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: P324967

Luminaire Tested: **GLEON-SA3C-830-U-AFL-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:	P324967
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3C-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14046 lumens
Efficiency:	N/A
Efficacy:	84.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

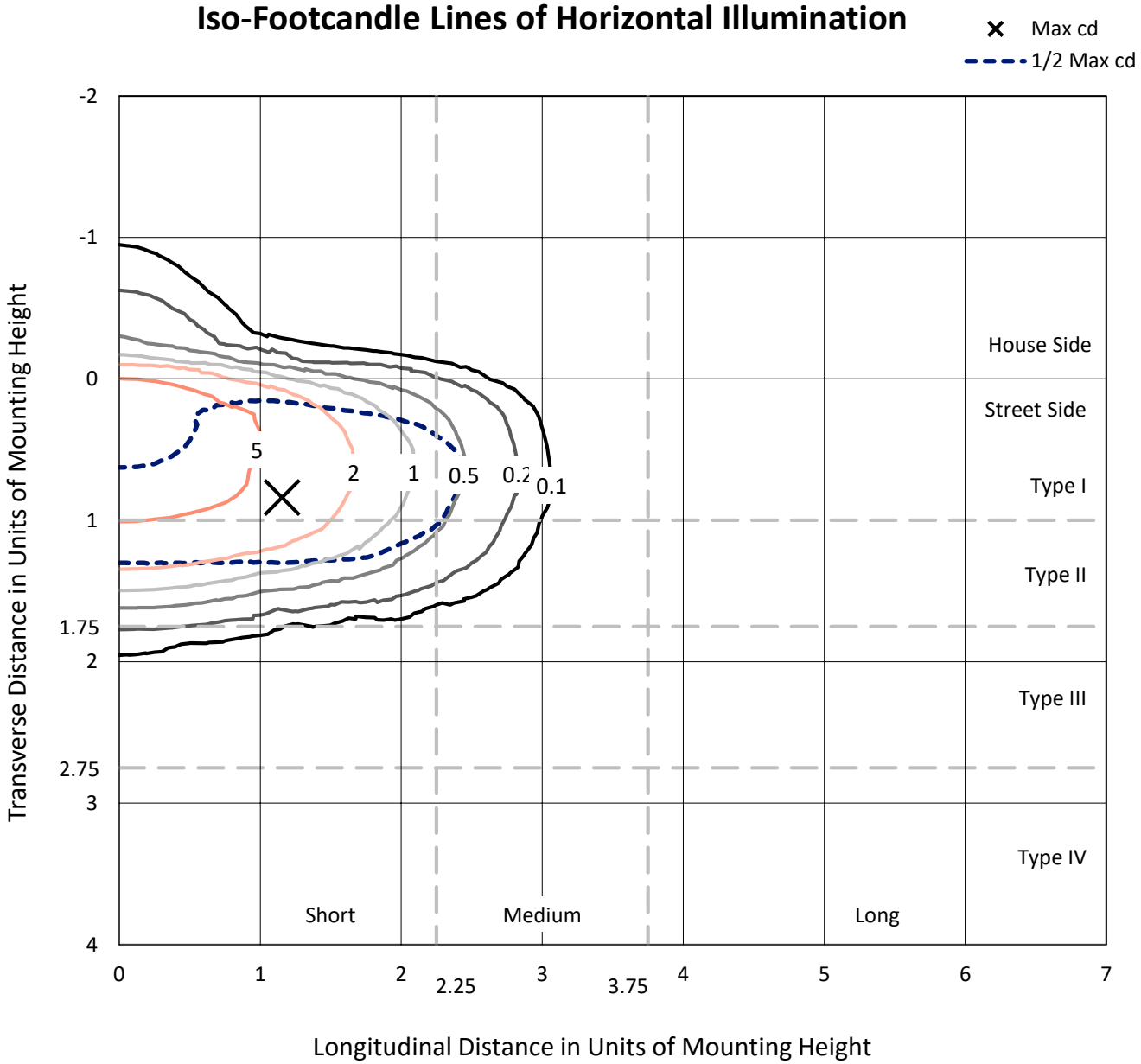
Input Watts (W):	166
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P324967
CATALOG NUMBER: GLEON-SA3C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



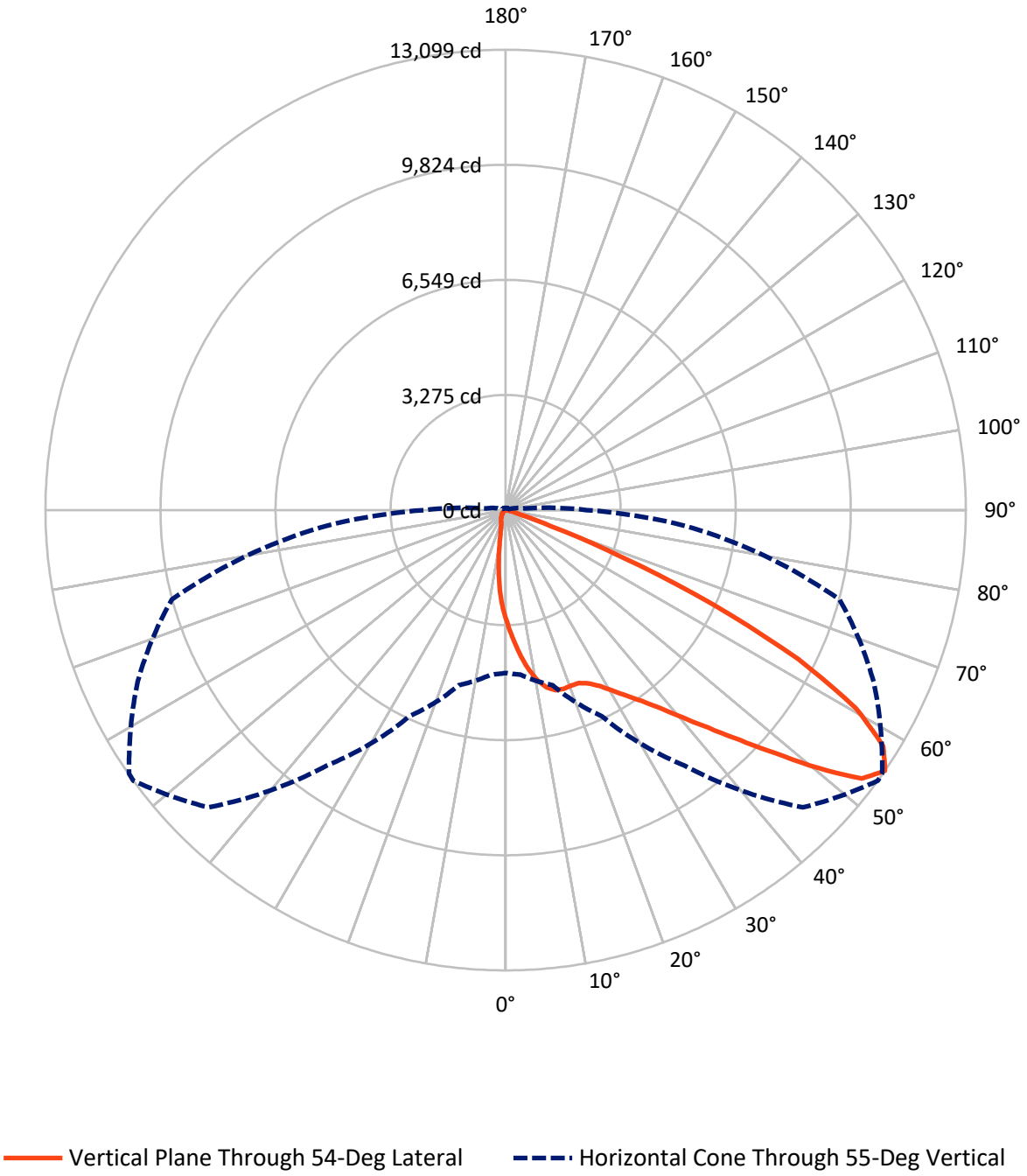
Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P324967
CATALOG NUMBER: GLEON-SA3C-830-U-AFL-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

