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: P323672

Luminaire Tested: **GLEON-SA8A-830-U-SL3-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:	P323672
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA8A-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25355 lumens
Efficiency:	N/A
Efficacy:	98.7 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	257
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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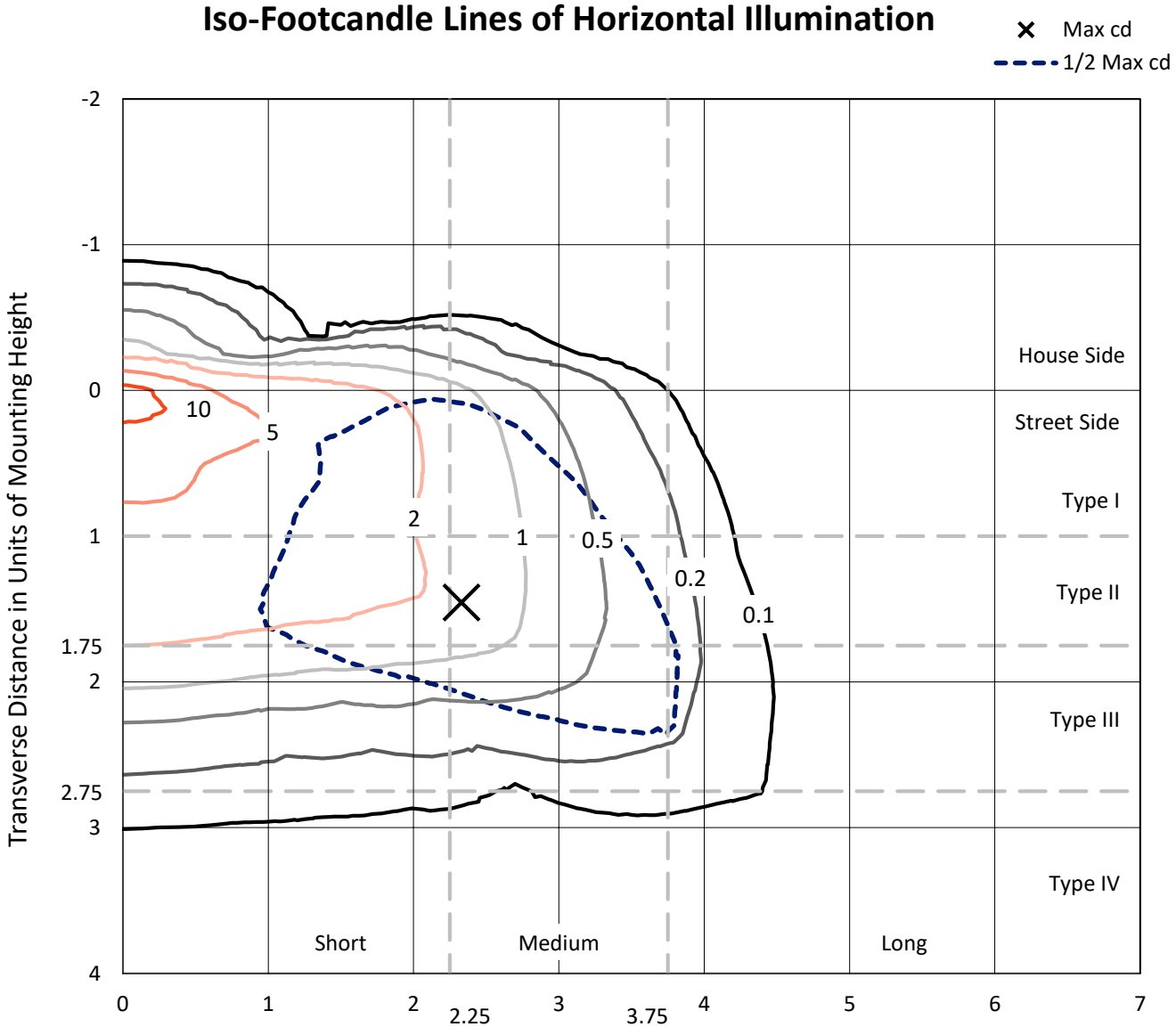
Scaled Data Report

REPORT NUMBER: P323672
CATALOG NUMBER: GLEON-SA8A-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type III - Medium - N/A

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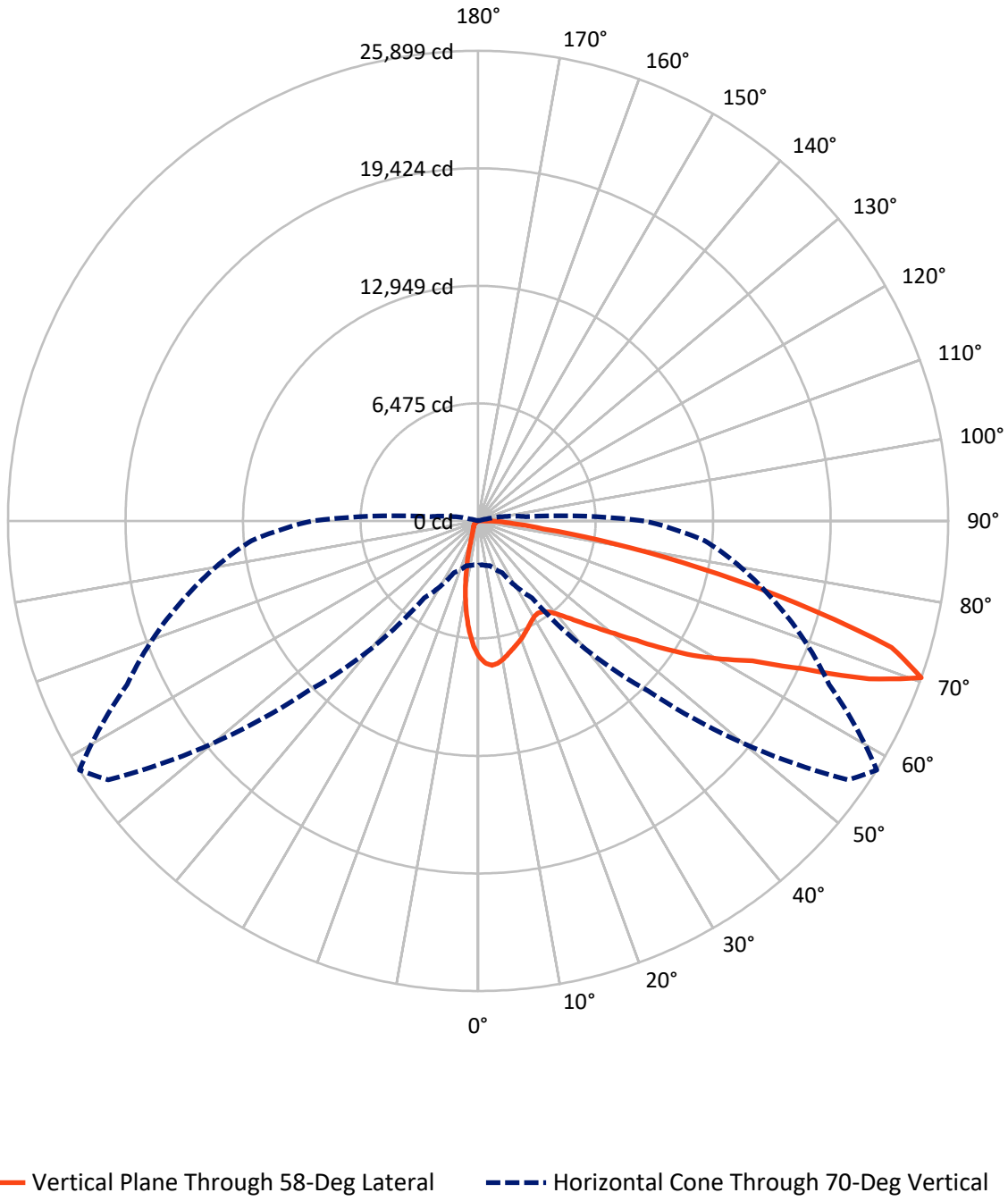
Luminous Intensity Polar Plot



