

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P630567

Luminaire Tested: GWS-SA1D-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

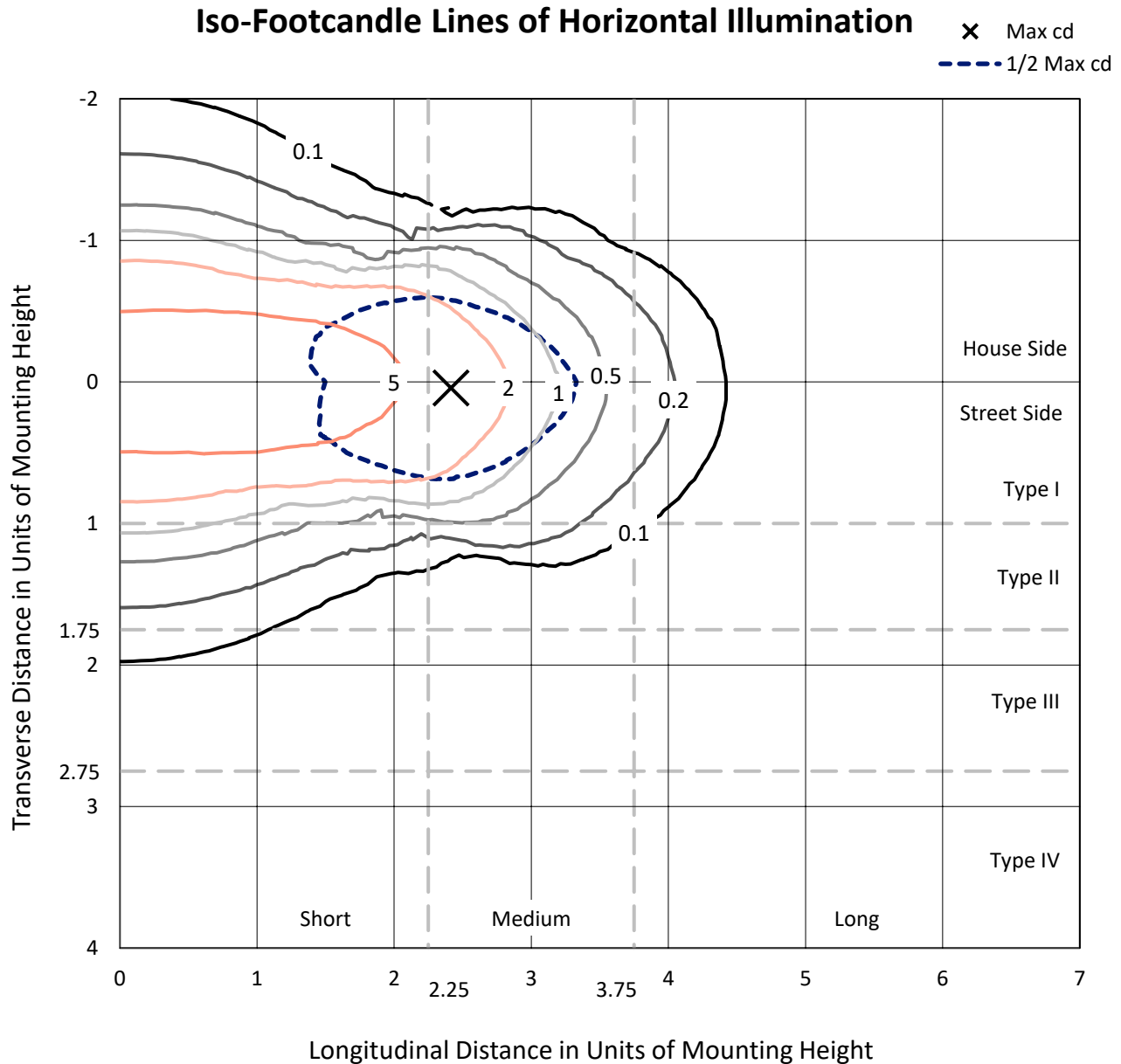
Lumens per Lamp: N/A
Luminaire Lumens: 4808.2 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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CATALOG NUMBER: GWS-SA1D-830-U-T1-W

