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: P633541

Luminaire Tested: GWS-SA2E-830-U-T2-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:	P633541
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2E-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11500 lumens
Efficiency:	N/A
Efficacy:	106.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	108.2
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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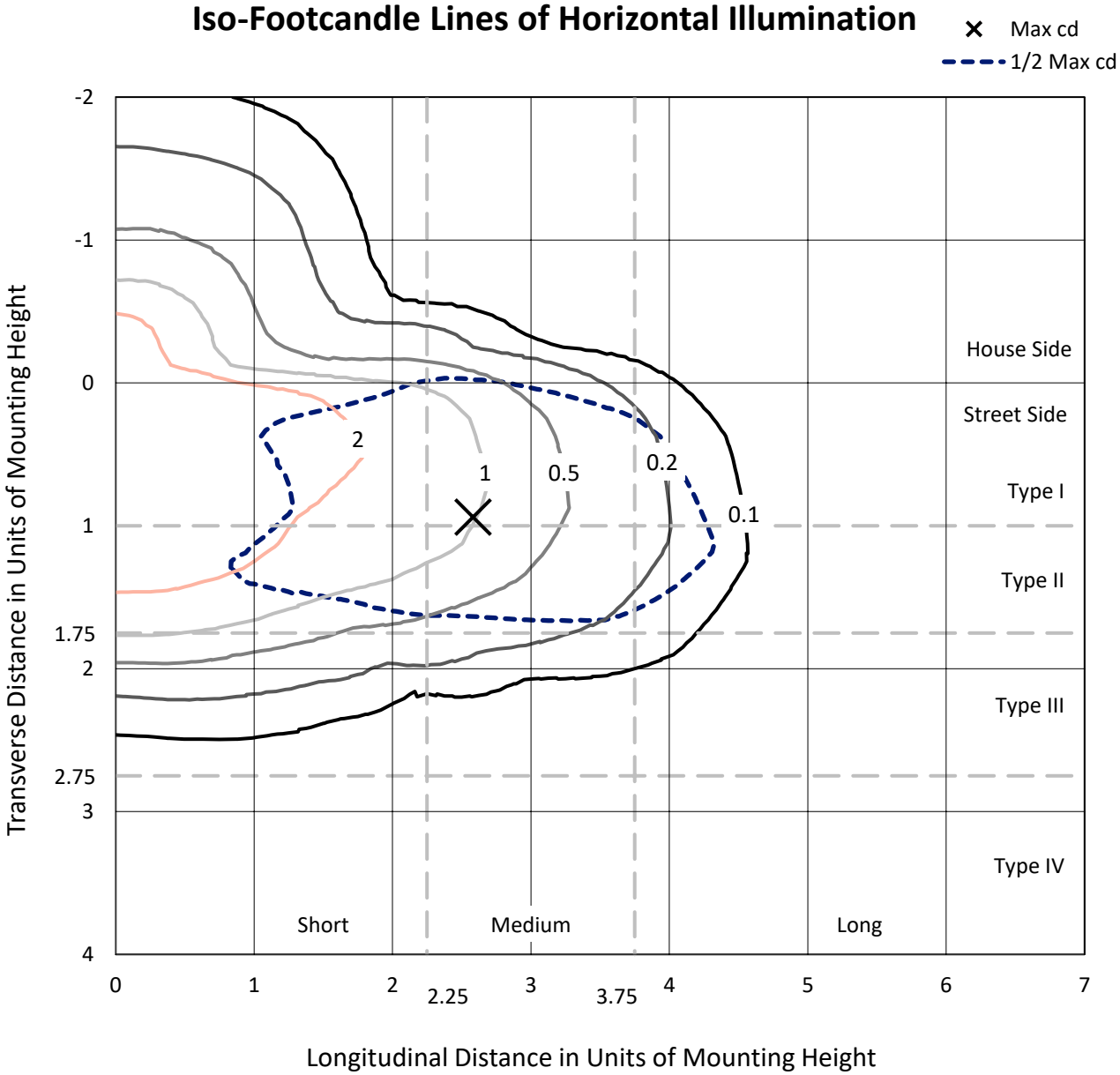
Scaled Data Report

REPORT NUMBER: P633541
CATALOG NUMBER: GWS-SA2E-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Medium - N/A

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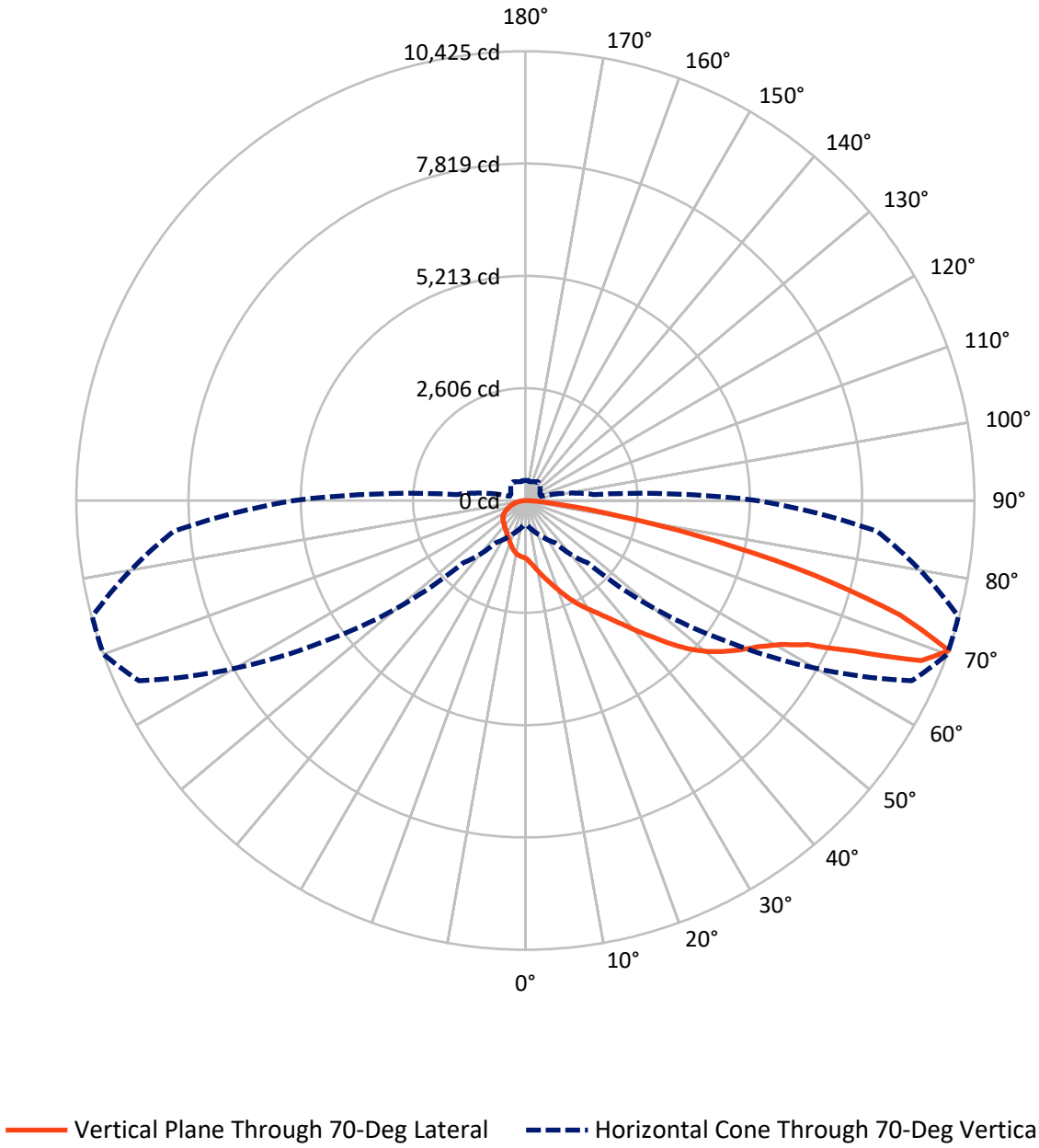
REPORT NUMBER: P633541
CATALOG NUMBER: GWS-SA2E-830-U-T2-W

