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: P632556

Luminaire Tested: GWS-SA2C-830-U-T3-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:	P632556
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
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-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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:	4540.1 lumens
Efficiency:	N/A
Efficacy:	71.8 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):	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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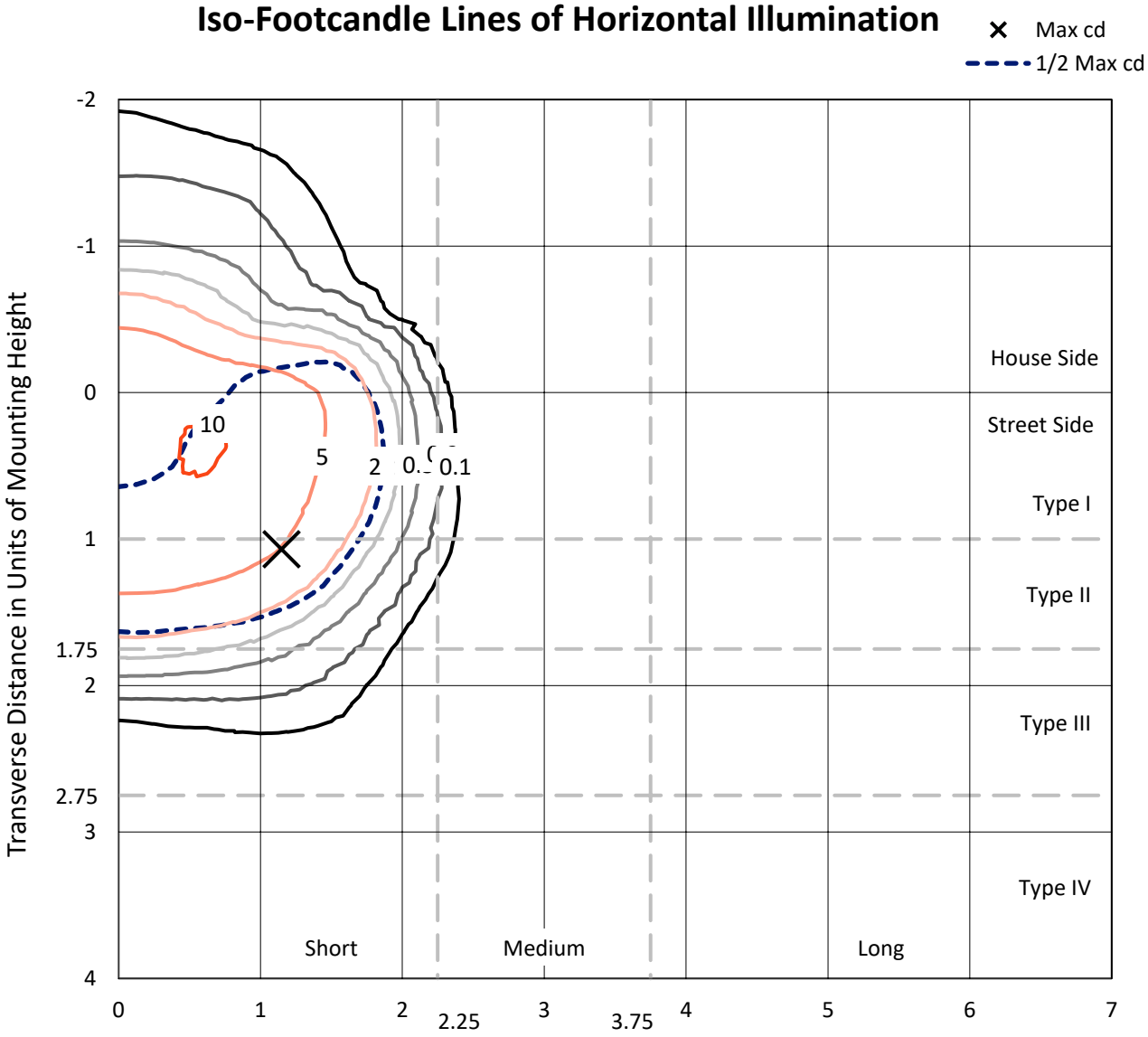
REPORT NUMBER: P632556
CATALOG NUMBER: GWS-SA2C-830-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
Type II - Short - N/A

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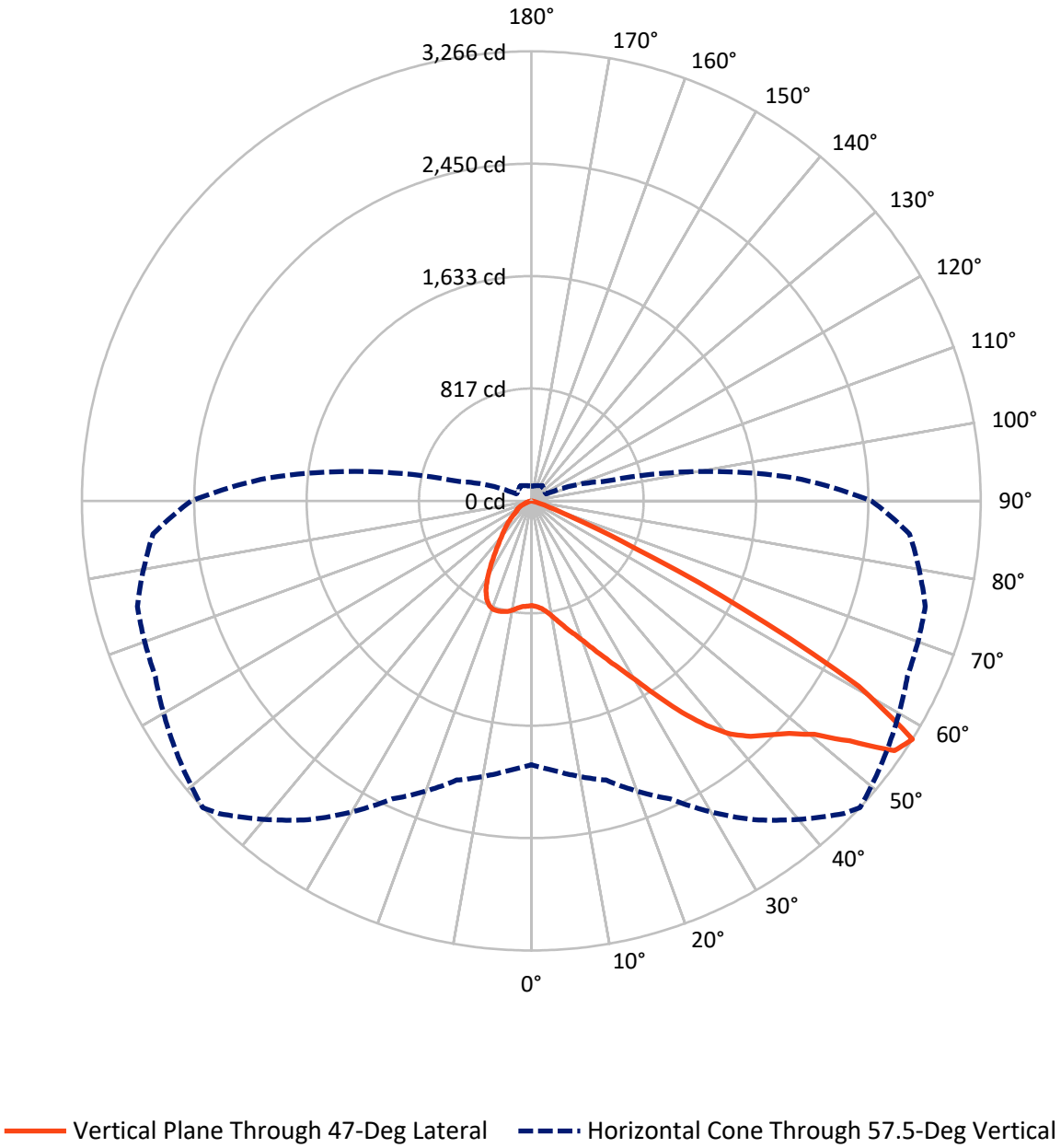
Luminous Intensity Polar Plot



