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: P324008

Luminaire Tested: **GLEON-SA4C-830-U-SL4-HSS**

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:	P324008
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4C-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18402 lumens
Efficiency:	N/A
Efficacy:	81.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	225
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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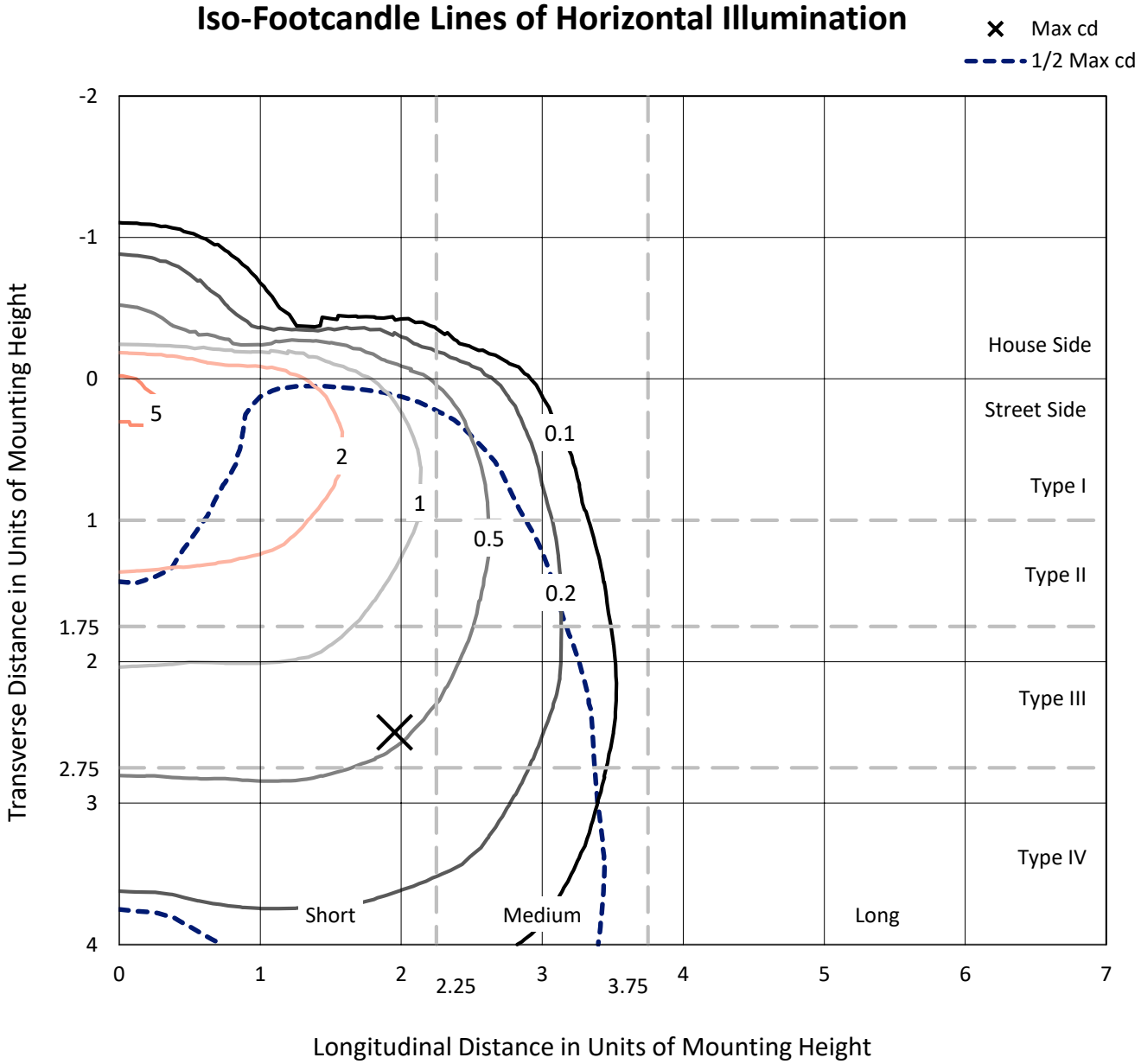
Scaled Data Report

REPORT NUMBER: P324008
CATALOG NUMBER: GLEON-SA4C-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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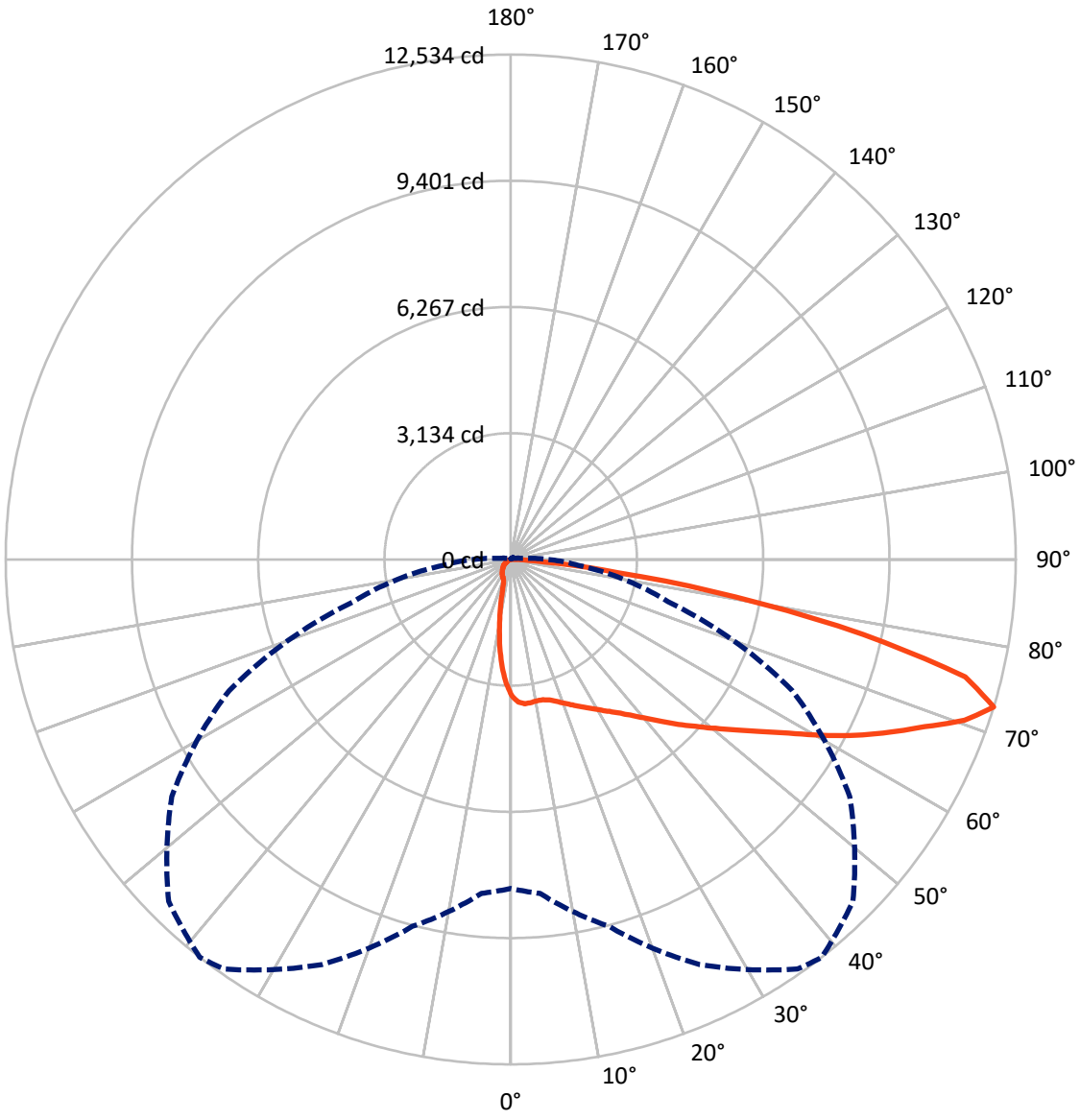
Luminous Intensity Polar Plot



