

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: P322081

Luminaire Tested: **GLEON-SA7B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22850 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

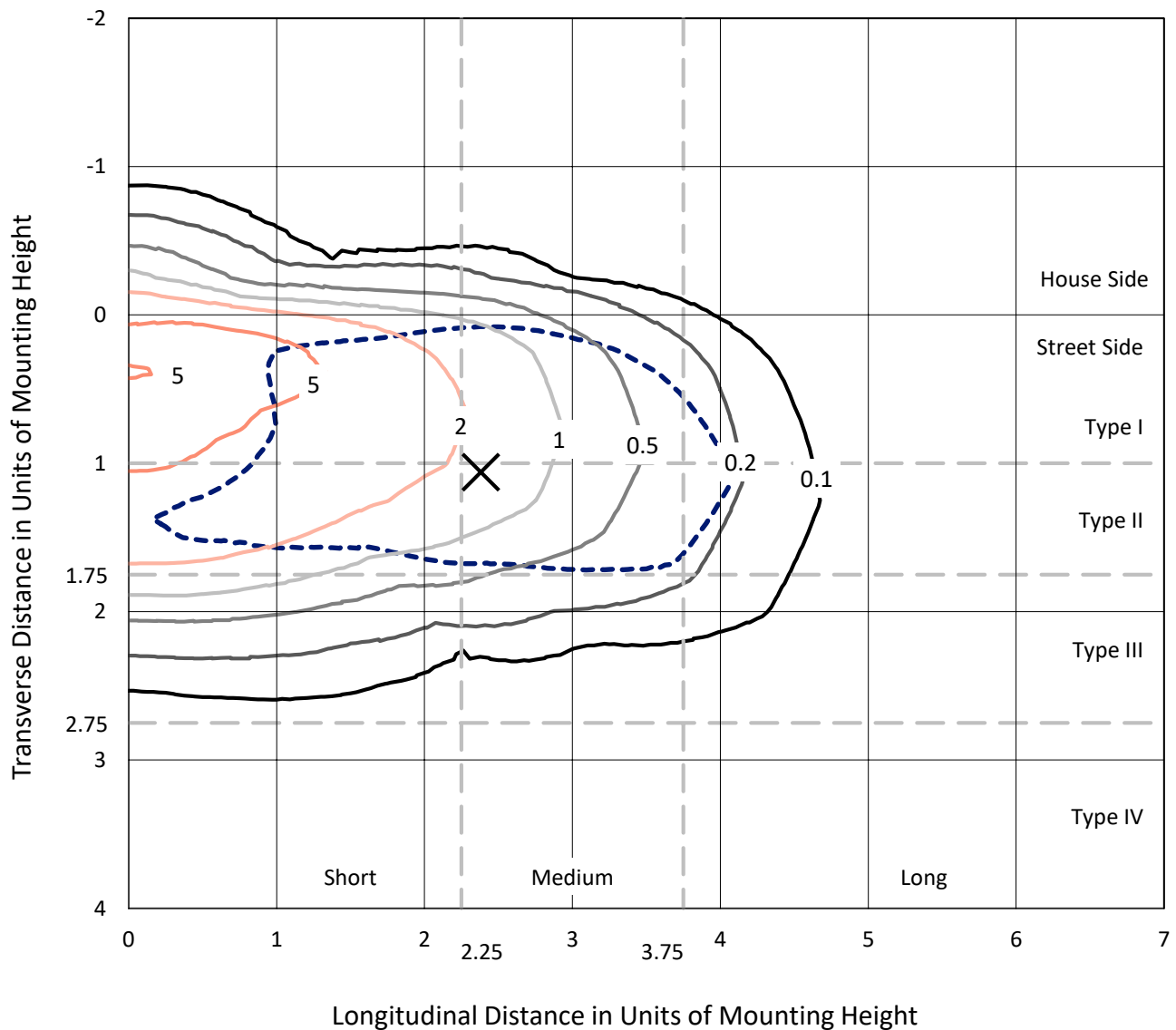
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

