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: P318554

Luminaire Tested: **GLEON-SA0A-830-U-T3**

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:	P318554
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0A-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36662 lumens
Efficiency:	N/A
Efficacy:	113.5 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	323
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: P318554
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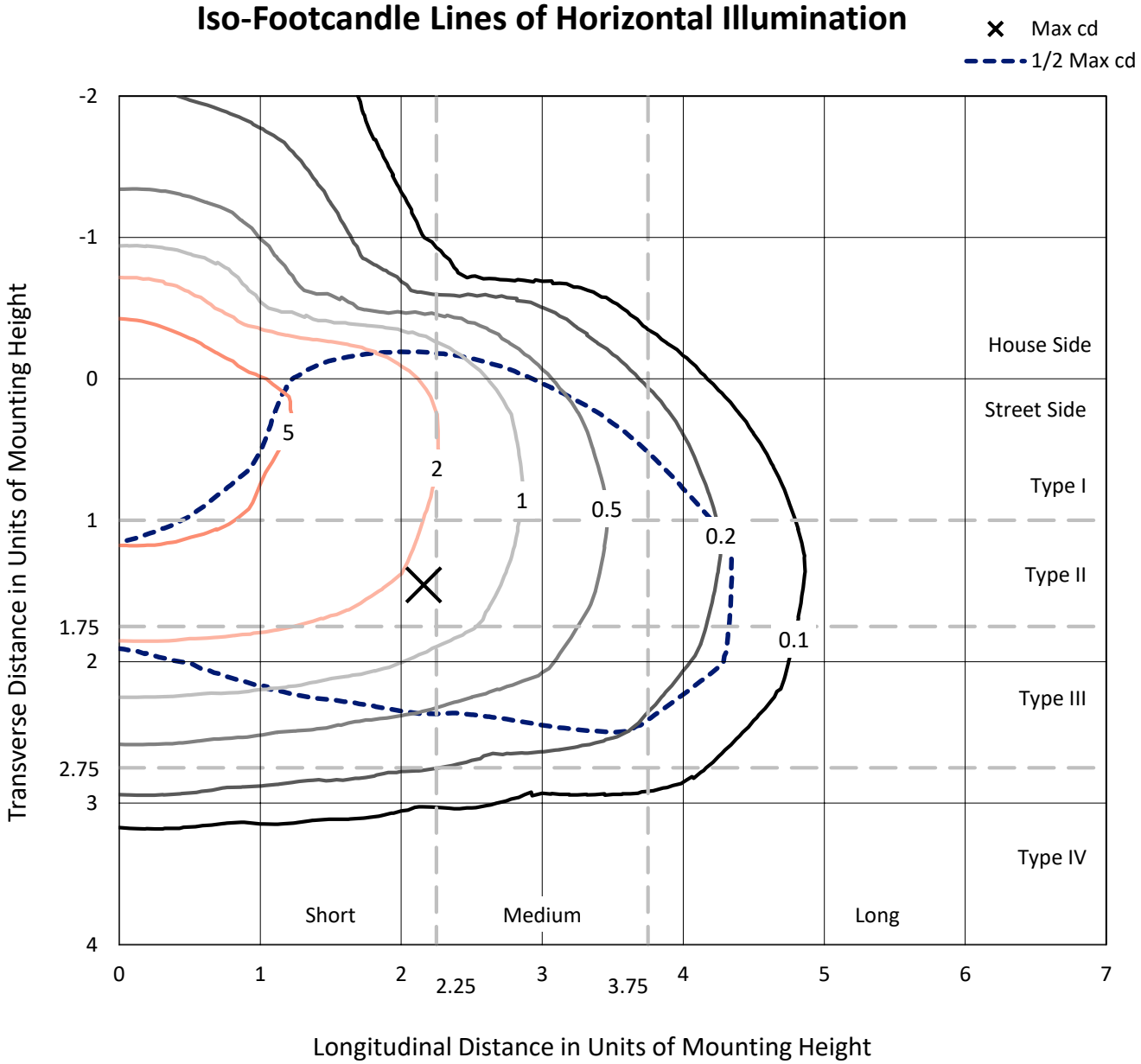
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Short - N/A

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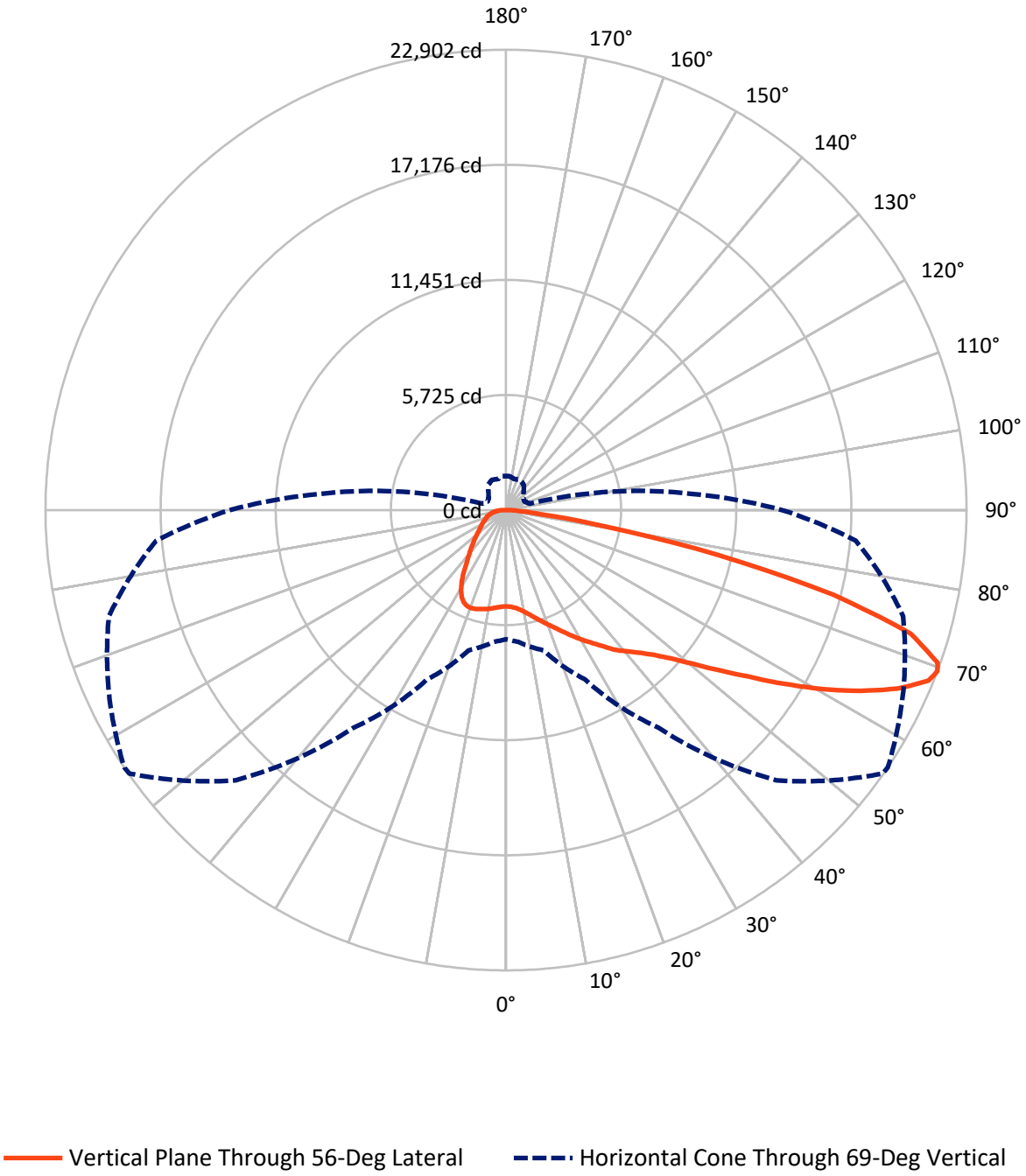
Luminous Intensity Polar Plot