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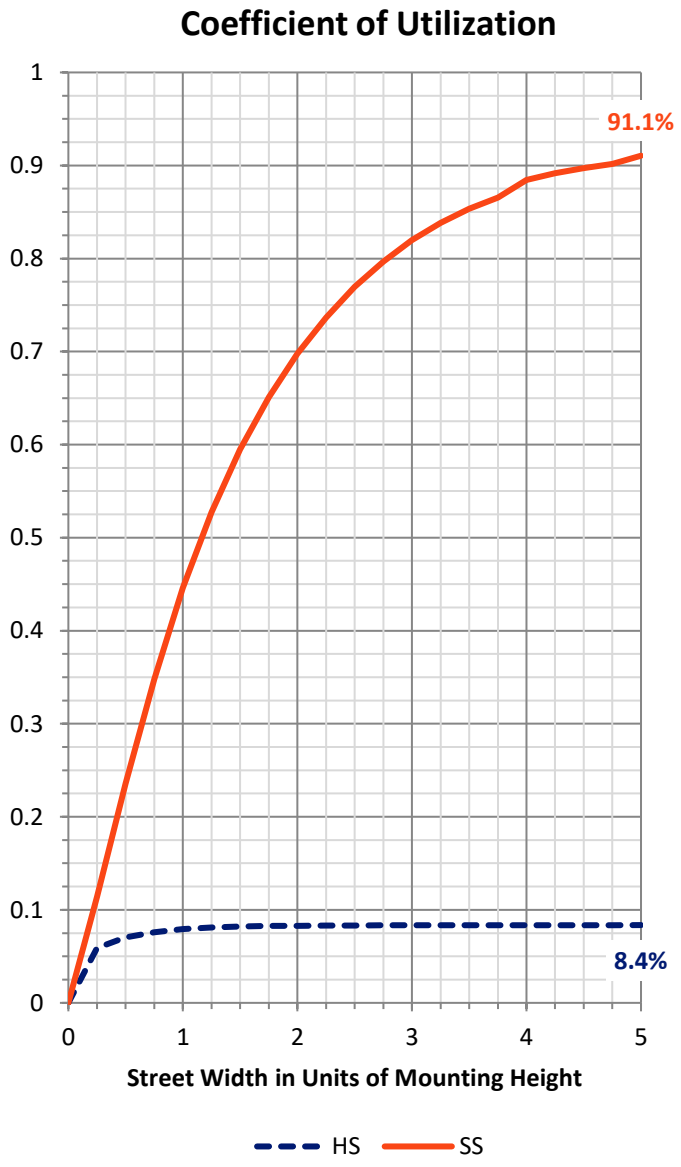
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.6	0.0	1548.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16853.4	0.0	16853.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	18402.0	0.0	18402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	1.6
10°-20°	705.2	3.8
20°-30°	1121.6	6.1
30°-40°	1686.1	9.2
40°-50°	2572.3	14.0
50°-60°	3635.6	19.8
60°-70°	4560.2	24.8
70°-80°	3409.8	18.5
80°-90°	422.8	2.3
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°	18402.0	100.0
0°-180°	18402.0	100.0



