Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P318546

Luminaire Tested: **GLEON-SA2A-830-U-T3**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P318546
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA2A-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7579 lumens
Efficiency:	N/A
Efficacy:	114.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P318546
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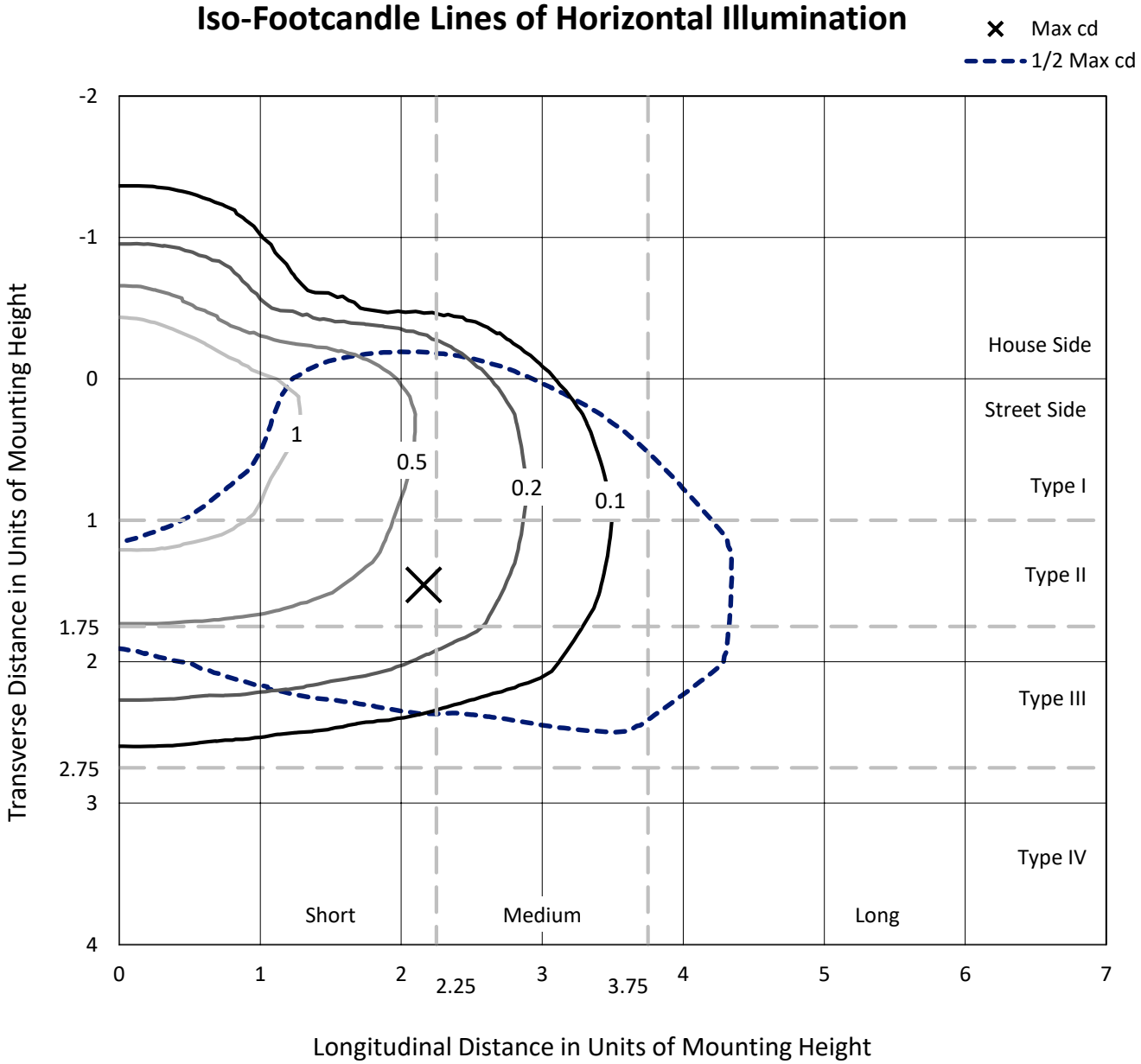
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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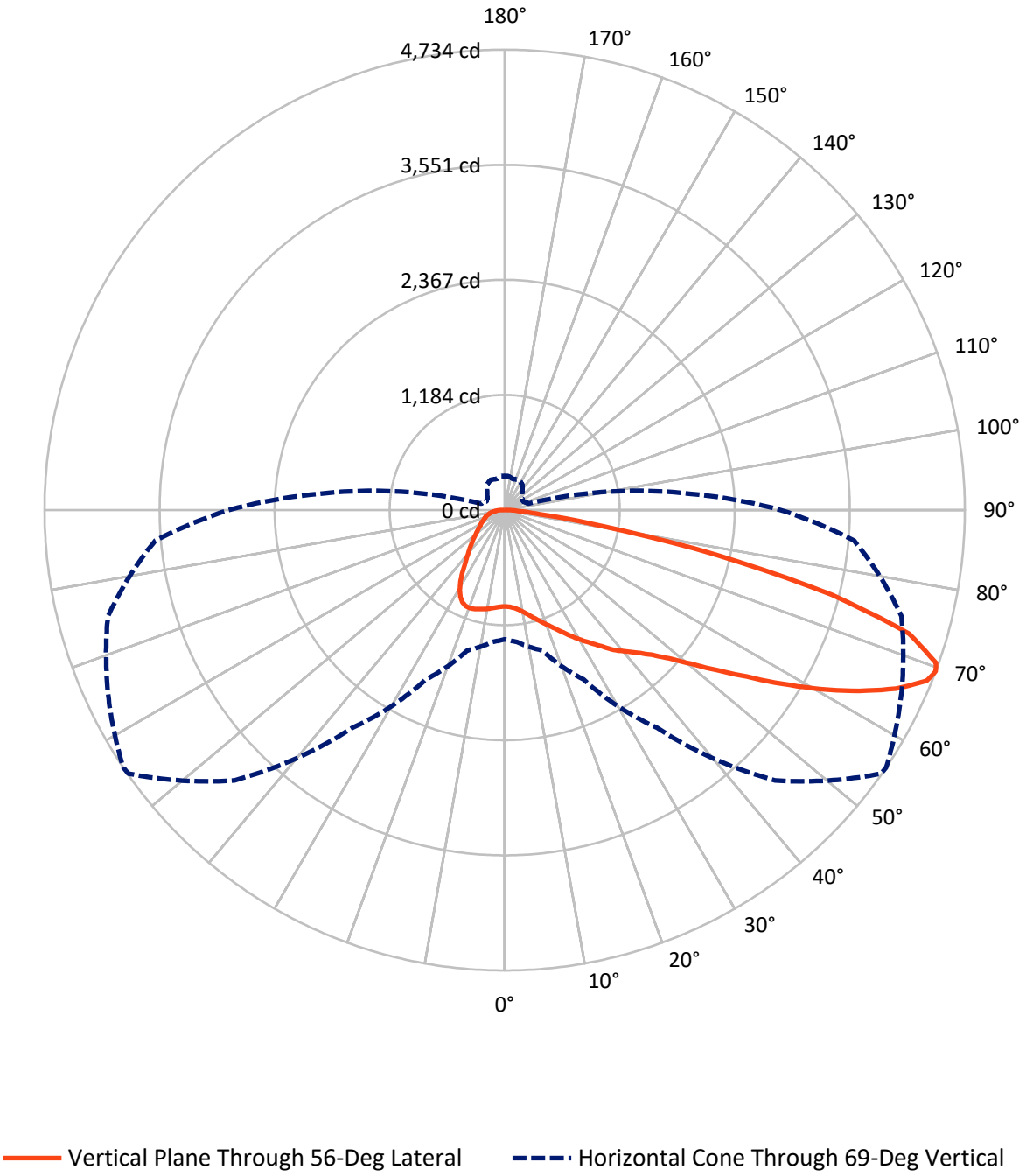
Luminous Intensity Polar Plot



