

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: P318233

Luminaire Tested: **GLEON-SA9A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32488 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

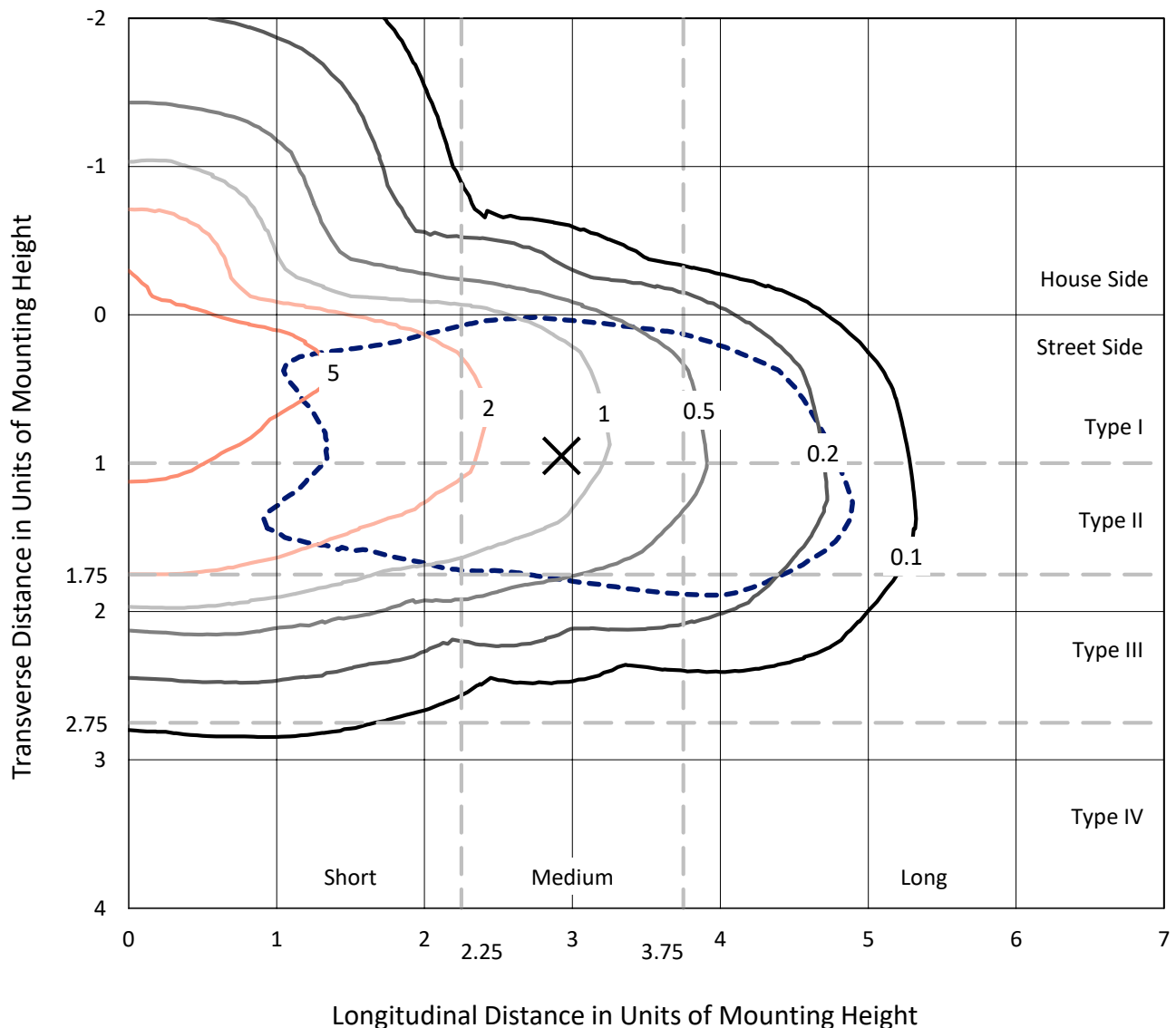
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

