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: P318577

Luminaire Tested: **GLEON-SA3D-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:	P318577
	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-SA3D-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 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:	18827 lumens
Efficiency:	N/A
Efficacy:	98.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	191
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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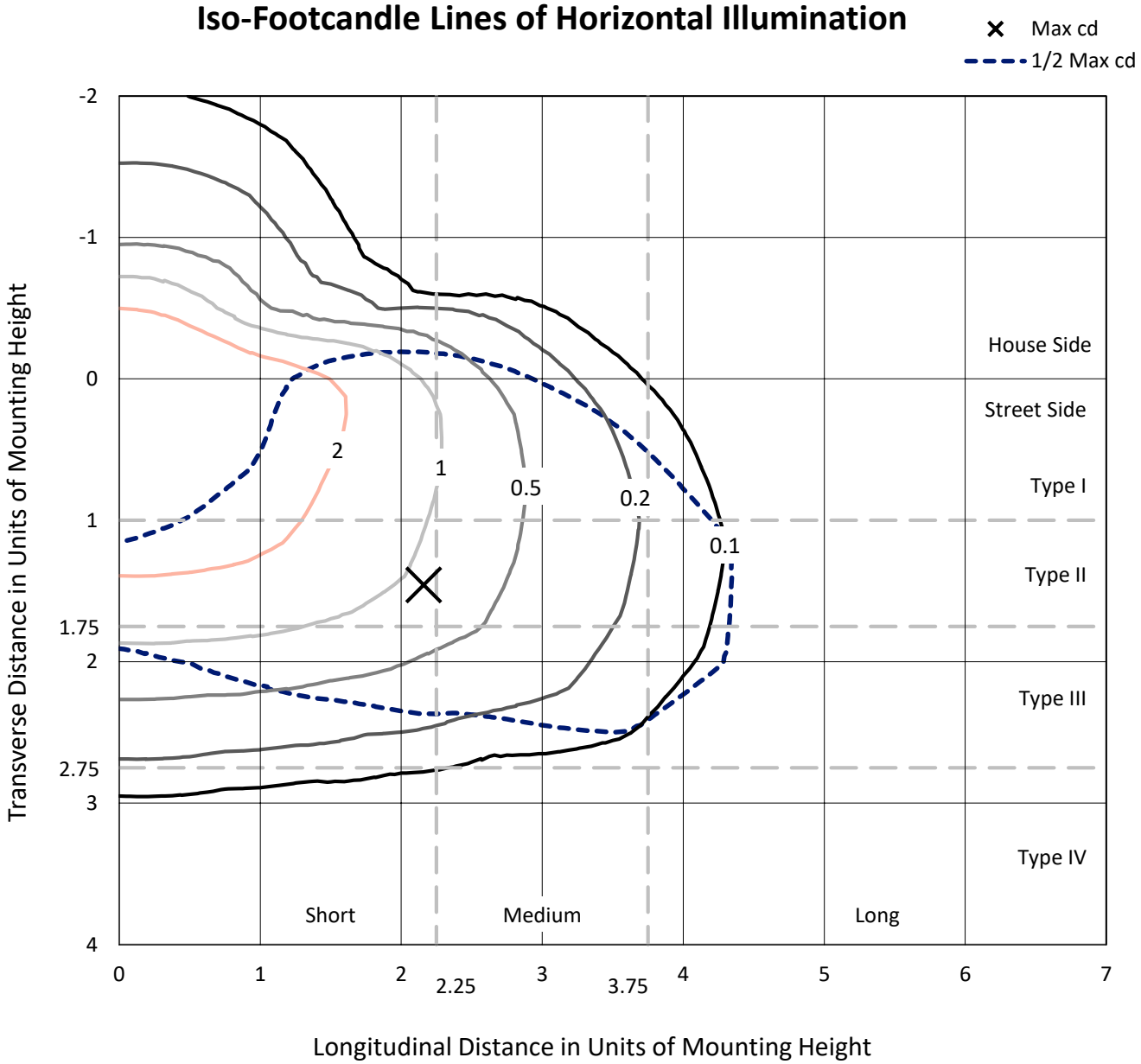
REPORT NUMBER: P318577
CATALOG NUMBER: GLEON-SA3D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Short - N/A

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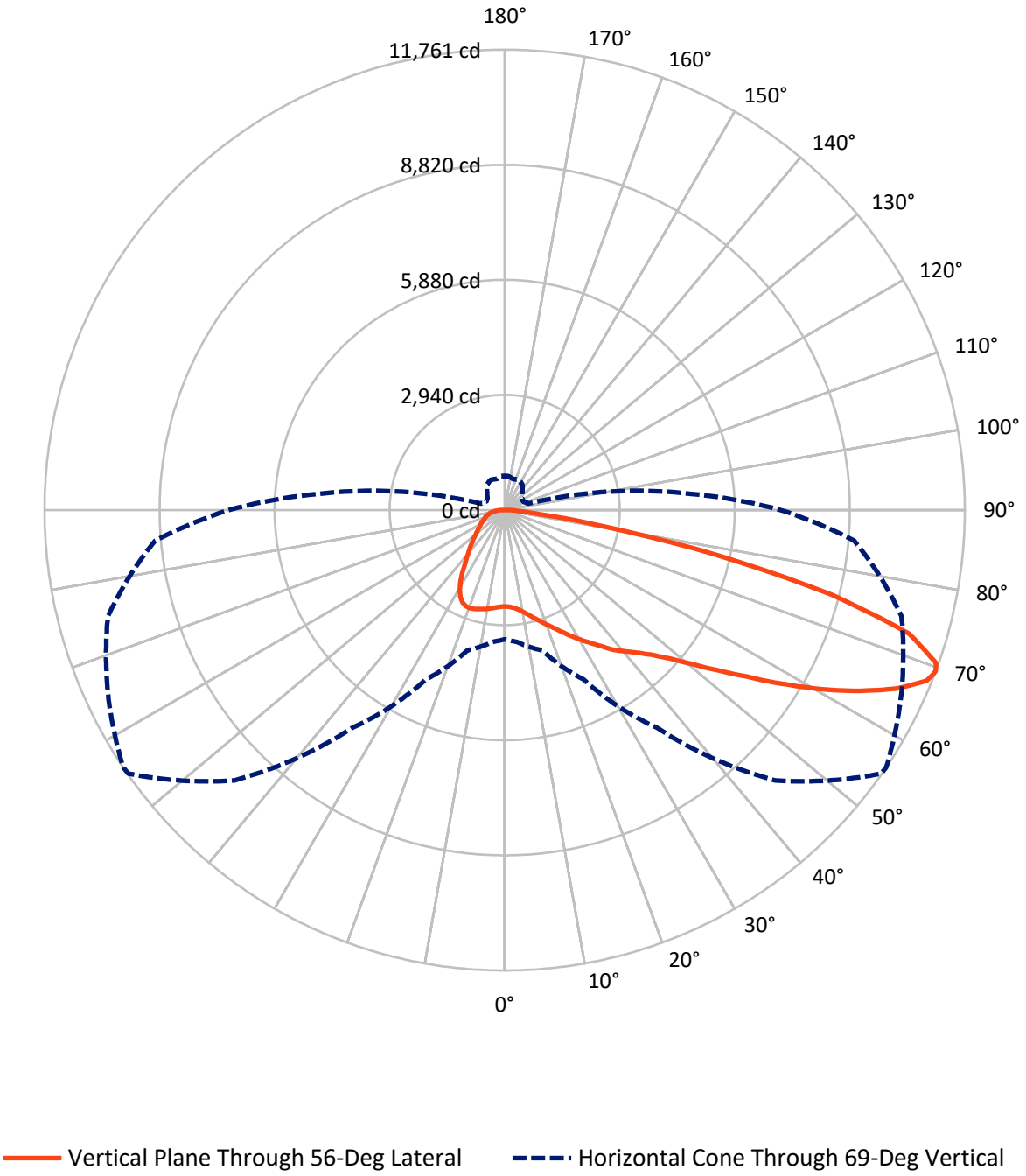
Luminous Intensity Polar Plot