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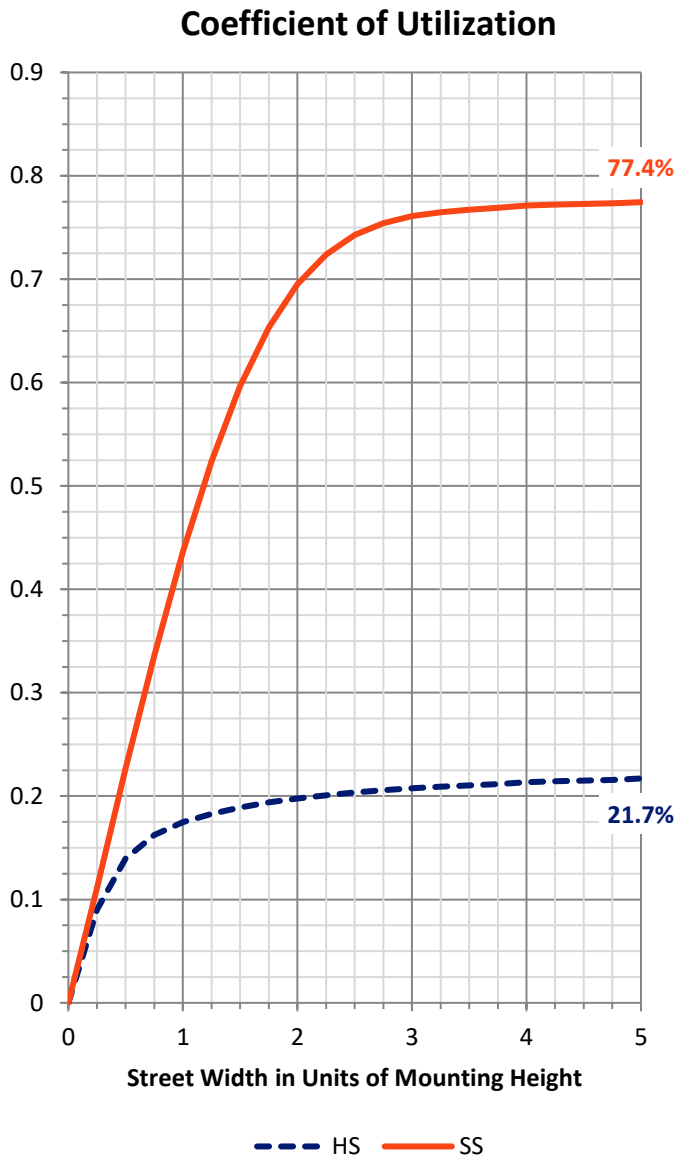
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.8	0.0	1687.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5891.2	0.0	5891.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	7579.0	0.0	7579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	312.9	4.1
20°-30°	546.3	7.2
30°-40°	784.7	10.4
40°-50°	1086.0	14.3
50°-60°	1591.1	21.0
60°-70°	1939.8	25.6
70°-80°	1072.5	14.2
80°-90°	148.5	2.0
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°	7579.0	100.0
0°-180°	7579.0	100.0



