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: P318584

Luminaire Tested: **GLEON-SA0D-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:	P318584
	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-SA0D-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	61043 lumens
Efficiency:	N/A
Efficacy:	95.4 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B4 - U0 - G5

Input Watts (W):	640
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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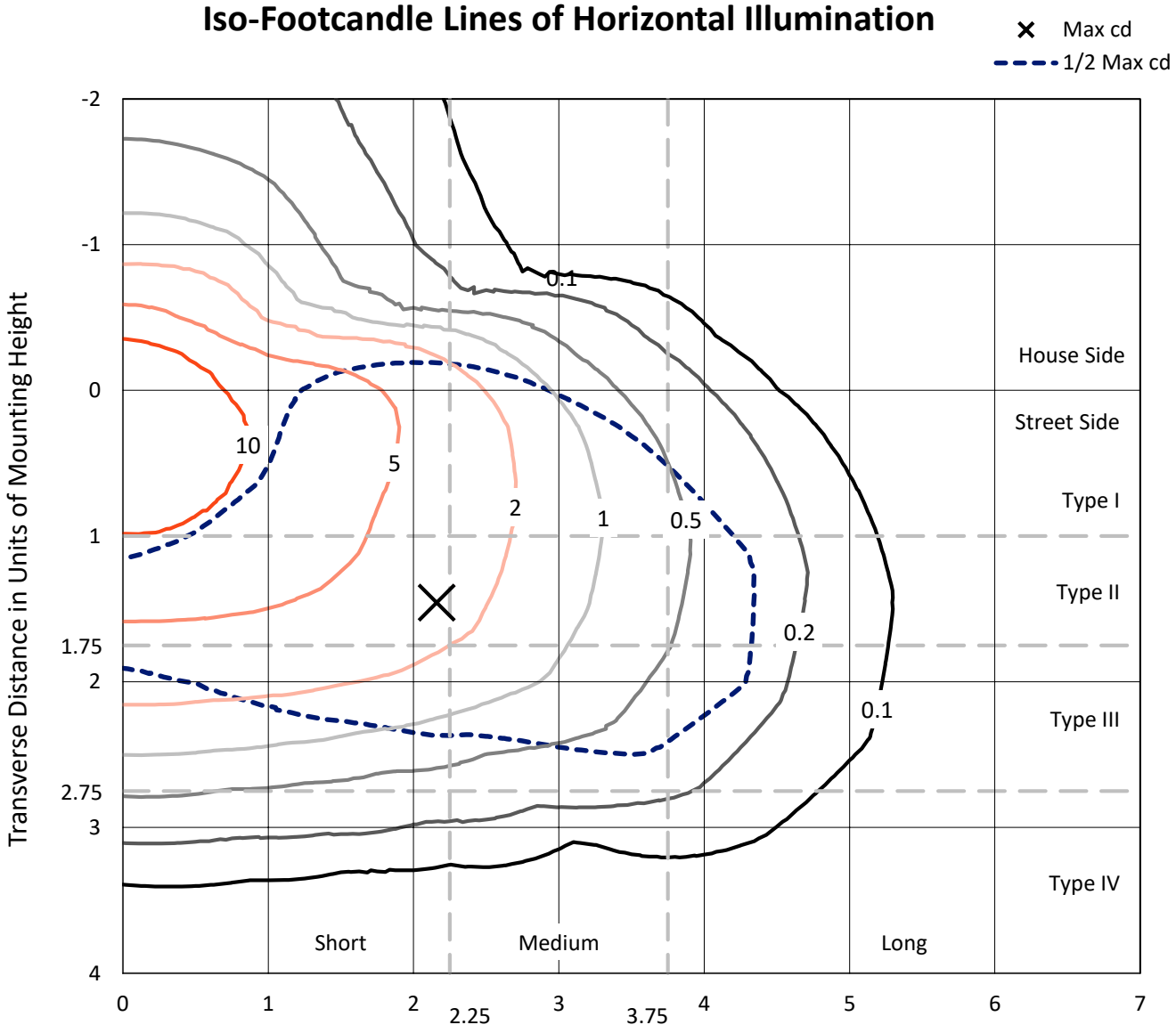
REPORT NUMBER: P318584
CATALOG NUMBER: GLEON-SA0D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type III - Short - N/A

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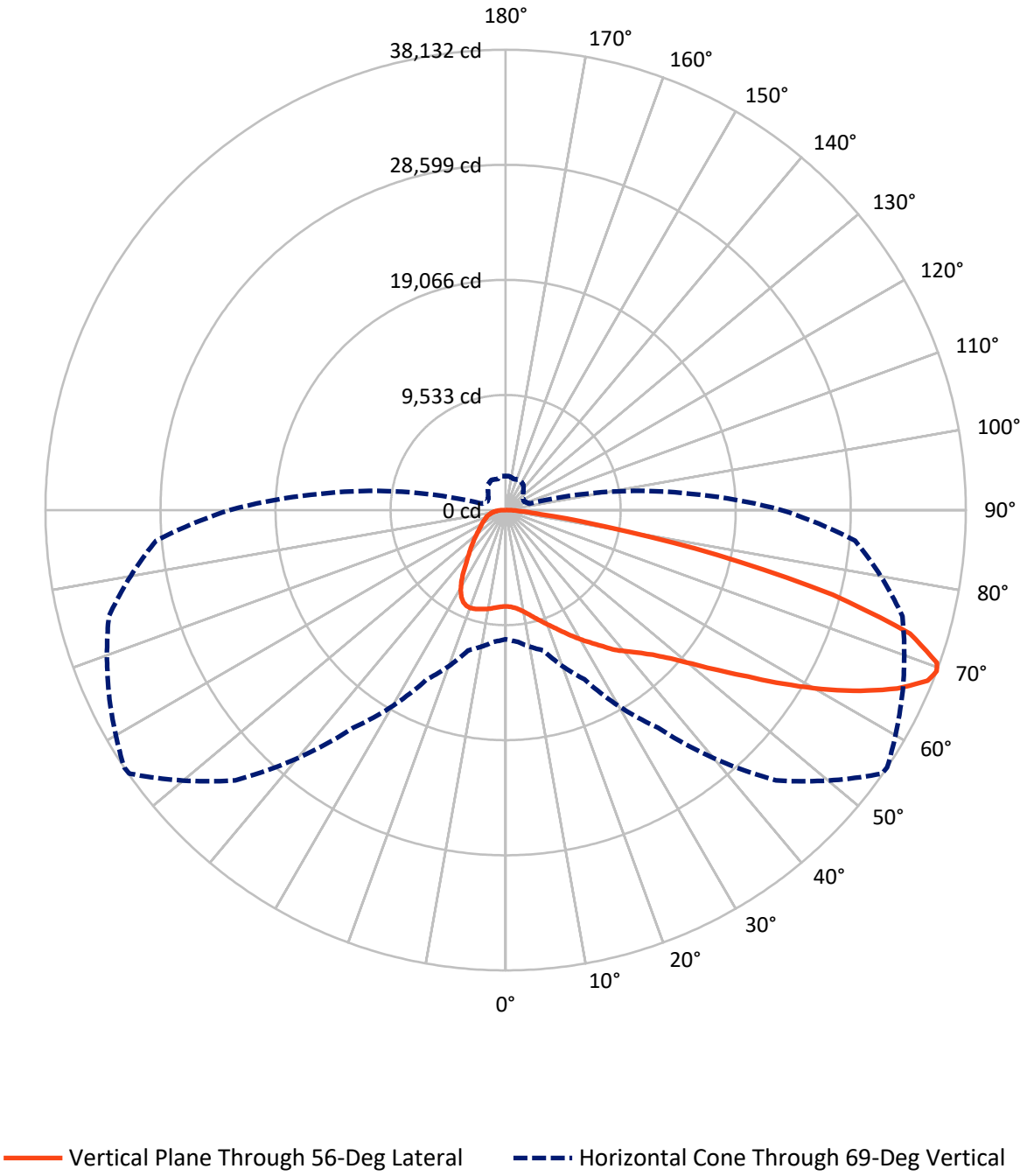
Luminous Intensity Polar Plot



