

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: P320171

Luminaire Tested: **GLEON-SA7C-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37776 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

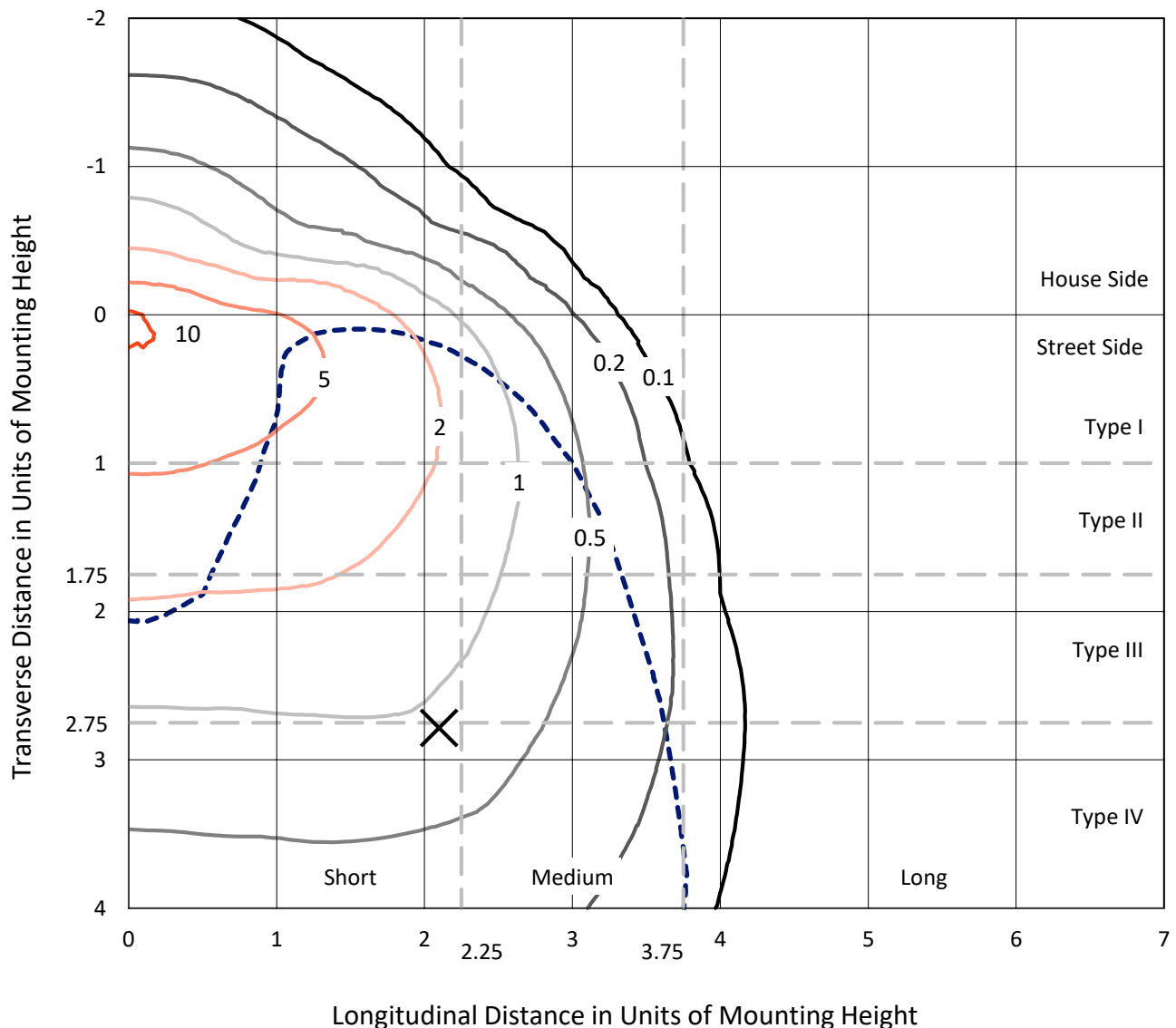
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

