	4326.5	4155.2	3970.6	3789.3	3762.7
55°	3589.2	3572.6	3652.2	3941.8	4316.5	4435.9	4115.4	3744.0	3365.9	3151.5	3133.8
57.5°	3688.7	3671.0	3708.6	3868.9	3970.6	3688.7	3028.8	2429.6	2040.5	1875.8	1804.0
60°	3294.1	3281.9	3253.2	3059.7	2624.2	1979.8	1348.6	860.0	617.9	499.6	499.6
62.5°	2043.9	2027.3	1871.4	1390.6	1010.3	584.8	321.7	201.2	152.5	142.6	141.5
65°	573.7	570.4	472.0	333.8	212.2	131.5	116.1	118.3	116.1	112.7	111.6
67.5°	86.2	95.1	95.1	77.4	74.1	82.9	97.3	103.9	98.4	92.9	90.6
70°	55.3	59.7	57.5	49.7	53.1	61.9	69.6	70.7	67.4	61.9	60.8
72.5°	38.7	43.1	35.4	32.1	33.2	36.5	39.8	39.8	38.7	36.5	34.3
75°	23.2	23.2	16.6	15.5	15.5	16.6	16.6	18.8	18.8	17.7	16.6
77.5°	7.7	8.8	5.5	4.4	4.4	4.4	5.5	6.6	6.6	5.5	4.4
80°	1.1	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
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

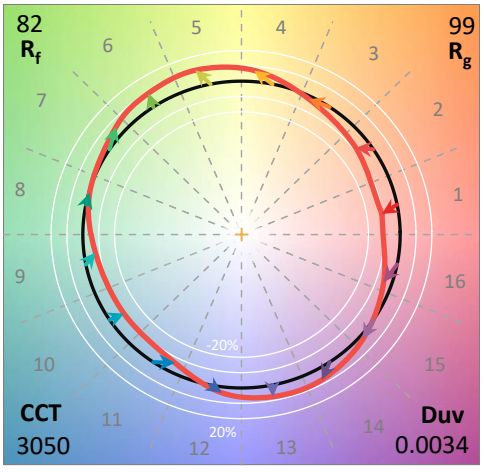
Test Information

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

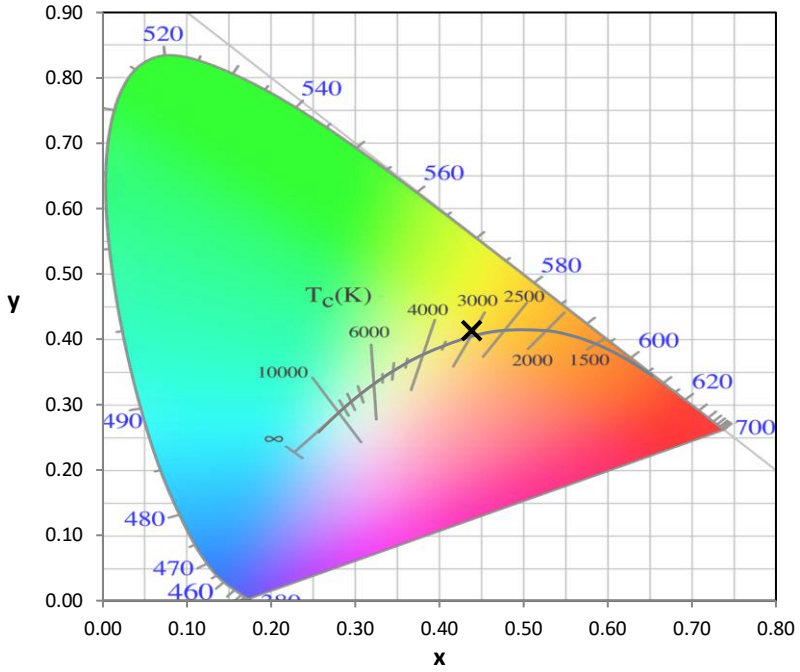
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