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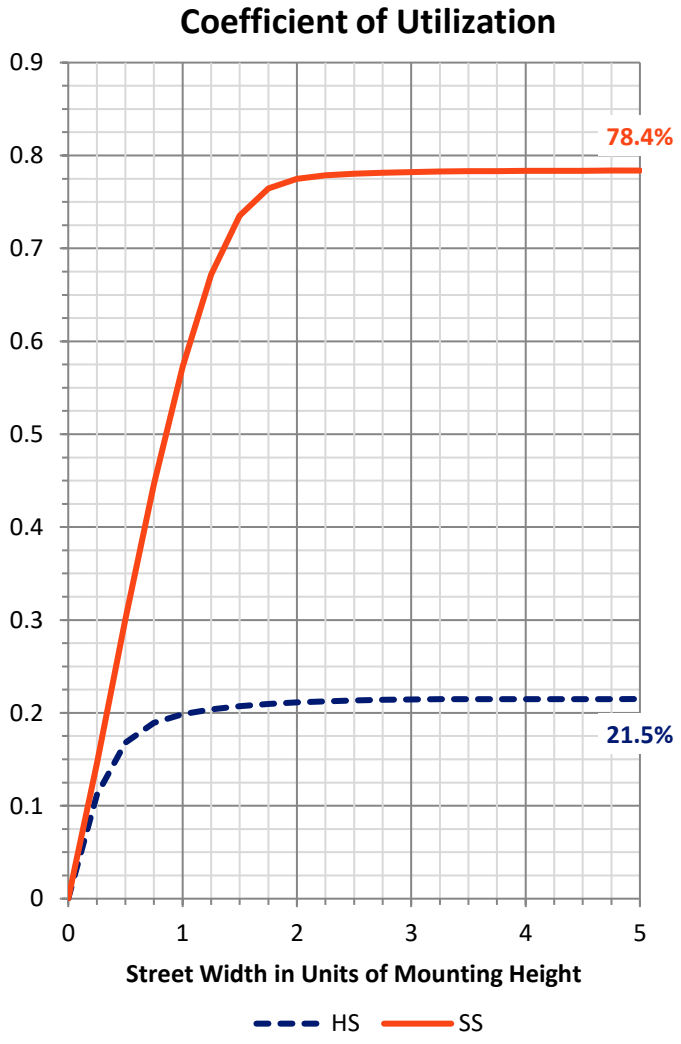
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.0	0.0	985.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3555.1	0.0	3555.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	4540.1	0.0	4540.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.7
10°-20°	255.1	5.6
20°-30°	473.7	10.4
30°-40°	758.3	16.7
40°-50°	1108.5	24.4
50°-60°	1368.1	30.1
60°-70°	457.1	10.1
70°-80°	42.6	0.9
80°-90°	0.9	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°	4540.1	100.0
0°-180°	4540.1	100.0