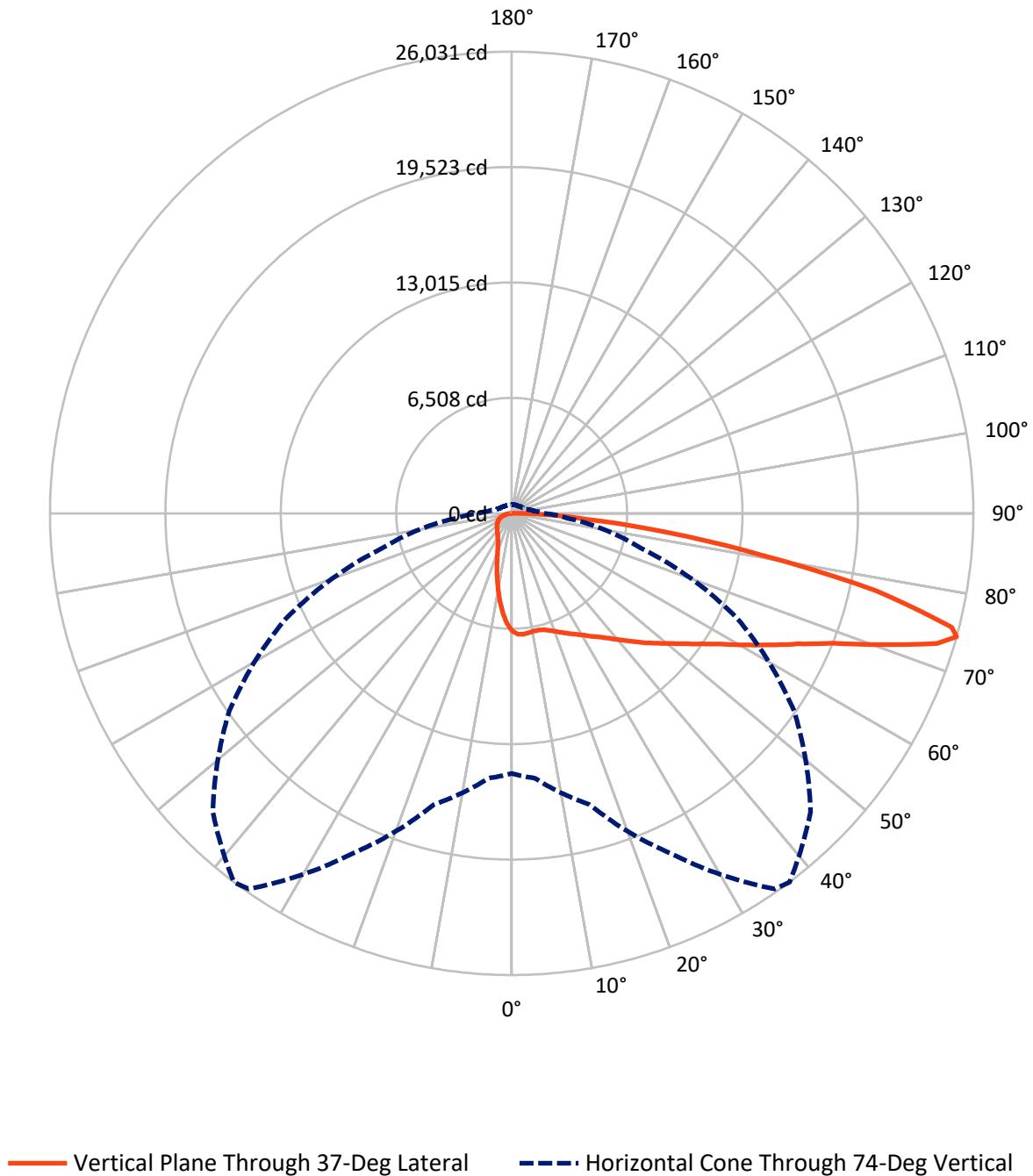
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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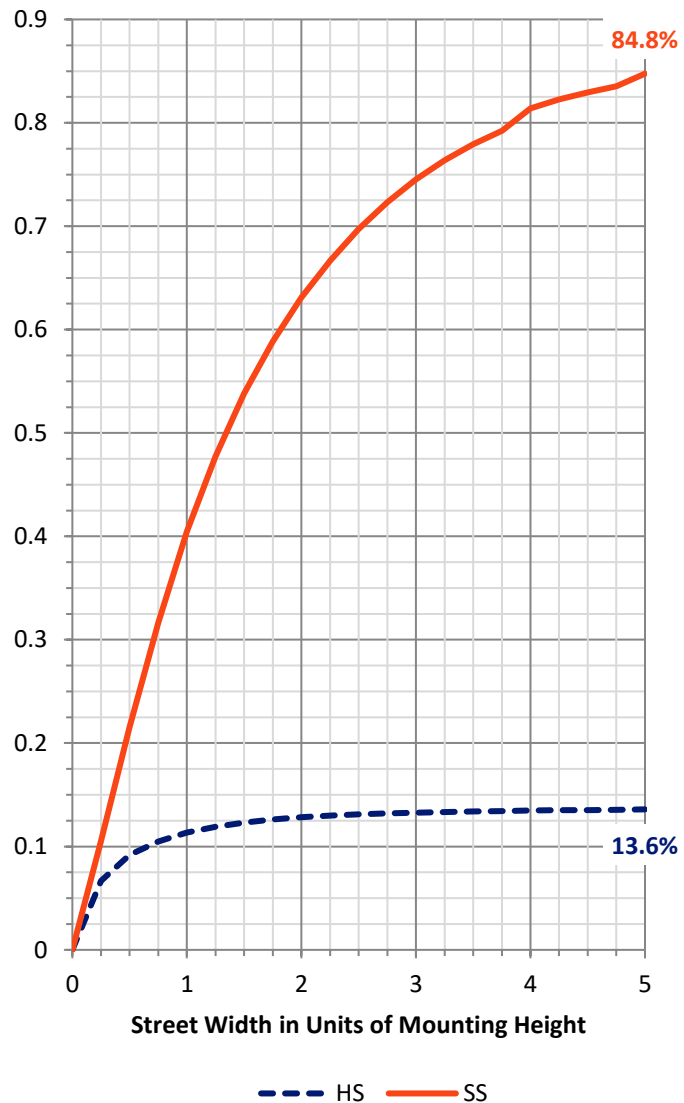
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5197.7	0.0	5197.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	32578.3	0.0	32578.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	37776.0	0.0	37776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.1	1.6
10°-20°	1502.4	4.0
20°-30°	2314.9	6.1
30°-40°	3366.3	8.9
40°-50°	4954.6	13.1
50°-60°	6957.8	18.4
60°-70°	8806.4	23.3
70°-80°	7754.4	20.5
80°-90°	1533.2	4.1
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°	37776.0	100.0
0°-180°	37776.0	100.0

