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: P635521

Luminaire Tested: GWS-SA3D-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:	P635521
	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-SA3D-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13870 lumens
Efficiency:	N/A
Efficacy:	114.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	120.8
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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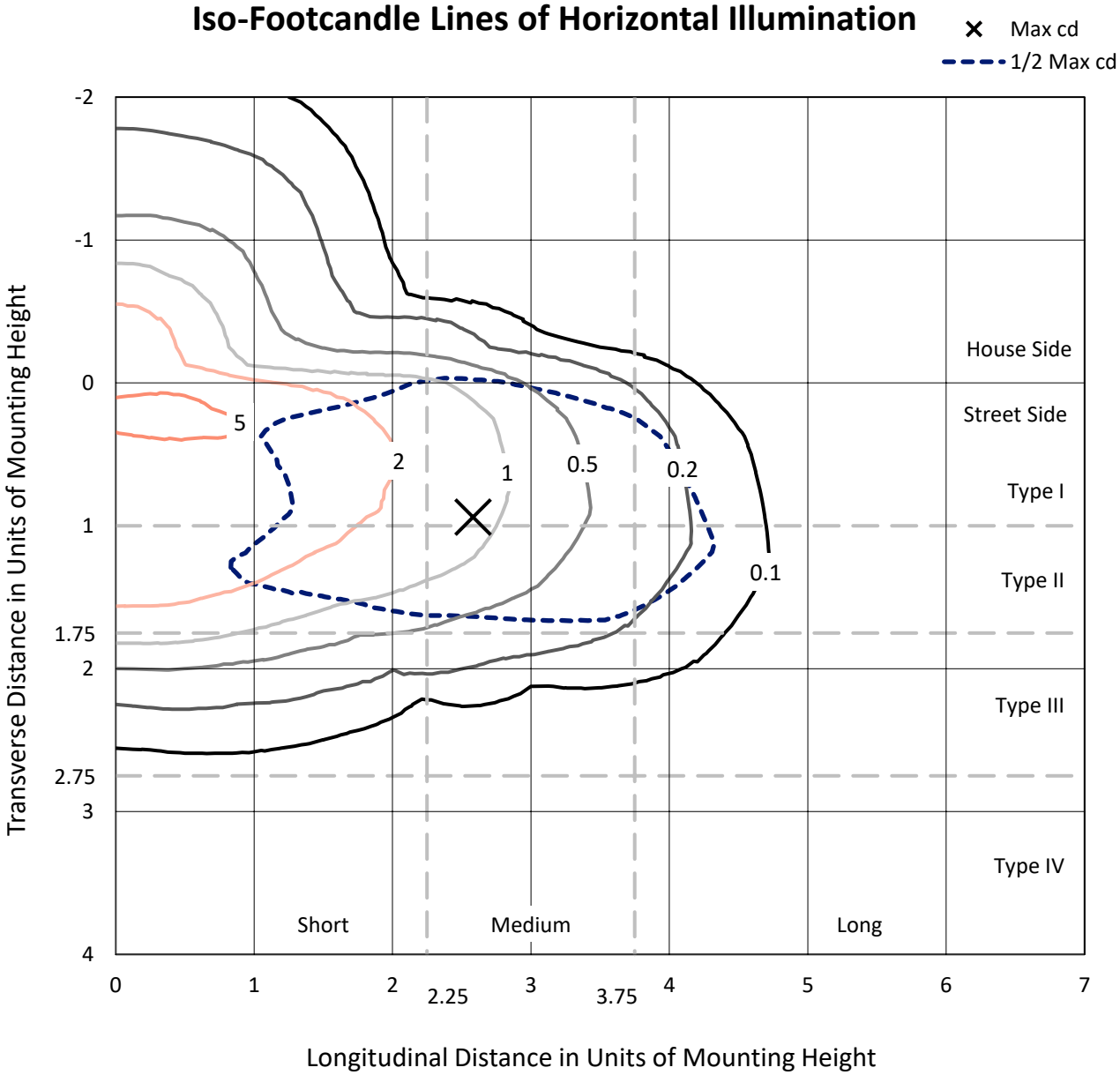
Scaled Data Report

REPORT NUMBER: P635521
CATALOG NUMBER: GWS-SA3D-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Medium - N/A

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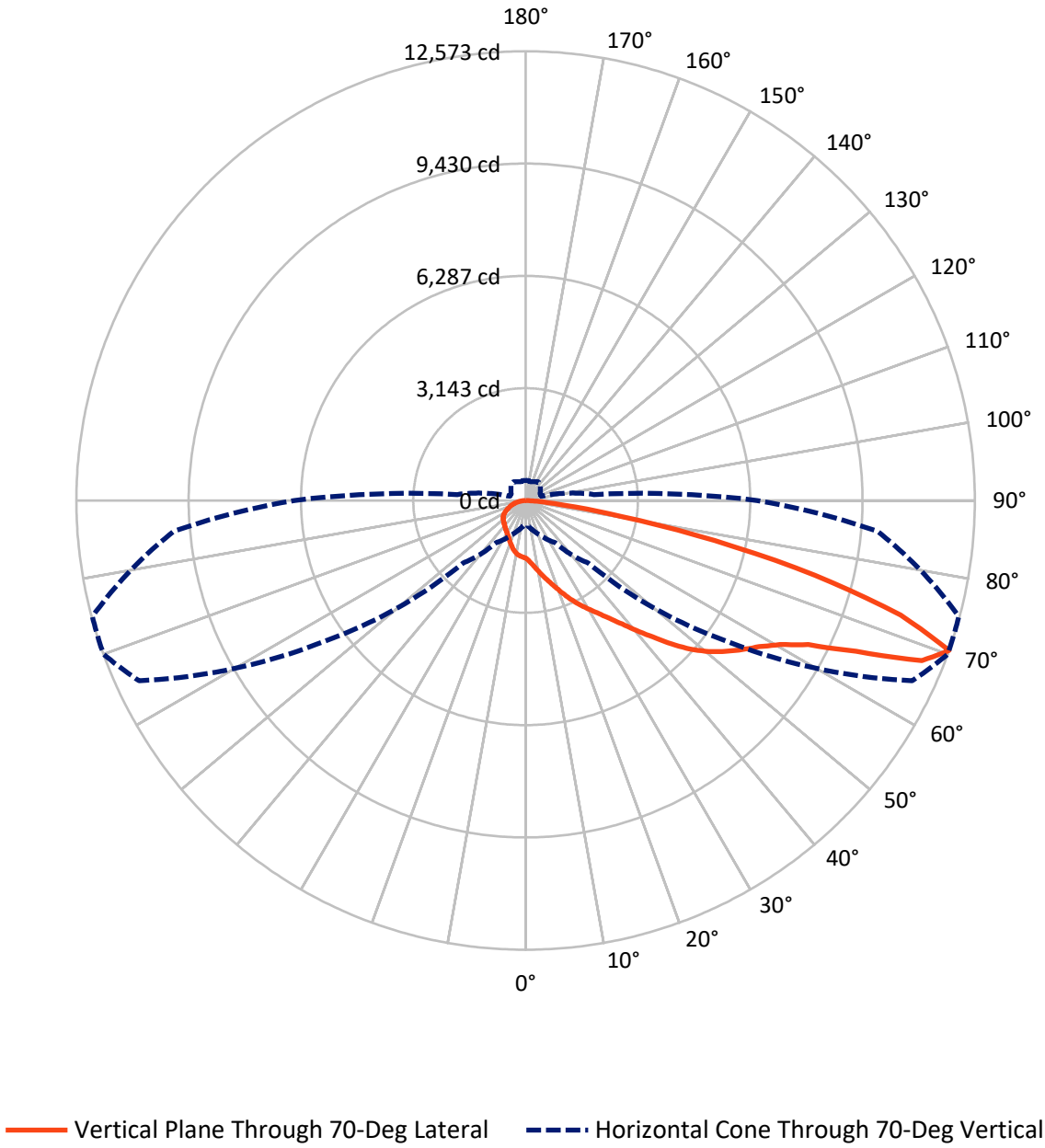
CATALOG NUMBER: GWS-SA3D-830-U-T2-W