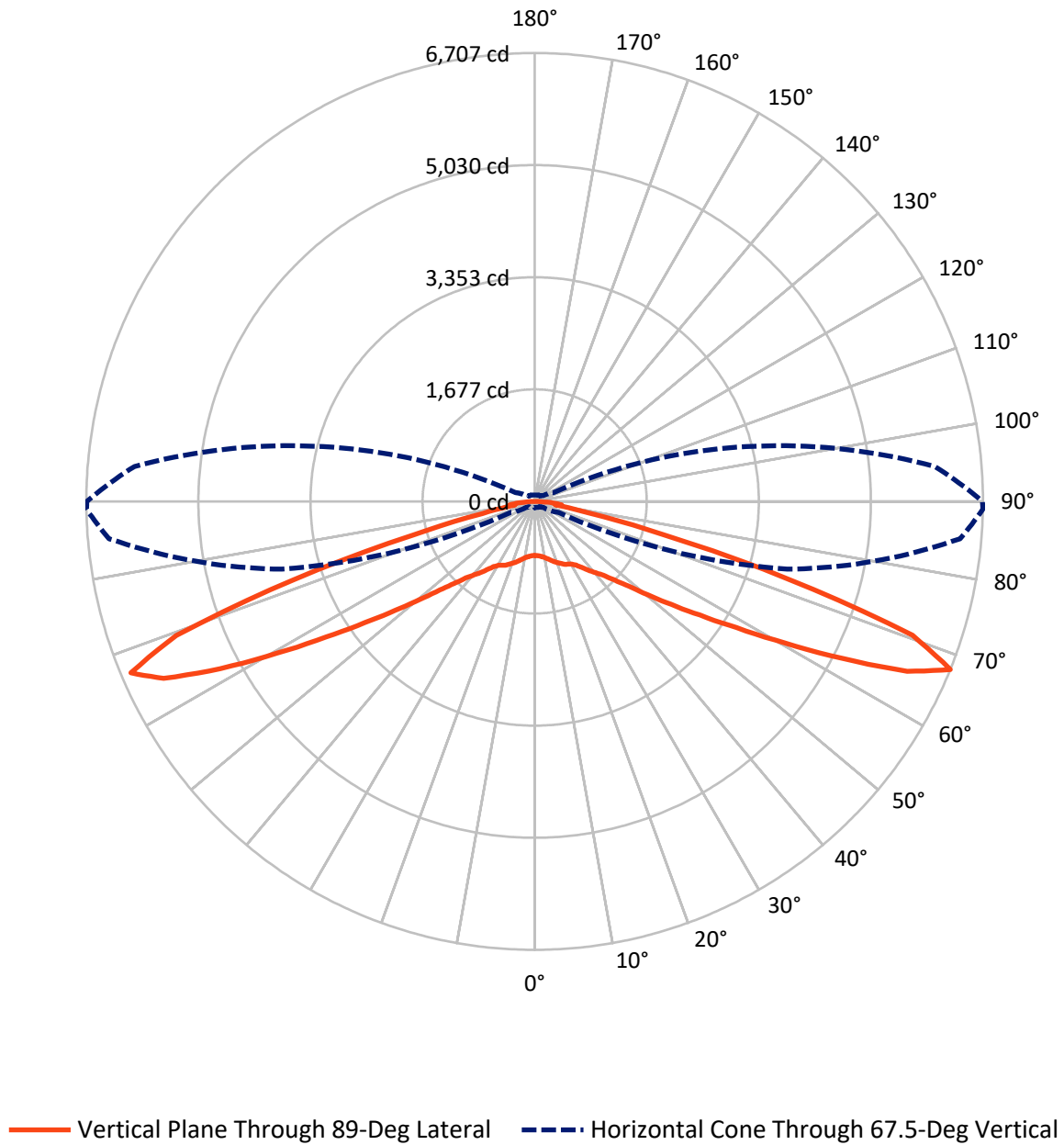


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Medium - N/A

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CATALOG NUMBER: GWS-SA1D-830-U-T1-W

Luminous Intensity Polar Plot



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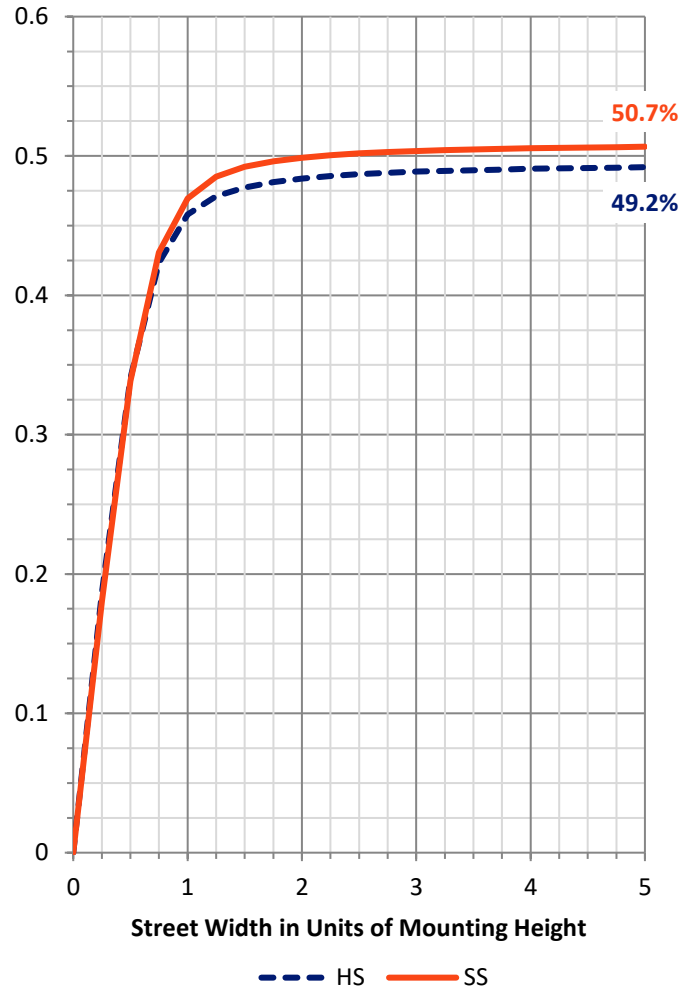
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2383.0	0.0	2383.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	2425.2	0.0	2425.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	4808.2	0.0	4808.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.7
10°-20°	263.6	5.5
20°-30°	445.6	9.3
30°-40°	611.5	12.7
40°-50°	779.8	16.2
50°-60°	978.4	20.3
60°-70°	1180.0	24.5
70°-80°	426.9	8.9
80°-90°	41.5	0.9
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°	4808.2	100.0
0°-180°	4808.2	100.0

