

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: P319515

Luminaire Tested: **GLEON-SA1B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4658 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

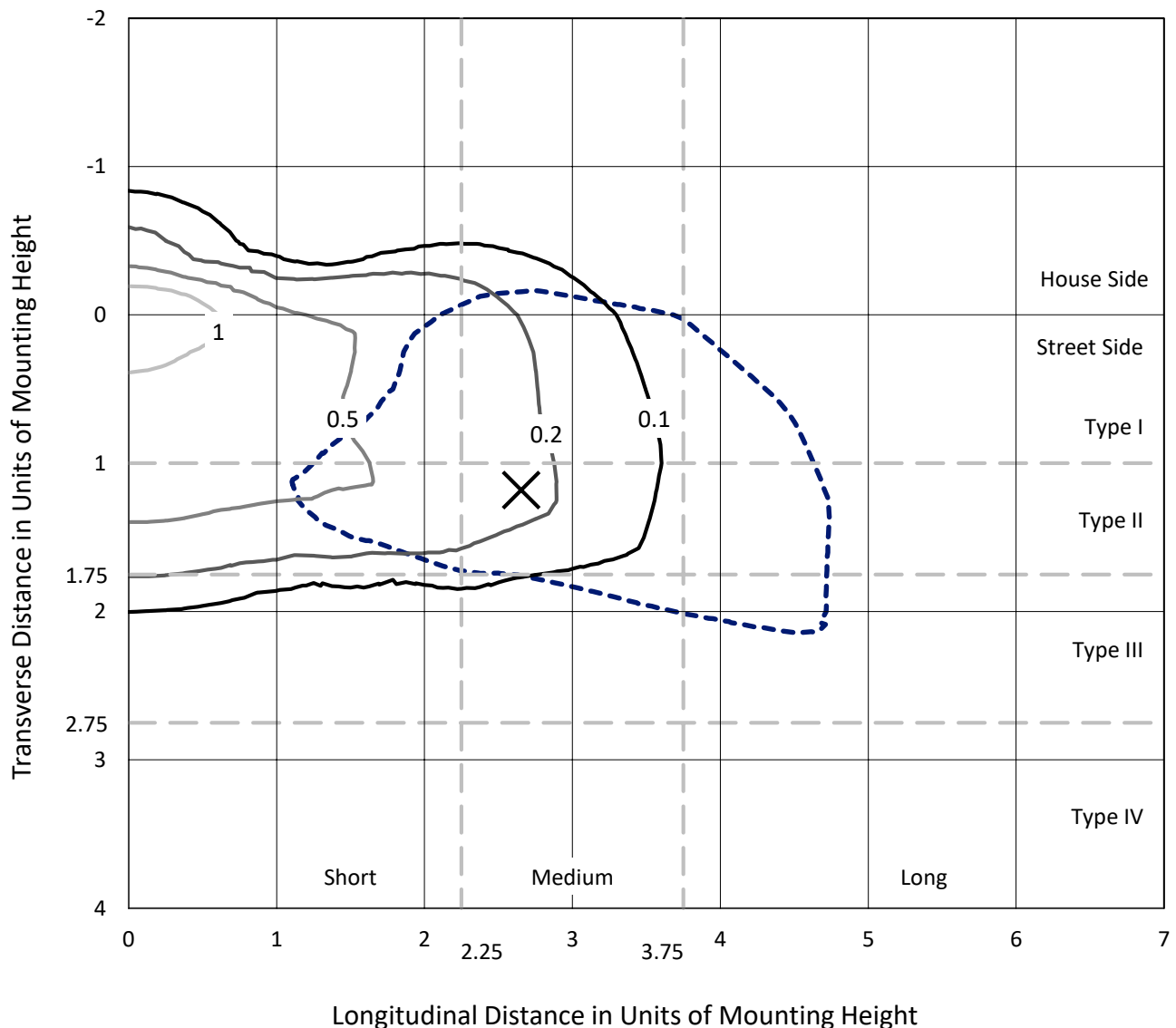
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