Coefficient of Utilization



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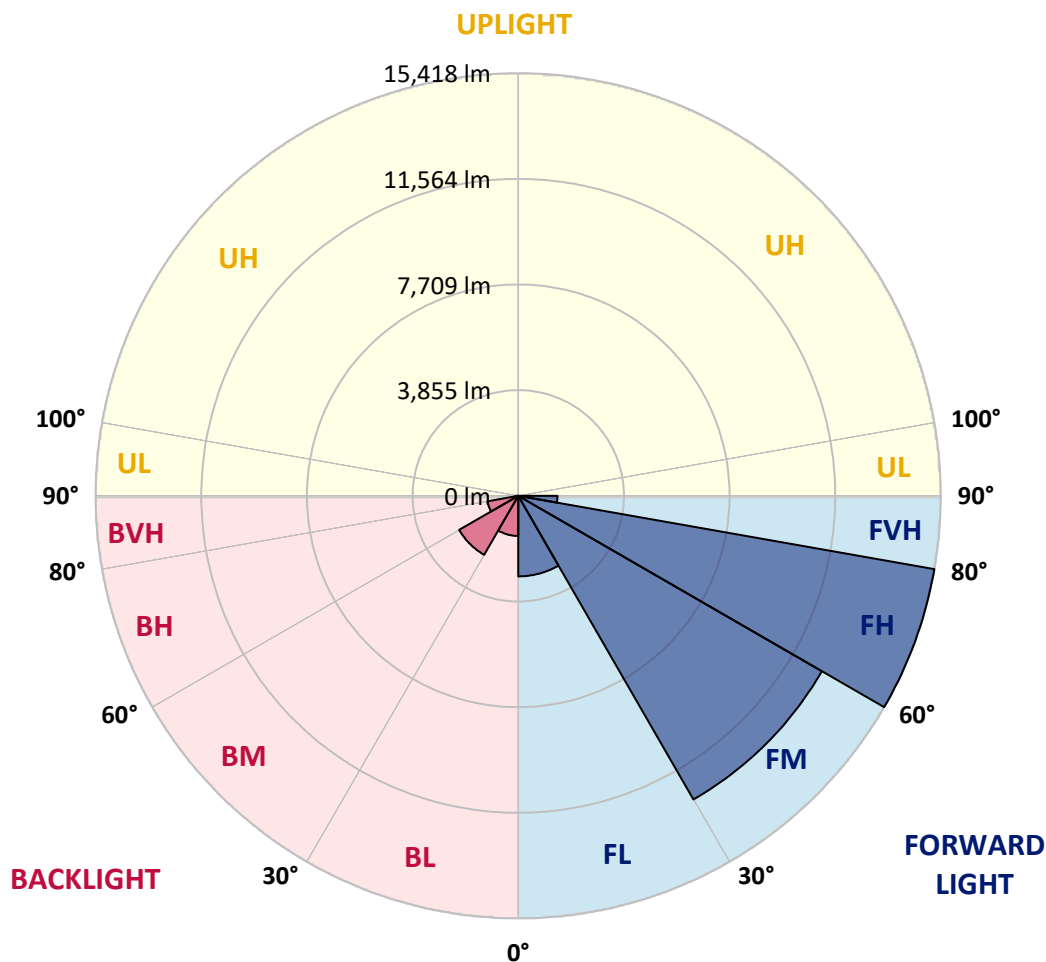
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2939.4	7.8			
FM	(30°-60°)	12791.3	33.9			
FH	(60°-80°)	15418.2	40.8			G5
FVH	(80°-90°)	1429.4	3.8			G5
BL	(0°-30°)	1464.1	3.9	B3/2500		
BM	(30°-60°)	2487.3	6.6	B2/2500		
BH	(60°-80°)	1142.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	103.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0
2.5°	6883.5	6884.9	6883.5	6872.9	6847.6	6826.3	6809.0	6783.7	6727.8	6685.3	6621.4
5°	6948.7	6940.7	6935.4	6915.5	6875.5	6851.6	6818.3	6770.4	6678.6	6593.4	6489.7
7.5°	6918.1	6908.8	6896.8	6872.9	6827.6	6807.7	6761.1	6698.6	6588.1	6476.3	6327.3
10°	6823.6	6821.0	6815.7	6810.3	6771.8	6755.8	6713.2	6646.7	6537.6	6401.8	6227.5
12.5°	6718.5	6725.2	6746.5	6774.4	6757.1	6749.1	6722.5	6677.3	6565.5	6419.1	6208.9
15°	6652.0	6670.6	6727.8	6801.0	6815.7	6813.0	6806.3	6777.1	6658.6	6496.3	6251.5
17.5°	6629.4	6660.0	6769.1	6890.2	6932.8	6942.1	6944.7	6894.2	6762.4	6590.8	6295.4
20°	6670.6	6709.2	6868.9	7035.2	7103.1	7108.4	7096.4	7008.6	6860.9	6672.0	6319.3
22.5°	6795.7	6830.3	7029.9	7217.5	7294.7	7302.7	7266.8	7133.7	6964.7	6767.8	6352.6
25°	7036.6	7079.1	7278.7	7466.4	7506.3	7507.6	7455.7	7290.7	7100.4	6902.2	6424.4
27.5°	7350.6	7393.2	7572.8	7756.4	7735.2	7723.2	7652.7	7487.7	7277.4	7087.1	6552.2
30°	7700.6	7747.1	7917.5	8047.9	7997.3	7973.3	7916.1	7703.2	7523.6	7339.9	6747.8
32.5°	8062.5	8105.1	8254.1	8343.3	8279.4	8268.8	8182.3	7988.0	7844.3	7725.8	7064.5
35°	8433.8	8464.4	8610.7	8661.3	8576.1	8573.5	8549.5	8371.2	8280.7	8336.6	7524.9
37.5°	8813.0	8821.0	8946.1	8948.7	8923.4	8934.1	8959.4	8847.6	8872.9	9047.2	8123.7
40°	9151.0	9172.3	9262.8	9290.7	9334.6	9371.9	9498.3	9425.1	9620.7	9929.4	8868.9
42.5°	9401.1	9442.4	9587.4	9659.3	9801.7	9860.2	10038.5	10106.4	10500.3	10963.3	9755.1
45°	9612.7	9676.6	9909.5	10057.2	10298.0	10400.5	10656.0	10883.5	11494.3	12085.1	10687.9
47.5°	9841.6	9922.8	10214.2	10496.3	10823.6	10939.4	11403.8	11744.4	12554.8	13213.5	11567.5
50°	10178.3	10240.8	10525.6	10968.7	11377.2	11526.2	12168.9	12657.3	13632.7	14288.7	12329.9
52.5°	10648.0	10624.0	10864.9	11486.3	12034.5	12218.2	12986.0	13628.7	14725.1	15261.4	12974.0
55°	11120.4	11080.4	11249.4	12027.9	12801.0	12993.9	13885.5	14604.0	15764.4	16137.0	13467.7
57.5°	11646.0	11570.1	11712.5	12638.7	13673.9	13904.1	14892.8	15640.6	16786.3	16844.9	13781.7
60°	12187.6	12085.1	12244.8	13395.8	14782.4	15053.8	16071.8	16651.9	17749.7	17411.7	13882.8
62.5°	12661.3	12589.4	12835.6	14240.8	16031.8	16329.9	17229.4	17727.1	18699.8	17647.3	13518.2
65°	13075.1	13087.1	13512.9	15190.9	17425.1	17743.1	18557.4	19052.5	19447.7	17507.6	12665.3
67.5°	13568.8	13636.7	14363.2	16441.7	19178.9	19527.5	20489.6	20497.6	19865.5	16687.9	10986.0
70°	14288.7	14428.4	15532.8	18176.9	21672.5	22151.6	22894.1	21346.5	19278.7	14465.7	8644.0
72.5°	14927.4	15188.2	16777.0	20162.2	24711.8	25075.0	24300.6	20856.8	16826.3	10840.9	5385.2
74°	14667.9	14991.3	17003.2	21140.3	25856.1	26030.5	23825.6	19427.7	14029.2	7507.6	3129.7
75°	14109.0	14460.3	16673.2	21131.0	25711.1	25614.0	22678.5	17795.0	11554.2	5120.4	2082.5
77.5°	11386.5	11757.8	14049.2	18110.3	21081.7	20989.9	17421.1	11937.4	5060.5	1679.3	1057.9
80°	6620.1	6903.5	8721.2	11500.9	14215.5	14381.8	11457.0	5906.8	1990.7	943.4	717.2