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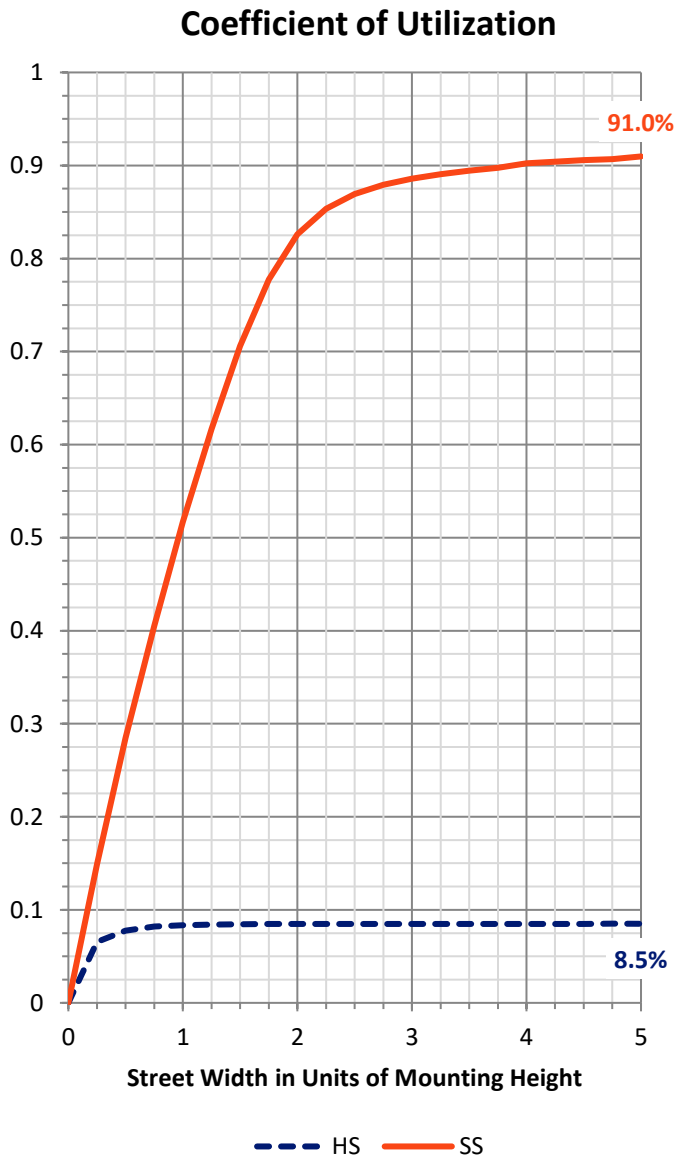
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2169.8	0.0	2169.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	23185.2	0.0	23185.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	25355.0	0.0	25355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.5	2.4
10°-20°	1285.4	5.1
20°-30°	1689.9	6.7
30°-40°	2238.1	8.8
40°-50°	3345.2	13.2
50°-60°	5358.9	21.1
60°-70°	6754.9	26.6
70°-80°	3643.6	14.4
80°-90°	426.5	1.7
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°	25355.0	100.0
0°-180°	25355.0	100.0