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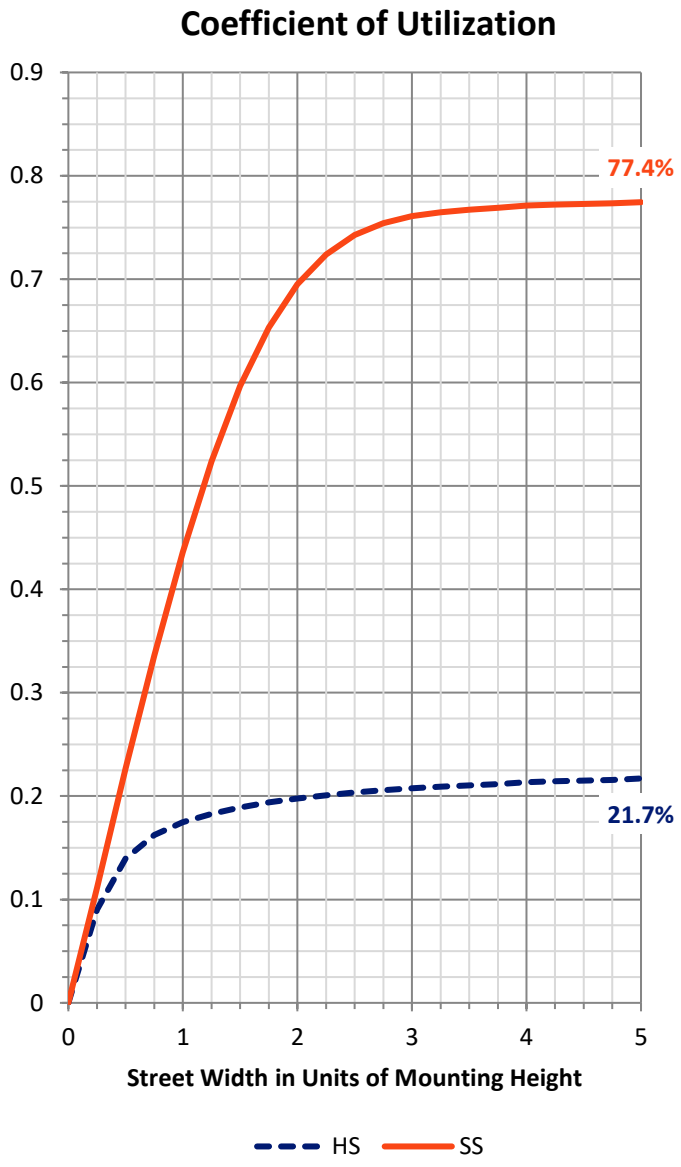
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13594.2	0.0	13594.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	47448.8	0.0	47448.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	61043.0	0.0	61043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.8	1.3
10°-20°	2520.4	4.1
20°-30°	4399.7	7.2
30°-40°	6320.0	10.4
40°-50°	8746.5	14.3
50°-60°	12814.8	21.0
60°-70°	15623.7	25.6
70°-80°	8637.8	14.2
80°-90°	1196.3	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°	61043.0	100.0
0°-180°	61043.0	100.0