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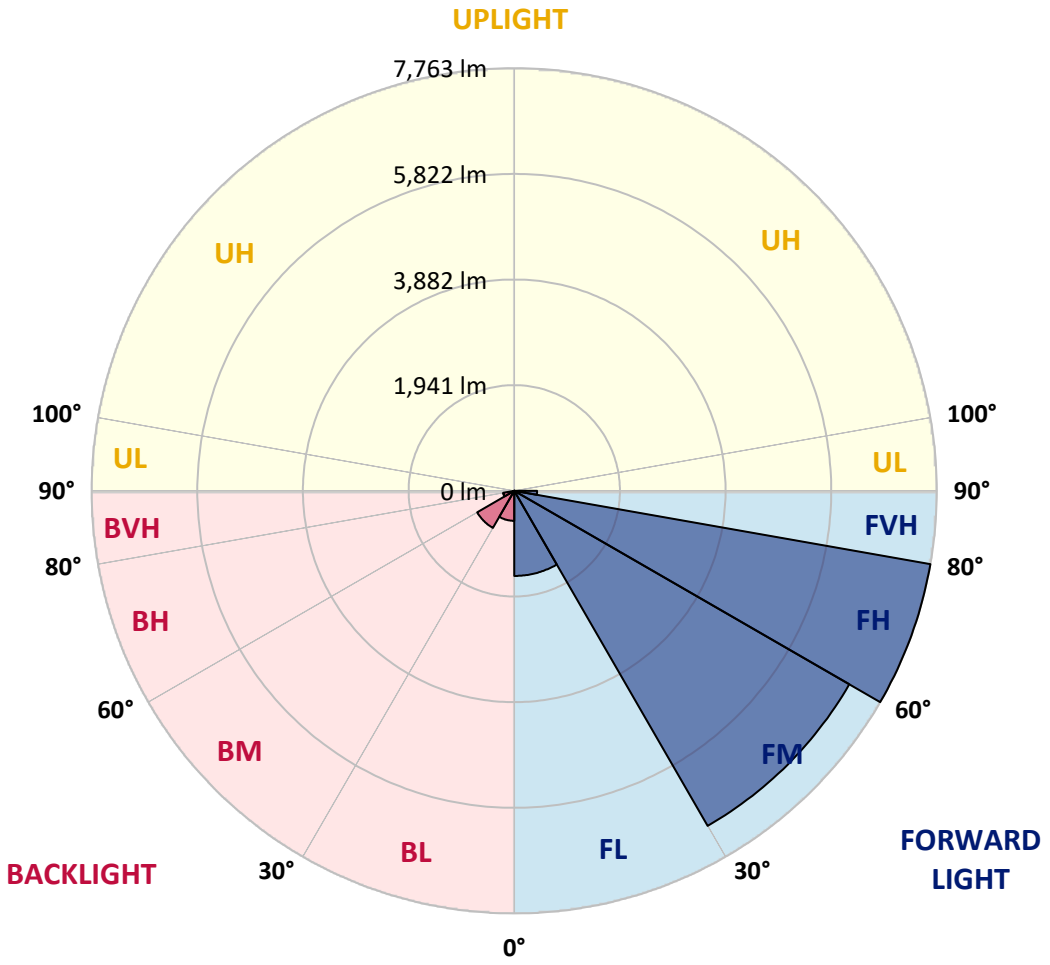
REPORT NUMBER: P324008
CATALOG NUMBER: GLEON-SA4C-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1563.7	8.5			
FM	(30°-60°)	7107.7	38.6			
FH	(60°-80°)	7763.2	42.2			G4/12000
FVH	(80°-90°)	418.9	2.3			G3/500
BL	(0°-30°)	551.4	3.0	B2/1000		
BM	(30°-60°)	786.4	4.3	B1/1000		
BH	(60°-80°)	206.9	1.1	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type IV Short