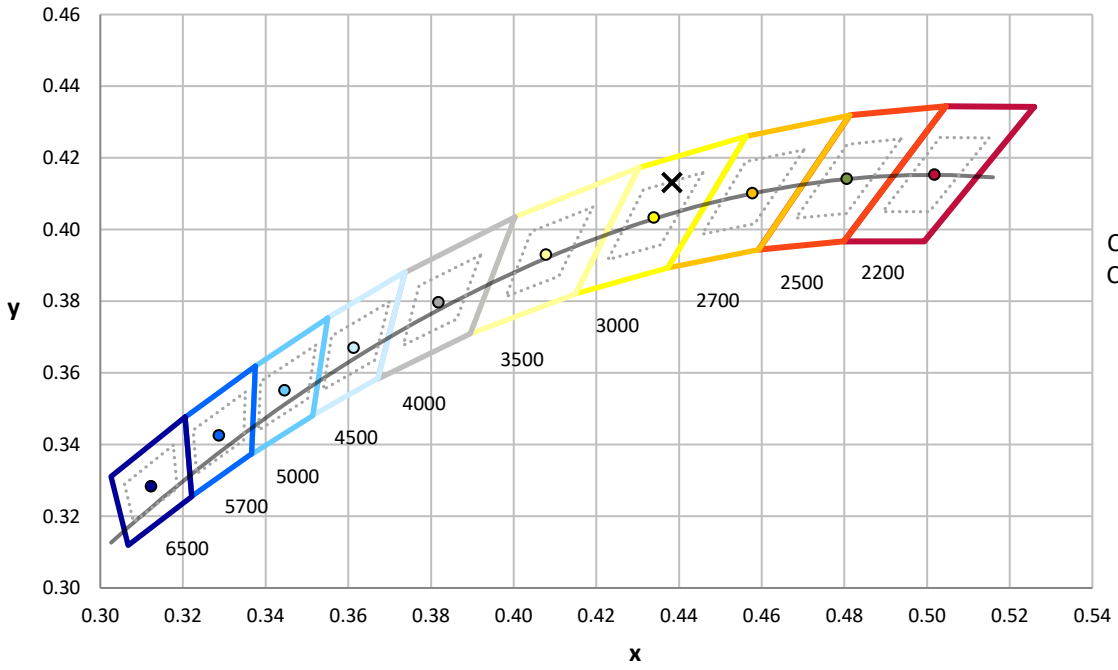
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