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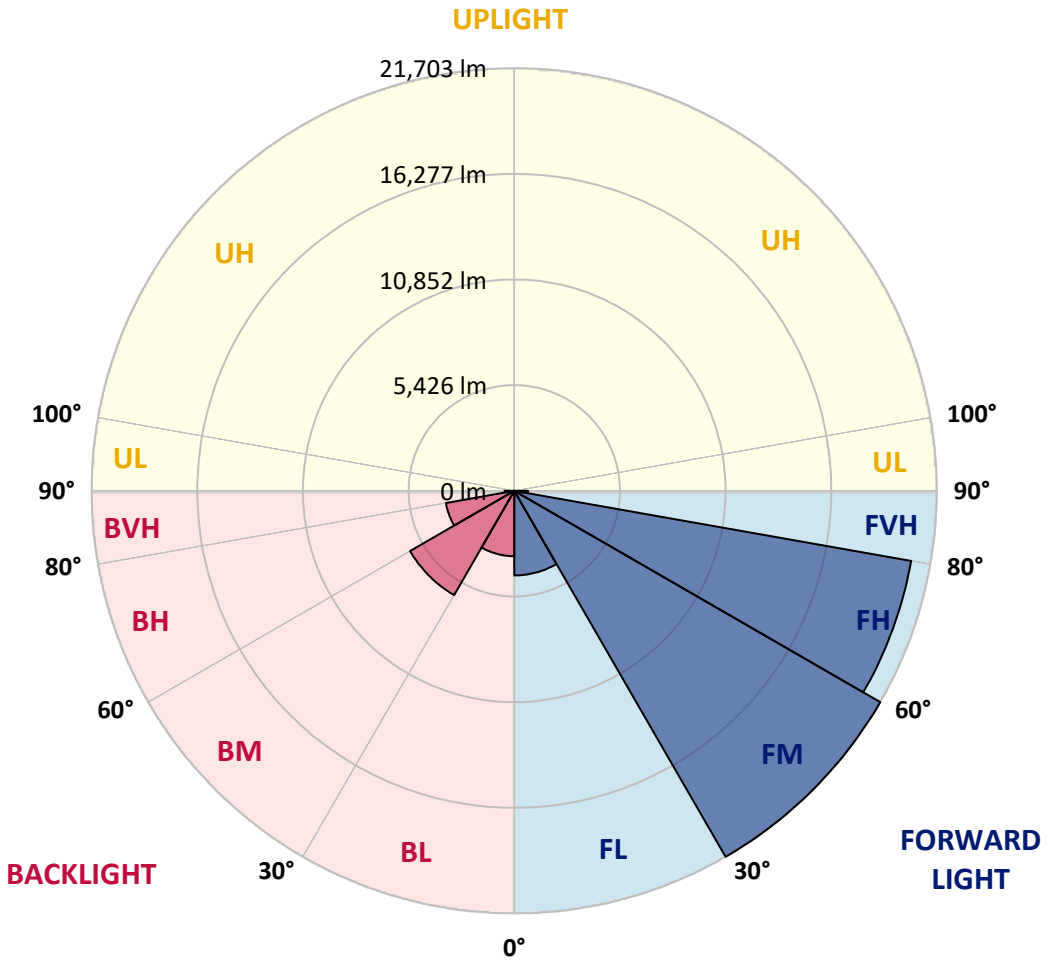
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4344.5	7.1			
FM	(30°-60°)	21703.1	35.6			
FH	(60°-80°)	20696.6	33.9			G5
FVH	(80°-90°)	704.7	1.2			G4/750
BL	(0°-30°)	3359.4	5.5	B4/5000		
BM	(30°-60°)	6178.2	10.1	B4/8500		
BH	(60°-80°)	3564.8	5.8	B4/5000		G4/5000
BVH	(80°-90°)	491.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	*7980.5*	7980.5	7980.5	7980.5
2.5°	8030.9	8039.3	8033.0	8049.8	8030.9	8043.5	8033.0	*8033.0*	8026.7	8007.8	7986.8
5°	8157.1	8173.9	8163.4	8180.2	8157.1	8161.3	8142.4	*8142.4*	8123.4	8083.5	8041.4
7.5°	8354.8	8373.7	8365.3	8382.1	8350.6	8350.6	8325.3	*8323.2*	8285.4	8220.2	8171.8
10°	8590.3	8615.5	8607.1	8632.3	8607.1	8615.5	8590.3	*8590.3*	8539.8	8447.3	8386.3
12.5°	8933.1	8964.6	8941.5	8939.4	8928.9	8945.7	8924.6	*8920.4*	8874.2	8748.0	8663.9
15°	9391.5	9425.1	9376.8	9372.6	9313.7	9307.4	9307.4	*9301.1*	9271.6	9120.2	8981.4
17.5°	9919.3	9929.8	9887.8	9820.5	9744.8	9696.4	9690.1	*9706.9*	9706.9	9530.3	9309.5
20°	10436.6	10455.6	10421.9	10346.2	10249.5	10178.0	10127.5	*10161.1*	10159.0	9948.8	9635.4
22.5°	11000.2	11044.4	10993.9	10897.2	10783.6	10703.7	10615.4	*10644.8*	10646.9	10388.3	9955.1
25°	11729.9	11689.9	11658.4	11521.7	11359.8	11277.8	11195.8	*11225.2*	11216.8	10861.4	10285.2
27.5°	12375.5	12383.9	12341.8	12196.7	12009.6	11828.7	11824.5	*11843.5*	11811.9	11353.5	10596.4
30°	13126.2	13130.4	13071.5	12941.2	12737.2	12503.8	12449.1	*12480.6*	12413.3	11820.3	10924.5
32.5°	13872.7	13893.8	13828.6	13670.9	13506.8	13222.9	13113.6	*13134.6*	12966.4	12297.7	11263.1
35°	14526.7	14556.2	14535.1	14430.0	14251.3	14007.3	13876.9	*13864.3*	13656.1	12882.3	11711.0
37.5°	15193.4	15220.7	15197.6	15109.2	15037.7	14779.1	14709.7	*14709.7*	14348.0	13479.5	12280.9
40°	15878.9	15921.0	15893.6	15771.6	15710.7	15592.9	15426.8	*15386.8*	14995.7	14196.6	13210.3
42.5°	16516.1	16570.7	16680.1	16608.6	16484.5	16501.3	16167.0	*16146.0*	15860.0	15256.4	14377.4
45°	17420.3	17500.2	17685.3	17630.6	17605.4	17512.8	17115.4	*17096.5*	16987.1	16682.2	15826.3
47.5°	18406.6	18515.9	18850.3	18860.8	19132.1	18957.5	18417.1	*18351.9*	18377.1	18389.7	17594.8
50°	19315.0	19434.9	19983.7	20242.4	20881.7	20919.5	20055.2	*19996.3*	20095.2	20385.4	19655.7
52.5°	20040.5	20191.9	20877.5	21676.6	22772.2	23083.4	22071.9	*22027.7*	22101.3	22601.8	21985.7
55°	20572.5	20736.6	21483.1	22938.3	24687.9	25236.7	24393.5	*24351.4*	24397.7	25034.9	24519.7
57.5°	20696.6	20736.6	21819.5	23787.8	26305.0	27623.5	27234.5	*27150.4*	26923.3	27478.4	27316.5
60°	20114.1	20273.9	21542.0	24086.5	27556.2	29976.6	30203.8	*30098.6*	29461.4	29915.7	29785.3
62.5°	18932.3	19218.3	20505.2	23632.2	28046.2	31898.7	33116.3	*32990.1*	31892.4	32186.8	31560.1
65°	17001.8	17123.8	18476.0	22065.6	27423.7	33128.9	35713.3	*35650.2*	34268.6	33808.1	31888.2
67.5°	13548.9	13778.1	14926.3	18791.4	24877.1	32983.8	37721.6	*37715.3*	35820.6	34409.5	30725.3
69°	*10703.7*	*10941.3*	*12034.8*	*15479.3*	*22013.0*	*31656.8*	*38058.0*	*38131.6*	*36258.0*	*34043.6*	*29064.0*
70°	8533.5	8809.0	9559.7	13037.9	19470.6	29907.2	37778.4	*37910.8*	36173.8	33440.1	27531.0
72.5°	3631.7	3854.6	4388.7	6720.8	11866.6	22332.7	34542.0	*35042.5*	34224.5	30605.4	22753.2
75°	1585.6	1655.0	1896.8	2740.1	5267.7	12154.7	27059.9	*27985.2*	29263.8	25869.7	16949.3
77.5°	1160.8	1190.2	1322.7	1608.7	2363.6	4590.6	17401.4	*17939.7*	21104.6	18825.0	10396.7
80°	897.9	919.0	1022.0	1181.8	1543.5	1856.8	7936.3	*8398.9*	11866.6	9669.1	4329.8