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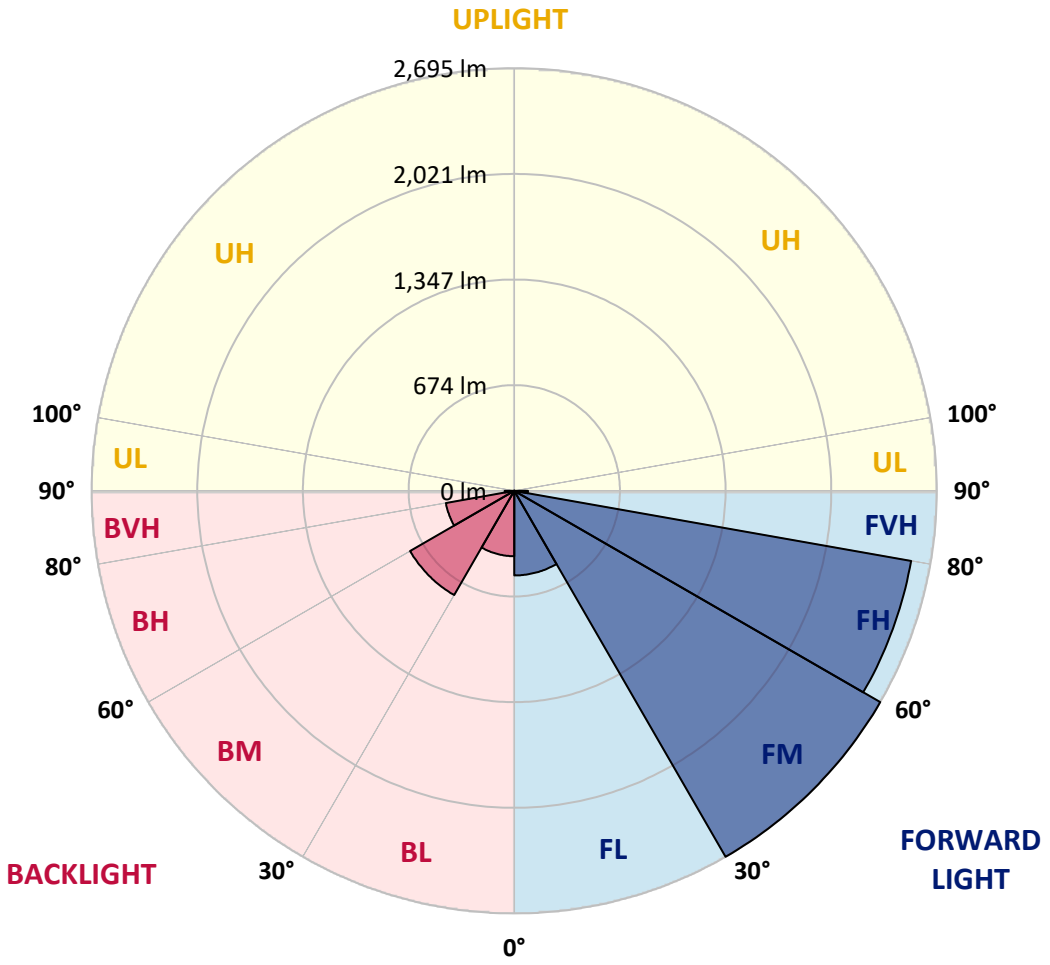
CATALOG NUMBER: GLEON-SA2A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	539.4	7.1			
FM	(30°-60°)	2694.6	35.6			
FH	(60°-80°)	2569.7	33.9			G2/5000
FVH	(80°-90°)	87.5	1.2			G1/100
BL	(0°-30°)	417.1	5.5	B1/500		
BM	(30°-60°)	767.1	10.1	B1/1000		
BH	(60°-80°)	442.6	5.8	B1/500		G1/500
BVH	(80°-90°)	61.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P318546
CATALOG NUMBER: GLEON-SA2A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	990.8	990.8	990.8	990.8	990.8	990.8	990.8	*990.8*	990.8	990.8	990.8
2.5°	997.1	998.2	997.4	999.5	997.1	998.7	997.4	*997.4*	996.6	994.2	991.6
5°	1012.8	1014.9	1013.6	1015.6	1012.8	1013.3	1010.9	*1010.9*	1008.6	1003.6	998.4
7.5°	1037.3	1039.7	1038.6	1040.7	1036.8	1036.8	1033.7	*1033.4*	1028.7	1020.6	1014.6
10°	1066.6	1069.7	1068.6	1071.8	1068.6	1069.7	1066.6	*1066.6*	1060.3	1048.8	1041.2
12.5°	1109.1	1113.0	1110.2	1109.9	1108.6	1110.7	1108.1	*1107.5*	1101.8	1086.1	1075.7
15°	1166.0	1170.2	1164.2	1163.7	1156.4	1155.6	1155.6	*1154.8*	1151.2	1132.4	1115.1
17.5°	1231.6	1232.9	1227.6	1219.3	1209.9	1203.9	1203.1	*1205.2*	1205.2	1183.3	1155.8
20°	1295.8	1298.1	1294.0	1284.6	1272.6	1263.7	1257.4	*1261.6*	1261.3	1235.2	1196.3
22.5°	1365.8	1371.2	1365.0	1353.0	1338.9	1329.0	1318.0	*1321.6*	1321.9	1289.8	1236.0
25°	1456.4	1451.4	1447.5	1430.5	1410.4	1400.2	1390.0	*1393.7*	1392.7	1348.5	1277.0
27.5°	1536.5	1537.6	1532.3	1514.3	1491.1	1468.6	1468.1	*1470.5*	1466.5	1409.6	1315.6
30°	1629.7	1630.3	1622.9	1606.8	1581.4	1552.4	1545.7	*1549.6*	1541.2	1467.6	1356.4
32.5°	1722.4	1725.0	1716.9	1697.4	1677.0	1641.7	1628.2	*1630.8*	1609.9	1526.9	1398.4
35°	1803.6	1807.3	1804.7	1791.6	1769.4	1739.1	1722.9	*1721.4*	1695.5	1599.4	1454.0
37.5°	1886.4	1889.8	1886.9	1875.9	1867.1	1834.9	1826.3	*1826.3*	1781.4	1673.6	1524.8
40°	1971.5	1976.7	1973.3	1958.2	1950.6	1936.0	1915.4	*1910.4*	1861.8	1762.6	1640.2
42.5°	2050.6	2057.4	2071.0	2062.1	2046.7	2048.8	2007.3	*2004.7*	1969.1	1894.2	1785.1
45°	2162.9	2172.8	2195.8	2189.0	2185.9	2174.4	2125.0	*2122.7*	2109.1	2071.2	1965.0
47.5°	2285.3	2298.9	2340.4	2341.7	2375.4	2353.7	2286.6	*2278.5*	2281.7	2283.2	2184.5
50°	2398.1	2413.0	2481.1	2513.3	2592.6	2597.3	2490.0	*2482.7*	2495.0	2531.0	2440.4
52.5°	2488.2	2507.0	2592.1	2691.3	2827.4	2866.0	2740.4	*2734.9*	2744.1	2806.2	2729.7
55°	2554.3	2574.6	2667.3	2848.0	3065.2	3133.4	3028.7	*3023.4*	3029.2	3108.3	3044.3
57.5°	2569.7	2574.6	2709.1	2953.5	3266.0	3429.7	3381.4	*3370.9*	3342.7	3411.7	3391.6
60°	2497.3	2517.2	2674.6	2990.5	3421.3	3721.9	3750.0	*3737.0*	3657.9	3714.3	3698.1
62.5°	2350.6	2386.1	2545.9	2934.1	3482.2	3960.5	4111.7	*4096.0*	3959.7	3996.3	3918.5
65°	2110.9	2126.1	2293.9	2739.6	3404.9	4113.2	4434.1	*4426.3*	4254.7	4197.6	3959.2
67.5°	1682.2	1710.7	1853.2	2333.1	3088.7	4095.2	4683.4	*4682.7*	4447.4	4272.2	3814.8
69°	*1329.0*	*1358.5*	*1494.2*	*1921.9*	*2733.1*	*3930.5*	*4725.2*	*4734.4*	*4501.7*	*4226.8*	*3608.5*
70°	1059.5	1093.7	1186.9	1618.8	2417.4	3713.2	4690.5	*4706.9*	4491.3	4151.9	3418.2
72.5°	450.9	478.6	544.9	834.4	1473.3	2772.8	4288.7	*4350.8*	4249.3	3799.9	2825.0
75°	196.9	205.5	235.5	340.2	654.0	1509.1	3359.7	*3474.6*	3633.3	3211.9	2104.4