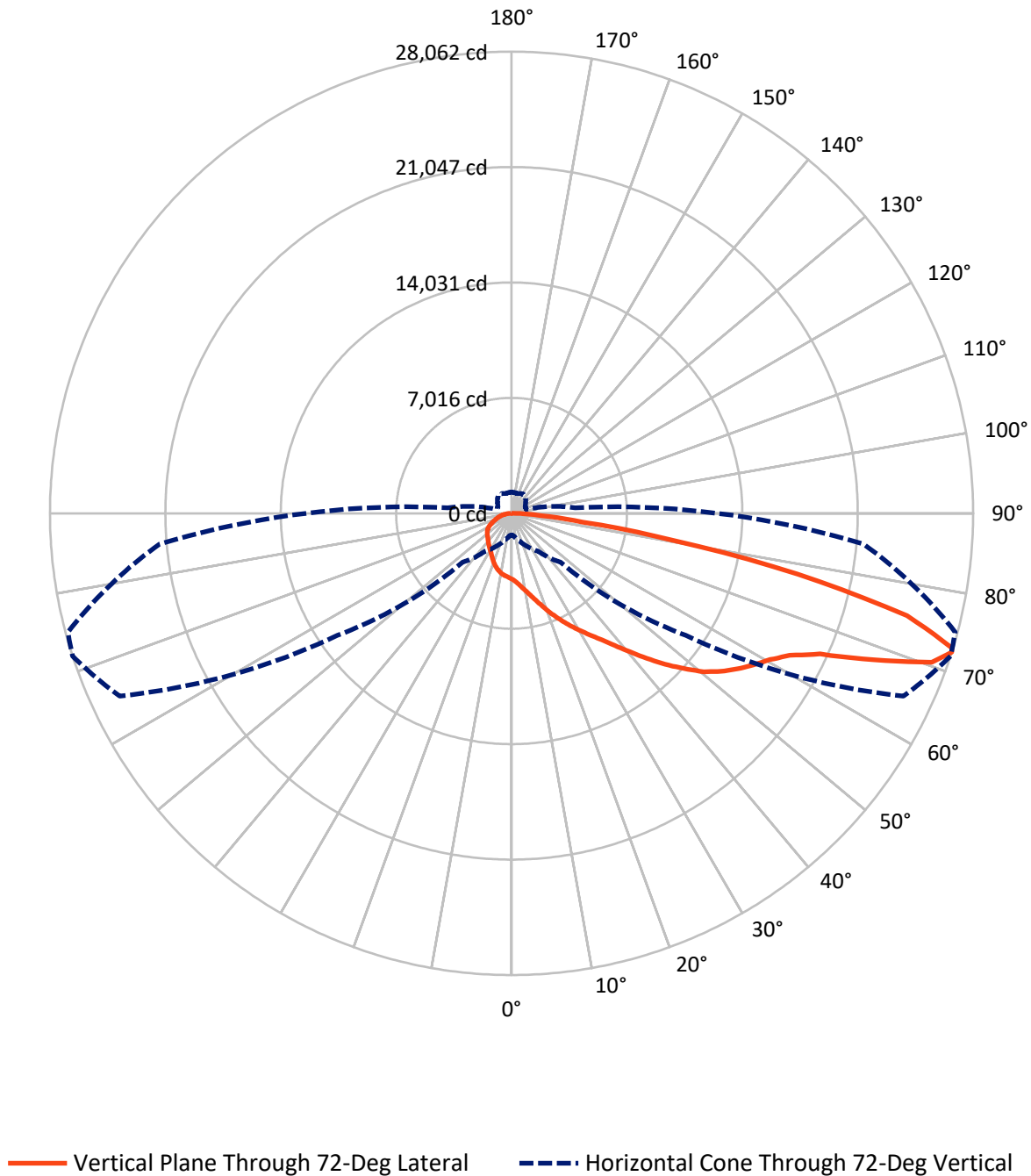
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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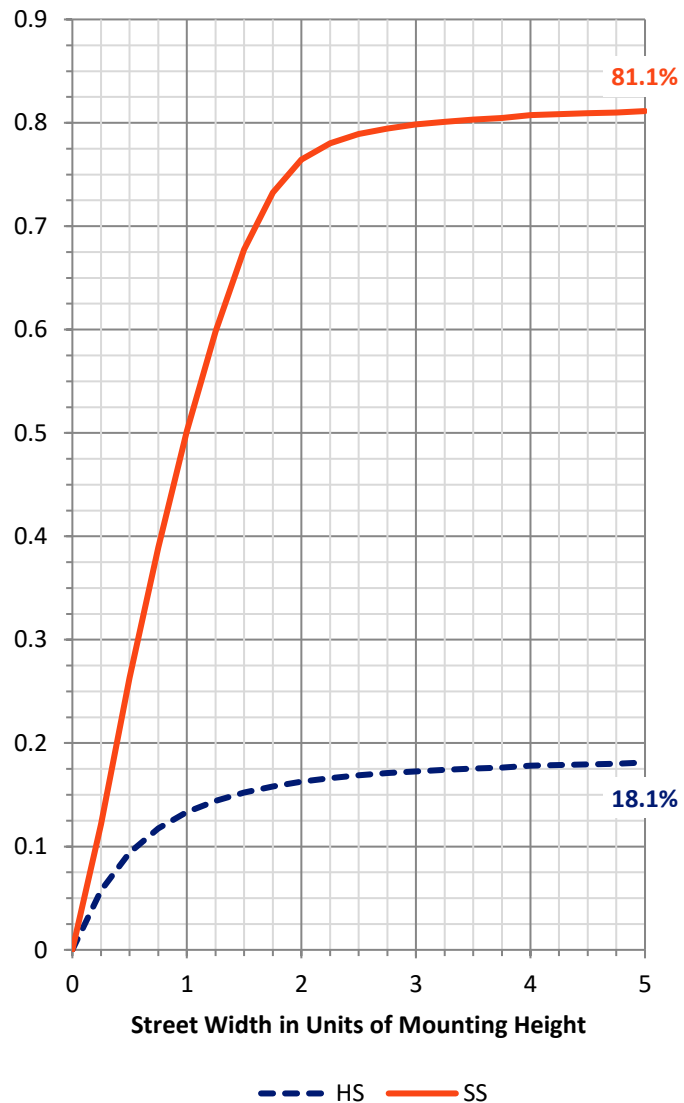
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6026.7	0.0	6026.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26461.3	0.0	26461.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	32488.0	0.0	32488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.5	1.2
10°-20°	1294.2	4.0
20°-30°	2267.9	7.0
30°-40°	3362.5	10.4
40°-50°	4918.0	15.1
50°-60°	6767.1	20.8
60°-70°	7533.8	23.2
70°-80°	5104.9	15.7
80°-90°	839.0	2.6
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°	32488.0	100.0
0°-180°	32488.0	100.0