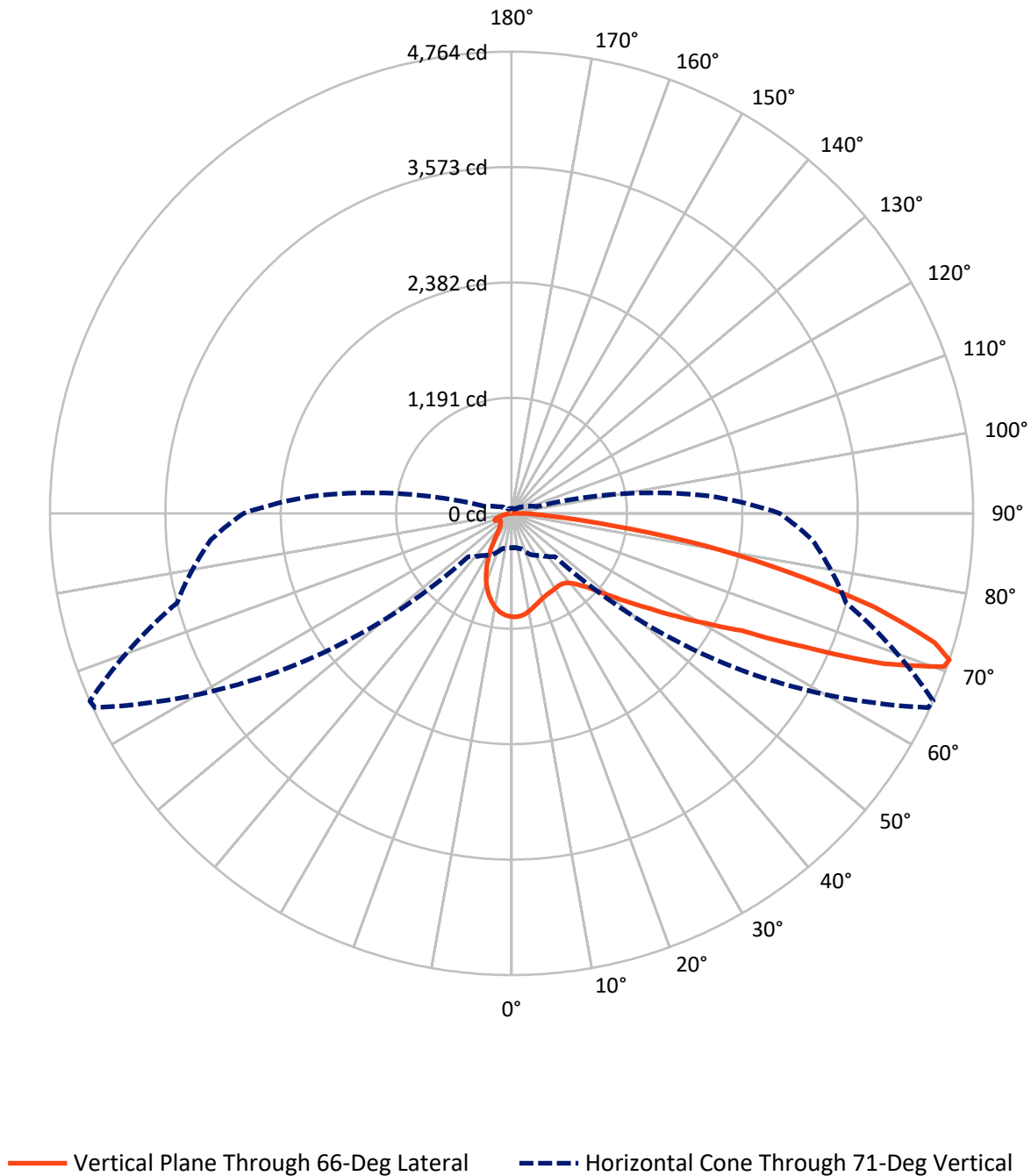
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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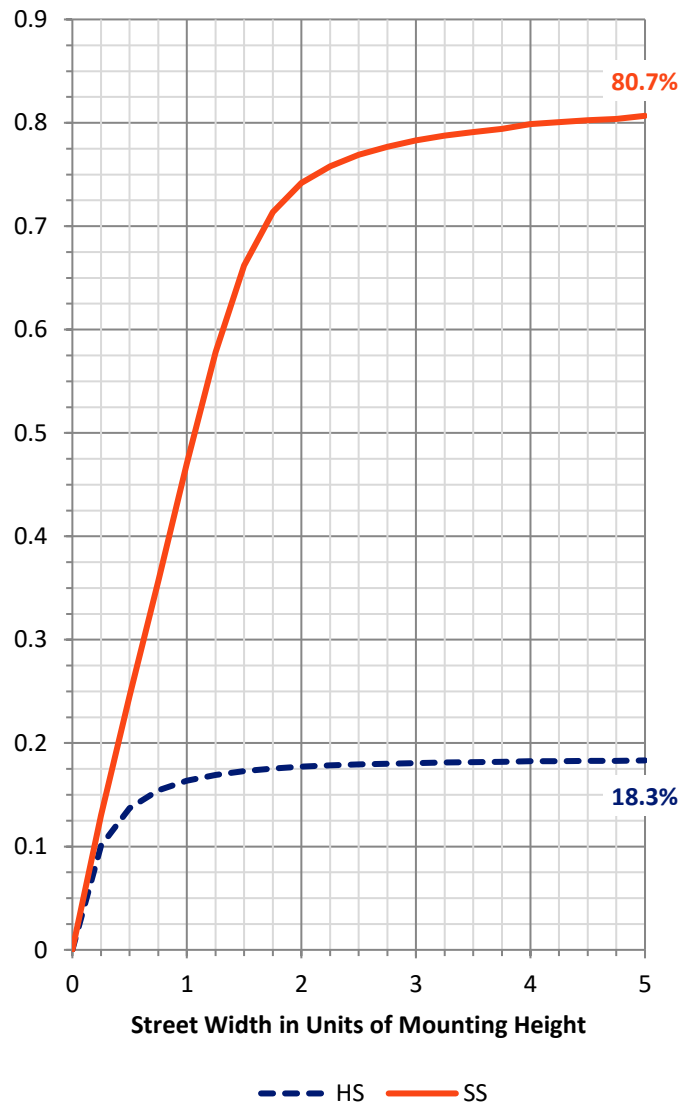
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.3	0.0	863.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3794.7	0.0	3794.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	4658.0	0.0	4658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	2.0
10°-20°	225.3	4.8
20°-30°	302.6	6.5
30°-40°	398.1	8.5
40°-50°	579.1	12.4
50°-60°	904.6	19.4
60°-70°	1133.1	24.3
70°-80°	864.3	18.6
80°-90°	157.0	3.4
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°	4658.0	100.0
0°-180°	4658.0	100.0