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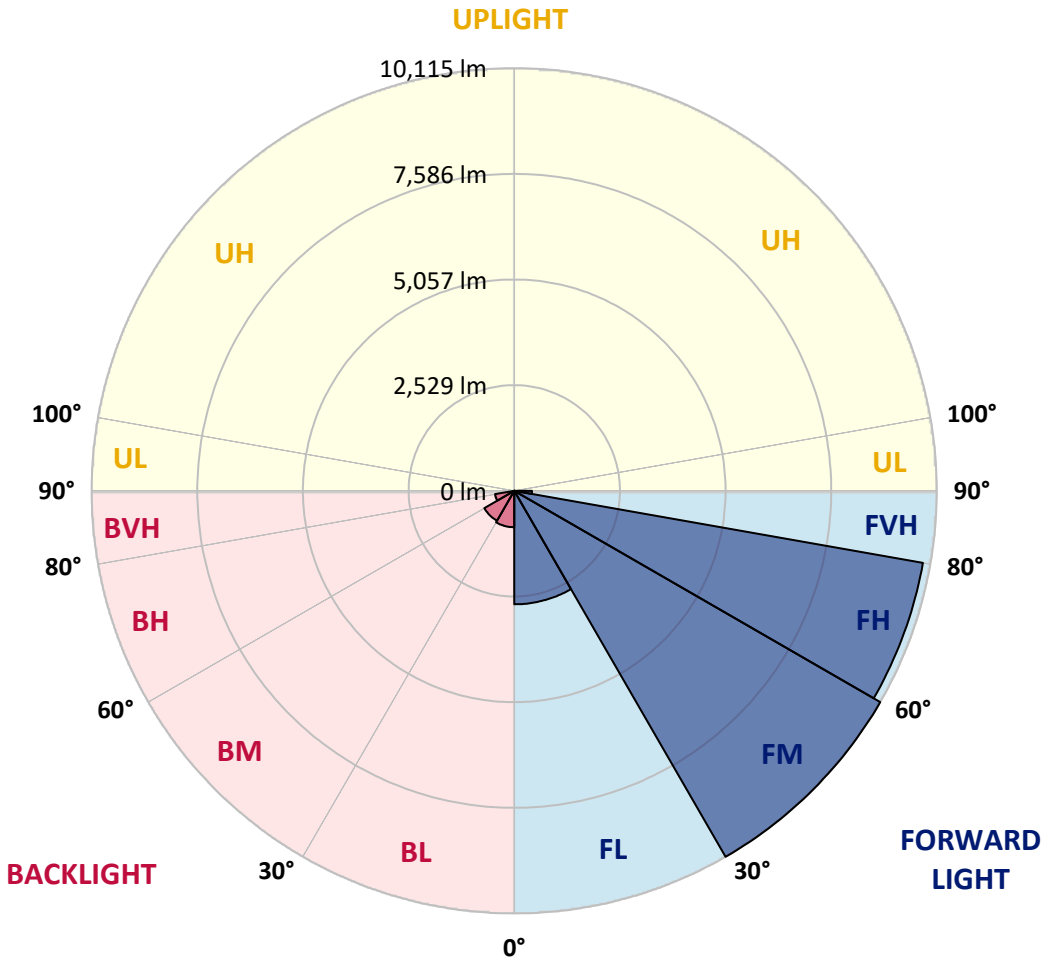
Scaled Data Report

REPORT NUMBER: P323672
CATALOG NUMBER: GLEON-SA8A-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2716.0	10.7			
FM	(30°-60°)	10114.5	39.9			
FH	(60°-80°)	9931.8	39.2			G4/12000
FVH	(80°-90°)	422.8	1.7			G3/500
BL	(0°-30°)	871.8	3.4	B2/1000		
BM	(30°-60°)	827.8	3.3	B1/1000		
BH	(60°-80°)	466.6	1.8	B1/500		G1/500
BVH	(80°-90°)	3.7	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 III Medium