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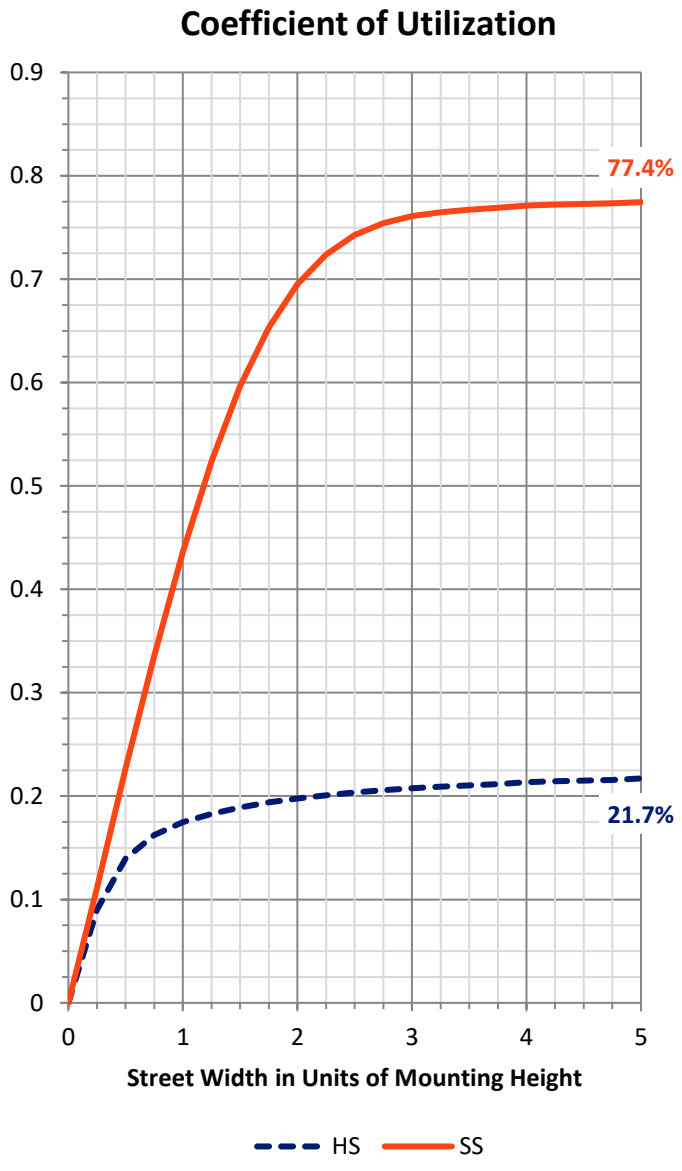
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4192.7	0.0	4192.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14634.3	0.0	14634.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	18827.0	0.0	18827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.3
10°-20°	777.4	4.1
20°-30°	1357.0	7.2
30°-40°	1949.2	10.4
40°-50°	2697.6	14.3
50°-60°	3952.4	21.0
60°-70°	4818.7	25.6
70°-80°	2664.1	14.2
80°-90°	369.0	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°	18827.0	100.0
0°-180°	18827.0	100.0