Coefficient of Utilization



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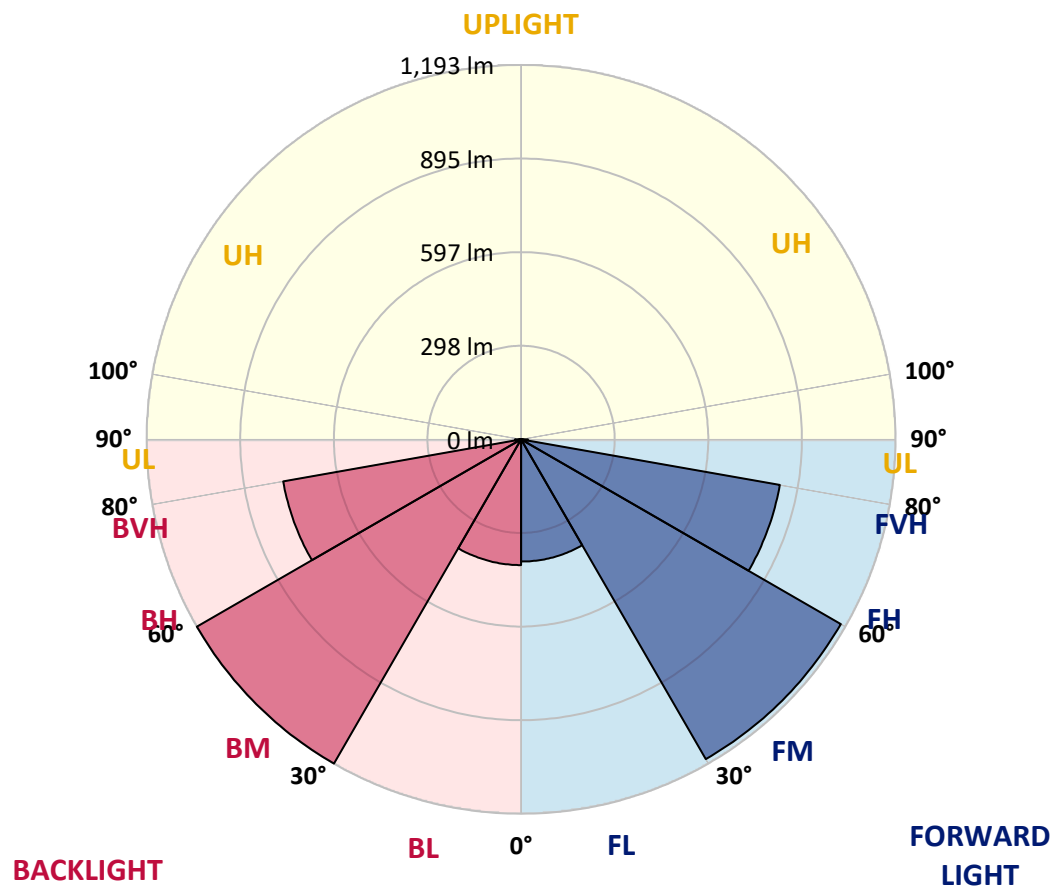
CATALOG NUMBER: GWS-SA1D-830-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.4	8.1			
FM	(30°-60°)	1176.7	24.5			
FH	(60°-80°)	837.2	17.4			G1/1800
FVH	(80°-90°)	21.9	0.5			G1/100
BL	(0°-30°)	400.7	8.3	B1/500		
BM	(30°-60°)	1193.0	24.8	B2/2500		
BH	(60°-80°)	769.7	16.0	B2/1000		G2/1000
BVH	(80°-90°)	19.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0
2.5°	809.4	808.7	807.0	812.2	811.2	811.5	813.6	812.2	809.8	805.6	811.5
5°	832.2	831.9	828.1	831.2	827.7	825.3	825.0	821.5	818.8	814.3	820.5
7.5°	854.3	854.0	850.9	856.4	853.6	850.9	847.8	840.9	834.3	827.7	834.6
10°	871.2	870.9	870.2	878.2	878.8	879.9	878.5	866.8	855.4	847.4	854.3
12.5°	880.9	882.0	883.7	898.2	905.4	912.3	914.1	904.4	885.4	874.0	882.3
15°	874.4	876.4	885.1	911.3	931.3	946.9	953.4	945.5	921.0	902.0	911.3
17.5°	842.9	844.7	861.6	901.6	945.8	981.8	992.5	987.6	960.3	937.2	946.2
20°	799.4	803.2	821.5	877.5	943.4	1005.9	1034.6	1032.9	1003.2	967.6	978.3
22.5°	760.1	764.5	783.9	845.7	927.2	1012.1	1077.1	1081.5	1042.2	998.0	1006.6
25°	715.9	720.0	744.9	808.1	899.2	1007.3	1113.3	1133.7	1086.4	1032.9	1040.8
27.5°	670.6	673.7	698.2	765.6	862.6	998.3	1142.0	1191.0	1129.9	1057.0	1062.6
30°	630.9	635.0	657.5	723.1	822.6	980.4	1165.5	1252.1	1180.0	1084.3	1088.8
32.5°	592.6	596.0	620.5	681.3	780.1	952.7	1186.5	1324.0	1254.2	1135.1	1135.1
35°	544.2	550.4	578.1	641.3	740.0	916.1	1201.7	1407.5	1355.7	1210.0	1210.4
37.5°	499.7	503.1	532.1	596.0	697.9	874.7	1203.1	1494.2	1484.2	1305.3	1306.0
40°	448.9	453.4	484.5	547.7	649.6	831.2	1190.0	1575.0	1618.9	1403.4	1399.6
42.5°	397.5	404.0	433.7	495.5	597.4	778.0	1155.1	1652.0	1789.8	1517.0	1507.7
45°	347.7	351.9	381.6	439.9	537.7	714.5	1099.2	1725.9	1992.9	1689.7	1676.2
47.5°	291.8	293.5	324.3	380.2	475.9	643.7	1019.0	1791.9	2215.9	1918.3	1895.1
50°	242.1	244.5	268.7	316.7	400.2	559.8	919.2	1830.6	2500.1	2230.1	2190.0
52.5°	195.8	198.2	217.6	255.9	330.8	464.1	795.6	1821.6	2788.5	2617.2	2558.8
55°	158.2	159.9	173.0	203.0	260.4	369.1	649.6	1741.1	3108.6	3122.7	2997.1
57.5°	133.6	134.3	143.3	161.6	203.4	284.5	501.4	1551.2	3444.2	3767.8	3561.3
60°	119.5	119.8	124.0	135.4	160.6	217.2	367.4	1248.7	3792.0	4574.8	4291.7
62.5°	110.5	110.5	114.0	120.5	133.3	167.1	270.0	896.8	4041.6	5453.0	5171.5
65°	101.9	101.9	104.3	109.8	116.7	136.4	202.7	578.4	4164.2	6187.1	6124.6
67.5°	90.8	91.2	92.9	98.8	105.0	114.0	153.7	391.2	3909.7	6390.2	6706.5
70°	80.5	80.8	83.2	87.0	92.2	98.4	120.2	269.7	2845.8	5322.1	5996.5
72.5°	69.1	70.4	72.2	76.3	79.4	83.9	98.1	174.7	1655.8	3423.5	3964.0
75°	56.6	58.4	60.4	64.6	66.6	68.4	80.8	124.7	796.7	1734.9	1975.6
77.5°	43.9	45.6	48.0	51.8	53.2	55.3	61.8	90.1	381.6	769.0	829.1
80°	29.4	30.0	32.1	36.6	39.0	40.4	45.6	61.5	165.8	308.7	306.0
