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: P319539

Luminaire Tested: **GLEON-SA5D-830-U-SL2**

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:	P319539
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5D-830-U-SL2
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30188 lumens
Efficiency:	N/A
Efficacy:	94.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	320
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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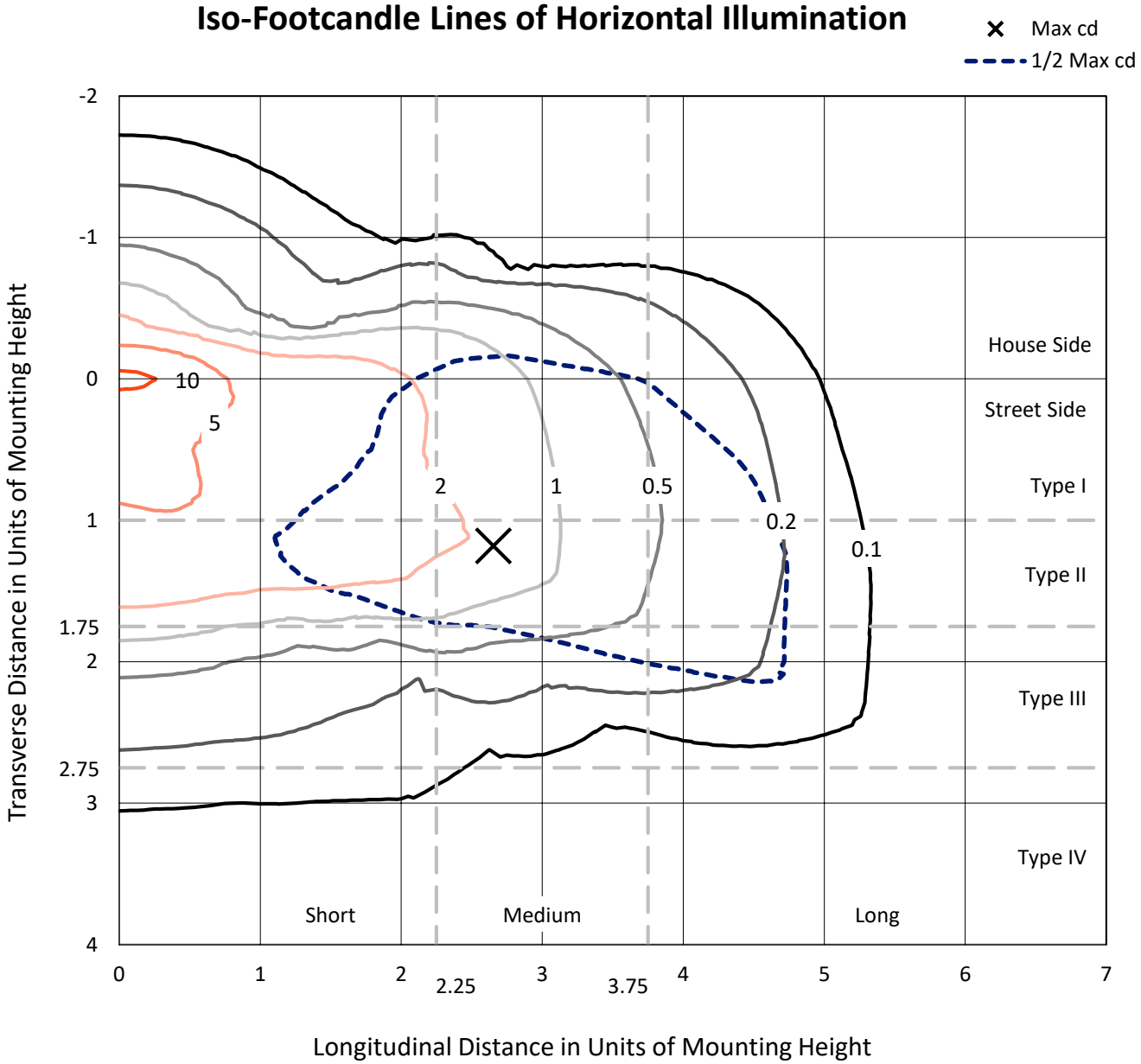
REPORT NUMBER: P319539
CATALOG NUMBER: GLEON-SA5D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type III - Medium - N/A

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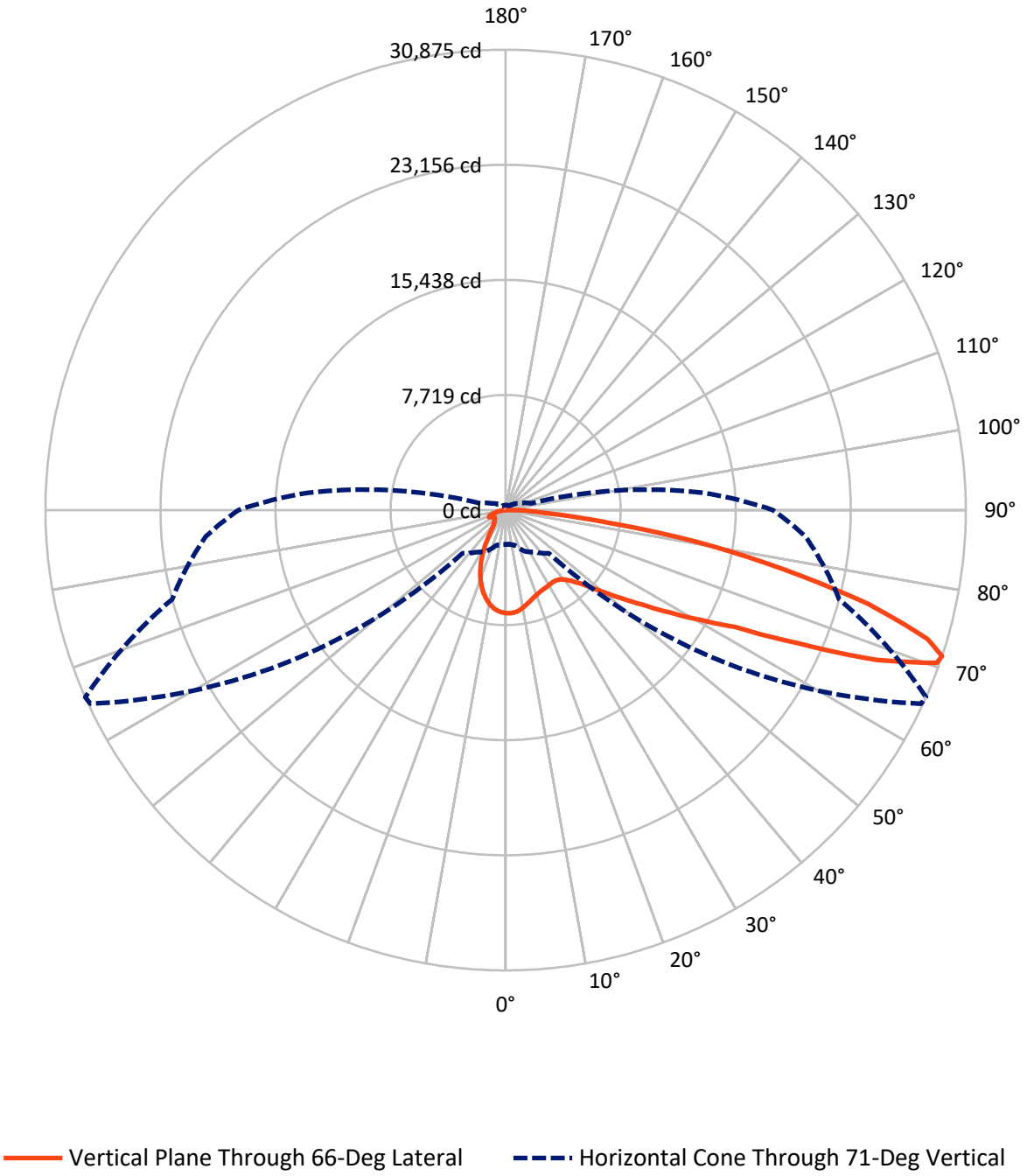
Luminous Intensity Polar Plot