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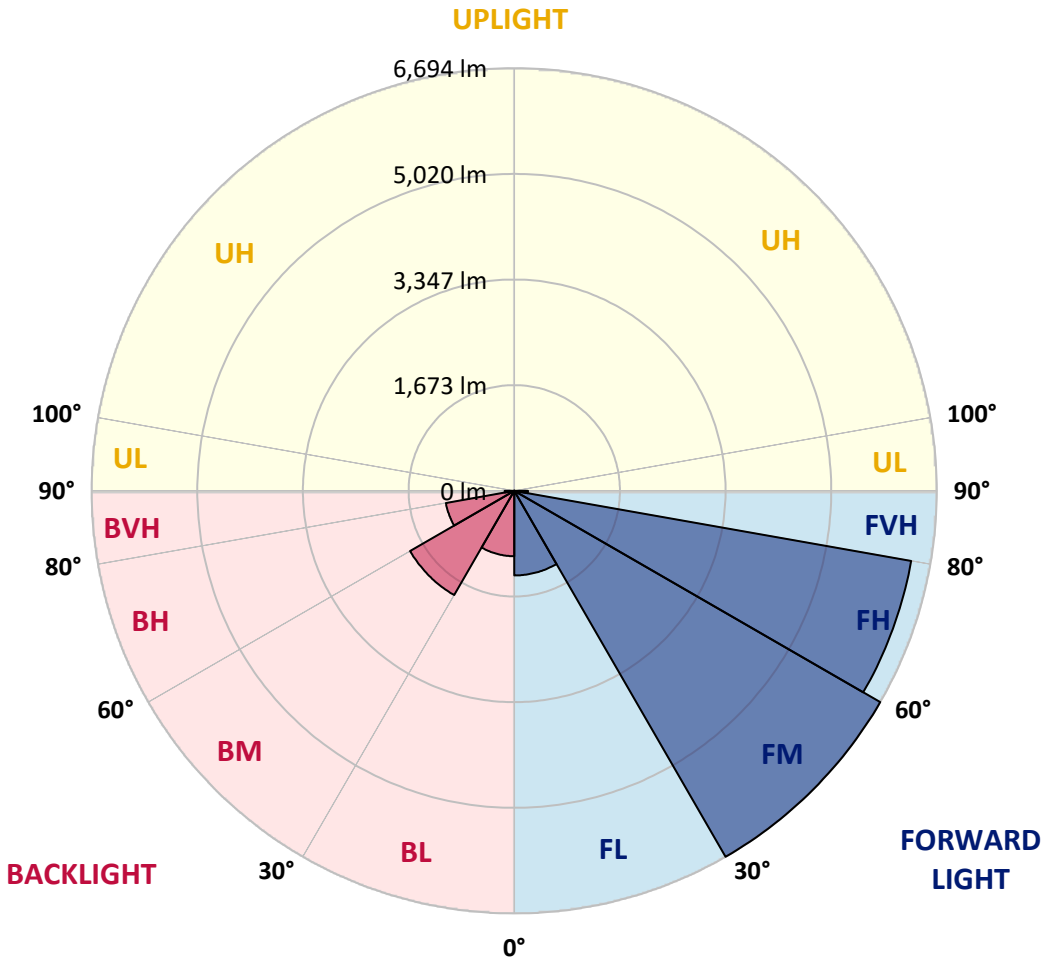
CATALOG NUMBER: GLEON-SA3D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1339.9	7.1			
FM	(30°-60°)	6693.7	35.6			
FH	(60°-80°)	6383.3	33.9			G3/7500
FVH	(80°-90°)	217.3	1.2			G2/225
BL	(0°-30°)	1036.1	5.5	B3/2500		
BM	(30°-60°)	1905.5	10.1	B2/2500		
BH	(60°-80°)	1099.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	151.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Short