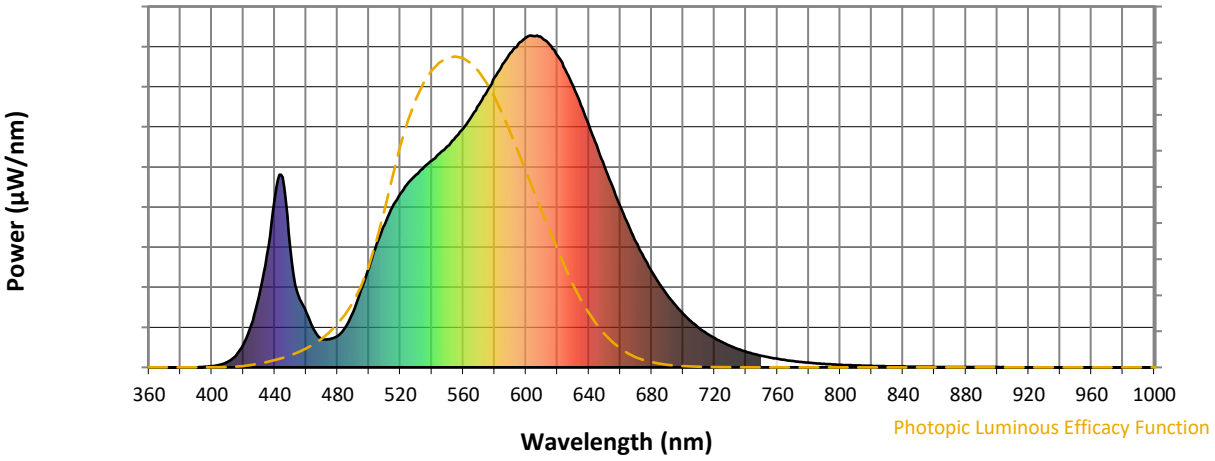


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

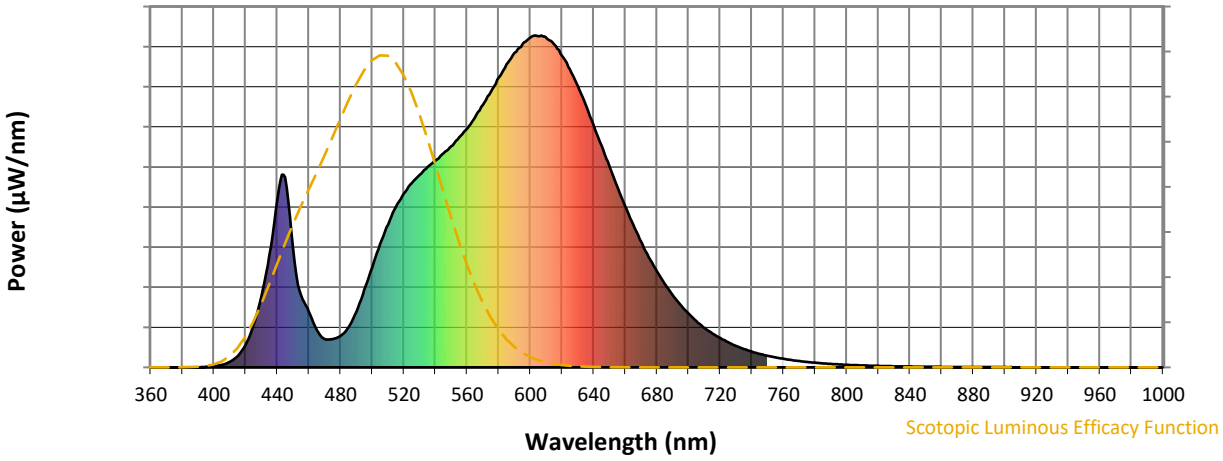


Photopic Lumens: NR

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

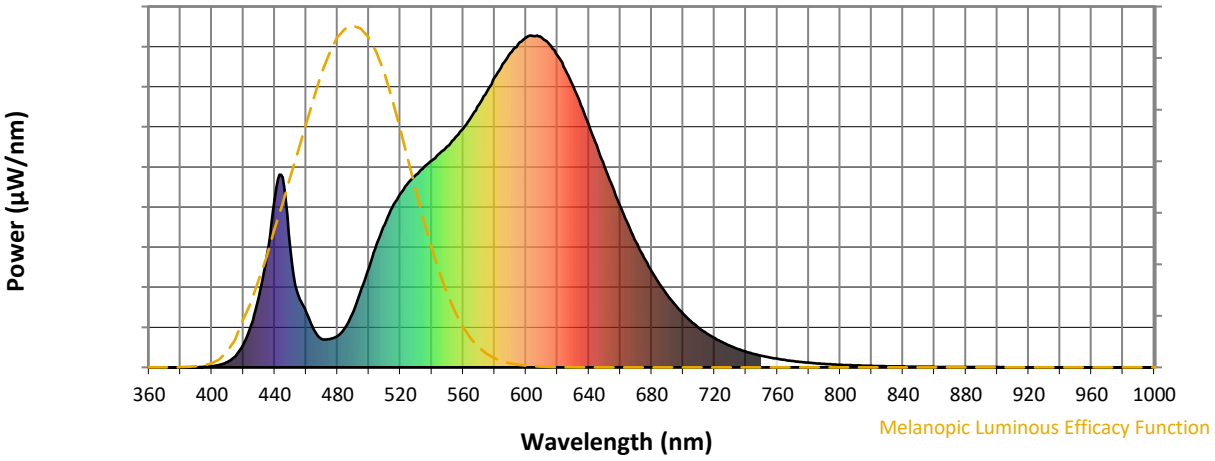


Scotopic Lumens: NR **S/P: 1.27**