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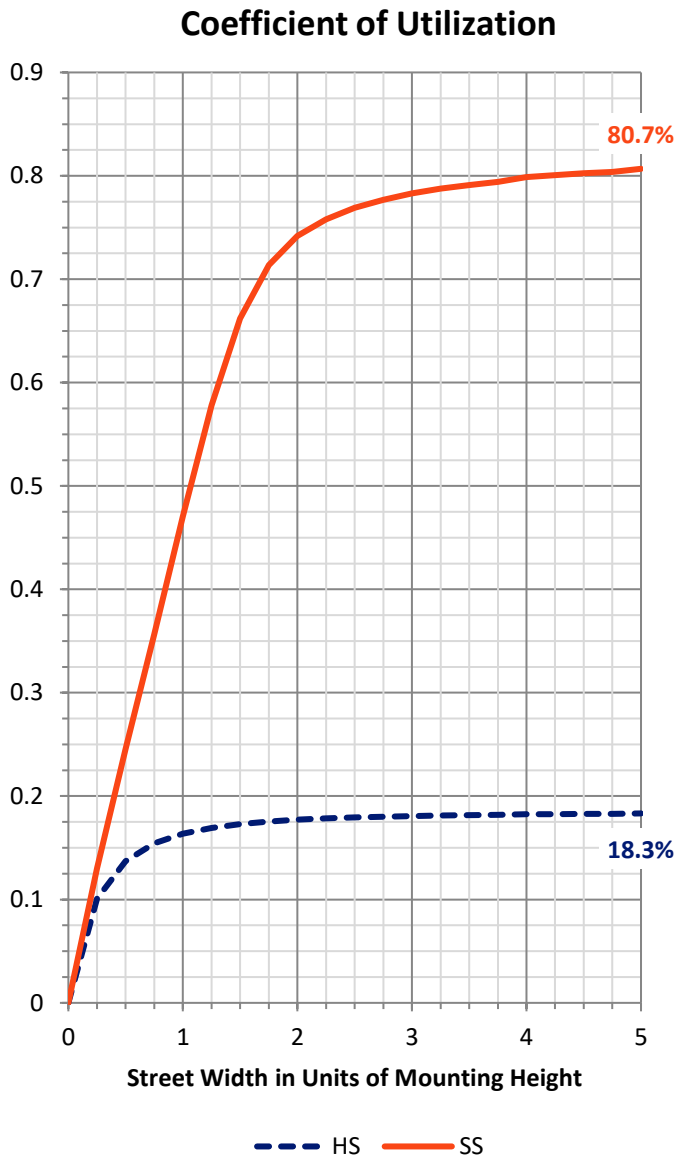
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5594.7	0.0	5594.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	24593.3	0.0	24593.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	30188.0	0.0	30188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.7	2.0
10°-20°	1460.0	4.8
20°-30°	1961.1	6.5
30°-40°	2579.8	8.5
40°-50°	3753.0	12.4
50°-60°	5862.6	19.4
60°-70°	7343.8	24.3
70°-80°	5601.7	18.6
80°-90°	1017.2	3.4
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°	30188.0	100.0
0°-180°	30188.0	100.0