Luminous Intensity Polar Plot



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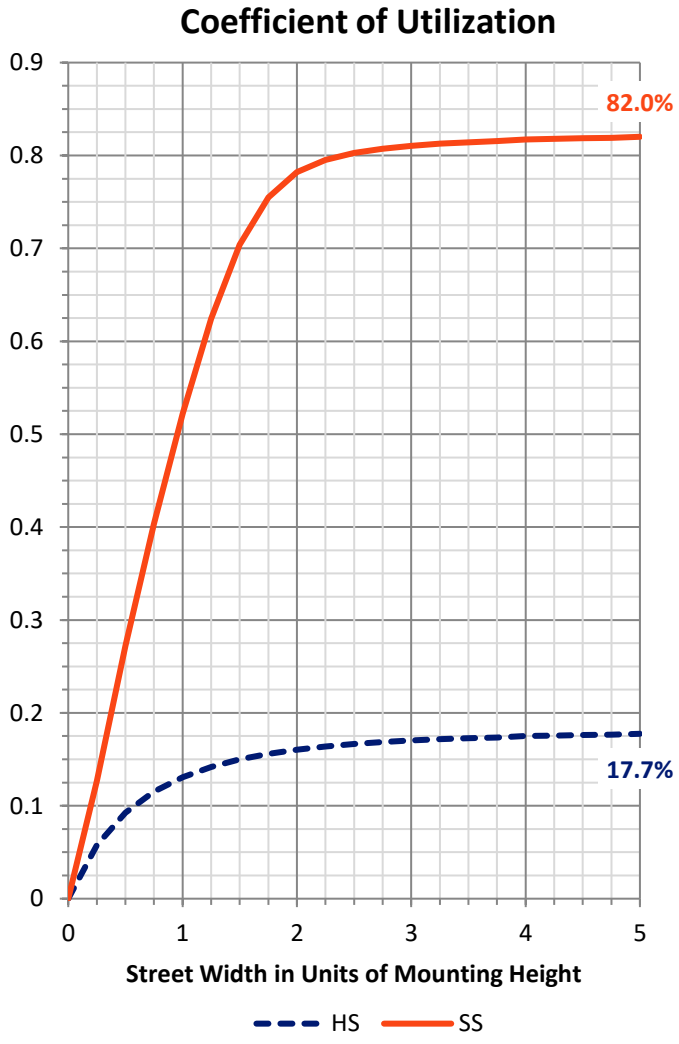
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2485.5	0.0	2485.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11384.5	0.0	11384.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	13870.0	0.0	13870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.2
10°-20°	534.8	3.9
20°-30°	947.4	6.8
30°-40°	1425.9	10.3
40°-50°	2157.2	15.6
50°-60°	3090.3	22.3
60°-70°	3416.0	24.6
70°-80°	1927.7	13.9
80°-90°	206.2	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°	13870.0	100.0
0°-180°	13870.0	100.0