Luminous Intensity Polar Plot



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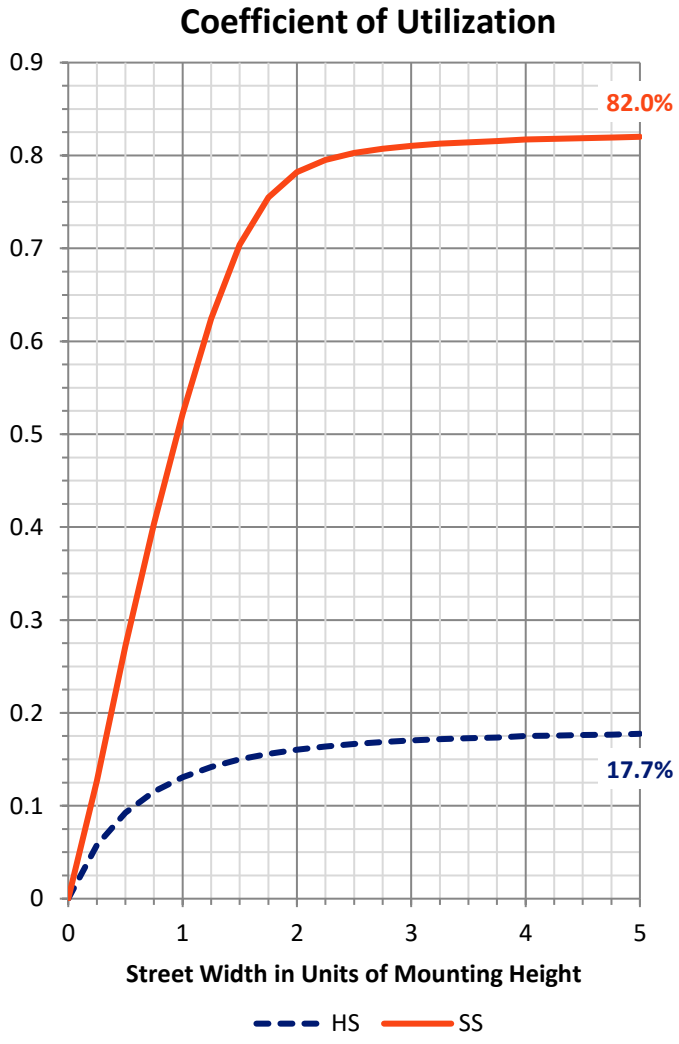
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.8	0.0	2060.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	9439.2	0.0	9439.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	11500.0	0.0	11500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.2
10°-20°	443.4	3.9
20°-30°	785.5	6.8
30°-40°	1182.3	10.3
40°-50°	1788.6	15.6
50°-60°	2562.3	22.3
60°-70°	2832.3	24.6
70°-80°	1598.3	13.9
80°-90°	171.0	1.5
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°	11500.0	100.0
0°-180°	11500.0	100.0