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Scaled Data Report

REPORT NUMBER: P324008
CATALOG NUMBER: GLEON-SA4C-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1
2.5°	3591.9	3592.7	3584.3	3570.5	3553.0	3543.8	3528.5	3504.1	3478.1	3431.5	3381.0
5°	3665.3	3665.3	3654.6	3636.3	3608.0	3599.6	3570.5	3531.6	3478.1	3402.4	3317.6
7.5°	3657.7	3659.2	3644.7	3625.6	3597.3	3589.6	3554.5	3510.9	3444.4	3352.7	3244.2
10°	3617.9	3621.7	3610.3	3601.1	3575.1	3566.7	3533.9	3490.3	3423.8	3326.0	3201.4
12.5°	3577.4	3581.2	3585.1	3593.5	3577.4	3574.4	3548.4	3511.7	3448.3	3346.6	3206.0
15°	3551.4	3559.1	3586.6	3619.5	3623.3	3620.2	3603.4	3569.0	3504.8	3399.4	3238.9
17.5°	3551.4	3563.7	3621.0	3683.7	3705.8	3708.1	3693.6	3645.4	3569.0	3455.9	3269.4
20°	3581.2	3598.1	3687.5	3776.1	3812.8	3812.8	3784.5	3717.3	3627.9	3507.1	3290.1
22.5°	3657.7	3679.8	3792.2	3894.6	3933.6	3925.2	3886.9	3789.1	3689.0	3565.2	3316.0
25°	3808.2	3825.0	3942.0	4045.1	4068.8	4049.7	4001.6	3876.2	3767.0	3643.9	3363.4
27.5°	4002.3	4004.6	4125.4	4212.5	4198.0	4185.0	4124.6	3985.5	3879.3	3756.3	3445.2
30°	4215.6	4215.6	4321.8	4388.3	4344.0	4333.3	4272.9	4117.7	4023.0	3909.1	3561.4
32.5°	4421.9	4431.1	4517.4	4559.5	4509.8	4499.1	4440.3	4285.1	4214.0	4142.2	3742.5
35°	4621.4	4628.3	4710.0	4733.0	4685.6	4688.6	4646.6	4515.1	4488.4	4479.2	4015.3
37.5°	4814.7	4816.3	4899.6	4914.1	4890.4	4916.4	4920.2	4804.0	4853.7	4927.8	4399.7
40°	4991.3	4992.8	5075.3	5112.8	5153.3	5186.9	5216.7	5154.8	5319.1	5491.1	4857.5
42.5°	5132.7	5148.7	5253.4	5324.5	5431.5	5495.7	5576.7	5573.6	5873.2	6131.5	5410.8
45°	5257.2	5284.7	5430.7	5555.3	5738.7	5841.1	5968.0	6067.3	6496.8	6844.6	5971.0
47.5°	5421.5	5447.5	5614.1	5818.2	6062.7	6197.2	6407.4	6622.2	7182.4	7544.6	6518.2
50°	5653.1	5641.6	5806.0	6098.7	6412.8	6589.3	6888.9	7210.6	7862.5	8154.5	6840.0
52.5°	5900.0	5895.4	6016.9	6403.6	6825.5	7031.8	7427.7	7819.0	8512.9	8574.8	6987.5
55°	6205.7	6172.8	6275.2	6751.3	7315.3	7537.0	8003.2	8421.2	9031.1	8811.7	7061.6
57.5°	6525.9	6471.6	6569.4	7138.8	7867.9	8130.0	8640.5	9008.1	9375.7	8973.7	7060.8
60°	6856.8	6792.6	6908.8	7623.3	8554.2	8857.6	9331.4	9404.8	9697.5	9055.5	7008.9
62.5°	7133.4	7095.2	7267.9	8141.5	9320.7	9618.8	9853.4	9765.5	9968.8	9118.9	6887.4
65°	7426.1	7428.4	7707.4	8746.0	10135.4	10336.4	10356.3	10233.2	10195.8	9106.0	6476.2
67.5°	7822.0	7858.7	8324.1	9566.8	10927.9	11083.0	11081.5	10739.9	10361.6	8589.3	5564.5
70°	8240.8	8327.2	9034.9	10506.0	11793.0	11950.5	11869.5	11062.4	9756.3	6945.4	3938.1
72.5°	8170.5	8320.3	9430.0	11098.3	12414.4	12534.3	12007.8	10269.9	7711.2	4036.7	1676.7
75°	6303.5	6477.0	8646.6	10511.4	11762.5	11654.7	10317.3	7991.7	4214.0	1126.5	377.5
77.5°	3329.8	3422.3	5712.0	8007.7	9171.7	8946.2	7267.9	4433.4	1284.7	278.9	169.7
80°	1744.0	1765.4	2489.1	4543.4	5660.7	5662.3	4307.3	1947.3	529.6	142.9	113.9
82.5°	933.9	952.2	1315.3	2099.4	2966.0	2688.6	1649.2	1071.5	308.0	81.0	109.3
85°	224.7	228.5	745.9	959.1	1166.2	833.0	489.9	899.5	83.3	47.4	88.7
87.5°	86.4	87.9	276.7	415.0	297.3	192.6	229.3	335.5	10.7	18.3	13.8
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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REPORT NUMBER: P324008
CATALOG NUMBER: GLEON-SA4C-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1	3384.1
2.5°	3350.4	3330.6	3281.7	3219.8	3164.7	3125.0	3065.4	3026.4	3000.4	2999.7	2989.7
5°	3265.6	3225.1	3119.6	2994.3	2880.4	2778.0	2657.3	2561.7	2490.7	2479.2	2454.7
7.5°	3174.7	3108.2	2946.2	2750.5	2559.4	2365.3	2139.9	2000.0	1880.0	1822.7	1816.6
10°	3118.9	3025.6	2795.6	2512.8	2213.2	1897.6	1602.6	1398.6	1251.1	1209.0	1177.7
12.5°	3107.4	2984.4	2679.4	2289.7	1861.7	1444.4	1118.1	901.0	783.3	745.9	736.0
15°	3118.9	2965.3	2581.6	2068.8	1505.6	1024.8	750.5	624.4	580.1	569.4	568.6
17.5°	3125.8	2942.3	2470.8	1823.5	1160.1	732.1	574.7	538.0	531.1	530.4	531.9
20°	3125.0	2907.2	2338.6	1549.9	862.8	575.5	519.7	512.0	510.5	511.3	510.5
22.5°	3119.6	2865.9	2193.4	1267.9	651.9	514.3	496.0	491.4	490.6	490.6	490.6
25°	3129.6	2833.0	2033.7	998.1	537.3	486.1	474.6	470.8	470.0	470.0	468.5
27.5°	3165.5	2814.7	1858.6	768.1	485.3	460.8	451.7	450.9	448.6	447.8	449.4
30°	3223.6	2814.7	1666.8	597.6	454.0	434.9	428.0	426.4	425.7	424.9	425.7
32.5°	3326.0	2836.1	1457.4	496.8	424.2	405.8	401.2	403.5	401.2	401.2	401.2
35°	3510.9	2900.3	1238.1	433.3	392.8	377.5	373.0	376.0	374.5	374.5	373.7
37.5°	3780.7	3019.5	1017.2	395.1	365.3	349.3	343.1	347.7	346.2	346.2	345.4
40°	4109.3	3193.0	807.0	366.1	338.6	321.7	316.4	318.7	314.9	314.9	316.4
42.5°	4515.1	3413.1	623.6	337.8	311.8	295.8	292.7	290.4	283.5	279.7	280.5
45°	4966.0	3642.4	486.1	310.3	286.6	273.6	269.0	262.9	251.4	243.8	244.6
47.5°	5368.8	3818.9	395.1	283.5	263.7	253.7	246.9	235.4	218.6	209.4	210.2
50°	5580.5	3845.7	336.3	256.8	242.3	232.3	222.4	204.8	184.9	175.0	174.2
52.5°	5634.8	3720.3	292.7	232.3	220.9	209.4	196.4	172.7	150.6	139.9	138.3
55°	5654.6	3529.3	253.7	209.4	197.9	184.9	168.1	141.4	120.8	110.1	109.3
57.5°	5588.9	3244.2	223.2	188.8	175.0	159.0	138.3	113.1	93.2	84.8	84.8
60°	5442.9	2858.3	199.5	166.6	151.3	133.0	111.6	87.9	69.5	62.7	62.7
62.5°	5151.8	2358.5	177.3	143.7	129.2	110.1	90.2	66.5	48.9	45.1	45.9
65°	4602.3	1789.1	155.1	123.0	110.1	90.9	70.3	47.4	32.9	32.9	34.4
67.5°	3753.2	1242.7	132.2	104.7	94.8	74.1	53.5	32.9	22.9	26.0	29.0
70°	2484.6	697.0	113.1	86.4	81.0	58.8	39.7	22.2	18.3	24.5	29.8
72.5°	*937.7*	*271.3*	*94.8*	*69.5*	*70.3*	*45.1*	*28.3*	*16.8*	*16.8*	*26.7*	*35.2*
75°	261.4	133.0	68.0	51.2	55.0	32.9	20.6	14.5	16.0	30.6	41.3
77.5°	153.6	97.8	44.3	29.8	37.4	22.9	13.8	11.5	13.8	26.0	39.7
80°	123.8	52.0	26.0	15.3	20.6	13.0	9.2	6.9	3.8	9.9	20.6
82.5°	123.8	31.3	12.2	10.7	10.7	6.9	4.6	3.1	0.8	0.0	5.3
85°	83.3	13.0	7.6	6.9	5.3	2.3	1.5	0.8	0.0	0.0	0.0
87.5°	13.8	5.3	3.1	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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