Coefficient of Utilization



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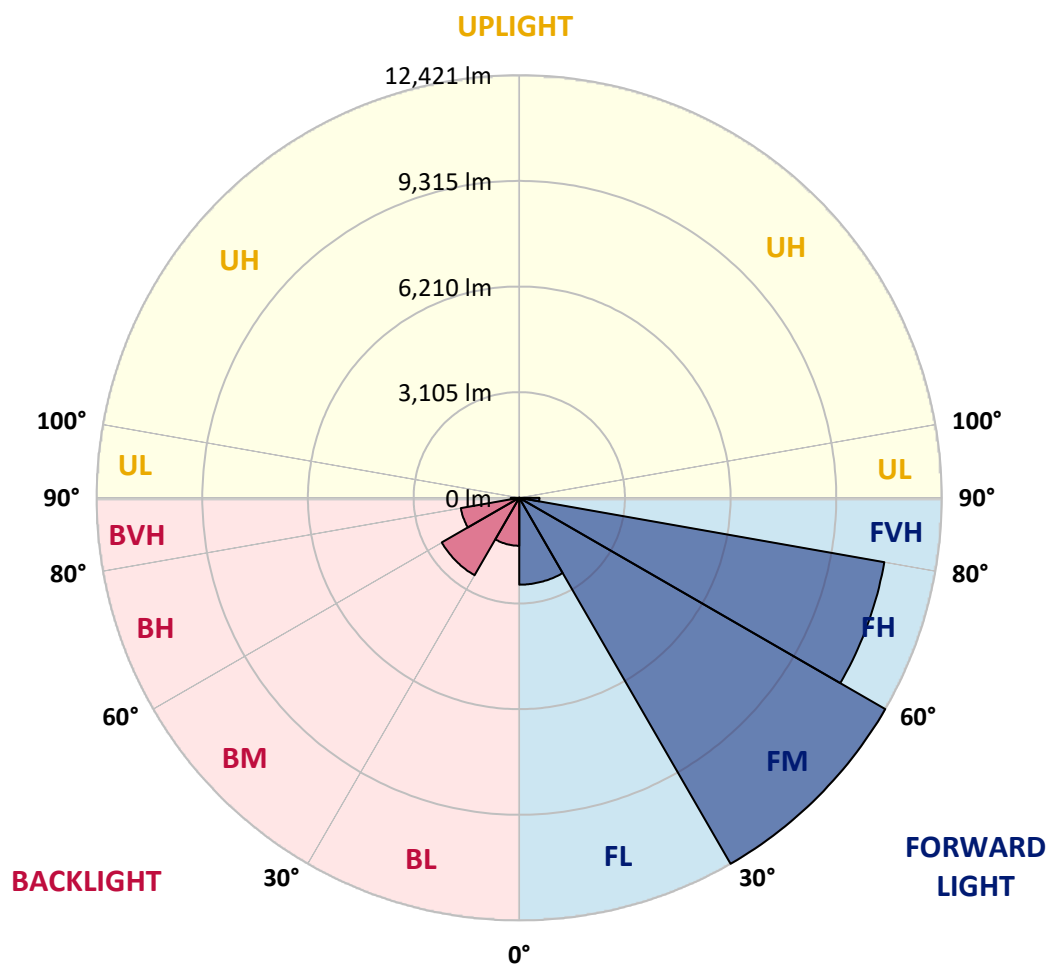
CATALOG NUMBER: GLEON-SA9A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2553.7	7.9			
FM	(30°-60°)	12420.6	38.2			
FH	(60°-80°)	10895.1	33.5			G4/12000
FVH	(80°-90°)	591.8	1.8			G4/750
BL	(0°-30°)	1408.8	4.3	B3/2500		
BM	(30°-60°)	2627.1	8.1	B3/5000		
BH	(60°-80°)	1743.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	247.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9
2.5°	4415.2	4408.5	4385.0	4385.0	4340.3	4302.3	4230.7	4182.6	4125.5	4105.4	4038.3
5°	4842.6	4844.8	4815.7	4795.6	4729.6	4649.0	4527.1	4416.4	4305.6	4260.9	4123.3
7.5°	5201.6	5197.2	5189.3	5172.6	5111.0	5028.3	4863.8	4699.4	4536.1	4468.9	4231.8
10°	5432.1	5442.1	5448.9	5456.7	5431.0	5371.7	5216.2	5015.9	4802.3	4710.6	4361.5
12.5°	5548.4	5566.3	5597.6	5651.3	5693.8	5687.1	5574.1	5361.6	5107.7	4992.5	4523.7
15°	5616.7	5640.1	5689.4	5785.6	5905.3	5973.5	5943.3	5750.9	5467.9	5325.8	4721.7
17.5°	5659.2	5678.2	5754.2	5882.9	6060.7	6242.0	6321.4	6160.3	5875.1	5712.9	4948.8
20°	5688.2	5702.8	5797.9	5948.9	6179.3	6467.9	6689.4	6649.1	6323.6	6113.3	5186.0
22.5°	5753.1	5765.4	5856.0	6008.2	6263.2	6635.7	7044.0	7104.4	6796.8	6558.5	5439.9
25°	5934.3	5934.3	6010.4	6116.7	6356.1	6781.1	7343.8	7611.2	7280.1	7002.6	5674.8
27.5°	6280.0	6276.6	6304.6	6341.5	6522.7	6928.8	7611.2	8058.6	7781.2	7478.1	5903.0
30°	6689.4	6711.8	6715.1	6697.2	6782.3	7113.4	7858.4	8530.7	8285.7	7959.1	6136.8
32.5°	7216.3	7230.8	7214.1	7154.8	7142.5	7375.1	8101.1	9025.1	8831.6	8461.3	6350.5
35°	7885.2	7857.3	7804.7	7683.9	7568.7	7725.3	8378.6	9519.6	9444.6	9068.7	6644.7
37.5°	8602.3	8603.4	8538.5	8264.5	8105.6	8172.7	8761.1	10080.0	10186.3	9791.4	7021.7
40°	9177.3	9207.5	9247.7	8887.5	8681.7	8774.5	9247.7	10729.9	11063.3	10648.3	7512.7
42.5°	9578.8	9613.5	9727.6	9501.7	9288.0	9460.3	9820.5	11423.5	12047.7	11637.1	8087.7
45°	10003.9	10022.9	10103.5	10006.2	9869.7	10257.9	10465.9	12141.6	13089.1	12690.9	8730.9
47.5°	10451.4	10471.5	10554.3	10489.4	10417.8	11002.9	11139.3	12818.4	14086.9	13848.7	9417.8
50°	11004.0	11017.4	11095.7	10978.3	11000.6	11564.4	11741.2	13439.2	15132.9	14889.0	10106.8
52.5°	11757.9	11761.3	11869.8	11763.5	11658.4	11976.1	12259.1	14024.3	15952.8	15837.6	10795.9
55°	12348.6	12384.4	12740.1	12717.7	12657.3	12349.7	12692.0	14581.4	16684.4	16739.2	11527.5
57.5°	11971.6	12111.4	12831.8	13339.7	13834.1	13279.3	13277.0	15208.9	17364.5	17624.0	12331.8
60°	10484.9	10675.1	11736.7	12863.1	14410.2	14896.8	14491.9	15975.2	18051.4	18501.1	13339.7
62.5°	7488.1	7801.3	9239.9	11038.7	13620.5	15968.5	16964.1	17191.1	18985.4	19516.8	14649.6
65°	3785.5	4022.6	5228.5	7395.3	10882.1	15268.2	19651.0	19853.5	20608.6	21080.6	16666.5
67.5°	2299.9	2389.4	2977.8	4113.2	6671.5	11893.3	20528.0	24291.1	23749.7	24000.2	19542.5
70°	1694.7	1760.7	2127.6	2731.7	3836.9	6979.1	17836.6	27457.9	27102.2	27074.2	21667.9
72°	1320.0	1368.1	1692.5	2207.1	2805.5	4187.0	12928.0	26289.0	28062.0	27921.1	21473.3
72.5°	1251.7	1294.3	1589.6	2077.3	2651.2	3795.5	11623.7	25500.3	27992.6	27928.9	21221.6
75°	985.5	1015.7	1176.8	1606.4	2075.1	2153.4	6369.5	19761.8	24832.5	25865.0	19087.2
77.5°	815.5	820.0	905.0	1169.0	1617.5	1522.5	3128.8	13711.1	17781.8	18917.2	13520.9
80°	664.5	670.1	710.3	820.0	1223.8	1126.5	1485.5	7884.1	9955.8	9968.1	6429.9