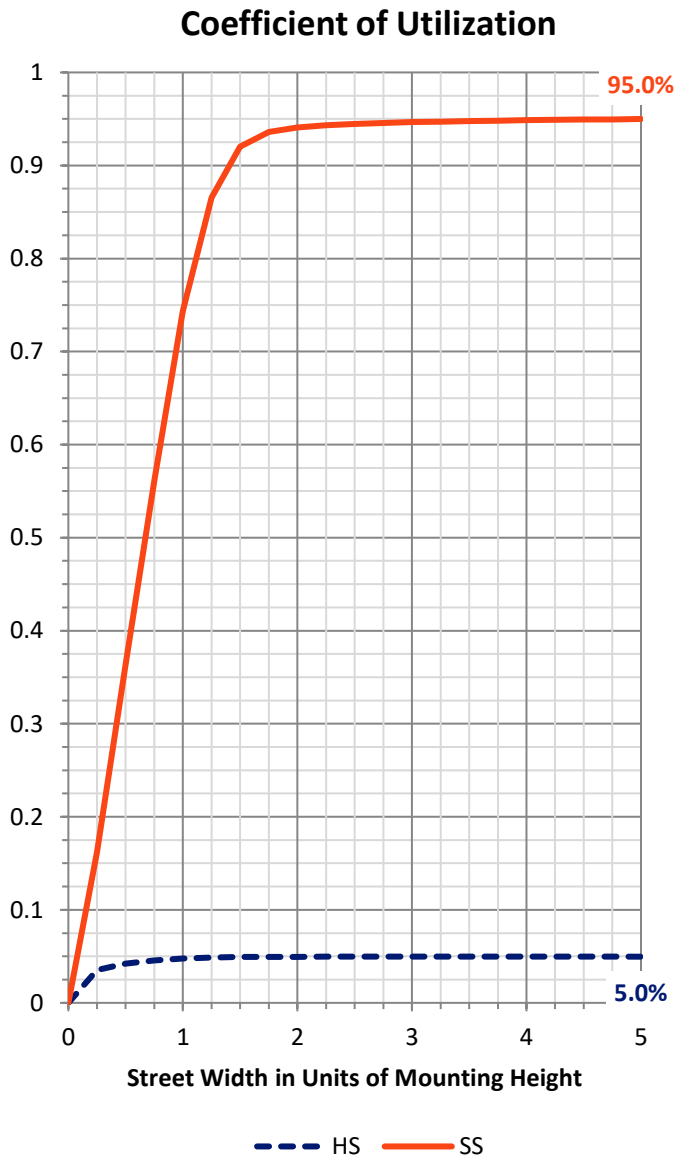
REPORT NUMBER: P324967
CATALOG NUMBER: GLEON-SA3C-830-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.8	0.0	700.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13345.2	0.0	13345.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	14046.0	0.0	14046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	2.1
10°-20°	794.5	5.7
20°-30°	1356.4	9.7
30°-40°	2176.8	15.5
40°-50°	3478.6	24.8
50°-60°	3727.4	26.5
60°-70°	1913.8	13.6
70°-80°	289.9	2.1
80°-90°	18.9	0.1
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°	14046.0	100.0
0°-180°	14046.0	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