82.5°	18.0	18.3	19.0	21.8	22.8	24.2	29.7	37.6	79.1	350.8	402.3
85°	6.6	6.2	5.9	7.6	9.0	10.4	13.8	19.0	34.5	241.0	269.7
87.5°	0.0	0.0	0.0	0.3	0.7	0.7	1.4	2.8	8.3	90.1	61.8
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: GWS-SA1D-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0
2.5°	809.8	806.0	810.8	814.3	821.9	824.6	825.3	822.9	822.9	818.8	819.4
5°	819.1	816.7	824.6	830.5	841.5	845.7	848.5	846.7	847.8	845.0	845.7
7.5°	833.3	831.2	845.0	856.4	867.8	872.6	875.0	873.7	874.0	870.6	871.6
10°	852.9	853.6	870.2	885.1	900.3	905.1	906.1	902.0	898.5	892.3	892.7
12.5°	879.9	883.3	906.8	923.4	938.9	945.8	938.2	923.0	908.9	898.2	896.8
15°	909.2	915.4	949.3	970.4	987.3	983.8	961.4	927.2	899.2	883.3	880.2
17.5°	944.5	953.8	996.3	1021.5	1036.0	1013.9	966.9	915.8	876.8	855.4	851.2
20°	977.6	992.5	1046.0	1078.8	1080.5	1030.8	964.5	892.7	843.6	817.4	811.9
22.5°	1008.0	1027.0	1098.1	1139.9	1117.5	1038.4	949.6	859.9	803.6	772.8	768.0
25°	1041.1	1068.1	1158.9	1197.9	1154.4	1035.3	918.6	819.1	755.2	723.8	720.3
27.5°	1063.9	1097.8	1220.0	1257.3	1184.8	1017.7	878.5	774.6	711.0	681.3	676.5
30°	1090.2	1133.3	1287.4	1321.9	1203.4	991.8	835.7	733.1	669.9	637.8	634.4
32.5°	1137.8	1192.1	1370.9	1390.3	1209.3	959.6	794.6	693.1	627.1	595.0	590.2
35°	1214.5	1278.0	1488.3	1466.6	1204.8	924.4	755.6	646.1	583.2	553.2	548.4
37.5°	1311.2	1390.3	1619.2	1535.3	1192.4	885.8	709.3	606.7	543.9	513.5	510.7
40°	1401.3	1498.7	1766.0	1594.7	1167.2	838.1	664.7	565.6	501.4	469.3	463.1
42.5°	1514.2	1643.7	1935.9	1646.2	1125.7	781.1	614.7	514.9	448.2	419.2	411.6
45°	1685.9	1846.8	2133.4	1695.5	1063.9	711.0	551.8	453.1	389.9	360.2	354.3
47.5°	1900.0	2100.6	2347.5	1724.9	970.0	637.1	480.7	387.8	324.6	291.1	288.3
50°	2200.7	2469.7	2577.1	1719.7	865.0	549.4	400.6	310.1	257.3	233.1	229.3
52.5°	2567.1	2933.2	2825.4	1657.5	753.5	449.6	312.2	243.5	204.1	186.8	183.7
55°	3026.7	3488.1	3086.8	1524.3	612.6	344.3	245.2	192.0	165.1	154.7	153.3
57.5°	3595.8	4206.7	3338.6	1299.8	460.7	262.8	188.9	158.5	145.7	139.5	139.2
60°	4346.9	4969.5	3557.2	1010.1	329.8	201.0	156.1	141.6	131.6	127.4	127.1
62.5°	5239.9	5662.2	3693.2	687.9	247.9	160.2	137.4	128.5	122.6	120.2	119.8
65°	6157.8	6100.1	3628.3	450.6	188.2	136.1	123.3	118.4	113.3	110.8	110.8
67.5°	6699.9	6007.6	3130.0	312.9	149.2	119.5	111.2	106.7	98.1	96.0	96.0
70°	5934.4	4868.0	2051.6	228.9	120.9	104.6	96.7	90.5	87.0	84.9	84.6
72.5°	3924.9	3167.6	1090.9	158.8	100.8	89.1	81.8	79.4	75.3	73.2	72.9
75°	1953.5	1663.8	559.1	114.6	83.9	71.5	68.4	67.3	63.9	61.1	60.4
77.5°	814.3	740.7	260.7	83.2	63.9	57.7	54.9	54.9	51.1	48.0	46.6
80°	307.0	273.5	123.3	57.0	47.3	42.8	41.1	39.7	36.6	32.8	30.7
82.5°	410.6	268.3	60.4	35.6	31.1	27.6	25.2	24.2	22.4	20.7	19.3
85°	265.9	190.6	27.3	18.3	15.5	11.7	10.4	9.7	8.6	7.6	6.9
87.5°	54.2	63.9	8.3	3.5	2.1	1.0	1.0	0.3	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.