82.5°	529.1	530.2	575.0	599.6	879.2	805.4	851.3	3701.6	4350.4	4184.8	2311.1
85°	372.5	364.7	561.6	492.2	575.0	516.8	469.8	1465.4	1798.8	1720.5	723.8
87.5°	124.2	128.6	249.5	318.8	335.6	293.1	209.2	561.6	679.0	673.4	229.3
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-SA9A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9
2.5°	4017.0	3981.2	3928.6	3870.5	3824.6	3777.6	3742.9	3725.0	3704.9	3688.1	3708.3
5°	4059.5	3992.4	3880.5	3770.9	3690.4	3618.8	3567.3	3540.5	3515.9	3499.1	3501.3
7.5°	4128.9	4020.4	3832.4	3672.5	3560.6	3483.4	3430.8	3412.9	3397.3	3392.8	3398.4
10°	4202.7	4042.7	3768.7	3556.1	3428.6	3364.8	3341.4	3353.7	3364.8	3374.9	3386.1
12.5°	4286.6	4062.9	3675.8	3419.7	3311.2	3286.5	3310.0	3363.7	3402.9	3426.4	3440.9
15°	4396.2	4080.8	3568.4	3283.2	3210.5	3238.4	3317.9	3410.7	3478.9	3522.6	3529.3
17.5°	4496.9	4079.7	3430.8	3145.6	3128.8	3210.5	3330.2	3461.0	3552.8	3614.3	3626.6
20°	4600.9	4049.4	3270.9	3011.4	3046.0	3180.3	3335.8	3493.5	3604.2	3675.8	3692.6
22.5°	4698.3	3996.9	3095.3	2889.4	2976.7	3140.0	3314.5	3474.5	3585.2	3643.4	3661.3
25°	4764.3	3905.1	2917.4	2786.5	2915.2	3090.8	3245.2	3373.8	3456.6	3485.7	3490.1
27.5°	4797.8	3785.5	2749.6	2697.0	2851.4	3010.2	3116.5	3180.3	3203.8	3201.5	3197.0
30°	4802.3	3627.7	2605.3	2624.3	2777.6	2891.7	2942.0	2929.7	2899.5	2848.0	2852.5
32.5°	4787.7	3449.9	2484.5	2555.0	2683.6	2747.4	2749.6	2690.3	2609.8	2528.1	2505.7
35°	4792.2	3275.4	2378.2	2476.7	2569.5	2597.5	2571.7	2484.5	2374.9	2269.7	2247.3
37.5°	4841.4	3123.2	2286.5	2386.0	2443.1	2449.8	2412.9	2321.2	2240.6	2137.7	2128.8
40°	4958.9	3014.7	2199.2	2284.2	2316.7	2320.0	2267.5	2202.6	2209.3	2154.5	2153.4
42.5°	5170.3	2967.7	2122.0	2178.0	2198.1	2204.8	2164.6	2123.2	2181.3	2145.5	2133.2
45°	5443.3	2978.9	2057.2	2073.9	2110.9	2142.2	2117.6	2067.2	2089.6	1934.1	1882.7
47.5°	5758.7	3050.5	2005.7	1984.5	2048.2	2107.5	2069.5	1993.4	1914.0	1759.6	1730.5
50°	6127.9	3161.3	1958.7	1896.1	1980.0	2060.5	2022.5	1914.0	1794.3	1719.3	1709.3
52.5°	6512.7	3296.6	1911.7	1798.8	1893.8	2024.7	2005.7	1896.1	1748.4	1674.6	1661.2
55°	6948.9	3433.1	1852.5	1685.8	1801.0	2007.9	1997.9	1831.2	1713.7	1672.4	1662.3
57.5°	7491.5	3588.6	1774.2	1568.3	1713.7	1947.5	1916.2	1792.0	1677.9	1646.6	1643.3
60°	8198.5	3817.9	1661.2	1443.0	1607.5	1854.7	1848.0	1735.0	1620.9	1598.5	1594.1
62.5°	9258.9	4197.1	1505.7	1317.7	1488.9	1697.0	1758.5	1657.8	1560.5	1559.4	1561.6
65°	10903.3	4767.6	1336.8	1208.1	1369.2	1563.8	1654.5	1578.4	1499.0	1521.3	1524.7
67.5°	12809.5	5240.8	1171.2	1100.7	1247.3	1437.4	1560.5	1499.0	1417.3	1475.5	1476.6
70°	13443.7	4817.9	1025.8	994.5	1120.9	1315.5	1458.7	1411.7	1328.9	1387.1	1381.5
72°	12510.8	3889.5	931.8	913.9	1025.8	1214.8	1368.1	1330.1	1248.4	1287.5	1273.0
72.5°	12216.6	3708.3	908.3	893.8	1000.1	1189.1	1344.6	1309.9	1228.3	1261.8	1248.4
75°	10897.7	3220.5	780.8	784.2	872.5	1063.8	1212.6	1201.4	1117.5	1120.9	1116.4
77.5°	7904.3	2361.4	657.8	680.1	742.8	935.2	1079.5	1072.8	981.0	964.3	960.9
80°	3668.0	1204.8	535.8	545.9	610.8	781.9	920.6	911.7	837.9	816.6	804.3
82.5°	1256.2	572.7	402.7	409.4	473.2	629.8	798.7	793.1	731.6	690.2	664.5
85°	448.6	285.3	281.9	275.2	337.8	495.6	695.8	665.6	575.0	490.0	487.7
87.5°	145.4	121.9	145.4	144.3	196.9	335.6	505.6	430.7	417.2	346.8	340.1
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.