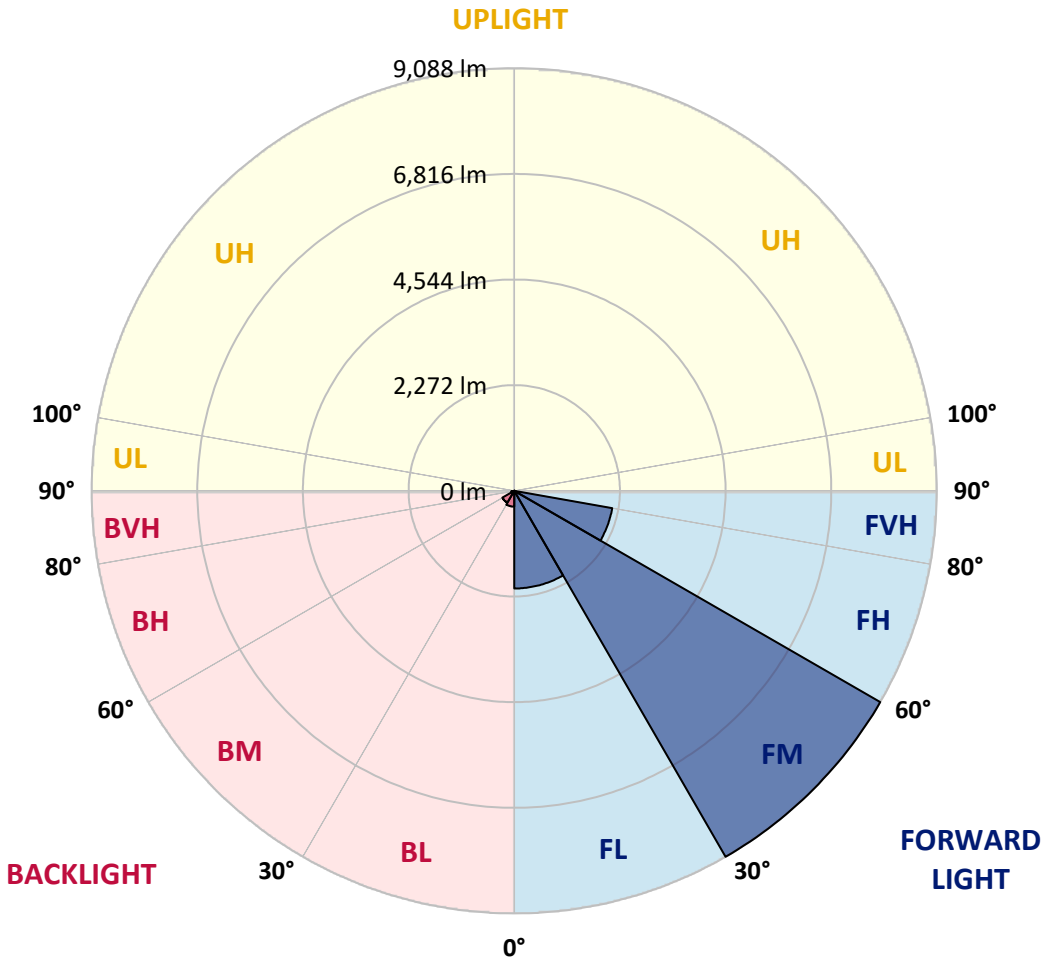
Scaled Data Report

REPORT NUMBER: P324967
CATALOG NUMBER: GLEON-SA3C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2099.6	14.9			
FM	(30°-60°)	9088.4	64.7			
FH	(60°-80°)	2139.1	15.2			G2/5000
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	341.0	2.4	B1/500		
BM	(30°-60°)	294.5	2.1	B1/1000		
BH	(60°-80°)	64.6	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P324967
CATALOG NUMBER: GLEON-SA3C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7
2.5°	3947.6	3888.8	3890.6	3863.9	3766.3	3689.8	3610.4	3591.6	3467.8	3338.0	3213.1
5°	4630.0	4587.0	4576.7	4525.1	4389.2	4245.5	4091.4	4055.6	3813.6	3547.9	3286.5
7.5°	4980.7	4981.3	4972.8	4954.0	4869.0	4729.5	4541.5	4503.9	4174.5	3776.0	3362.9
10°	4878.7	4901.8	4949.1	5011.6	5076.5	5058.9	4917.6	4883.6	4525.7	4017.4	3447.8
12.5°	4641.0	4644.0	4696.8	4799.3	4986.1	5177.8	5180.2	5168.7	4861.2	4269.7	3541.2
15°	4522.7	4534.2	4553.6	4619.7	4796.9	5103.8	5323.4	5339.8	5168.7	4537.8	3640.7
17.5°	4600.3	4616.7	4600.3	4608.2	4710.7	4986.7	5348.2	5390.1	5437.4	4802.9	3734.7
20°	4810.8	4826.0	4796.9	4764.7	4784.7	4952.8	5330.7	5387.1	5647.9	5038.3	3813.6
22.5°	5094.7	5100.8	5056.5	5003.7	4989.1	5068.0	5345.2	5403.4	5816.5	5251.2	3863.3
25°	5407.1	5412.5	5357.3	5296.7	5262.1	5294.3	5464.7	5508.4	5965.1	5454.4	3891.8
27.5°	5747.4	5752.2	5683.1	5608.5	5568.4	5569.6	5661.8	5708.6	6123.5	5686.1	3914.9
30°	6107.1	6104.7	6041.0	5937.2	5886.3	5885.1	5945.7	5993.0	6352.7	5983.3	3946.4
32.5°	6511.1	6506.2	6415.8	6287.2	6229.6	6238.1	6292.1	6319.4	6637.2	6300.0	4002.8
35°	7043.0	7029.1	6892.6	6733.1	6626.9	6623.9	6669.4	6691.2	7000.0	6683.3	4096.9
37.5°	7733.3	7720.6	7535.6	7303.9	7154.6	7098.8	7152.8	7180.7	7517.4	7175.3	4247.9
40°	8413.9	8401.2	8291.4	8079.1	7849.2	7715.1	7757.6	7787.3	8163.4	7772.2	4438.4
42.5°	8883.4	8894.3	8932.5	8950.1	8734.8	8453.3	8472.8	8503.7	8842.2	8410.3	4656.1
45°	9007.2	9030.8	9246.8	9670.8	9751.4	9531.8	9328.6	9345.6	9531.8	9048.4	4873.9
47.5°	8635.3	8679.0	9095.7	9884.3	10567.3	10722.6	10338.0	10315.6	10193.6	9564.6	5028.6
50°	7790.3	7830.4	8370.2	9536.7	10814.8	11859.3	11547.5	11481.4	10774.1	9873.4	5083.2
52.5°	6567.5	6616.0	7054.6	8442.4	10348.3	12366.4	12692.8	12637.6	11200.0	9897.6	5092.3
55°	4637.9	4696.8	5160.8	6470.4	8870.1	11963.0	13098.6	13082.2	11553.6	9833.3	5111.7
57.5°	2606.5	2648.9	3149.4	4147.8	6496.5	10419.9	12674.6	12783.1	11767.1	9721.7	5140.8
60°	1157.4	1168.9	1427.9	2064.8	3803.3	7963.2	11460.8	11644.0	11583.9	9572.5	5189.9
62.5°	641.8	632.1	632.1	858.3	1652.9	4929.7	9345.6	9648.3	10802.0	9396.0	5192.4
65°	502.9	493.8	467.7	471.3	629.6	2187.9	6471.6	7009.7	9317.1	8878.6	5017.7
67.5°	426.4	418.5	392.5	382.1	391.2	721.8	3555.8	4114.5	7069.7	7533.8	4346.2
70°	360.3	354.9	341.5	328.8	305.7	356.7	1360.6	1740.3	4356.5	5011.6	2966.8
72.5°	289.9	287.5	292.4	281.5	253.6	237.8	465.2	563.5	1956.8	2236.5	1222.3