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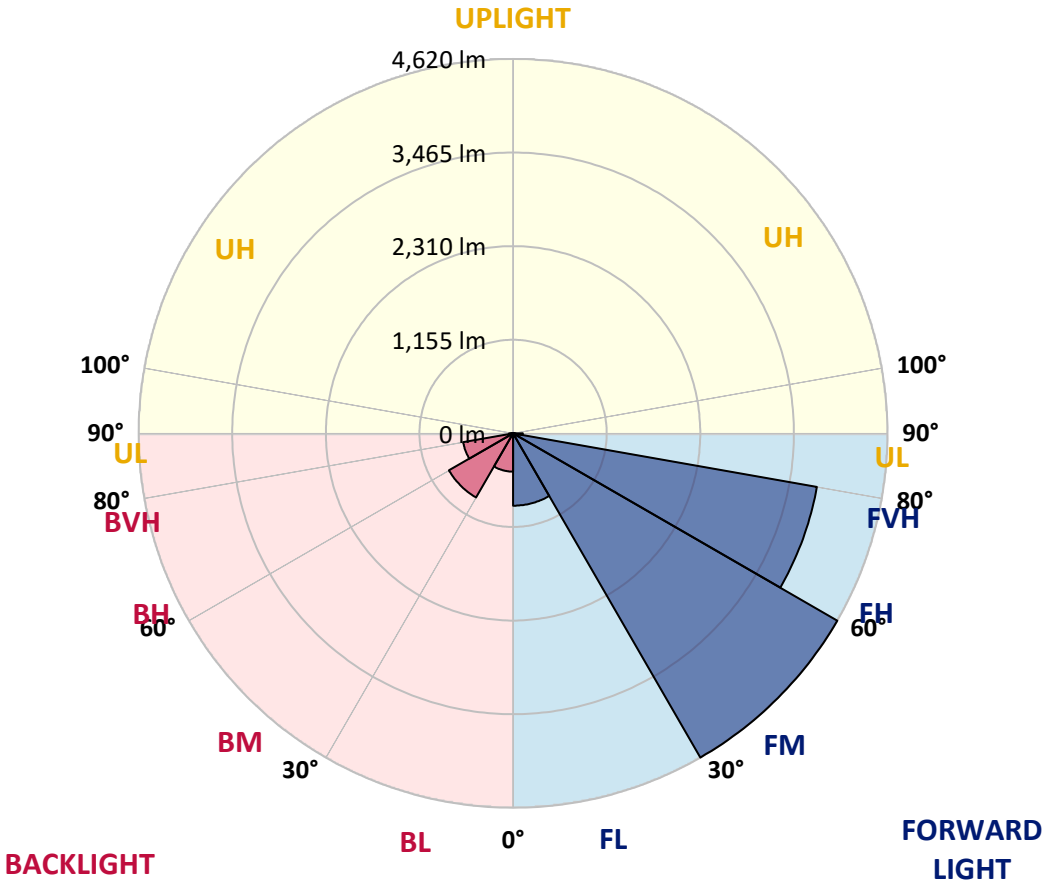
REPORT NUMBER: P633541
CATALOG NUMBER: GWS-SA2E-830-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	892.7	7.8			
FM	(30°-60°)	4619.5	40.2			
FH	(60°-80°)	3806.0	33.1			G2/5000
FVH	(80°-90°)	120.9	1.1			G2/225
BL	(0°-30°)	472.5	4.1	B1/500		
BM	(30°-60°)	913.6	7.9	B1/1000		
BH	(60°-80°)	624.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	50.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Medium