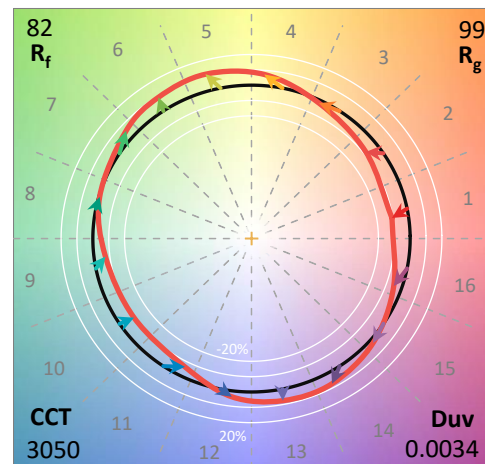
Test Information

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

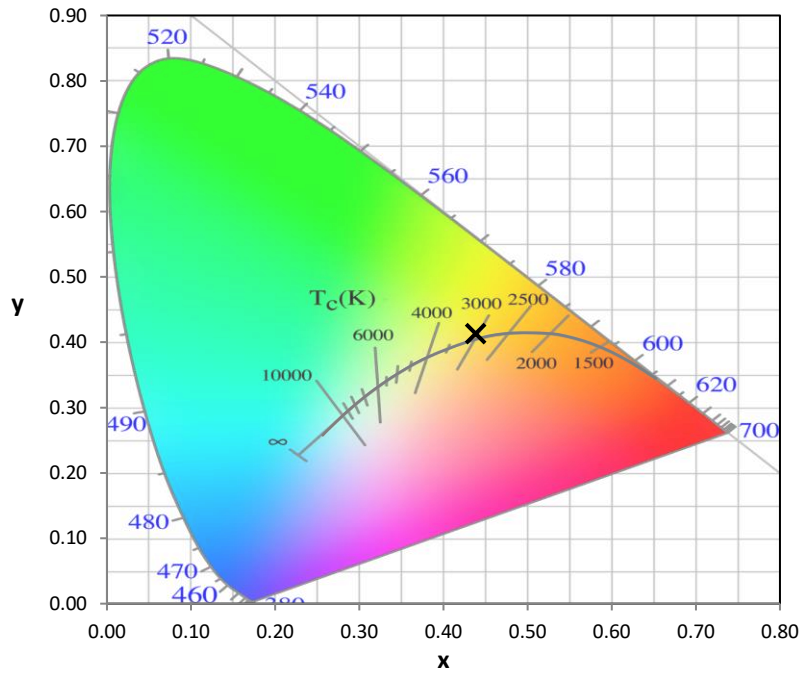
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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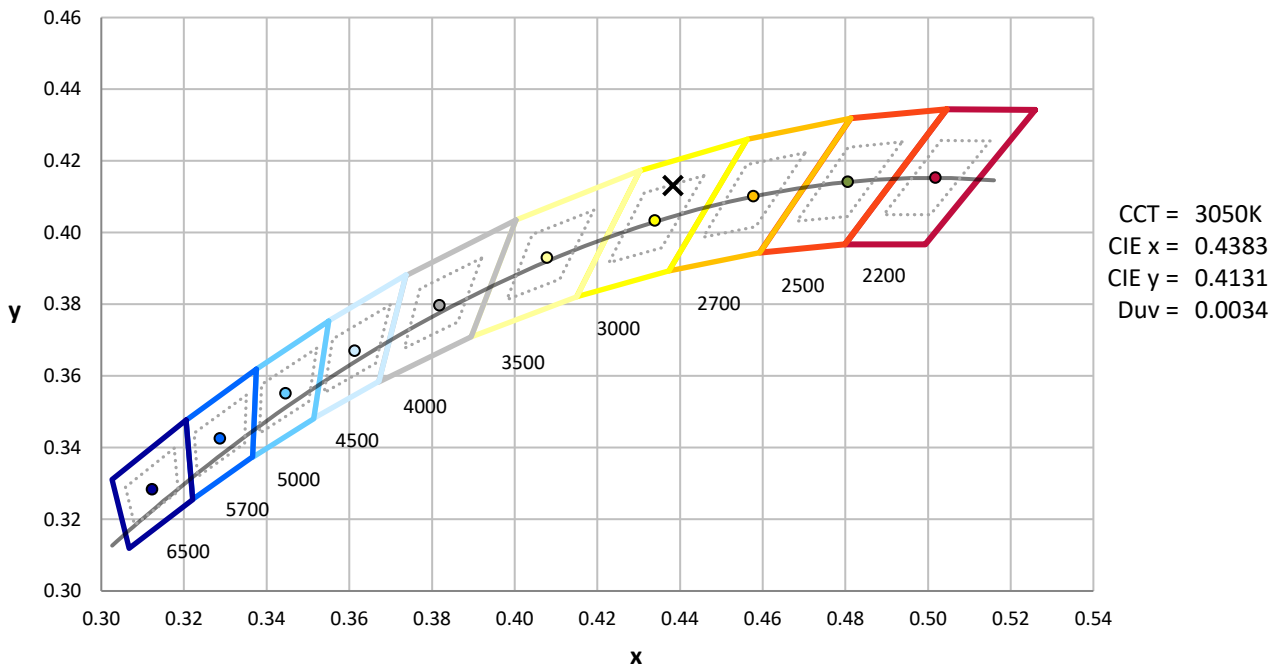
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



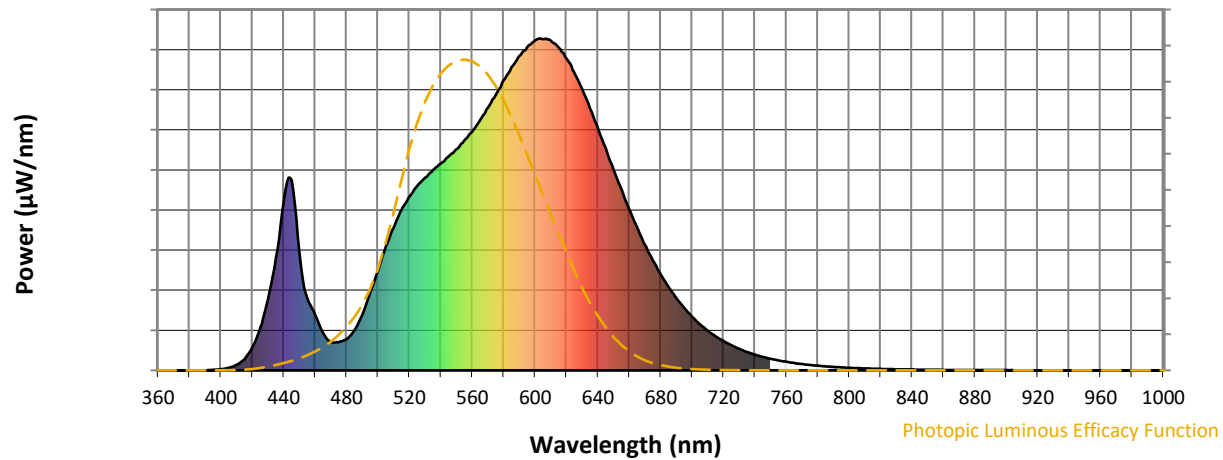
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