75°	249.9	248.7	251.1	240.2	208.7	165.6	236.6	258.4	552.0	547.1	247.5
77.5°	162.6	164.4	208.1	203.2	179.5	110.4	122.5	132.2	167.4	125.6	75.2
80°	103.7	102.5	105.5	168.6	161.4	84.3	61.3	64.3	80.7	61.9	36.4
82.5°	63.1	61.9	69.2	78.9	81.3	58.8	37.6	38.2	50.3	40.0	19.4
85°	5.5	7.3	41.9	38.8	27.9	18.2	18.2	19.4	26.7	23.7	10.9
87.5°	0.0	0.0	7.3	10.9	6.1	6.7	6.7	7.3	10.3	10.3	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P324967
CATALOG NUMBER: GLEON-SA3C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7	3145.7
2.5°	3148.2	3085.1	2957.7	2835.2	2731.4	2631.4	2517.3	2404.5	2351.7	2330.5	2308.7
5°	3153.6	3023.8	2761.2	2496.7	2222.5	1975.6	1765.2	1549.2	1441.2	1393.9	1372.1
7.5°	3160.9	2963.2	2538.6	2094.5	1652.9	1318.1	1025.7	837.7	756.4	743.7	712.1
10°	3162.1	2889.8	2280.1	1650.5	1108.2	794.6	611.4	514.4	478.6	472.5	462.2
12.5°	3164.5	2803.0	1993.2	1222.3	738.8	531.4	442.2	410.1	400.3	399.7	399.7
15°	3171.8	2712.0	1695.4	880.8	530.8	421.0	388.2	375.5	371.8	373.7	373.0
17.5°	3171.8	2604.7	1403.0	656.3	428.9	378.5	360.3	351.8	350.6	352.4	353.0
20°	3148.8	2474.3	1134.9	510.7	380.3	351.2	334.8	326.9	323.9	325.1	325.7
22.5°	3093.6	2314.1	916.5	422.8	348.2	326.3	308.8	296.6	291.8	292.4	292.4
25°	3007.4	2124.3	717.0	365.8	322.1	299.7	279.0	265.1	262.0	261.4	262.7
27.5°	2897.0	1914.4	570.8	322.1	291.2	269.9	249.3	237.8	235.4	236.0	236.6
30°	2788.5	1696.6	450.1	285.1	256.6	236.6	220.8	215.3	215.3	217.2	217.8
32.5°	2689.0	1487.3	356.1	252.9	225.6	207.5	198.4	197.7	200.8	202.0	202.6
35°	2603.5	1293.8	294.8	228.1	201.4	185.6	182.6	185.0	188.6	191.1	191.7
37.5°	2542.8	1121.0	257.8	207.5	182.6	169.8	169.2	174.1	178.9	184.4	185.6
40°	2517.3	974.8	232.3	189.3	167.4	157.7	155.9	162.6	171.7	179.5	180.8
42.5°	2496.1	855.3	210.5	171.7	155.3	141.3	140.7	149.2	160.1	168.0	169.8
45°	2477.9	759.4	190.5	152.9	139.5	121.3	123.1	134.1	142.5	151.0	152.9
47.5°	2440.3	680.6	168.6	132.8	115.3	103.7	107.4	117.1	123.7	136.5	138.3
50°	2373.0	616.3	146.2	108.6	94.0	89.8	95.2	101.9	110.4	121.3	122.5
52.5°	2327.5	567.8	126.8	91.0	77.6	78.9	84.3	86.7	91.6	95.8	94.6
55°	*2301.4*	*541.1*	*111.0*	*78.9*	*66.1*	*69.8*	*71.0*	*67.9*	*65.5*	*61.3*	*59.4*
57.5°	2298.3	516.8	98.9	68.5	58.2	60.1	55.8	45.5	37.0	32.1	30.9
60°	2293.5	487.1	89.2	57.6	51.6	49.1	40.0	24.9	17.6	16.4	16.4
62.5°	2240.7	441.0	81.9	48.5	43.7	37.0	23.1	11.5	9.7	10.3	10.3
65°	2072.7	376.7	74.6	39.4	34.6	26.7	11.5	6.7	3.6	4.2	4.2
67.5°	1762.1	300.3	66.7	30.3	26.1	17.0	6.7	3.0	0.0	0.0	0.0
70°	1179.8	186.2	56.4	21.2	17.0	10.3	4.9	0.6	0.0	0.0	0.0
72.5°	452.5	100.7	45.5	12.7	10.9	7.3	3.0	0.0	0.0	0.0	0.0
75°	101.9	66.1	31.5	9.1	7.9	4.9	1.2	0.0	0.0	0.0	0.0
77.5°	38.8	47.9	18.2	6.1	5.5	3.0	0.0	0.0	0.0	0.0	0.0
80°	18.8	28.5	8.5	3.6	3.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	10.9	3.6	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	5.5	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.8	0.6	0.6	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

