Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P319825

Luminaire Tested: **GLEON-SA1A-830-U-SL3**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P319825
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1A-830-U-SL3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3877 lumens
Efficiency:	N/A
Efficacy:	114.0 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):	34
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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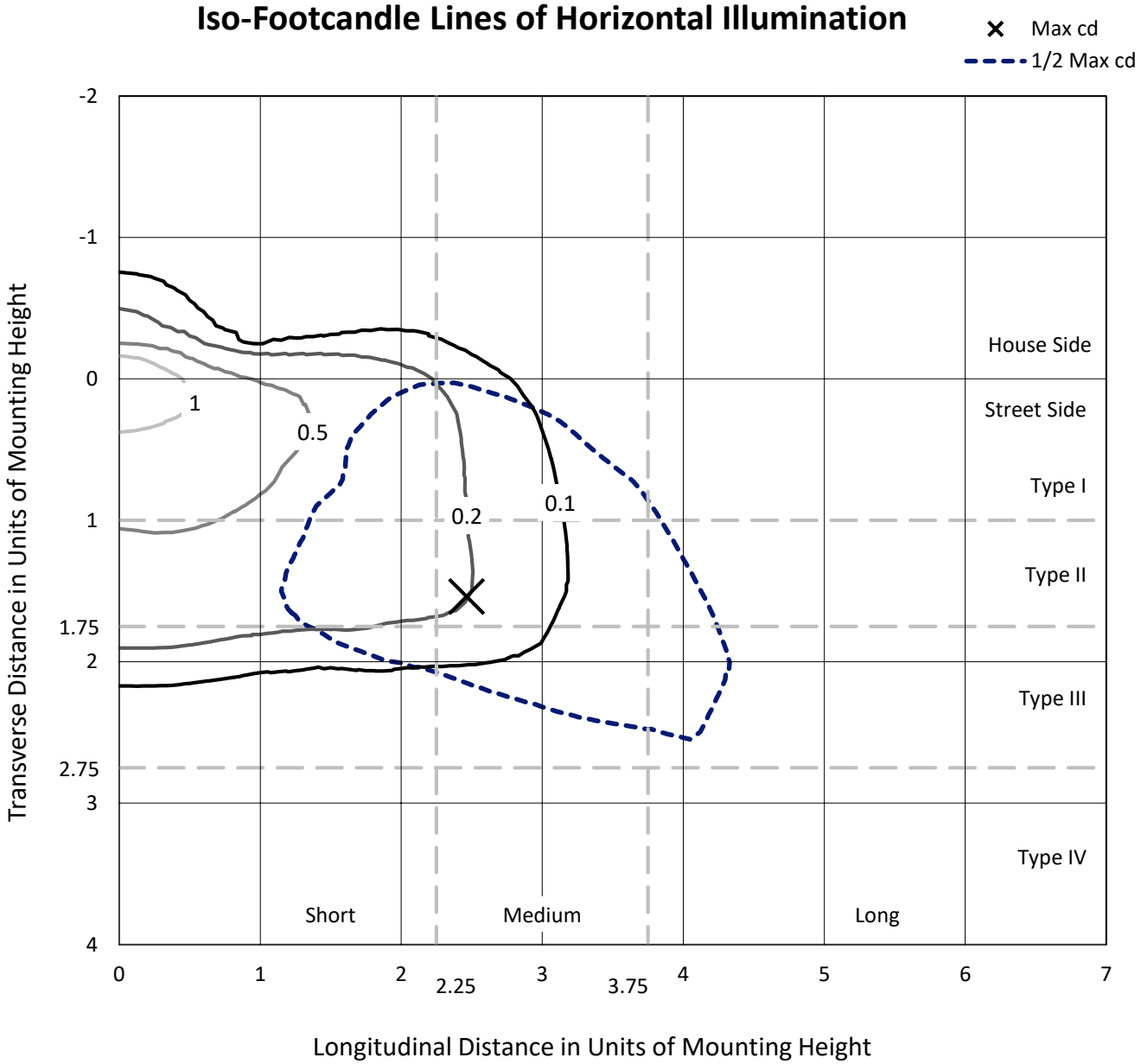
REPORT NUMBER: P319825
CATALOG NUMBER: GLEON-SA1A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



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

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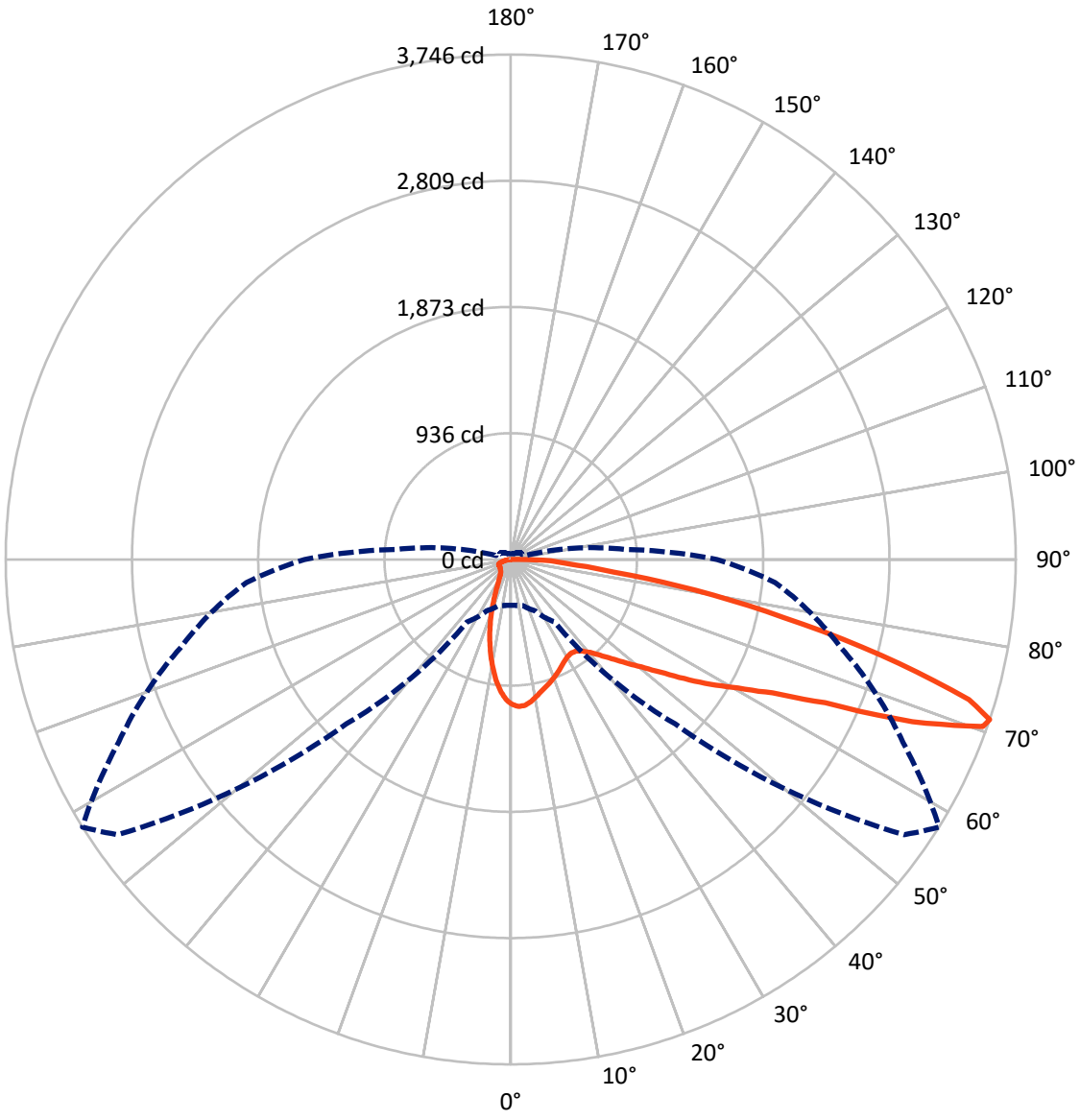
Luminous Intensity Polar Plot