Coefficient of Utilization



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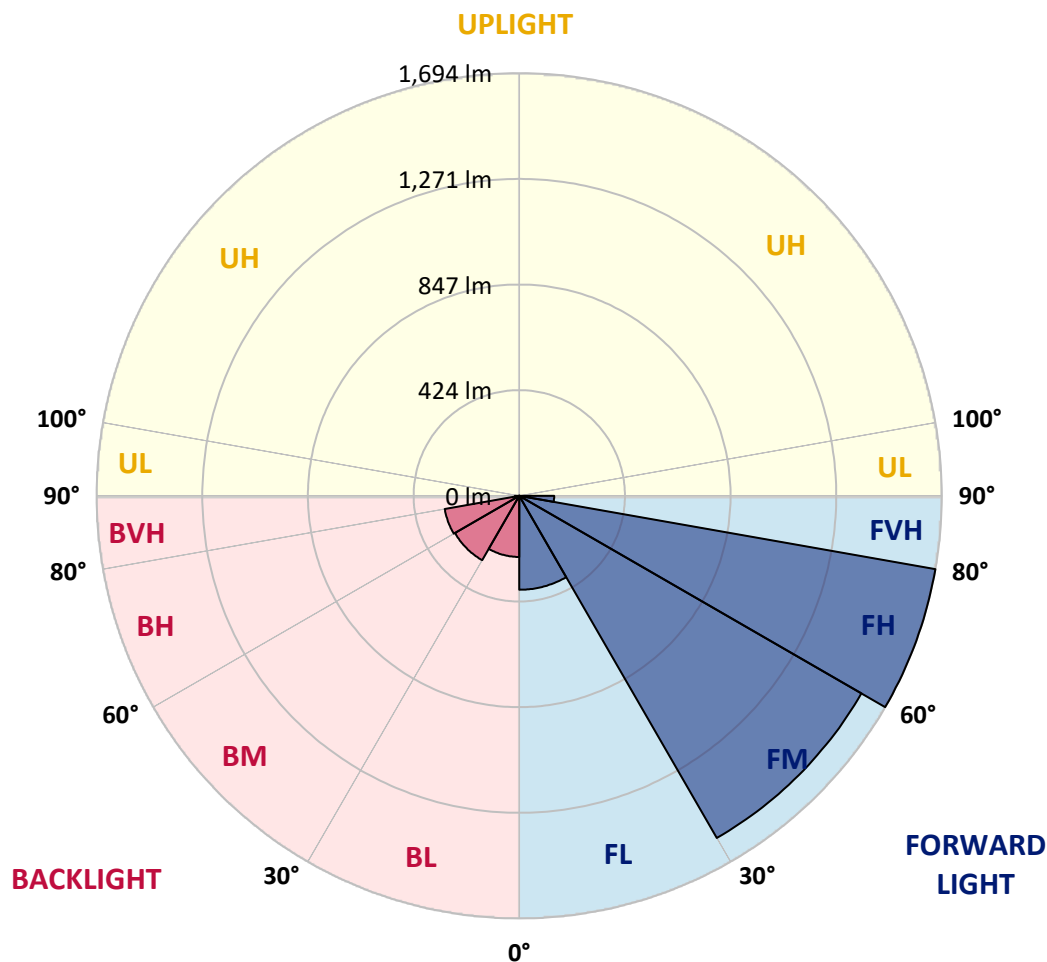
CATALOG NUMBER: GLEON-SA1B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.7	8.1			
FM	(30°-60°)	1584.0	34.0			
FH	(60°-80°)	1694.2	36.4			G1/1800
FVH	(80°-90°)	140.0	3.0			G2/225
BL	(0°-30°)	245.1	5.3	B1/500		
BM	(30°-60°)	297.8	6.4	B1/1000		
BH	(60°-80°)	303.3	6.5	B1/500		G1/500
BVH	(80°-90°)	17.0	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1047.3	1045.7	1050.5	1055.5	1057.4	1060.6	1065.4	1068.2	1068.0	1068.5	1066.9
5°	977.8	975.7	985.4	993.2	1008.4	1025.4	1046.2	1060.9	1061.3	1069.6	1071.9
7.5°	912.0	910.6	921.7	934.4	951.9	978.0	1011.6	1043.4	1045.3	1068.0	1075.9
10°	859.3	859.0	869.7	883.6	904.0	933.1	971.7	1018.3	1021.2	1060.3	1076.5
12.5°	818.1	818.7	828.1	843.8	865.4	895.8	937.6	990.2	994.8	1048.1	1072.8
15°	787.7	790.3	797.8	813.8	835.0	865.9	908.8	964.1	971.2	1034.4	1070.8
17.5°	770.3	773.2	778.5	791.7	811.7	841.4	882.1	942.7	949.2	1024.0	1070.9
20°	765.2	767.6	770.7	778.7	795.6	822.6	861.0	923.4	930.4	1015.6	1072.5
22.5°	775.3	777.1	777.4	776.8	787.1	809.1	845.8	909.3	916.7	1010.1	1073.7
25°	797.0	799.4	797.7	791.7	788.4	801.9	837.9	900.0	907.4	1006.1	1071.4
27.5°	829.7	830.0	828.6	820.8	804.9	802.7	835.5	894.5	901.6	1001.4	1066.7
30°	874.1	876.2	873.6	863.1	837.1	815.5	838.4	889.2	895.6	995.5	1059.2
32.5°	926.0	931.2	931.0	920.1	882.8	844.3	850.3	886.0	891.0	989.2	1050.0
35°	979.9	987.0	1000.2	995.5	949.3	889.8	873.1	891.1	894.5	988.4	1043.6
37.5°	1035.9	1042.9	1070.1	1082.7	1028.6	955.0	909.1	909.3	910.9	998.2	1043.1
40°	1094.4	1102.0	1142.8	1175.5	1131.4	1037.5	967.2	947.2	945.5	1022.3	1052.6
42.5°	1176.4	1183.2	1232.2	1273.9	1245.4	1143.1	1047.4	1005.8	1002.1	1069.6	1083.0
45°	1280.1	1285.9	1338.0	1382.6	1368.0	1263.7	1148.3	1086.4	1085.7	1148.4	1144.6
47.5°	1403.5	1408.0	1454.8	1497.9	1503.2	1402.5	1275.0	1210.7	1200.2	1256.5	1239.9
50°	1532.0	1537.0	1568.8	1615.1	1654.5	1588.3	1438.1	1363.0	1349.0	1399.2	1375.0
52.5°	1617.1	1623.7	1651.3	1710.0	1824.7	1791.9	1630.9	1547.6	1526.4	1572.0	1553.5
55°	1579.1	1593.9	1636.2	1730.3	1960.7	2102.9	1868.8	1762.9	1739.0	1776.9	1766.0
57.5°	1406.6	1426.8	1484.6	1629.8	1979.9	2377.0	2228.4	2016.6	1999.7	1988.7	1993.7
60°	1091.2	1110.6	1182.2	1371.5	1846.6	2577.0	2769.5	2329.2	2304.7	2201.3	2205.8
62.5°	772.3	762.5	811.5	950.0	1500.5	2600.5	3385.3	2747.3	2666.9	2425.8	2406.1
65°	588.9	586.7	608.7	652.8	908.8	2319.5	3752.2	3450.1	3324.5	2689.9	2643.3
67.5°	483.9	479.9	501.6	565.8	585.2	1496.5	3760.2	4265.5	4142.1	3018.6	2917.6
70°	397.9	393.4	413.6	496.5	540.8	758.9	3164.7	4743.0	4736.4	3434.8	3124.8
71°	356.7	353.5	377.8	469.8	531.4	632.5	2732.4	4744.3	4764.0	3575.7	3112.6
72.5°	290.4	291.6	317.3	418.1	524.3	558.5	2008.2	4523.1	4564.9	3710.0	3001.4
75°	193.0	194.0	227.7	321.6	508.4	546.5	1103.7	3795.4	3872.3	3629.6	2738.8
77.5°	129.6	129.3	152.3	220.6	442.9	546.5	647.1	2838.7	2923.1	2888.1	2111.4