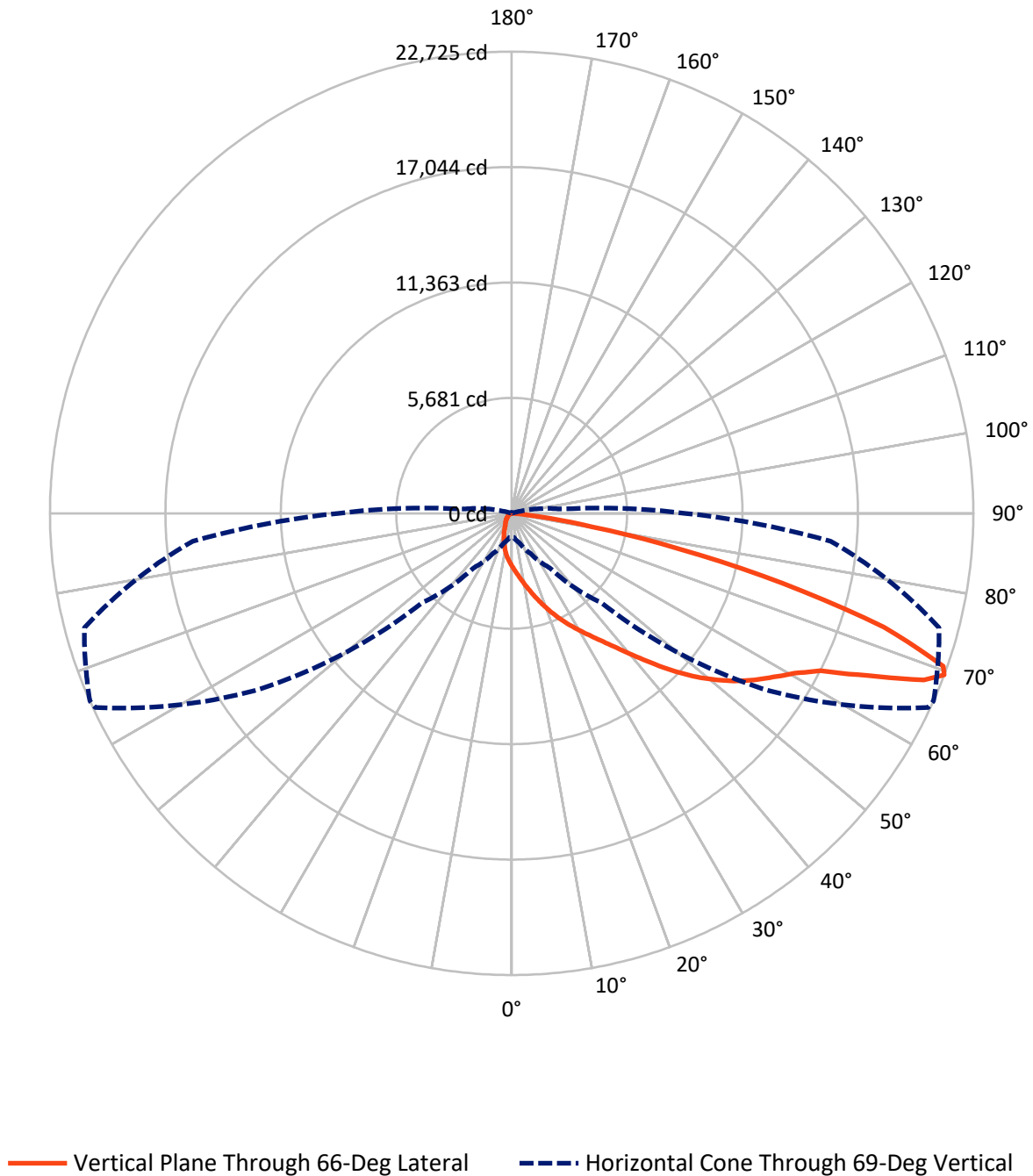
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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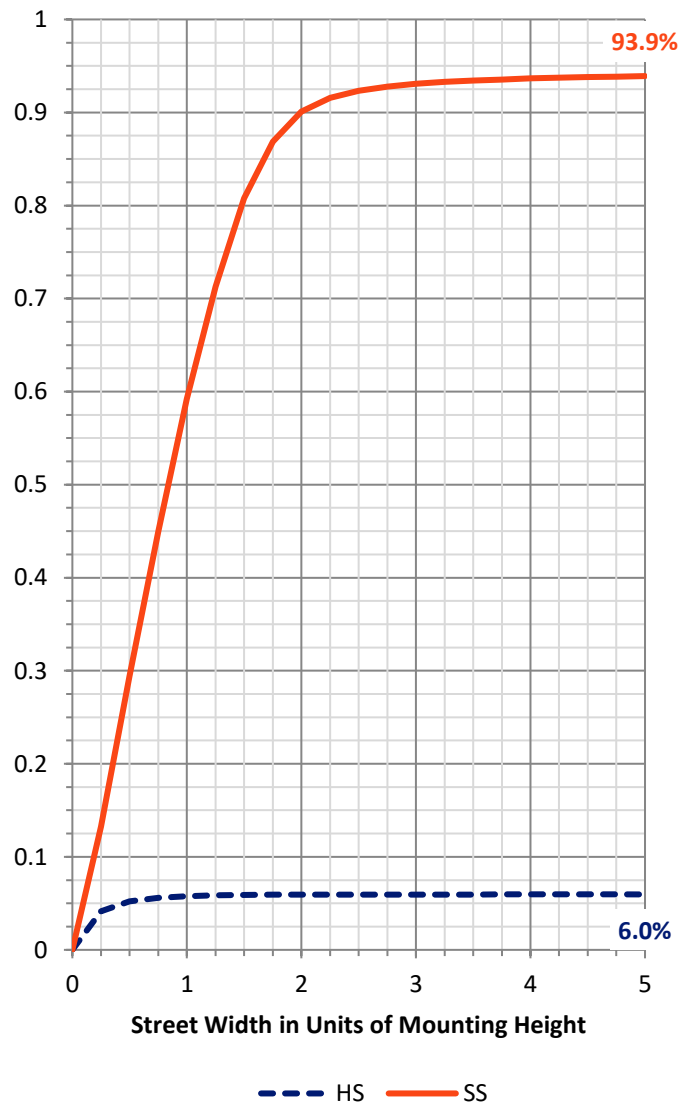
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1370.7	0.0	1370.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	21479.3	0.0	21479.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	22850.0	0.0	22850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	1.1
10°-20°	748.1	3.3
20°-30°	1302.7	5.7
30°-40°	2285.6	10.0
40°-50°	3825.8	16.7
50°-60°	5623.5	24.6
60°-70°	5774.0	25.3
70°-80°	2850.4	12.5
80°-90°	188.5	0.8
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°	22850.0	100.0
0°-180°	22850.0	100.0