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Scaled Data Report

REPORT NUMBER: P633541
CATALOG NUMBER: GWS-SA2E-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	*1341.1*	1341.1	1341.1
2.5°	1485.7	1483.2	1484.9	1483.2	1474.1	1451.7	1433.4	1410.1	*1394.3*	1385.2	1363.6
5°	1660.2	1657.7	1651.9	1643.6	1627.0	1596.2	1550.5	1499.8	*1469.1*	1445.8	1400.1
7.5°	1785.7	1785.7	1784.9	1774.9	1763.3	1730.8	1676.8	1610.4	*1565.5*	1525.6	1450.8
10°	1849.7	1853.8	1859.6	1873.8	1871.3	1853.8	1803.1	1731.7	*1675.2*	1628.6	1517.3
12.5°	1884.6	1887.1	1897.0	1926.1	1956.0	1960.2	1930.3	1855.5	*1794.0*	1731.7	1591.3
15°	1929.4	1930.3	1943.6	1978.5	2022.5	2066.5	2059.1	1984.3	*1921.1*	1852.2	1673.5
17.5°	1964.3	1970.2	1994.3	2035.0	2089.8	2150.5	2187.0	2140.5	*2062.4*	1983.5	1763.3
20°	1976.8	1981.0	2012.5	2074.9	2149.6	2235.2	2316.7	2304.2	*2225.3*	2132.2	1864.6
22.5°	2021.7	2021.7	2044.9	2097.3	2185.4	2310.0	2442.1	2474.5	*2404.7*	2295.9	1973.5
25°	2120.6	2117.2	2128.0	2149.6	2216.1	2369.8	2565.9	2663.2	*2585.1*	2462.9	2082.3
27.5°	2256.0	2254.3	2253.5	2256.8	2279.3	2422.2	2670.6	2839.3	*2761.2*	2623.3	2179.6
30°	2403.1	2398.1	2408.9	2398.9	2393.9	2484.5	2759.6	2997.2	*2936.5*	2782.0	2260.2
32.5°	2603.3	2594.2	2591.7	2559.3	2539.4	2581.7	2831.0	3176.7	*3128.5*	2953.2	2350.7
35°	2867.6	2859.3	2816.9	2765.4	2706.4	2726.3	2919.9	3352.0	*3355.3*	3167.5	2469.6
37.5°	3134.3	3136.0	3102.7	2981.4	2920.8	2909.1	3055.4	3565.6	*3637.0*	3423.5	2623.3
40°	3356.2	3366.1	3366.1	3238.2	3147.6	3136.8	3245.7	3819.0	*3961.1*	3737.6	2817.7
42.5°	3524.9	3534.0	3563.1	3470.8	3375.3	3412.7	3476.7	4073.3	*4328.4*	4125.6	3063.7
45°	3710.1	3717.6	3733.4	3680.2	3624.6	3724.3	3738.4	4377.4	*4748.8*	4561.0	3349.5
47.5°	3956.1	3949.5	3951.1	3912.1	3868.9	4030.1	4026.7	4633.3	*5155.2*	5038.0	3659.5
50°	4261.9	4274.4	4262.7	4185.4	4134.8	4281.8	4300.9	4916.7	*5512.5*	5510.0	3971.9
52.5°	4556.0	4561.0	4622.5	4625.8	4522.0	4491.2	4541.1	5202.5	*5814.1*	5942.1	4271.9
55°	4571.0	4590.1	4774.6	4907.5	5075.4	4828.6	4783.7	5475.1	*6105.8*	6365.0	4583.5
57.5°	4252.8	4283.5	4596.8	4883.4	5350.4	5407.8	5199.2	5827.4	*6397.4*	6781.3	4944.1
60°	3573.0	3637.0	4062.5	4501.2	5226.6	5824.1	6049.2	6306.0	*6780.5*	7206.7	5382.0
62.5°	2281.8	2306.7	2903.3	3637.9	4669.1	5783.3	6974.9	7149.4	*7363.8*	7761.0	6056.7
65°	1142.5	1222.3	1572.1	2171.2	3367.0	5096.2	7442.7	8694.1	*8431.6*	8709.9	7150.2
67.5°	775.3	801.0	978.0	1304.6	1974.3	3610.4	7152.7	9995.4	*9918.1*	9963.8	8316.1
70°	*571.7*	*588.3*	*727.9*	*924.0*	*1194.1*	*2049.9*	*5694.4*	*9897.3*	*10425.0*	*10408.4*	*8193.9*
72.5°	417.1	425.4	531.0	705.5	885.0	1060.3	3477.5	7995.3	*9100.5*	9579.9	7166.0
75°	303.3	313.3	368.9	527.6	688.0	661.4	1716.7	5775.0	*6940.0*	7862.4	5838.2
77.5°	226.0	238.5	264.2	330.7	481.9	473.6	742.0	3750.0	*4488.7*	5135.2	3546.5
80°	162.9	165.4	180.3	211.9	305.8	277.5	353.1	1955.2	*2241.9*	2456.3	1390.2
82.5°	98.9	101.4	120.5	130.5	189.5	174.5	183.6	633.2	*907.4*	963.1	519.3
85°	29.1	30.7	54.8	59.8	78.9	74.8	74.0	257.6	*307.4*	393.0	204.4
87.5°	0.0	0.0	0.0	0.0	0.8	5.0	9.1	45.7	*69.0*	95.6	49.9
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: P633541
CATALOG NUMBER: GWS-SA2E-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1355.3	1336.2	1326.2	1308.7	1296.3	1283.8	1271.3	1259.7	1254.7	1247.2	1248.9
5°	1379.4	1349.4	1319.5	1285.5	1256.4	1232.3	1210.7	1191.6	1183.3	1175.8	1179.1
7.5°	1415.9	1371.1	1313.7	1251.4	1205.7	1172.5	1150.0	1136.7	1132.6	1126.8	1126.8
10°	1462.5	1395.1	1294.6	1205.7	1150.9	1124.3	1114.3	1113.5	1117.6	1118.4	1116.8
12.5°	1514.0	1418.4	1266.4	1151.7	1105.2	1096.8	1104.3	1118.4	1132.6	1140.1	1138.4
15°	1567.2	1433.4	1218.2	1100.2	1071.9	1082.7	1106.8	1135.1	1162.5	1176.6	1175.8
17.5°	1617.0	1436.7	1155.8	1050.3	1042.8	1070.3	1111.8	1155.8	1193.2	1213.2	1214.0
20°	1672.7	1430.9	1091.9	1005.4	1013.7	1058.6	1113.5	1166.6	1210.7	1230.6	1235.6
22.5°	1723.4	1410.9	1029.5	963.1	988.8	1044.5	1100.2	1150.0	1189.1	1208.2	1214.8
25°	1769.1	1372.7	961.4	927.3	969.7	1024.5	1066.9	1101.8	1129.2	1140.9	1150.0
27.5°	1794.0	1315.4	909.9	899.1	951.4	996.3	1019.6	1030.4	1039.5	1036.2	1042.8
30°	1799.0	1243.9	865.0	876.6	924.0	957.2	962.2	951.4	935.6	909.9	915.7
32.5°	1794.0	1161.7	827.6	852.5	893.3	913.2	906.6	878.3	840.1	800.2	802.7
35°	1795.7	1078.6	796.9	826.0	857.5	868.3	851.7	812.7	771.9	735.4	733.7
37.5°	1813.9	1008.8	771.1	800.2	822.6	824.3	806.0	765.3	744.5	717.1	713.8
40°	1864.6	957.2	747.8	774.4	788.6	787.7	767.0	737.9	752.0	742.9	740.4
42.5°	1947.7	925.7	728.7	747.0	757.0	758.6	742.0	723.7	754.5	742.9	738.7
45°	2081.5	924.0	715.4	719.6	735.4	747.0	735.4	714.6	726.2	669.7	658.9
47.5°	2240.2	952.3	705.5	695.5	722.9	743.7	725.4	692.2	668.1	616.6	609.1
50°	2431.3	1009.6	696.3	669.7	704.6	731.2	712.9	667.2	630.7	603.3	599.1
52.5°	2658.2	1085.2	684.7	640.7	677.2	724.6	712.9	664.8	616.6	591.6	587.5
55°	2895.8	1172.5	671.4	605.8	646.5	726.2	718.8	647.3	605.8	592.5	589.1
57.5°	3190.8	1277.2	647.3	565.0	619.1	711.3	695.5	637.3	598.3	587.5	584.2
60°	3573.9	1432.5	601.6	523.5	587.5	684.7	674.7	620.7	578.3	569.2	566.7
62.5°	4180.5	1695.9	545.9	483.6	550.1	629.0	644.0	589.1	553.4	552.6	551.7
65°	5169.3	2012.5	480.3	447.9	511.0	583.3	603.3	556.7	527.6	536.8	536.0
67.5°	5862.3	2040.0	426.3	410.5	465.3	533.5	562.5	523.5	491.9	509.4	508.5
70°	*5369.5*	*1591.3*	*379.7*	*371.4*	*416.3*	*479.5*	*518.5*	*481.9*	*450.4*	*467.0*	*463.7*
72.5°	4528.6	1219.8	335.7	330.7	366.4	422.9	462.0	440.4	407.2	407.2	399.7
75°	3639.5	1006.3	289.2	286.7	310.8	365.6	409.7	373.1	342.3	340.7	335.7
77.5°	2087.3	659.8	242.6	241.0	248.5	305.8	318.3	310.8	287.5	276.7	273.4
80°	831.8	343.2	191.1	180.3	187.8	224.4	250.9	238.5	218.5	205.2	197.8
82.5°	322.4	172.0	134.6	118.0	128.8	162.0	182.0	177.8	164.5	134.6	126.3
85°	131.3	83.9	80.6	68.1	74.8	87.2	104.7	90.6	74.8	53.2	50.7
87.5°	34.9	30.7	29.9	18.3	14.1	4.2	0.8	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