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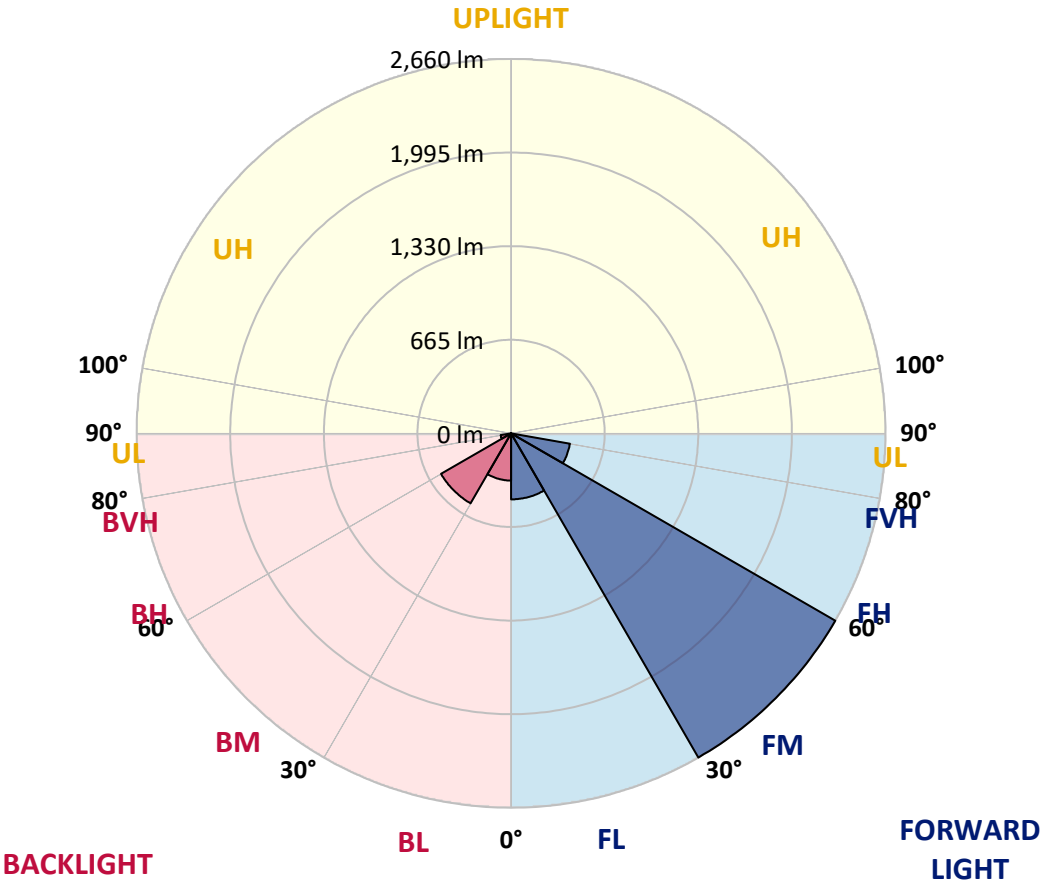
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	469.2	10.3			
FM	(30°-60°)	2660.5	58.6			
FH	(60°-80°)	424.9	9.4			G0/660
FVH	(80°-90°)	0.6	0.0			G0/10
BL	(0°-30°)	335.3	7.4	B1/500		
BM	(30°-60°)	574.5	12.7	B1/1000		
BH	(60°-80°)	74.9	1.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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: P632556
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	760.0	760.0	760.0	760.0	760.0	760.0	*760.0*	760.0	760.0	760.0	760.0
2.5°	767.9	767.4	766.9	770.0	769.0	768.5	*769.5*	769.5	769.5	766.3	760.0
5°	786.4	786.4	785.8	789.0	786.4	784.8	*785.3*	785.3	783.2	777.4	769.5
7.5°	815.4	814.3	813.3	816.4	813.8	813.3	*814.3*	811.1	807.5	798.0	786.9
10°	857.0	857.0	855.4	858.6	856.5	855.4	*855.4*	853.3	846.5	831.7	815.4
12.5°	914.4	911.8	908.1	905.5	904.4	903.9	*904.4*	901.3	893.9	874.9	852.3
15°	977.2	975.1	969.3	965.0	959.2	958.2	*961.4*	958.7	951.3	925.5	893.4
17.5°	1056.2	1058.9	1044.1	1035.1	1018.3	1017.2	*1018.3*	1022.5	1017.2	984.0	937.1
20°	1123.7	1125.8	1114.7	1108.4	1093.1	1086.3	*1088.4*	1095.2	1089.4	1050.4	985.1
22.5°	1195.9	1198.5	1186.9	1173.8	1166.9	1166.9	*1174.8*	1184.3	1176.4	1125.3	1039.9
25°	1282.3	1284.4	1275.0	1257.6	1245.4	1260.7	*1272.3*	1297.6	1284.4	1214.9	1104.7
27.5°	1381.4	1381.9	1368.2	1350.3	1344.0	1372.5	*1384.1*	1423.1	1417.8	1315.5	1173.2
30°	1487.4	1487.9	1484.7	1472.6	1466.8	1504.2	*1520.0*	1576.4	1572.7	1440.4	1266.5
32.5°	1597.5	1597.5	1603.3	1602.3	1609.1	1670.2	*1695.5*	1759.8	1756.2	1593.3	1382.5
35°	1708.2	1708.7	1718.7	1744.0	1772.5	1853.7	*1886.9*	1964.9	1956.4	1776.2	1530.6
37.5°	1834.2	1828.9	1842.6	1880.5	1943.8	2037.6	*2069.2*	2143.5	2134.1	1963.3	1724.0
40°	1986.0	1976.5	1976.5	2020.7	2092.4	2200.5	*2227.3*	2264.2	2232.1	2114.6	1913.7
42.5°	2153.6	2144.6	2133.0	2172.0	2232.1	2316.4	*2338.6*	2328.5	2302.2	2257.4	2129.8
45°	2323.3	2309.6	2317.5	2341.2	2376.0	2416.0	*2424.5*	2378.1	2366.0	2378.6	2308.5
47.5°	2452.4	2442.9	2462.4	2495.6	2524.1	2529.9	*2524.1*	2459.8	2458.7	2503.5	2432.4
50°	2495.6	2496.7	2550.4	2623.2	2669.0	2673.8	*2665.9*	2592.1	2582.1	2595.2	2499.3
52.5°	2499.8	2504.1	2582.6	2721.2	2846.1	2903.0	*2896.7*	2817.1	2719.1	2704.9	2600.5
55°	2398.1	2422.9	2532.5	2734.9	3000.5	3182.4	*3203.5*	3051.1	2905.7	2893.5	2818.2
57.5°	*1916.9*	*1967.5*	*2099.8*	*2388.1*	*2828.2*	*3211.4*	*3266.2*	*3156.6*	*3015.8*	*2964.2*	*2759.7*
60°	1145.8	1208.5	1335.6	1689.2	2152.5	2639.5	*2733.8*	2749.1	2684.3	2535.1	2117.2
62.5°	491.7	486.5	643.0	913.9	1280.2	1677.6	*1720.3*	1786.7	1843.1	1687.1	1285.0
65°	168.7	183.4	255.1	412.2	640.9	779.0	*816.9*	876.5	956.6	789.5	470.7
67.5°	104.4	110.7	147.0	243.5	345.8	340.5	*323.6*	314.1	305.7	209.2	129.1
70°	75.9	81.2	103.3	167.6	232.4	163.4	*141.8*	114.9	127.5	117.5	91.7
72.5°	51.1	55.3	71.2	101.7	119.1	79.6	*73.8*	83.8	101.2	96.5	74.8
75°	30.6	33.2	40.6	49.5	48.5	41.1	*41.6*	59.0	77.5	72.2	53.2
77.5°	21.1	22.1	26.9	32.2	23.7	12.6	*11.6*	16.3	26.4	26.4	17.9
80°	5.3	6.9	6.9	4.2	3.7	3.2	*3.2*	4.7	7.4	5.3	2.6
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	*0.5*	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.5	0.5	0.5	0.5	*0.5*	0.5	1.1	1.1	1.1
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	*0.5*	0.5	0.5	1.1	1.1
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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CATALOG NUMBER: GWS-SA2C-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0
2.5°	763.7	757.4	761.6	760.5	763.7	764.8	760.0	759.0	759.5	753.2	751.1
5°	771.1	763.7	765.8	763.7	767.4	770.6	769.0	771.1	773.7	769.0	766.9
7.5°	786.9	779.5	779.0	775.8	781.1	783.2	782.7	788.5	793.7	790.6	787.4
10°	814.3	804.3	803.2	800.6	802.2	803.8	798.0	799.0	803.8	800.1	798.5
12.5°	848.0	835.9	833.3	827.0	827.0	819.0	806.4	803.8	807.5	804.8	802.2
15°	884.4	868.1	863.8	852.8	842.2	827.5	814.3	811.1	813.8	810.6	808.5
17.5°	925.0	906.5	892.8	873.3	850.1	832.8	818.0	811.1	806.9	800.6	800.1
20°	965.0	940.8	917.6	886.5	855.9	829.6	805.3	787.4	772.1	762.7	759.0
22.5°	1011.4	975.6	938.2	894.4	850.7	810.6	767.9	737.4	711.0	702.0	697.8
25°	1061.0	1014.6	958.7	901.8	832.8	768.5	710.5	665.1	630.4	618.8	614.0
27.5°	1115.8	1052.0	979.8	900.2	795.9	708.4	631.4	575.0	540.8	530.2	533.9
30°	1185.4	1100.5	1006.2	883.9	740.5	624.0	533.9	486.5	460.6	450.6	451.2
32.5°	1278.1	1170.1	1044.6	849.1	669.4	528.1	449.1	414.3	396.9	383.7	382.6
35°	1410.9	1276.0	1080.5	793.2	582.9	442.7	385.3	357.9	333.6	318.3	321.0
37.5°	1570.1	1409.4	1100.0	717.9	485.9	376.3	337.3	309.4	282.0	259.3	261.9
40°	1758.8	1583.8	1098.4	618.8	397.4	331.0	297.3	264.6	230.3	209.8	211.9
42.5°	1969.1	1748.8	1064.1	513.9	329.4	294.1	258.8	217.7	184.5	171.8	172.3
45°	2151.5	1882.7	1004.0	405.3	277.2	258.3	218.7	176.6	161.8	152.8	152.3
47.5°	2286.4	1980.7	918.1	318.9	235.1	225.6	179.7	158.1	146.5	139.1	138.1
50°	2361.7	2014.9	823.3	249.8	198.7	191.3	160.8	143.4	135.5	130.7	129.7
52.5°	2462.9	2056.1	755.3	197.1	166.6	156.5	148.1	133.3	128.1	124.4	122.8
55°	2623.2	2135.6	696.2	156.5	138.6	136.5	139.7	127.5	124.4	118.6	116.5
57.5°	*2472.4*	*1918.5*	*540.8*	*121.2*	*117.0*	*124.9*	*134.9*	*121.8*	*113.8*	*108.6*	*106.5*
60°	1739.8	1275.5	272.0	97.5	104.4	117.0	127.0	110.2	102.2	103.3	102.2
62.5°	959.2	638.3	122.3	81.7	90.7	103.3	108.6	95.4	90.1	99.1	100.7
65°	313.6	217.1	70.6	63.2	71.7	84.3	93.8	90.7	89.6	100.1	103.3
67.5°	96.5	71.7	48.0	45.3	49.5	62.2	79.1	98.0	105.4	108.6	110.2
70°	72.2	56.4	41.1	38.5	40.6	47.4	66.9	81.7	77.0	77.5	76.4
72.5°	58.0	44.8	35.3	33.7	33.7	32.7	35.3	44.3	50.1	52.7	52.7
75°	40.6	31.6	26.9	24.8	19.5	15.8	14.2	14.2	12.6	12.1	11.6
77.5°	13.7	11.6	10.5	8.4	5.8	4.7	4.2	3.7	2.6	1.6	1.1
80°	2.1	1.6	1.1	1.1	1.1	0.5	0.5	0.5	0.0	0.0	0.0
82.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	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