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Scaled Data Report

REPORT NUMBER: P323672
CATALOG NUMBER: GLEON-SA8A-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7
2.5°	8110.7	8090.7	8083.3	8070.7	8022.2	7974.7	7880.9	7854.5	7795.5	7655.3	7506.6
5°	8117.1	8116.0	8138.1	8132.9	8116.0	8093.9	8026.4	7991.6	7891.4	7691.1	7419.1
7.5°	7725.9	7745.9	7795.5	7835.6	7881.9	7942.0	7950.5	7916.7	7834.5	7618.4	7257.8
10°	7200.9	7232.5	7302.1	7381.2	7502.4	7622.6	7730.1	7725.9	7697.4	7484.5	7063.8
12.5°	6674.8	6711.7	6791.8	6908.8	7080.7	7276.8	7468.7	7495.0	7542.5	7364.3	6884.6
15°	6214.0	6245.7	6324.7	6468.1	6681.1	6944.7	7226.2	7274.7	7397.0	7270.5	6734.9
17.5°	5822.9	5842.9	5900.9	6060.1	6306.8	6626.3	6992.1	7087.0	7269.4	7196.7	6605.2
20°	5549.8	5553.0	5591.0	5702.7	5949.4	6306.8	6749.6	6885.6	7134.4	7133.4	6471.3
22.5°	5414.9	5404.3	5411.7	5476.0	5657.4	6002.1	6507.1	6668.4	7013.2	7079.6	6335.3
25°	5389.6	5381.1	5360.1	5368.5	5478.1	5735.4	6262.5	6449.2	6906.7	7046.9	6217.2
27.5°	5468.7	5477.1	5441.2	5403.3	5411.7	5562.5	6045.4	6261.5	6820.3	7046.9	6133.9
30°	5627.9	5632.1	5605.7	5556.2	5489.7	5514.0	5894.6	6110.7	6777.0	7095.4	6081.2
32.5°	5803.9	5827.1	5824.0	5783.9	5689.0	5591.0	5858.7	6055.9	6773.9	7203.0	6075.9
35°	6022.2	6048.5	6092.8	6084.4	5985.3	5824.0	5981.0	6136.0	6836.1	7380.1	6132.9
37.5°	6254.1	6294.2	6389.1	6434.4	6370.1	6187.7	6255.2	6365.9	7002.7	7666.9	6277.3
40°	6478.7	6524.0	6696.9	6875.1	6826.6	6638.9	6670.6	6759.1	7298.9	8079.1	6551.4
42.5°	6699.0	6766.5	7020.6	7313.7	7371.7	7222.0	7238.8	7309.5	7738.6	8646.3	6999.5
45°	6962.6	7038.5	7414.9	7776.5	7931.5	7866.1	7937.8	7984.2	8313.2	9395.9	7603.6
47.5°	7349.5	7437.0	7898.8	8311.0	8583.1	8625.2	8769.7	8800.2	9039.6	10268.9	8391.2
50°	8104.4	8128.7	8546.2	8920.4	9312.6	9565.7	9730.1	9753.3	9918.9	11223.0	9374.8
52.5°	9054.3	9070.1	9306.3	9557.2	10003.2	10519.8	10904.6	10937.3	10972.1	12152.9	10345.8
55°	9997.9	9995.8	10151.9	10299.5	10809.7	11560.4	12395.4	12415.4	12165.6	13035.4	11088.1
57.5°	10587.3	10644.2	10881.4	11071.2	11783.9	12746.5	13905.2	13979.0	13419.1	13689.0	11821.9
60°	10399.6	10427.0	10953.1	11655.3	12997.4	14432.3	15432.8	15451.8	14361.7	14341.6	12749.6
62.5°	8860.3	8875.1	9701.7	11149.2	13612.1	16618.9	17275.8	16966.8	15445.5	15247.3	13859.8
65°	6072.8	6168.7	6859.3	8648.4	12482.9	17990.6	20128.7	19617.4	17097.6	16552.5	14863.5
67.5°	3576.2	3556.2	3897.7	5215.6	9168.2	17079.7	23737.6	23229.4	19350.6	17426.5	14569.4
70°	2442.8	2429.1	2559.8	3157.6	5175.6	13249.4	24873.0	25898.9	21340.1	16838.2	12538.8
72.5°	1743.8	1751.2	1944.1	2453.4	3249.4	7719.6	21389.6	23817.7	20717.0	14679.0	9530.9
75°	1184.0	1204.0	1480.2	2012.7	2848.7	3927.3	15178.8	18105.5	16869.9	10668.5	5478.1
77.5°	636.8	658.9	984.7	1621.5	2575.7	2728.5	9763.9	12460.8	10596.8	4796.0	1587.8
80°	265.7	278.3	460.7	1178.7	2225.6	2396.4	5744.9	7556.2	4515.6	945.7	354.2
82.5°	114.9	121.2	191.9	703.2	1663.7	2023.2	3041.7	3635.2	1368.5	207.7	178.2
85°	22.1	23.2	79.1	372.2	1061.7	1141.8	1971.5	1932.5	614.7	89.6	129.7
87.5°	0.0	0.0	19.0	117.0	312.1	622.0	1203.0	1188.2	208.8	43.2	48.5
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: P323672
CATALOG NUMBER: GLEON-SA8A-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7	7489.7
2.5°	7430.7	7358.0	7205.1	7016.4	6871.9	6712.7	6586.2	6426.0	6356.4	6359.5	6321.6
5°	7264.1	7114.4	6776.0	6349.0	6020.1	5680.6	5388.5	5097.5	4925.7	4869.8	4817.1
7.5°	7025.9	6788.6	6248.8	5591.0	5034.3	4490.3	4016.9	3600.4	3336.9	3208.2	3160.8
10°	6757.0	6423.8	5642.6	4776.0	3981.0	3245.1	2631.5	2098.1	1885.1	1740.6	1703.7
12.5°	6520.8	6069.6	5050.1	3939.9	2996.3	2108.6	1523.5	1191.4	1046.9	990.0	980.5
15°	6298.4	5738.6	4479.7	3182.9	2074.9	1297.8	968.9	856.1	822.4	812.9	812.9
17.5°	6088.6	5423.3	3922.0	2437.5	1372.7	909.9	802.3	777.0	766.5	765.4	766.5
20°	5869.3	5108.1	3373.8	1786.0	958.4	770.7	741.2	727.5	724.3	724.3	724.3
22.5°	5659.5	4792.8	2840.3	1275.7	768.6	703.2	688.5	679.0	675.8	674.8	672.6
25°	5458.1	4493.4	2319.5	901.4	674.8	644.2	631.5	618.9	609.4	604.1	601.0
27.5°	5292.6	4226.7	1834.5	723.2	609.4	583.0	567.2	548.2	525.0	514.5	510.3
30°	5160.8	3983.1	1413.8	610.4	548.2	521.9	497.6	464.9	431.2	413.3	412.2
32.5°	5057.5	3743.8	1073.3	539.8	493.4	460.7	425.9	384.8	345.8	325.8	324.7
35°	5006.9	3533.0	820.2	488.1	444.9	403.8	360.6	315.2	277.3	258.3	256.2
37.5°	5040.6	3354.8	640.0	444.9	403.8	356.4	305.7	258.3	224.6	207.7	206.6
40°	5164.0	3240.9	519.8	408.0	369.0	311.0	256.2	211.9	183.4	169.7	168.7
42.5°	5426.5	3198.7	443.9	377.4	335.3	268.8	213.0	175.0	148.7	139.2	137.1
45°	5865.1	3260.9	392.2	347.9	300.5	228.8	176.1	143.4	120.2	112.8	111.8
47.5°	6449.2	3424.4	355.3	319.5	268.8	192.9	146.5	116.0	98.0	90.7	89.6
50°	7201.9	3683.7	324.7	291.0	239.3	163.4	121.2	91.7	75.9	70.6	70.6
52.5°	8021.1	3992.6	297.3	264.6	209.8	136.0	98.0	70.6	60.1	53.8	53.8
55°	8698.0	4262.5	267.8	244.6	174.0	112.8	74.9	53.8	44.3	41.1	41.1
57.5°	9373.8	4550.4	234.1	209.8	139.2	91.7	56.9	40.1	32.7	30.6	30.6
60°	10249.9	4902.5	201.4	170.8	109.6	69.6	42.2	28.5	24.2	23.2	23.2
62.5°	11213.5	5109.1	171.9	137.1	85.4	51.7	30.6	19.0	17.9	17.9	16.9
65°	11802.9	4817.1	144.4	109.6	66.4	39.0	20.0	13.7	15.8	14.8	12.7
67.5°	11051.2	3771.2	118.1	85.4	51.7	29.5	12.7	9.5	16.9	13.7	10.5
70°	*9150.3*	*2640.0*	*91.7*	*60.1*	*41.1*	*25.3*	*8.4*	*6.3*	*17.9*	*13.7*	*8.4*
72.5°	6847.7	1767.0	72.7	40.1	30.6	22.1	7.4	3.2	15.8	11.6	7.4
75°	3741.7	711.7	58.0	25.3	19.0	15.8	5.3	2.1	10.5	8.4	5.3
77.5°	984.7	187.7	42.2	16.9	10.5	6.3	3.2	1.1	5.3	4.2	2.1
80°	250.9	72.7	27.4	11.6	7.4	3.2	0.0	0.0	1.1	0.0	0.0
82.5°	133.9	30.6	16.9	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	101.2	20.0	9.5	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	39.0	6.3	3.2	0.0	0.0	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