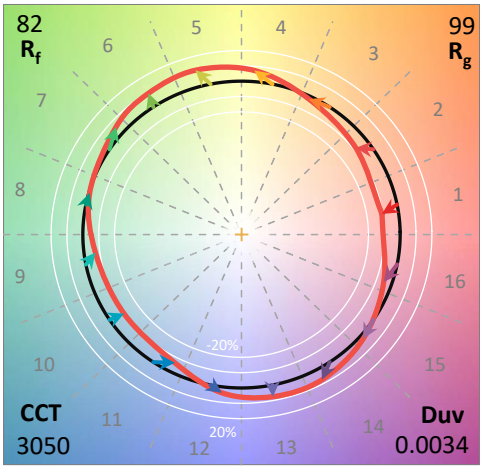
Test Information

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

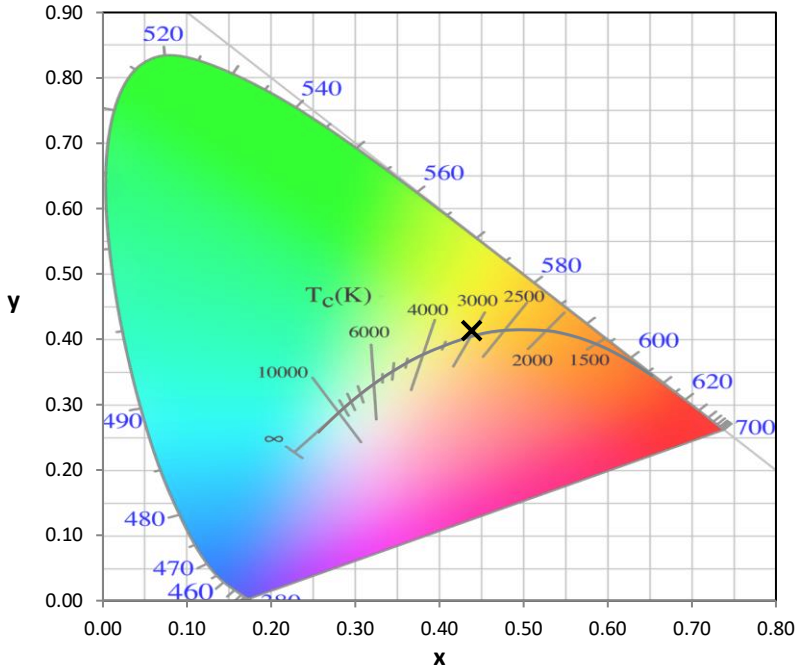
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

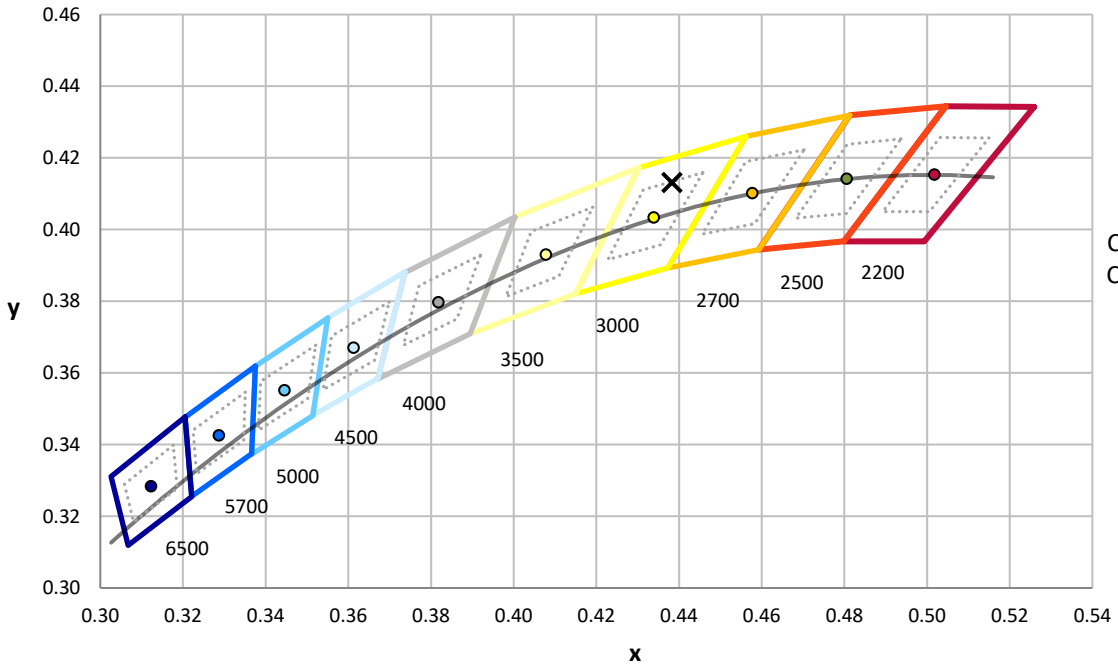
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