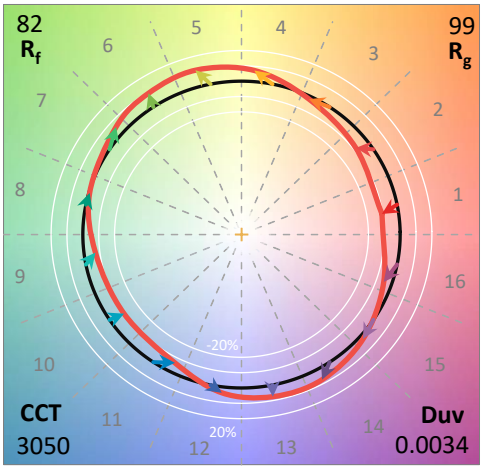
Test Information

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

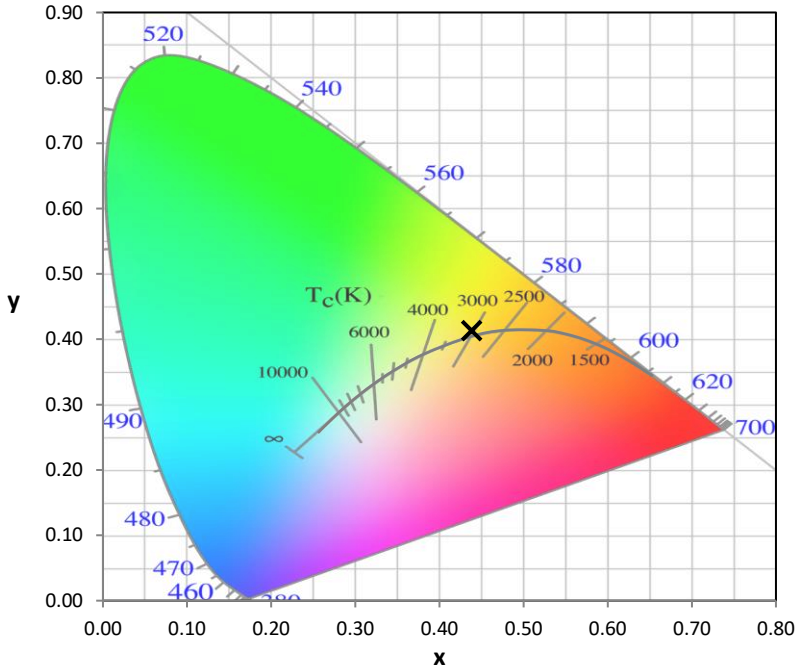
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

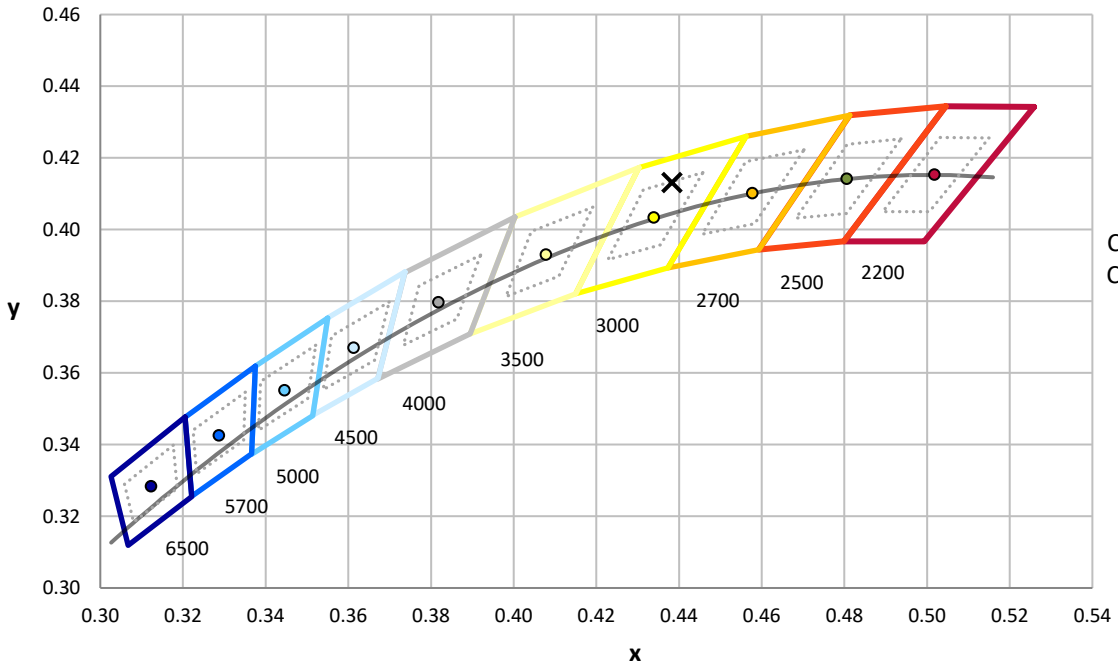
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