82.5°	715.0	729.7	801.2	870.6	1066.2	1125.0	2634.9	*2923.0*	4380.3	2670.7	1146.1
85°	664.5	681.3	706.6	635.1	683.4	660.3	1139.8	*1192.3*	1322.7	1049.3	479.5
87.5°	300.7	355.4	700.3	494.2	363.8	290.2	466.8	*487.9*	548.9	551.0	212.4
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: P318584
CATALOG NUMBER: GLEON-SA0D-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5	7980.5
2.5°	7999.4	7993.1	8003.6	7978.4	8009.9	8007.8	7997.3	8001.5	8022.5	8020.4	8022.5
5°	8047.7	8043.5	8056.2	8037.2	8075.1	8087.7	8089.8	8108.7	8131.9	8138.2	8138.2
7.5°	8169.7	8169.7	8176.0	8150.8	8176.0	8173.9	8163.4	8182.3	8205.5	8207.6	8205.5
10°	8380.0	8382.1	8371.6	8306.4	8285.4	8228.6	8176.0	8178.1	8207.6	8230.7	8237.0
12.5°	8645.0	8636.6	8590.3	8470.4	8382.1	8266.4	8211.8	8209.7	8239.1	8258.0	8264.3
15°	8947.8	8924.6	8804.8	8609.2	8453.6	8340.0	8251.7	8230.7	8213.9	8192.8	8194.9
17.5°	9233.8	9181.2	8981.4	8710.2	8546.1	8394.7	8224.4	8087.7	7993.1	7938.4	7921.6
20°	9524.0	9420.9	9132.8	8804.8	8596.6	8321.1	7993.1	7715.5	7543.1	7463.1	7448.4
22.5°	9788.9	9622.8	9273.7	8903.6	8556.6	8073.0	7557.8	7154.0	6914.3	6807.0	6815.5
25°	10047.6	9816.3	9420.9	8973.0	8354.8	7635.6	6952.1	6455.9	6178.3	6058.4	6054.2
27.5°	10274.7	10011.8	9580.7	8916.2	7978.4	7013.1	6235.1	5751.4	5520.1	5417.0	5400.2
30°	10535.5	10257.9	9793.1	8699.6	7427.4	6293.9	5534.8	5194.1	5030.1	4927.1	4908.1
32.5°	10853.0	10592.2	9967.7	8306.4	6722.9	5543.2	4988.0	4750.4	4601.1	4485.5	4464.4
35°	11315.6	11033.8	10011.8	7742.8	5949.1	4950.2	4586.4	4342.5	4140.6	3991.3	3976.6
37.5°	11896.0	11586.9	9910.9	7013.1	5198.3	4565.4	4252.0	3951.3	3688.5	3478.2	3444.5
40°	12733.0	12266.1	9631.2	6172.0	4645.3	4268.9	3926.1	3583.3	3257.4	3011.3	2963.0
42.5°	13738.2	13063.1	9202.2	5335.0	4239.4	3968.1	3602.2	3177.5	2866.2	2691.7	2666.5
45°	15016.7	13891.7	8607.1	4603.2	3839.9	3667.4	3253.2	2862.0	2668.6	2540.3	2519.3
47.5°	16476.1	14821.1	7982.6	4008.1	3501.3	3385.6	2973.5	2721.1	2567.6	2466.7	2447.8
50°	18269.9	15870.5	7320.1	3520.2	3160.6	3047.1	2841.0	2643.3	2521.4	2443.6	2424.6
52.5°	20292.9	17054.4	6842.8	3135.4	2878.9	2796.8	2771.6	2601.3	2502.4	2443.6	2424.6
55°	22471.4	18259.4	6327.6	2811.6	2634.9	2658.0	2725.3	2605.5	2538.2	2466.7	2439.3
57.5°	24652.1	19504.3	5753.5	2538.2	2441.5	2555.0	2693.8	2613.9	2557.1	2487.7	2462.5
60°	26376.5	20292.9	4864.0	2309.0	2287.9	2441.5	2618.1	2550.8	2477.2	2479.3	2475.1
62.5°	27181.9	20250.8	3881.9	2105.0	2134.4	2287.9	2496.1	2452.0	2391.0	2473.0	2479.3
65°	26729.8	19241.4	3021.8	1919.9	1970.4	2128.1	2370.0	2403.6	2424.6	2582.3	2603.4
67.5°	24833.0	17277.3	2340.5	1758.0	1821.1	2018.8	2382.6	2618.1	2645.4	2811.6	2809.5
69°	*22871.0*	*15435.2*	*2033.5*	*1673.9*	*1747.5*	*2046.1*	*2546.6*	*2754.8*	*2651.7*	*2828.4*	*2803.1*
70°	21226.5	13977.9	1869.5	1617.1	1713.9	2094.5	2655.9	2752.7	2620.2	2771.6	2729.5
72.5°	16347.8	10056.0	1585.6	1512.0	1600.3	2004.1	2687.5	2691.7	2546.6	2576.0	2504.5
75°	11212.6	6354.9	1383.7	1369.0	1427.9	1806.4	2586.6	2571.8	2355.2	2313.2	2254.3
77.5°	6182.5	3227.9	1175.5	1232.3	1272.2	1600.3	2351.0	2330.0	2151.3	2062.9	2041.9
80°	2384.7	1413.1	992.6	1095.6	1120.8	1385.8	2060.8	2041.9	1892.6	1779.0	1747.5
82.5°	900.0	740.2	820.1	948.4	940.0	1144.0	1745.4	1734.9	1589.8	1423.7	1373.2
85°	416.4	443.7	649.8	782.3	721.3	847.5	1396.3	1415.2	1238.6	1040.9	1040.9
87.5°	176.6	248.1	460.5	590.9	485.8	572.0	1024.1	977.8	897.9	622.5	584.6
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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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