82.5°	2940.8	3136.4	4212.9	5870.9	8578.8	8793.0	6000.0	3095.1	1229.5	573.5	431.1
85°	1929.5	2074.5	2557.5	2795.7	4085.1	4231.5	2936.8	2409.8	811.7	315.4	316.7
87.5°	1387.9	1527.6	1900.2	1659.3	1874.9	1775.1	1598.1	2230.2	326.0	179.6	106.5
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°	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0	6656.0
2.5°	6593.4	6572.2	6524.2	6433.8	6383.2	6340.6	6270.1	6228.8	6210.2	6208.9	6216.9
5°	6429.8	6380.5	6256.8	6105.1	5984.0	5873.6	5736.5	5654.0	5595.4	5560.8	5570.2
7.5°	6239.5	6162.3	5968.0	5725.9	5531.6	5317.3	5105.8	4979.3	4880.9	4807.7	4821.0
10°	6109.1	6002.6	5719.2	5370.6	5047.2	4735.8	4444.4	4270.1	4131.7	4025.3	4033.2
12.5°	6065.2	5921.5	5528.9	5063.2	4609.4	4183.6	3803.0	3535.6	3393.2	3272.1	3281.4
15°	6071.8	5878.9	5369.2	4786.4	4215.5	3679.3	3217.5	2904.8	2711.9	2628.1	2629.4
17.5°	6077.1	5829.6	5201.6	4489.7	3825.7	3208.2	2706.6	2389.9	2207.6	2130.4	2131.7
20°	6059.8	5749.8	4994.0	4149.0	3418.5	2775.8	2290.1	2021.3	1882.9	1823.0	1823.0
22.5°	6037.2	5655.3	4759.8	3807.0	3016.6	2400.5	1992.0	1787.1	1707.2	1667.3	1666.0
25°	6047.9	5584.8	4520.3	3455.7	2646.7	2101.1	1793.7	1658.0	1604.8	1579.5	1578.2
27.5°	6105.1	5551.5	4299.4	3105.8	2323.3	1876.2	1660.7	1564.9	1530.3	1514.3	1514.3
30°	6208.9	5551.5	4069.2	2807.7	2054.5	1709.9	1558.2	1493.0	1469.1	1458.4	1458.4
32.5°	6389.9	5582.1	3847.0	2512.3	1840.3	1579.5	1473.0	1429.1	1410.5	1405.2	1405.2
35°	6701.2	5685.9	3630.1	2232.9	1667.3	1473.0	1391.9	1366.6	1353.3	1352.0	1355.9
37.5°	7139.0	5897.5	3426.5	2026.6	1544.9	1386.6	1324.0	1304.1	1296.1	1302.7	1308.0
40°	7689.9	6184.9	3241.5	1840.3	1451.8	1317.4	1261.5	1248.2	1244.2	1253.5	1261.5
42.5°	8355.2	6573.5	3089.8	1705.9	1379.9	1258.8	1208.2	1192.3	1188.3	1198.9	1209.6
45°	9075.1	6991.3	2983.4	1606.1	1324.0	1214.9	1161.7	1144.4	1136.4	1141.7	1153.7
47.5°	9729.8	7386.5	2940.8	1535.6	1270.8	1177.6	1120.4	1099.1	1085.8	1083.2	1092.5
50°	10282.0	7680.6	2960.7	1493.0	1228.2	1136.4	1080.5	1056.5	1036.6	1024.6	1031.3
52.5°	10683.9	7865.6	2979.4	1474.4	1194.9	1091.1	1036.6	1014.0	987.4	967.4	967.4
55°	10975.3	7908.1	2938.1	1459.7	1169.7	1041.9	987.4	966.1	939.4	916.8	914.2
57.5°	11089.8	7788.4	2785.1	1438.4	1152.4	995.3	935.5	919.5	896.9	870.3	868.9
60°	10935.4	7418.5	2489.7	1393.2	1129.7	956.7	883.6	872.9	862.3	837.0	835.7
62.5°	10315.3	6606.8	2107.8	1301.4	1084.5	915.5	835.7	841.0	842.3	825.0	822.4
65°	9190.9	5491.7	1735.2	1181.6	1016.6	866.3	786.4	811.7	826.3	823.7	819.7
67.5°	7556.8	4274.1	1470.4	1055.2	927.5	798.4	733.2	762.5	774.4	783.8	781.1
70°	5608.8	3014.0	1216.2	922.2	819.7	718.6	664.0	678.6	670.7	681.3	685.3
72.5°	3127.1	1808.4	991.3	789.1	707.9	625.4	586.8	584.2	566.9	566.9	566.9
74°	1876.2	1326.7	871.6	706.6	640.0	564.2	530.9	519.0	503.0	504.3	503.0
75°	1509.0	1140.4	799.7	652.0	592.1	528.3	495.0	479.0	467.1	467.1	465.7
77.5°	952.8	866.3	644.0	519.0	473.7	435.1	412.5	391.2	391.2	389.9	388.6
80°	719.9	689.3	501.7	392.5	363.3	334.0	319.4	310.0	310.0	314.0	312.7
82.5°	493.7	519.0	352.6	274.1	259.5	238.2	235.5	236.9	232.9	227.5	226.2
85°	360.6	389.9	238.2	173.0	158.3	145.0	155.7	161.0	154.4	142.4	137.1
87.5°	138.4	255.5	127.7	71.9	66.5	57.2	66.5	69.2	74.5	58.5	59.9
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
 Rf: 81.5
 Rg: 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