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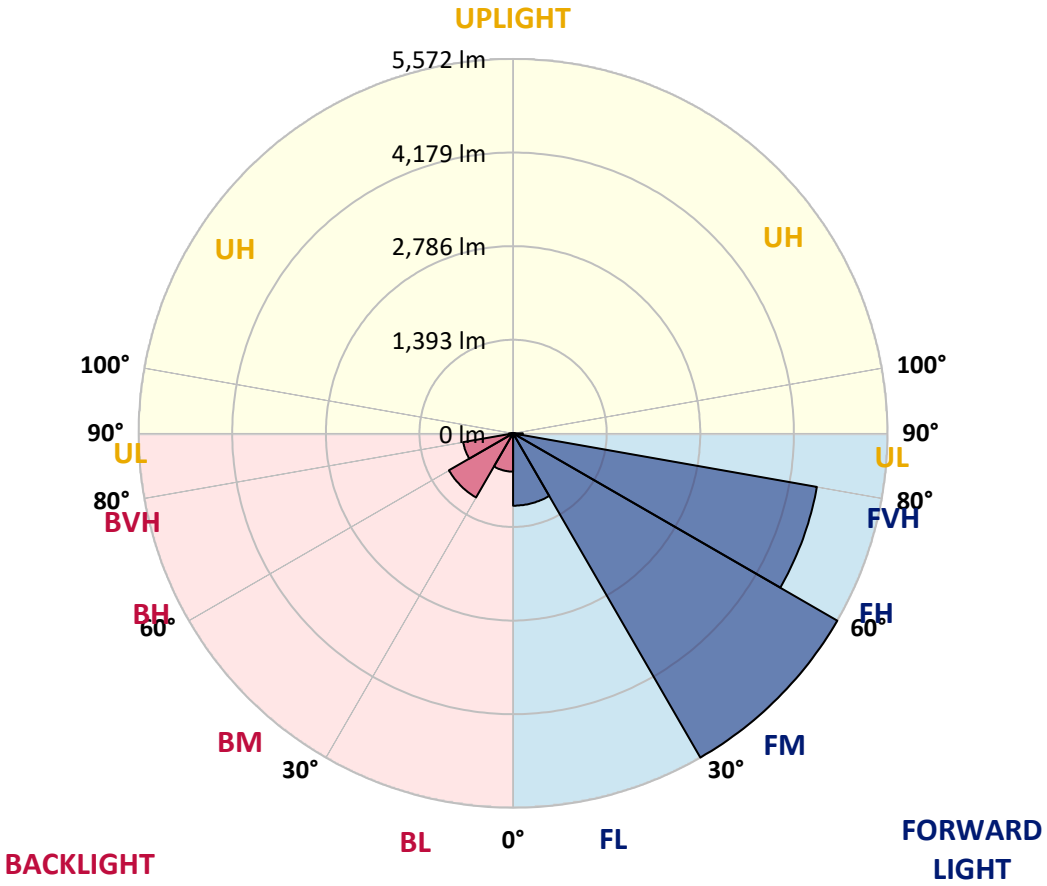
REPORT NUMBER: P635521
CATALOG NUMBER: GWS-SA3D-830-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1076.7	7.8			
FM	(30°-60°)	5571.6	40.2			
FH	(60°-80°)	4590.4	33.1			G2/5000
FVH	(80°-90°)	145.8	1.1			G2/225
BL	(0°-30°)	569.9	4.1	B2/1000		
BM	(30°-60°)	1101.9	7.9	B2/2500		
BH	(60°-80°)	753.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	60.4	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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REPORT NUMBER: P635521
CATALOG NUMBER: GWS-SA3D-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	*1617.5*	1617.5	1617.5
2.5°	1791.9	1788.9	1790.9	1788.9	1777.9	1750.8	1728.8	1700.7	*1681.7*	1670.6	1644.6
5°	2002.4	1999.4	1992.3	1982.3	1962.3	1925.2	1870.1	1808.9	*1771.9*	1743.8	1688.7
7.5°	2153.7	2153.7	2152.7	2140.7	2126.6	2087.6	2022.4	1942.2	*1888.1*	1840.0	1749.8
10°	2230.9	2235.9	2242.9	2259.9	2256.9	2235.9	2174.7	2088.6	*2020.4*	1964.3	1830.0
12.5°	2273.0	2276.0	2288.0	2323.1	2359.1	2364.2	2328.1	2237.9	*2163.7*	2088.6	1919.2
15°	2327.1	2328.1	2344.1	2386.2	2439.3	2492.4	2483.4	2393.2	*2317.1*	2233.9	2018.4
17.5°	2369.2	2376.2	2405.2	2454.4	2520.5	2593.7	2637.8	2581.6	*2487.4*	2392.2	2126.6
20°	2384.2	2389.2	2427.3	2502.5	2592.7	2695.9	2794.1	2779.1	*2683.9*	2571.6	2248.9
22.5°	2438.3	2438.3	2466.4	2529.5	2635.8	2786.1	2945.4	2984.5	*2900.3*	2769.0	2380.2
25°	2557.6	2553.6	2566.6	2592.7	2672.8	2858.2	3094.8	3212.0	*3117.8*	2970.5	2511.5
27.5°	2720.9	2718.9	2717.9	2721.9	2749.0	2921.4	3221.0	3424.5	*3330.3*	3163.9	2628.7
30°	2898.3	2892.3	2905.3	2893.3	2887.3	2996.5	3328.3	3614.9	*3541.7*	3355.3	2725.9
32.5°	3139.9	3128.8	3125.8	3086.7	3062.7	3113.8	3414.4	3831.4	*3773.2*	3561.8	2835.2
35°	3458.5	3448.5	3397.4	3335.3	3264.1	3288.2	3521.7	4042.8	*4046.8*	3820.3	2978.5
37.5°	3780.2	3782.3	3742.2	3595.8	3522.7	3508.7	3685.0	4300.4	*4386.6*	4129.0	3163.9
40°	4047.8	4059.9	4059.9	3905.5	3796.3	3783.3	3914.5	4606.0	*4777.4*	4507.8	3398.4
42.5°	4251.3	4262.3	4297.4	4186.1	4070.9	4116.0	4193.1	4912.7	*5220.4*	4975.9	3695.1
45°	4474.8	4483.8	4502.8	4438.7	4371.5	4491.8	4508.8	5279.5	*5727.5*	5501.0	4039.8
47.5°	4771.4	4763.4	4765.4	4718.3	4666.2	4860.6	4856.6	5588.2	*6217.6*	6076.3	4413.6
50°	5140.2	5155.2	5141.2	5048.0	4986.9	5164.3	5187.3	5929.9	*6648.5*	6645.5	4790.5
52.5°	5495.0	5501.0	5575.2	5579.2	5453.9	5416.8	5476.9	6274.7	*7012.3*	7166.6	5152.2
55°	5513.0	5536.1	5758.6	5918.9	6121.4	5823.7	5769.6	6603.4	*7364.1*	7676.7	5528.1
57.5°	5129.2	5166.3	5544.1	5889.9	6453.1	6522.2	6270.7	7028.3	*7715.8*	8178.8	5963.0
60°	4309.4	4386.6	4899.7	5428.8	6303.8	7024.3	7295.9	7605.6	*8177.8*	8692.0	6491.2
62.5°	2752.0	2782.1	3501.6	4387.6	5631.3	6975.2	8412.4	8622.8	*8881.4*	9360.4	7304.9
65°	1378.0	1474.2	1896.1	2618.7	4060.9	6146.4	8976.6	10485.9	*10169.2*	10504.9	8623.8
67.5°	935.0	966.1	1179.6	1573.4	2381.2	4354.5	8626.8	12055.3	*11962.1*	12017.2	10029.9
70°	*689.5*	*709.5*	*877.9*	*1114.4*	*1440.1*	*2472.4*	*6868.0*	*11937.0*	*12573.4*	*12553.4*	*9882.6*
72.5°	503.1	513.1	640.4	850.9	1067.3	1278.8	4194.2	9643.0	*10975.9*	11554.2	8642.9
75°	365.8	377.8	445.0	636.4	829.8	797.7	2070.5	6965.2	*8370.3*	9482.7	7041.4