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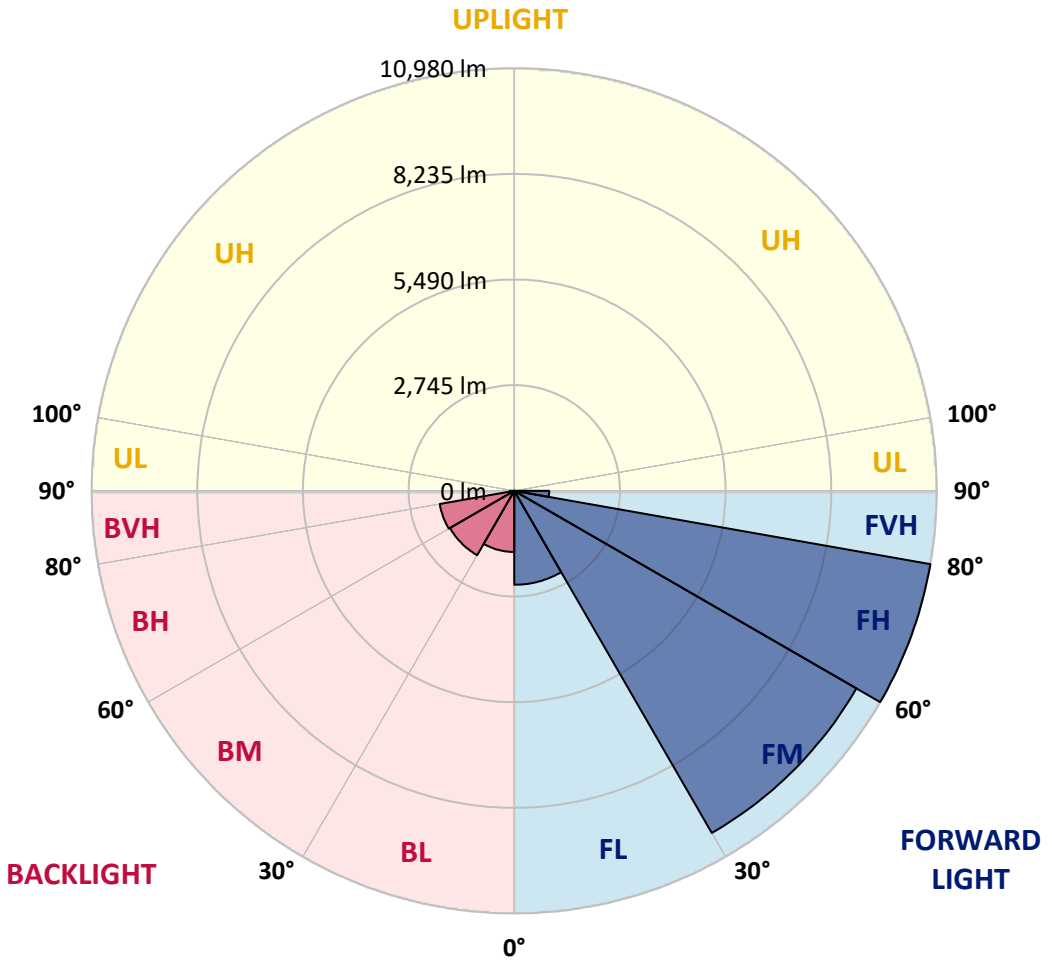
REPORT NUMBER: P319539
CATALOG NUMBER: GLEON-SA5D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2441.1	8.1			
FM	(30°-60°)	10265.4	34.0			
FH	(60°-80°)	10979.7	36.4			G4/12000
FVH	(80°-90°)	907.1	3.0			G5
BL	(0°-30°)	1588.7	5.3	B3/2500		
BM	(30°-60°)	1930.0	6.4	B2/2500		
BH	(60°-80°)	1965.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	110.1	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	*6915.5*	6915.5	6915.5
2.5°	6787.3	6776.9	6808.1	6840.4	6852.9	6873.8	6905.1	6922.8	*6921.7*	6924.9	6914.4
5°	6337.0	6323.5	6386.0	6437.1	6535.1	6645.5	6780.0	6875.9	*6878.0*	6932.2	6946.8
7.5°	5910.7	5901.4	5973.3	6055.6	6169.2	6338.1	6555.9	6762.3	*6774.8*	6921.7	6972.8
10°	5568.9	5566.8	5636.6	5726.3	5858.6	6047.3	6297.4	6599.7	*6618.4*	6871.7	6977.0
12.5°	5302.0	5306.2	5366.7	5468.8	5608.5	5805.5	6076.5	6417.3	*6447.5*	6792.5	6953.0
15°	5105.1	5121.7	5170.7	5273.9	5411.5	5611.6	5889.9	6248.4	*6294.3*	6703.9	6939.5
17.5°	4992.5	5011.3	5045.6	5131.1	5260.4	5453.2	5716.9	6109.8	*6151.5*	6636.2	6940.5
20°	4959.1	4974.8	4994.6	5046.7	5156.1	5331.2	5580.3	5984.7	*6029.6*	6582.0	6950.9
22.5°	5024.8	5036.3	5038.4	5034.2	5100.9	5243.7	5481.3	5893.0	*5941.0*	6546.5	6958.2
25°	5165.5	5181.1	5169.7	5131.1	5109.2	5196.8	5430.2	5832.6	*5880.5*	6520.5	6943.6
27.5°	5377.1	5379.2	5369.8	5319.8	5216.6	5202.0	5414.6	5797.1	*5843.0*	6490.2	6913.4
30°	5664.8	5678.3	5661.6	5593.9	5425.0	5285.4	5433.4	5762.7	*5804.4*	6451.7	6864.4
32.5°	6001.4	6034.8	6033.7	5962.8	5721.0	5471.9	5510.5	5741.9	*5774.2*	6411.0	6805.0
35°	6350.6	6396.4	6481.9	6451.7	6152.5	5766.9	5658.5	5775.2	*5797.1*	6405.8	6763.3
37.5°	6713.3	6759.1	6935.3	7016.6	6666.4	6189.0	5892.0	5893.0	*5903.4*	6469.4	6760.2
40°	7092.7	7141.7	7406.4	7618.0	7332.4	6723.7	6268.2	6139.0	*6127.5*	6625.7	6821.7
42.5°	7624.2	7668.0	7985.9	8255.9	8071.4	7408.5	6788.3	6518.4	*6494.4*	6932.2	7018.7
45°	8296.5	8334.0	8671.7	8960.4	8865.6	8190.2	7441.8	7040.6	*7036.4*	7442.9	7417.9
47.5°	9095.9	9125.1	9428.4	9707.7	9742.1	9089.7	8263.1	7846.2	*7778.5*	8143.3	8035.9
50°	9928.7	9961.0	10167.4	10467.6	10722.9	10293.5	9320.0	8833.3	*8742.6*	9067.8	8911.4
52.5°	10480.1	10522.8	10702.1	11082.5	11825.6	11613.0	10569.7	10029.8	*9892.2*	10188.2	10068.4
55°	10234.1	10330.0	10604.1	11213.8	12707.4	13628.8	12111.2	11425.4	*11270.1*	11516.1	11445.2
57.5°	9115.7	9247.1	9621.2	10562.4	12831.4	15404.8	14441.7	13069.1	*12959.6*	12888.8	12921.1
60°	7071.8	7197.9	7661.8	8888.5	11967.4	16701.4	17949.0	15095.3	*14936.8*	14266.6	14295.8
62.5°	5005.0	4941.4	5259.3	6156.7	9724.4	16853.6	21939.9	17805.2	*17284.0*	15721.7	15593.5
65°	3816.8	3802.2	3945.0	4230.6	5889.9	15032.7	24317.3	22359.9	*21545.9*	17433.1	17130.8
67.5°	3136.2	3110.1	3250.9	3666.7	3792.8	9698.4	24369.4	27644.2	*26844.8*	19563.5	18908.9
70°	2578.6	2549.4	2680.7	3217.5	3505.2	4918.5	20509.9	30738.7	*30696.0*	22260.9	20251.4
71°	*2311.8*	*2290.9*	*2448.3*	*3044.5*	*3443.7*	*4099.3*	*17708.2*	*30747.1*	*30875.3*	*23173.9*	*20172.2*
72.5°	1882.3	1889.6	2056.4	2709.9	3397.8	3619.8	13014.9	29313.9	*29584.9*	24044.2	19452.0
75°	1250.7	1257.0	1475.9	2084.5	3294.6	3541.6	7153.1	24597.7	*25095.9*	23523.1	17749.9
77.5°	840.1	838.0	987.0	1430.0	2870.4	3541.6	4194.1	18397.2	*18944.4*	18717.2	13684.0