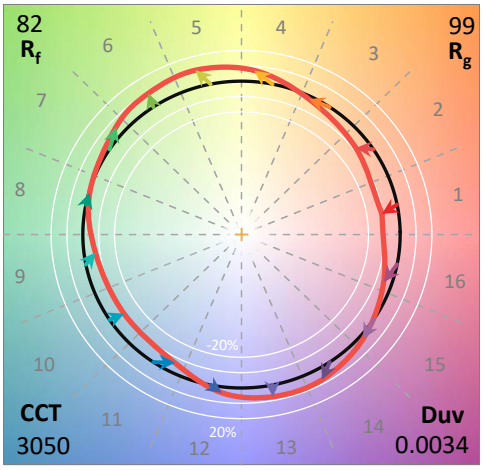
Test Information

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

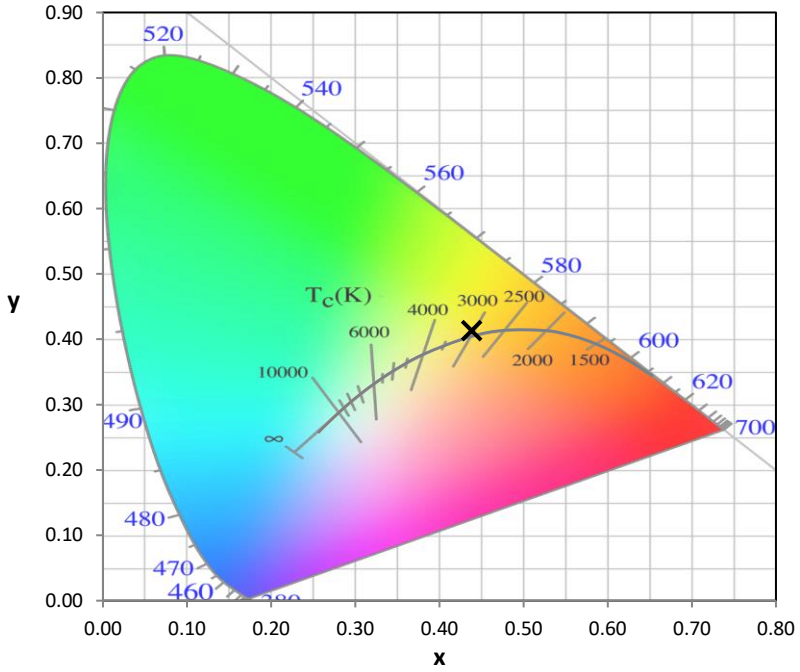
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

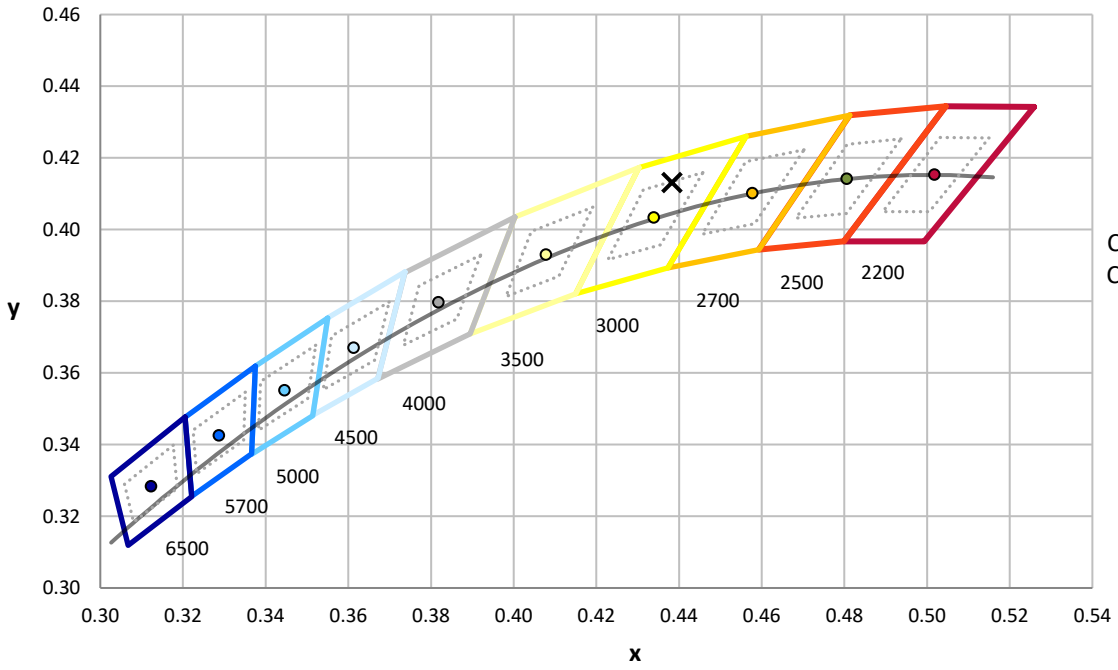
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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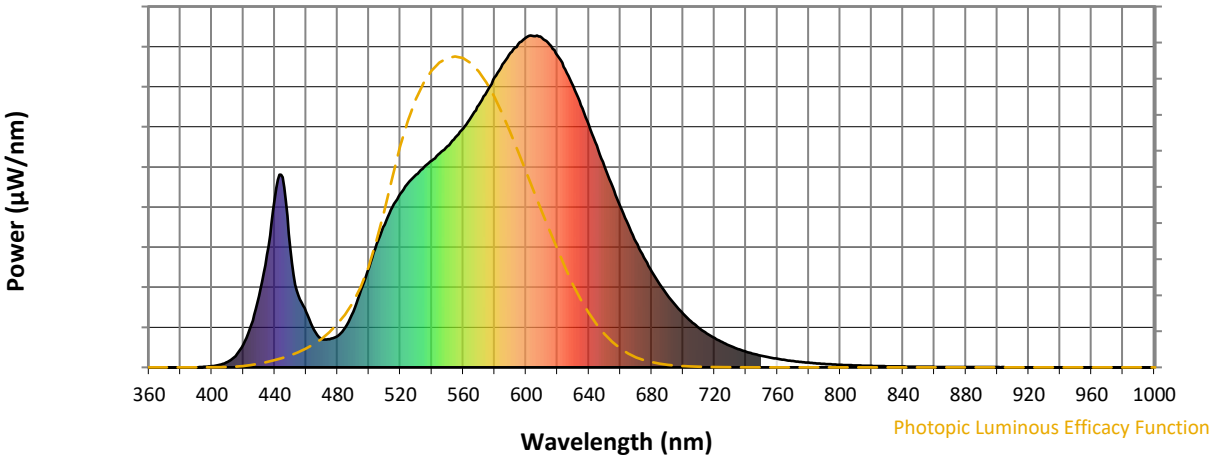
Photopic Flux vs. Wavelength