77.5°	272.6	287.6	318.7	398.9	581.3	571.2	895.0	4522.9	*5413.8*	6193.5	4277.3
80°	196.4	199.4	217.5	255.6	368.8	334.7	425.9	2358.1	*2703.9*	2962.5	1676.7
82.5°	119.3	122.3	145.3	157.3	228.5	210.5	221.5	763.7	*1094.4*	1161.5	626.4
85°	35.1	37.1	66.1	72.2	95.2	90.2	89.2	310.7	*370.8*	474.0	246.5
87.5°	0.0	0.0	0.0	0.0	1.0	6.0	11.0	55.1	*83.2*	115.3	60.1
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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REPORT NUMBER: P635521
CATALOG NUMBER: GWS-SA3D-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5	1617.5
2.5°	1634.6	1611.5	1599.5	1578.4	1563.4	1548.4	1533.3	1519.3	1513.3	1504.3	1506.3
5°	1663.6	1627.6	1591.5	1550.4	1515.3	1486.2	1460.2	1437.1	1427.1	1418.1	1422.1
7.5°	1707.7	1653.6	1584.5	1509.3	1454.2	1414.1	1387.0	1371.0	1366.0	1359.0	1359.0
10°	1763.8	1682.7	1561.4	1454.2	1388.0	1356.0	1343.9	1342.9	1347.9	1348.9	1346.9
12.5°	1826.0	1710.7	1527.3	1389.0	1332.9	1322.9	1331.9	1348.9	1366.0	1375.0	1373.0
15°	1890.1	1728.8	1469.2	1326.9	1292.8	1305.8	1334.9	1369.0	1402.1	1419.1	1418.1
17.5°	1950.3	1732.8	1394.0	1266.8	1257.7	1290.8	1340.9	1394.0	1439.1	1463.2	1464.2
20°	2017.4	1725.8	1316.9	1212.6	1222.7	1276.8	1342.9	1407.1	1460.2	1484.2	1490.3
22.5°	2078.5	1701.7	1241.7	1161.5	1192.6	1259.7	1326.9	1387.0	1434.1	1457.2	1465.2
25°	2133.7	1655.6	1159.5	1118.4	1169.6	1235.7	1286.8	1328.9	1362.0	1376.0	1387.0
27.5°	2163.7	1586.5	1097.4	1084.4	1147.5	1201.6	1229.7	1242.7	1253.7	1249.7	1257.7
30°	2169.7	1500.3	1043.3	1057.3	1114.4	1154.5	1160.5	1147.5	1128.5	1097.4	1104.4
32.5°	2163.7	1401.1	998.2	1028.2	1077.4	1101.4	1093.4	1059.3	1013.2	965.1	968.1
35°	2165.7	1300.8	961.1	996.2	1034.3	1047.3	1027.2	980.1	931.0	886.9	884.9
37.5°	2187.8	1216.7	930.0	965.1	992.2	994.2	972.1	923.0	898.0	864.9	860.9
40°	2248.9	1154.5	902.0	934.0	951.1	950.1	925.0	889.9	907.0	896.0	892.9
42.5°	2349.1	1116.4	878.9	901.0	913.0	915.0	895.0	872.9	910.0	896.0	890.9
45°	2510.5	1114.4	862.9	867.9	886.9	901.0	886.9	861.9	875.9	807.8	794.7
47.5°	2701.9	1148.5	850.9	838.8	871.9	897.0	874.9	834.8	805.8	743.6	734.6
50°	2932.4	1217.7	839.8	807.8	849.9	881.9	859.9	804.8	760.7	727.6	722.6
52.5°	3206.0	1308.9	825.8	772.7	816.8	873.9	859.9	801.7	743.6	713.6	708.5
55°	3492.6	1414.1	809.8	730.6	779.7	875.9	866.9	780.7	730.6	714.6	710.6
57.5°	3848.4	1540.4	780.7	681.5	746.6	857.9	838.8	768.7	721.6	708.5	704.5
60°	4310.4	1727.8	725.6	631.4	708.5	825.8	813.8	748.6	697.5	686.5	683.5
62.5°	5042.0	2045.5	658.4	583.3	663.4	758.7	776.7	710.6	667.5	666.5	665.5
65°	6234.6	2427.3	579.3	540.2	616.3	703.5	727.6	671.5	636.4	647.4	646.4
67.5°	7070.4	2460.4	514.1	495.1	561.2	643.4	678.5	631.4	593.3	614.3	613.3
70°	*6476.1*	*1919.2*	*458.0*	*448.0*	*502.1*	*578.3*	*625.4*	*581.3*	*543.2*	*563.2*	*559.2*
72.5°	5461.9	1471.2	404.9	398.9	442.0	510.1	557.2	531.2	491.1	491.1	482.1
75°	4389.6	1213.6	348.8	345.8	374.8	441.0	494.1	450.0	412.9	410.9	404.9
77.5°	2517.5	795.7	292.6	290.6	299.7	368.8	383.8	374.8	346.8	333.7	329.7
80°	1003.2	413.9	230.5	217.5	226.5	270.6	302.7	287.6	263.6	247.5	238.5
82.5°	388.8	207.5	162.4	142.3	155.3	195.4	219.5	214.5	198.4	162.4	152.3
85°	158.3	101.2	97.2	82.2	90.2	105.2	126.3	109.2	90.2	64.1	61.1
87.5°	42.1	37.1	36.1	22.0	17.0	5.0	1.0	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