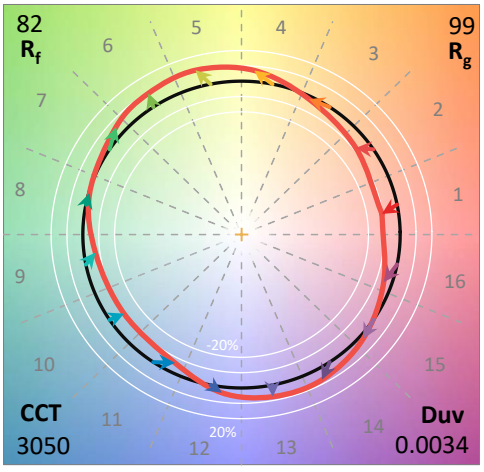
Test Information

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

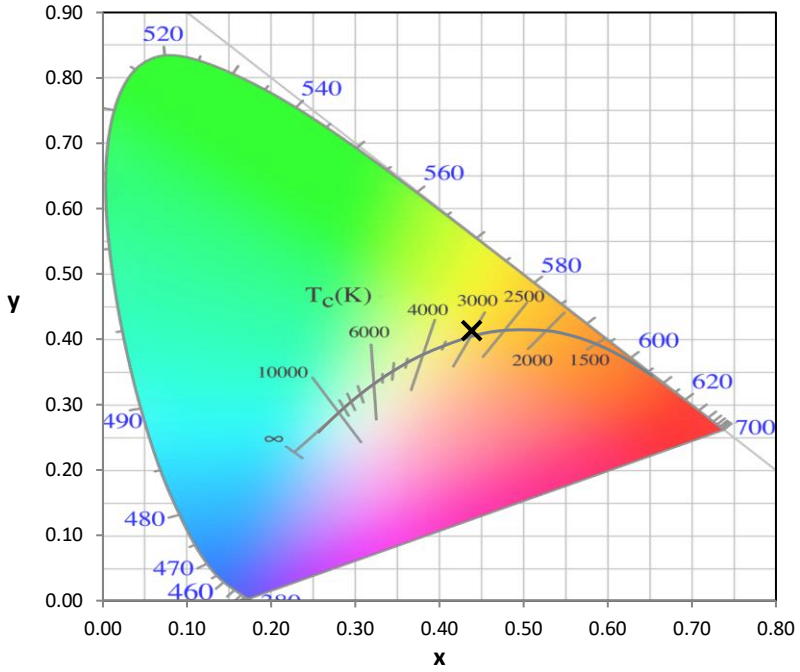
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