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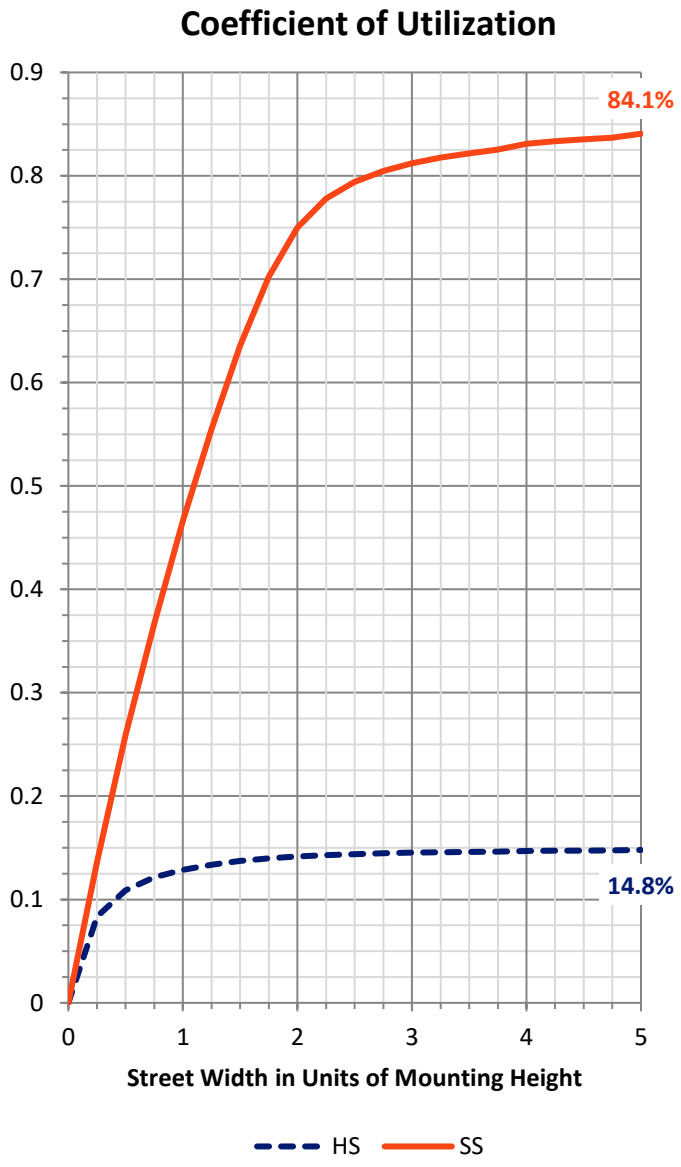
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.6	0.0	579.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3297.4	0.0	3297.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	3877.0	0.0	3877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	2.4
10°-20°	206.1	5.3
20°-30°	261.9	6.8
30°-40°	333.6	8.6
40°-50°	473.0	12.2
50°-60°	732.1	18.9
60°-70°	996.6	25.7
70°-80°	664.8	17.1
80°-90°	116.2	3.0
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°	3877.0	100.0
0°-180°	3877.0	100.0