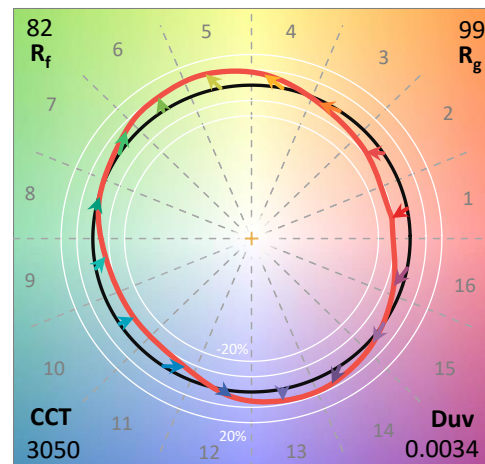
Test Information

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

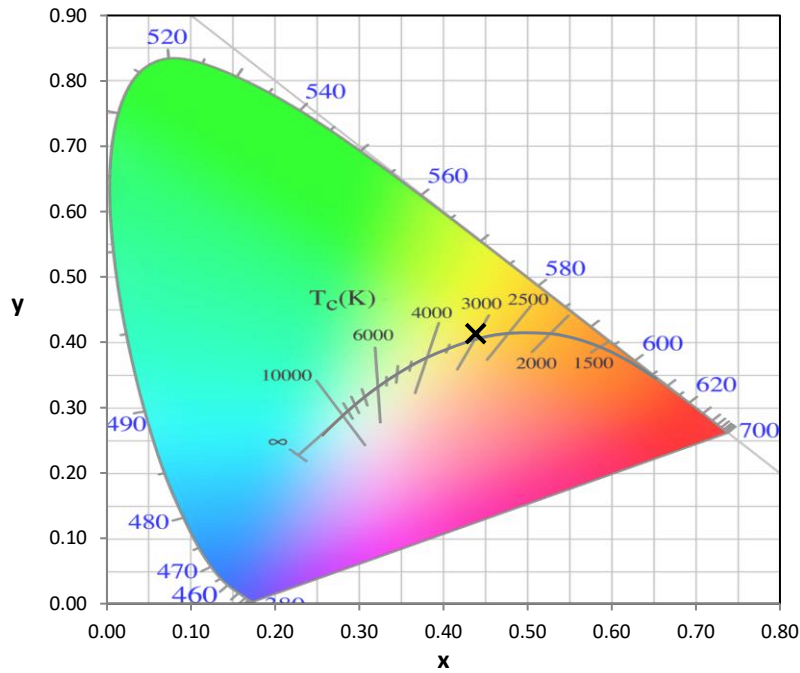
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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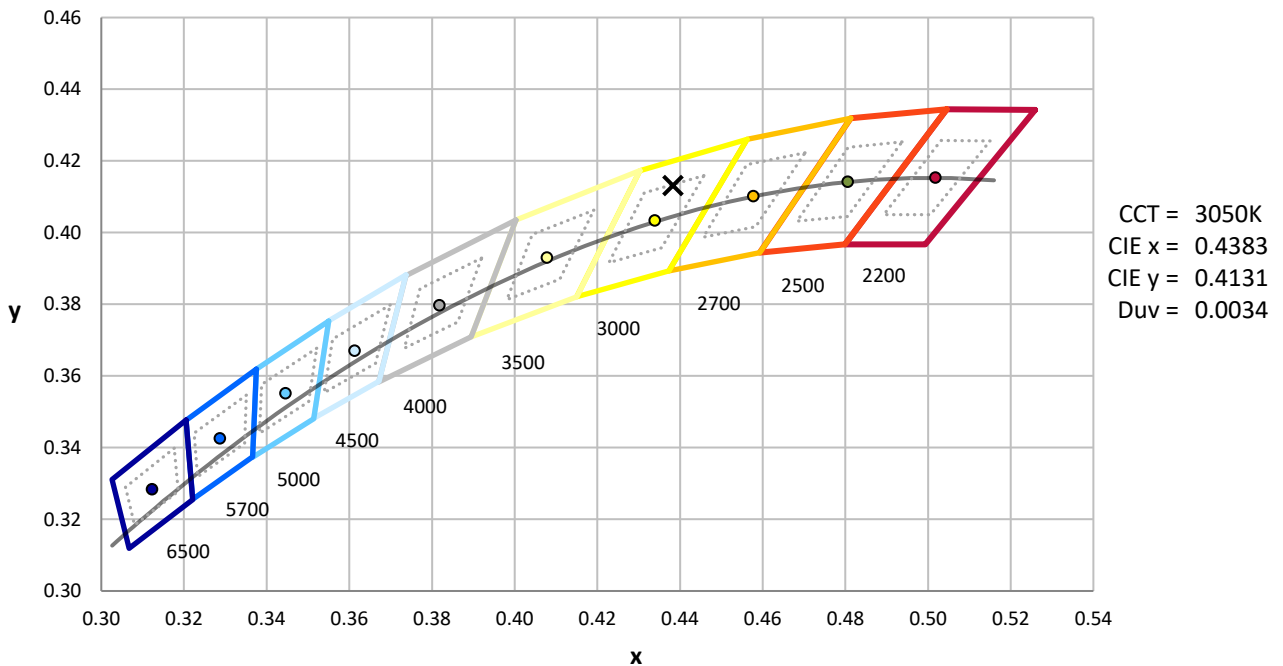
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



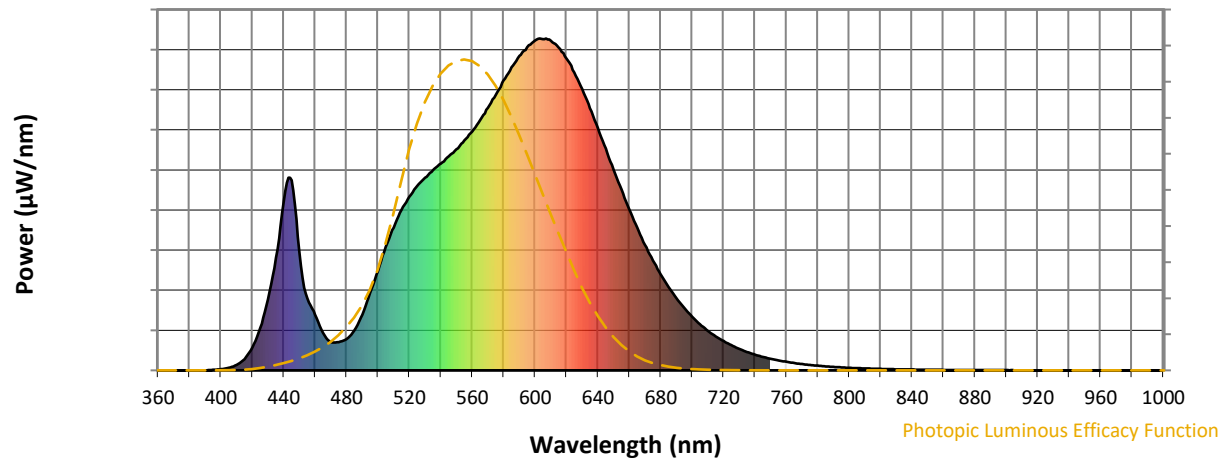
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