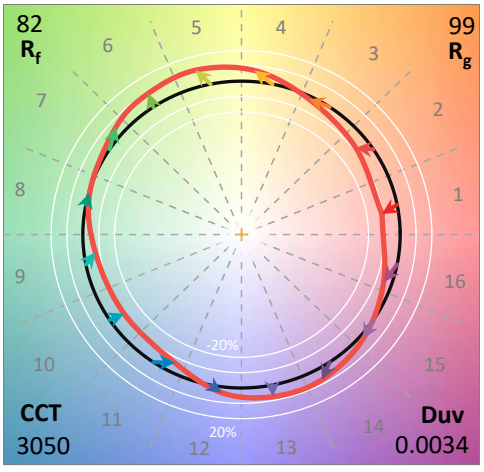
Test Information

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

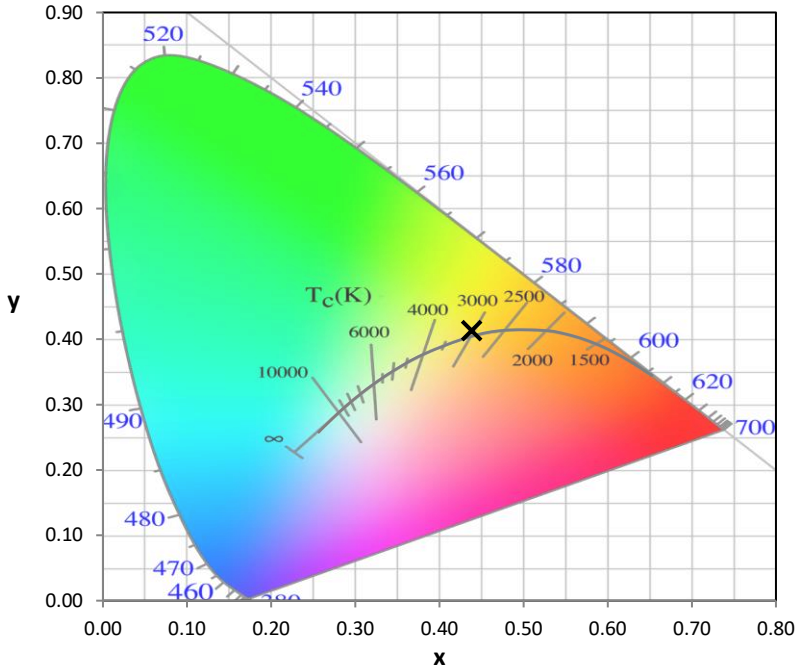
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

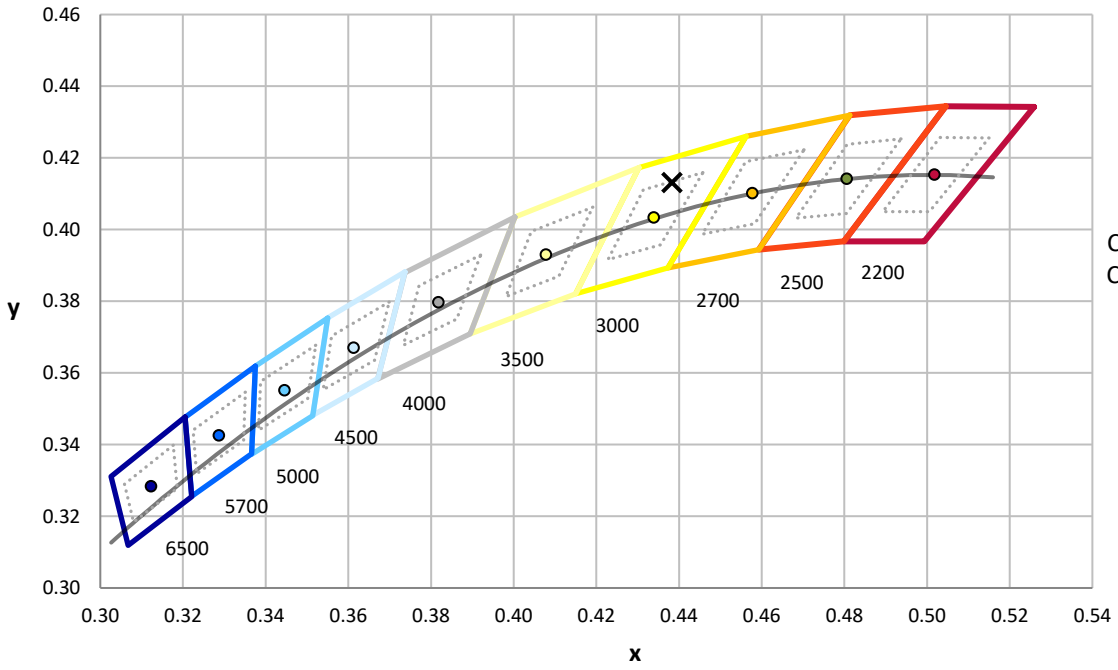
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