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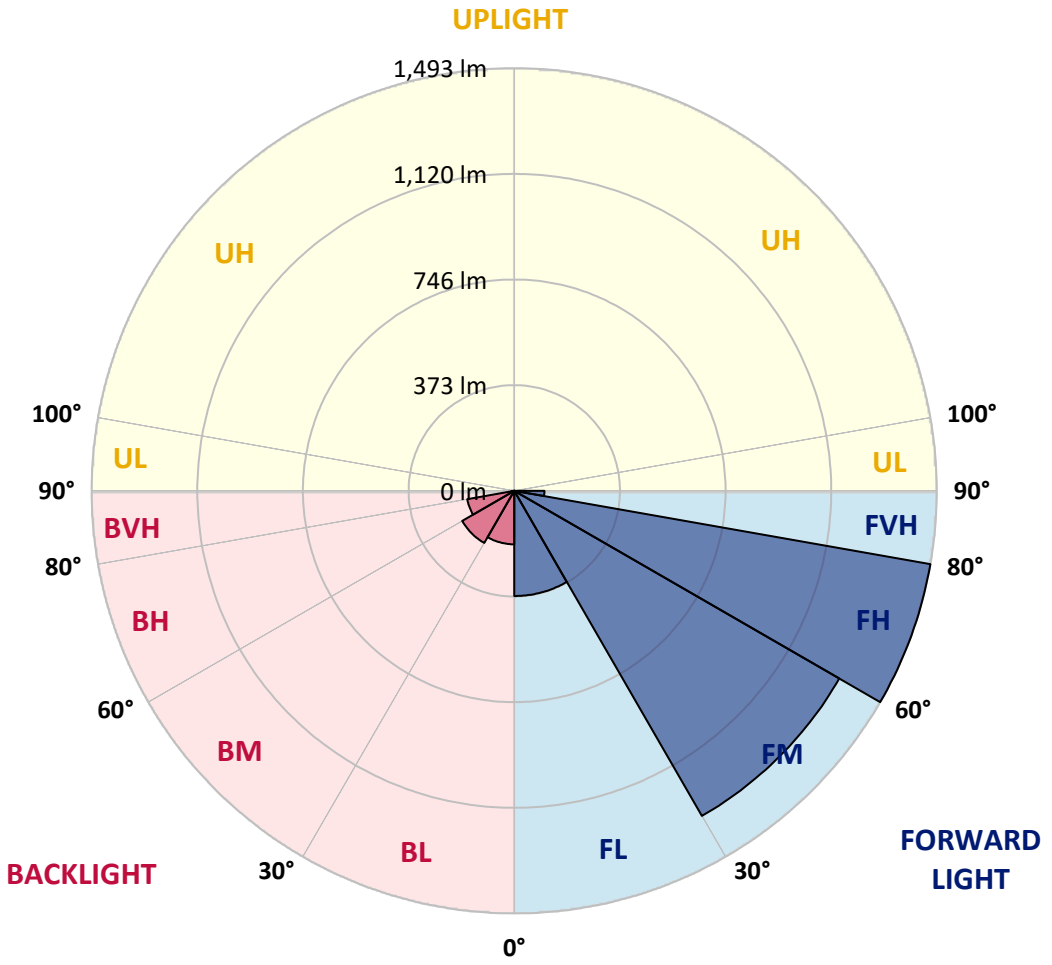
CATALOG NUMBER: GLEON-SA1A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	371.7	9.6			
FM	(30°-60°)	1326.1	34.2			
FH	(60°-80°)	1493.0	38.5			G1/1800
FVH	(80°-90°)	106.6	2.7			G2/225
BL	(0°-30°)	188.9	4.9	B1/500		
BM	(30°-60°)	212.6	5.5	B0/220		
BH	(60°-80°)	168.5	4.3	B1/500		G1/500
BVH	(80°-90°)	9.7	0.2			G0/10
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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Scaled Data Report

REPORT NUMBER: P319825
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	*1074.2*	1074.2	1074.2	1074.2
2.5°	1102.7	1101.2	1101.7	1100.7	1098.1	1095.5	1091.7	*1092.4*	1087.2	1079.3	1069.6
5°	1081.9	1081.3	1085.4	1087.7	1089.6	1088.1	1087.0	*1088.4*	1080.7	1069.9	1053.0
7.5°	1038.3	1032.3	1037.5	1045.2	1052.4	1058.0	1065.3	*1066.2*	1061.4	1050.0	1027.9
10°	976.3	970.6	978.2	990.2	1004.8	1018.0	1032.7	*1035.4*	1036.4	1026.1	999.2
12.5°	912.0	907.7	915.2	932.1	956.3	976.7	1000.2	*1004.2*	1012.6	1005.7	972.8
15°	854.5	852.8	862.0	878.6	906.5	937.7	971.6	*979.0*	993.2	990.9	952.1
17.5°	804.8	804.4	811.4	828.8	859.6	899.0	943.1	*955.6*	976.7	979.4	935.1
20°	767.8	766.9	771.8	784.6	816.4	861.1	912.3	*929.5*	959.9	969.4	917.5
22.5°	747.9	747.8	747.9	754.0	779.9	821.5	882.3	*903.3*	943.6	961.4	898.1
25°	744.5	744.1	741.2	740.5	755.2	788.4	852.6	*875.8*	928.1	955.9	879.6
27.5°	753.3	753.8	749.9	743.6	746.6	766.7	826.8	*851.6*	915.6	954.8	866.8
30°	771.5	771.3	767.9	761.3	755.5	758.6	808.4	*833.3*	907.3	959.5	858.0
32.5°	791.7	793.1	792.5	788.8	780.2	767.8	802.9	*827.2*	904.8	970.9	854.2
35°	815.8	817.5	822.3	825.2	815.0	795.0	814.8	*835.8*	911.9	992.2	860.3
37.5°	838.8	843.0	856.6	868.6	860.0	837.7	846.4	*861.3*	933.6	1025.8	876.6
40°	865.3	868.9	891.2	916.7	915.4	892.3	897.3	*907.3*	972.0	1074.1	906.2
42.5°	891.3	898.6	930.9	967.1	977.5	957.1	965.1	*970.3*	1026.0	1137.9	957.8
45°	926.0	933.9	978.7	1022.3	1046.6	1035.2	1047.9	*1049.9*	1093.9	1224.9	1032.7
47.5°	978.6	987.5	1039.8	1085.5	1122.7	1123.9	1144.8	*1144.0*	1178.7	1324.4	1127.1
50°	1060.4	1073.2	1116.1	1158.9	1204.0	1229.1	1257.0	*1253.1*	1280.4	1430.5	1235.8
52.5°	1167.6	1173.6	1205.3	1236.9	1293.0	1349.3	1389.4	*1385.9*	1395.7	1539.4	1359.3
55°	1278.8	1283.2	1296.3	1313.6	1389.0	1480.8	1565.6	*1560.1*	1535.1	1652.6	1481.2
57.5°	1378.7	1387.8	1396.8	1404.0	1485.7	1618.3	1745.9	*1746.3*	1686.4	1774.7	1607.2
60°	1394.3	1402.2	1462.1	1518.5	1651.1	1801.7	1938.9	*1934.9*	1842.9	1907.2	1747.7
62.5°	1232.5	1250.4	1350.4	1500.5	1810.5	2137.2	2185.1	*2180.1*	2030.1	2070.5	1911.2
65°	883.2	903.6	1024.2	1249.9	1733.2	2506.8	2629.4	*2562.2*	2285.3	2271.3	2102.7
67.5°	509.5	514.4	566.7	747.9	1319.7	2526.1	3307.2	*3213.1*	2681.7	2499.1	2196.5
70°	376.8	376.7	389.1	460.3	714.1	2061.7	3629.6	*3714.0*	3099.0	2574.1	2064.0
71°	*340.7*	*341.1*	*355.0*	*418.9*	*565.6*	*1725.7*	*3561.1*	*3745.9*	*3208.9*	*2537.1*	*1968.1*
72.5°	291.4	292.8	312.1	375.7	475.8	1190.1	3266.2	*3554.7*	3261.1	2445.8	1818.0
75°	221.1	224.2	250.9	316.7	434.9	603.5	2397.1	*2838.5*	2897.0	2158.1	1350.9
77.5°	157.7	161.2	191.5	266.3	413.4	454.8	1605.3	*2070.5*	2131.9	1383.0	609.3
80°	99.7	103.9	126.7	211.9	388.4	431.9	1008.8	*1391.7*	1162.5	442.6	155.0
82.5°	58.5	61.7	78.6	138.4	317.2	416.0	593.5	*771.4*	452.4	133.7	70.5
85°	33.9	35.4	49.0	88.2	230.4	392.6	436.1	*431.2*	196.4	65.4	33.4
87.5°	15.8	17.6	29.0	46.1	127.9	284.6	344.6	*297.8*	122.1	30.7	15.7
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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Scaled Data Report