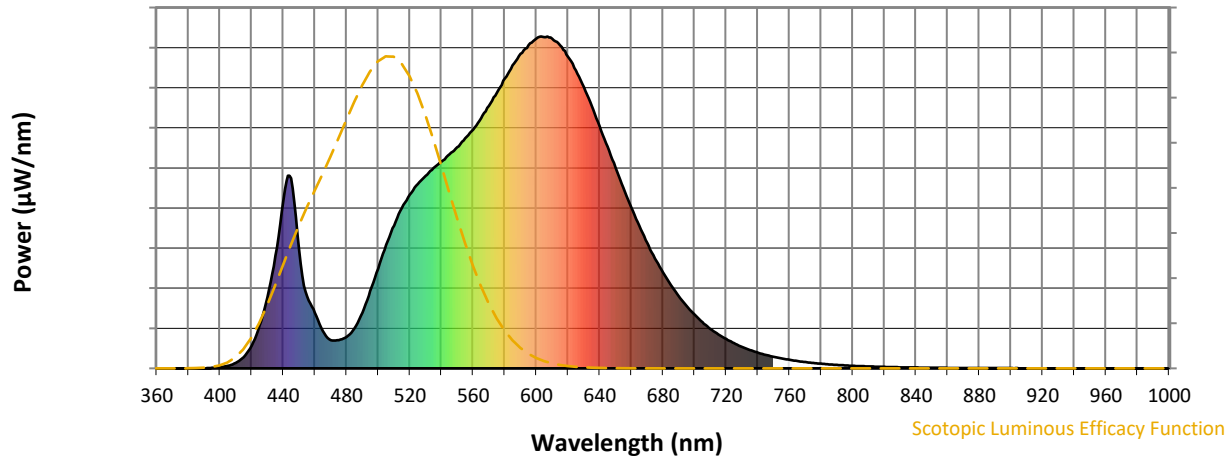


Photopic Lumens: NR

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



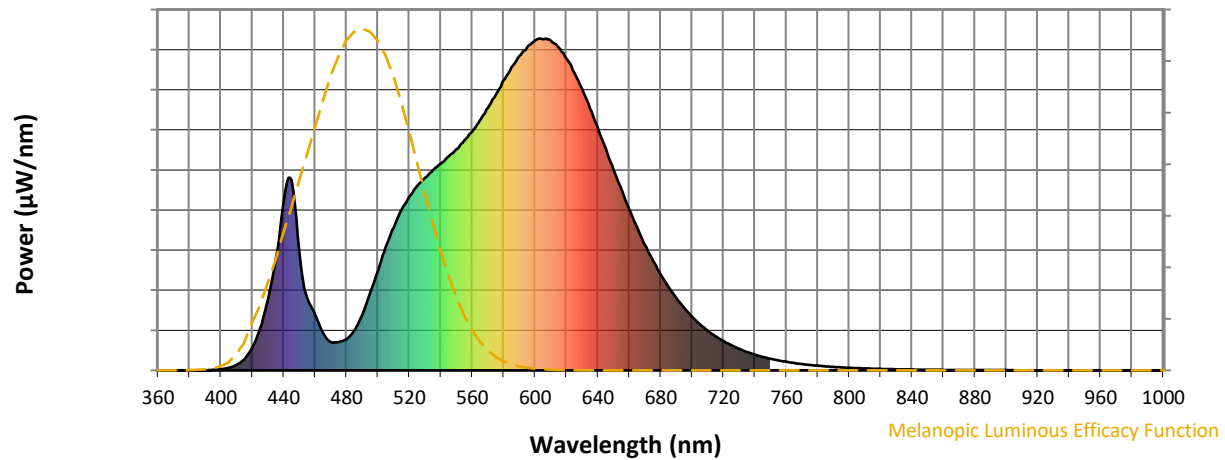
Scotopic Lumens: NR

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

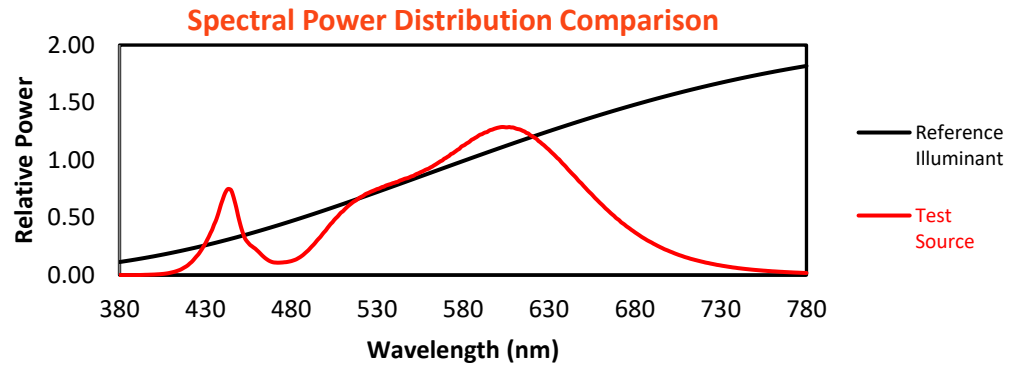
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940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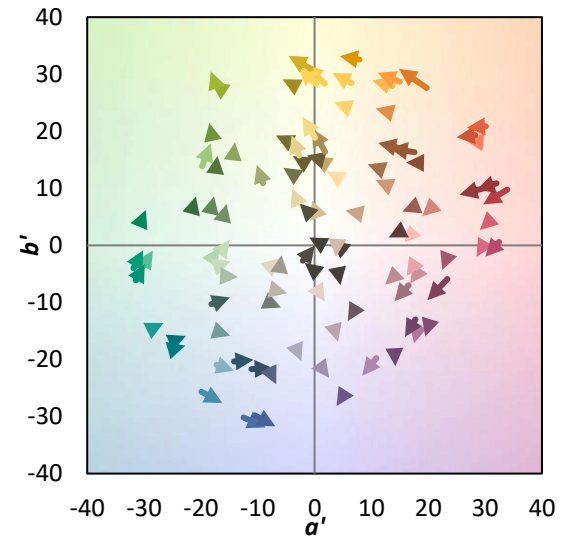
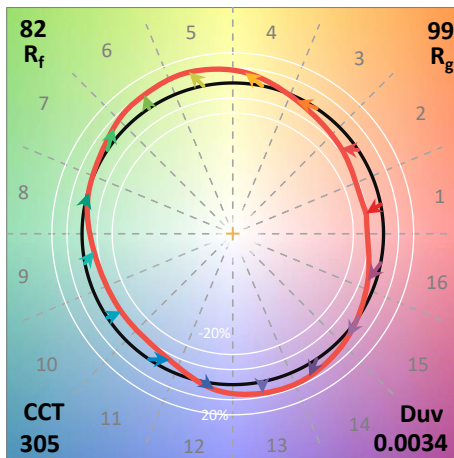
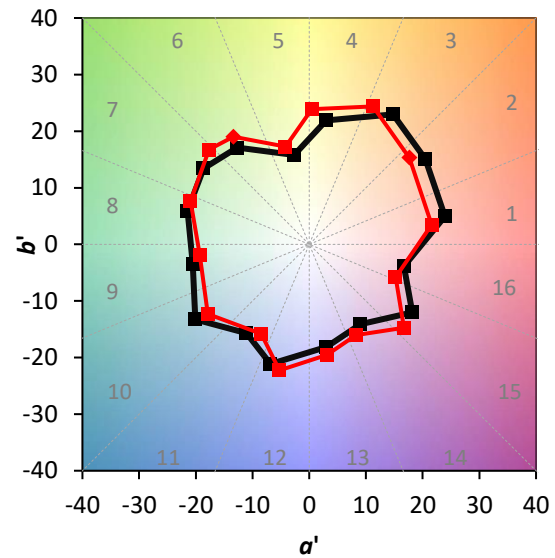
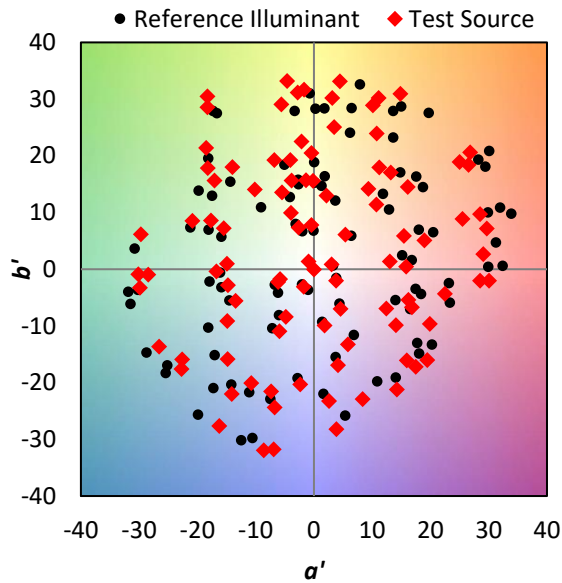
TM-30-18