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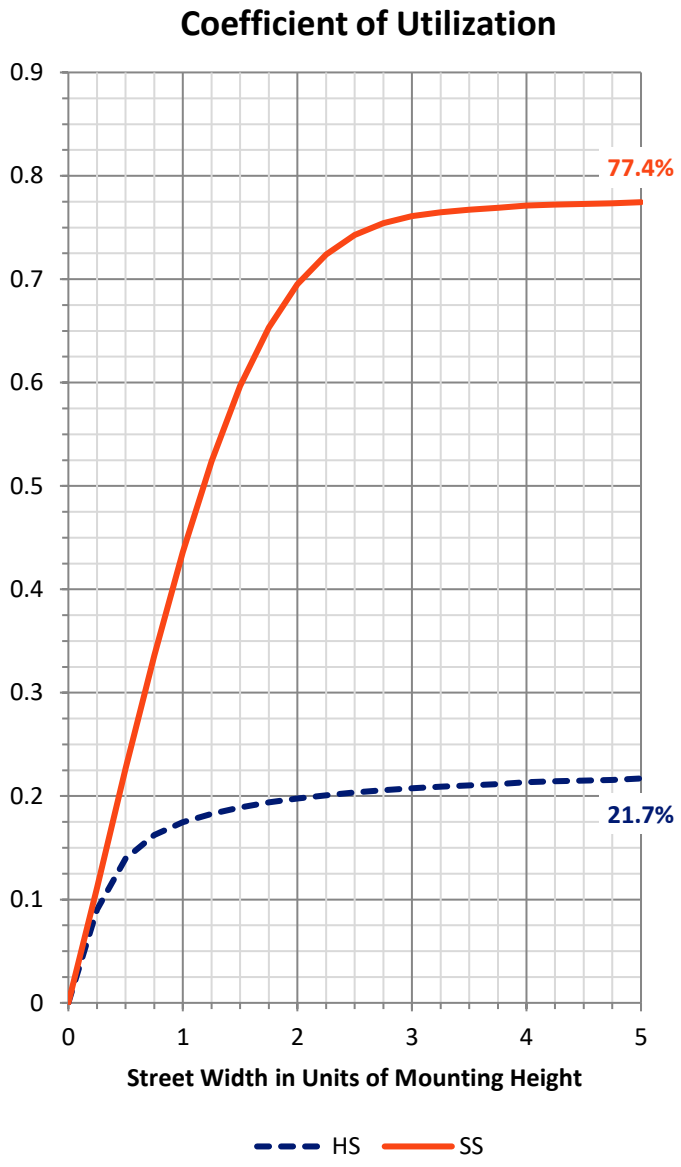
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8164.6	0.0	8164.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28497.4	0.0	28497.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	36662.0	0.0	36662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.7	1.3
10°-20°	1513.7	4.1
20°-30°	2642.4	7.2
30°-40°	3795.7	10.4
40°-50°	5253.1	14.3
50°-60°	7696.5	21.0
60°-70°	9383.5	25.6
70°-80°	5187.8	14.2
80°-90°	718.5	2.0
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°	36662.0	100.0
0°-180°	36662.0	100.0



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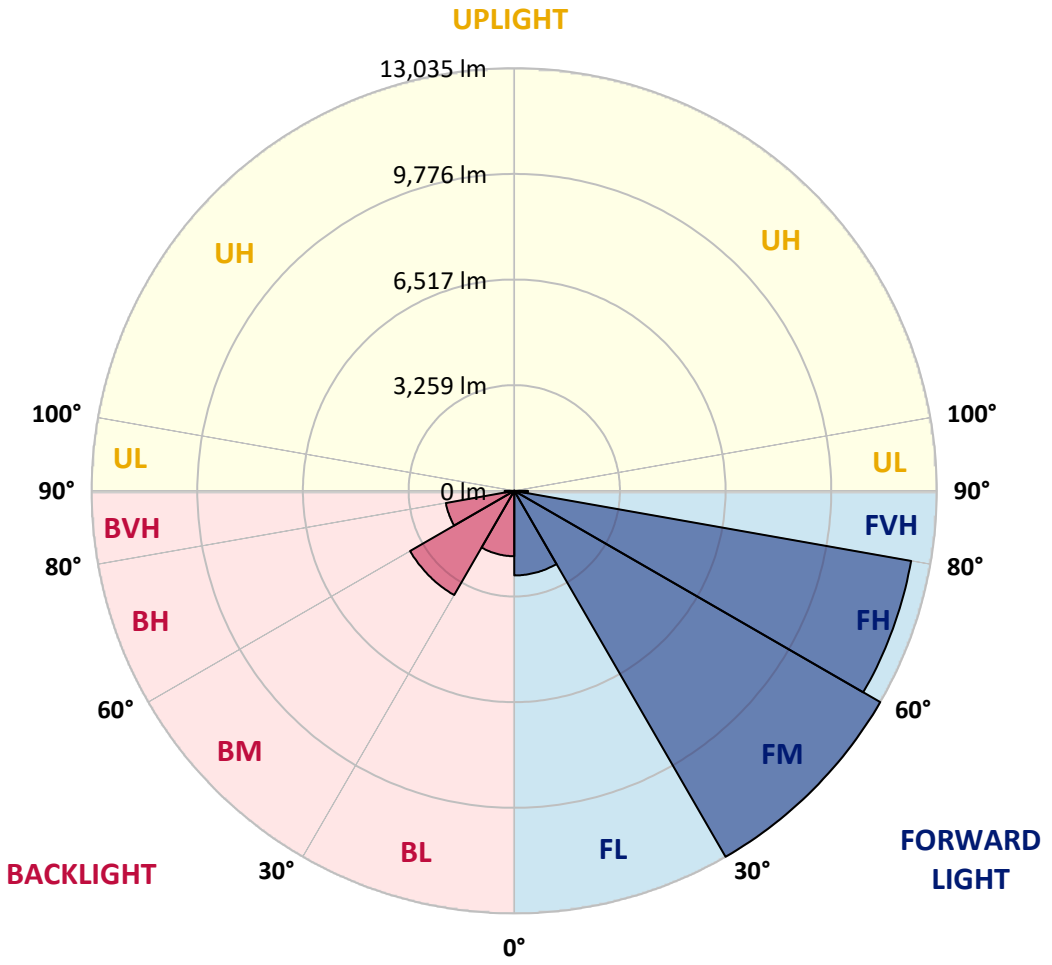
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2609.3	7.1			
FM	(30°-60°)	13034.7	35.6			
FH	(60°-80°)	12430.3	33.9			G5
FVH	(80°-90°)	423.2	1.2			G3/500
BL	(0°-30°)	2017.6	5.5	B3/2500		
BM	(30°-60°)	3710.6	10.1	B3/5000		
BH	(60°-80°)	2141.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	295.3	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-G5
Type III Short