REPORT NUMBER: P319825
CATALOG NUMBER: GLEON-SA1A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2	1074.2
2.5°	1064.9	1062.6	1053.0	1044.5	1035.6	1023.9	1011.1	1009.5	1001.7	1003.2	1000.5
5°	1043.8	1038.0	1014.9	994.0	969.3	947.1	923.1	912.0	896.1	895.0	890.9
7.5°	1013.7	1002.9	967.1	927.4	887.7	849.9	812.5	787.9	762.8	752.1	751.1
10°	979.8	961.4	908.8	850.0	792.7	737.5	684.0	644.5	608.8	591.9	591.2
12.5°	947.6	920.5	848.2	768.3	690.0	618.4	545.1	493.1	448.4	433.4	427.0
15°	920.4	882.1	789.4	687.1	592.1	492.7	409.2	354.5	313.2	298.9	296.2
17.5°	893.9	844.7	729.0	605.2	490.2	381.0	297.4	256.7	234.7	228.9	228.8
20°	867.6	806.2	665.9	521.3	391.8	285.0	228.6	210.4	203.0	202.3	201.2
22.5°	837.7	765.5	599.6	437.2	305.8	224.0	194.3	187.0	186.1	188.5	188.5
25°	809.8	724.9	532.4	354.8	237.8	186.9	173.5	172.1	174.6	178.9	179.3
27.5°	783.7	685.9	466.7	281.6	190.6	164.6	159.1	160.8	165.4	170.4	170.6
30°	762.2	649.1	403.0	221.9	161.0	148.0	147.1	150.6	155.6	159.5	160.4
32.5°	745.6	617.6	341.4	178.4	141.7	135.6	136.4	139.4	142.5	144.6	146.1
35°	737.9	590.6	284.6	150.4	129.4	126.0	127.1	128.7	130.1	131.7	132.9
37.5°	739.3	569.6	233.8	133.0	121.1	119.4	119.4	119.4	119.4	120.2	120.3
40°	751.8	557.6	192.4	122.0	115.6	113.7	112.2	110.9	109.8	110.3	110.1
42.5°	784.0	556.5	162.2	114.9	111.1	108.0	105.1	103.2	101.8	102.4	102.6
45°	838.5	570.0	141.8	109.9	107.0	102.2	98.5	96.4	95.5	97.2	97.5
47.5°	909.2	599.5	129.4	106.3	103.0	96.8	92.8	90.9	91.2	93.7	94.4
50°	1000.2	647.3	123.4	104.0	100.3	92.2	88.1	86.4	87.2	90.9	91.7
52.5°	1100.1	716.2	124.1	103.3	98.6	88.9	84.4	82.5	83.9	87.2	87.9
55°	1215.5	799.0	135.3	104.3	96.0	86.7	81.4	78.2	79.3	82.4	82.9
57.5°	1343.6	893.8	157.9	104.0	92.8	84.7	78.3	73.5	74.3	76.2	76.7
60°	1477.0	1008.3	192.9	104.8	91.3	82.2	74.1	68.1	67.8	69.4	69.7
62.5°	1637.2	1140.8	232.8	105.3	92.2	79.1	68.6	62.7	61.9	62.3	62.5
65°	1802.2	1236.7	217.8	103.2	95.2	76.6	63.7	57.4	55.9	55.6	55.8
67.5°	1807.4	1133.9	152.7	98.9	96.4	75.2	60.1	52.9	50.5	49.6	49.4
70°	1620.9	921.2	119.0	94.3	91.6	73.1	56.7	49.3	45.6	44.2	44.0
71°	*1529.8*	*848.0*	*112.8*	*92.0*	*87.9*	*70.9*	*55.2*	*47.7*	*43.9*	*42.3*	*42.0*
72.5°	1387.1	760.2	105.2	88.3	80.9	65.4	52.4	45.4	41.5	39.6	39.2
75°	995.5	497.1	90.3	78.7	67.0	52.1	45.9	40.8	37.4	35.1	34.8
77.5°	383.5	197.8	68.3	65.5	51.3	40.8	37.8	35.2	32.8	30.5	30.4
80°	118.6	88.5	49.8	49.3	37.1	30.4	29.4	28.8	27.8	25.4	24.8
82.5°	63.3	50.8	34.3	31.9	24.3	20.3	21.3	21.6	21.7	19.2	18.9
85°	30.3	26.9	19.3	18.1	14.2	11.3	13.1	14.2	14.3	11.7	10.9
87.5°	14.5	14.0	9.0	6.9	5.3	3.8	4.6	5.7	6.2	4.5	3.9
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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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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