77.5°	144.1	147.8	164.2	199.7	293.5	570.0	2160.5	*2227.4*	2620.3	2337.3	1290.8
80°	111.5	114.1	126.9	146.7	191.6	230.5	985.4	*1042.8*	1473.3	1200.5	537.6
82.5°	88.8	90.6	99.5	108.1	132.4	139.7	327.1	*362.9*	543.9	331.6	142.3
85°	82.5	84.6	87.7	78.8	84.9	82.0	141.5	*148.0*	164.2	130.3	59.5
87.5°	37.3	44.1	86.9	61.4	45.2	36.0	58.0	*60.6*	68.1	68.4	26.4
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: GLEON-SA2A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8
2.5°	993.2	992.4	993.7	990.6	994.5	994.2	992.9	993.5	996.1	995.8	996.1
5°	999.2	998.7	1000.2	997.9	1002.6	1004.2	1004.4	1006.8	1009.6	1010.4	1010.4
7.5°	1014.3	1014.3	1015.1	1012.0	1015.1	1014.9	1013.6	1015.9	1018.8	1019.0	1018.8
10°	1040.4	1040.7	1039.4	1031.3	1028.7	1021.6	1015.1	1015.4	1019.0	1021.9	1022.7
12.5°	1073.3	1072.3	1066.6	1051.7	1040.7	1026.3	1019.6	1019.3	1023.0	1025.3	1026.1
15°	1110.9	1108.1	1093.2	1068.9	1049.6	1035.5	1024.5	1021.9	1019.8	1017.2	1017.5
17.5°	1146.5	1139.9	1115.1	1081.4	1061.1	1042.3	1021.1	1004.2	992.4	985.6	983.5
20°	1182.5	1169.7	1133.9	1093.2	1067.3	1033.1	992.4	957.9	936.5	926.6	924.8
22.5°	1215.4	1194.8	1151.4	1105.5	1062.4	1002.3	938.4	888.2	858.5	845.2	846.2
25°	1247.5	1218.8	1169.7	1114.1	1037.3	948.0	863.2	801.5	767.1	752.2	751.7
27.5°	1275.7	1243.1	1189.5	1107.0	990.6	870.7	774.1	714.1	685.4	672.6	670.5
30°	1308.1	1273.6	1215.9	1080.1	922.2	781.4	687.2	644.9	624.5	611.7	609.4
32.5°	1347.5	1315.1	1237.6	1031.3	834.7	688.2	619.3	589.8	571.3	556.9	554.3
35°	1404.9	1369.9	1243.1	961.3	738.6	614.6	569.4	539.2	514.1	495.6	493.7
37.5°	1477.0	1438.6	1230.5	870.7	645.4	566.8	527.9	490.6	458.0	431.8	427.7
40°	1580.9	1522.9	1195.8	766.3	576.7	530.0	487.5	444.9	404.4	373.9	367.9
42.5°	1705.7	1621.9	1142.5	662.4	526.4	492.7	447.2	394.5	355.9	334.2	331.1
45°	1864.5	1724.8	1068.6	571.5	476.8	455.3	403.9	355.3	331.3	315.4	312.8
47.5°	2045.6	1840.2	991.1	497.6	434.7	420.4	369.2	337.9	318.8	306.3	303.9
50°	2268.4	1970.5	908.9	437.1	392.4	378.3	352.7	328.2	313.0	303.4	301.0
52.5°	2519.5	2117.4	849.6	389.3	357.4	347.3	344.1	323.0	310.7	303.4	301.0
55°	2790.0	2267.1	785.6	349.1	327.1	330.0	338.4	323.5	315.1	306.3	302.9
57.5°	3060.8	2421.6	714.3	315.1	303.1	317.2	334.5	324.5	317.5	308.9	305.7
60°	3274.9	2519.5	603.9	286.7	284.1	303.1	325.1	316.7	307.6	307.8	307.3
62.5°	3374.9	2514.3	482.0	261.4	265.0	284.1	309.9	304.4	296.9	307.0	307.8
65°	3318.7	2389.0	375.2	238.4	244.6	264.2	294.2	298.4	301.0	320.6	323.2
67.5°	3083.2	2145.1	290.6	218.3	226.1	250.6	295.8	325.1	328.5	349.1	348.8
69°	*2839.6*	*1916.4*	*252.5*	*207.8*	*217.0*	*254.0*	*316.2*	*342.0*	*329.2*	*351.2*	*348.0*
70°	2635.5	1735.5	232.1	200.8	212.8	260.0	329.8	341.8	325.3	344.1	338.9
72.5°	2029.7	1248.5	196.9	187.7	198.7	248.8	333.7	334.2	316.2	319.8	311.0
75°	1392.1	789.0	171.8	170.0	177.3	224.3	321.1	319.3	292.4	287.2	279.9
77.5°	767.6	400.8	145.9	153.0	158.0	198.7	291.9	289.3	267.1	256.1	253.5
80°	296.1	175.5	123.2	136.0	139.2	172.1	255.9	253.5	235.0	220.9	217.0
82.5°	111.7	91.9	101.8	117.8	116.7	142.0	216.7	215.4	197.4	176.8	170.5
85°	51.7	55.1	80.7	97.1	89.6	105.2	173.4	175.7	153.8	129.2	129.2
87.5°	21.9	30.8	57.2	73.4	60.3	71.0	127.2	121.4	111.5	77.3	72.6
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