80°	89.3	88.6	104.9	152.3	335.3	553.1	500.3	1989.4	2014.9	1559.7	858.1
82.5°	54.7	55.2	68.5	107.6	228.2	497.7	472.3	1084.7	1056.9	437.4	214.4
85°	31.4	31.2	43.7	72.9	146.5	420.1	460.6	466.9	428.3	131.7	77.5
87.5°	11.3	12.1	23.5	40.4	83.9	292.5	390.8	242.8	218.9	59.5	35.1
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: GLEON-SA1B-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1065.8	1066.7	1065.6	1059.2	1053.7	1044.9	1039.9	1033.0	1030.9	1029.9	1032.5
5°	1069.8	1070.1	1060.6	1043.7	1024.8	1002.4	986.3	966.5	957.2	953.2	955.8
7.5°	1073.5	1072.0	1051.3	1019.0	983.9	945.0	910.4	878.7	860.2	852.7	853.3
10°	1074.0	1067.9	1034.6	984.6	930.2	873.1	820.0	771.1	740.3	720.2	726.3
12.5°	1069.0	1058.7	1010.0	940.0	864.6	786.7	715.0	641.7	597.6	577.2	577.8
15°	1065.1	1046.5	979.7	887.6	786.3	683.2	585.2	499.0	452.1	431.2	421.4
17.5°	1061.9	1033.3	944.7	828.6	693.8	563.0	445.3	368.4	342.7	336.6	334.0
20°	1057.4	1019.3	905.6	760.2	588.4	428.6	325.2	287.2	287.4	294.5	295.4
22.5°	1051.1	1003.4	863.9	683.5	475.4	312.2	254.9	244.0	255.1	268.6	271.0
25°	1041.8	984.6	817.6	598.7	362.5	239.9	217.8	217.3	230.8	244.9	247.0
27.5°	1028.6	959.9	766.2	507.7	267.1	203.9	195.1	198.5	208.4	218.7	219.5
30°	1010.9	931.3	709.4	411.7	209.4	181.6	180.6	183.7	189.8	197.0	197.7
32.5°	991.5	902.2	648.8	318.8	179.3	169.5	170.5	171.9	174.8	177.7	178.4
35°	973.8	872.5	586.7	242.2	165.0	161.6	161.0	160.7	161.0	160.0	160.2
37.5°	962.4	847.9	522.0	192.8	156.8	154.7	152.8	150.4	147.6	146.0	146.3
40°	958.2	829.5	456.6	166.6	150.0	148.6	144.9	139.8	136.5	135.6	135.6
42.5°	969.4	820.0	393.4	153.4	144.4	142.0	135.9	129.9	127.5	127.4	127.2
45°	1003.9	823.9	333.2	146.2	139.3	134.6	126.6	121.6	120.0	120.3	120.1
47.5°	1065.6	848.2	281.8	141.4	134.1	128.0	119.0	115.0	113.1	113.1	113.2
50°	1170.6	904.9	240.8	137.3	129.8	121.9	113.5	108.6	106.0	105.8	105.8
52.5°	1323.6	1006.6	215.2	134.0	125.0	116.4	108.1	101.8	98.7	98.1	97.8
55°	1515.3	1152.3	208.1	131.7	118.5	110.5	101.5	95.2	91.8	90.4	90.2
57.5°	1729.6	1329.5	222.1	129.0	111.9	103.4	94.2	88.3	84.8	83.0	82.8
60°	1946.6	1523.0	279.2	125.1	106.5	95.7	86.8	81.4	77.8	75.9	75.6
62.5°	2163.9	1726.9	395.8	124.8	102.6	88.3	79.3	74.6	71.2	69.2	68.7
65°	2409.0	1950.1	528.3	133.3	101.3	81.5	71.6	67.9	65.0	63.0	62.9
67.5°	2690.4	2202.1	515.6	150.9	105.7	75.4	64.3	61.4	59.3	57.7	57.6
70°	2822.4	2162.7	320.5	163.2	111.8	69.5	57.4	55.3	53.7	52.6	52.1
71°	2767.1	2053.5	268.7	161.8	111.1	66.9	54.7	53.1	51.5	50.5	50.0
72.5°	2616.3	1872.8	224.2	150.5	103.9	62.2	51.1	49.5	48.1	47.0	46.6
75°	2347.7	1672.6	179.5	120.3	82.8	52.6	44.9	43.1	42.0	41.3	40.7
77.5°	1725.8	1193.6	138.8	95.0	61.0	42.9	38.3	37.0	35.9	34.9	34.4
80°	661.1	462.4	93.4	70.9	44.7	33.9	30.9	30.2	29.1	28.5	28.5
82.5°	178.0	138.1	49.9	42.9	29.9	24.8	23.6	23.3	22.4	21.1	21.2
85°	72.0	61.0	28.0	23.6	18.3	14.6	15.9	16.1	15.0	13.3	13.5
87.5°	31.7	25.9	15.6	10.5	8.0	5.6	7.2	7.2	6.6	5.5	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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.