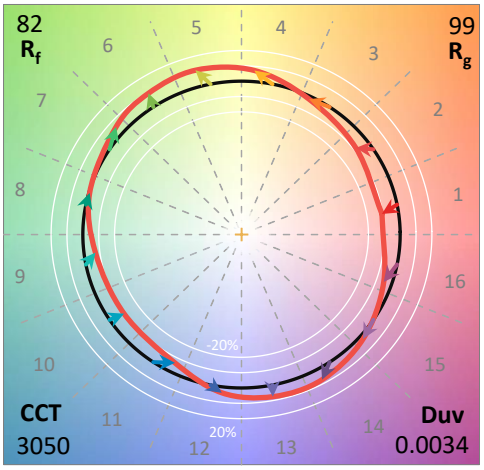
Test Information

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	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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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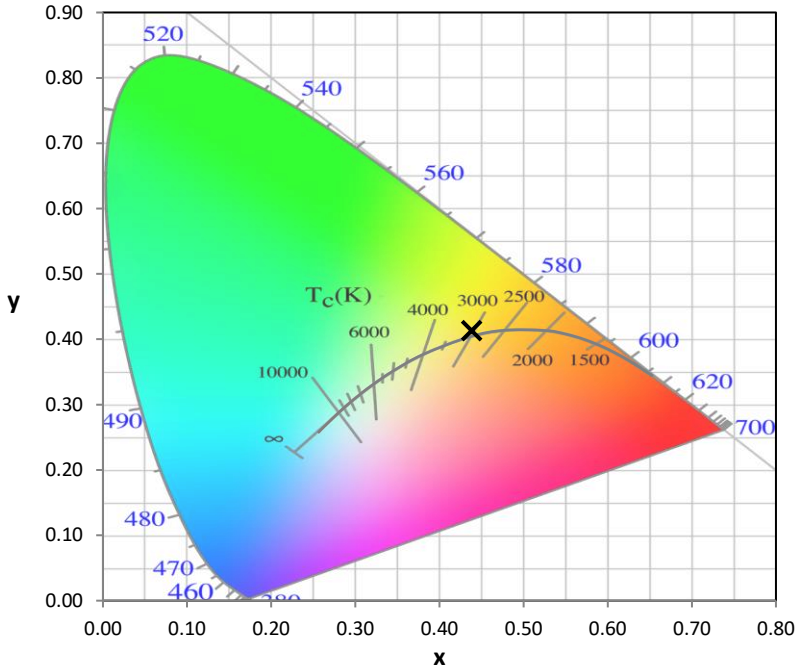
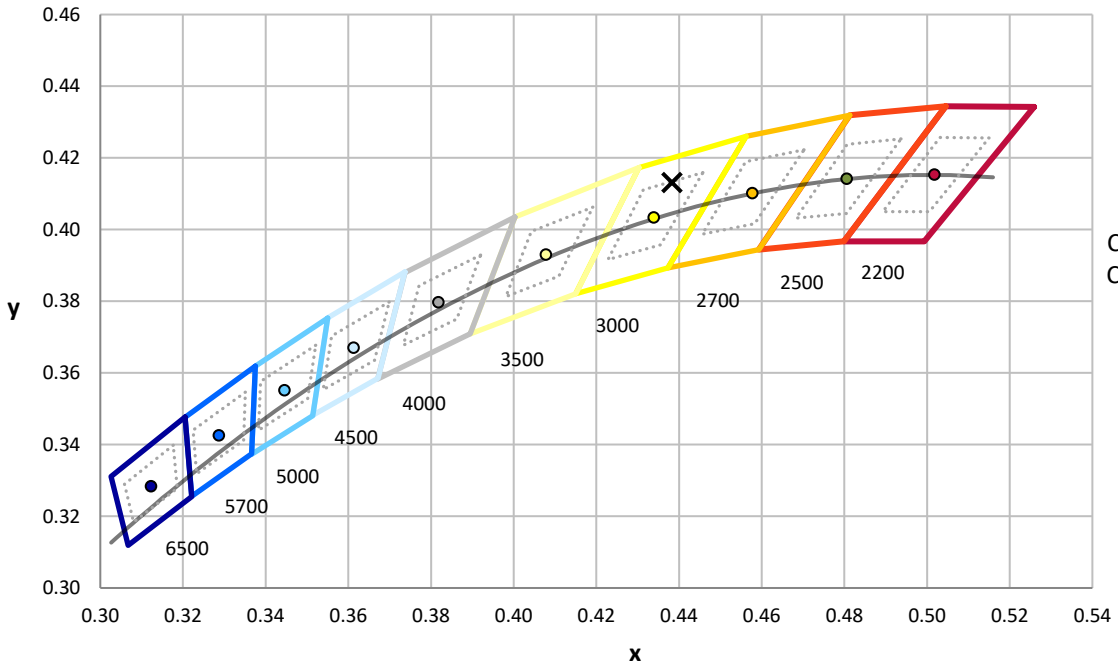
CIE 1931 Chromaticity Diagram