80°	578.5	574.3	679.6	987.0	2173.1	3584.4	3242.5	12892.9	*13058.6*	10108.0	5561.6
82.5°	354.4	357.5	444.0	697.3	1479.0	3225.8	3061.2	7030.1	*6849.8*	2835.0	1389.4
85°	203.2	202.2	283.5	472.2	949.5	2722.4	2985.1	3025.7	*2775.6*	853.6	502.4
87.5°	73.0	78.2	152.2	261.6	544.1	1895.9	2532.7	1573.8	*1418.5*	385.6	227.2
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: P319539
CATALOG NUMBER: GLEON-SA5D-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5
2.5°	6907.1	6913.4	6906.1	6864.4	6829.0	6771.7	6739.3	6694.5	6681.0	6674.7	6691.4
5°	6933.2	6935.3	6873.8	6764.4	6641.4	6496.5	6392.3	6264.1	6203.6	6177.6	6194.2
7.5°	6957.2	6947.8	6813.3	6603.8	6376.6	6124.4	5900.3	5695.0	5575.1	5526.1	5530.3
10°	6960.3	6920.7	6704.9	6380.8	6028.5	5658.5	5314.6	4997.7	4797.6	4667.3	4706.9
12.5°	6928.0	6861.3	6545.5	6092.1	5603.3	5098.8	4633.9	4158.7	3873.1	3740.7	3744.9
15°	6903.0	6782.1	6349.5	5752.3	5095.7	4427.6	3792.8	3234.2	2929.8	2794.3	2730.8
17.5°	6882.1	6696.6	6122.3	5369.8	4496.4	3649.0	2886.1	2387.8	2221.1	2181.5	2164.8
20°	6852.9	6605.9	5869.0	4926.8	3813.7	2777.7	2107.5	1861.5	1862.5	1908.4	1914.7
22.5°	6812.3	6502.7	5599.1	4429.7	3081.0	2023.1	1652.0	1581.1	1653.0	1740.6	1756.2
25°	6751.8	6380.8	5298.9	3880.4	2349.3	1555.1	1411.2	1408.1	1495.7	1587.4	1600.9
27.5°	6666.4	6221.3	4965.4	3290.5	1731.2	1321.6	1264.3	1286.2	1350.8	1417.5	1422.7
30°	6551.7	6035.8	4597.5	2668.2	1357.0	1176.7	1170.5	1190.3	1229.9	1276.8	1281.0
32.5°	6425.6	5847.2	4204.5	2065.8	1162.1	1098.6	1104.8	1114.2	1133.0	1151.7	1155.9
35°	6311.0	5654.3	3802.2	1569.7	1069.4	1047.5	1043.3	1041.2	1043.3	1037.1	1038.1
37.5°	6237.0	5494.9	3383.2	1249.7	1016.2	1002.7	990.2	974.5	956.8	946.4	948.5
40°	6209.9	5376.0	2959.0	1079.8	972.4	963.1	939.1	905.7	884.9	878.6	878.6
42.5°	6282.8	5314.6	2549.4	994.3	936.0	920.3	880.7	842.2	826.5	825.5	824.4
45°	6505.9	5339.6	2159.6	947.4	902.6	872.4	820.3	788.0	777.5	779.6	778.6
47.5°	6906.1	5497.0	1826.1	916.2	869.3	829.6	771.3	745.2	732.7	732.7	733.8
50°	7586.7	5864.9	1560.3	890.1	841.1	790.0	735.8	703.5	686.9	685.8	685.8
52.5°	8577.9	6523.6	1394.6	868.2	809.8	754.6	700.4	659.8	640.0	635.8	633.7
55°	9820.3	7467.9	1348.7	853.6	768.2	716.0	657.7	617.0	595.1	585.8	584.7
57.5°	11209.7	8616.5	1439.4	835.9	725.4	670.2	610.8	572.2	549.3	537.8	536.8
60°	12615.7	9870.3	1809.4	810.9	690.0	620.2	562.8	527.4	504.5	492.0	489.9
62.5°	14023.8	11191.9	2565.0	808.8	665.0	572.2	513.8	483.6	461.7	448.2	445.1
65°	15612.2	12638.6	3423.9	864.0	656.6	528.4	463.8	439.8	421.1	408.6	407.5
67.5°	17436.2	14271.9	3341.5	977.7	684.8	488.8	416.9	398.1	384.6	374.2	373.1
70°	18291.9	14016.5	2077.3	1057.9	724.4	450.3	372.1	358.5	348.1	340.8	337.7
71°	*17933.4*	*13308.8*	*1741.6*	*1048.5*	*720.2*	*433.6*	*354.4*	*344.0*	*333.5*	*327.3*	*324.1*
72.5°	16955.7	12137.3	1452.9	975.6	673.3	403.4	331.4	321.0	311.6	304.3	302.3
75°	15215.1	10839.6	1163.2	779.6	536.8	340.8	290.8	279.3	272.0	267.9	263.7
77.5°	11184.6	7735.8	899.5	616.0	395.0	278.3	248.1	239.7	232.4	226.2	223.0
80°	4284.8	2996.5	605.6	459.6	289.8	219.9	200.1	195.9	188.7	184.5	184.5
82.5°	1153.8	895.3	323.1	278.3	193.9	160.5	153.2	151.1	144.9	136.5	137.6
85°	466.9	395.0	181.4	153.2	118.8	94.8	103.2	104.2	96.9	86.5	87.6
87.5°	205.3	167.8	101.1	67.7	52.1	36.5	46.9	46.9	42.7	35.4	32.3
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