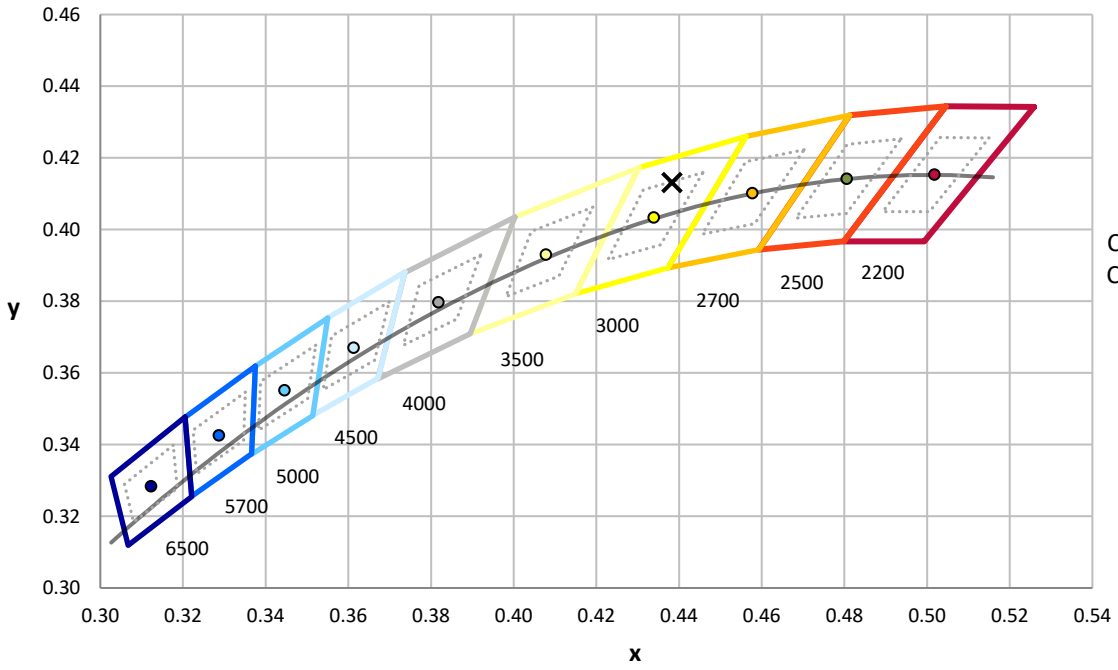
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