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

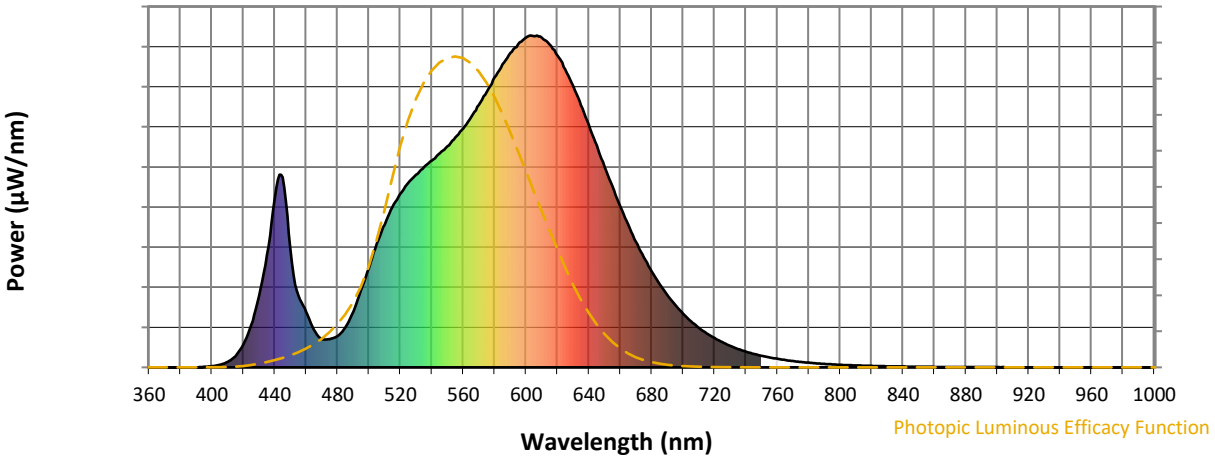


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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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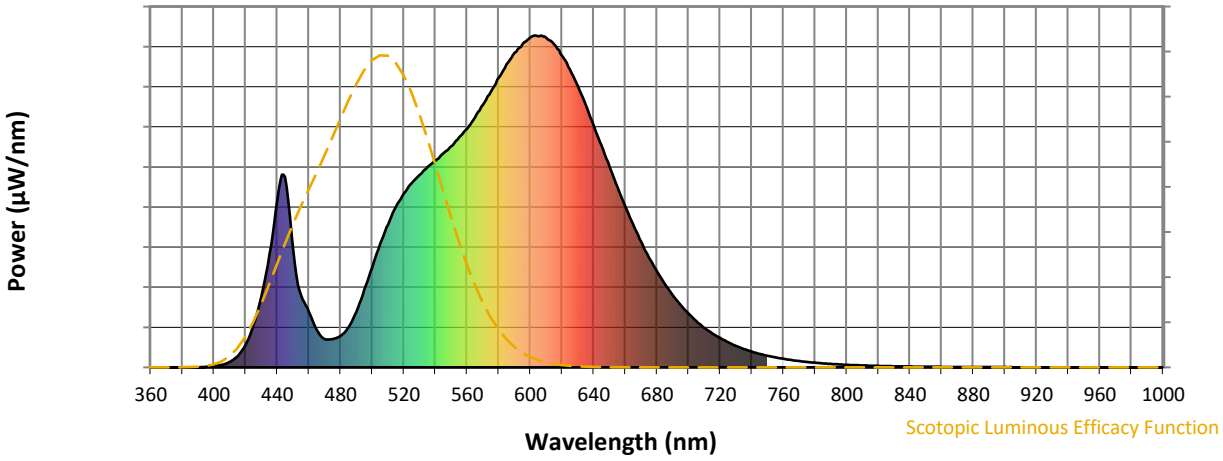
Scotopic Flux vs. Wavelength



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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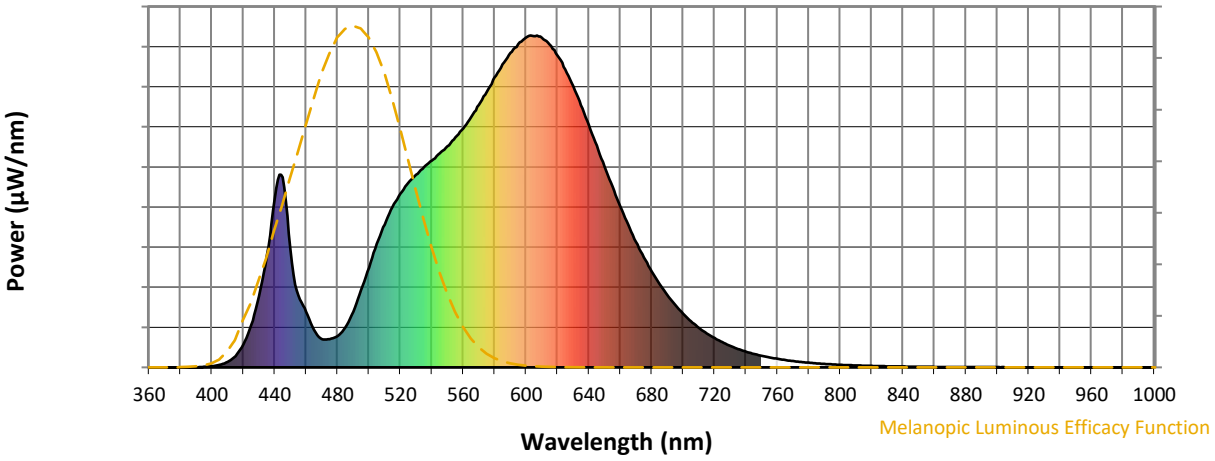
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power 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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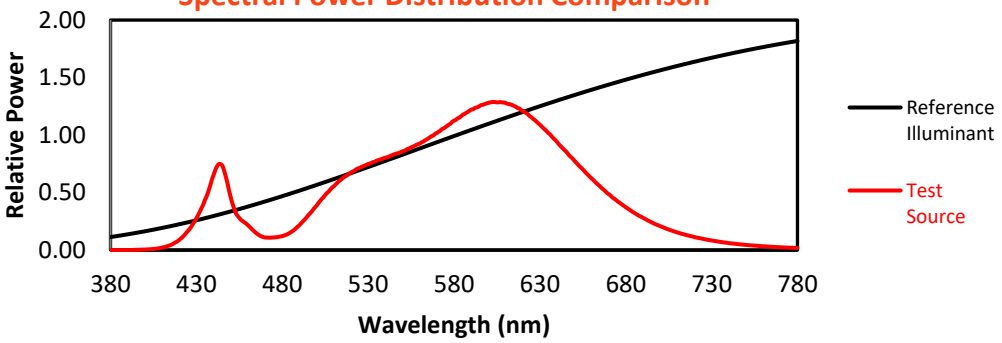
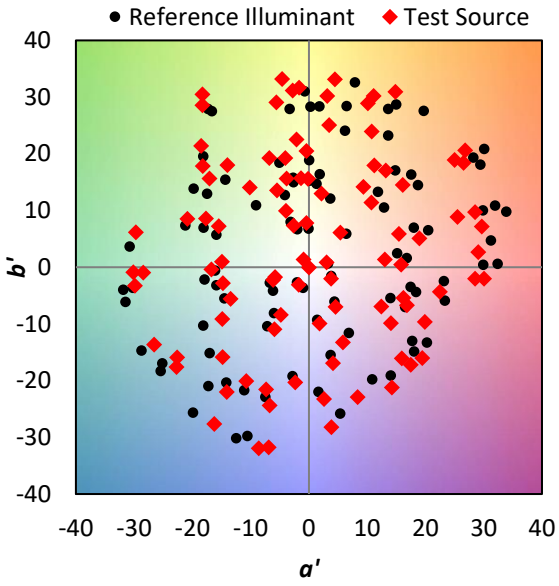
Summary

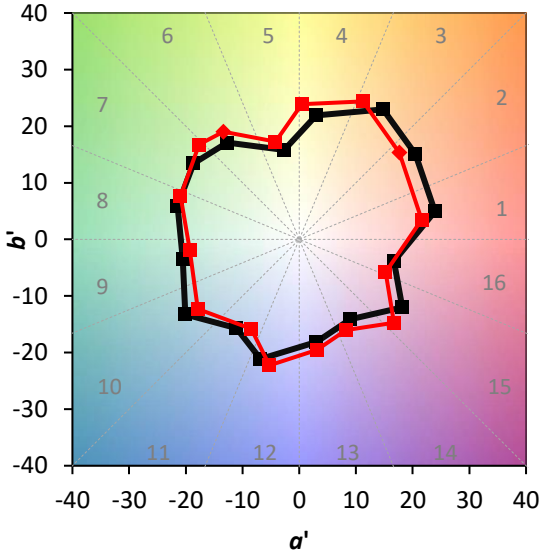
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