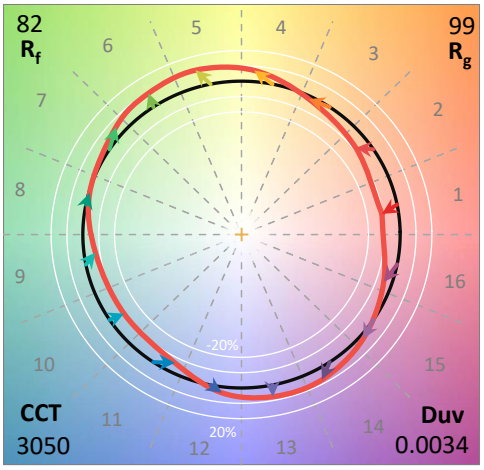
Test Information

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

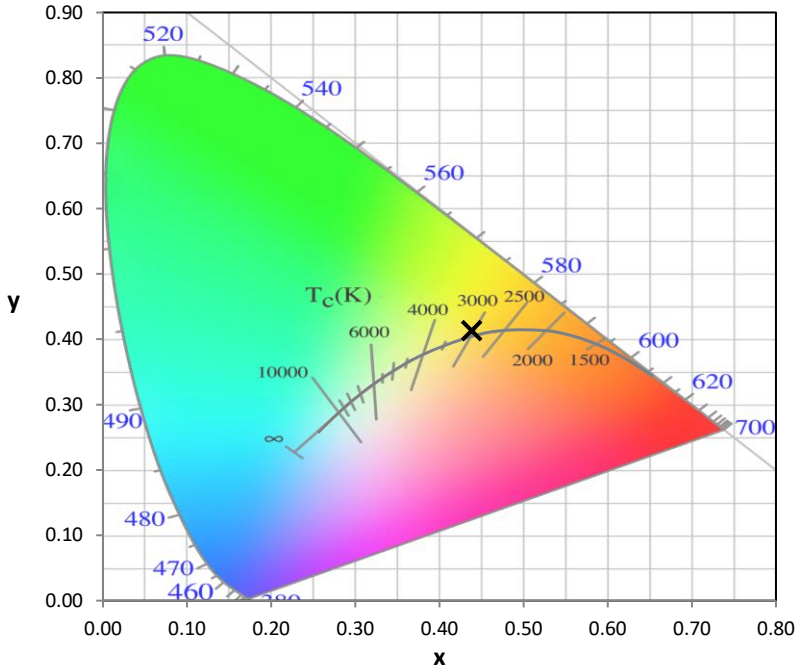
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

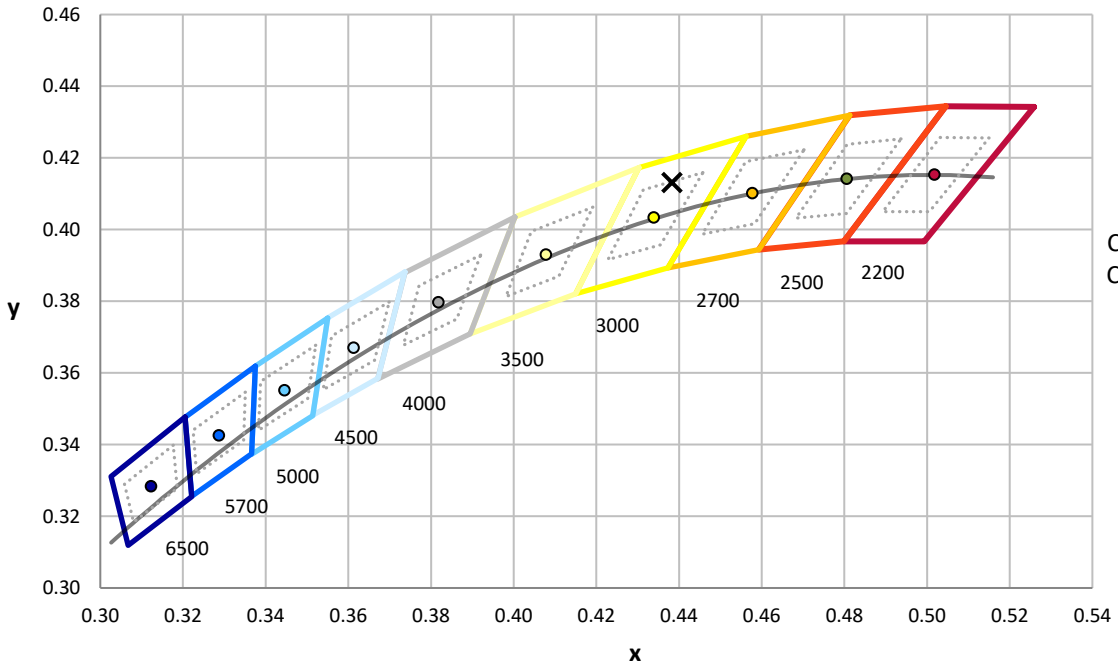
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