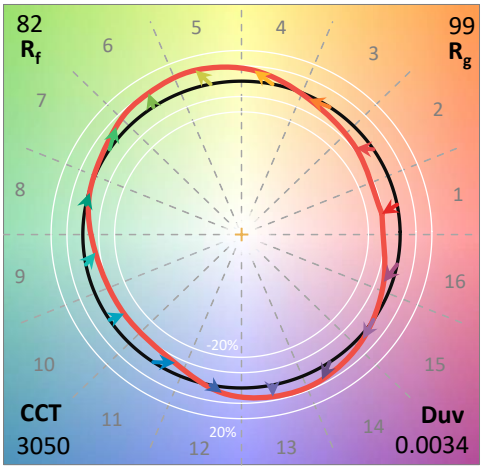
Test Information

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

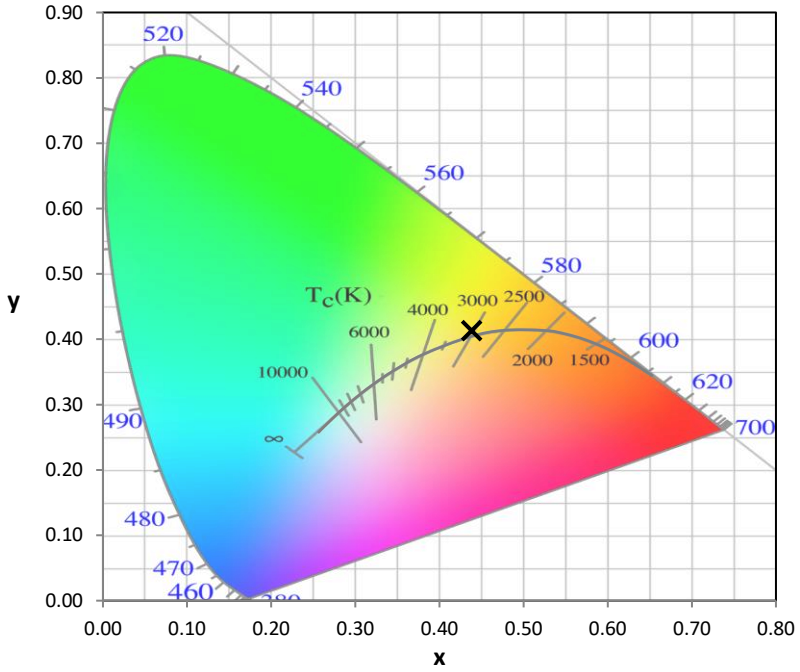
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

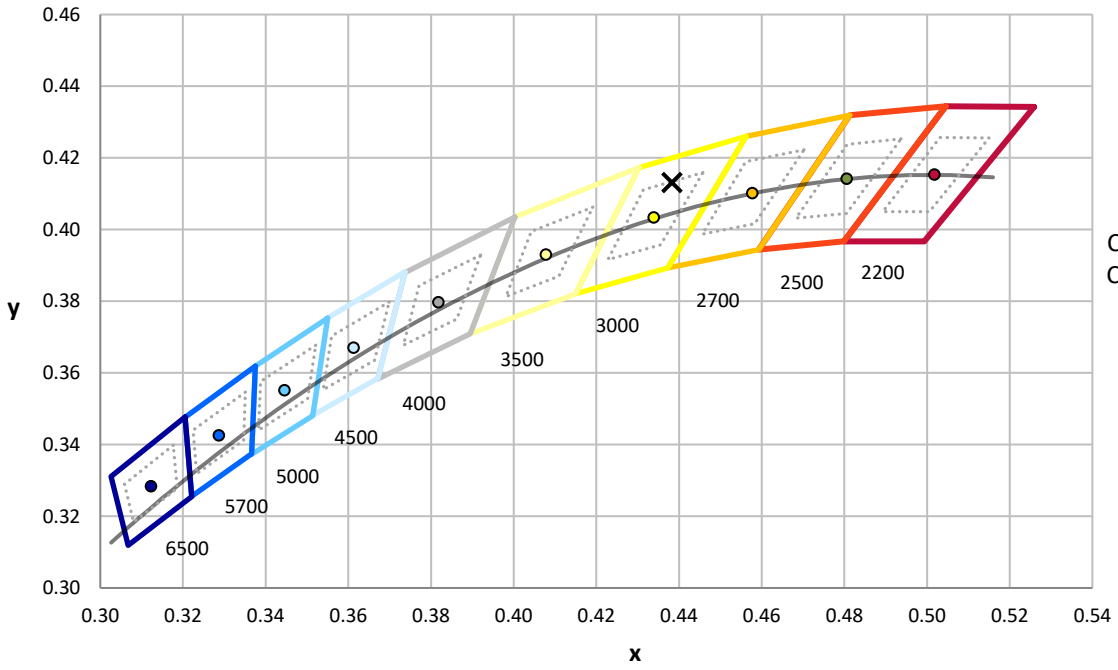
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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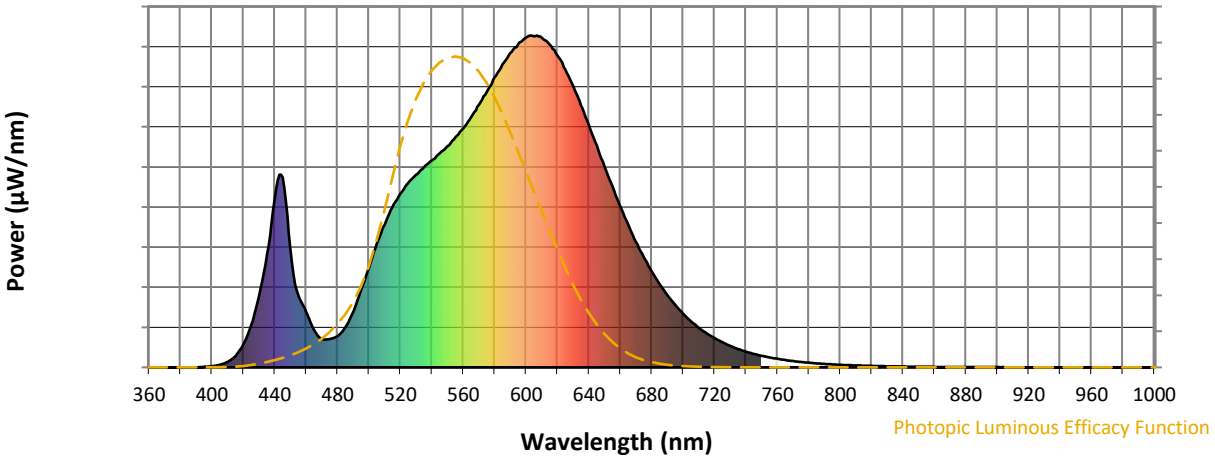
Photopic Flux vs. Wavelength