Summary

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

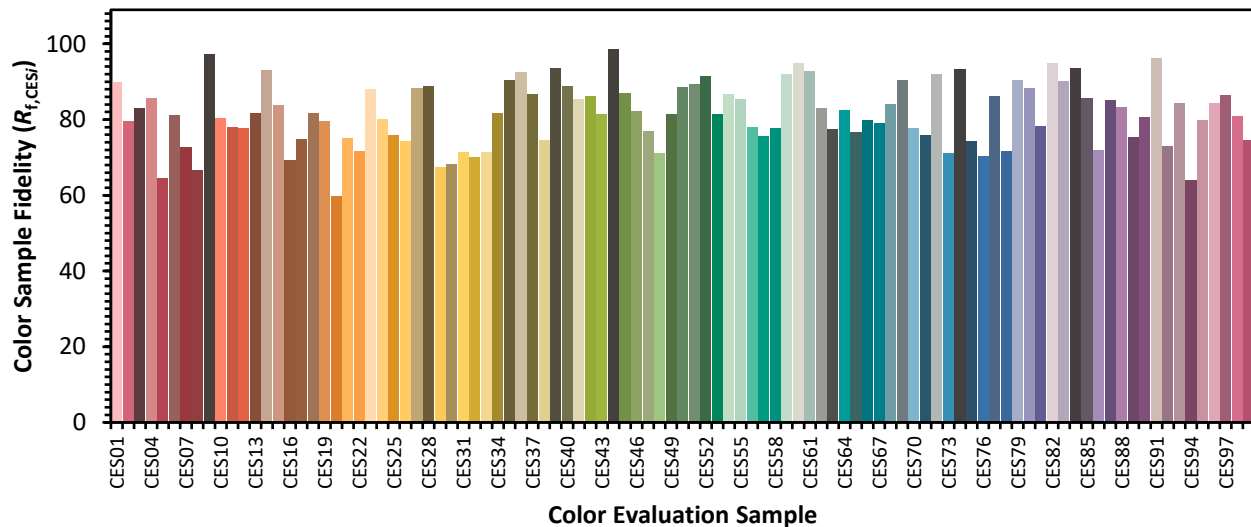


Color Vector Graphics

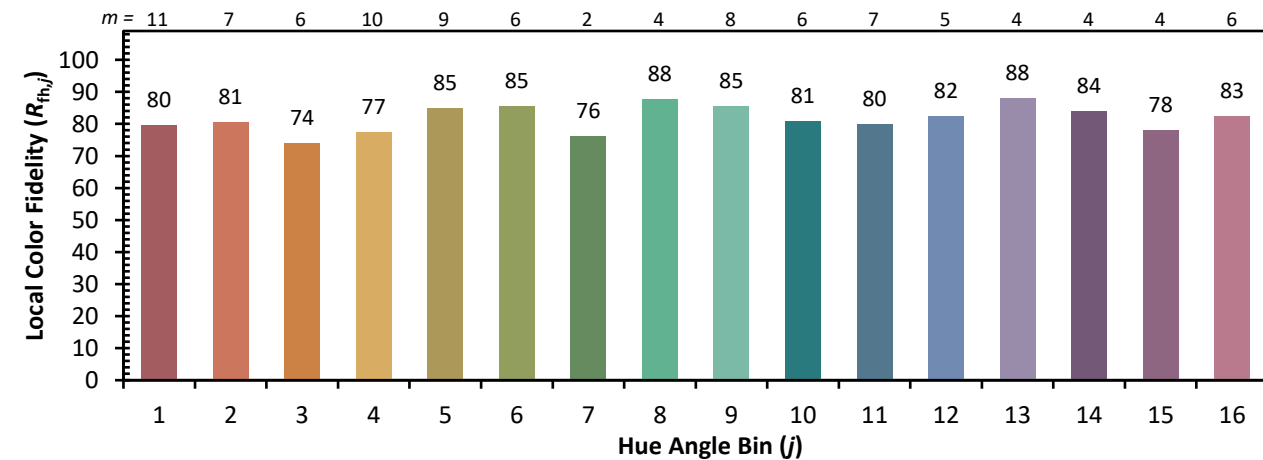
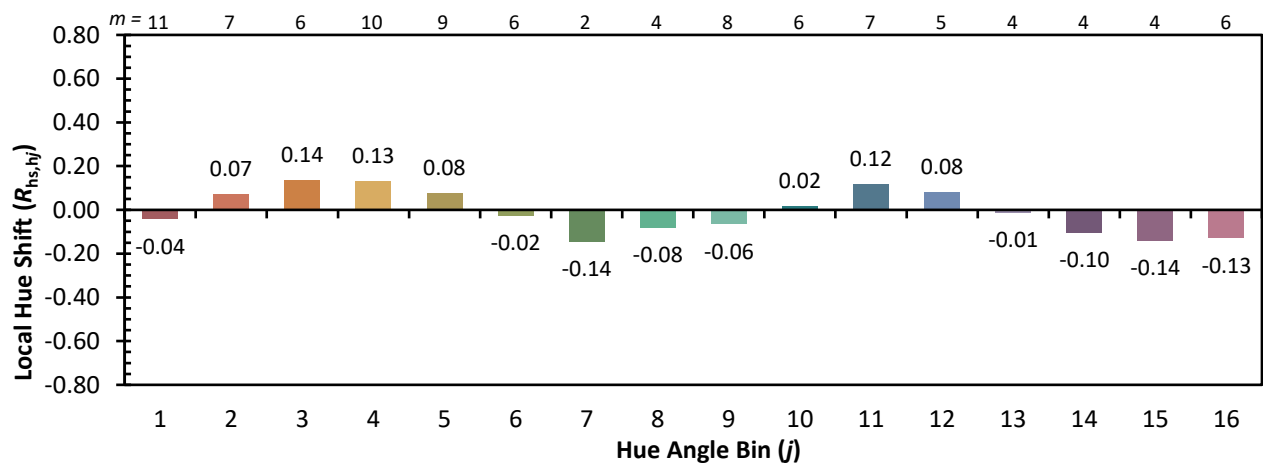
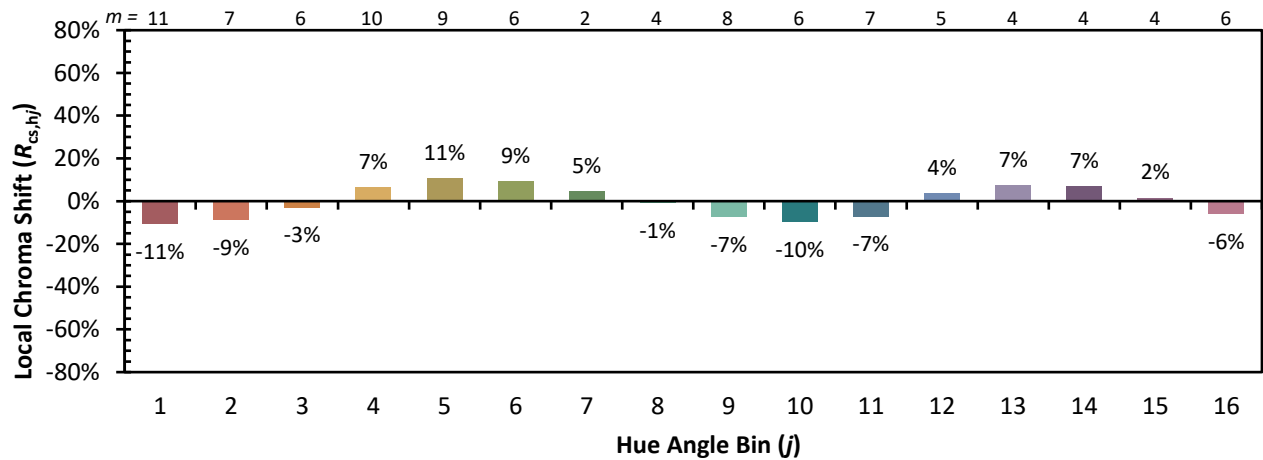