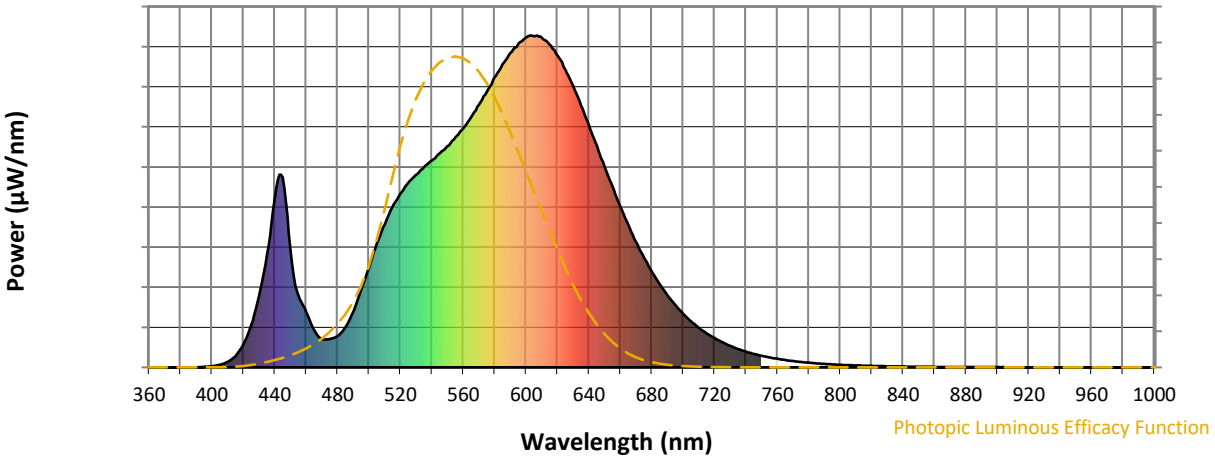


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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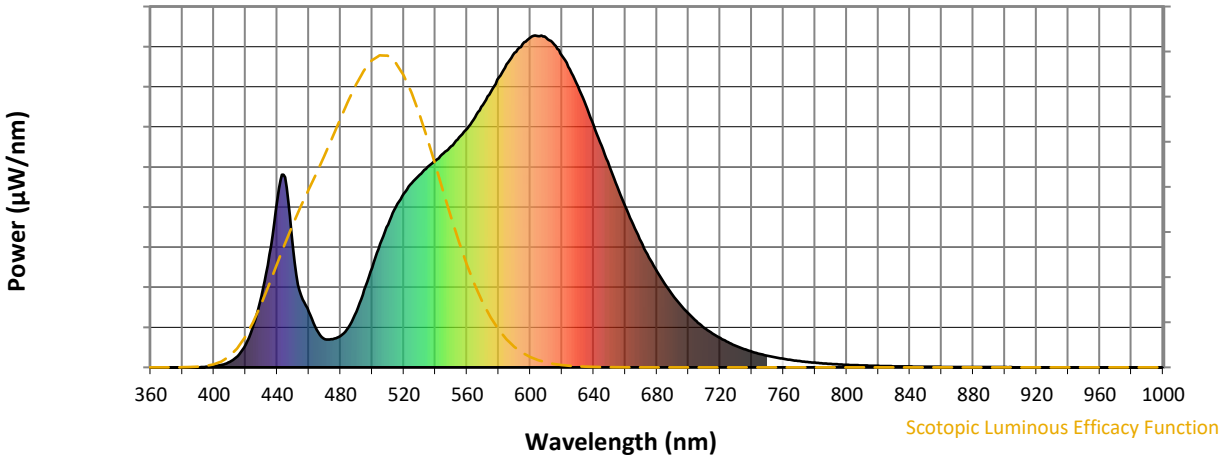
Scotopic Flux vs. Wavelength



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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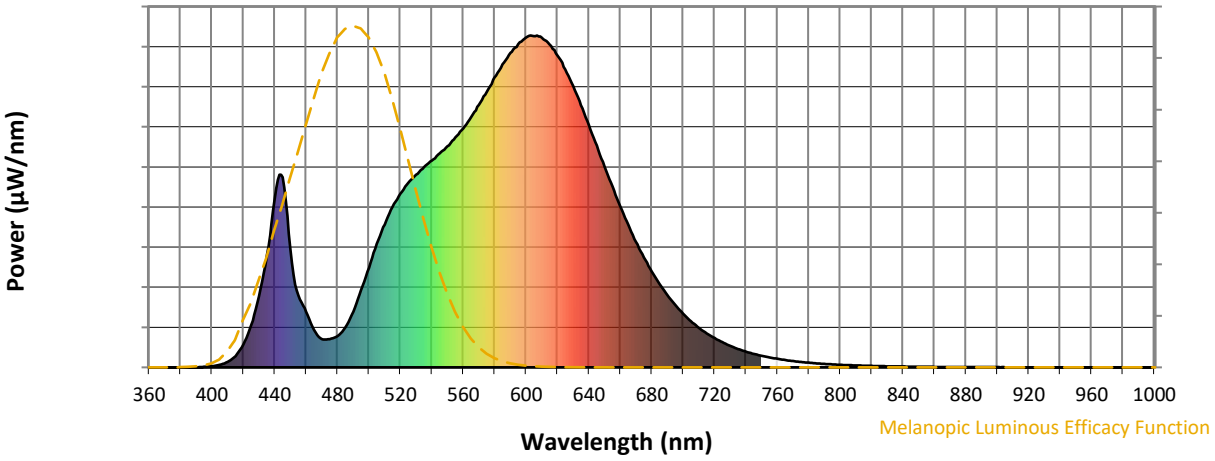
Melanopic Flux vs. Wavelength



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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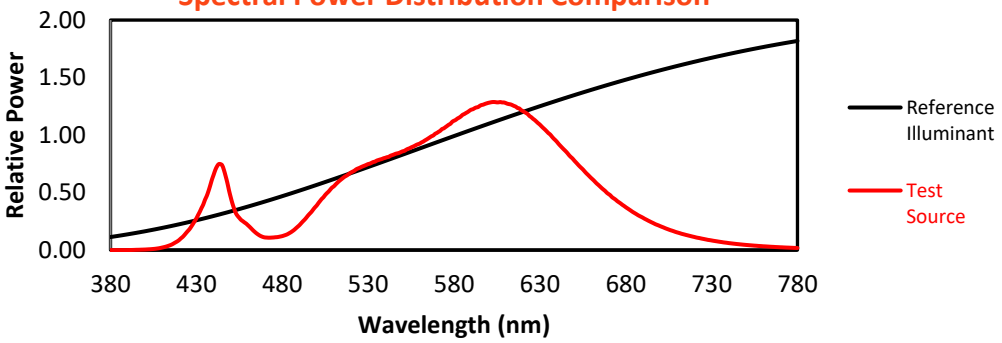
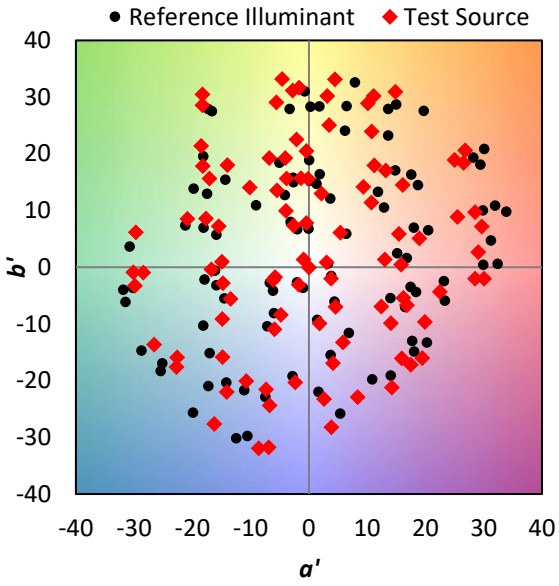
Summary

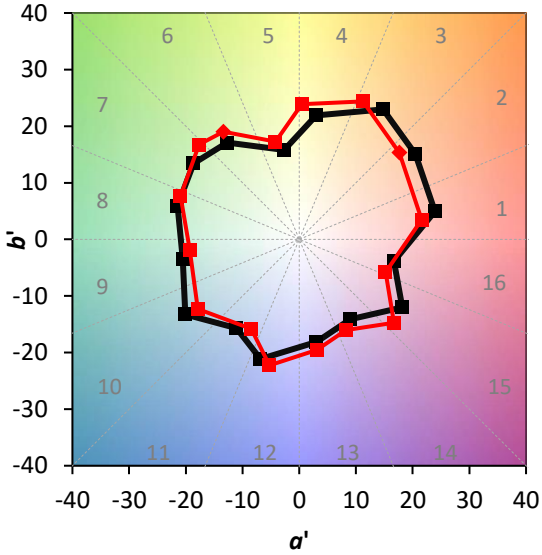
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