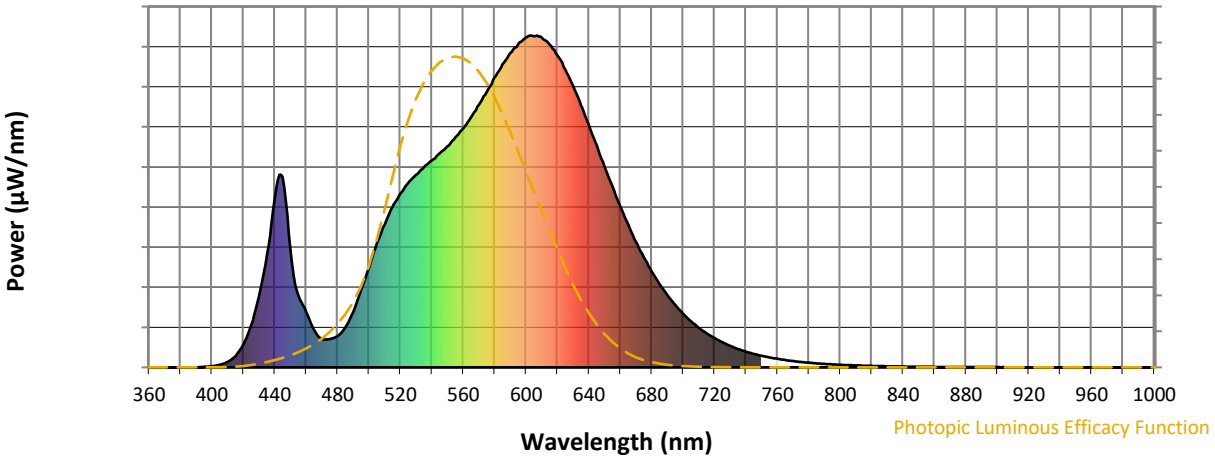


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

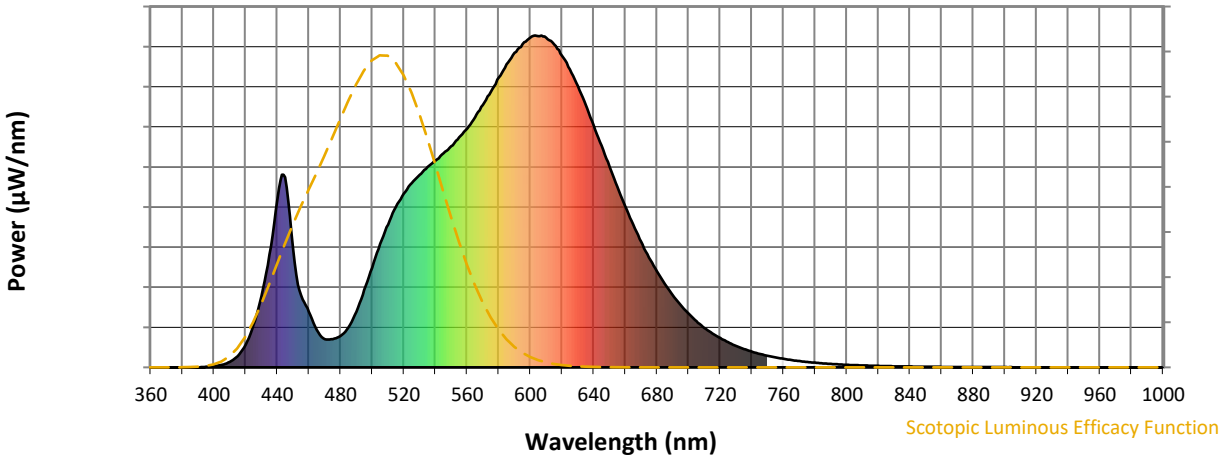


Photopic Lumens: NR

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

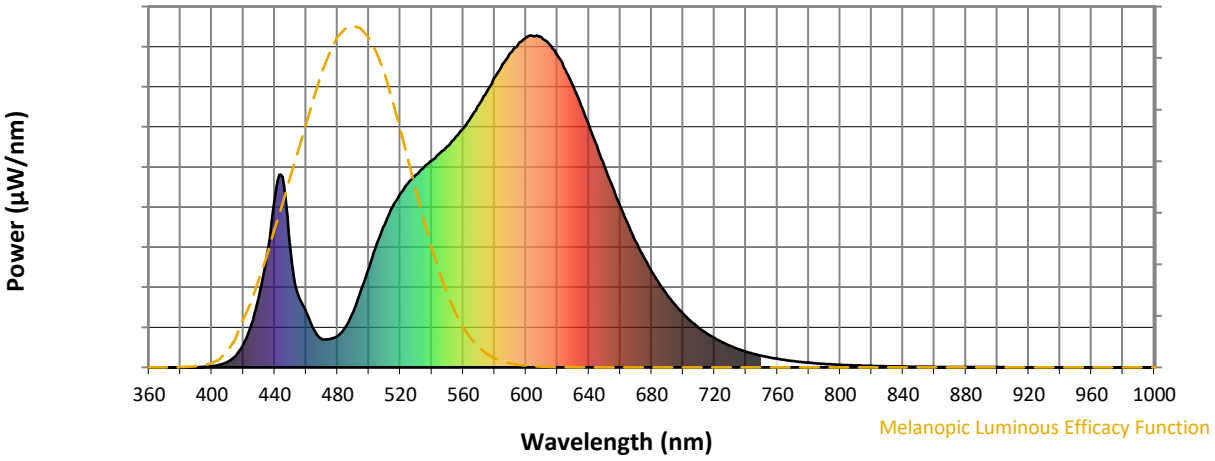


Scotopic Lumens: NR **S/P: 1.27**

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			

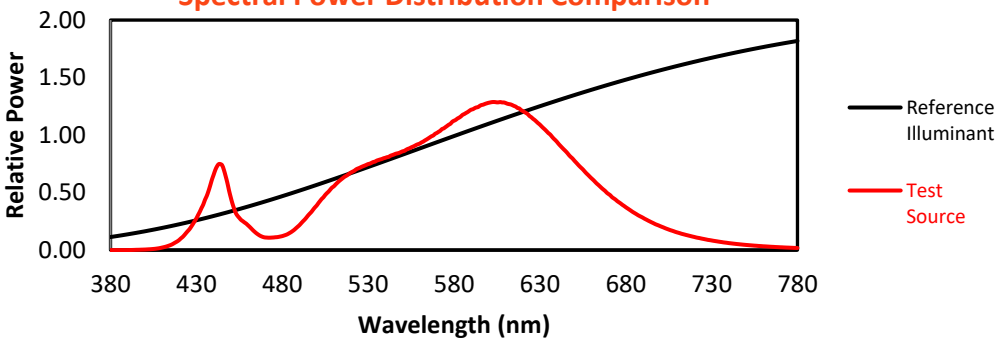
REPORT NUMBER: SP1-2408-195-9

TM-30-18

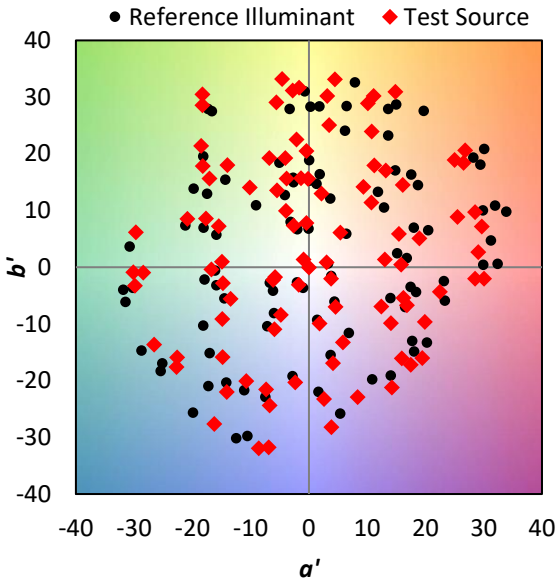
Summary

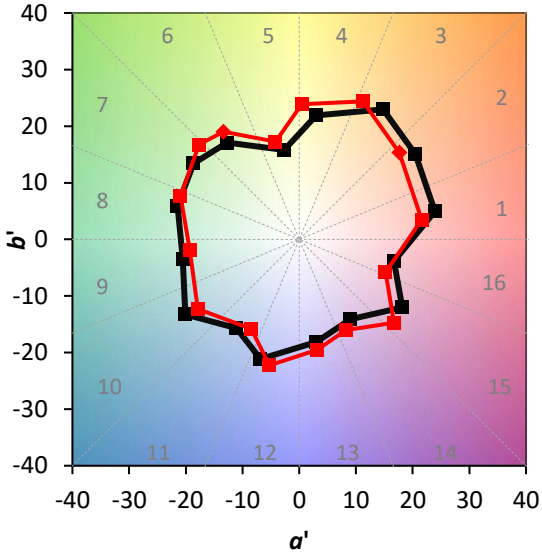
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