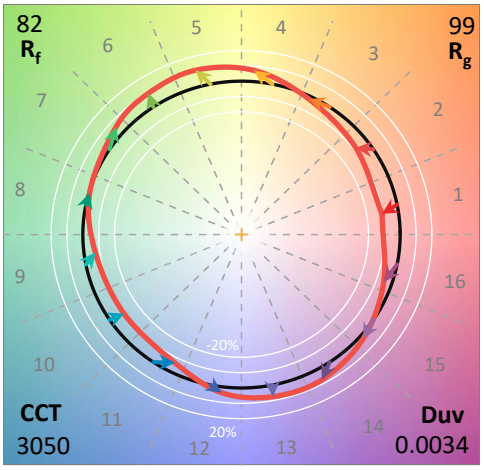
Test Information

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

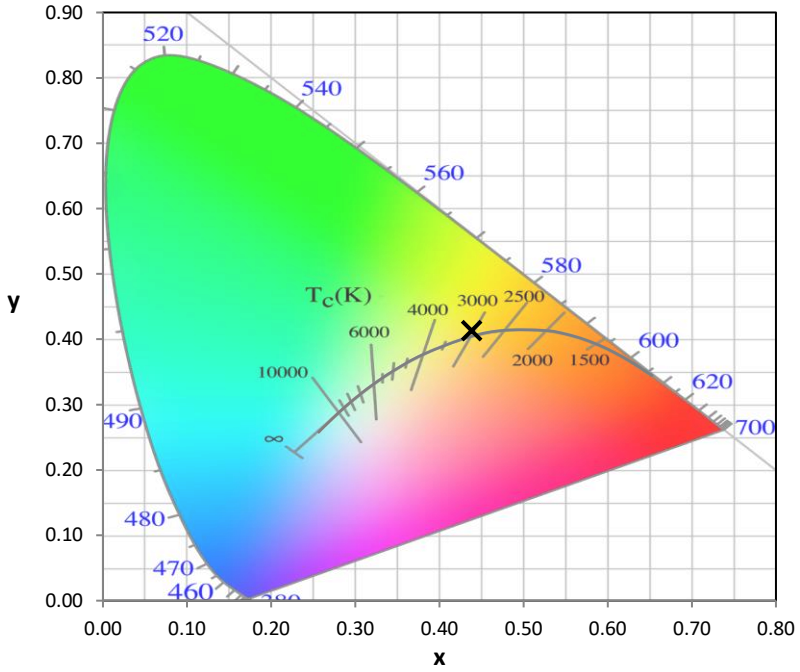
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

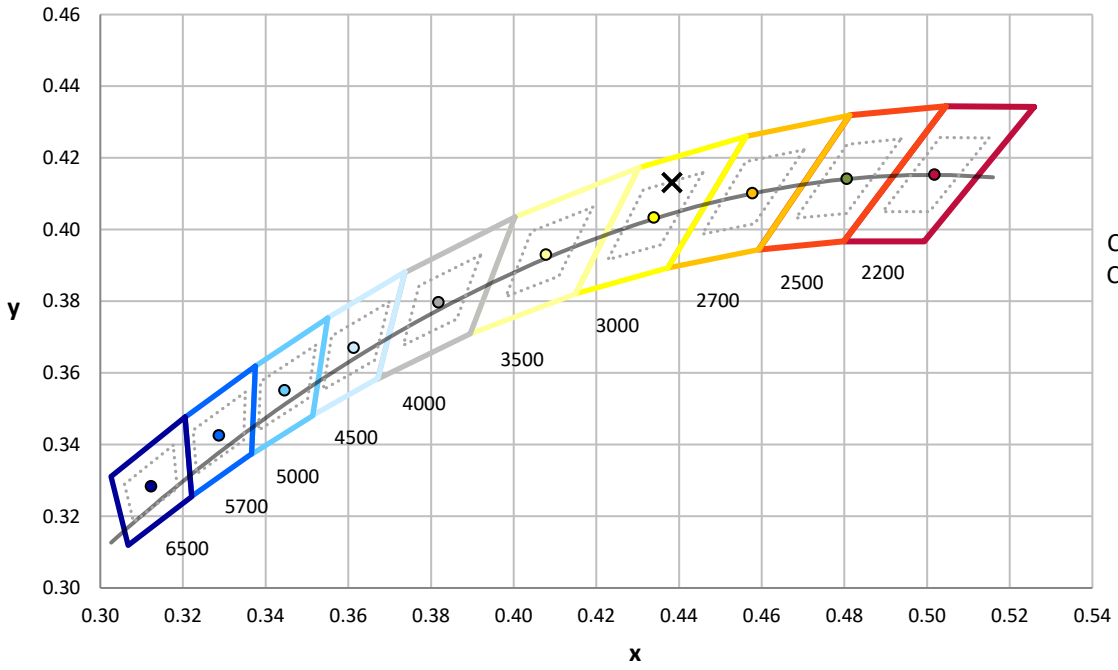
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