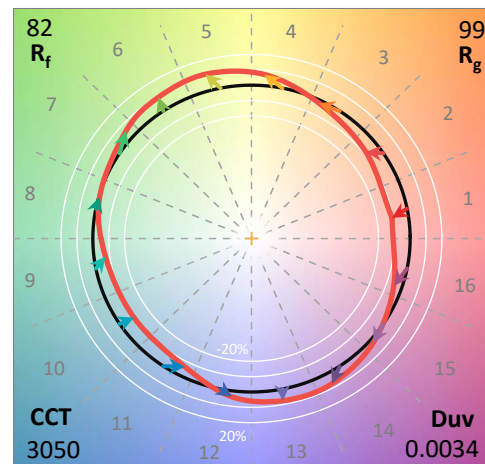
Test Information

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
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

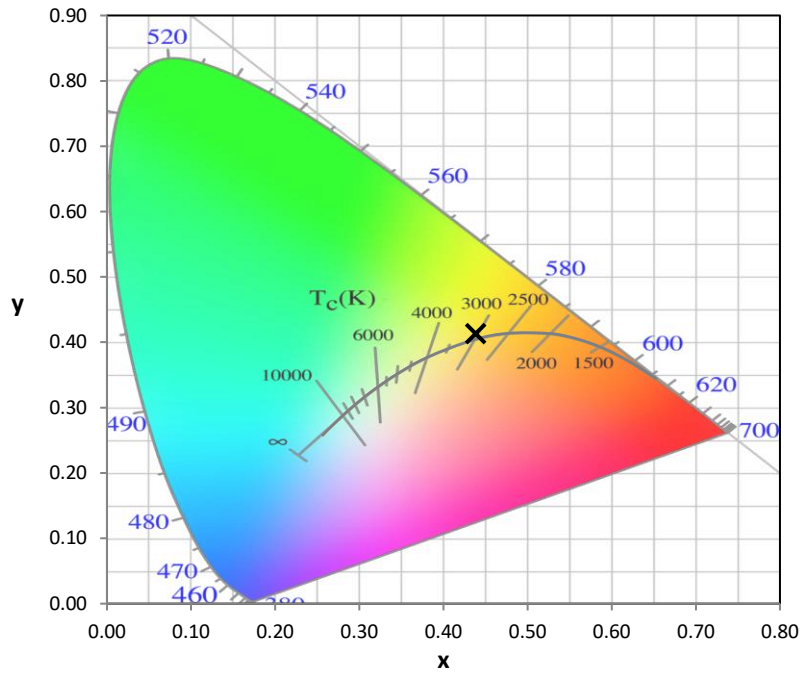
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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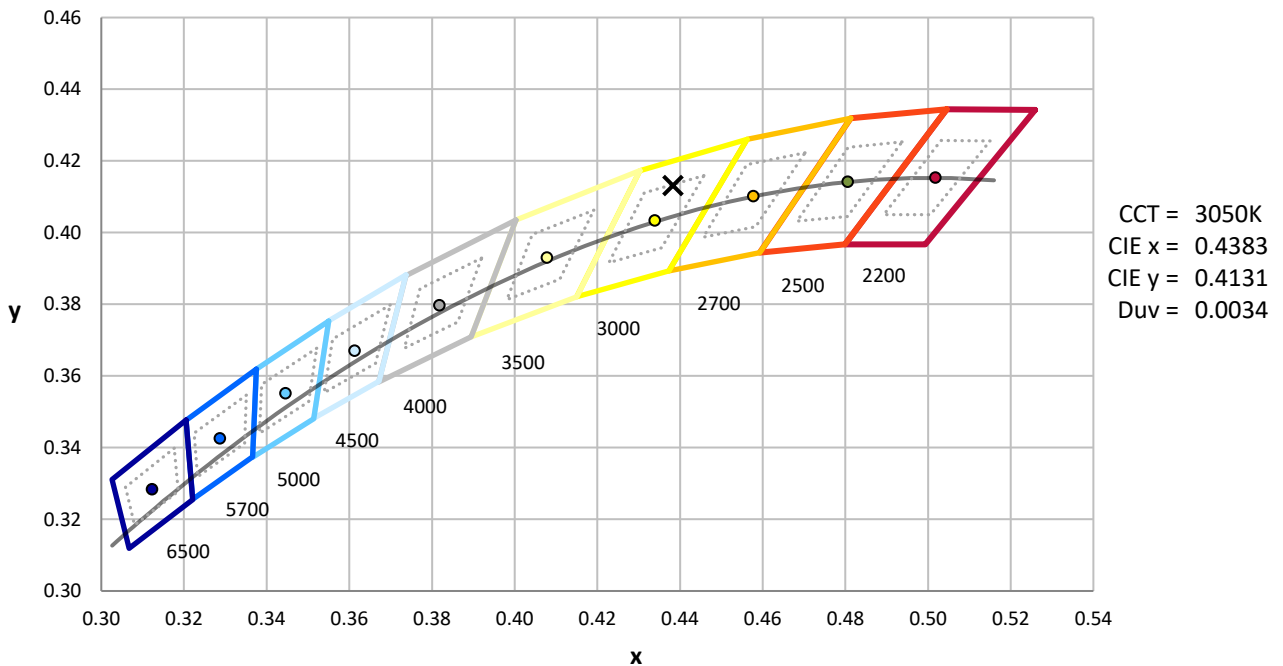
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



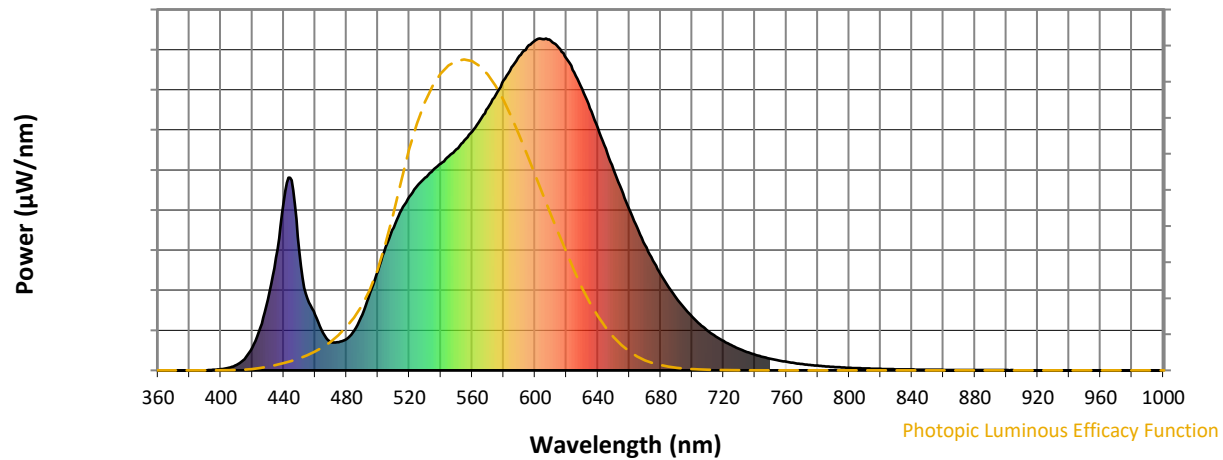
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