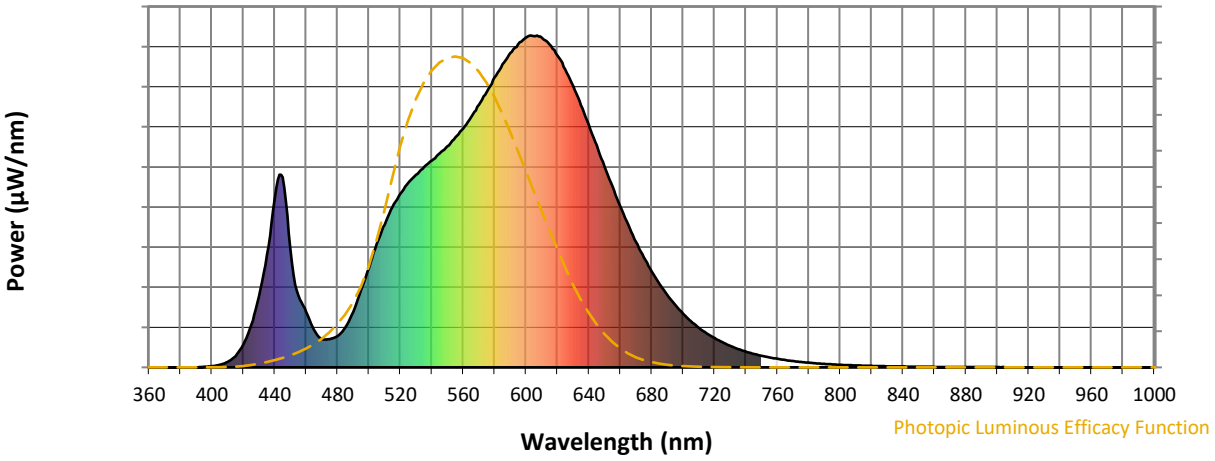


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

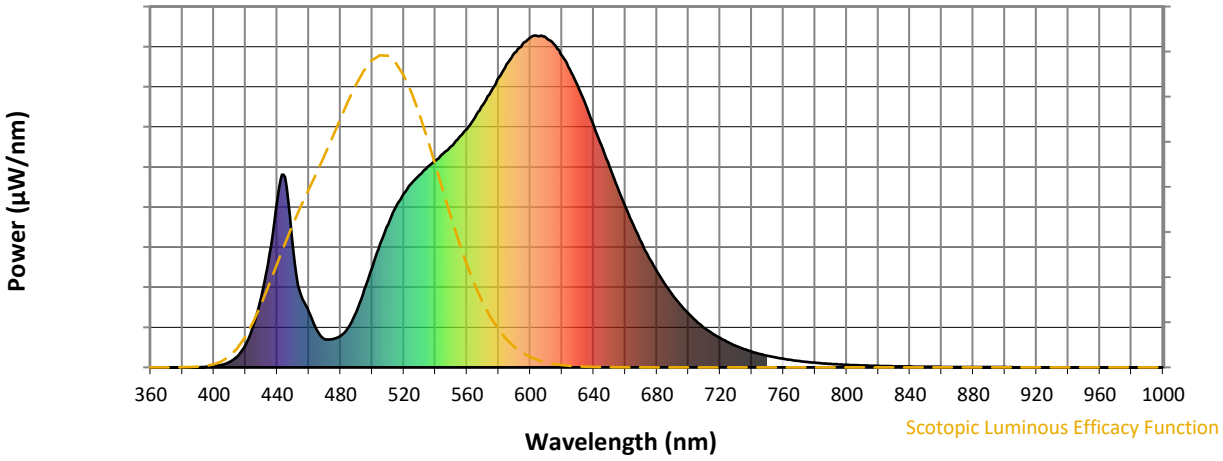


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

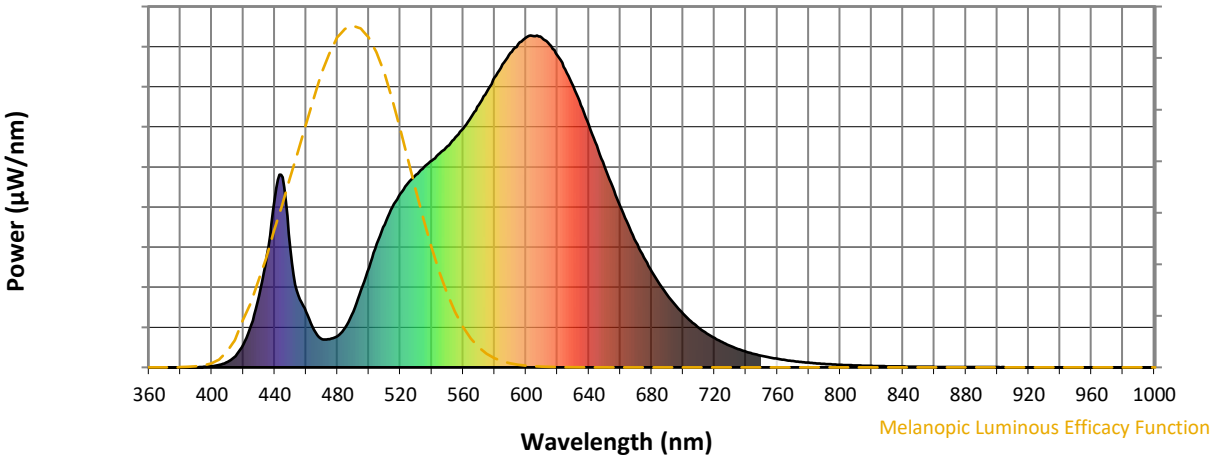


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

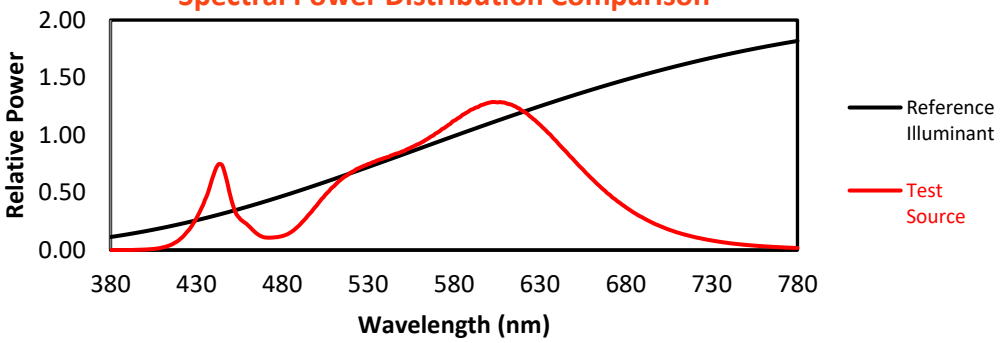
REPORT NUMBER: SP1-2408-195-9

TM-30-18

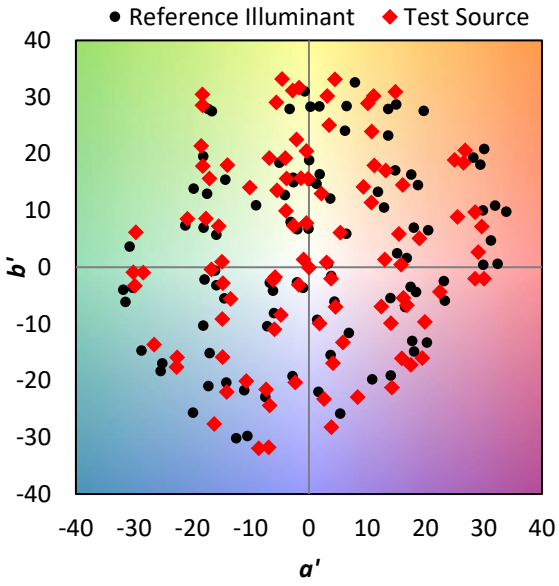
Summary

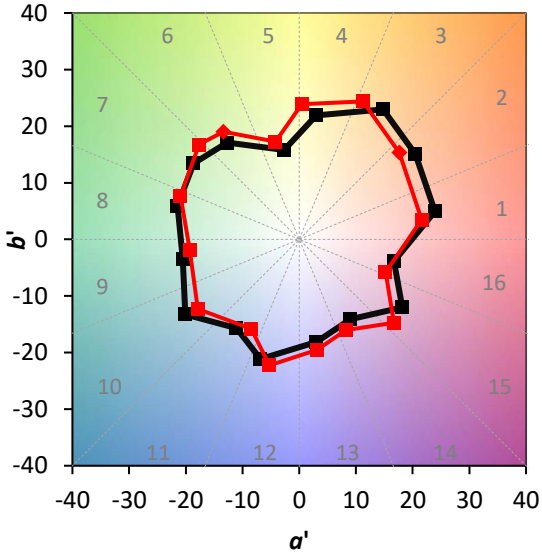
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