Coefficient of Utilization



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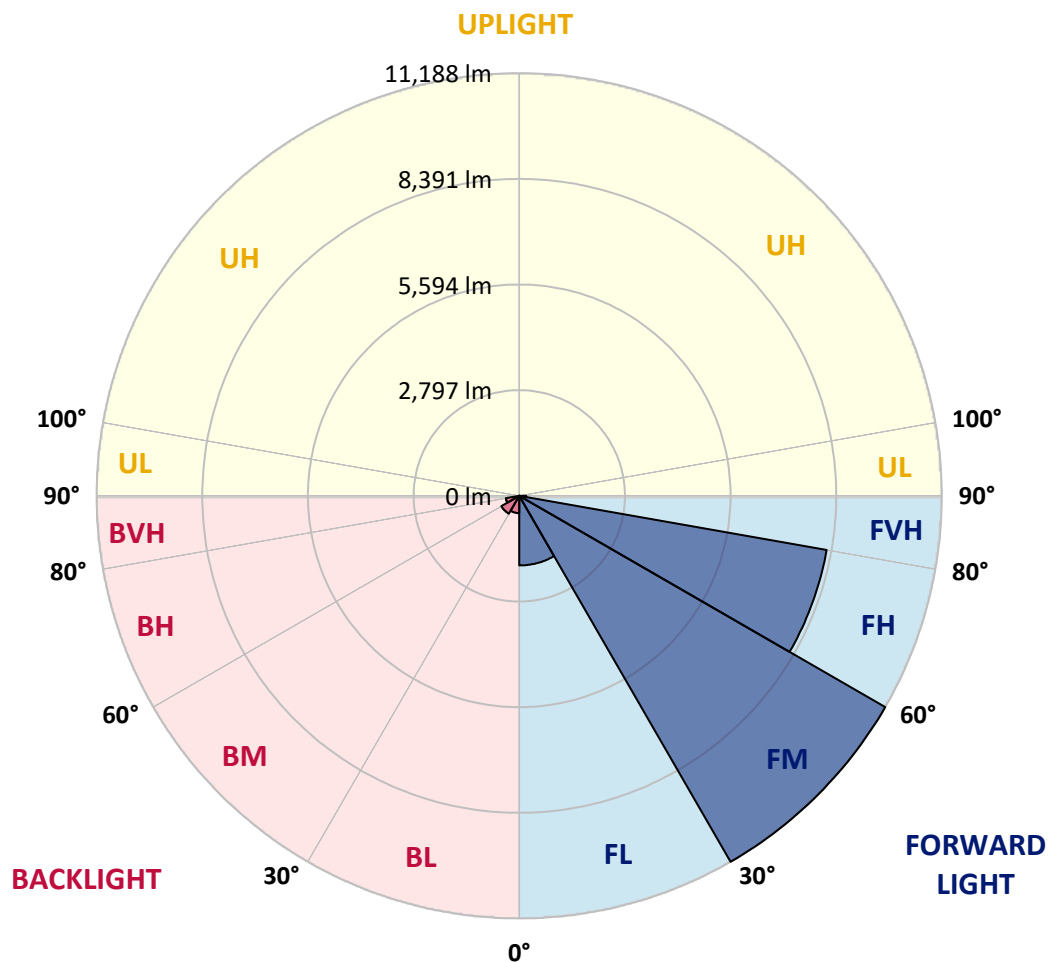
CATALOG NUMBER: GLEON-SA7B-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.8	8.1			
FM	(30°-60°)	11188.5	49.0			
FH	(60°-80°)	8263.2	36.2			G4/12000
FVH	(80°-90°)	183.9	0.8			G2/225
BL	(0°-30°)	458.4	2.0	B1/500		
BM	(30°-60°)	546.5	2.4	B1/1000		
BH	(60°-80°)	361.2	1.6	B1/500		G1/500
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4
2.5°	3060.6	3047.6	3042.1	3018.2	2977.0	2945.5	2884.8	2814.2	2801.2	2732.8	2649.2
5°	3457.8	3446.9	3439.3	3405.7	3363.4	3284.1	3173.4	3042.1	3017.2	2886.9	2719.8
7.5°	3734.6	3754.1	3754.1	3732.4	3679.2	3619.5	3483.8	3304.8	3273.3	3073.6	2814.2
10°	3896.3	3920.1	3938.6	3957.0	3949.4	3925.6	3797.5	3595.6	3557.6	3292.8	2923.8
12.5°	3911.5	3935.3	3987.4	4064.5	4139.4	4193.6	4113.3	3918.0	3874.6	3546.8	3054.1
15°	3826.8	3851.8	3932.1	4081.9	4263.1	4421.6	4447.6	4275.0	4230.5	3849.6	3216.9
17.5°	3679.2	3695.5	3810.5	4017.8	4302.2	4593.0	4750.4	4658.2	4616.9	4195.8	3398.1
20°	3569.6	3581.5	3682.5	3904.9	4278.3	4700.5	5036.9	5065.1	5021.7	4567.0	3594.5
22.5°	3757.3	3779.1	3782.3	3887.6	4213.2	4753.7	5288.7	5465.6	5433.1	4961.0	3787.7
25°	4270.7	4295.7	4213.2	4148.1	4268.5	4777.5	5504.7	5875.9	5849.8	5385.3	3982.0
27.5°	4949.0	4975.1	4868.7	4674.4	4558.3	4867.6	5696.8	6292.6	6291.5	5834.6	4191.5
30°	5615.4	5641.4	5532.9	5338.6	5071.7	5122.7	5862.8	6728.9	6735.4	6298.1	4414.0
32.5°	6314.3	6346.9	6235.1	5985.5	5706.6	5563.3	6096.2	7167.4	7204.3	6835.3	4664.7
35°	7108.8	7113.1	6955.8	6694.2	6372.9	6152.6	6470.6	7659.0	7746.9	7500.6	4982.7
37.5°	7888.0	7919.5	7790.4	7377.9	7082.7	6833.1	7027.4	8273.3	8398.1	8313.5	5398.3
40°	8465.4	8531.6	8513.2	8068.2	7788.2	7610.2	7718.7	9003.7	9162.2	9259.9	5922.5
42.5°	8827.9	8877.8	8962.5	8694.4	8440.5	8469.8	8534.9	9854.6	10050.0	10338.7	6524.9
45°	9243.6	9267.5	9338.0	9219.7	9048.2	9343.4	9401.0	10812.9	11018.1	11498.9	7193.4
47.5°	9751.5	9807.9	9827.5	9719.0	9640.8	10116.2	10235.6	11684.5	11972.1	12741.5	7901.1
50°	10398.4	10413.6	10447.2	10376.7	10298.5	10780.4	10984.4	12599.4	12860.9	13988.6	8598.9
52.5°	11031.1	11085.4	11202.6	11158.1	11126.6	11345.8	11651.9	13424.2	13716.2	15028.3	9295.7
55°	11213.4	11260.1	11664.9	11941.7	12197.8	12042.6	12290.1	14163.3	14479.1	15957.3	9966.4
57.5°	10485.2	10579.6	11280.7	12001.4	13063.9	13125.7	13167.0	14921.9	15205.2	16669.3	10664.3
60°	8644.5	8662.9	9813.4	11049.5	12920.6	14071.0	14447.7	15737.0	15974.7	17332.4	11499.9
62.5°	5498.2	5685.9	6948.2	8693.3	11405.5	13934.3	15996.4	16969.9	17056.7	18127.9	12698.1
65°	2618.9	2740.4	3649.9	5371.2	8261.4	12183.7	17065.4	19200.2	19239.3	19704.9	14299.0
67.5°	1450.0	1508.6	1941.6	2891.3	4829.6	8616.3	16633.5	21841.9	21878.8	21315.5	15703.4
69°	1134.1	1184.1	1524.9	2179.3	3274.4	6192.8	15052.2	22615.7	22725.3	21776.8	15753.3
70°	962.7	1011.5	1313.2	1840.7	2633.0	4785.1	13398.2	22423.6	22539.7	21733.3	15381.0
72.5°	589.3	617.5	874.8	1295.9	1764.7	2407.2	8262.5	18963.6	19160.1	19936.1	13219.1