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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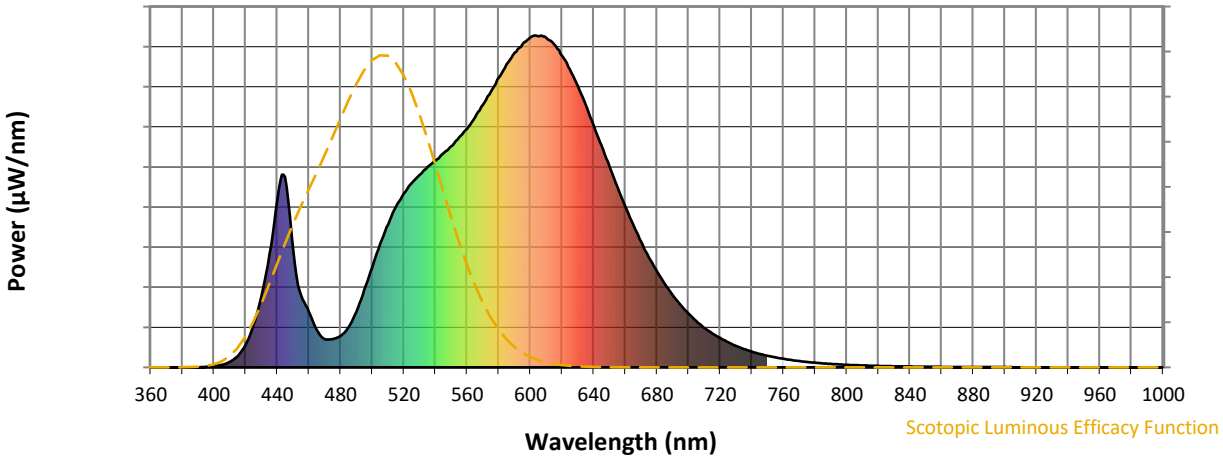
Scotopic Flux vs. Wavelength



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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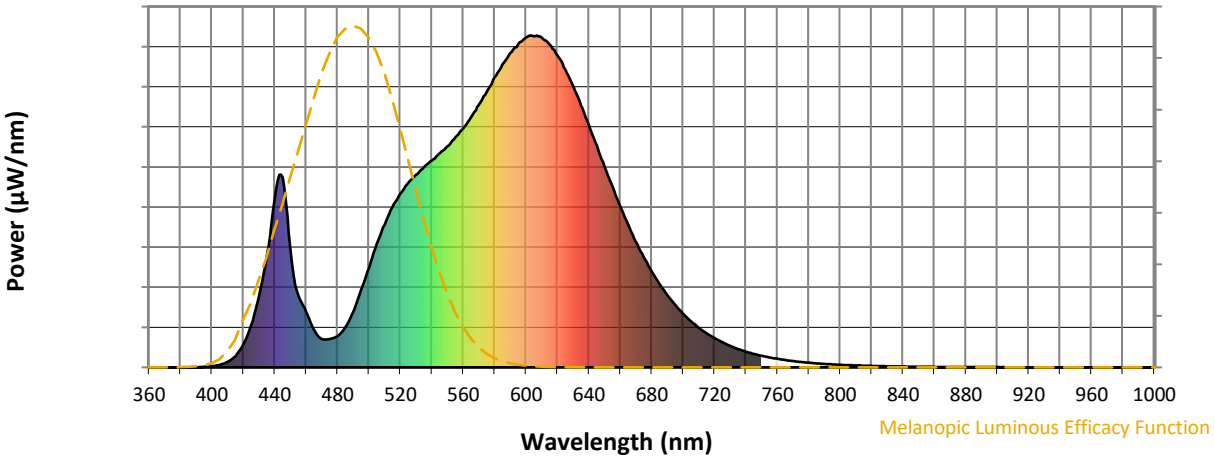
Melanopic Flux vs. Wavelength



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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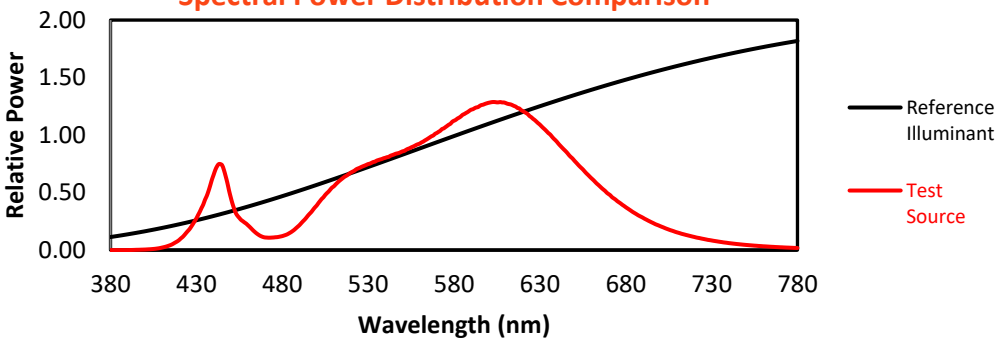
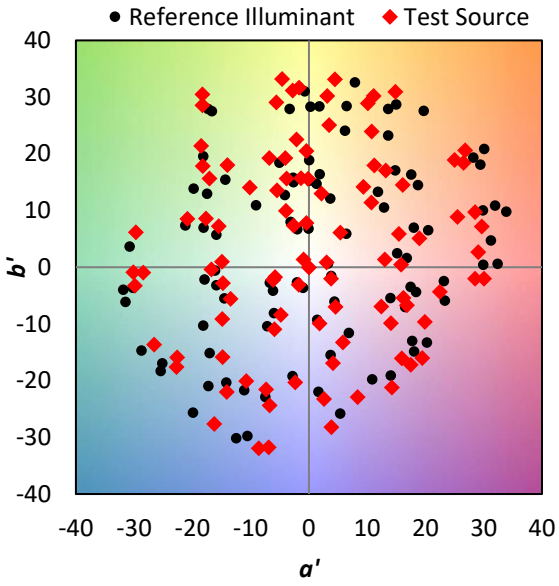
Summary

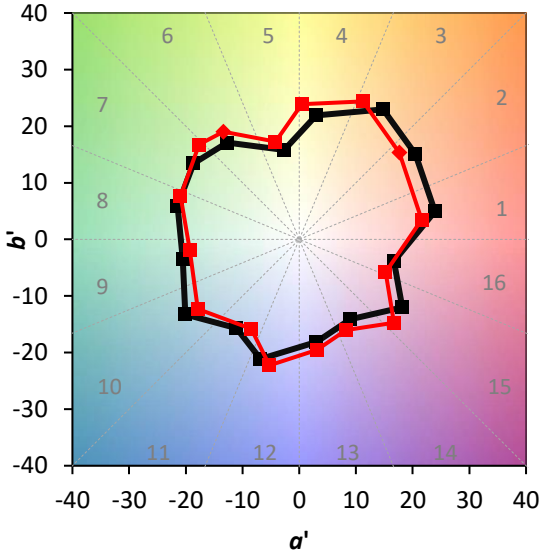
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