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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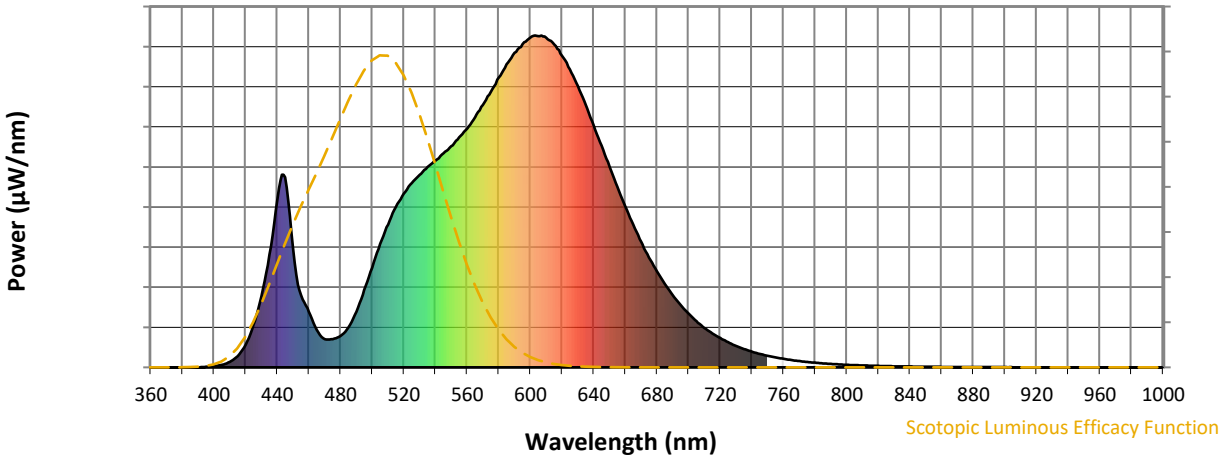
Scotopic Flux vs. Wavelength



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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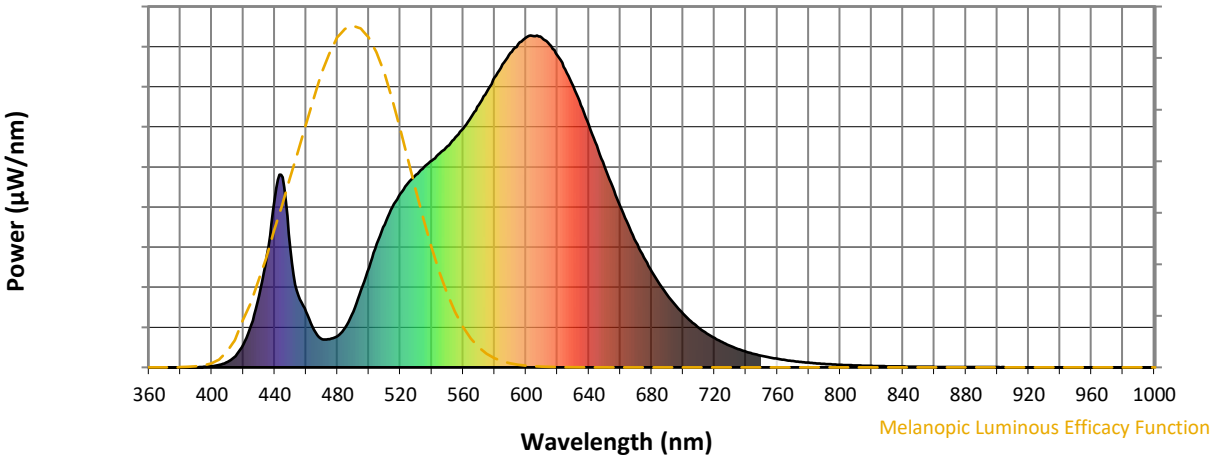
Melanopic Flux vs. Wavelength



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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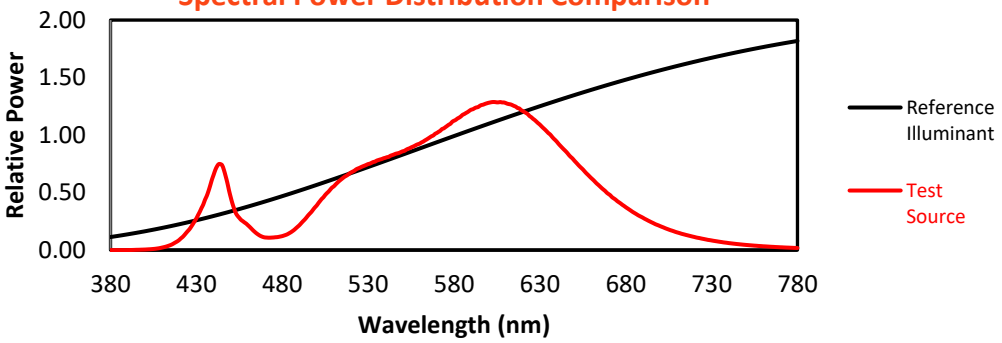
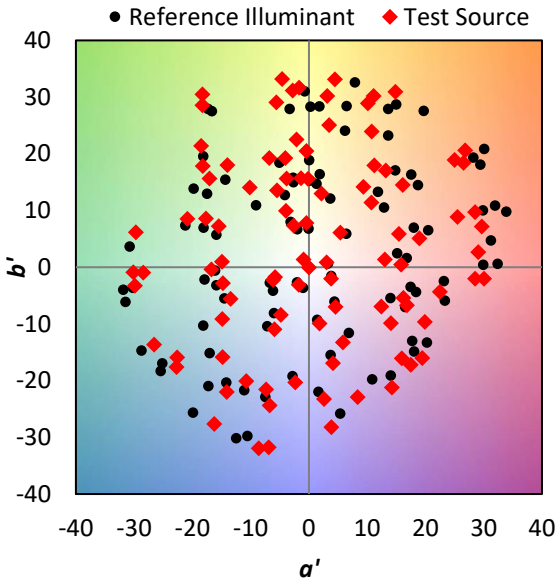
Summary

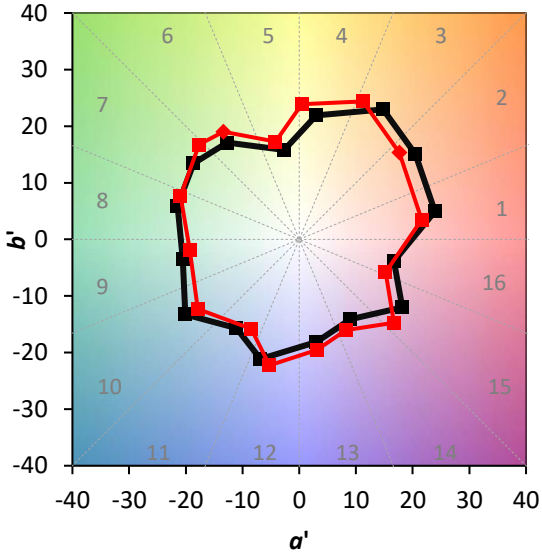
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