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			

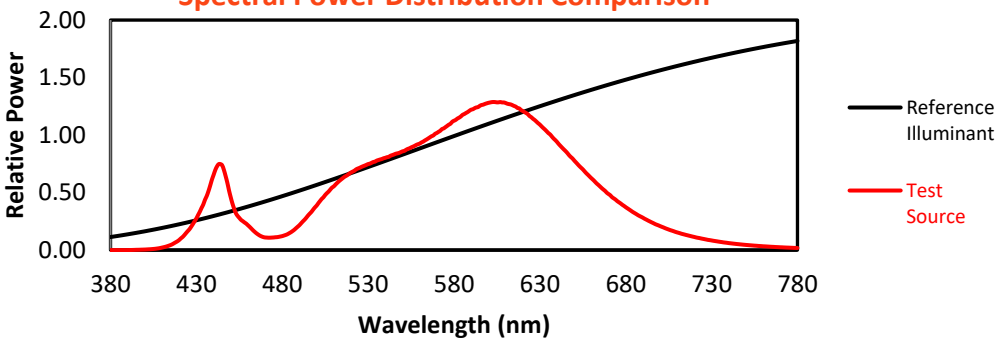
REPORT NUMBER: SP1-2408-195-9

TM-30-18

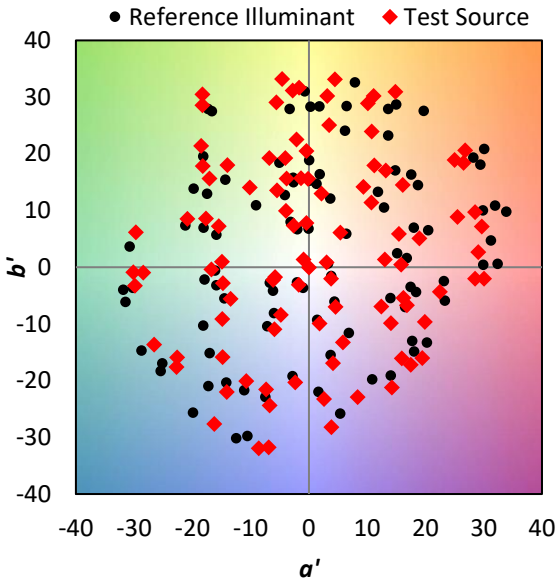
Summary

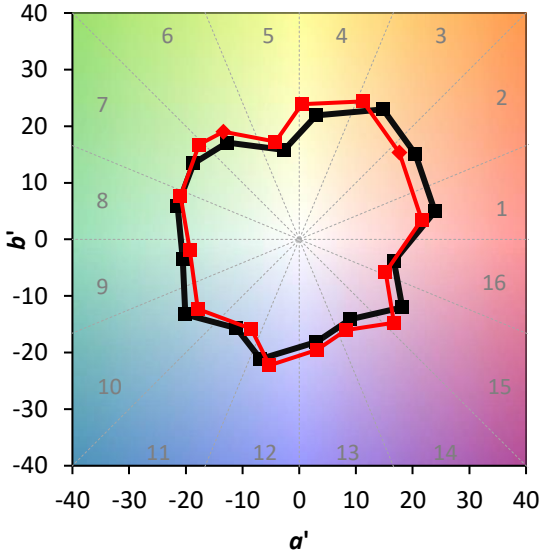
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