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REPORT NUMBER: P318577
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	*2461.3*	2461.3	2461.3	2461.3
2.5°	2476.9	2479.5	2477.6	2482.7	2476.9	2480.8	2477.6	*2477.6*	2475.6	2469.8	2463.3
5°	2515.8	2521.0	2517.8	2523.0	2515.8	2517.1	2511.3	*2511.3*	2505.5	2493.1	2480.2
7.5°	2576.8	2582.6	2580.0	2585.2	2575.5	2575.5	2567.7	*2567.1*	2555.4	2535.3	2520.4
10°	2649.4	2657.2	2654.6	2662.4	2654.6	2657.2	2649.4	*2649.4*	2633.9	2605.3	2586.5
12.5°	2755.2	2764.9	2757.7	2757.1	2753.9	2759.0	2752.6	*2751.3*	2737.0	2698.1	2672.1
15°	2896.5	2906.9	2892.0	2890.7	2872.5	2870.6	2870.6	*2868.7*	2859.6	2812.9	2770.1
17.5°	3059.3	3062.6	3049.6	3028.9	3005.5	2990.6	2988.6	*2993.8*	2993.8	2939.3	2871.2
20°	3218.9	3224.7	3214.3	3191.0	3161.2	3139.1	3123.5	*3133.9*	3133.3	3068.4	2971.8
22.5°	3392.7	3406.3	3390.8	3360.9	3325.9	3301.3	3274.0	*3283.1*	3283.7	3204.0	3070.4
25°	3617.8	3605.4	3595.7	3553.5	3503.6	3478.3	3453.0	*3462.1*	3459.5	3349.9	3172.2
27.5°	3816.9	3819.5	3806.5	3761.7	3704.0	3648.2	3646.9	*3652.8*	3643.1	3501.7	3268.2
30°	4048.4	4049.7	4031.5	3991.3	3928.4	3856.4	3839.6	*3849.3*	3828.5	3645.6	3369.4
32.5°	4278.7	4285.1	4265.0	4216.4	4165.8	4078.2	4044.5	*4051.0*	3999.1	3792.9	3473.8
35°	4480.4	4489.4	4483.0	4450.5	4395.4	4320.2	4280.0	*4276.1*	4211.9	3973.2	3611.9
37.5°	4686.0	4694.4	4687.3	4660.0	4638.0	4558.2	4536.8	*4536.8*	4425.2	4157.4	3787.7
40°	4897.4	4910.4	4901.9	4864.3	4845.5	4809.2	4758.0	*4745.6*	4625.0	4378.5	4074.4
42.5°	5093.9	5110.8	5144.5	5122.5	5084.2	5089.4	4986.3	*4979.8*	4891.6	4705.4	4434.3
45°	5372.8	5397.5	5454.5	5437.7	5429.9	5401.3	5278.8	*5272.9*	5239.2	5145.2	4881.2
47.5°	5677.0	5710.7	5813.8	5817.1	5900.7	5846.9	5680.2	*5660.1*	5667.9	5671.8	5426.6
50°	5957.2	5994.1	6163.4	6243.2	6440.4	6452.0	6185.5	*6167.3*	6197.8	6287.3	6062.2
52.5°	6180.9	6227.6	6439.1	6685.5	7023.4	7119.4	6807.5	*6793.8*	6816.5	6970.9	6780.9
55°	6345.0	6395.6	6625.9	7074.7	7614.3	7783.6	7523.5	*7510.5*	7524.8	7721.3	7562.4
57.5°	6383.3	6395.6	6729.6	7336.7	8113.0	8519.7	8399.7	*8373.8*	8303.7	8474.9	8425.0
60°	6203.6	6252.9	6644.0	7428.8	8498.9	9245.5	9315.5	*9283.1*	9086.6	9226.6	9186.4
62.5°	5839.1	5927.3	6324.3	7288.7	8650.1	9838.3	10213.8	*10174.9*	9836.3	9927.1	9733.8
65°	5243.7	5281.4	5698.4	6805.5	8458.1	10217.7	11014.8	*10995.3*	10569.2	10427.2	9835.0
67.5°	4178.8	4249.5	4603.6	5795.7	7672.7	10172.9	11634.2	*11632.2*	11047.8	10612.7	9476.3
69°	*3301.3*	*3374.5*	*3711.8*	*4774.2*	*6789.3*	*9763.7*	*11737.9*	*11760.6*	*11182.8*	*10499.8*	*8964.0*
70°	2631.9	2716.9	2948.4	4021.2	6005.2	9224.1	11651.7	*11692.5*	11156.8	10313.7	8491.2
72.5°	1120.1	1188.8	1353.6	2072.8	3659.9	6887.9	10653.5	*10807.9*	10555.6	9439.4	7017.6
75°	489.0	510.4	585.0	845.1	1624.7	3748.8	8345.9	*8631.3*	9025.6	7978.8	5227.5
77.5°	358.0	367.1	408.0	496.2	729.0	1415.8	5367.0	*5533.0*	6509.1	5806.1	3206.6
80°	276.9	283.4	315.2	364.5	476.1	572.7	2447.7	*2590.4*	3659.9	2982.2	1335.4
82.5°	220.5	225.1	247.1	268.5	328.8	347.0	812.7	*901.5*	1351.0	823.7	353.5
85°	205.0	210.1	217.9	195.9	210.8	203.7	351.5	*367.7*	408.0	323.6	147.9
87.5°	92.7	109.6	216.0	152.4	112.2	89.5	144.0	*150.5*	169.3	169.9	65.5
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: P318577
CATALOG NUMBER: GLEON-SA3D-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3	2461.3
2.5°	2467.2	2465.2	2468.5	2460.7	2470.4	2469.8	2466.5	2467.8	2474.3	2473.7	2474.3
5°	2482.1	2480.8	2484.7	2478.9	2490.5	2494.4	2495.1	2500.9	2508.0	2510.0	2510.0
7.5°	2519.7	2519.7	2521.7	2513.9	2521.7	2521.0	2517.8	2523.6	2530.7	2531.4	2530.7
10°	2584.6	2585.2	2582.0	2561.9	2555.4	2537.9	2521.7	2522.3	2531.4	2538.5	2540.5
12.5°	2666.3	2663.7	2649.4	2612.5	2585.2	2549.6	2532.7	2532.0	2541.1	2547.0	2548.9
15°	2759.7	2752.6	2715.6	2655.3	2607.3	2572.3	2545.0	2538.5	2533.3	2526.9	2527.5
17.5°	2847.9	2831.7	2770.1	2686.4	2635.8	2589.1	2536.6	2494.4	2465.2	2448.4	2443.2
20°	2937.4	2905.6	2816.8	2715.6	2651.4	2566.4	2465.2	2379.6	2326.4	2301.8	2297.3
22.5°	3019.1	2967.9	2860.2	2746.1	2639.1	2489.9	2331.0	2206.5	2132.5	2099.4	2102.0
25°	3098.9	3027.6	2905.6	2767.5	2576.8	2355.0	2144.2	1991.1	1905.5	1868.5	1867.3
27.5°	3168.9	3087.9	2954.9	2750.0	2460.7	2163.0	1923.0	1773.9	1702.5	1670.7	1665.5
30°	3249.4	3163.8	3020.4	2683.2	2290.8	1941.2	1707.1	1602.0	1551.4	1519.6	1513.8
32.5°	3347.3	3266.9	3074.3	2561.9	2073.5	1709.6	1538.4	1465.1	1419.1	1383.4	1376.9
35°	3490.0	3403.1	3087.9	2388.1	1834.8	1526.7	1414.5	1339.3	1277.0	1231.0	1226.5
37.5°	3669.0	3573.7	3056.7	2163.0	1603.3	1408.1	1311.4	1218.7	1137.6	1072.7	1062.4
40°	3927.1	3783.1	2970.5	1903.6	1432.7	1316.6	1210.9	1105.2	1004.6	928.8	913.8
42.5°	4237.1	4029.0	2838.2	1645.4	1307.5	1223.9	1111.0	980.0	884.0	830.2	822.4
45°	4631.5	4284.5	2654.6	1419.7	1184.3	1131.1	1003.3	882.7	823.0	783.5	777.0
47.5°	5081.6	4571.2	2462.0	1236.2	1079.9	1044.2	917.1	839.3	791.9	760.8	754.9
50°	5634.8	4894.8	2257.7	1085.7	974.8	939.8	876.2	815.3	777.6	753.6	747.8
52.5°	6258.8	5260.0	2110.5	967.0	887.9	862.6	854.8	802.3	771.8	753.6	747.8
55°	6930.7	5631.6	1951.6	867.1	812.7	819.8	840.6	803.6	782.8	760.8	752.3
57.5°	7603.3	6015.5	1774.5	782.8	753.0	788.0	830.8	806.2	788.7	767.3	759.5
60°	8135.1	6258.8	1500.2	712.1	705.7	753.0	807.5	786.7	764.0	764.7	763.4
62.5°	8383.5	6245.8	1197.3	649.2	658.3	705.7	769.9	756.2	737.4	762.7	764.7
65°	8244.1	5934.5	932.0	592.2	607.7	656.4	730.9	741.3	747.8	796.5	802.9
67.5°	7659.0	5328.7	721.9	542.2	561.7	622.6	734.8	807.5	815.9	867.1	866.5
69°	*7053.9*	*4760.5*	*627.2*	*516.3*	*539.0*	*631.1*	*785.4*	*849.6*	*817.9*	*872.3*	*864.6*
70°	6546.7	4311.1	576.6	498.8	528.6	646.0	819.2	849.0	808.1	854.8	841.9
72.5°	5042.0	3101.5	489.0	466.3	493.6	618.1	828.9	830.2	785.4	794.5	772.5
75°	3458.2	1960.0	426.8	422.2	440.4	557.1	797.7	793.2	726.4	713.4	695.3
77.5°	1906.8	995.6	362.6	380.1	392.4	493.6	725.1	718.6	663.5	636.3	629.8
80°	735.5	435.8	306.1	337.9	345.7	427.4	635.6	629.8	583.7	548.7	539.0
82.5°	277.6	228.3	252.9	292.5	289.9	352.8	538.3	535.1	490.3	439.1	423.5
85°	128.4	136.8	200.4	241.3	222.5	261.4	430.7	436.5	382.0	321.0	321.0
87.5°	54.5	76.5	142.0	182.2	149.8	176.4	315.9	301.6	276.9	192.0	180.3
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