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REPORT NUMBER: P318554
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	*4793.0*	4793.0	4793.0	4793.0
2.5°	4823.3	4828.4	4824.6	4834.7	4823.3	4830.9	4824.6	*4824.6*	4820.8	4809.4	4796.8
5°	4899.1	4909.2	4902.9	4913.0	4899.1	4901.6	4890.3	*4890.3*	4878.9	4854.9	4829.6
7.5°	5017.8	5029.2	5024.1	5034.2	5015.3	5015.3	5000.1	*4998.9*	4976.1	4937.0	4907.9
10°	5159.3	5174.4	5169.4	5184.5	5169.4	5174.4	5159.3	*5159.3*	5129.0	5073.4	5036.8
12.5°	5365.1	5384.1	5370.2	5368.9	5362.6	5372.7	5360.1	*5357.6*	5329.8	5254.0	5203.5
15°	5640.5	5660.7	5631.6	5629.1	5593.7	5589.9	5589.9	*5586.2*	5568.5	5477.5	5394.2
17.5°	5957.5	5963.8	5938.5	5898.1	5852.6	5823.6	5819.8	*5829.9*	5829.9	5723.8	5591.2
20°	6268.2	6279.5	6259.3	6213.9	6155.8	6112.8	6082.5	*6102.7*	6101.5	5975.2	5787.0
22.5°	6606.6	6633.2	6602.9	6544.8	6476.6	6428.6	6375.5	*6393.2*	6394.5	6239.1	5978.9
25°	7044.9	7020.9	7002.0	6919.9	6822.6	6773.4	6724.1	*6741.8*	6736.7	6523.3	6177.2
27.5°	7432.6	7437.7	7412.4	7325.3	7212.9	7104.3	7101.7	*7113.1*	7094.2	6818.8	6364.2
30°	7883.5	7886.0	7850.7	7772.4	7649.9	7509.7	7476.8	*7495.8*	7455.4	7099.2	6561.2
32.5°	8331.9	8344.5	8305.3	8210.6	8112.1	7941.6	7875.9	*7888.6*	7787.5	7385.9	6764.5
35°	8724.7	8742.3	8729.7	8666.6	8559.2	8412.7	8334.4	*8326.8*	8201.8	7737.0	7033.5
37.5°	9125.0	9141.4	9127.5	9074.5	9031.6	8876.2	8834.5	*8834.5*	8617.3	8095.7	7375.8
40°	9536.8	9562.0	9545.6	9472.3	9435.7	9365.0	9265.2	*9241.2*	9006.3	8526.4	7934.0
42.5°	9919.4	9952.3	10017.9	9975.0	9900.5	9910.6	9709.8	*9697.2*	9525.4	9162.9	8635.0
45°	10462.5	10510.5	10621.7	10588.8	10573.7	10518.1	10279.4	*10268.0*	10202.3	10019.2	9505.2
47.5°	11054.9	11120.5	11321.3	11327.7	11490.6	11385.8	11061.2	*11022.0*	11037.2	11044.7	10567.3
50°	11600.5	11672.5	12002.1	12157.4	12541.4	12564.1	12045.0	*12009.7*	12069.0	12243.3	11805.1
52.5°	12036.2	12127.1	12538.9	13018.8	13676.8	13863.7	13256.2	*13229.7*	13273.9	13574.5	13204.4
55°	12355.7	12454.2	12902.6	13776.6	14827.4	15157.0	14650.6	*14625.3*	14653.1	15035.8	14726.3
57.5°	12430.2	12454.2	13104.7	14286.8	15798.6	16590.5	16356.8	*16306.3*	16169.9	16503.3	16406.1
60°	12080.4	12176.4	12938.0	14466.2	16550.1	18003.8	18140.2	*18077.0*	17694.3	17967.1	17888.8
62.5°	11370.6	11542.4	12315.3	14193.4	16844.3	19158.1	19889.4	*19813.6*	19154.3	19331.2	18954.8
65°	10211.2	10284.4	11096.5	13252.4	16470.5	19897.0	21449.2	*21411.3*	20581.5	20304.9	19151.8
67.5°	8137.4	8275.0	8964.6	11286.0	14941.0	19809.8	22655.3	*22651.5*	21513.6	20666.1	18453.4
69°	*6428.6*	*6571.3*	*7228.0*	*9296.8*	*13220.9*	*19012.9*	*22857.4*	*22901.6*	*21776.3*	*20446.4*	*17455.6*
70°	5125.2	5290.6	5741.5	7830.5	11693.9	17962.1	22689.4	*22769.0*	21725.8	20083.9	16534.9
72.5°	2181.2	2315.0	2635.8	4036.5	7127.0	13412.8	20745.7	*21046.3*	20555.0	18381.4	13665.4
75°	952.3	994.0	1139.2	1645.7	3163.8	7300.0	16252.0	*16807.7*	17575.6	15537.2	10179.6
77.5°	697.2	714.8	794.4	966.2	1419.6	2757.1	10451.1	*10774.5*	12675.3	11306.2	6244.2
80°	539.3	551.9	613.8	709.8	927.0	1115.2	4766.5	*5044.3*	7127.0	5807.2	2600.5
82.5°	429.4	438.3	481.2	522.9	640.3	675.7	1582.5	*1755.5*	2630.8	1604.0	688.3
85°	399.1	409.2	424.4	381.4	410.5	396.6	684.5	*716.1*	794.4	630.2	288.0