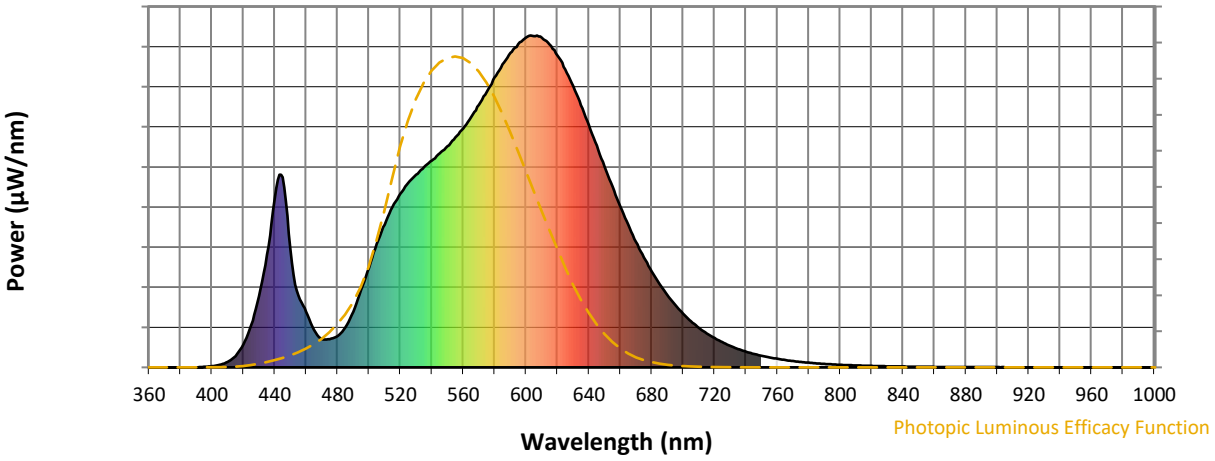


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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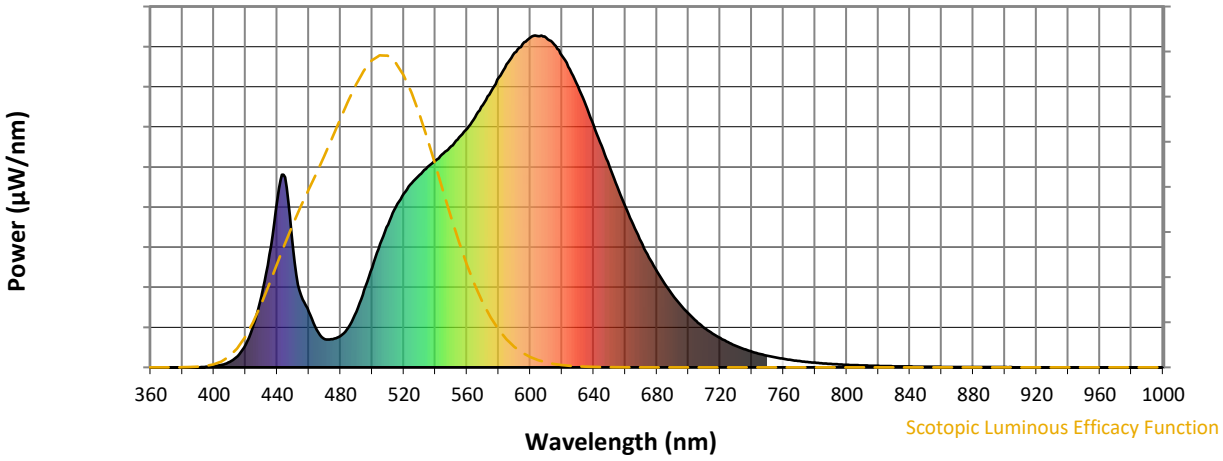
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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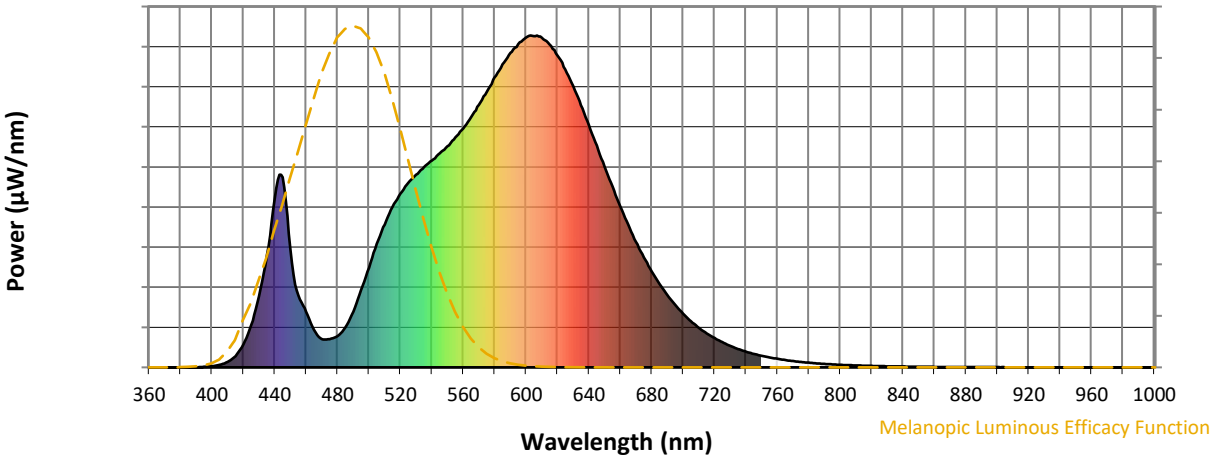
Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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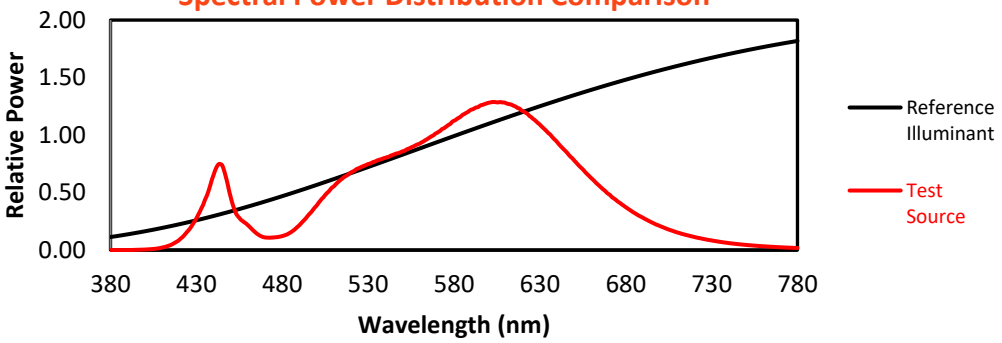
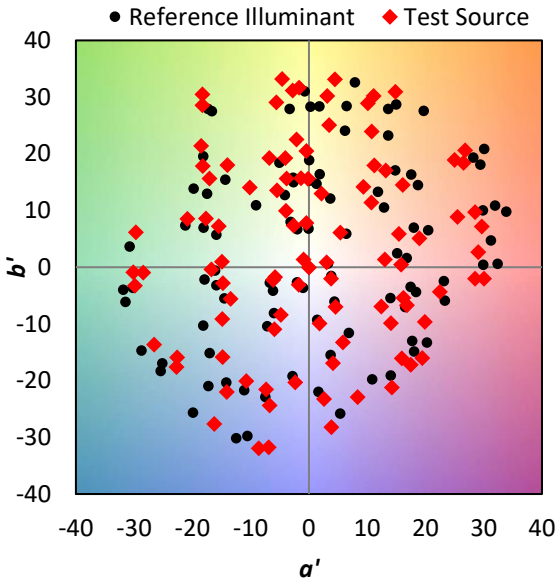
Summary

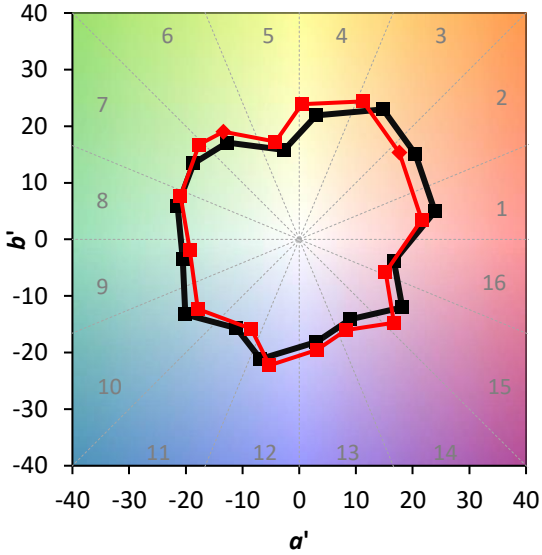
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