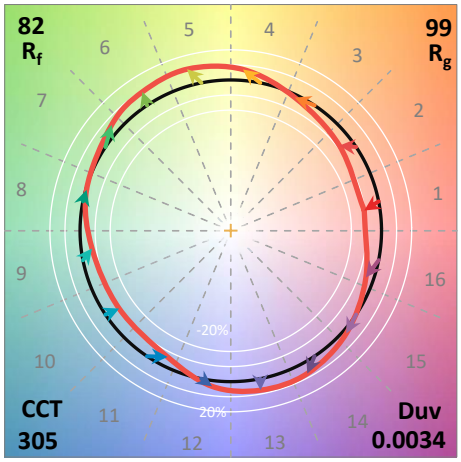
Spectral Power Distribution Comparison

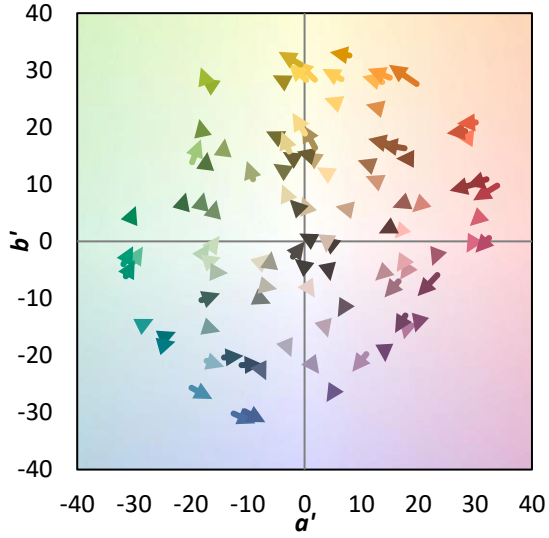


Color Vector Graphics







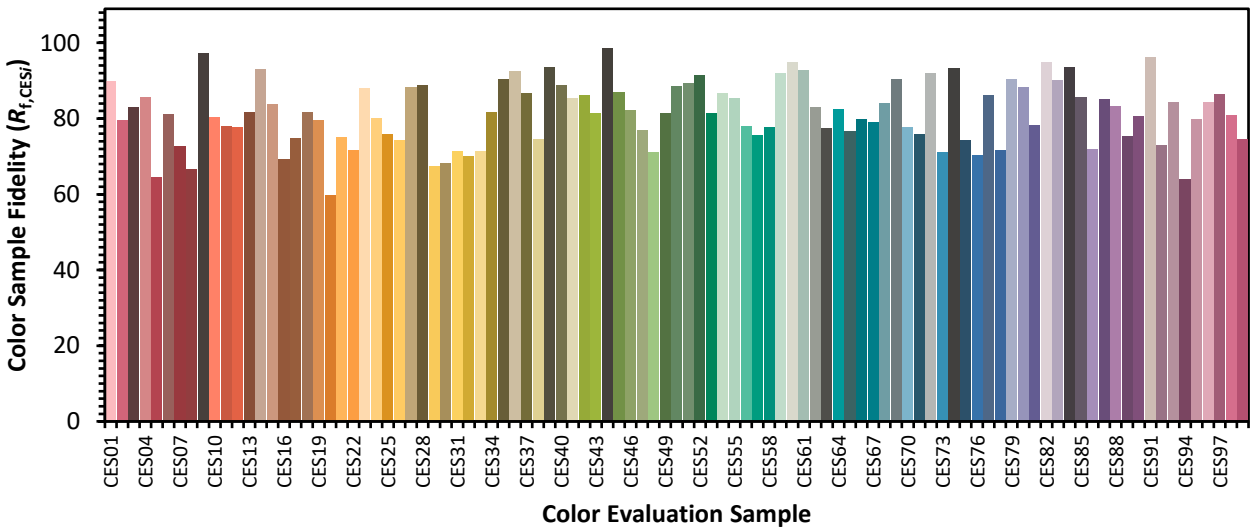


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

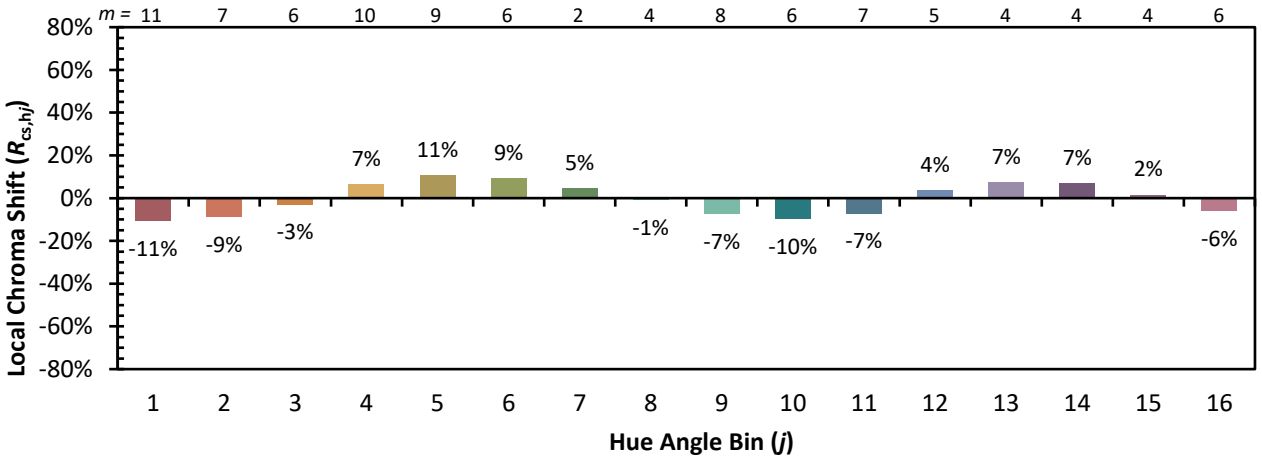
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