75°	397.2	412.4	547.0	894.3	1262.2	1239.4	4292.4	13366.7	13792.1	15508.0	9763.5
77.5°	284.4	298.5	366.8	578.5	884.5	818.3	1943.8	8307.0	8398.1	9301.1	5324.5
80°	161.7	174.7	259.4	344.0	600.2	545.9	772.7	3967.9	4013.5	3988.5	1777.7
82.5°	84.7	95.5	142.2	226.8	385.3	357.1	321.3	1328.4	1334.9	1110.3	389.6
85°	16.3	19.5	70.5	155.2	198.6	155.2	131.3	311.5	318.0	281.1	96.6
87.5°	0.0	1.1	28.2	34.7	39.1	40.2	42.3	60.8	65.1	87.9	26.0
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4
2.5°	2612.3	2573.3	2498.4	2411.6	2344.3	2278.1	2226.0	2171.7	2152.2	2142.4	2141.3
5°	2638.4	2555.9	2397.5	2234.7	2101.2	1975.3	1885.2	1799.4	1759.3	1740.8	1733.2
7.5°	2681.8	2549.4	2294.3	2045.8	1853.7	1696.3	1571.5	1478.2	1431.5	1412.0	1404.4
10°	2732.8	2540.7	2173.9	1846.1	1600.8	1438.0	1314.3	1222.1	1171.0	1149.3	1138.5
12.5°	2792.5	2525.5	2035.0	1644.2	1384.9	1222.1	1072.3	958.3	899.7	874.8	862.8
15°	2866.3	2510.3	1889.5	1454.3	1194.9	996.3	832.4	755.4	743.4	739.1	740.2
17.5°	2939.0	2486.4	1731.1	1266.6	995.2	778.2	694.6	690.3	692.4	692.4	692.4
20°	3004.1	2432.2	1558.5	1105.9	805.3	656.6	639.2	631.7	626.2	621.9	616.5
22.5°	3055.1	2359.5	1392.5	946.4	657.7	601.3	574.1	550.3	530.7	517.7	511.2
25°	3089.9	2262.9	1240.5	793.4	591.5	547.0	498.2	458.0	427.6	409.2	401.6
27.5°	3115.9	2158.7	1104.8	664.2	545.9	484.0	420.0	372.3	340.8	324.5	318.0
30°	3134.4	2040.4	985.5	583.9	494.9	417.8	349.5	302.8	280.0	271.3	267.0
32.5°	3151.7	1909.1	872.6	545.9	447.1	357.1	293.0	257.2	243.1	232.3	229.0
35°	3195.2	1787.5	765.1	505.8	398.3	305.0	251.8	225.7	211.6	205.1	203.0
37.5°	3298.3	1697.4	662.0	464.5	349.5	263.7	220.3	201.9	188.8	182.3	180.2
40°	3464.3	1651.8	575.2	420.0	301.7	232.3	199.7	182.3	168.2	158.5	156.3
42.5°	3708.5	1658.4	514.4	375.5	263.7	207.3	180.2	159.5	144.3	135.7	133.5
45°	4004.8	1706.1	472.1	332.1	232.3	187.8	158.5	136.7	122.6	115.0	112.9
47.5°	4326.0	1783.2	437.4	293.0	207.3	169.3	136.7	114.0	102.0	95.5	94.4
50°	4664.7	1858.1	401.6	255.0	185.6	150.9	115.0	94.4	84.7	79.2	77.1
52.5°	5007.6	1944.9	369.0	220.3	167.1	129.2	95.5	77.1	69.5	65.1	62.9
55°	5376.6	2010.0	337.5	193.2	148.7	109.6	79.2	64.0	57.5	52.1	51.0
57.5°	5810.8	2110.9	305.0	167.1	127.0	91.2	65.1	51.0	45.6	40.2	39.1
60°	6396.8	2229.2	270.2	147.6	104.2	74.9	53.2	41.2	34.7	30.4	29.3
62.5°	7169.6	2360.5	226.8	129.2	84.7	60.8	42.3	32.6	25.0	19.5	19.5
65°	8149.6	2574.4	185.6	108.5	69.5	49.9	32.6	23.9	14.1	8.7	8.7
67.5°	8721.6	2611.3	149.8	89.0	56.4	42.3	27.1	16.3	4.3	1.1	0.0
69°	8538.1	2397.5	127.0	76.0	48.8	40.2	25.0	11.9	2.2	0.0	0.0
70°	8193.0	2192.3	111.8	67.3	44.5	38.0	23.9	8.7	2.2	0.0	0.0
72.5°	6770.2	1560.7	84.7	49.9	32.6	33.6	21.7	5.4	2.2	0.0	0.0
75°	4931.6	948.6	60.8	34.7	20.6	25.0	15.2	2.2	1.1	0.0	0.0
77.5°	2743.7	447.1	38.0	19.5	13.0	15.2	7.6	0.0	0.0	0.0	0.0
80°	891.0	121.6	17.4	10.9	7.6	8.7	3.3	0.0	0.0	0.0	0.0
82.5°	165.0	34.7	9.8	5.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	35.8	14.1	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	4.3	1.1	0.0	0.0	0.0	0.0	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