87.5°	180.6	213.4	420.6	296.8	218.5	174.3	280.4	*293.0*	329.6	330.9	127.6
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: P318554
CATALOG NUMBER: GLEON-SA0A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0
2.5°	4804.4	4800.6	4806.9	4791.7	4810.7	4809.4	4803.1	4805.6	4818.3	4817.0	4818.3
5°	4833.4	4830.9	4838.5	4827.1	4849.8	4857.4	4858.7	4870.0	4883.9	4887.7	4887.7
7.5°	4906.7	4906.7	4910.5	4895.3	4910.5	4909.2	4902.9	4914.3	4928.1	4929.4	4928.1
10°	5033.0	5034.2	5027.9	4988.8	4976.1	4942.0	4910.5	4911.7	4929.4	4943.3	4947.1
12.5°	5192.1	5187.1	5159.3	5087.3	5034.2	4964.8	4931.9	4930.7	4948.4	4959.7	4963.5
15°	5374.0	5360.1	5288.1	5170.6	5077.2	5009.0	4955.9	4943.3	4933.2	4920.6	4921.8
17.5°	5545.7	5514.2	5394.2	5231.3	5132.7	5041.8	4939.5	4857.4	4800.6	4767.7	4757.6
20°	5720.0	5658.1	5485.1	5288.1	5163.1	4997.6	4800.6	4633.9	4530.3	4482.3	4473.5
22.5°	5879.2	5779.4	5569.7	5347.5	5139.1	4848.6	4539.1	4296.7	4152.7	4088.3	4093.3
25°	6034.5	5895.6	5658.1	5389.1	5017.8	4585.9	4175.4	3877.3	3710.6	3638.6	3636.1
27.5°	6170.9	6013.0	5754.1	5355.0	4791.7	4212.0	3744.7	3454.2	3315.3	3253.4	3243.3
30°	6327.5	6160.8	5881.7	5224.9	4460.8	3780.1	3324.2	3119.6	3021.0	2959.2	2947.8
32.5°	6518.2	6361.6	5986.5	4988.8	4037.7	3329.2	2995.8	2853.1	2763.4	2693.9	2681.3
35°	6796.1	6626.8	6013.0	4650.3	3573.0	2973.1	2754.6	2608.1	2486.8	2397.1	2388.3
37.5°	7144.7	6959.0	5952.4	4212.0	3122.1	2741.9	2553.7	2373.1	2215.3	2089.0	2068.8
40°	7647.3	7367.0	5784.4	3706.8	2789.9	2563.8	2358.0	2152.1	1956.4	1808.6	1779.5
42.5°	8251.0	7845.6	5526.8	3204.2	2546.2	2383.2	2163.5	1908.4	1721.4	1616.6	1601.5
45°	9018.9	8343.2	5169.4	2764.7	2306.2	2202.6	1953.8	1718.9	1602.7	1525.7	1513.0
47.5°	9895.4	8901.5	4794.3	2407.2	2102.9	2033.4	1785.9	1634.3	1542.1	1481.5	1470.1
50°	10972.8	9531.7	4396.4	2114.2	1898.3	1830.1	1706.3	1587.6	1514.3	1467.6	1456.2
52.5°	12187.7	10242.8	4109.7	1883.1	1729.0	1679.8	1664.6	1562.3	1502.9	1467.6	1456.2
55°	13496.2	10966.4	3800.3	1688.6	1582.5	1596.4	1636.8	1564.8	1524.4	1481.5	1465.1
57.5°	14805.9	11714.1	3455.5	1524.4	1466.3	1534.5	1617.9	1569.9	1535.8	1494.1	1478.9
60°	15841.5	12187.7	2921.3	1386.8	1374.1	1466.3	1572.4	1532.0	1487.8	1489.1	1486.5
62.5°	16325.3	12162.5	2331.5	1264.2	1281.9	1374.1	1499.2	1472.6	1436.0	1485.3	1489.1
65°	16053.7	11556.3	1814.9	1153.1	1183.4	1278.1	1423.4	1443.6	1456.2	1550.9	1563.6
67.5°	14914.5	10376.6	1405.7	1055.9	1093.7	1212.5	1431.0	1572.4	1588.8	1688.6	1687.3
69°	*13736.2*	*9270.3*	*1221.3*	*1005.3*	*1049.5*	*1228.9*	*1529.5*	*1654.5*	*1592.6*	*1698.7*	*1683.6*
70°	12748.5	8395.0	1122.8	971.2	1029.3	1257.9	1595.1	1653.2	1573.7	1664.6	1639.3
72.5°	9818.4	6039.6	952.3	908.1	961.1	1203.6	1614.1	1616.6	1529.5	1547.1	1504.2
75°	6734.2	3816.7	831.0	822.2	857.6	1084.9	1553.5	1544.6	1414.5	1389.3	1353.9
77.5°	3713.2	1938.7	706.0	740.1	764.1	961.1	1412.0	1399.4	1292.0	1239.0	1226.4
80°	1432.2	848.7	596.1	658.0	673.2	832.3	1237.7	1226.4	1136.7	1068.5	1049.5
82.5°	540.6	444.6	492.6	569.6	564.6	687.1	1048.3	1042.0	954.8	855.0	824.7
85°	250.1	266.5	390.3	469.8	433.2	509.0	838.6	850.0	743.9	625.2	625.2
87.5°	106.1	149.0	276.6	354.9	291.7	343.5	615.1	587.3	539.3	373.8	351.1
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