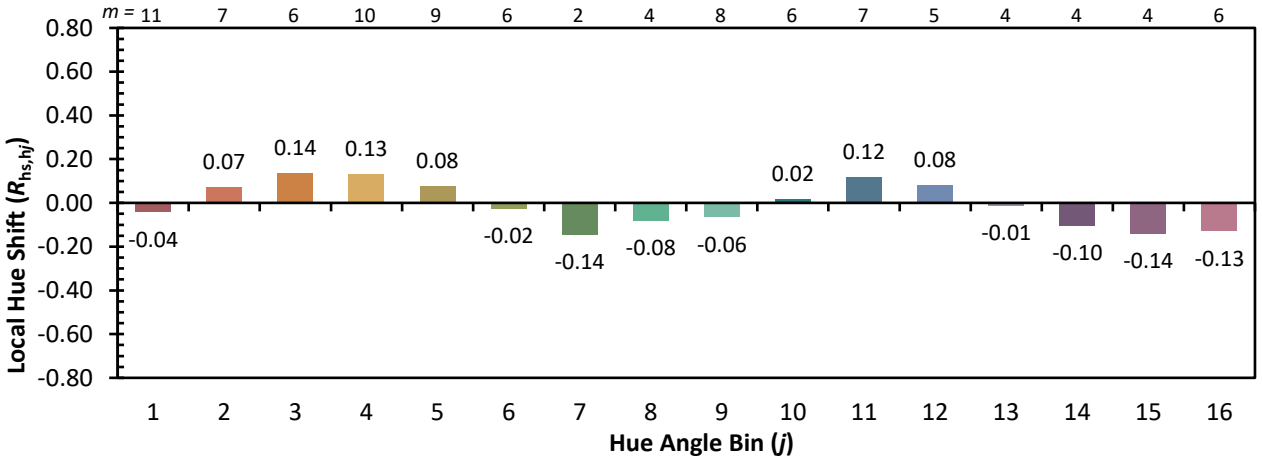


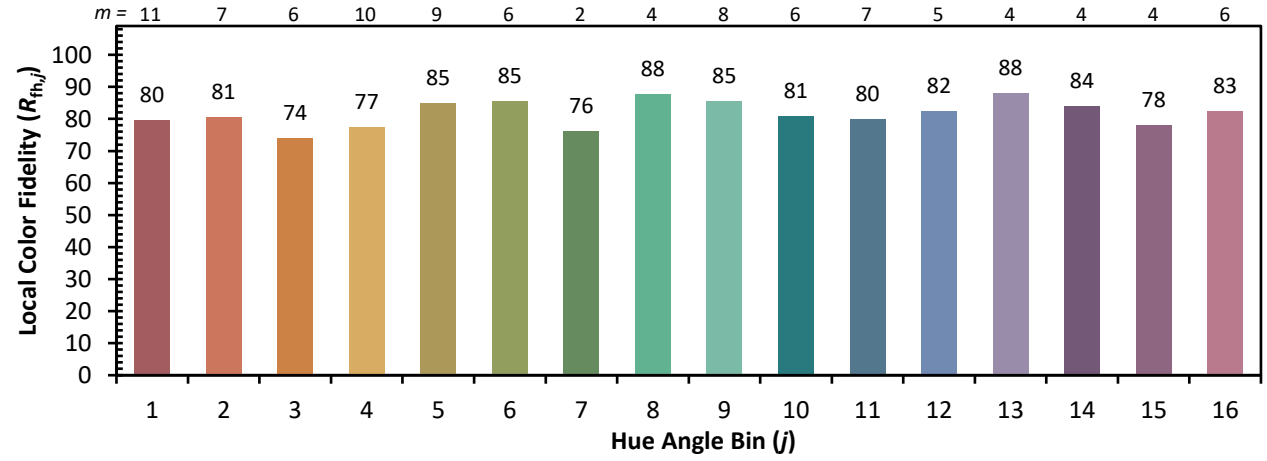
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



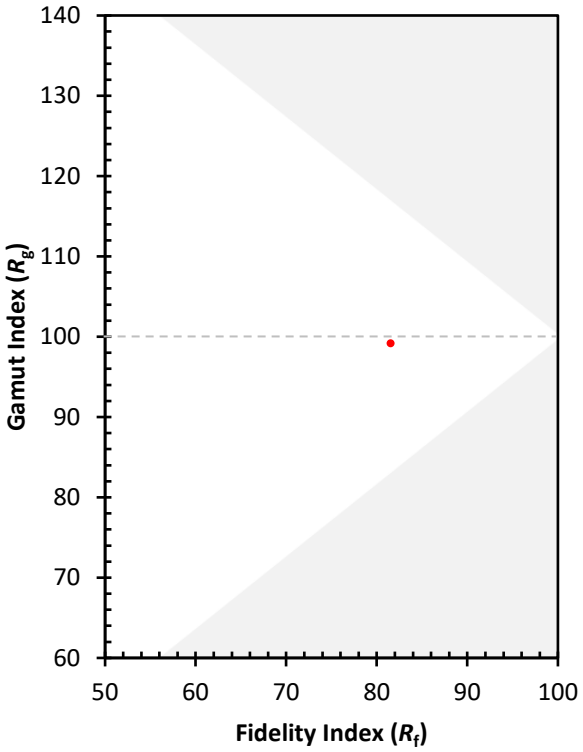