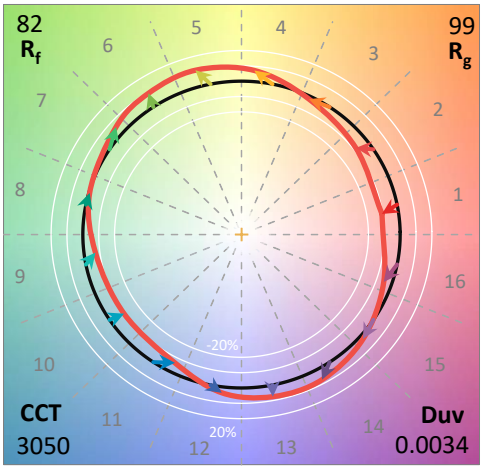
Test Information

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

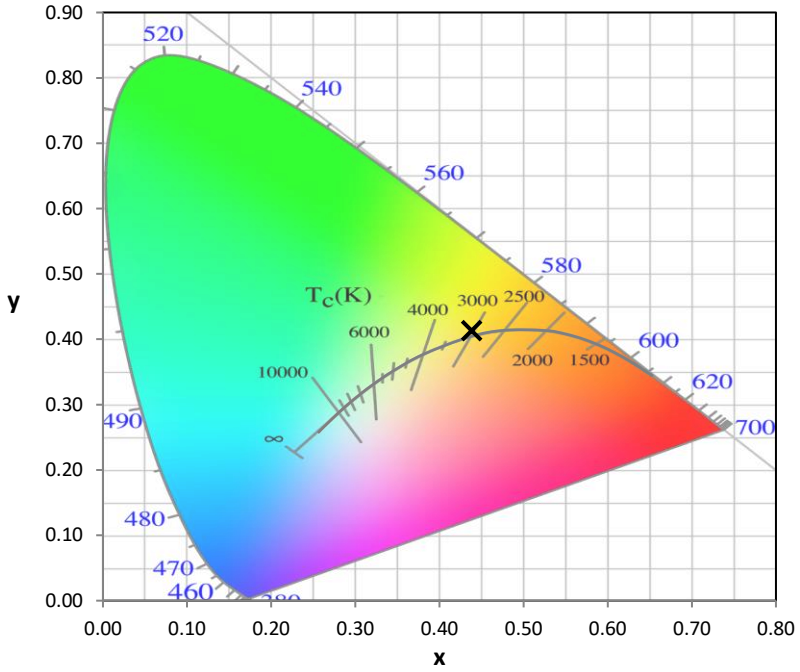
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

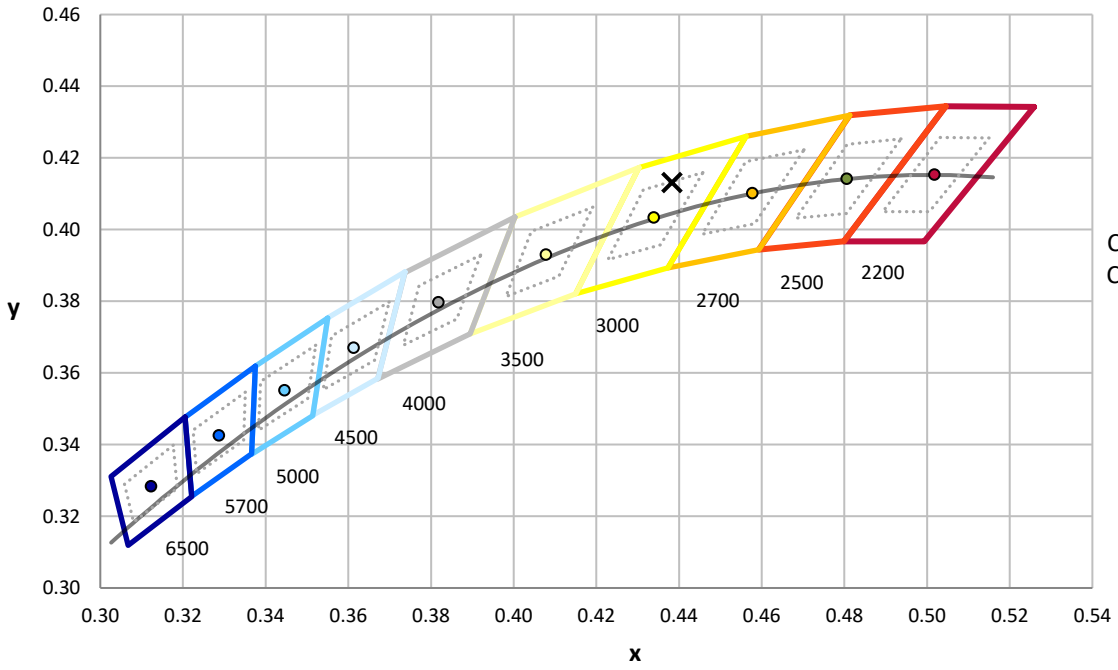
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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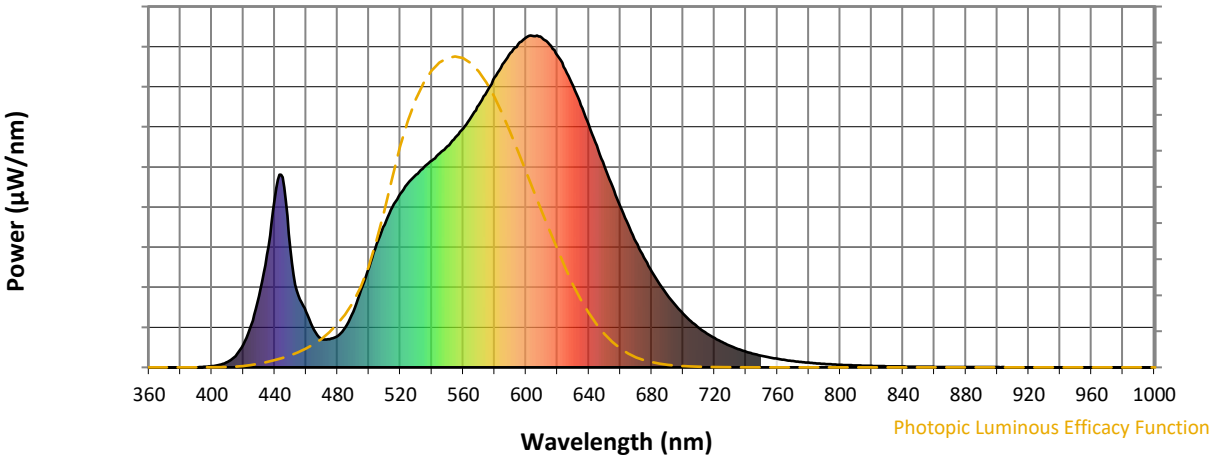
Photopic Flux vs. Wavelength