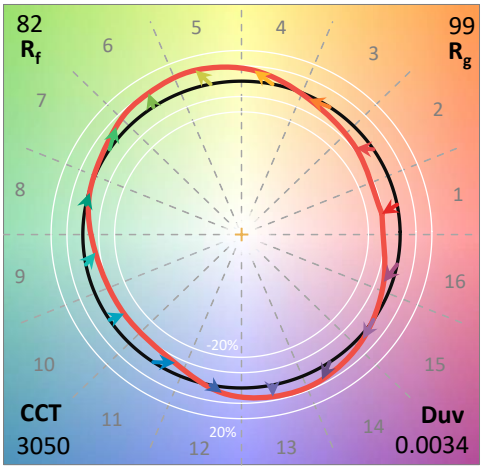
Test Information

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

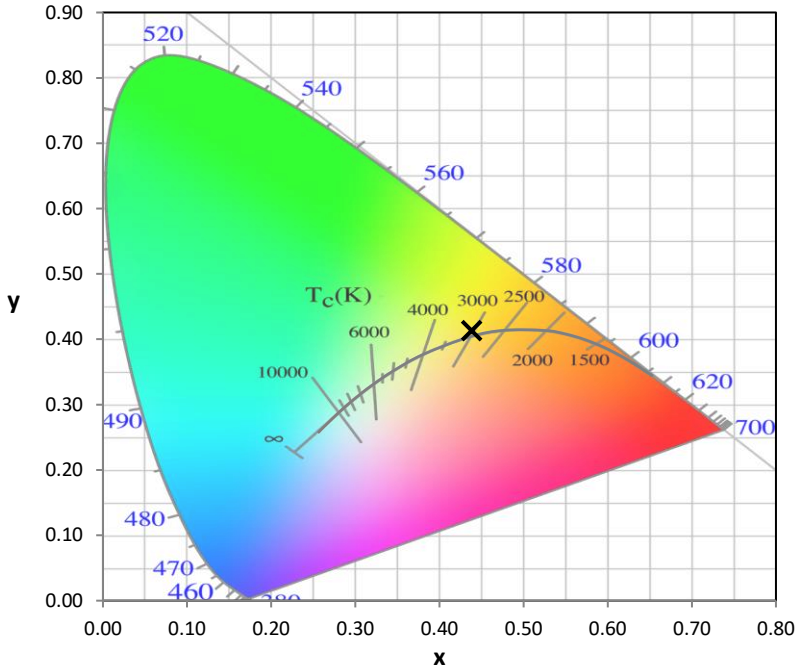
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

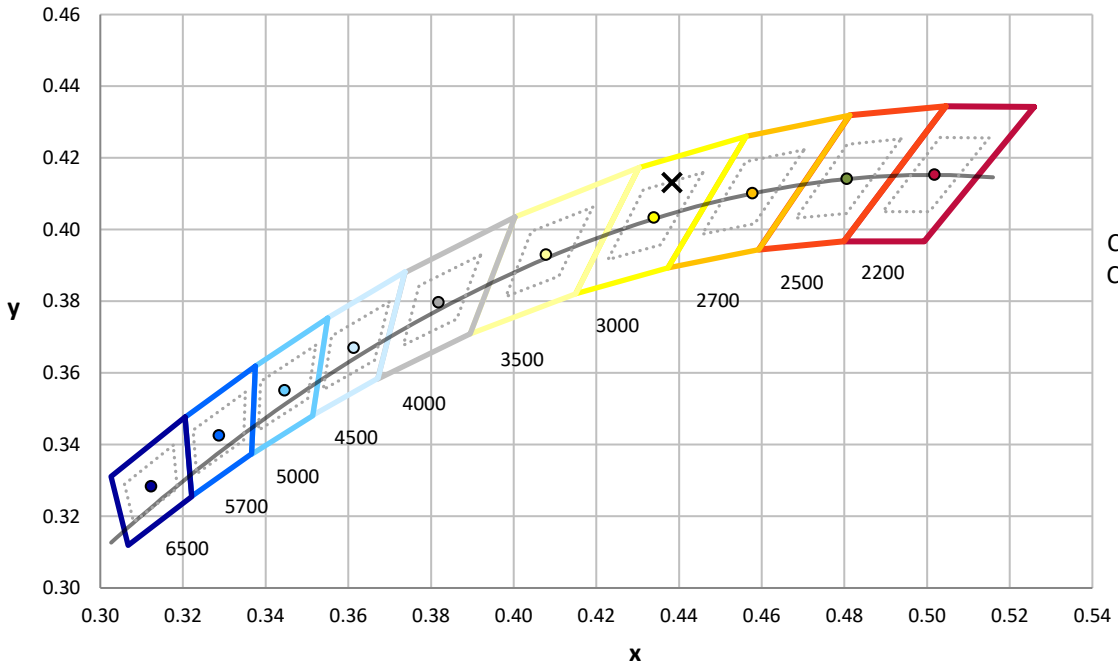
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