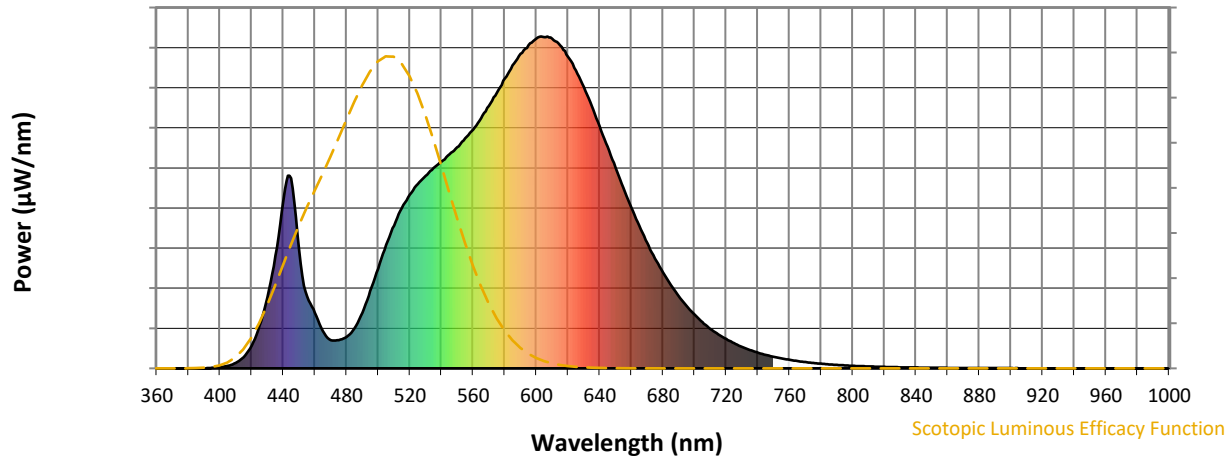


Photopic Lumens: NR

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

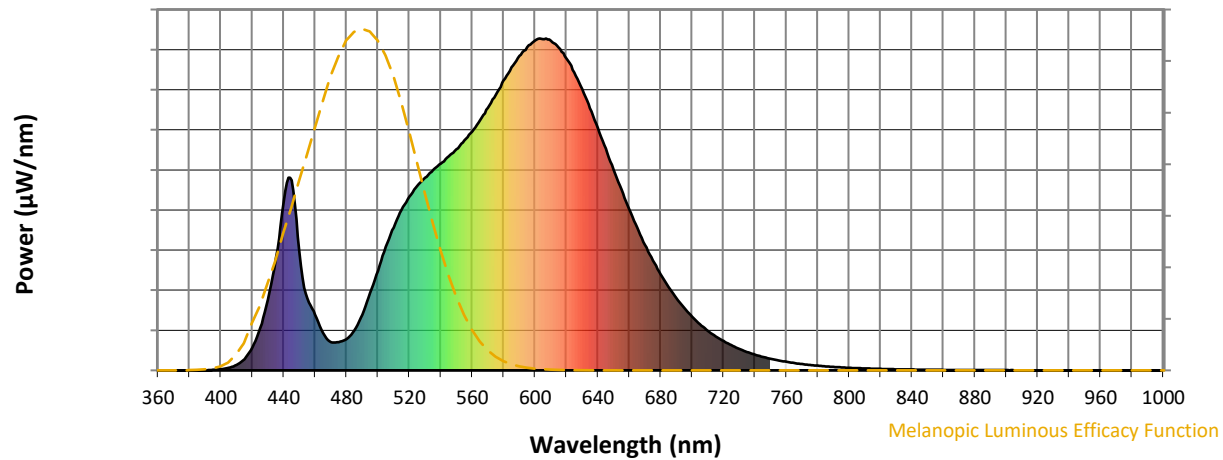


Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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			

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.32

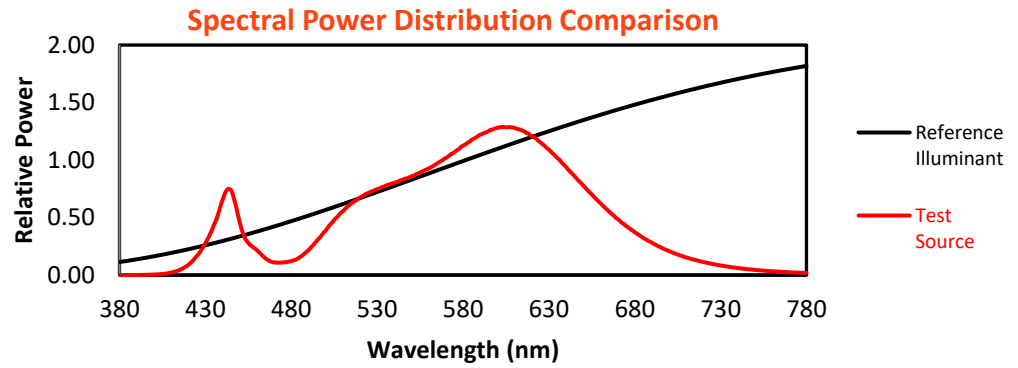
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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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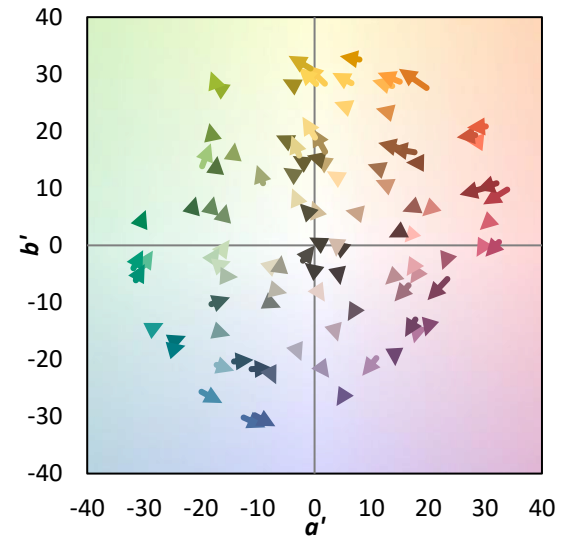
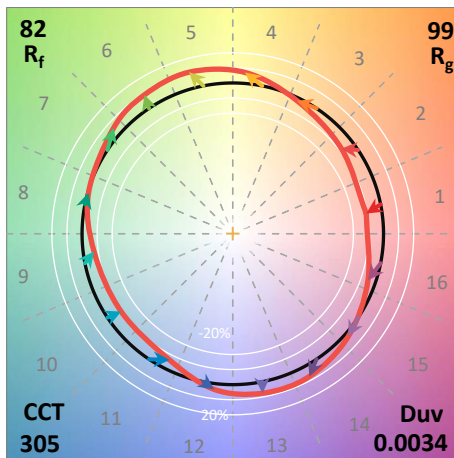
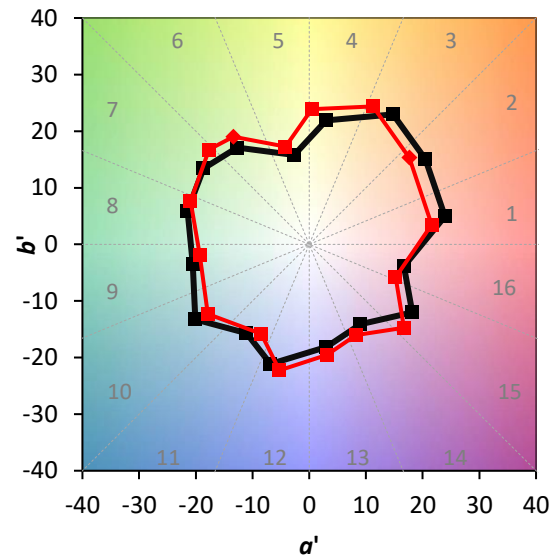
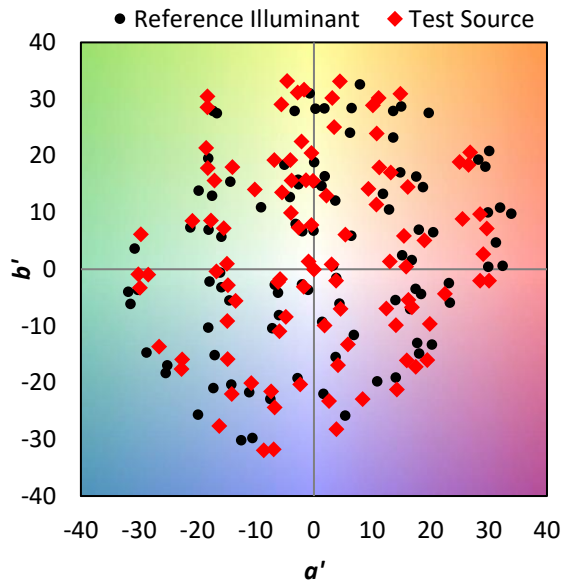
TM-30-18