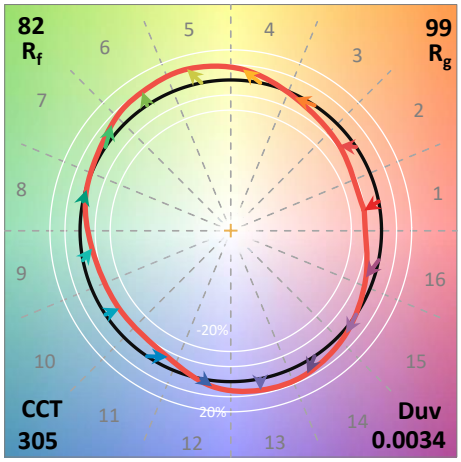
Spectral Power Distribution Comparison

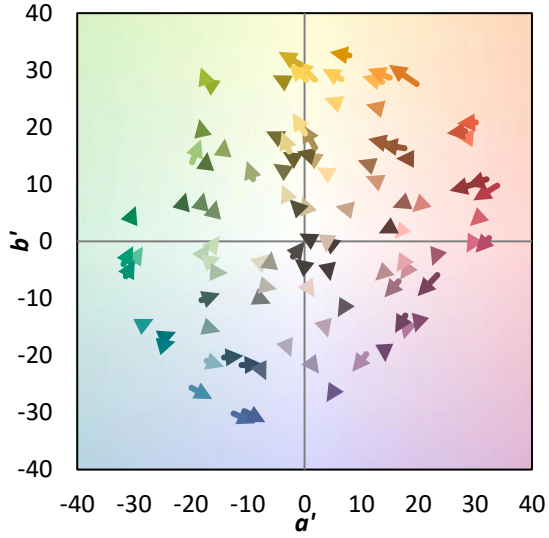


Color Vector Graphics







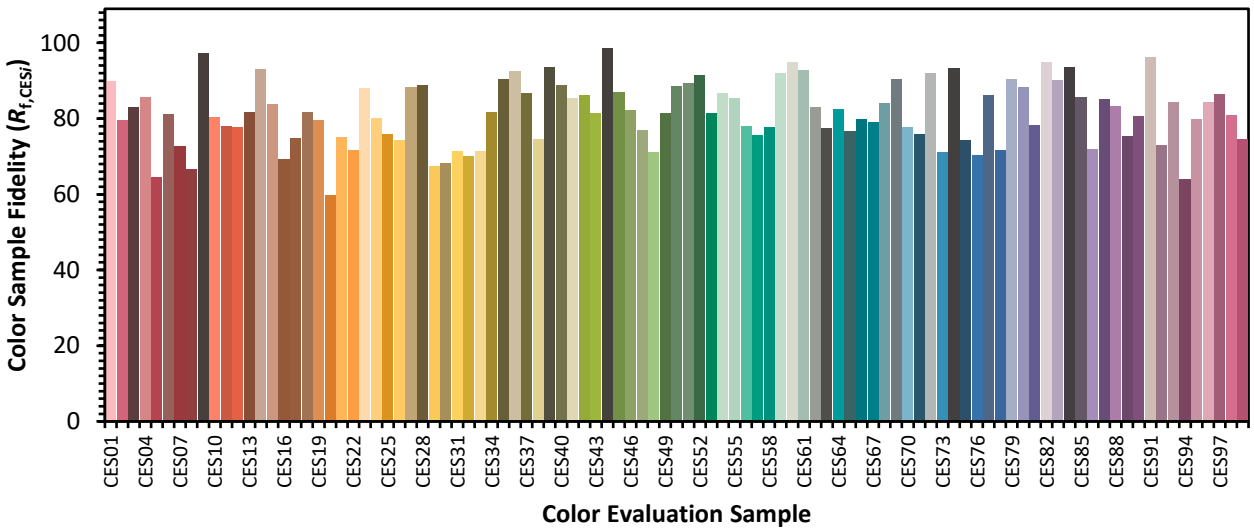


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

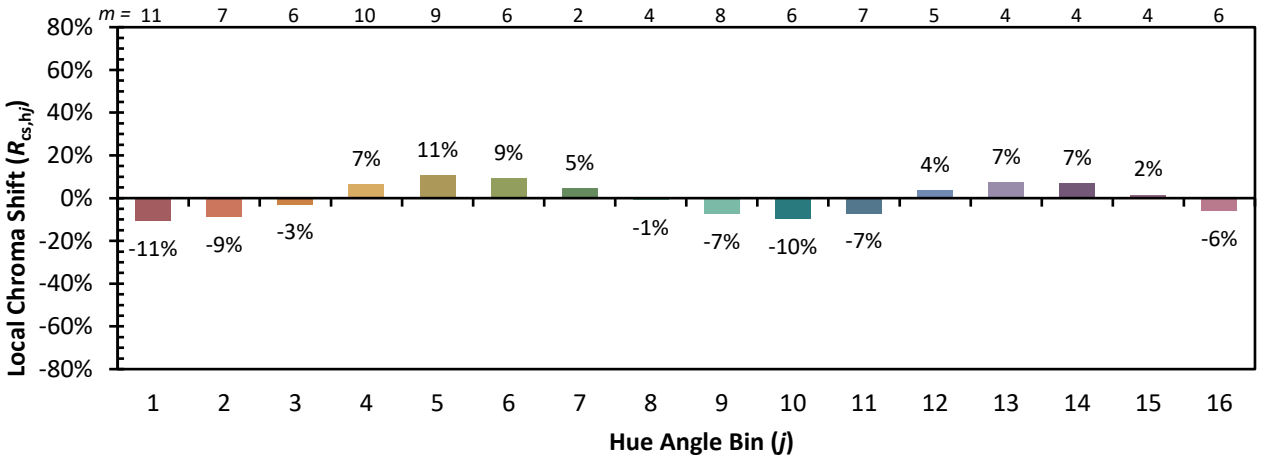
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