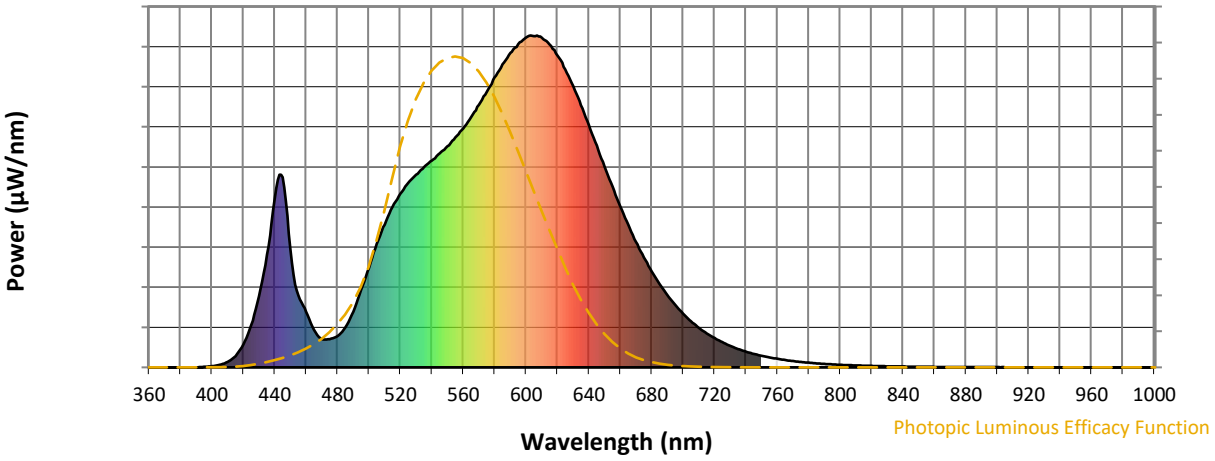


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

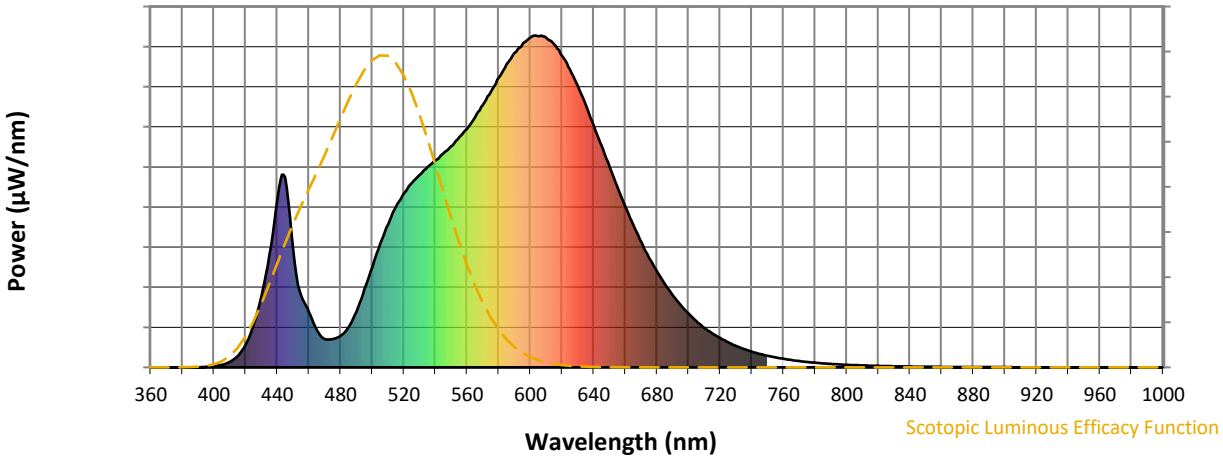


Photopic Lumens: NR

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

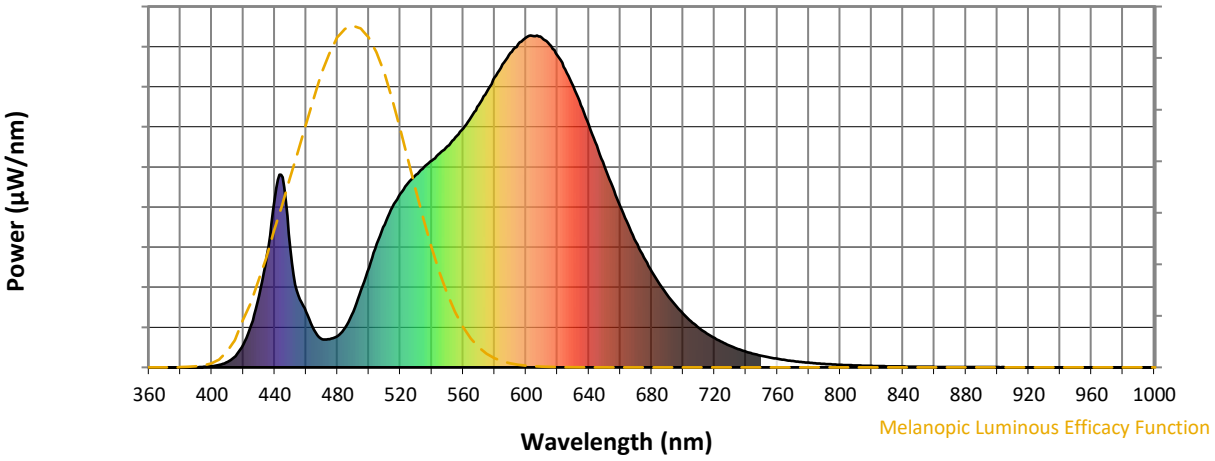


Scotopic Lumens: NR **S/P: 1.27**

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			

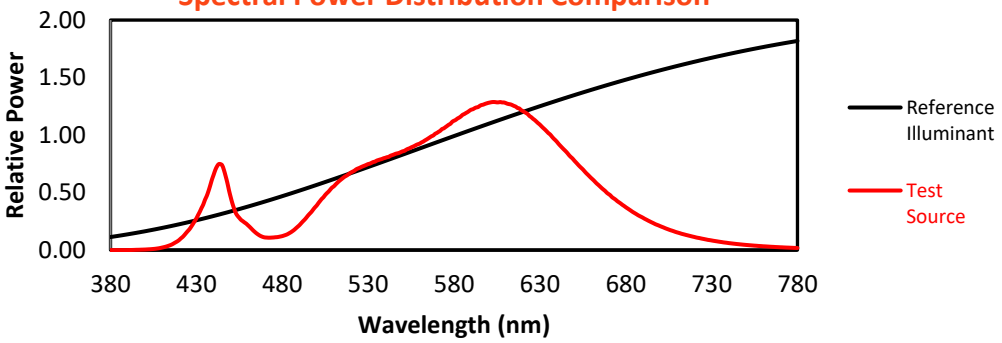
REPORT NUMBER: SP1-2408-195-9

TM-30-18

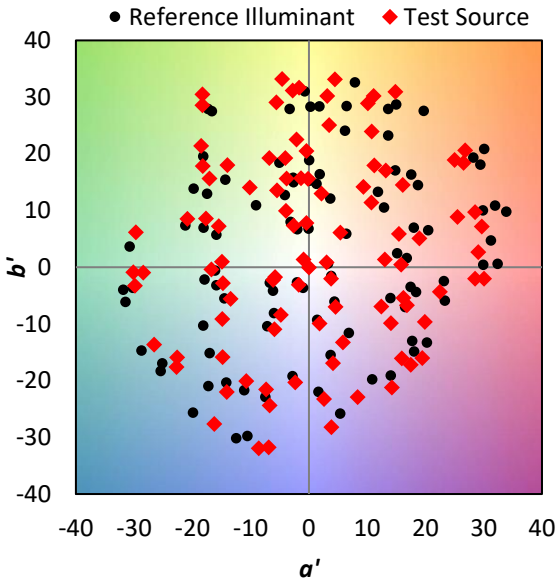
Summary

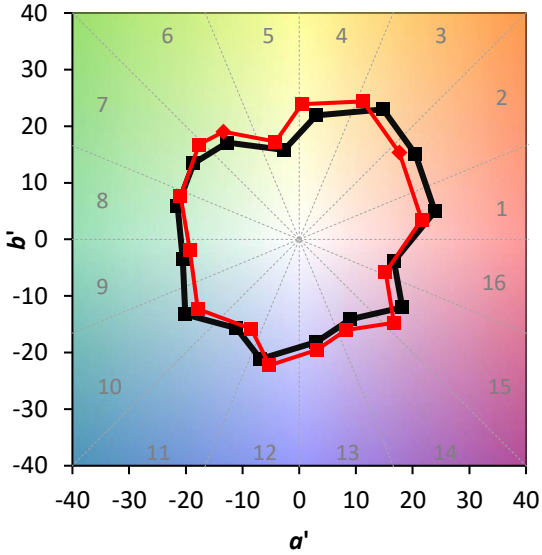
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