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

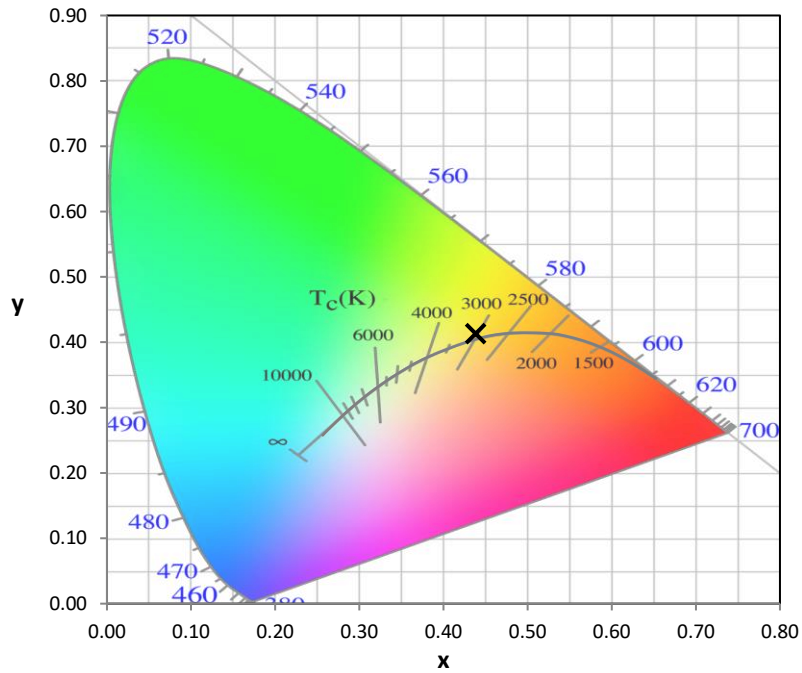
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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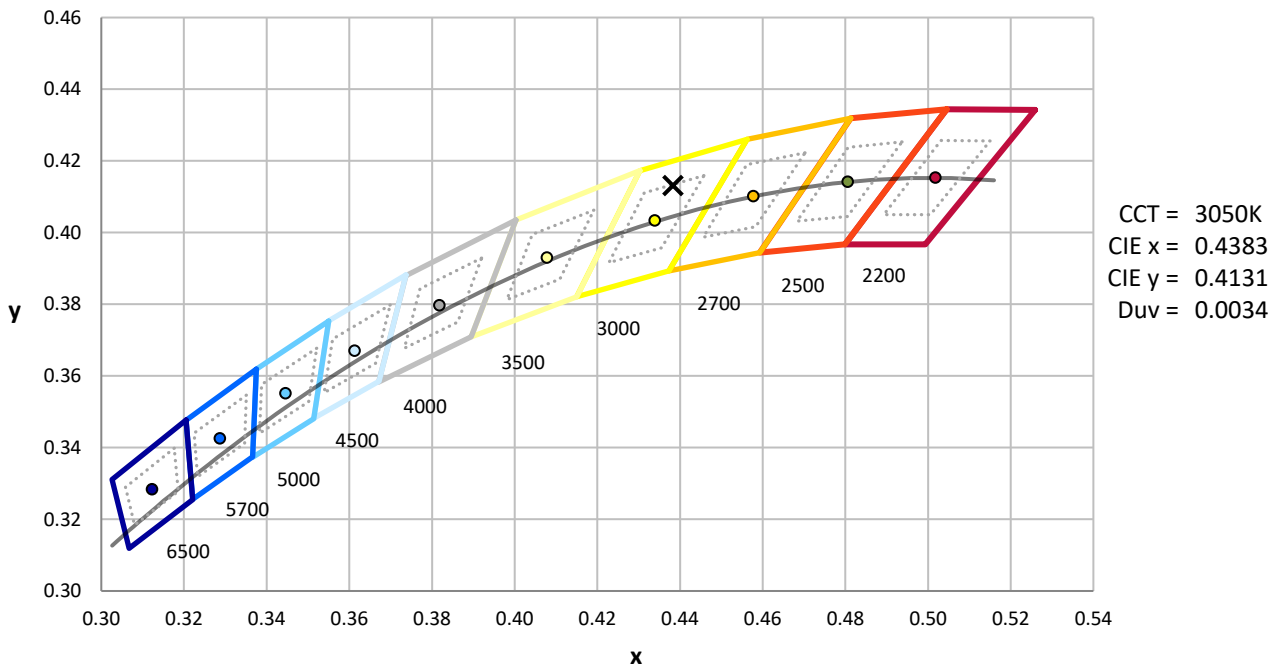
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