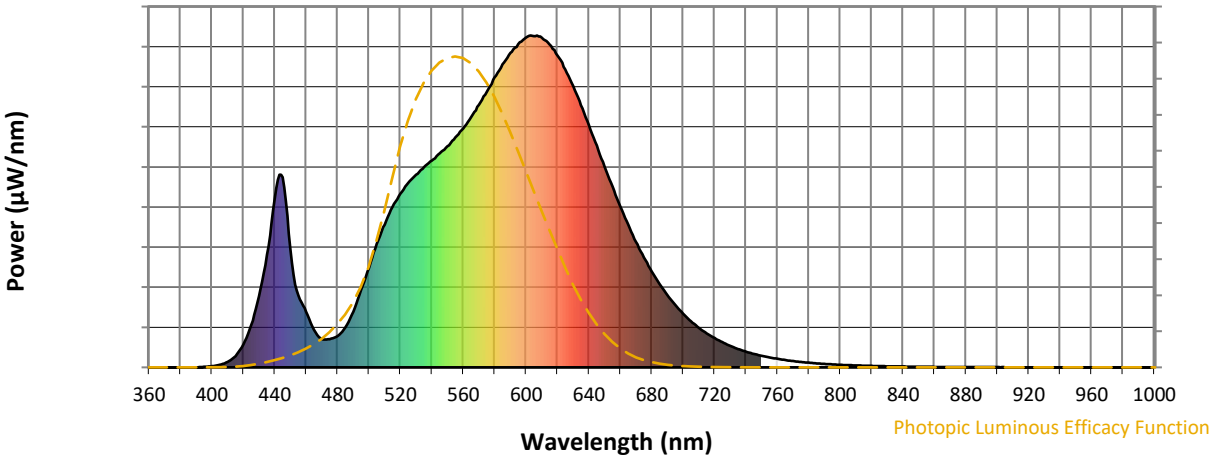


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

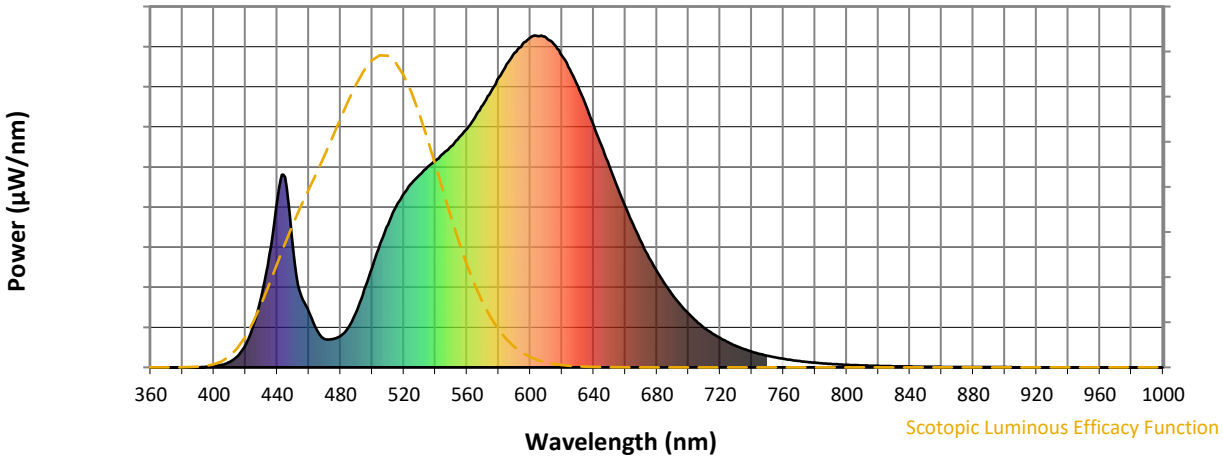


Photopic Lumens: NR

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

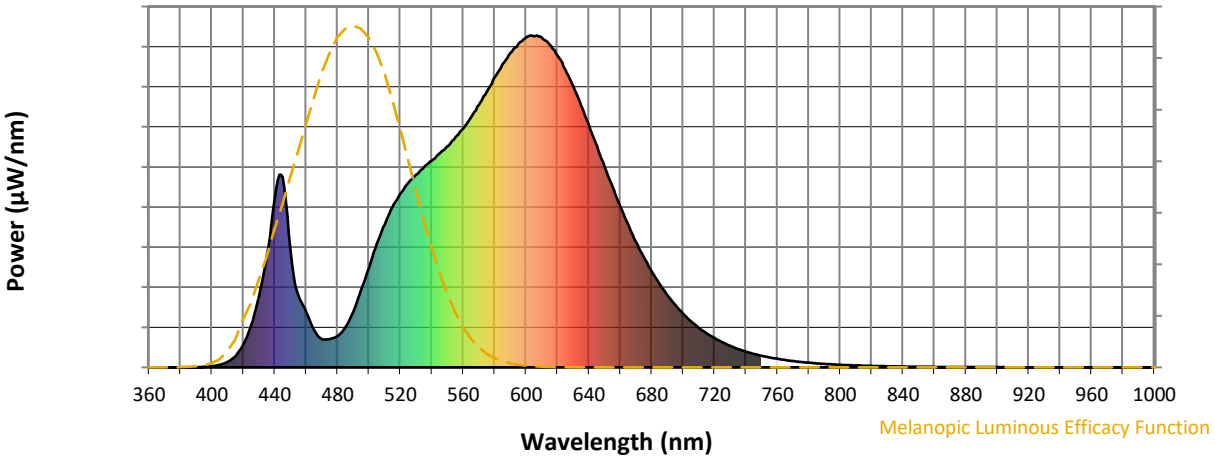


Scotopic Lumens: NR **S/P: 1.27**

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			

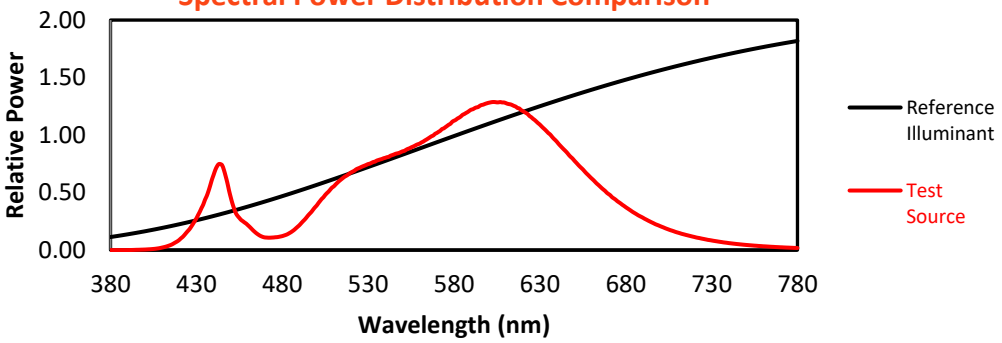
REPORT NUMBER: SP1-2408-195-9

TM-30-18

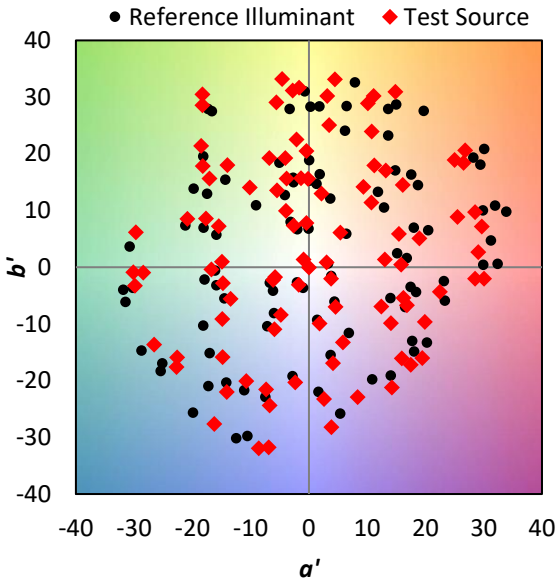
Summary

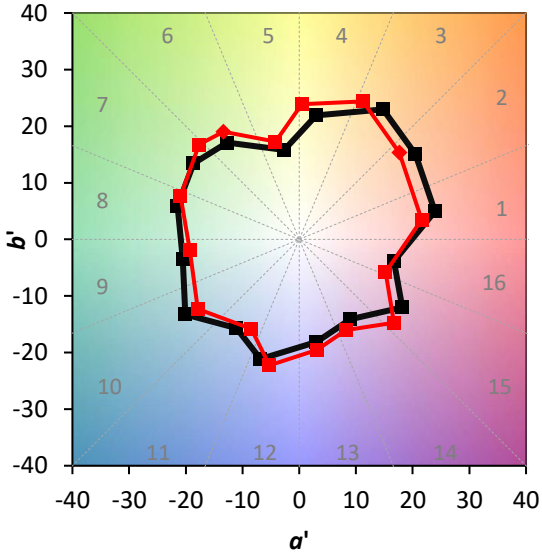
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