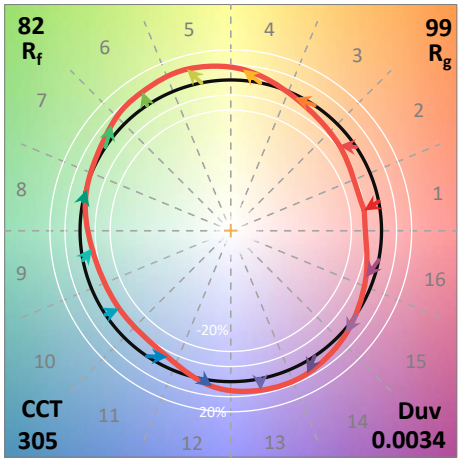
Spectral Power Distribution Comparison

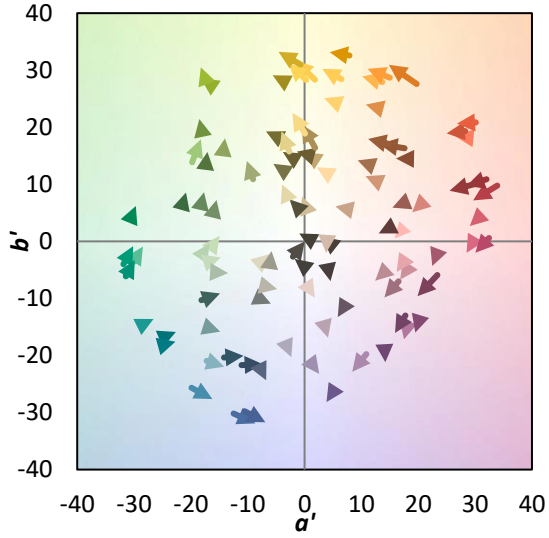


Color Vector Graphics









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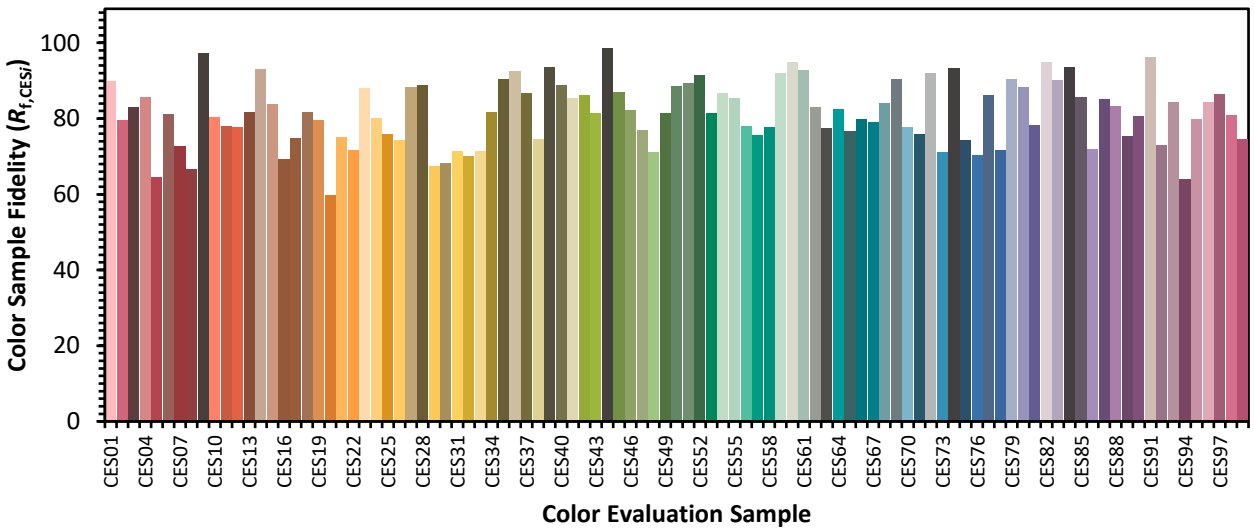
Individual Sample Fidelity Index ($R_{f,i}$)