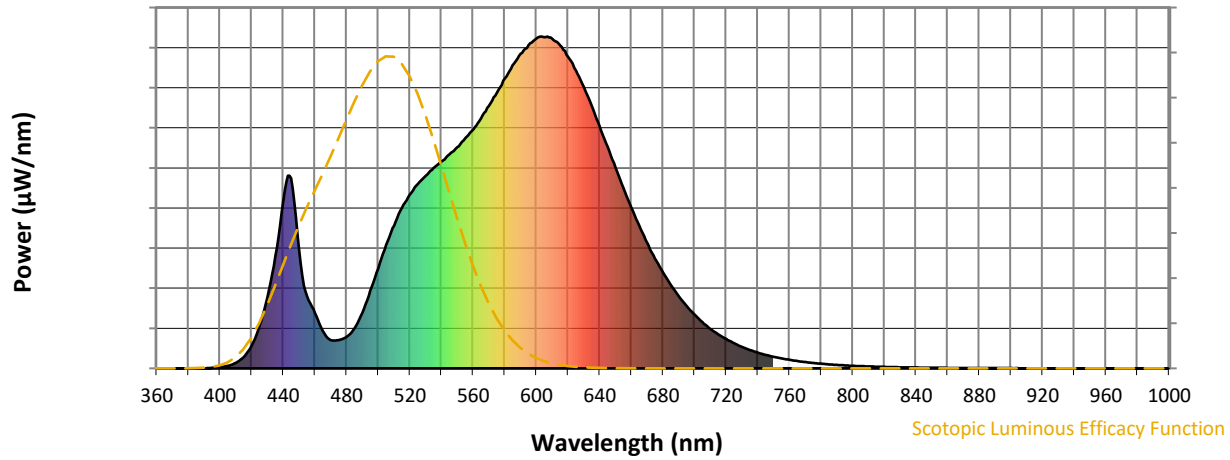


Photopic Lumens: NR

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



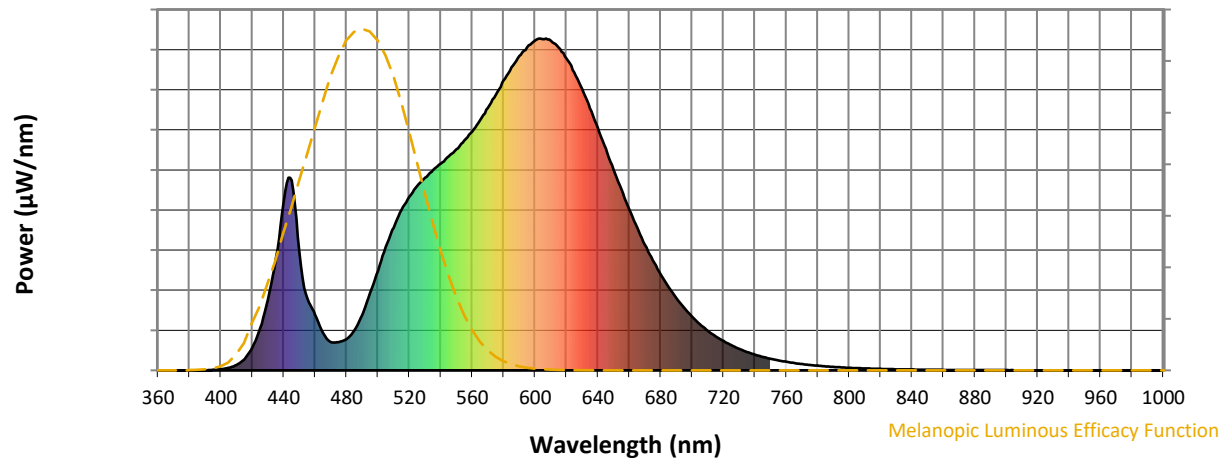
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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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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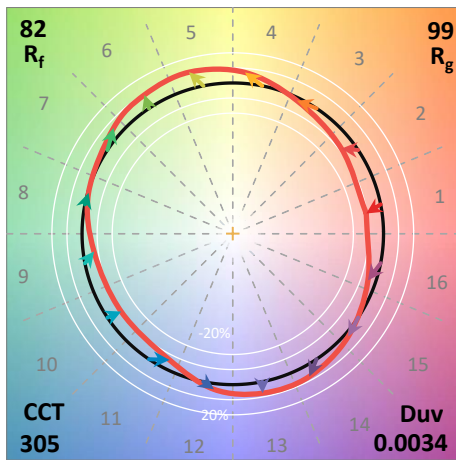
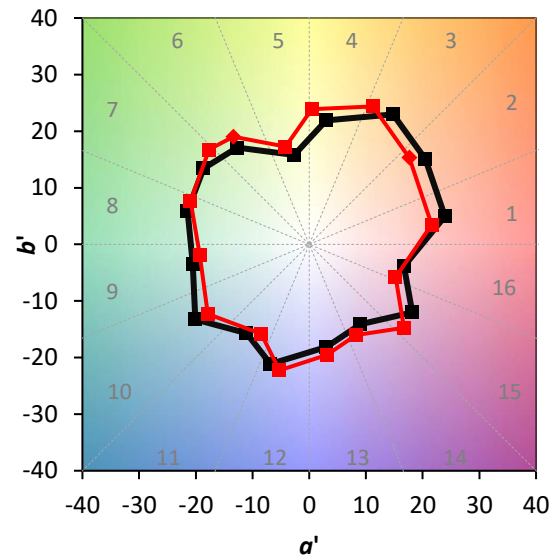
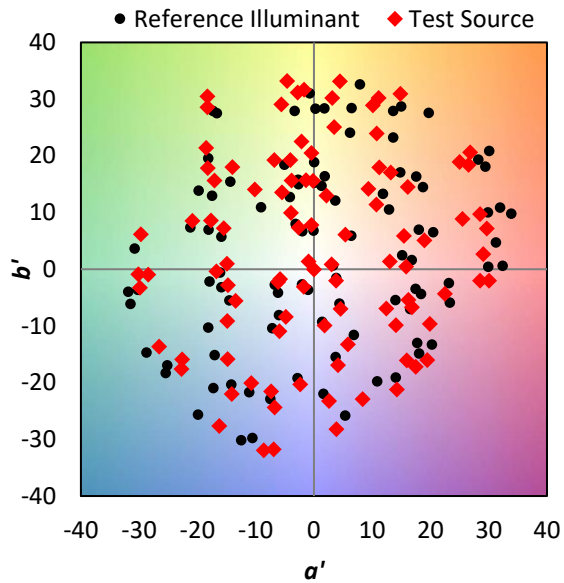
TM-30-18