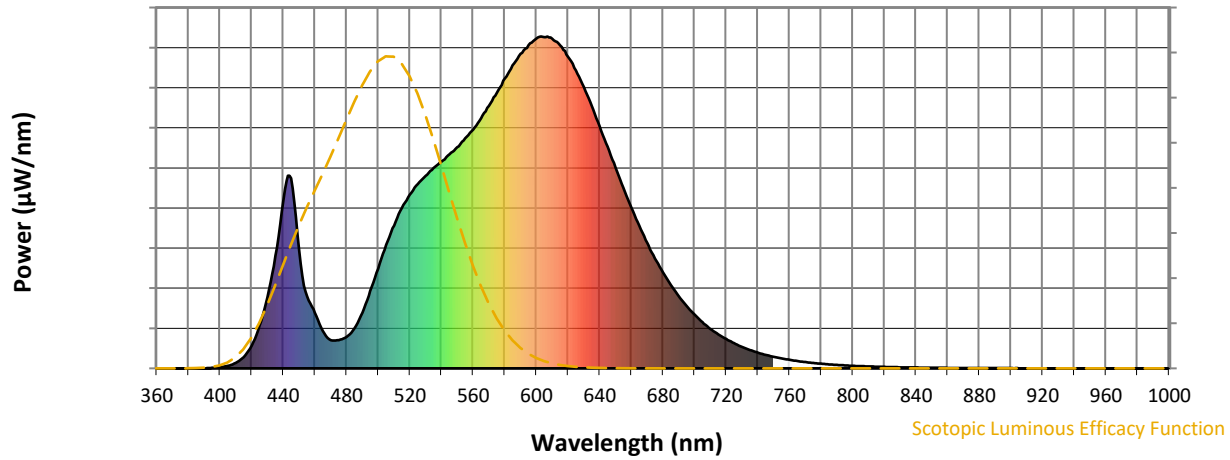


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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			

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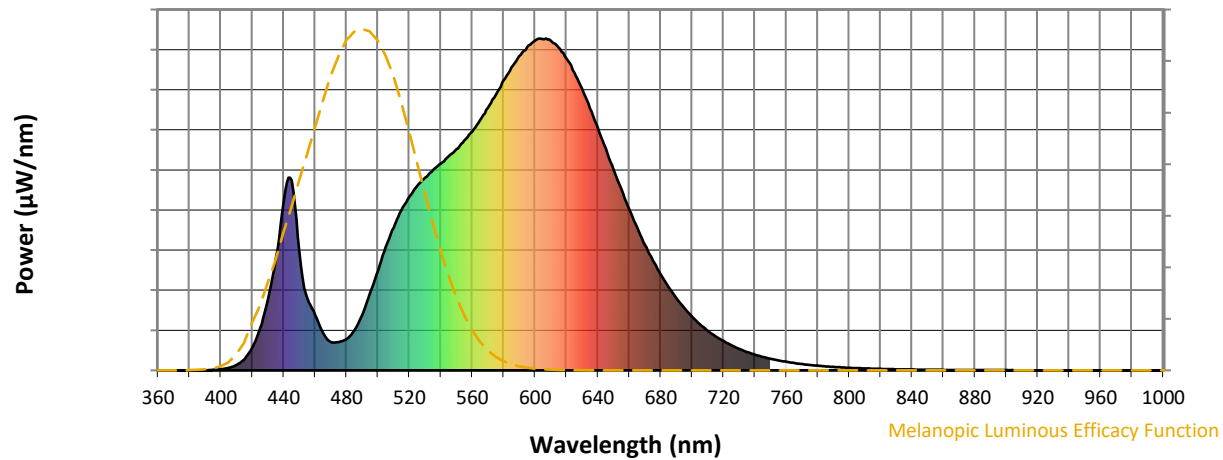
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

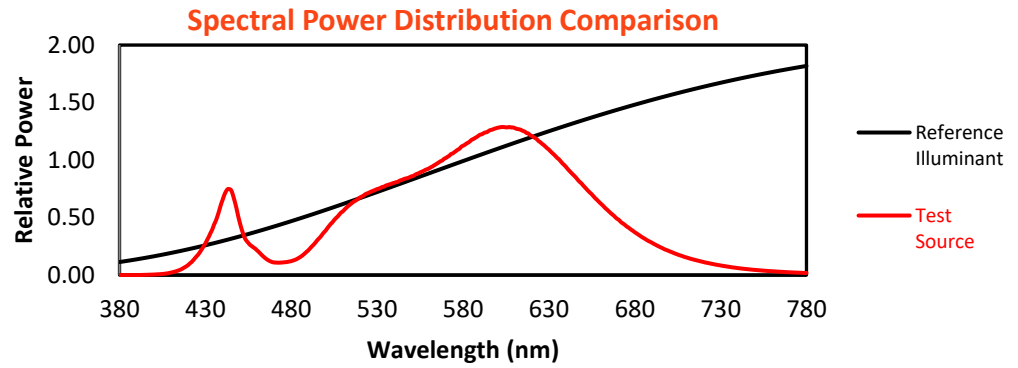
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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			

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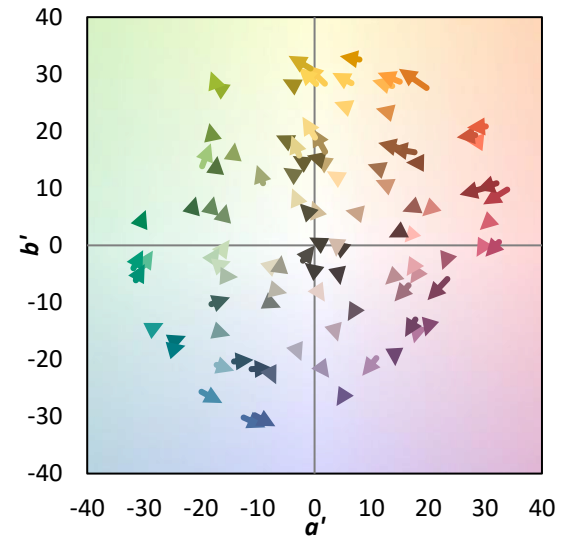
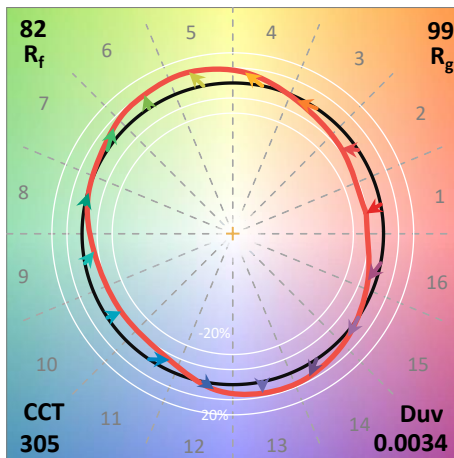
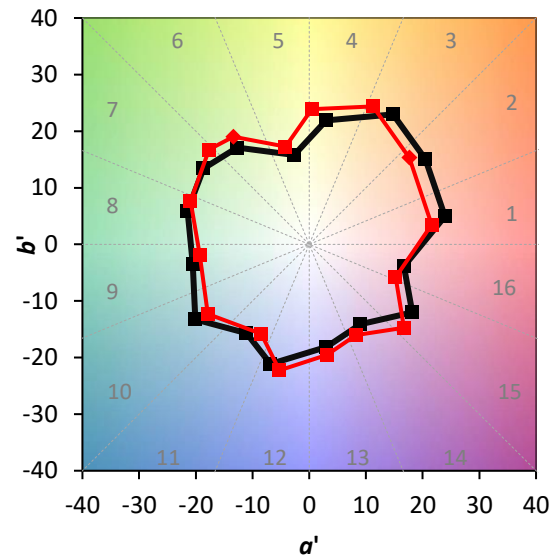
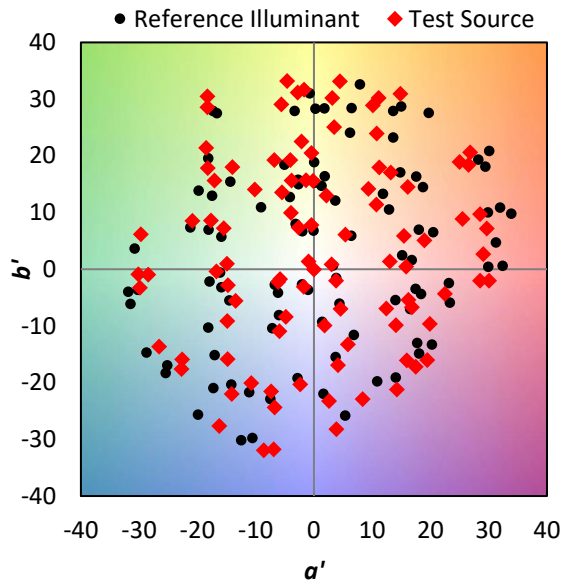
TM-30-18