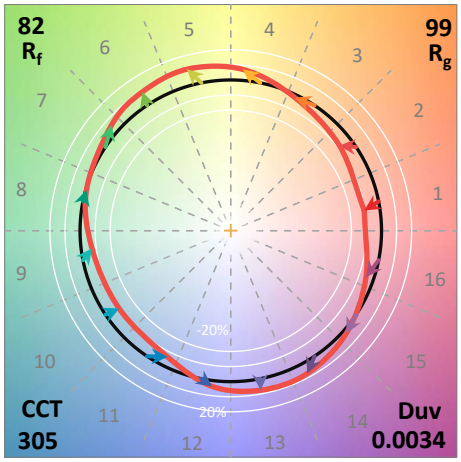
Spectral Power Distribution Comparison

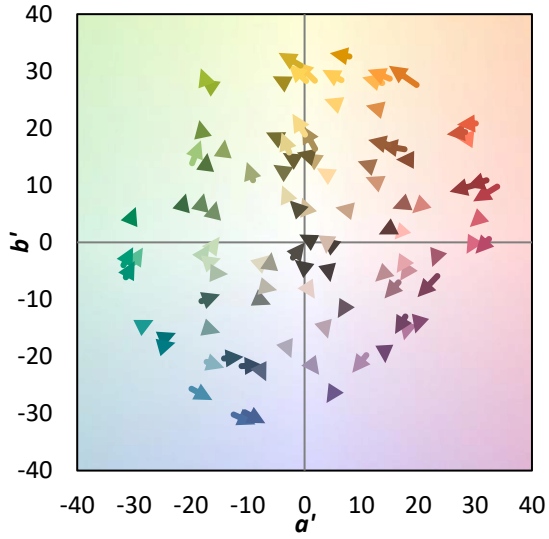


Color Vector Graphics







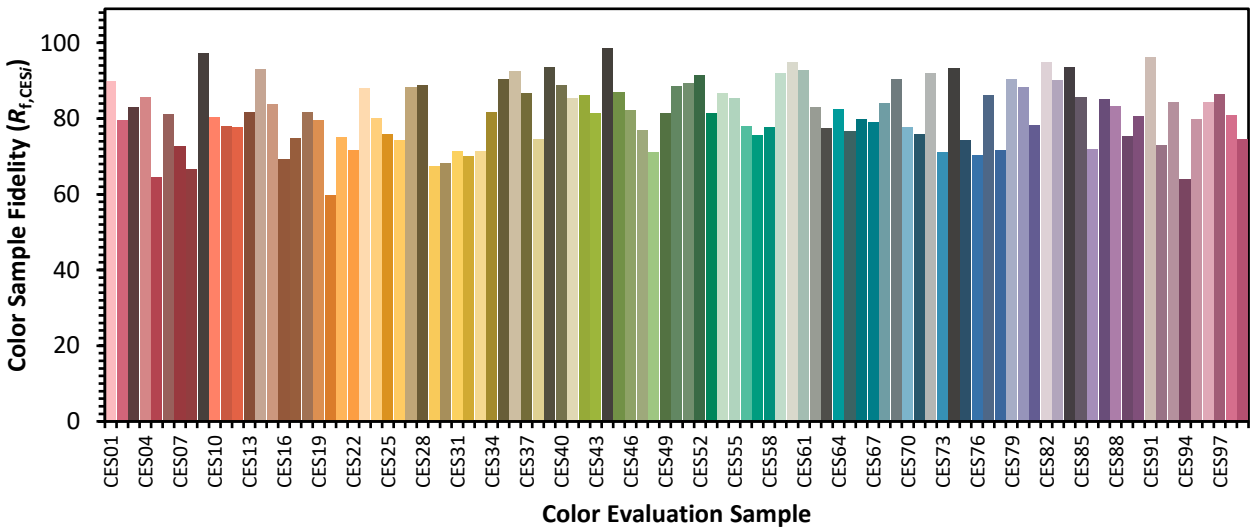


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

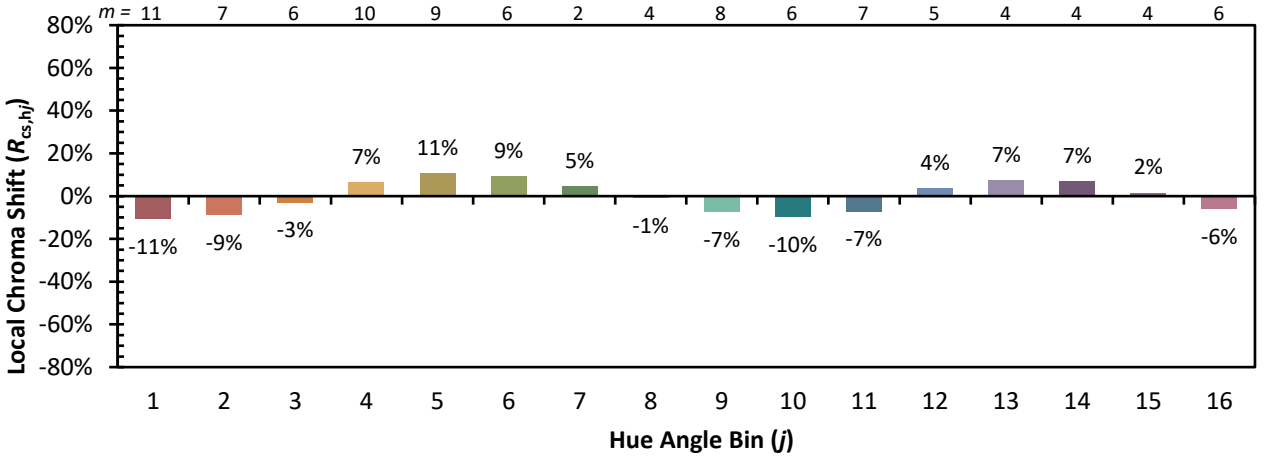
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