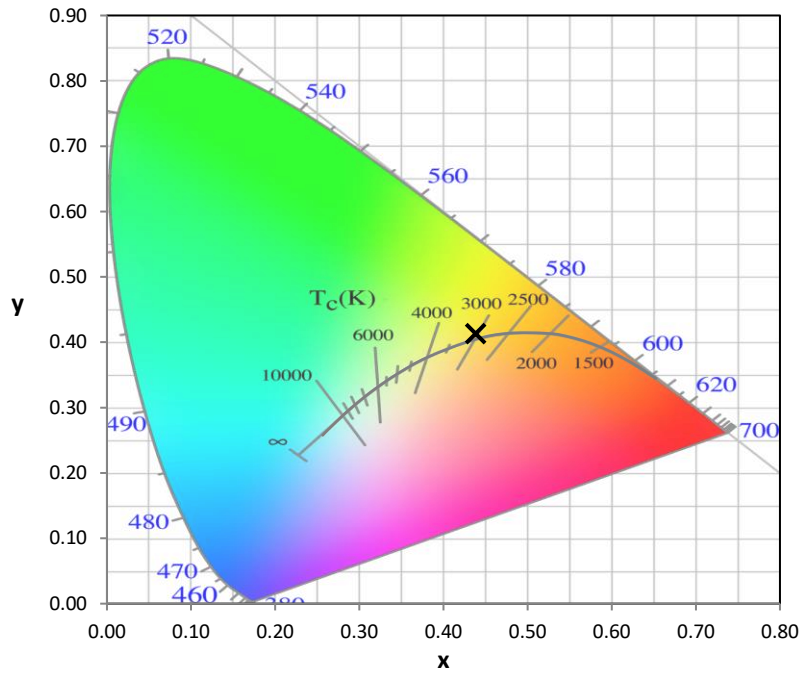
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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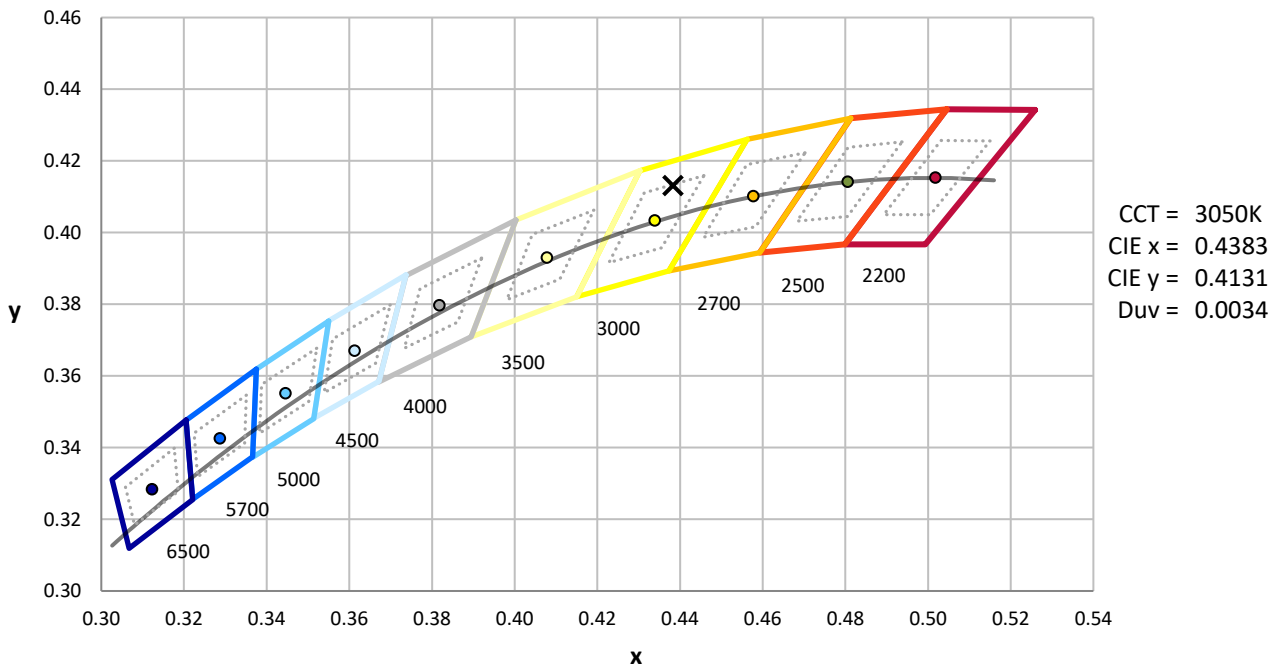
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