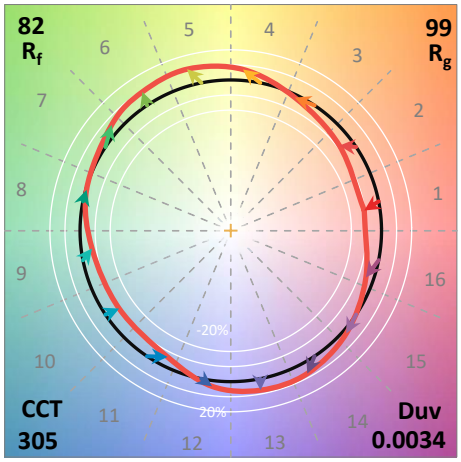
Spectral Power Distribution Comparison

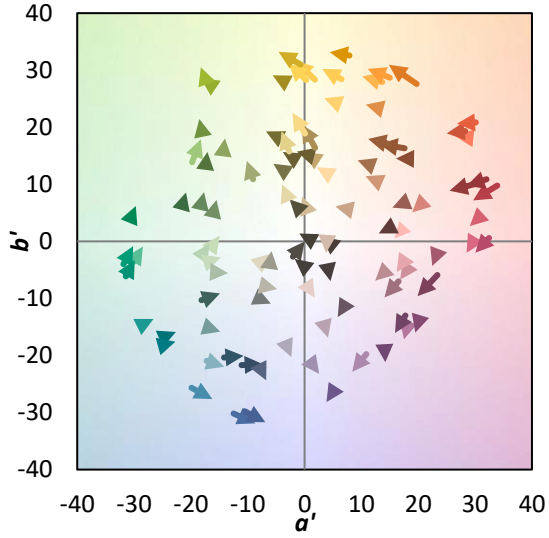


Color Vector Graphics









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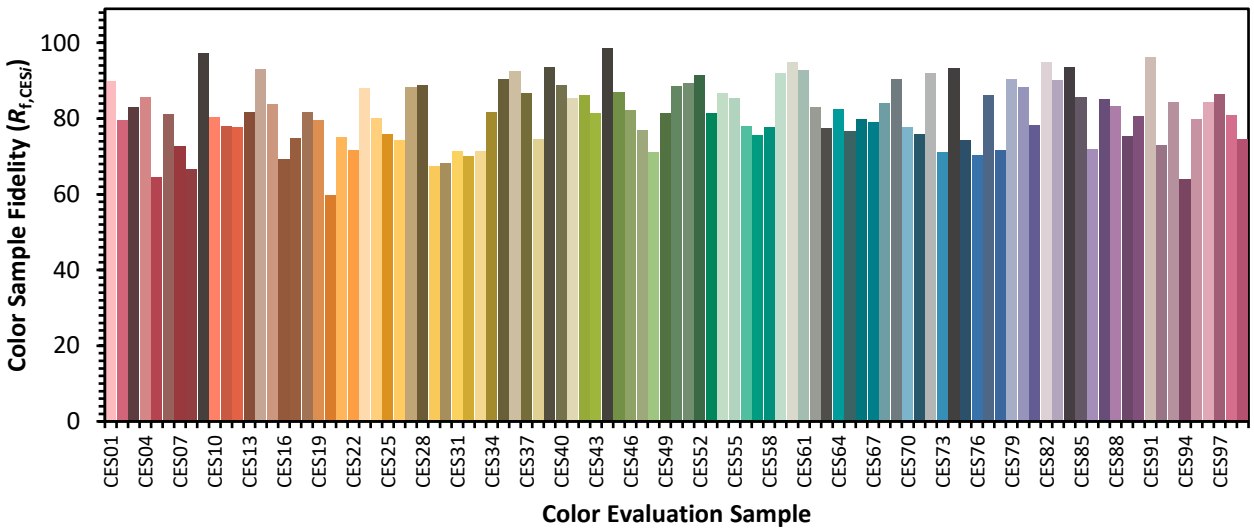
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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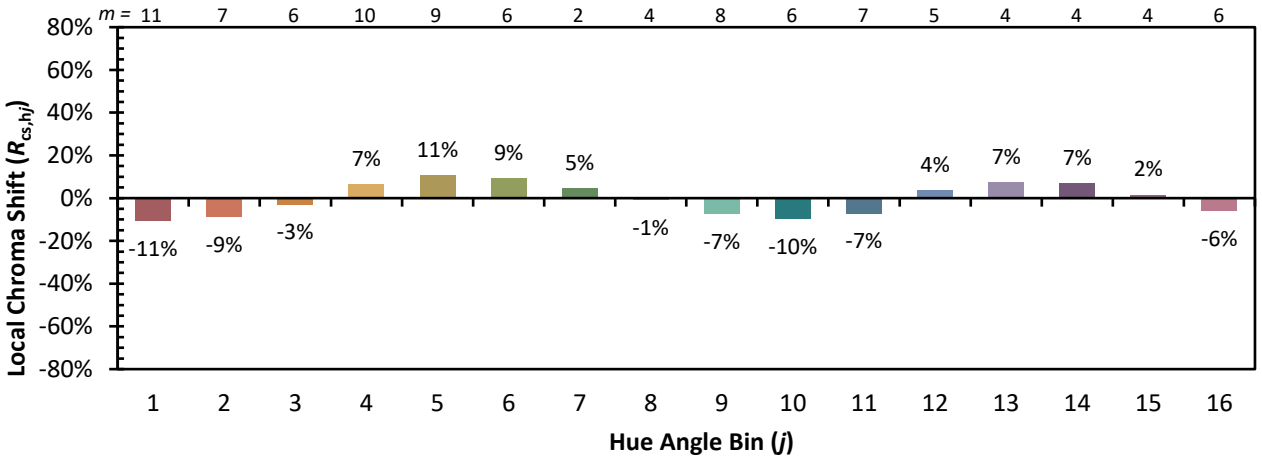
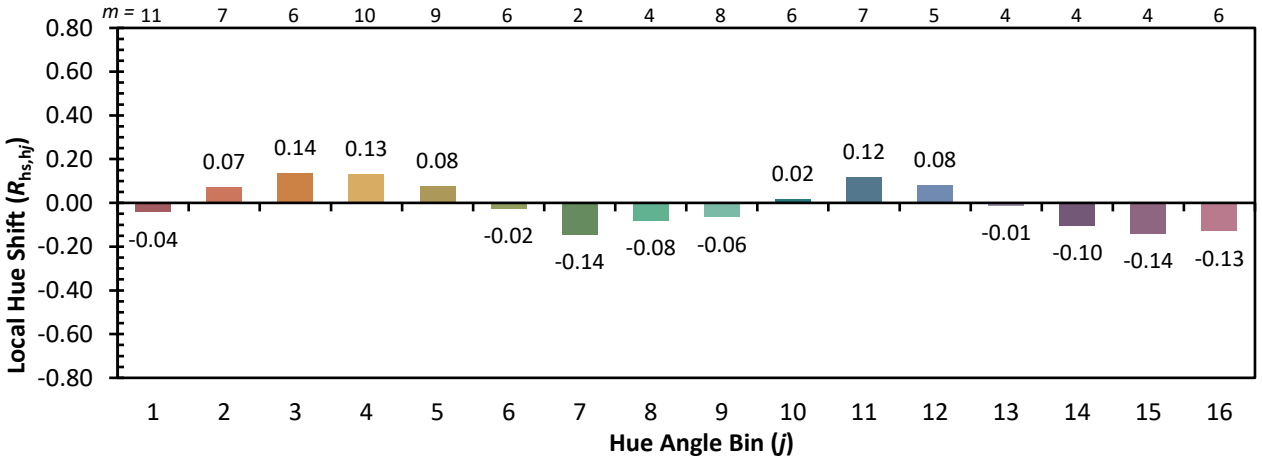
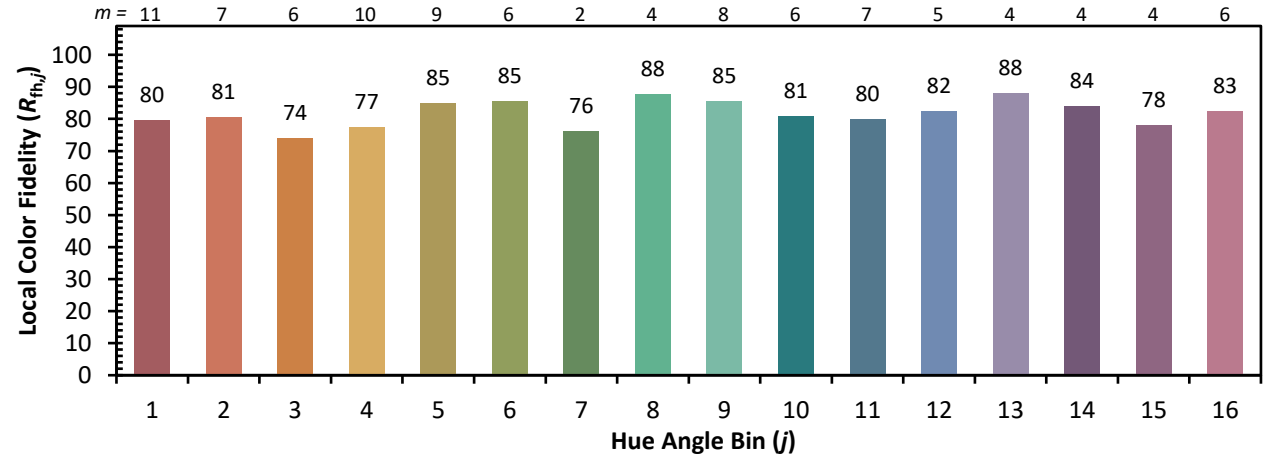
Color Rendition by Hue-Angle Bin