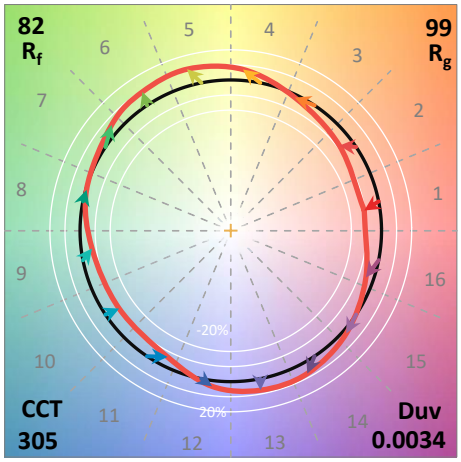
Spectral Power Distribution Comparison

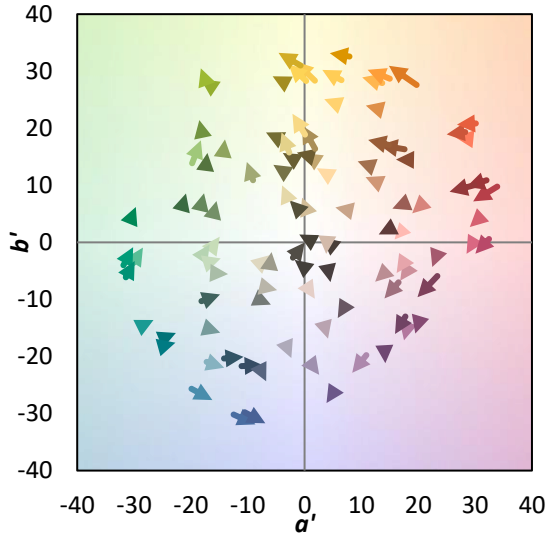


Color Vector Graphics









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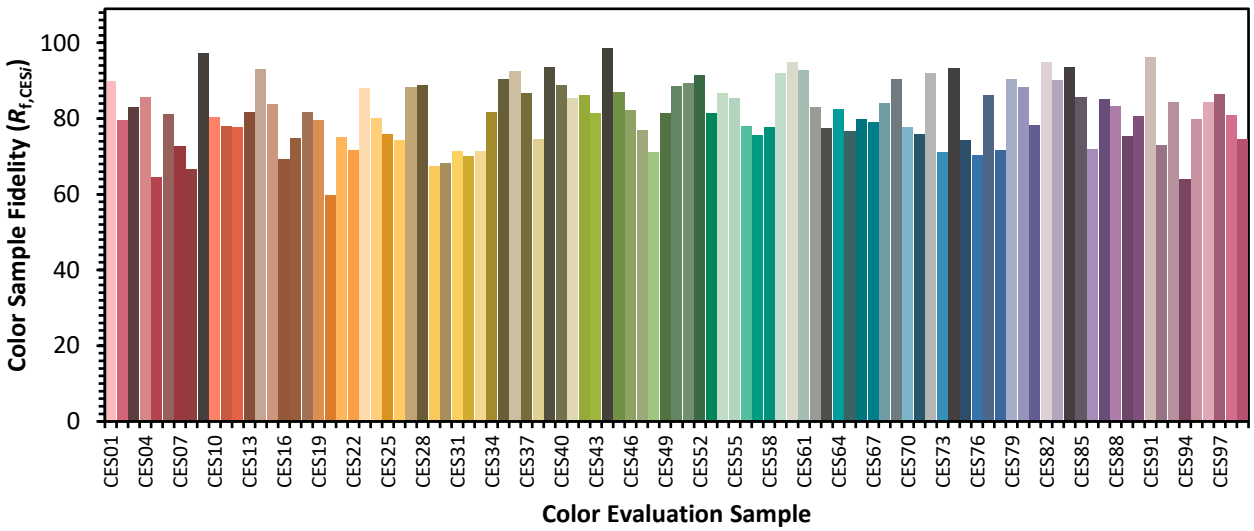
Individual Sample Fidelity Index ($R_{f,i}$)