Summary

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

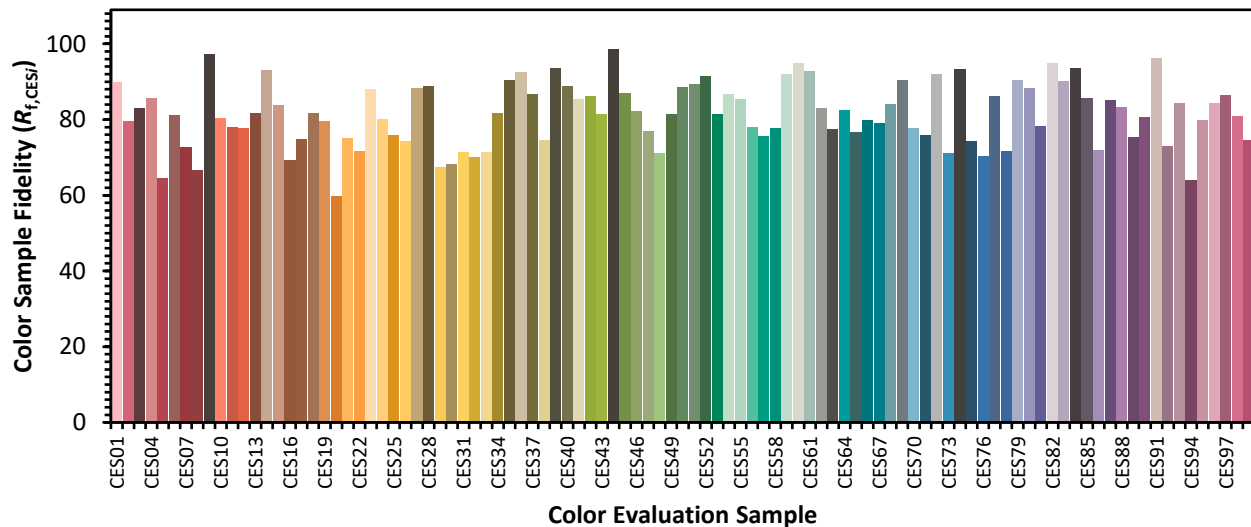


Color Vector Graphics

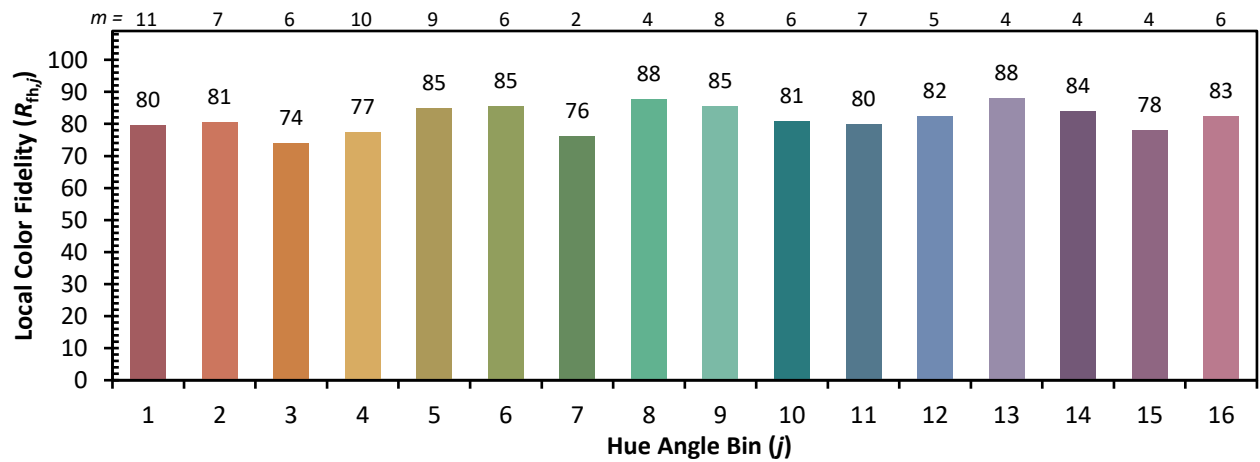
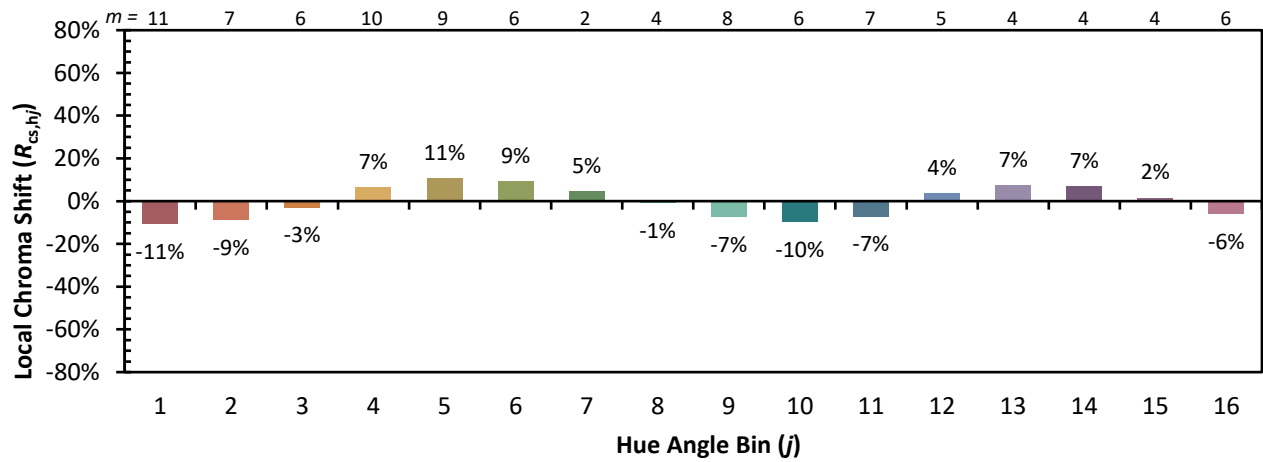