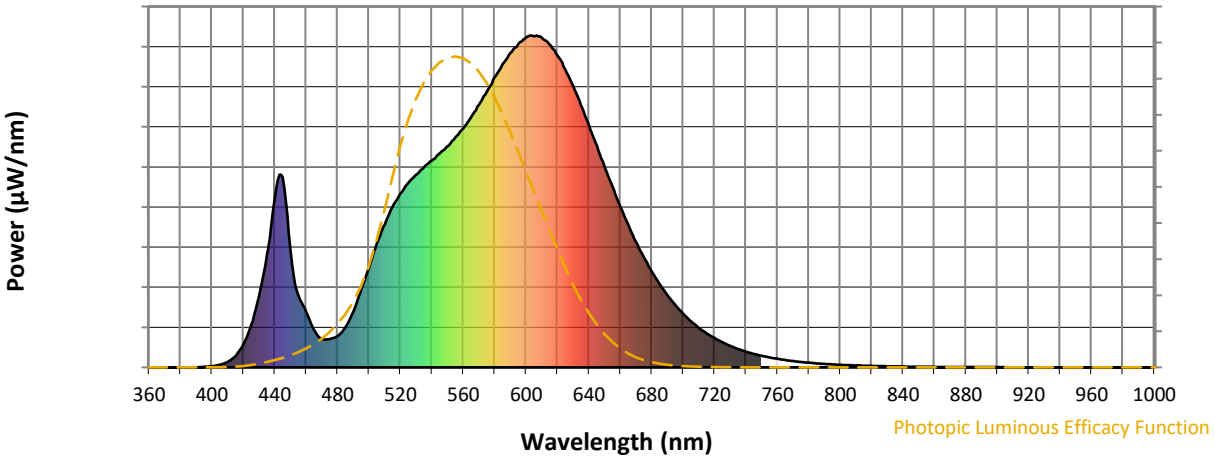


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

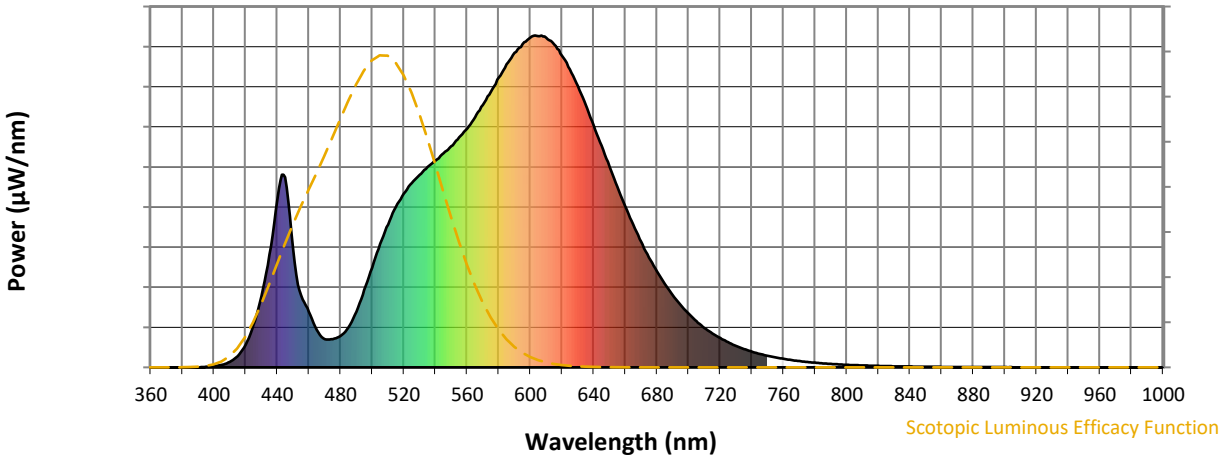


Photopic Lumens: NR

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

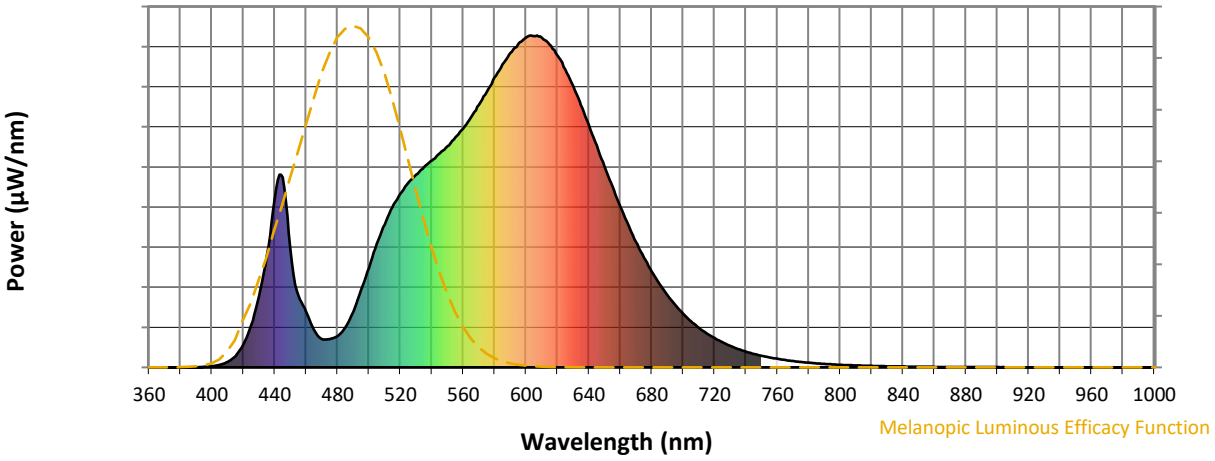


Scotopic Lumens: NR **S/P: 1.27**

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			

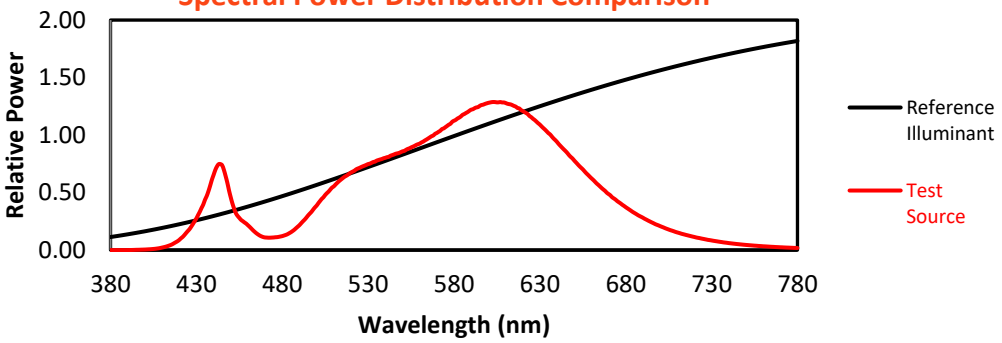
REPORT NUMBER: SP1-2408-195-9

TM-30-18

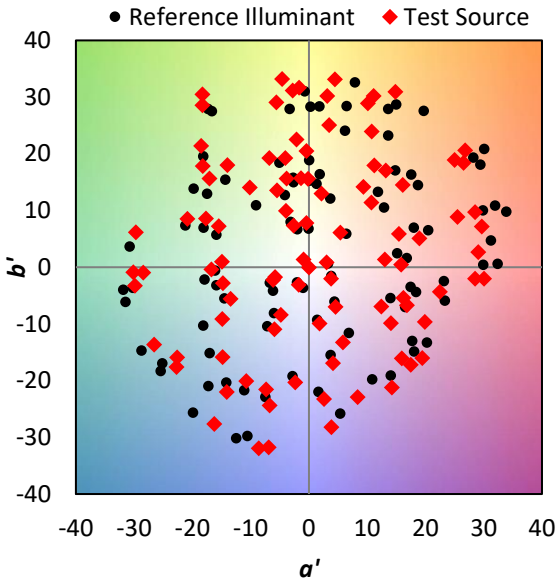
Summary

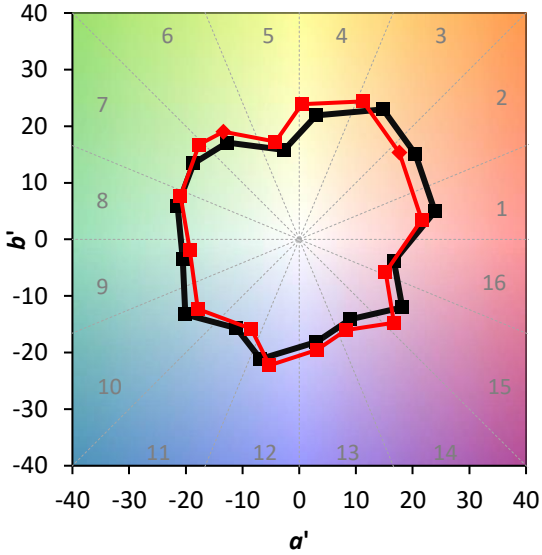
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