Summary

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

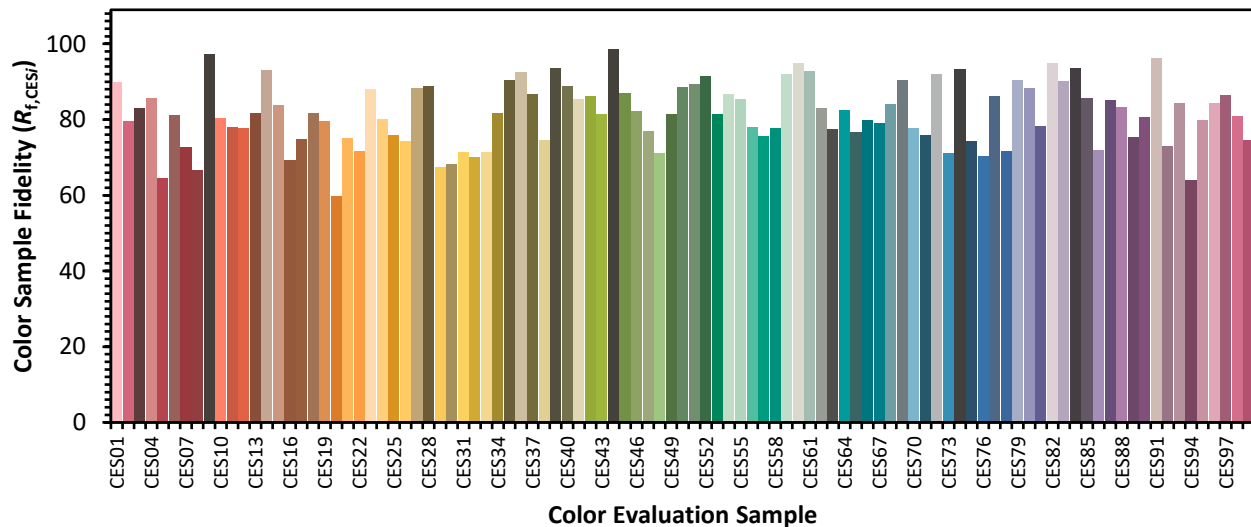


Color Vector Graphics

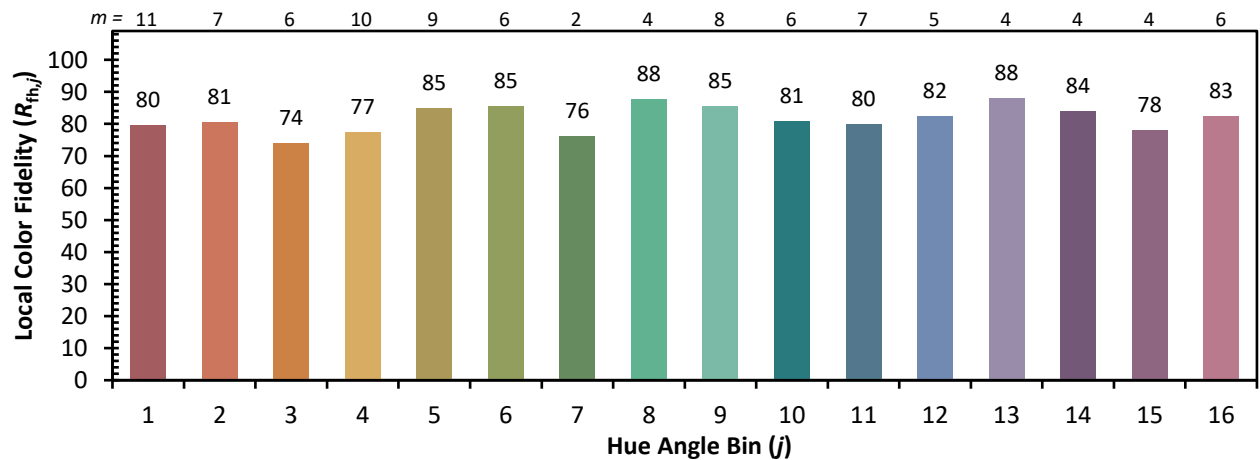
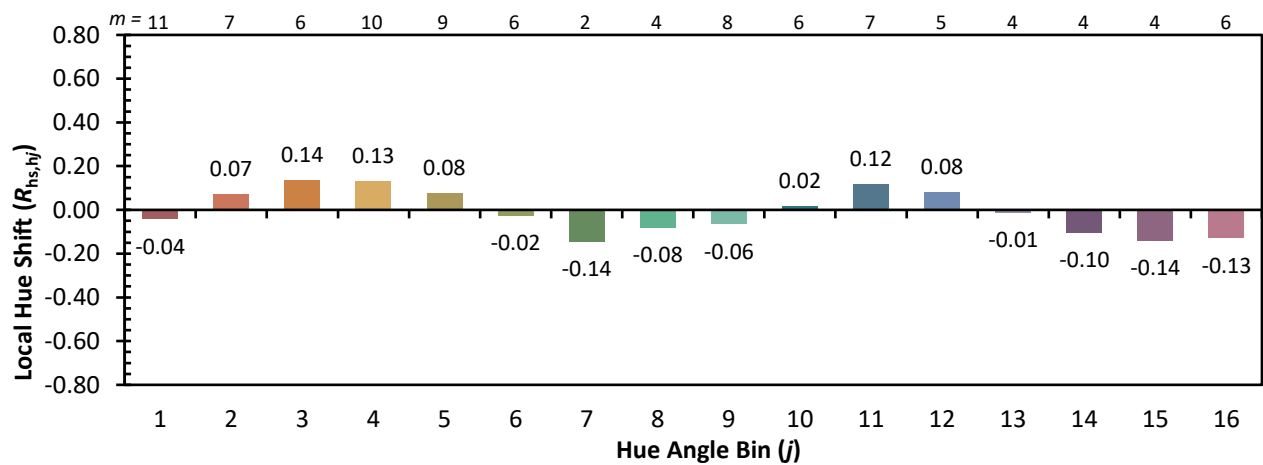