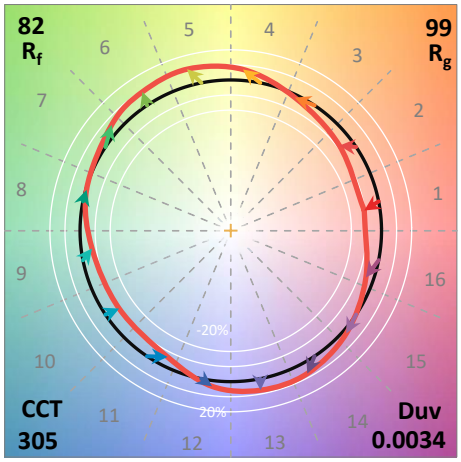
Spectral Power Distribution Comparison

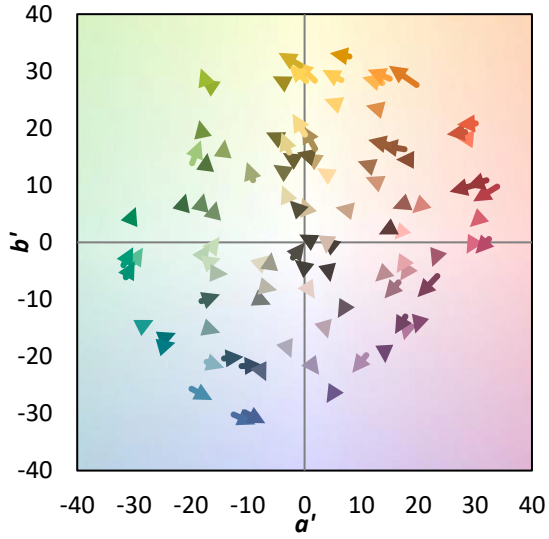


Color Vector Graphics







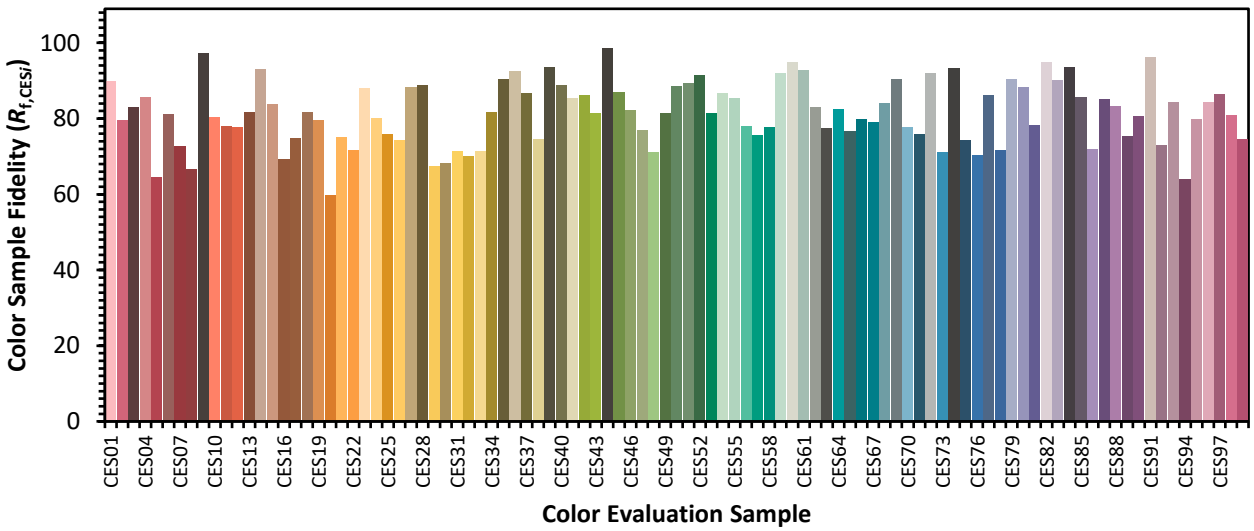


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

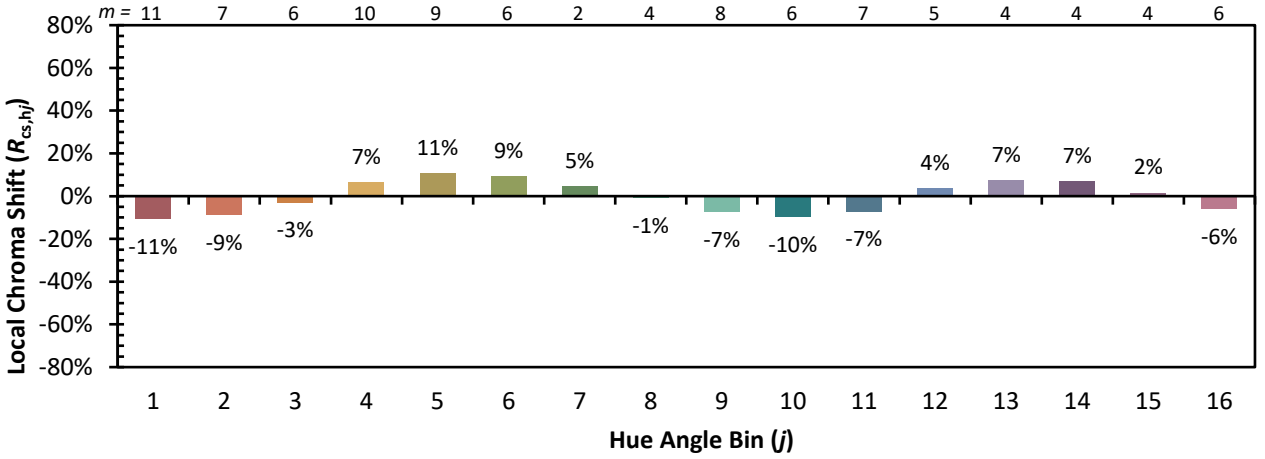
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