Summary

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

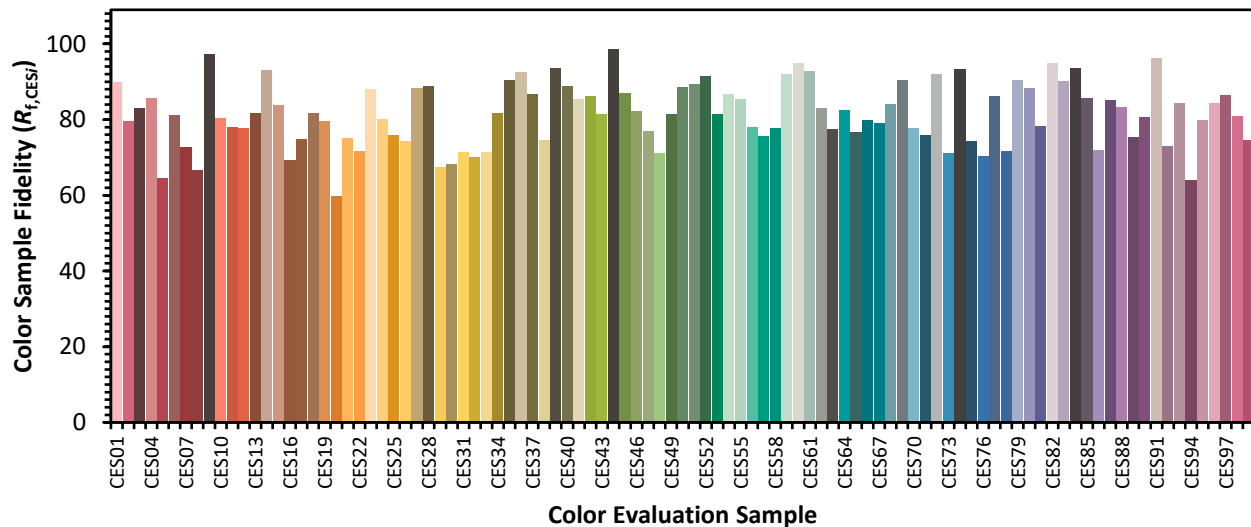


Color Vector Graphics

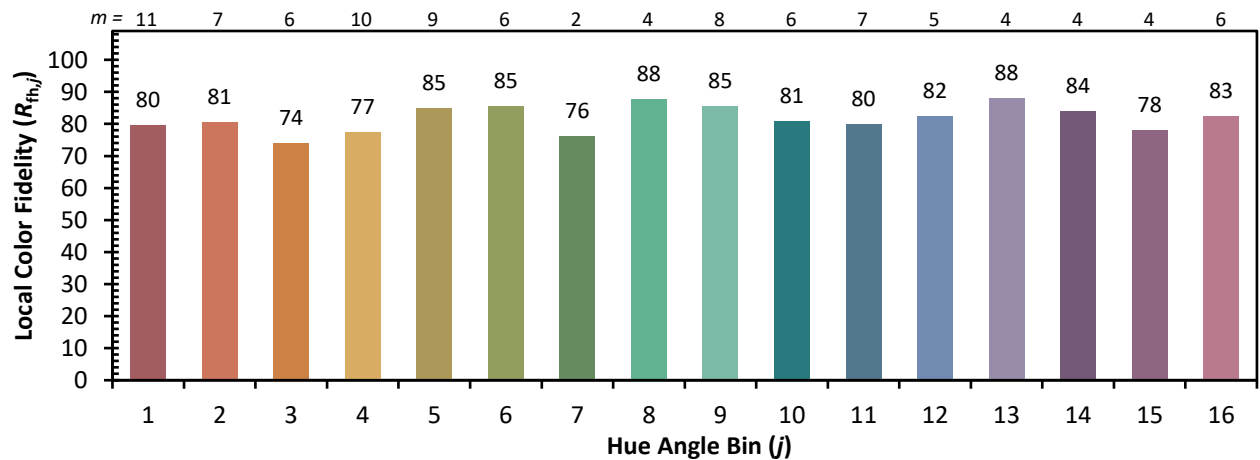
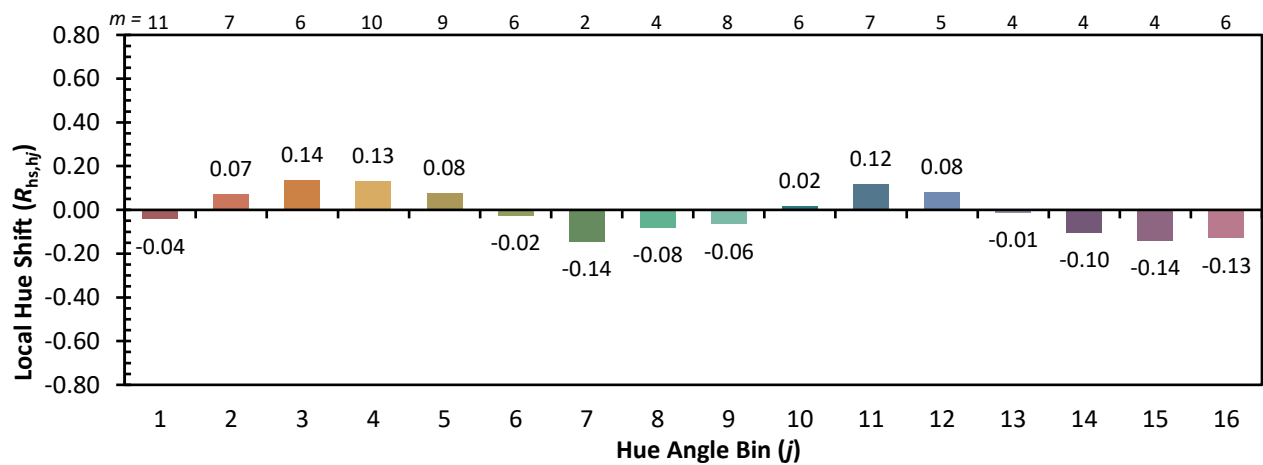
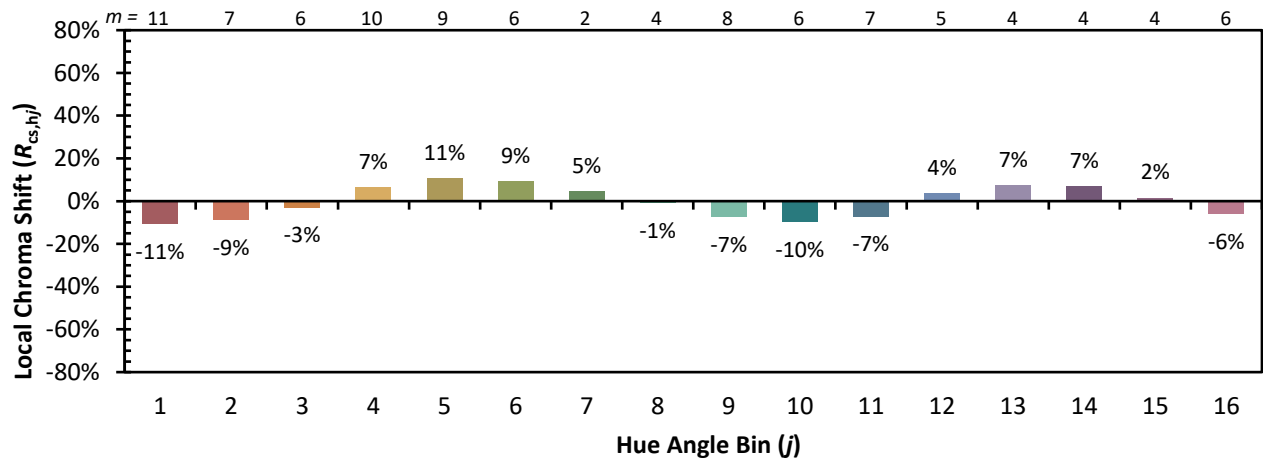