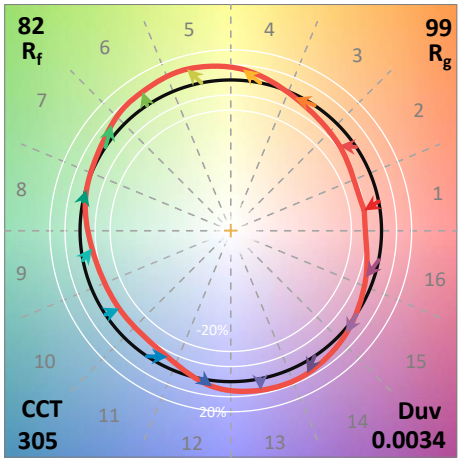
Spectral Power Distribution Comparison

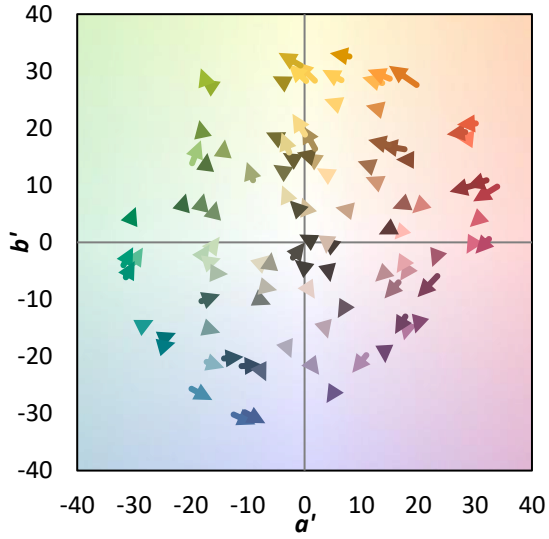


Color Vector Graphics









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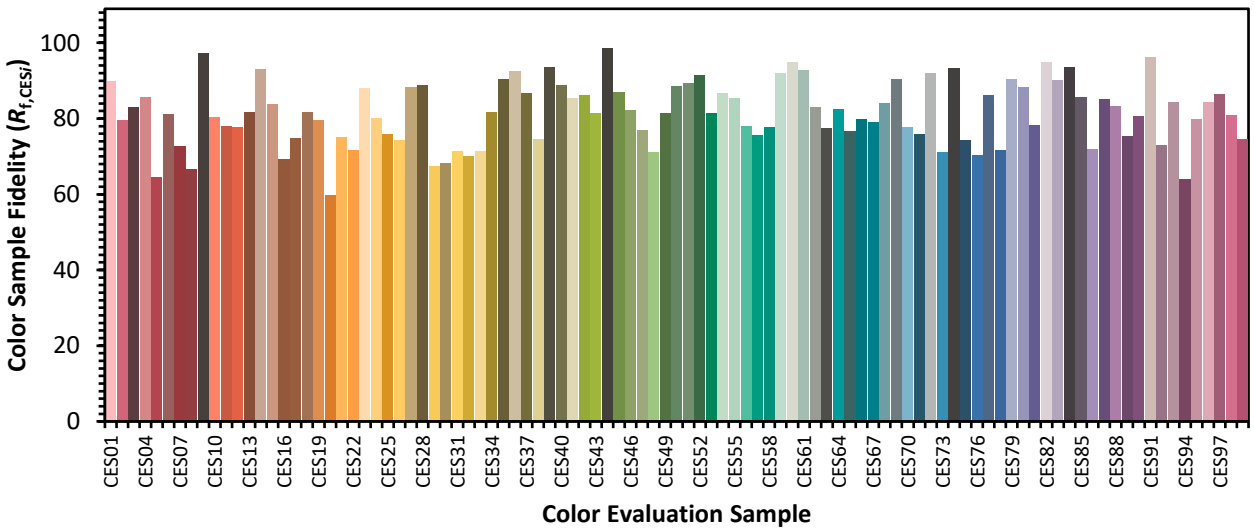
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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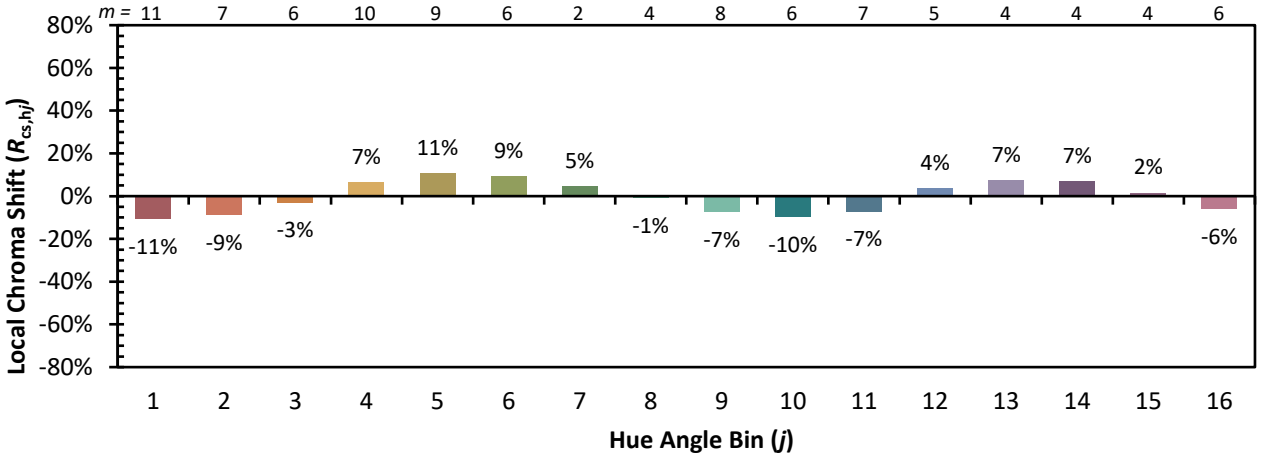
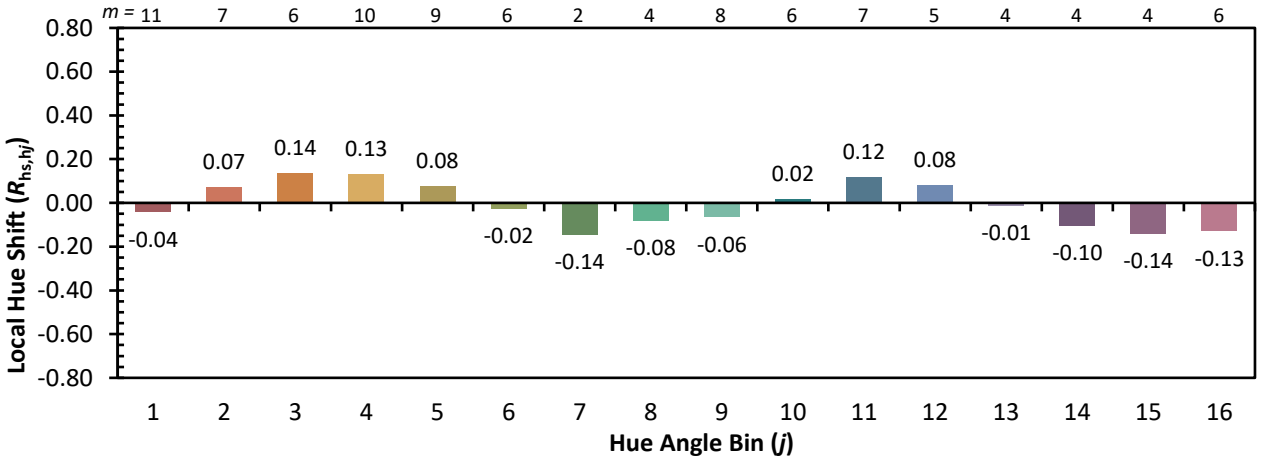
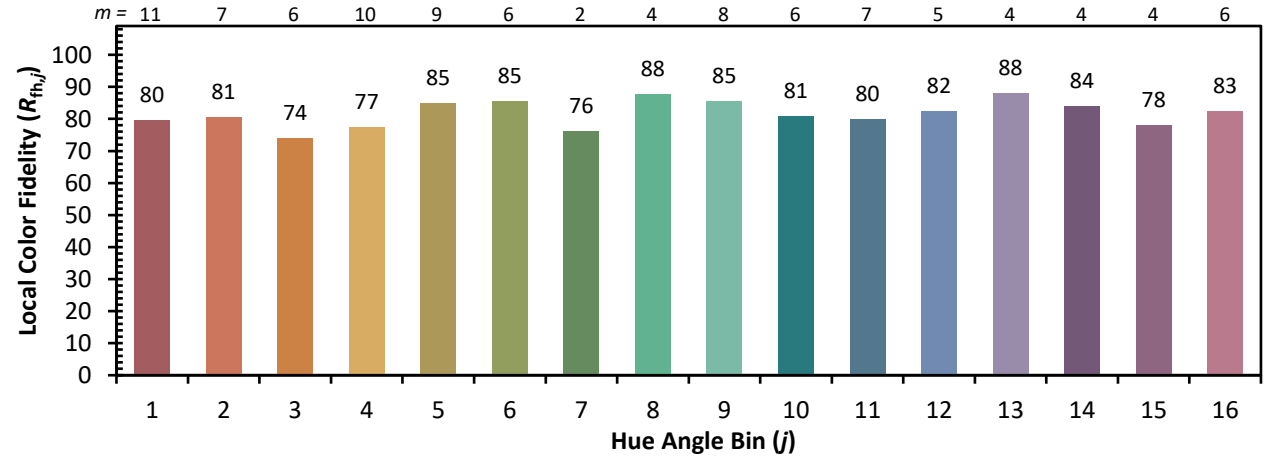
Color Rendition by Hue-Angle Bin