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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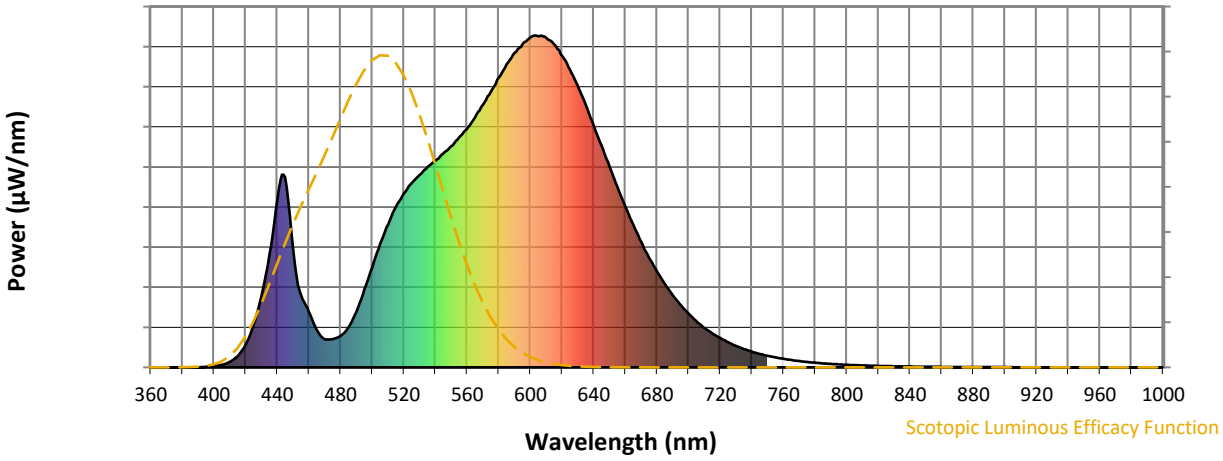
Scotopic Flux vs. Wavelength



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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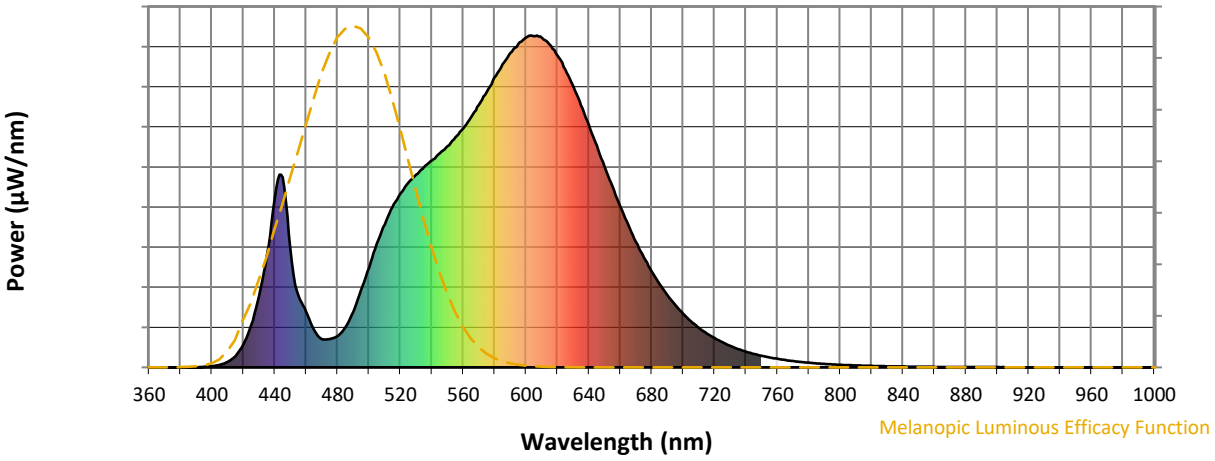
Melanopic Flux vs. Wavelength



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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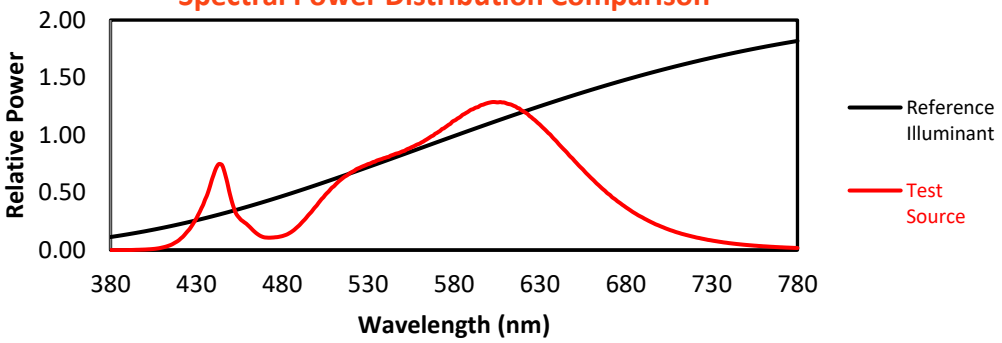
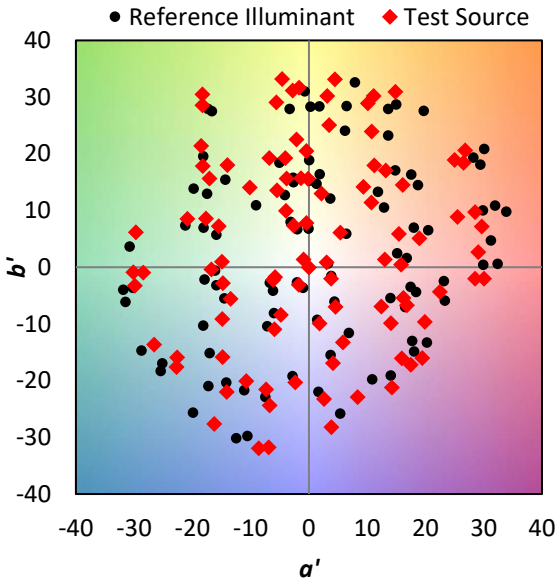
Summary

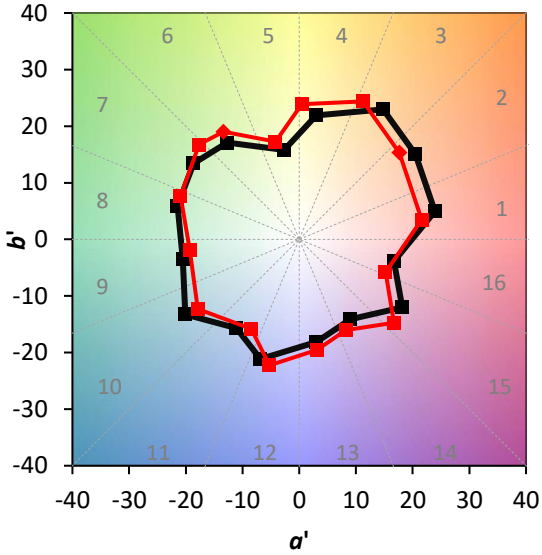
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