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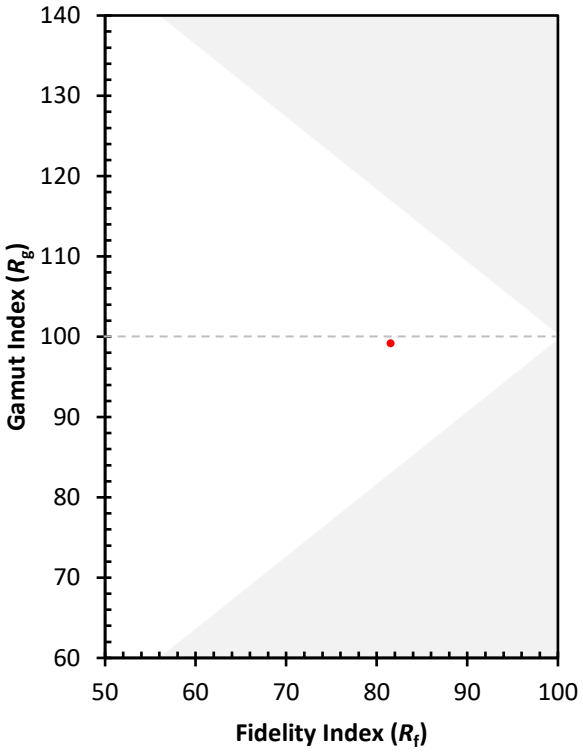
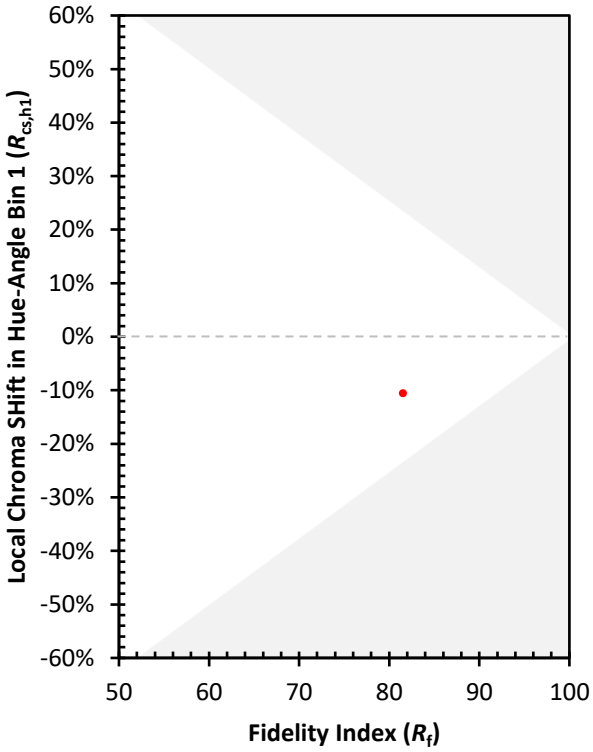
Measure Comparisons





(END OF REPORT)