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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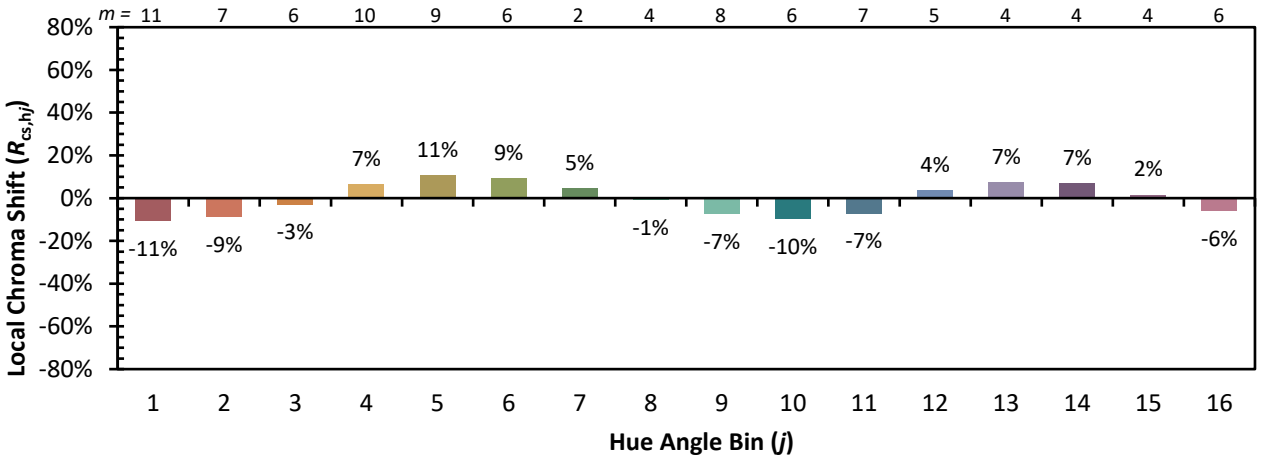
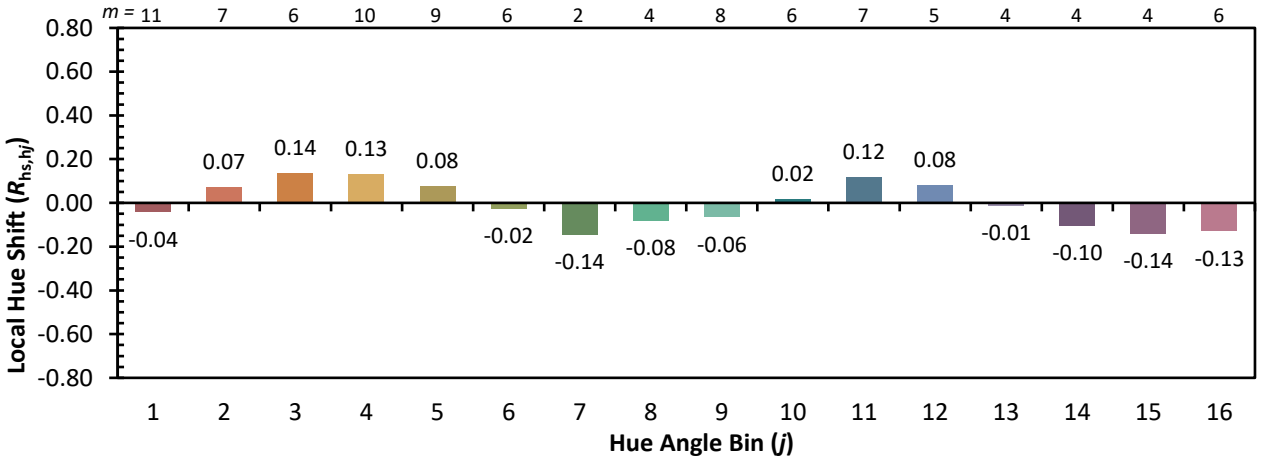
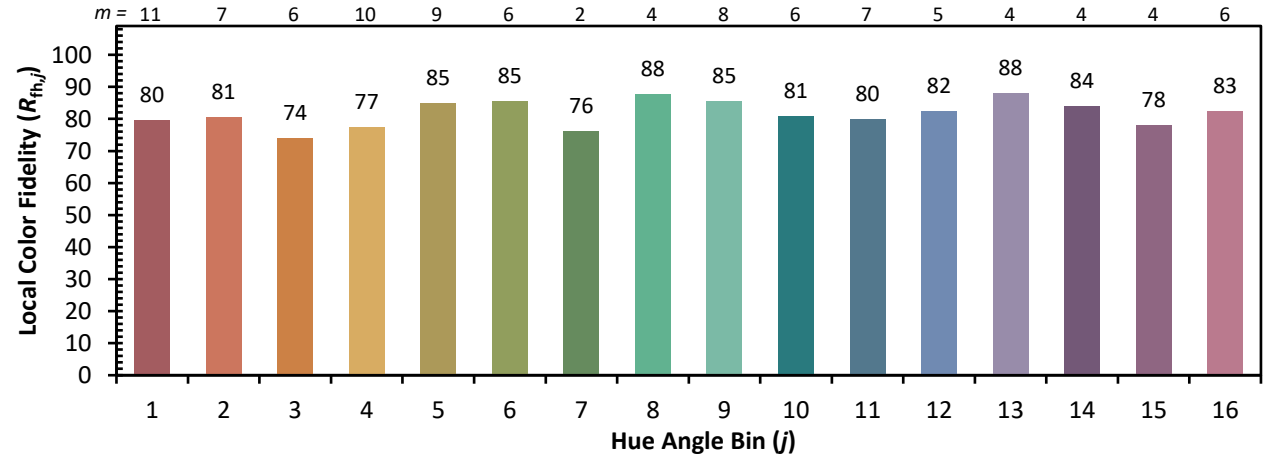
Color Rendition by Hue-Angle Bin







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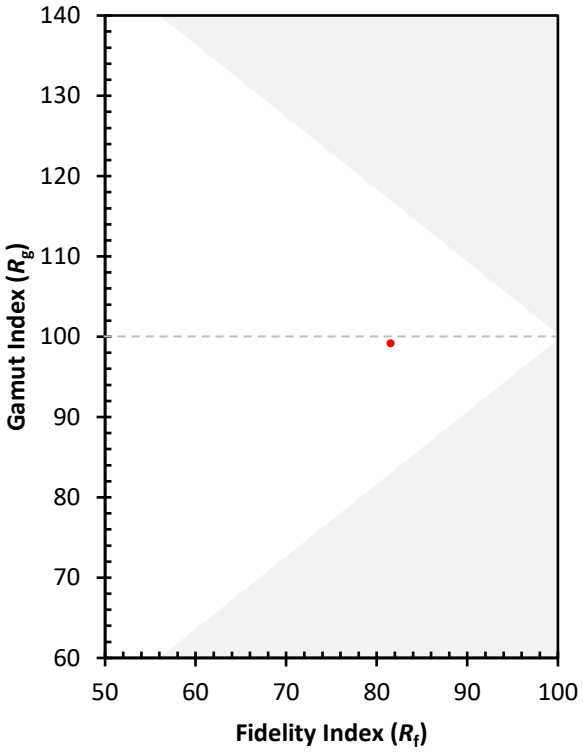
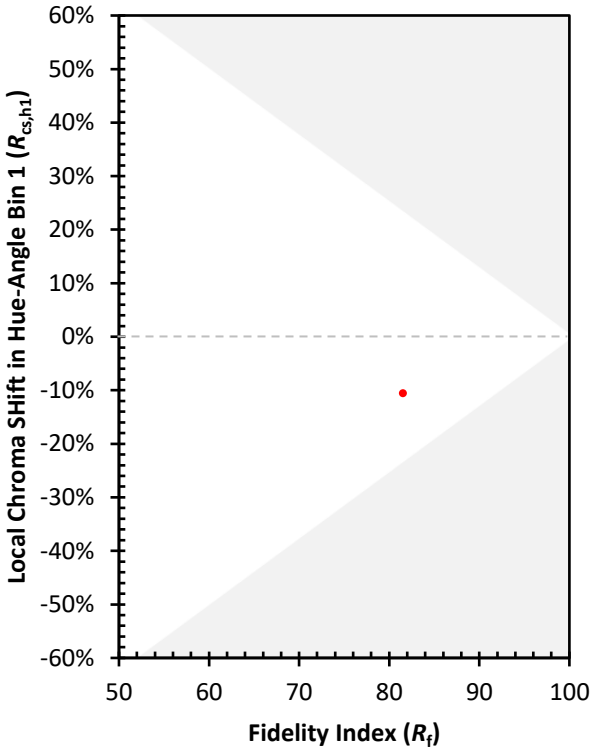
Measure Comparisons





(END OF REPORT)