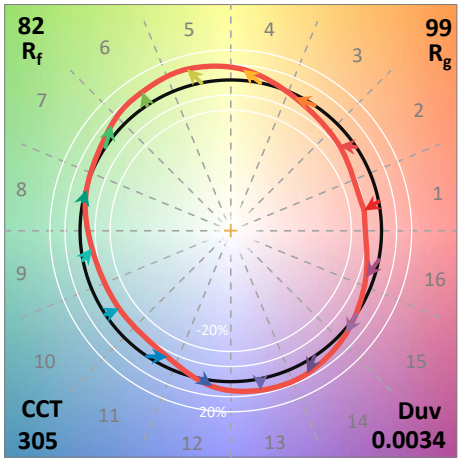
Spectral Power Distribution Comparison

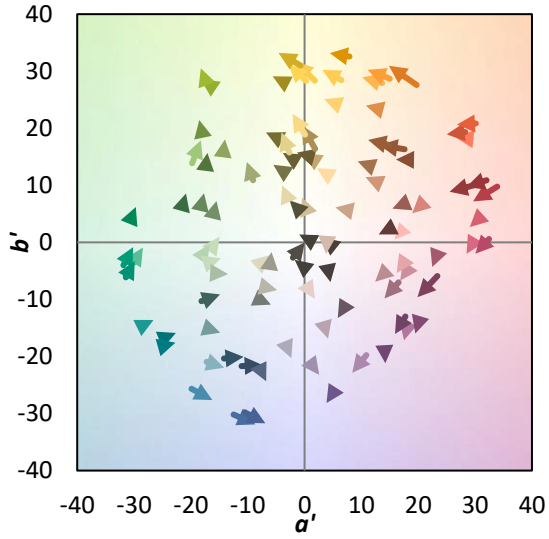


Color Vector Graphics









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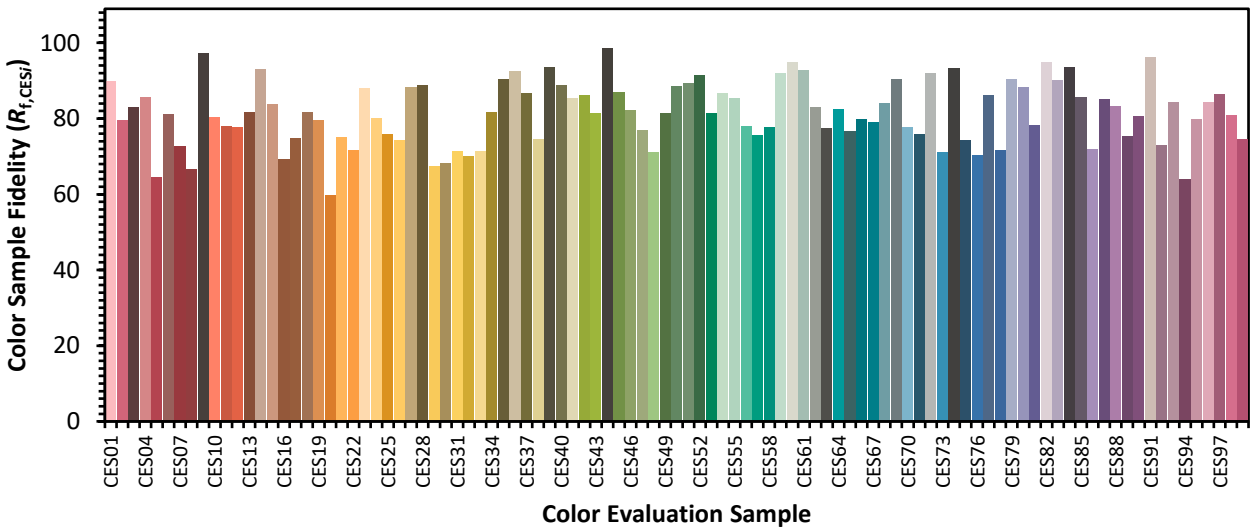
Individual Sample Fidelity Index ($R_{f,i}$)