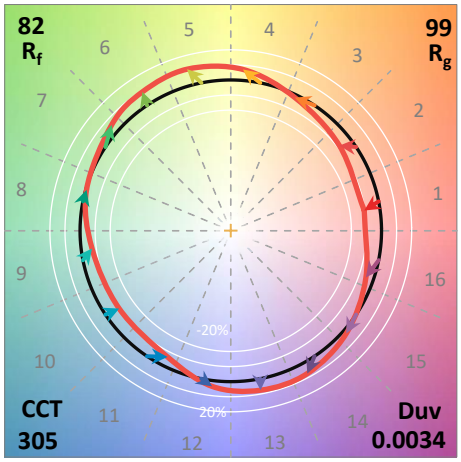
Spectral Power Distribution Comparison

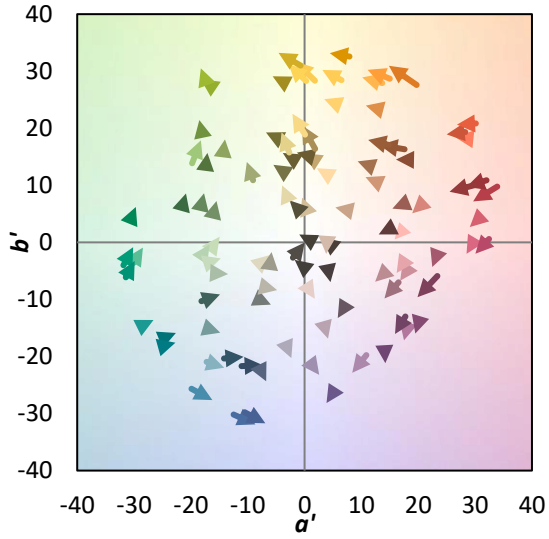


Color Vector Graphics









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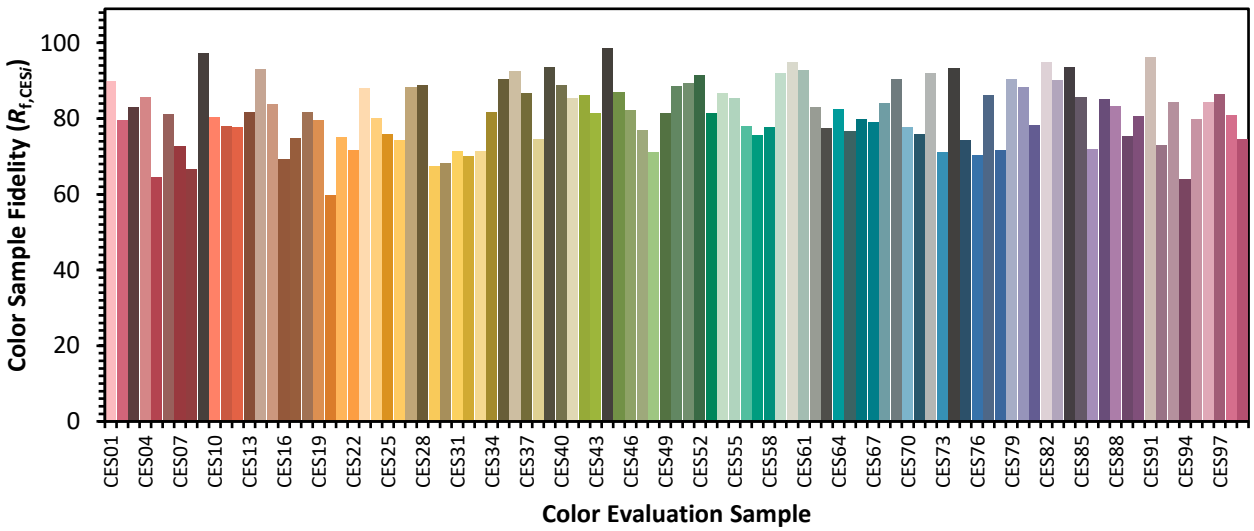
Individual Sample Fidelity Index ($R_{f,i}$)