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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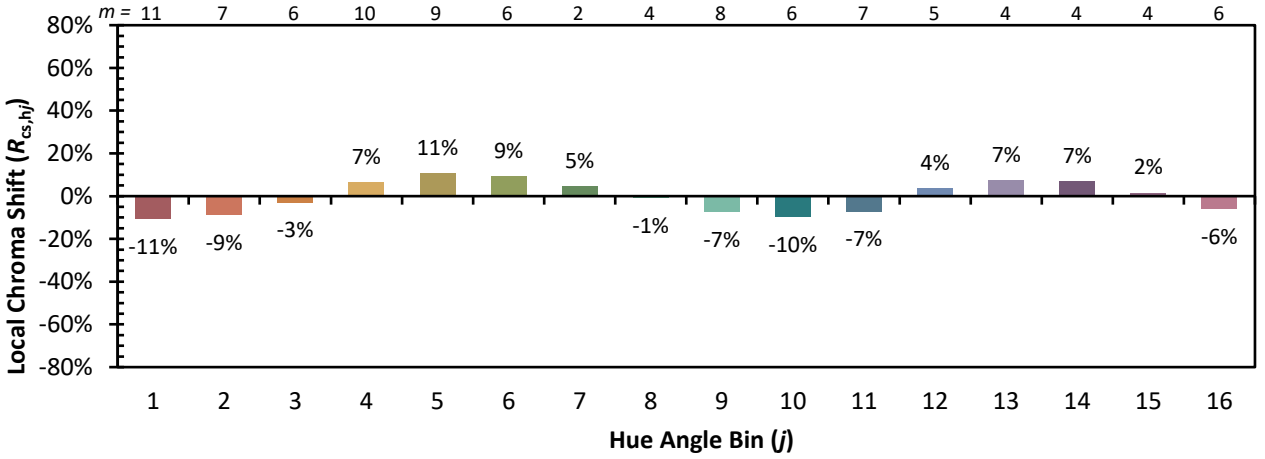
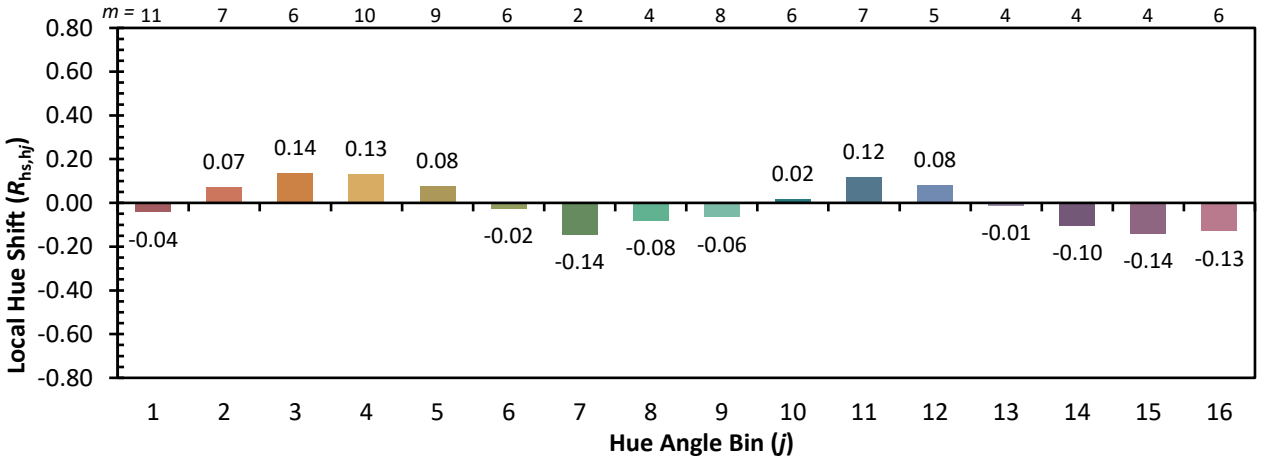
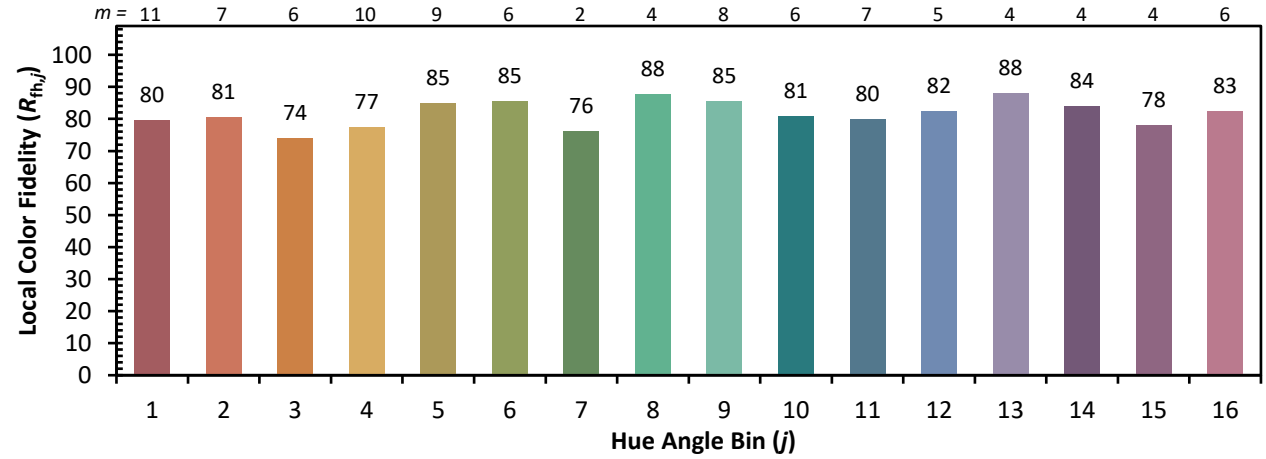
Color Rendition by Hue-Angle Bin







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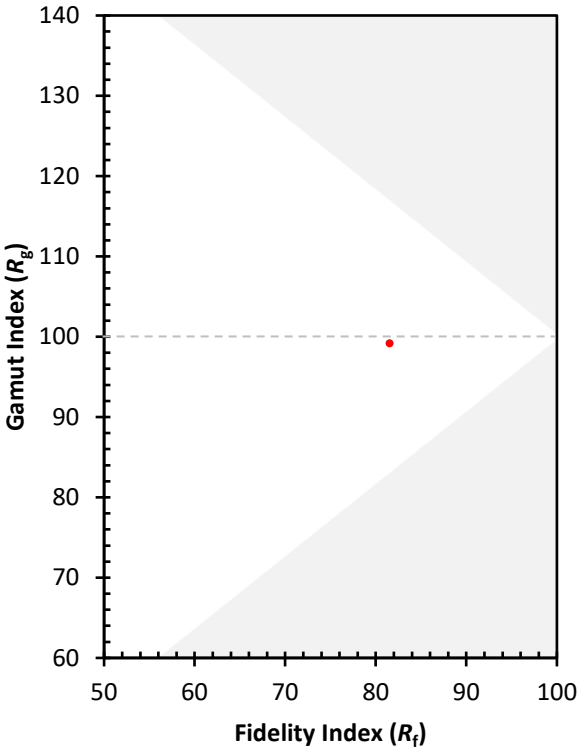
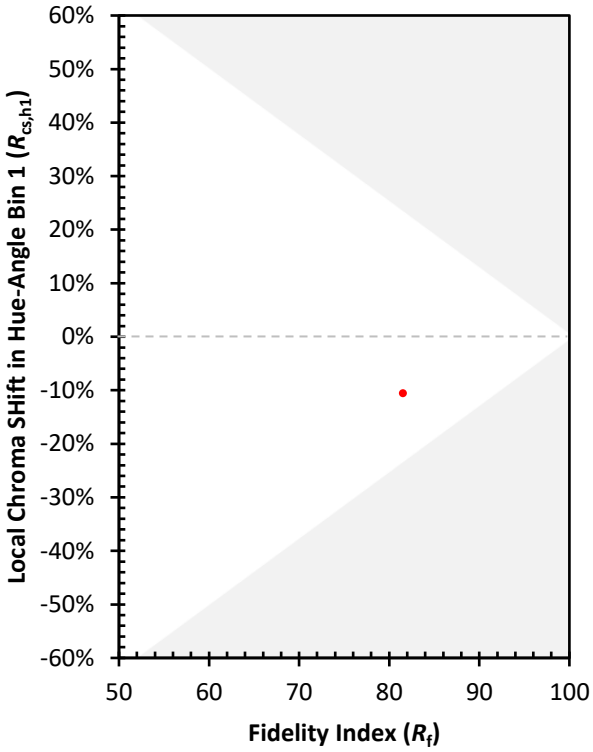
Measure Comparisons





(END OF REPORT)