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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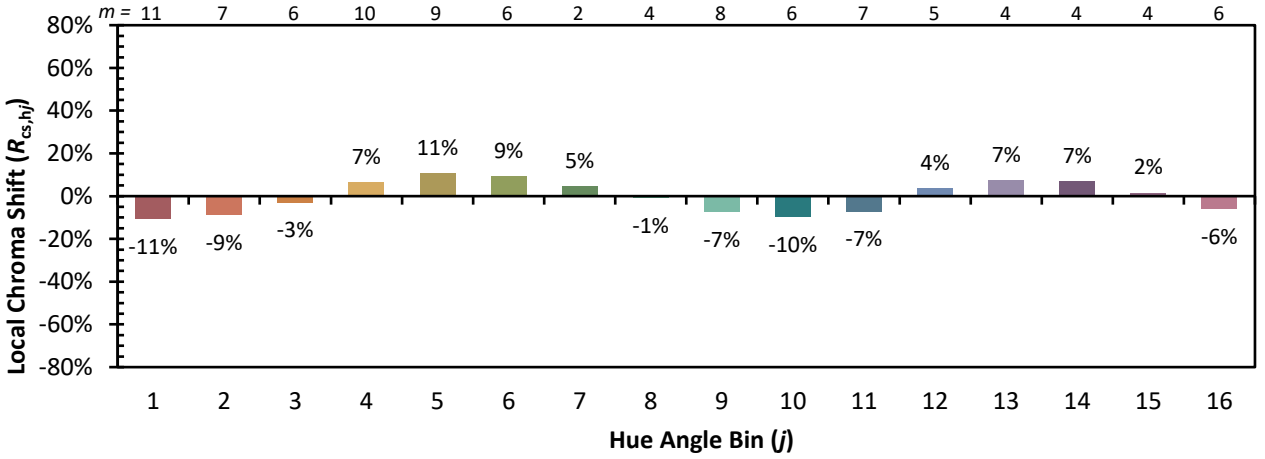
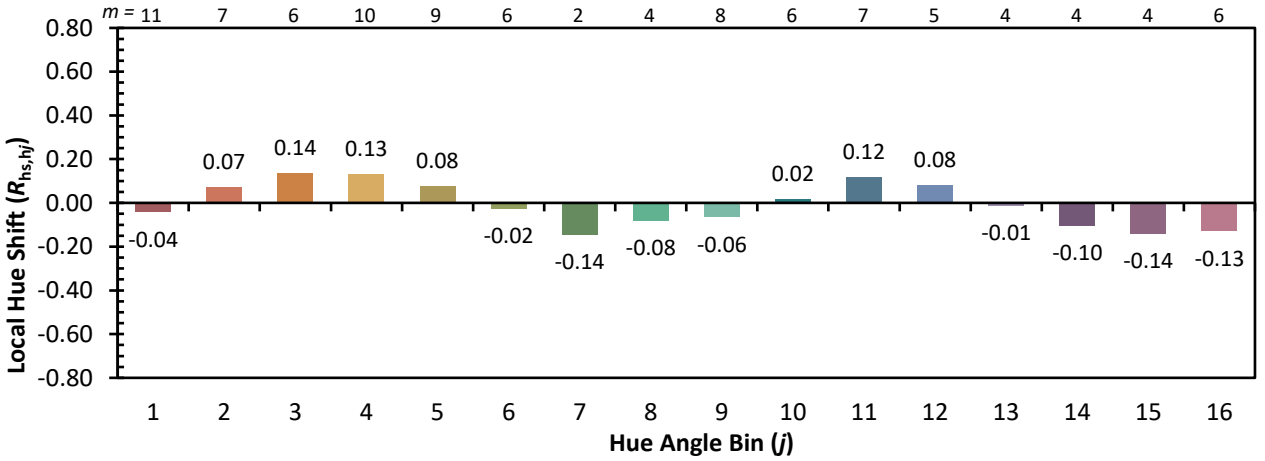
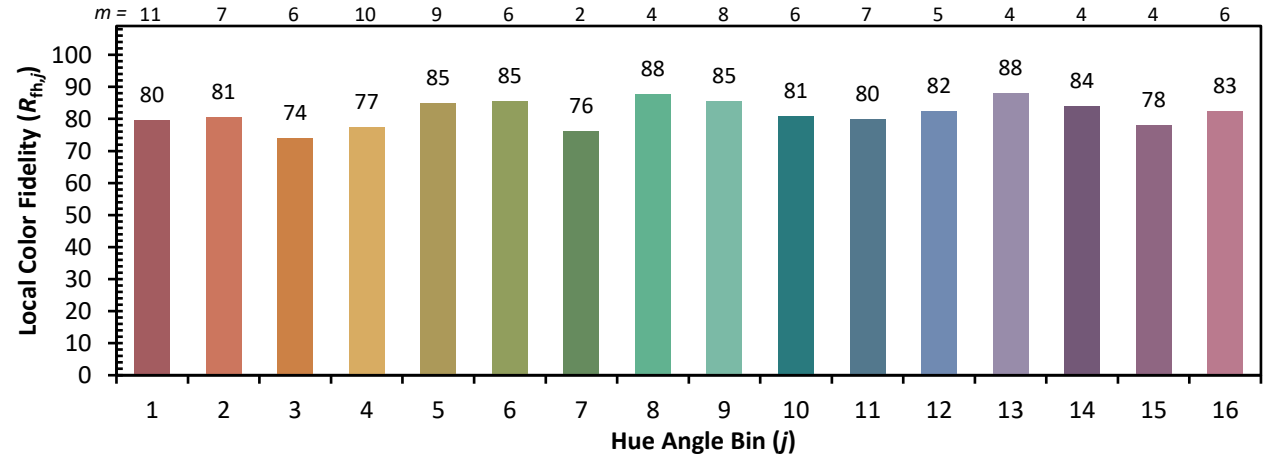
Color Rendition by Hue-Angle Bin







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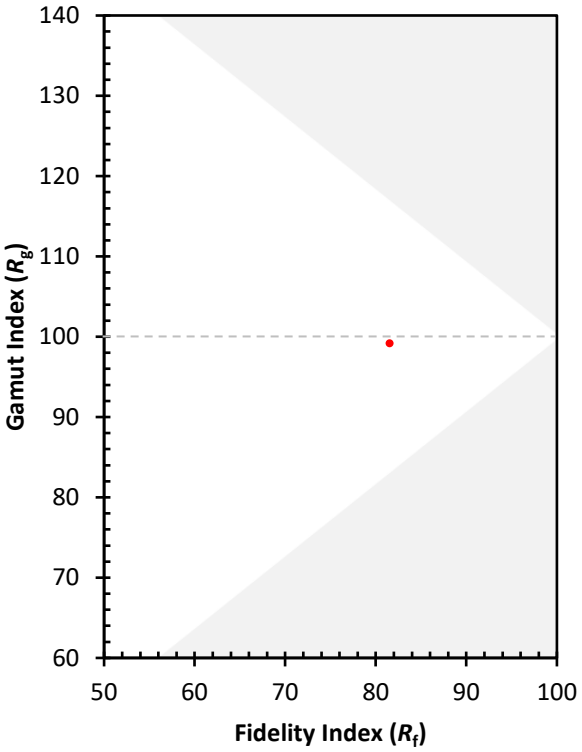
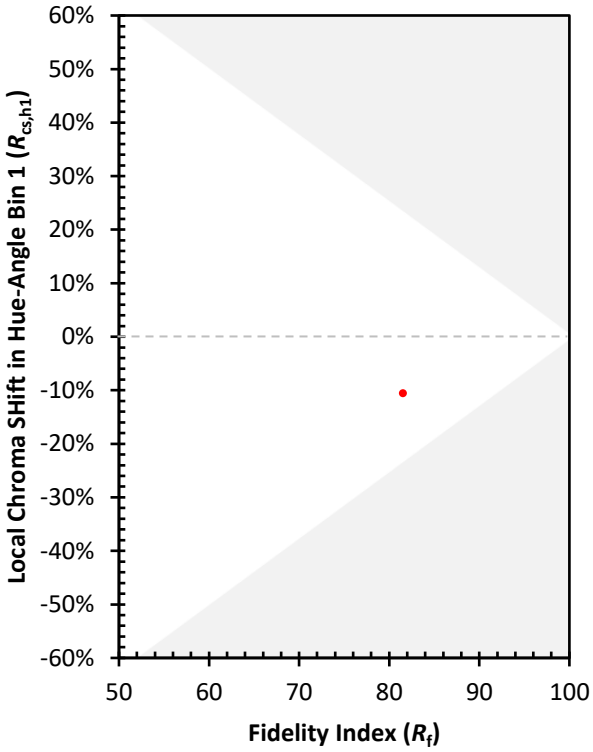
Measure Comparisons





(END OF REPORT)