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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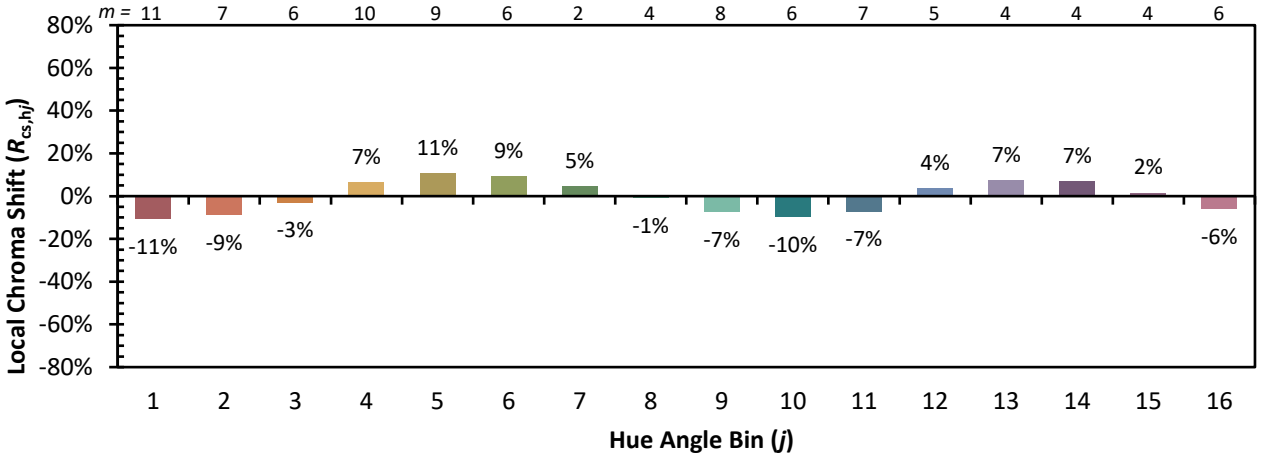
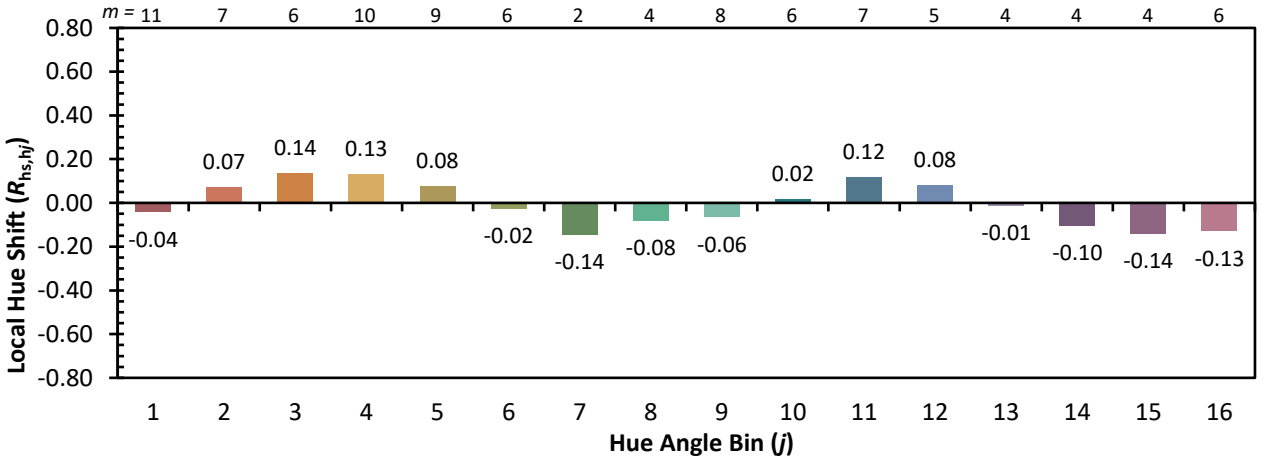
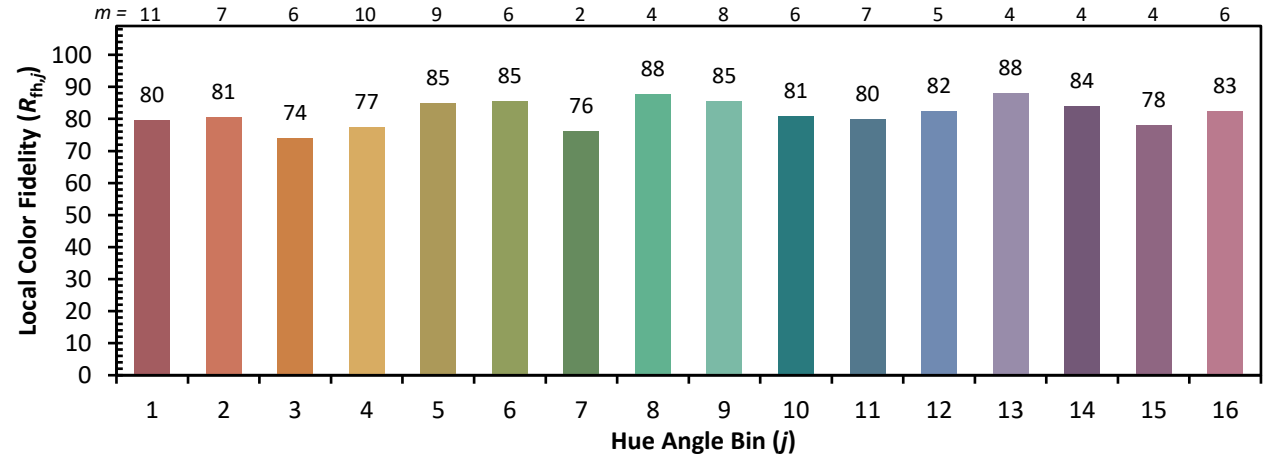
Color Rendition by Hue-Angle Bin







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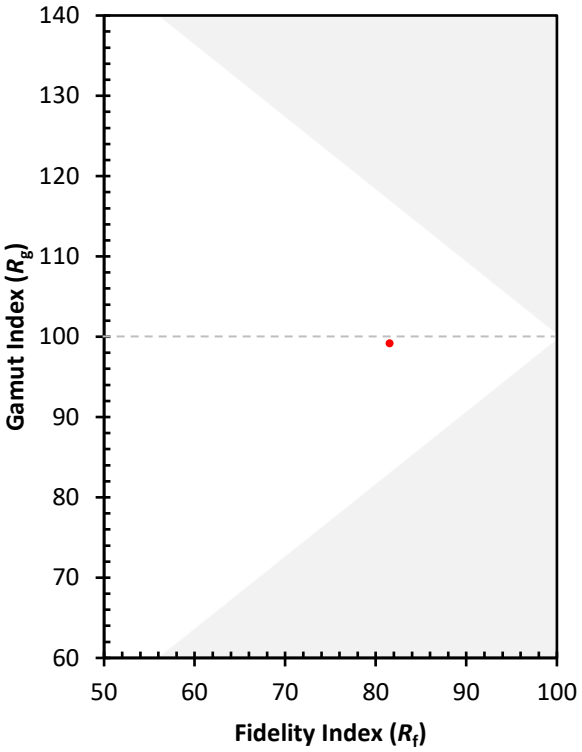
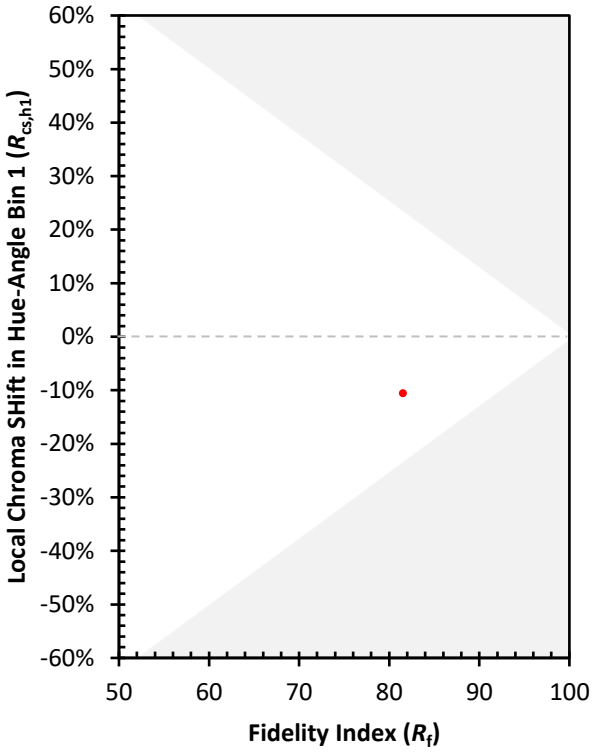
Measure Comparisons





(END OF REPORT)