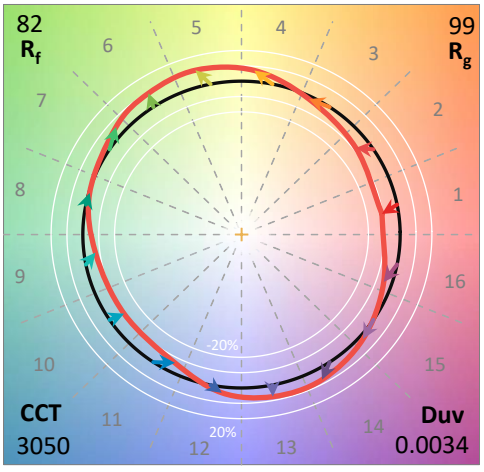
Test Information

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

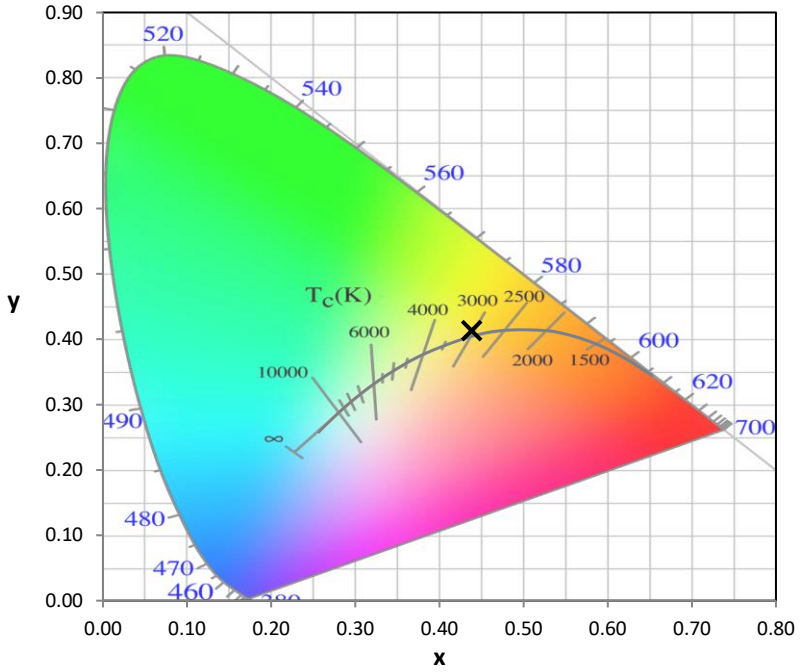
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

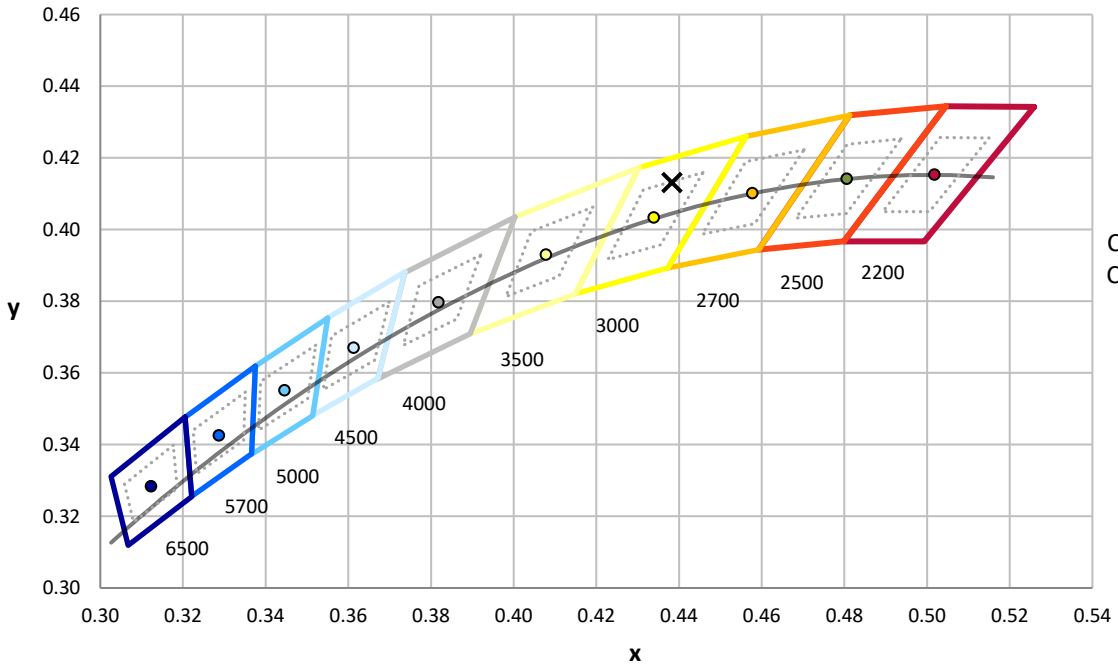
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

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

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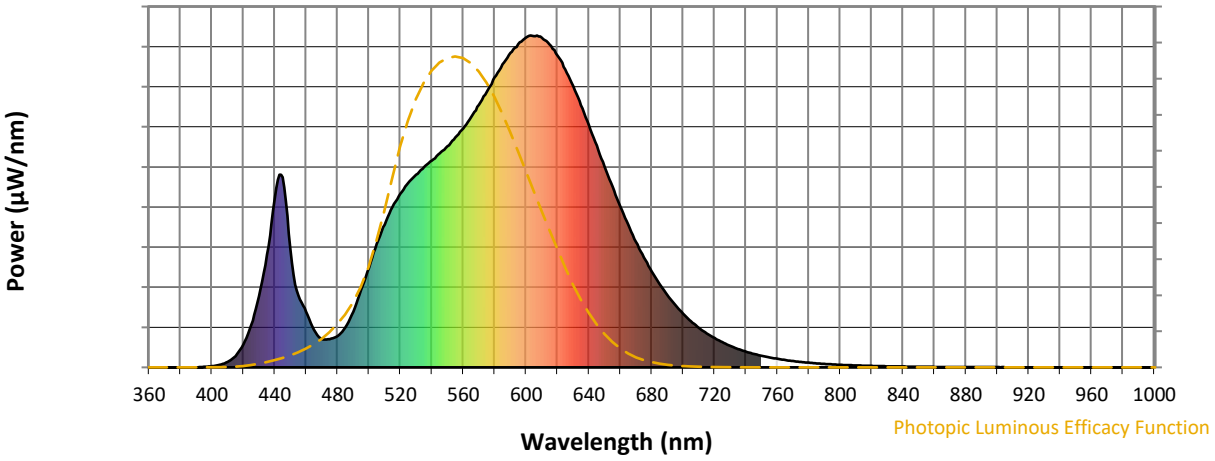
Photopic Flux vs. Wavelength