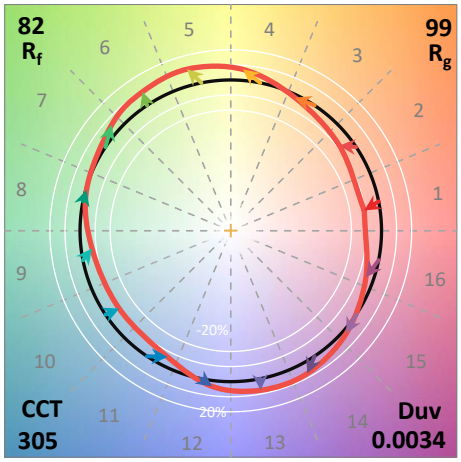
Spectral Power Distribution Comparison

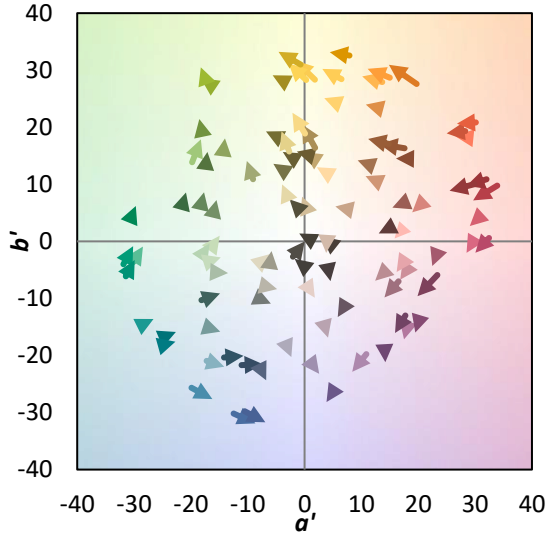


Color Vector Graphics







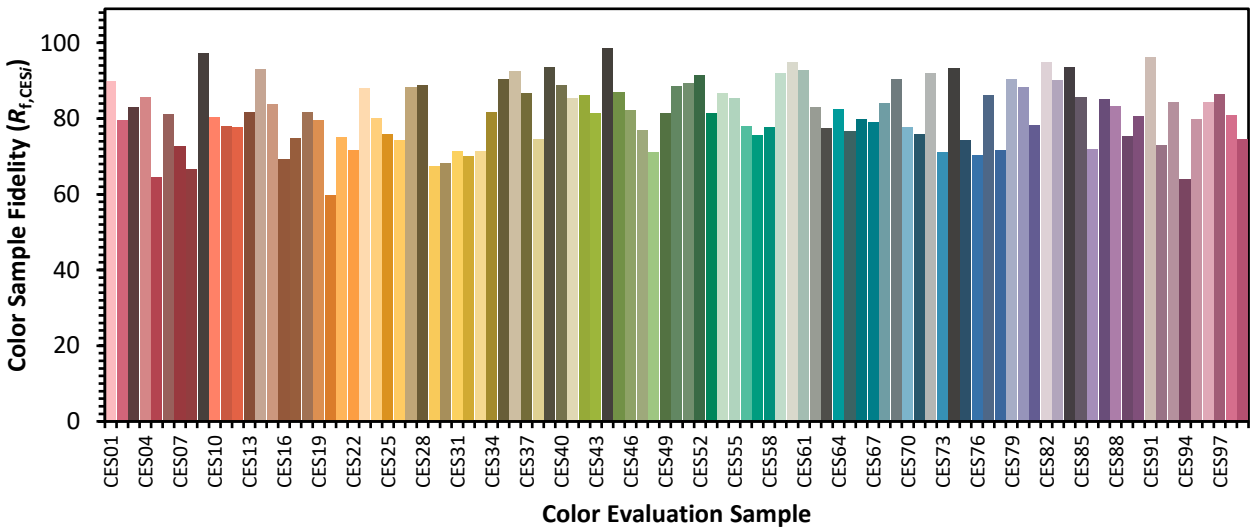


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

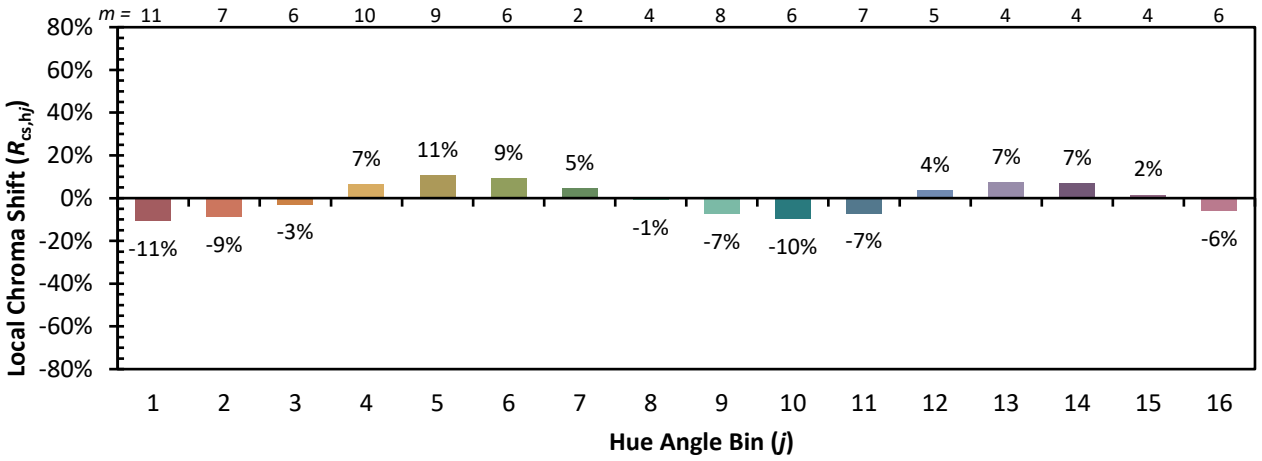
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