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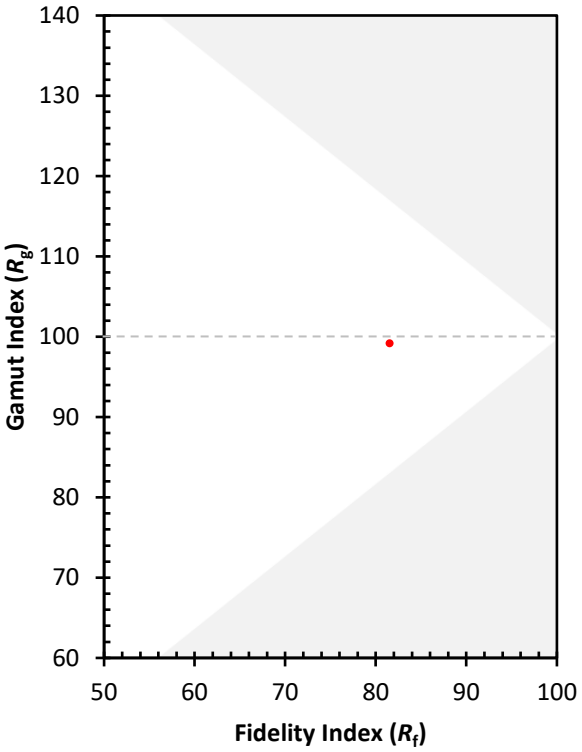
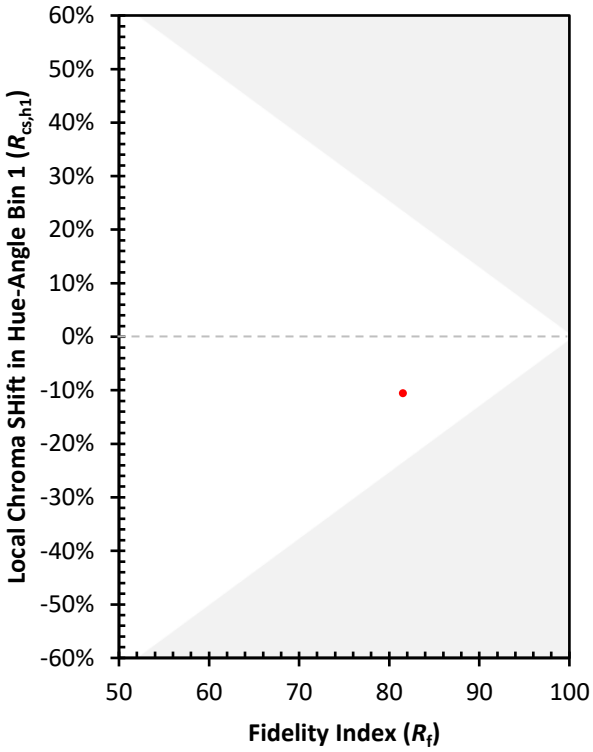
Measure Comparisons





(END OF REPORT)