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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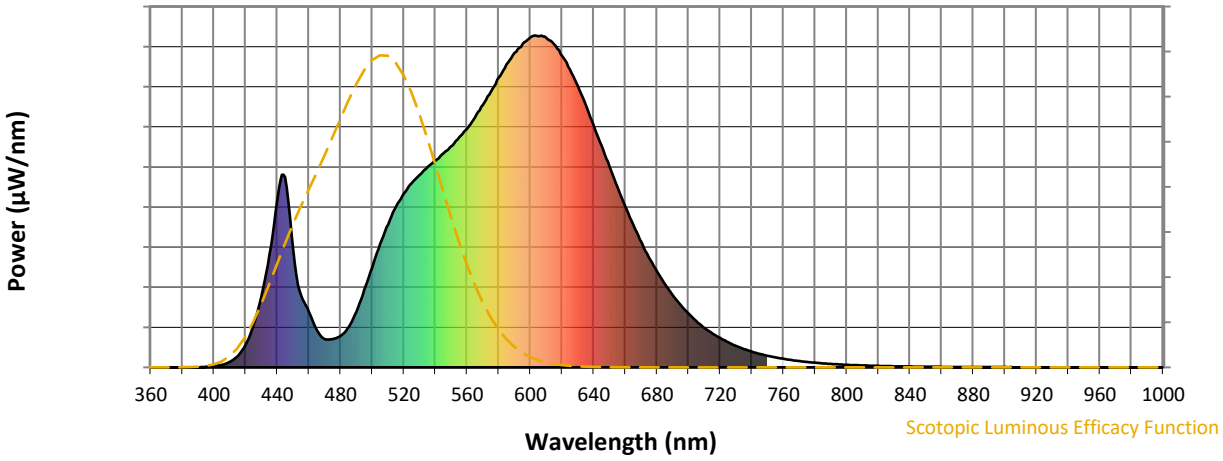
Scotopic Flux vs. Wavelength



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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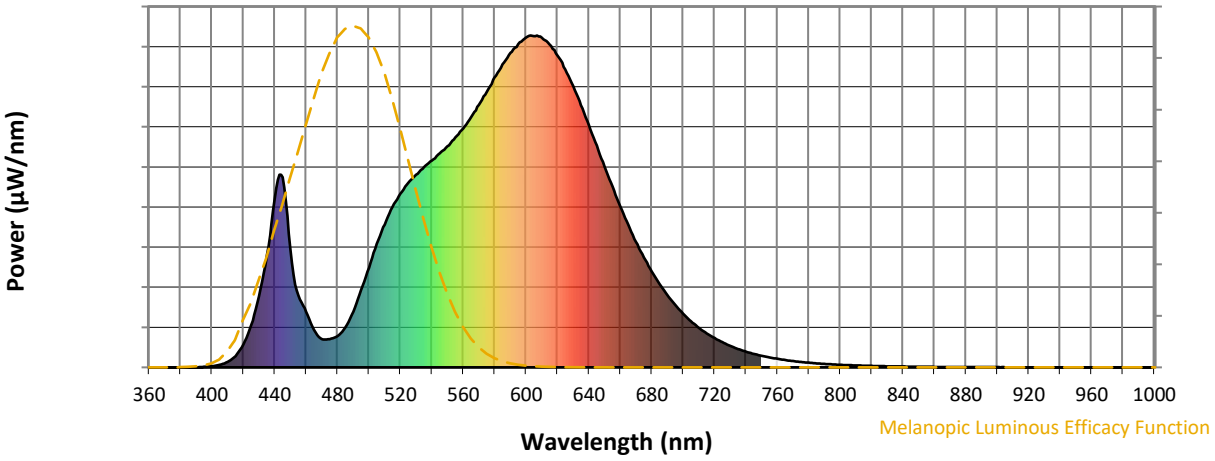
Melanopic Flux vs. Wavelength



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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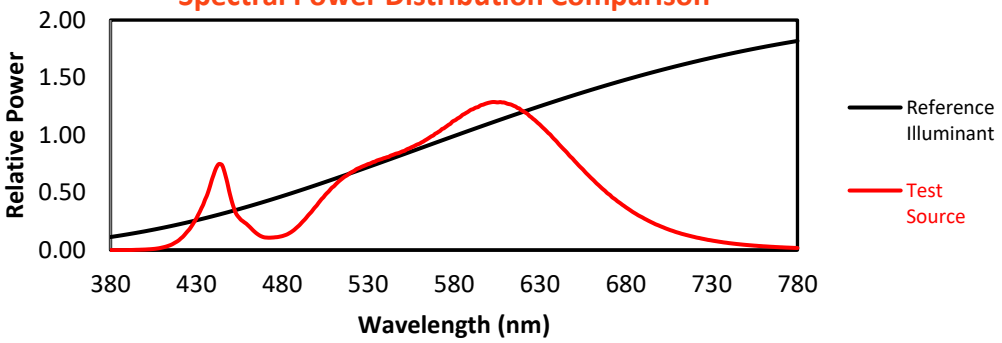
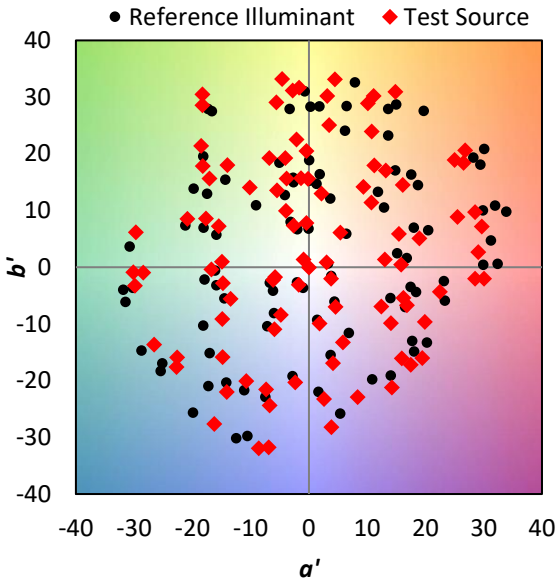
Summary

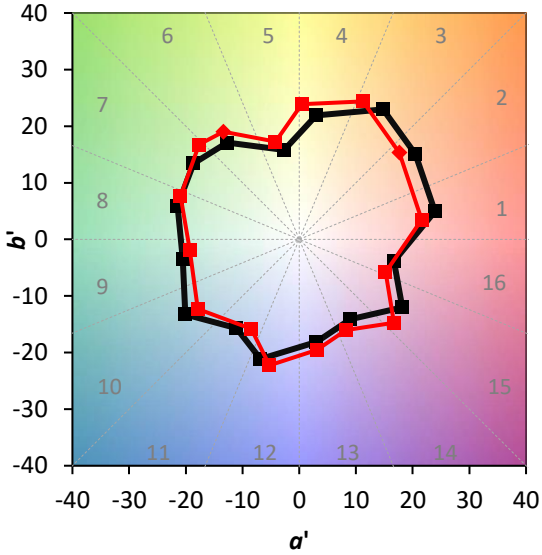
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