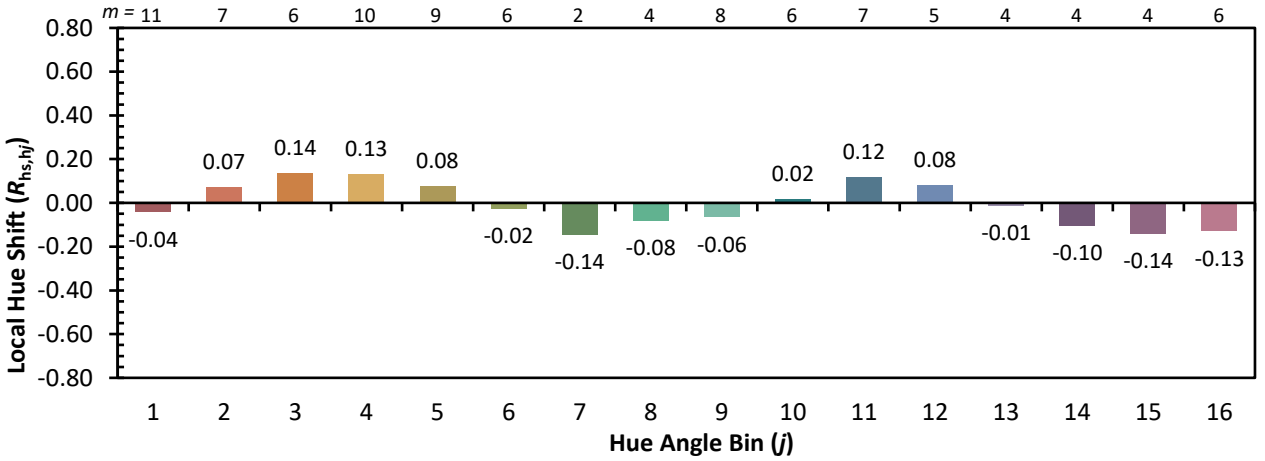


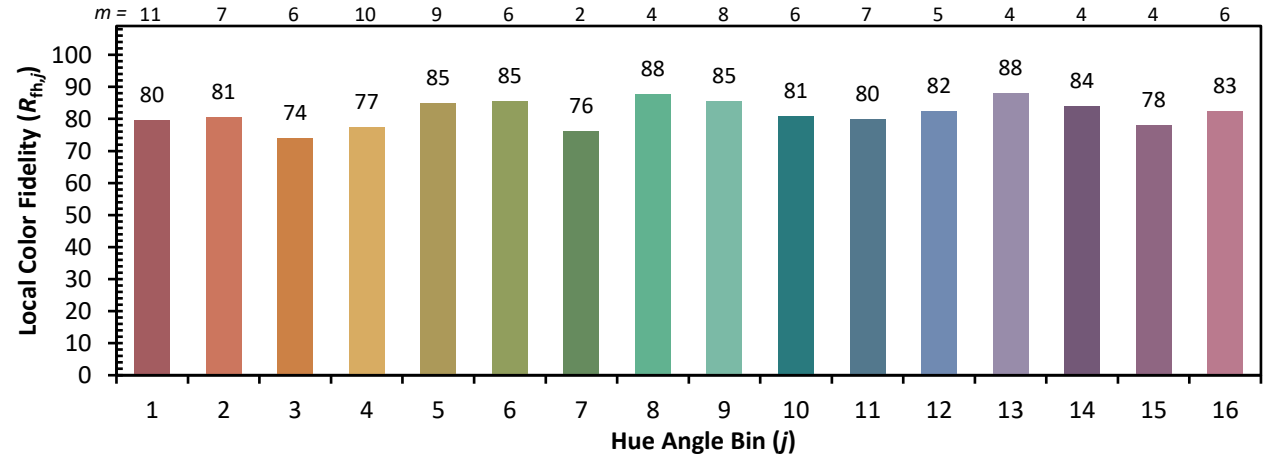
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



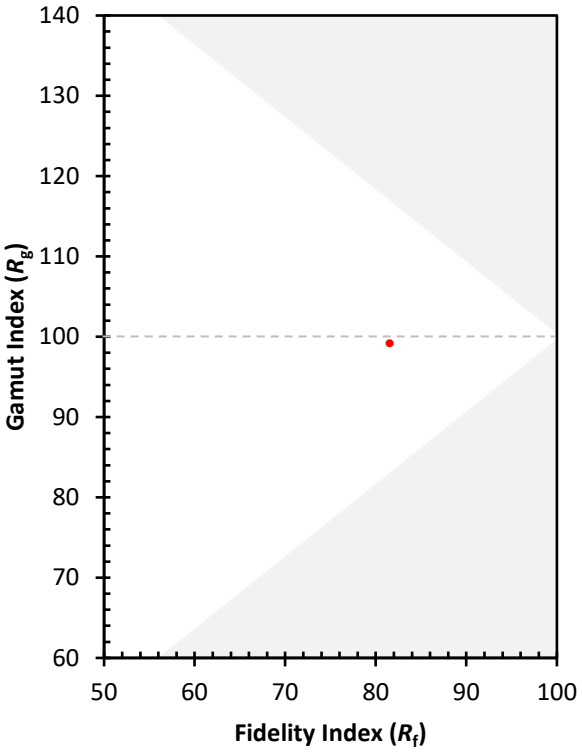


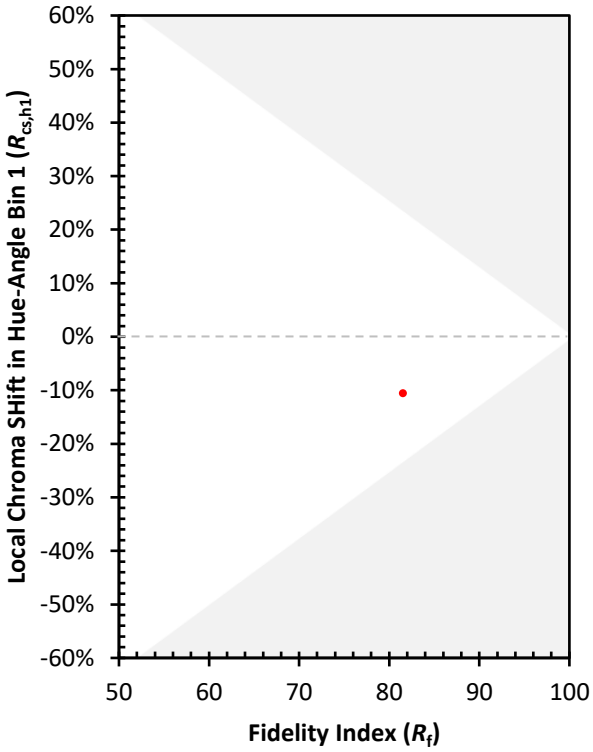


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)