Individual Sample Fidelity Index ($R_{f,i}$)

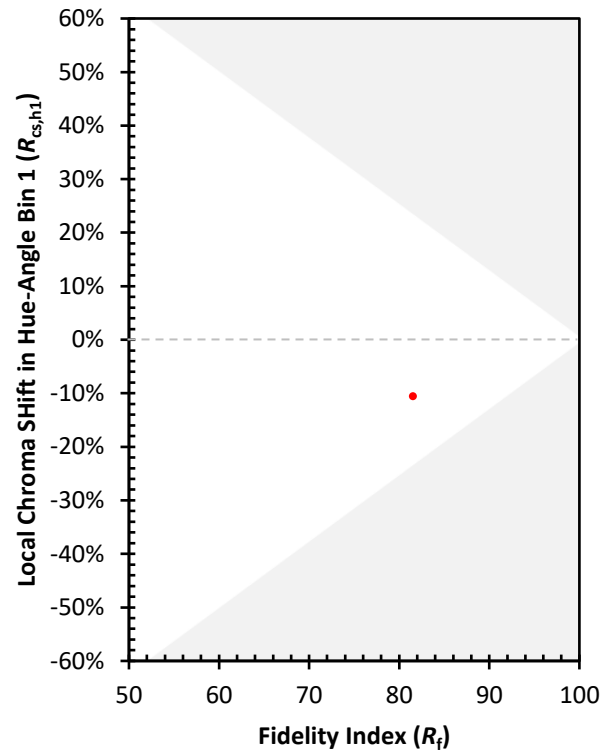
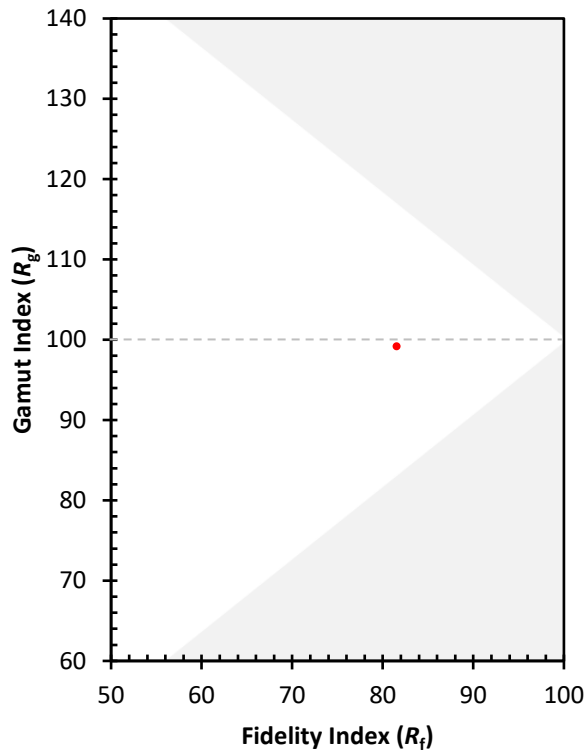
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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