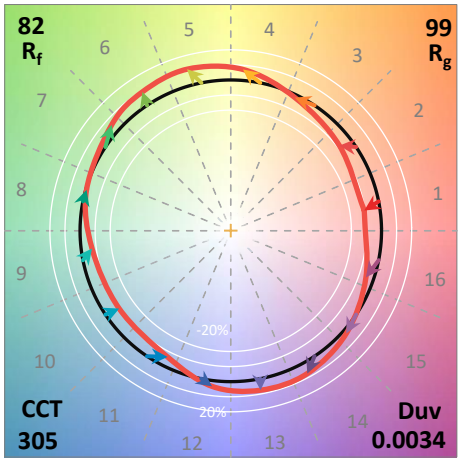
Spectral Power Distribution Comparison

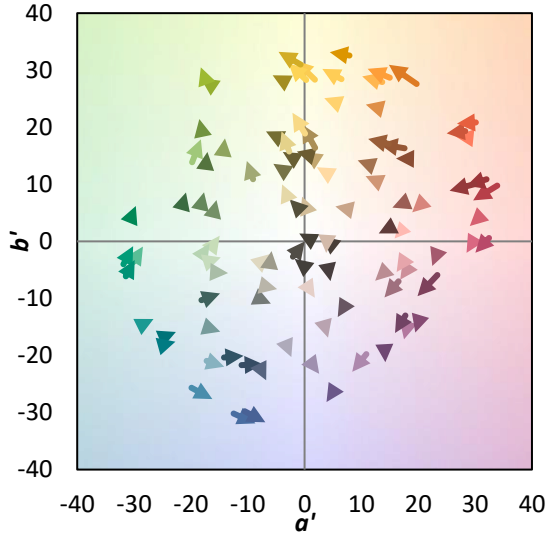


Color Vector Graphics







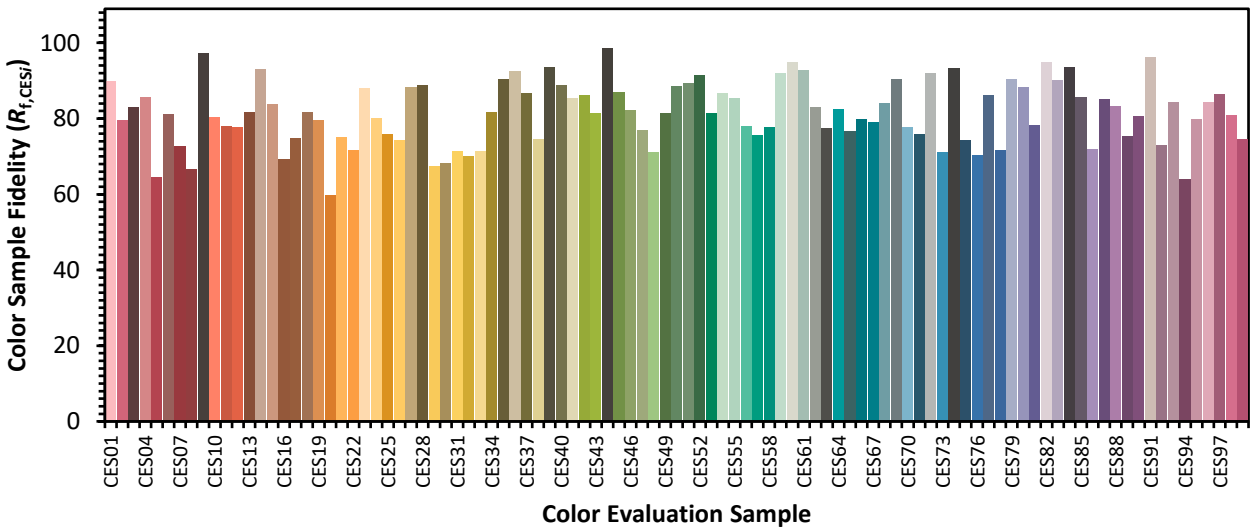


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

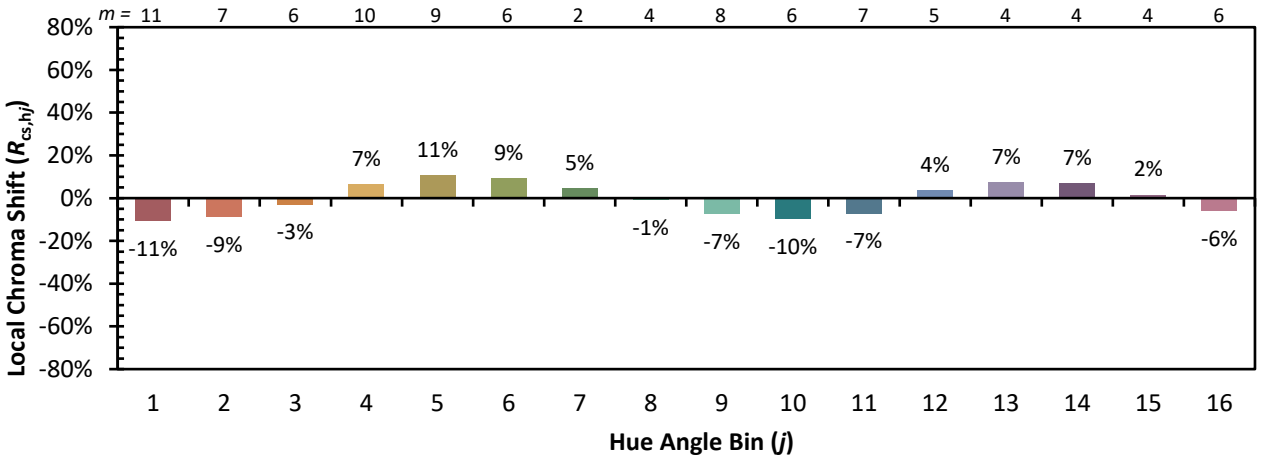
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