Individual Sample Fidelity Index ($R_{f,i}$)

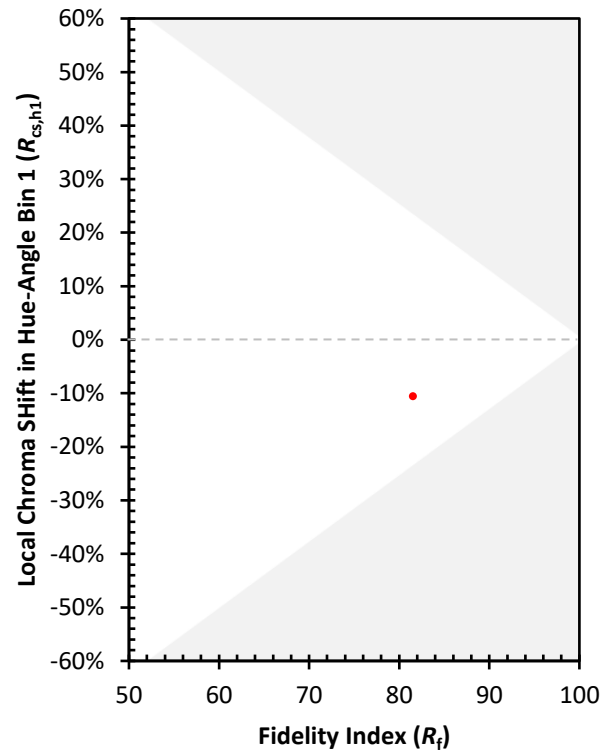
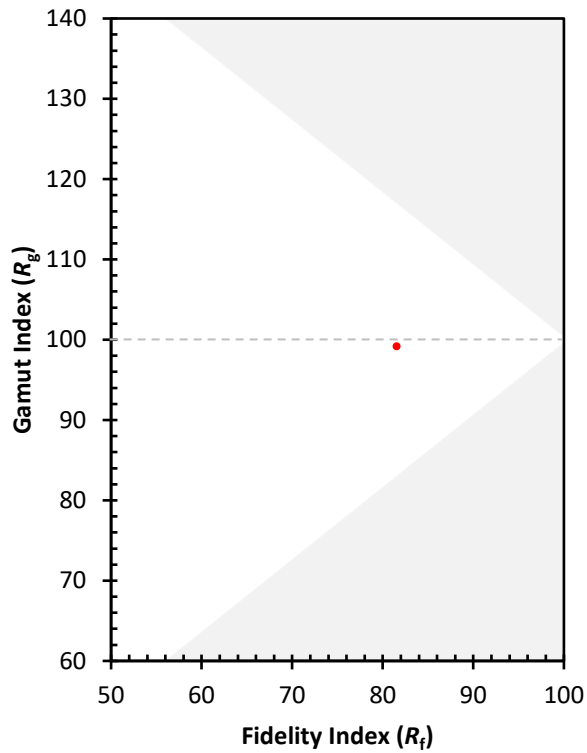
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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