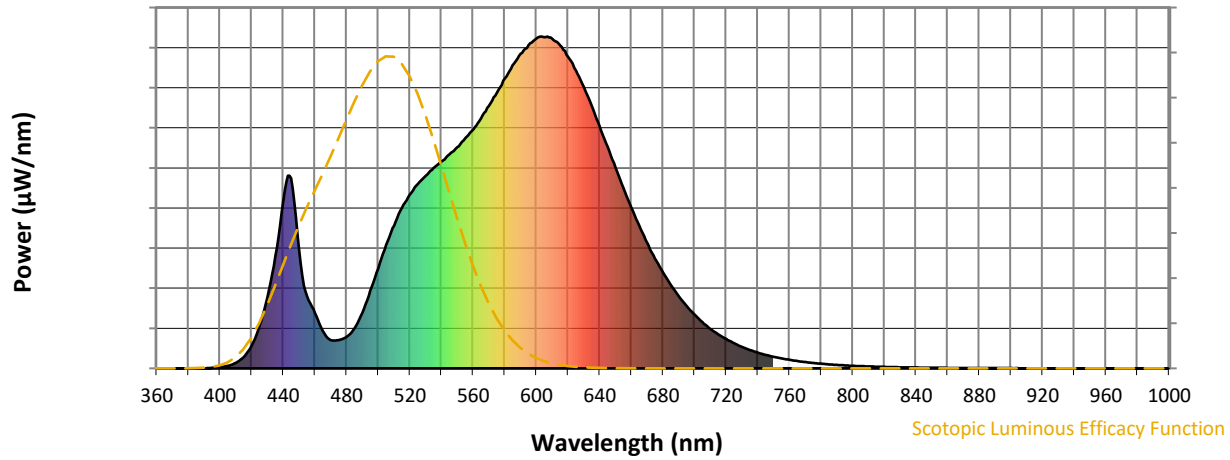


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Scotopic Flux vs. Wavelength