Individual Sample Fidelity Index ($R_{f,i}$)

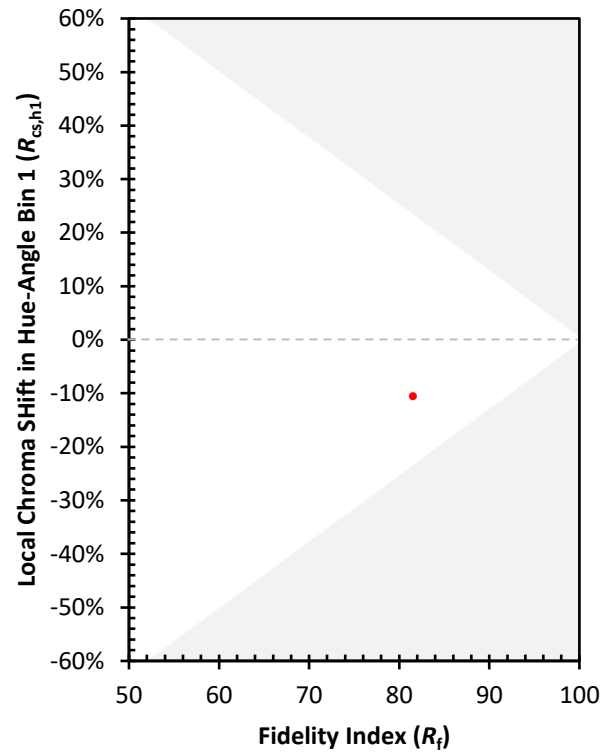
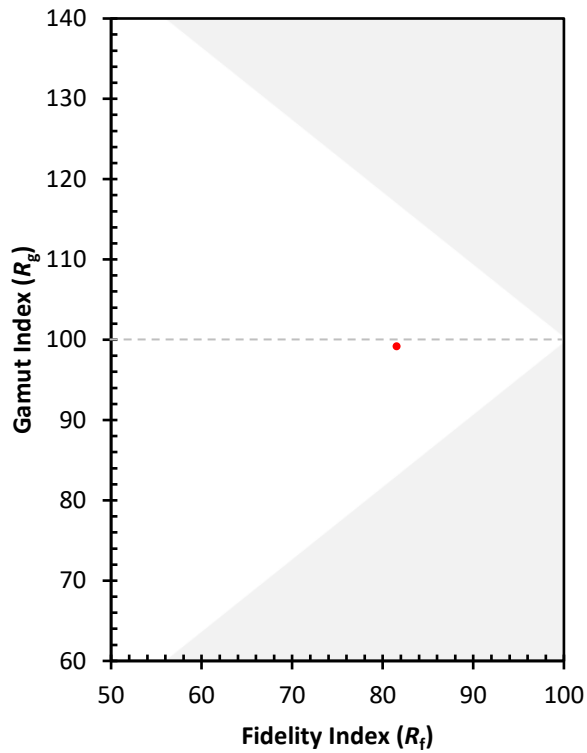
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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