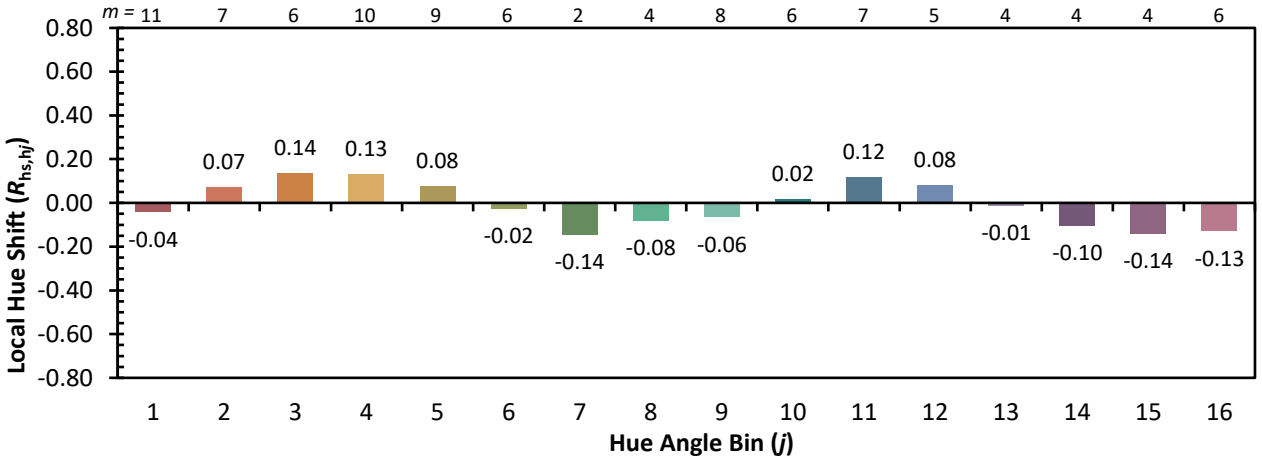


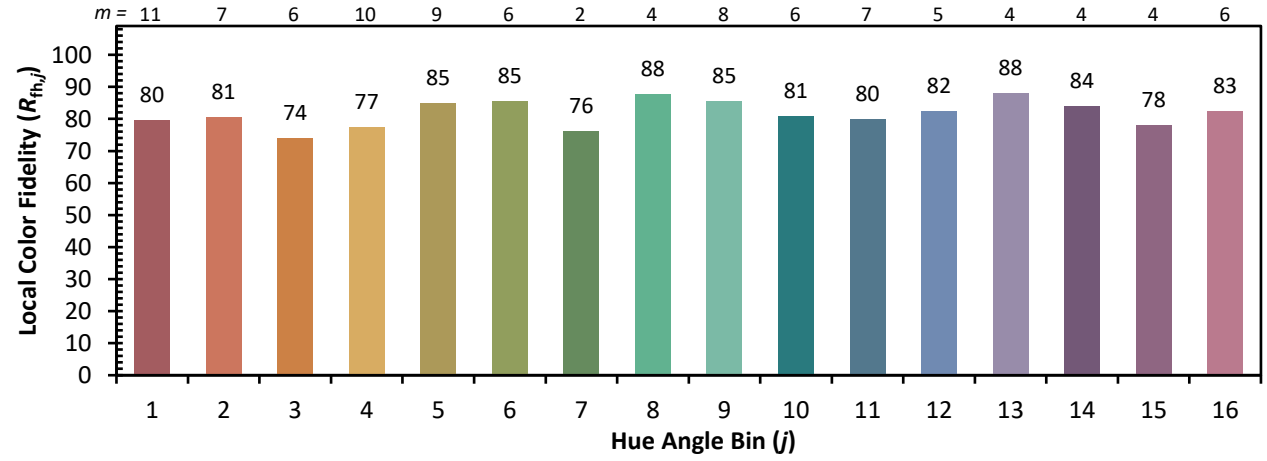
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



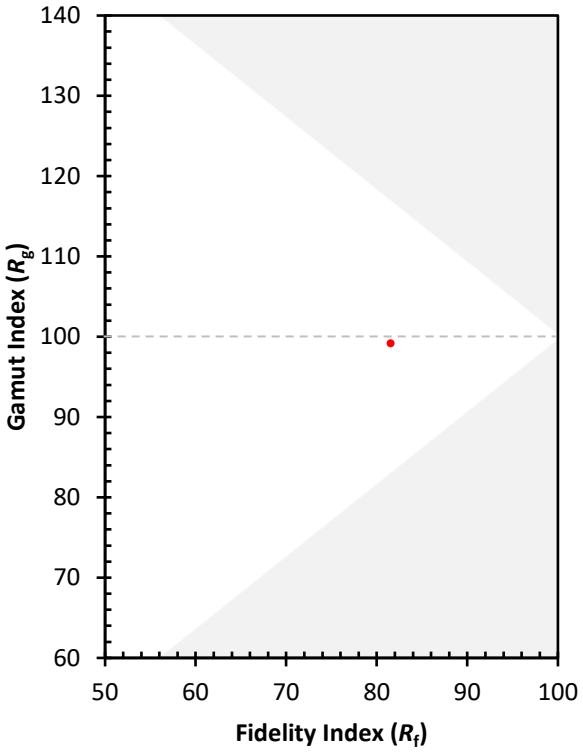


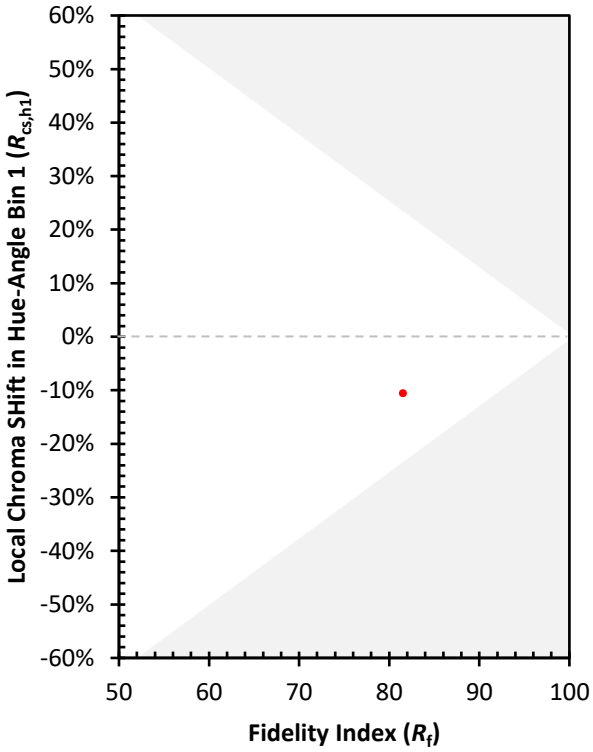


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)