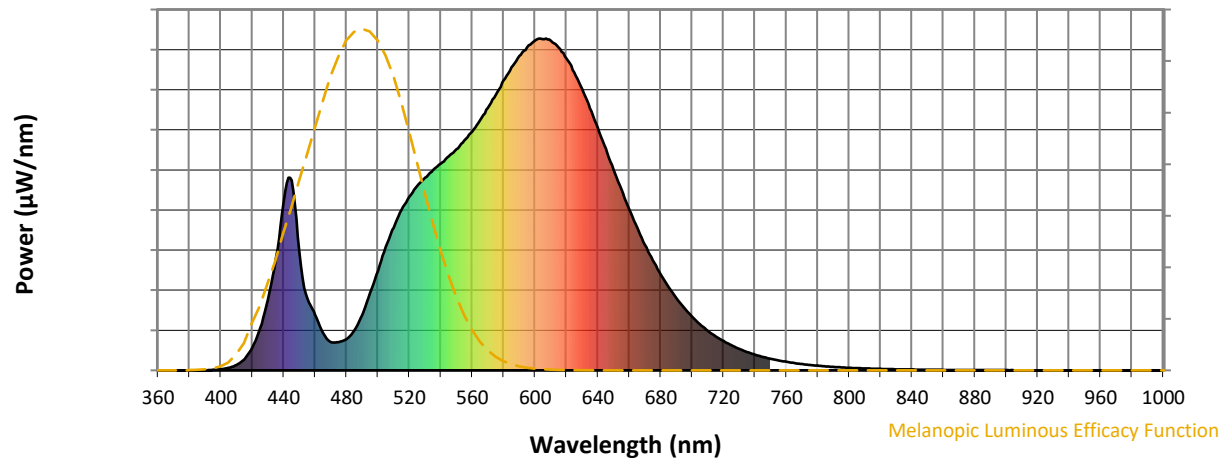
Scotopic Lumens: NR

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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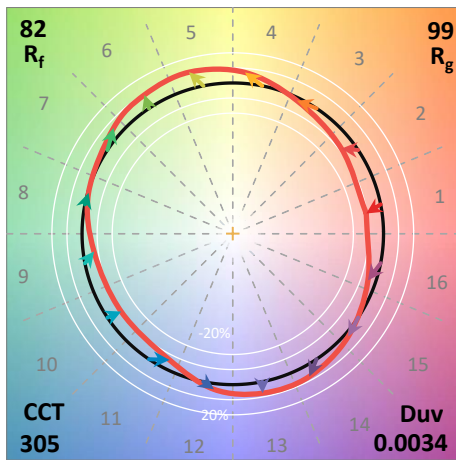
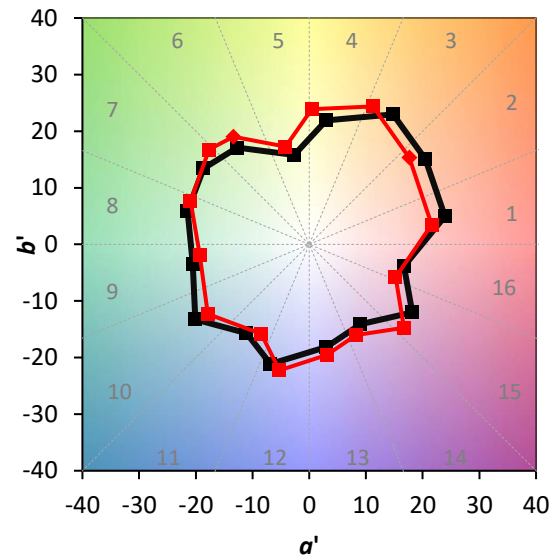
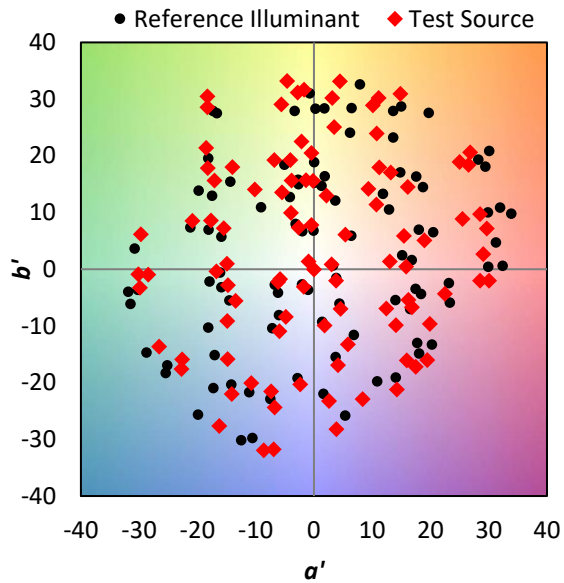
TM-30-18