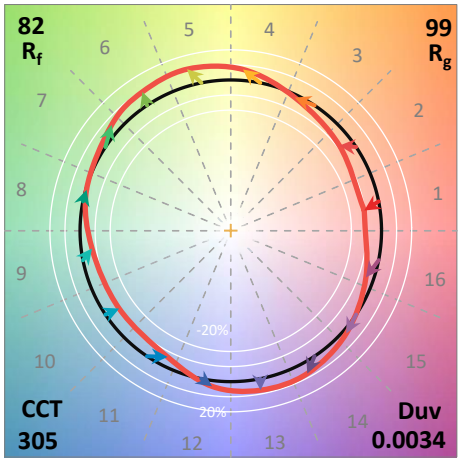
Spectral Power Distribution Comparison

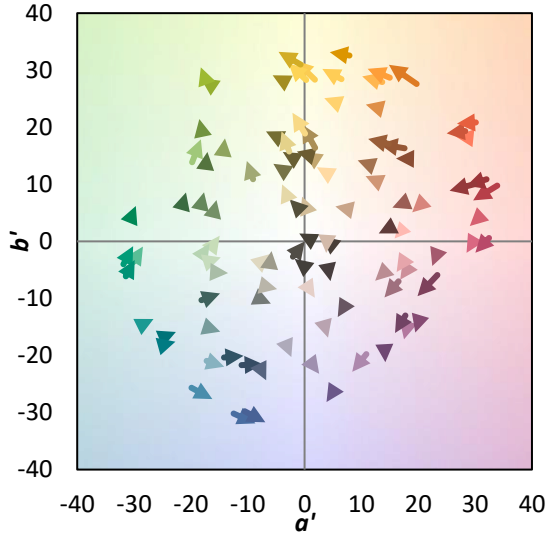


Color Vector Graphics









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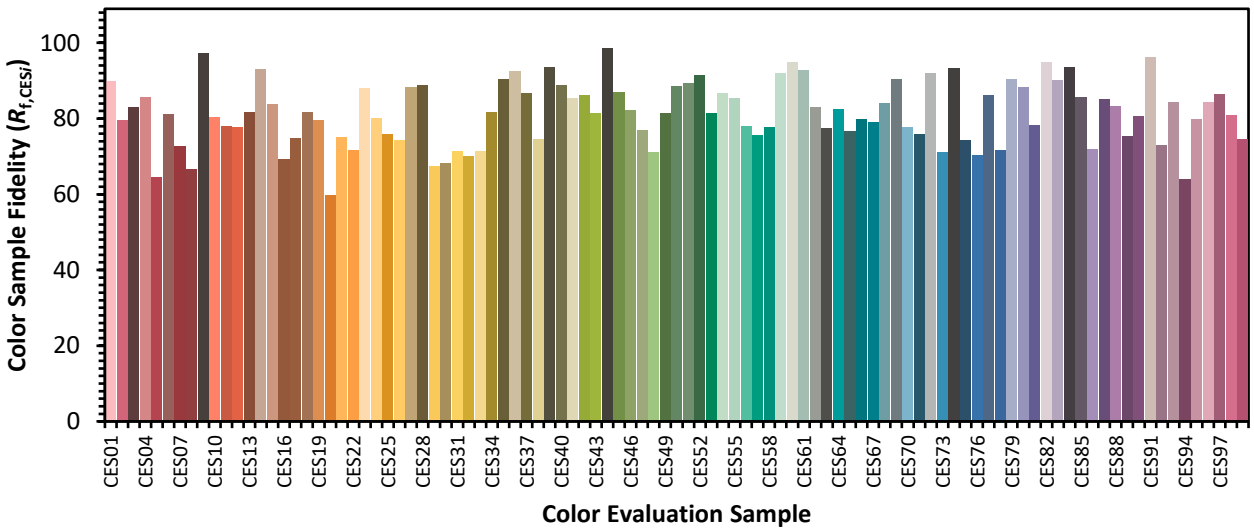
Individual Sample Fidelity Index ($R_{f,i}$)