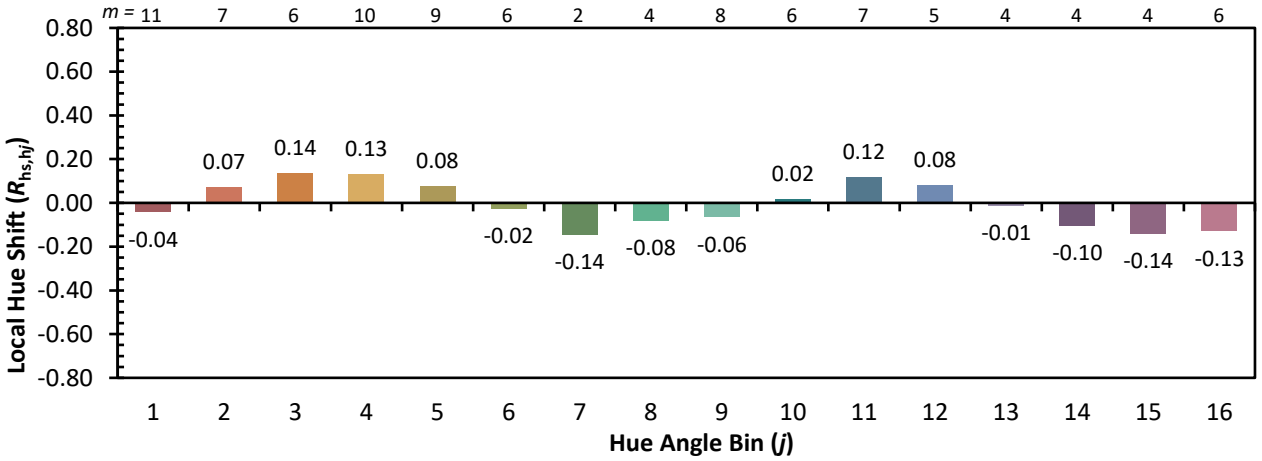


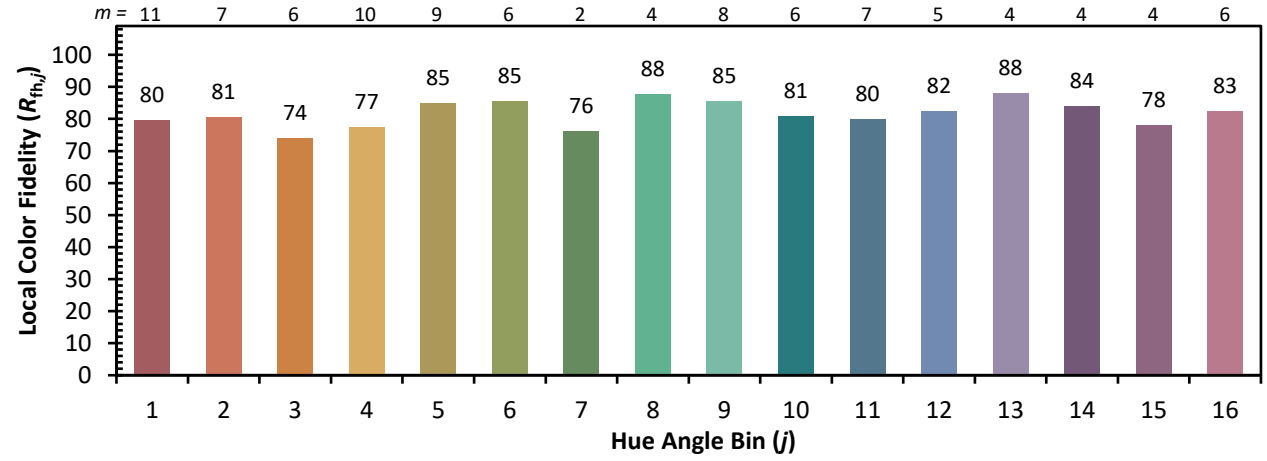
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



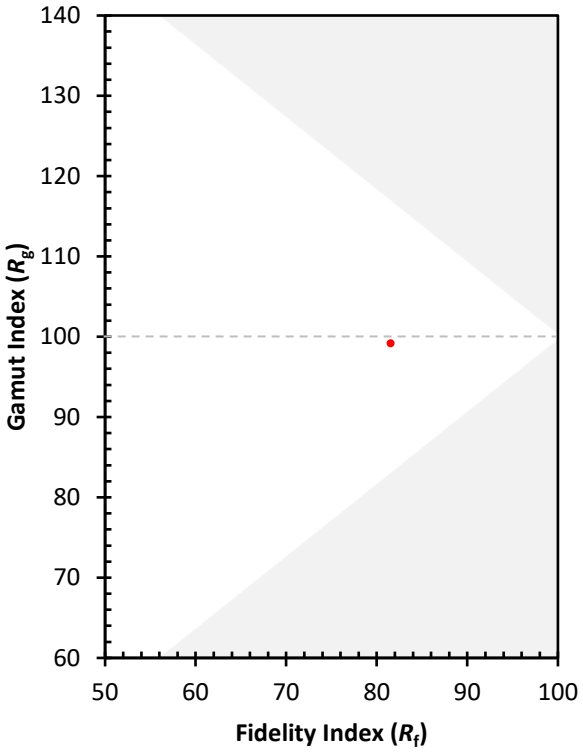


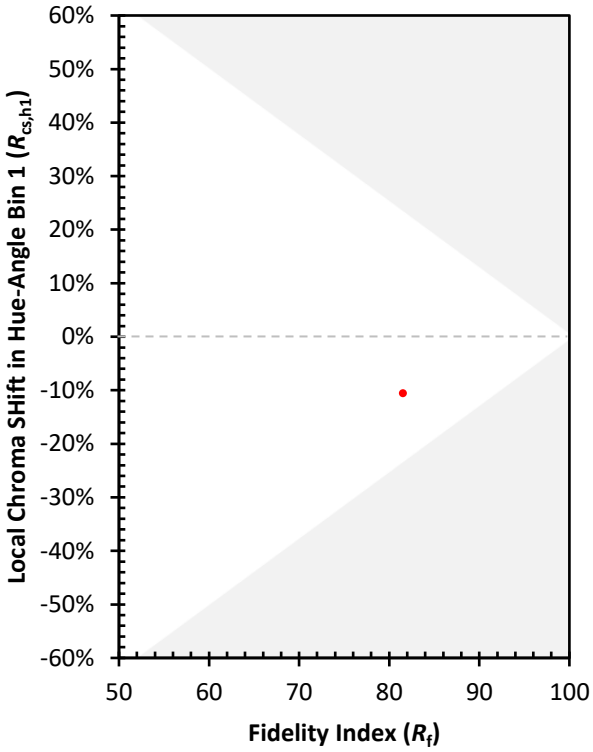


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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