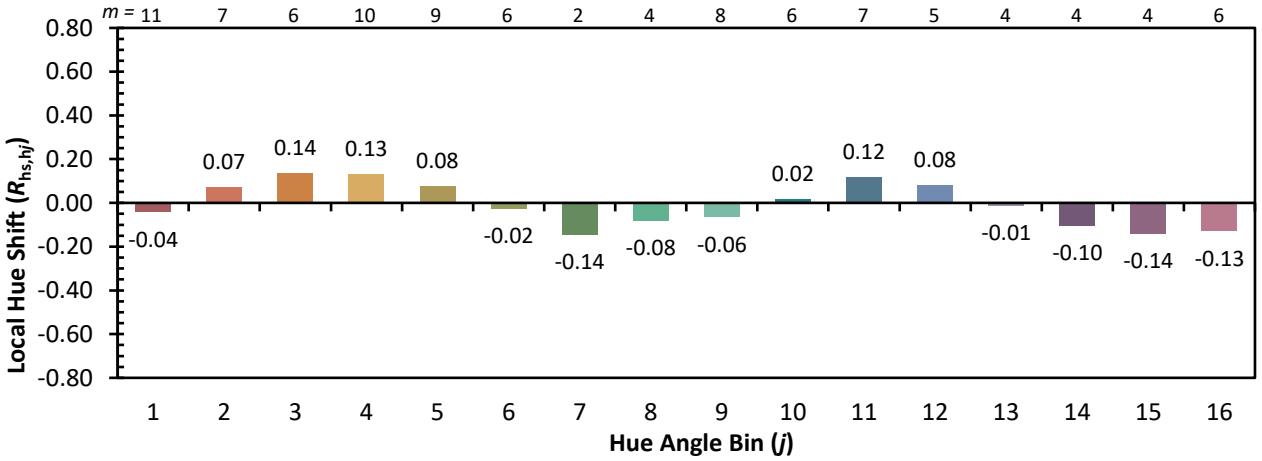


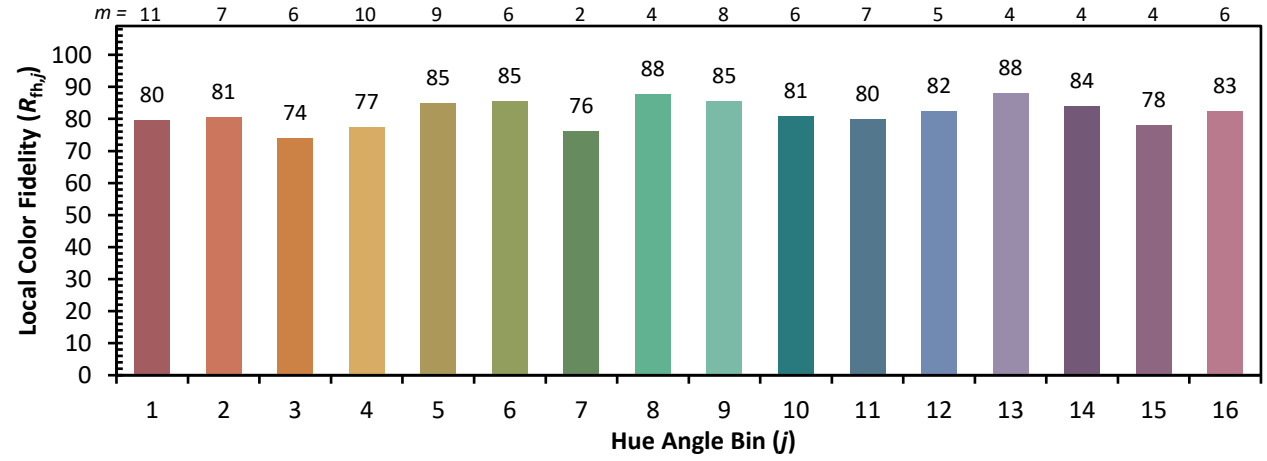
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



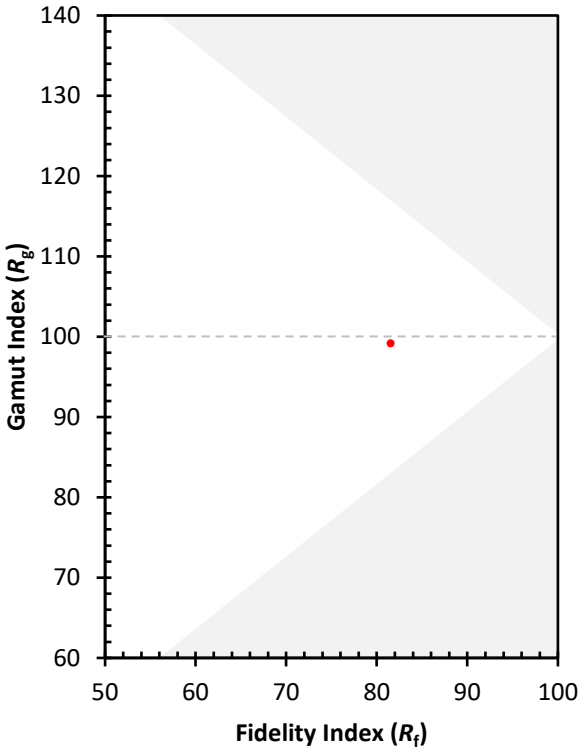


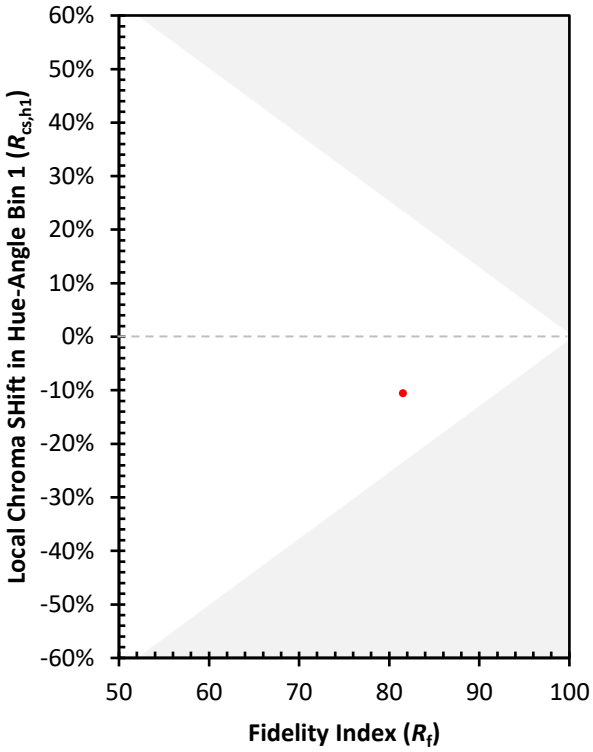


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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