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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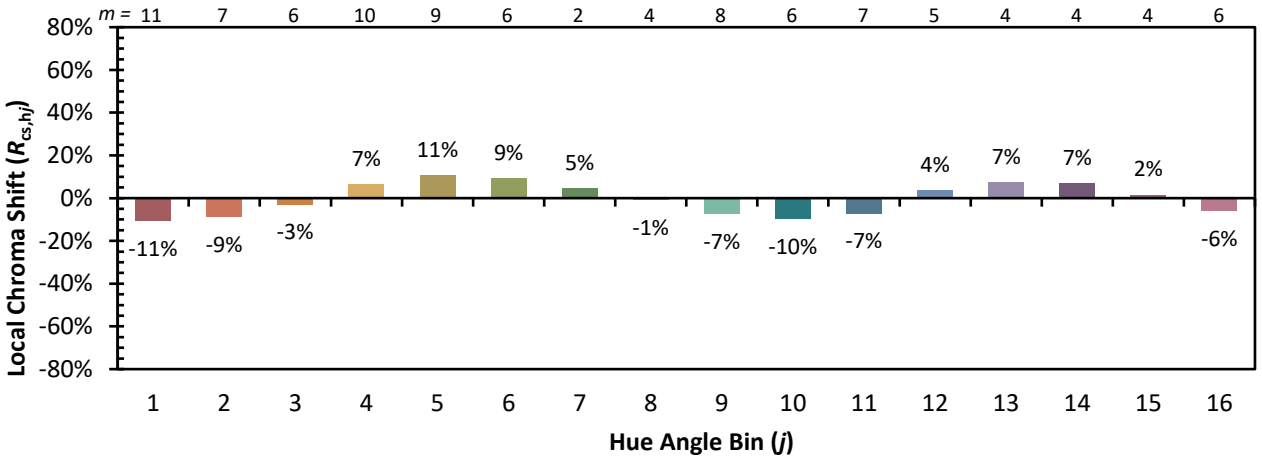
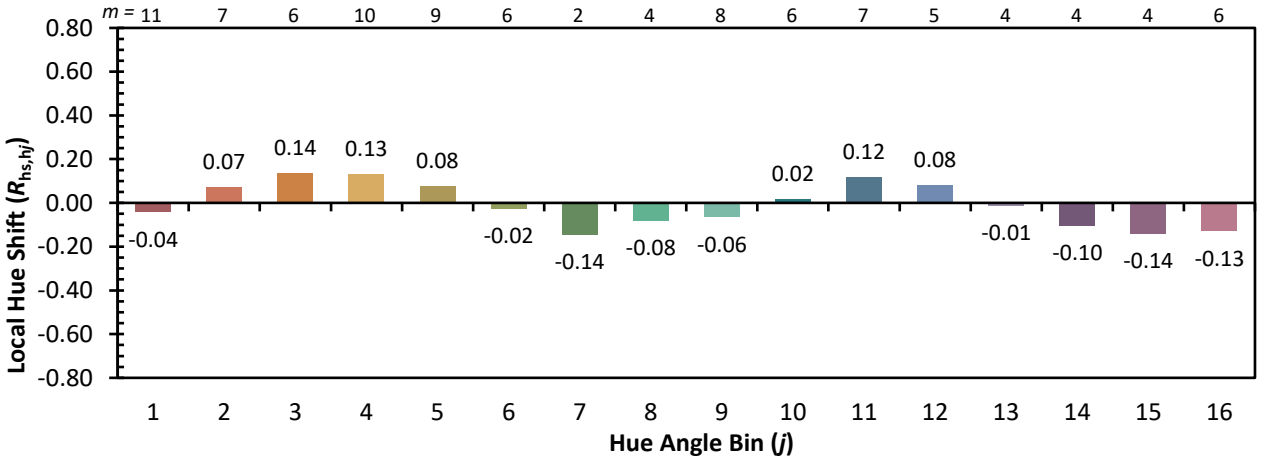
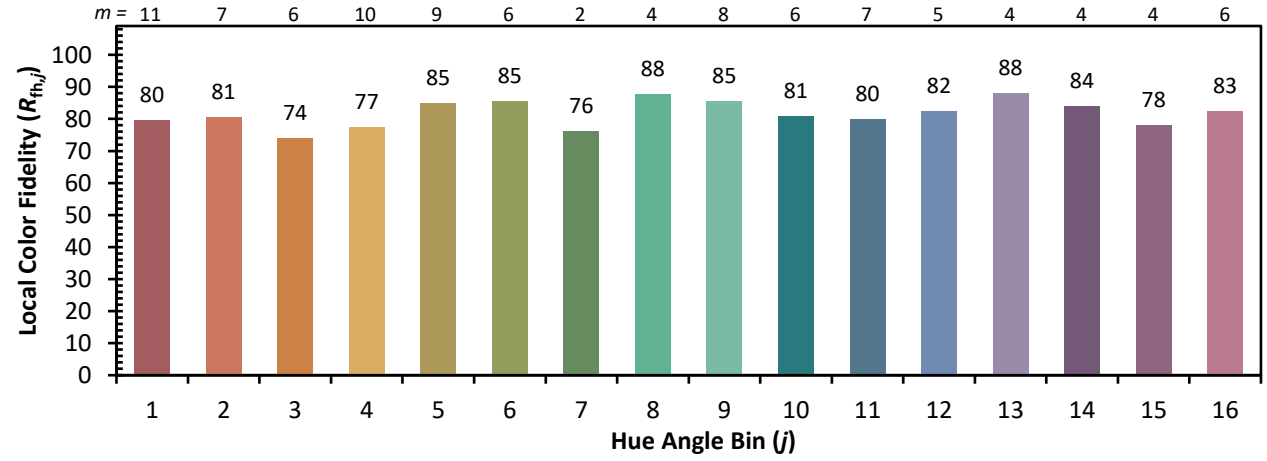
Color Rendition by Hue-Angle Bin







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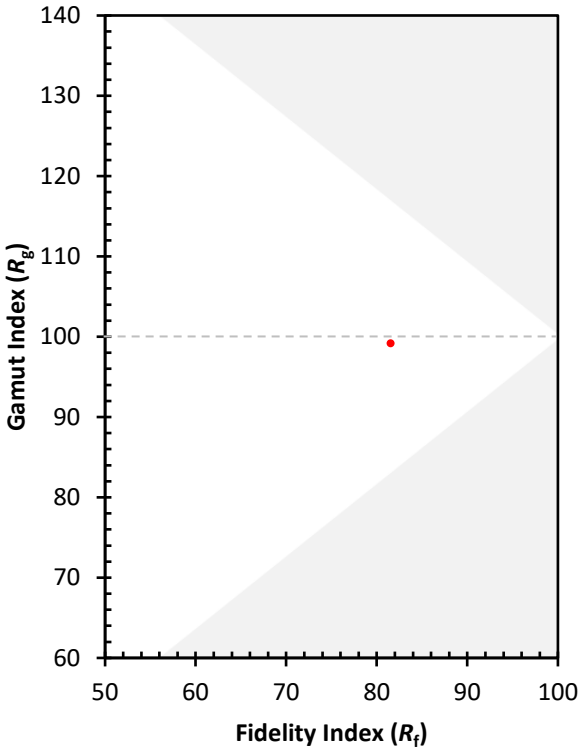
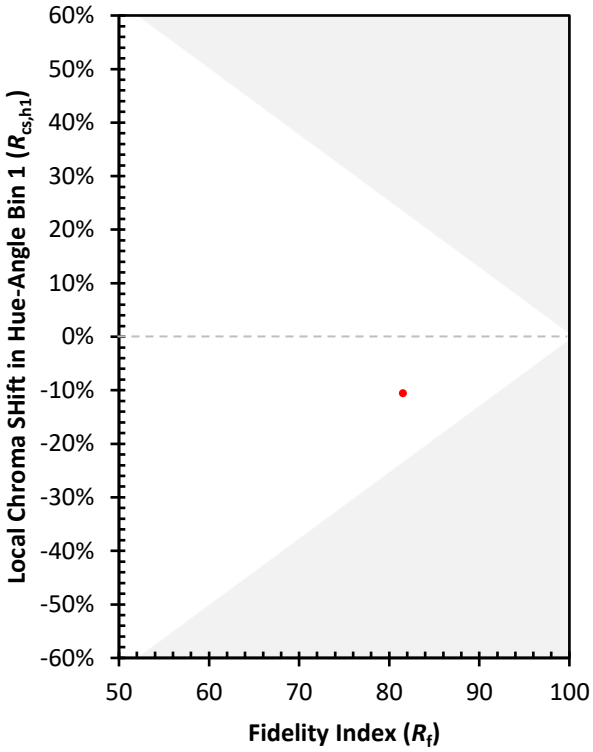
Measure Comparisons





(END OF REPORT)