Summary

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

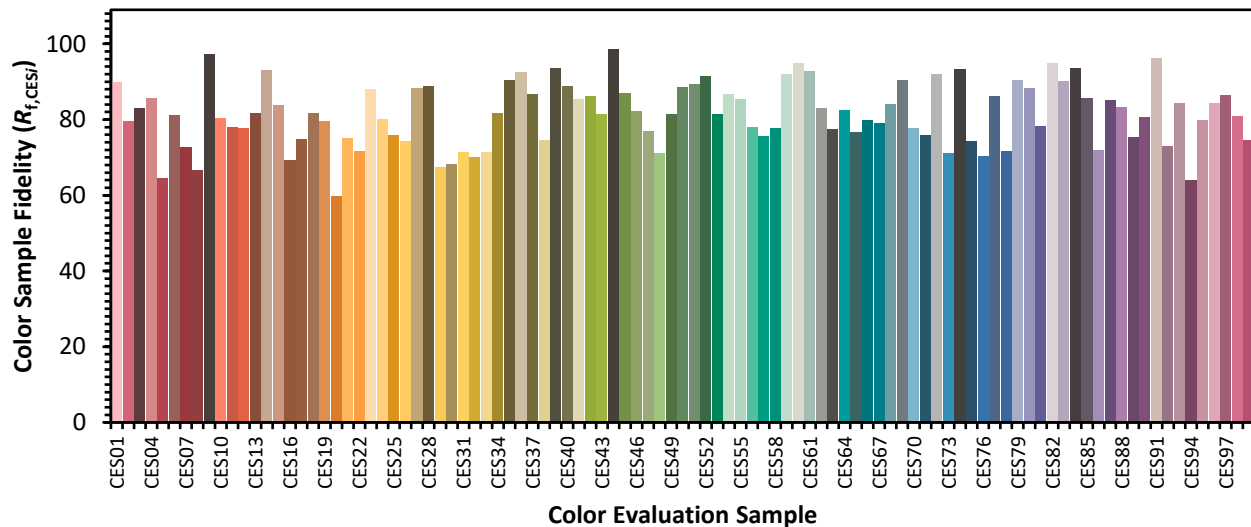


Color Vector Graphics

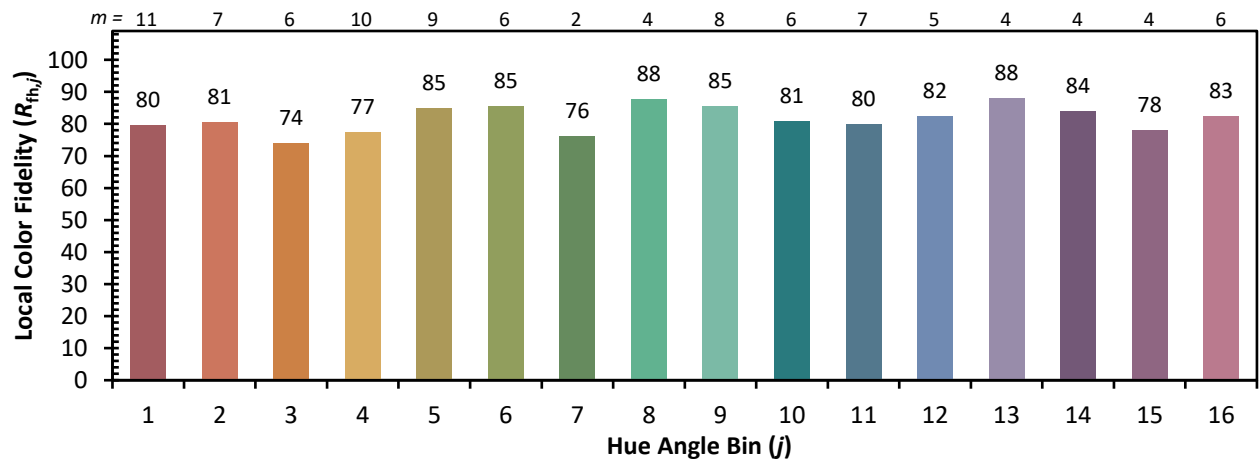
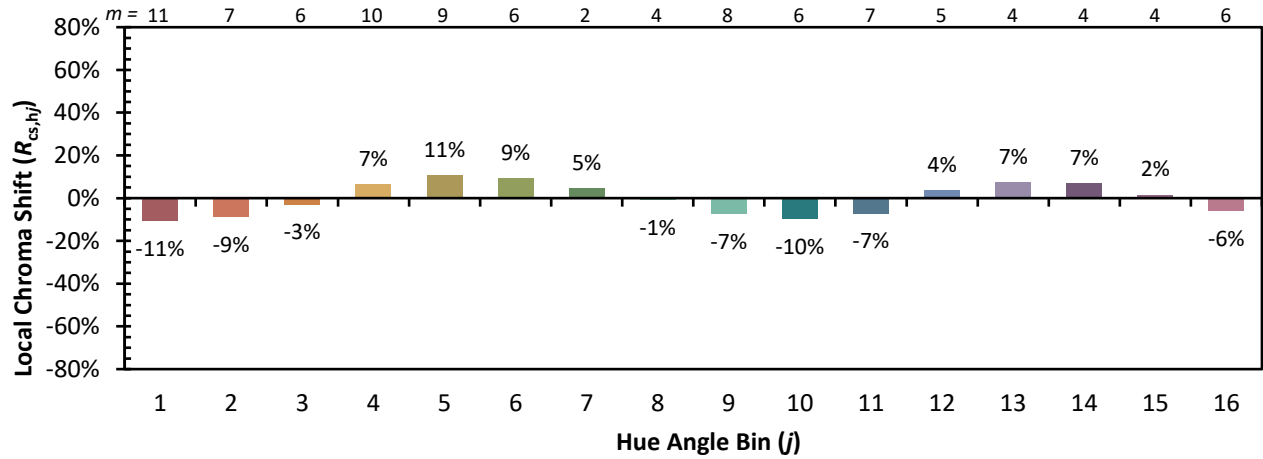


Individual Sample Fidelity Index ($R_{f,i}$)

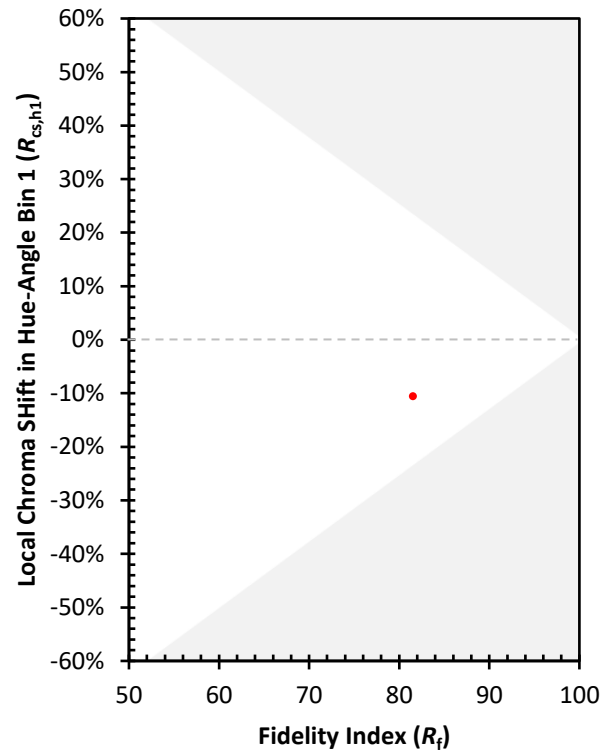
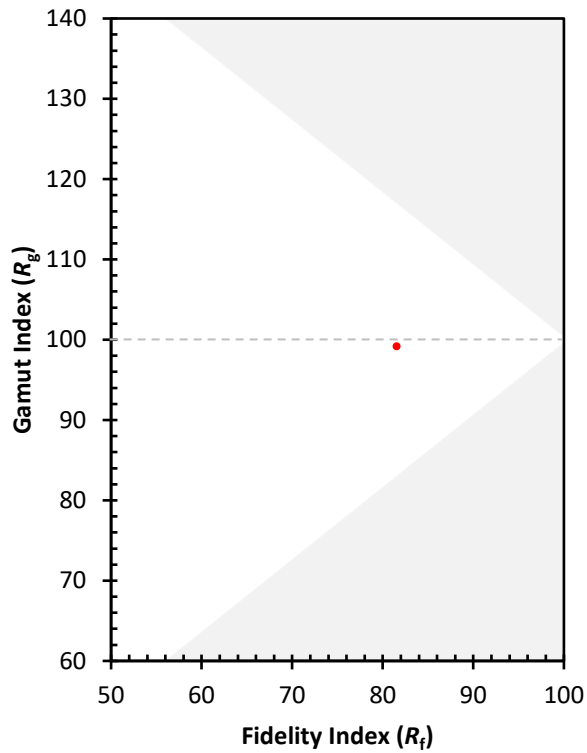
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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