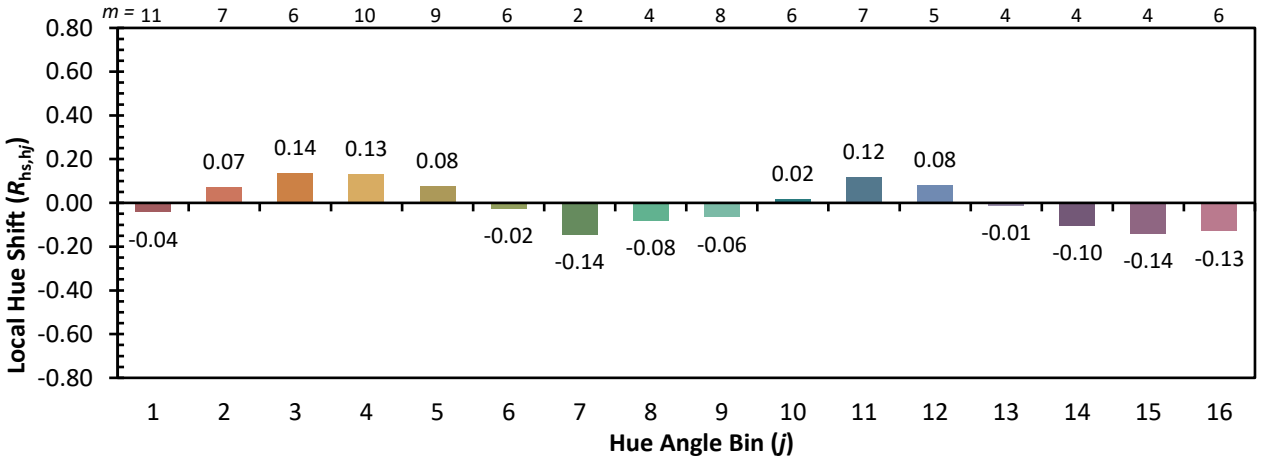


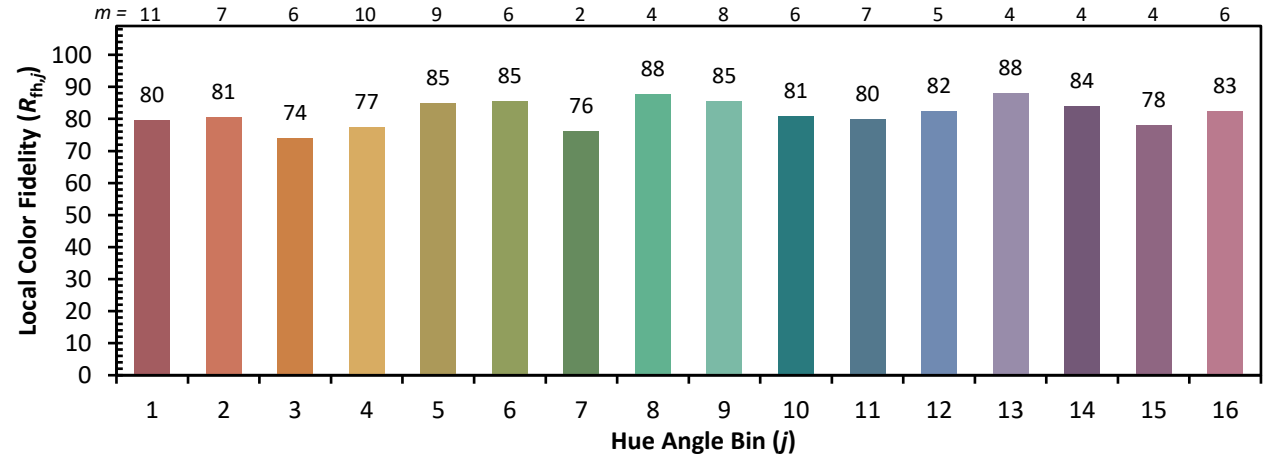
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



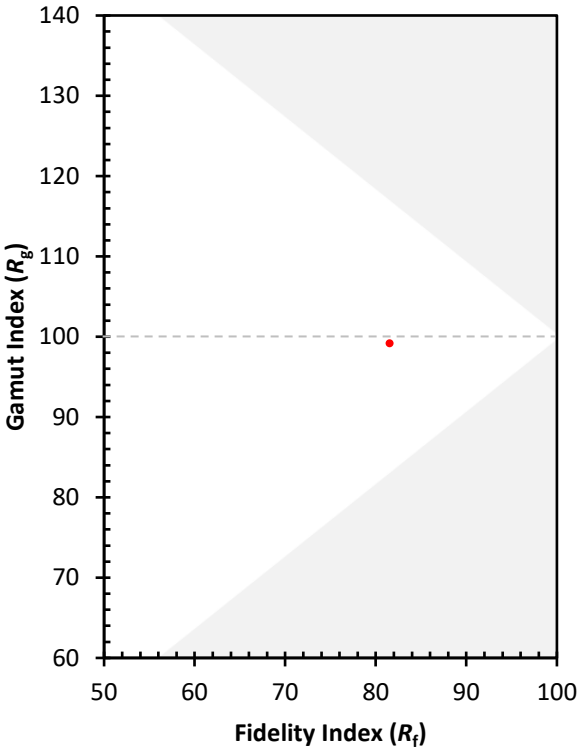


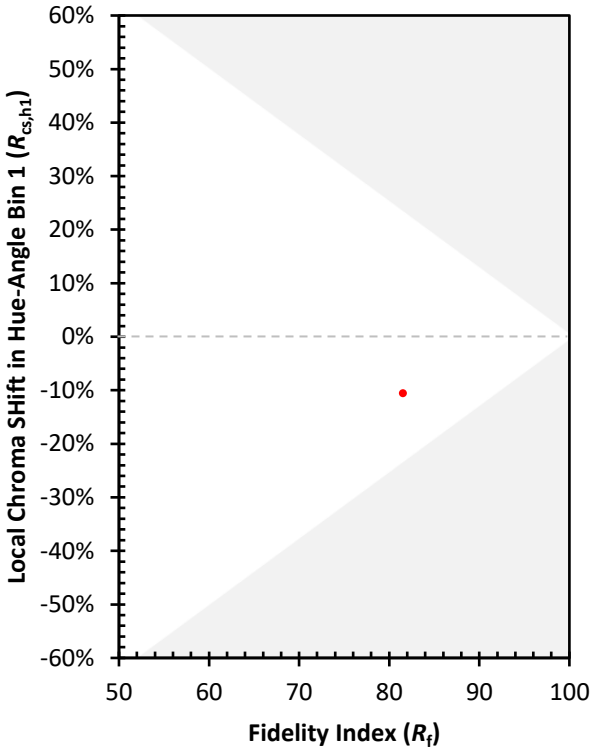


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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