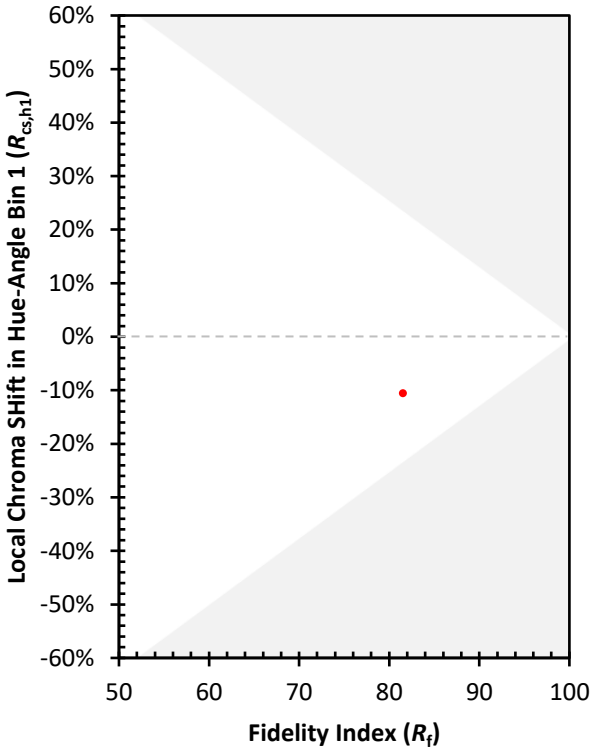


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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