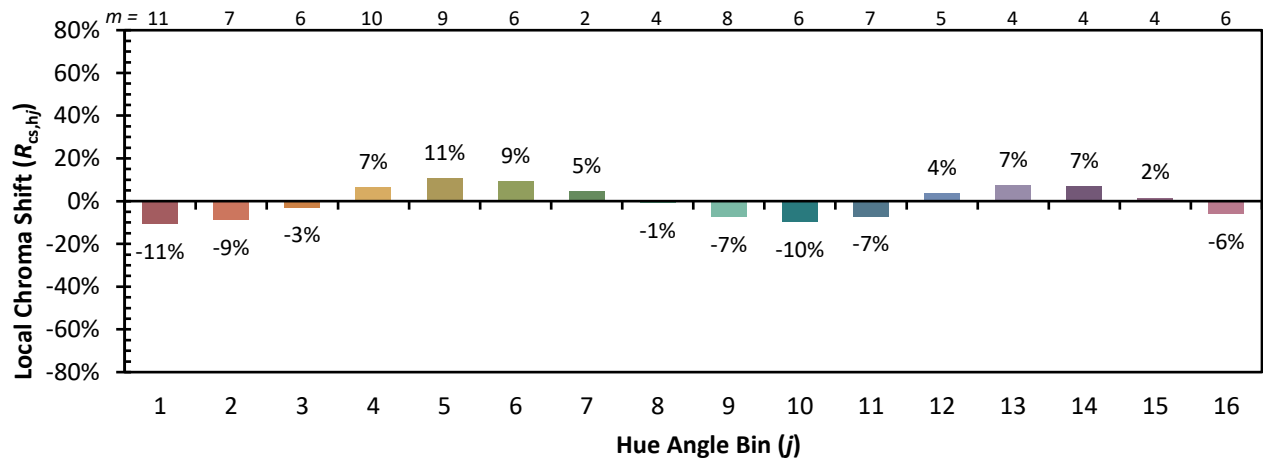


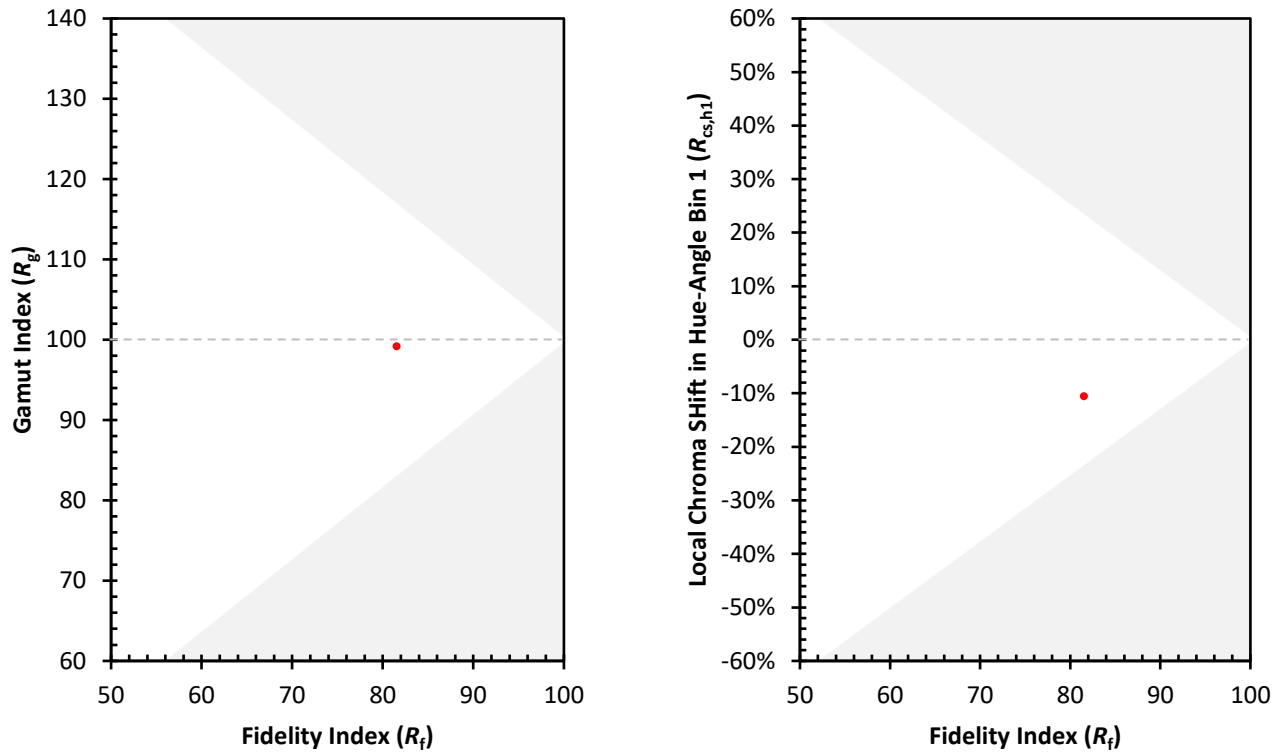
Individual Sample Fidelity Index ($R_{f,i}$)

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	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)