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: P323358

Luminaire Tested: **GLEON-SA4B-830-U-SL2-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:	P323358
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4B-830-U-SL2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15172 lumens
Efficiency:	N/A
Efficacy:	88.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	171
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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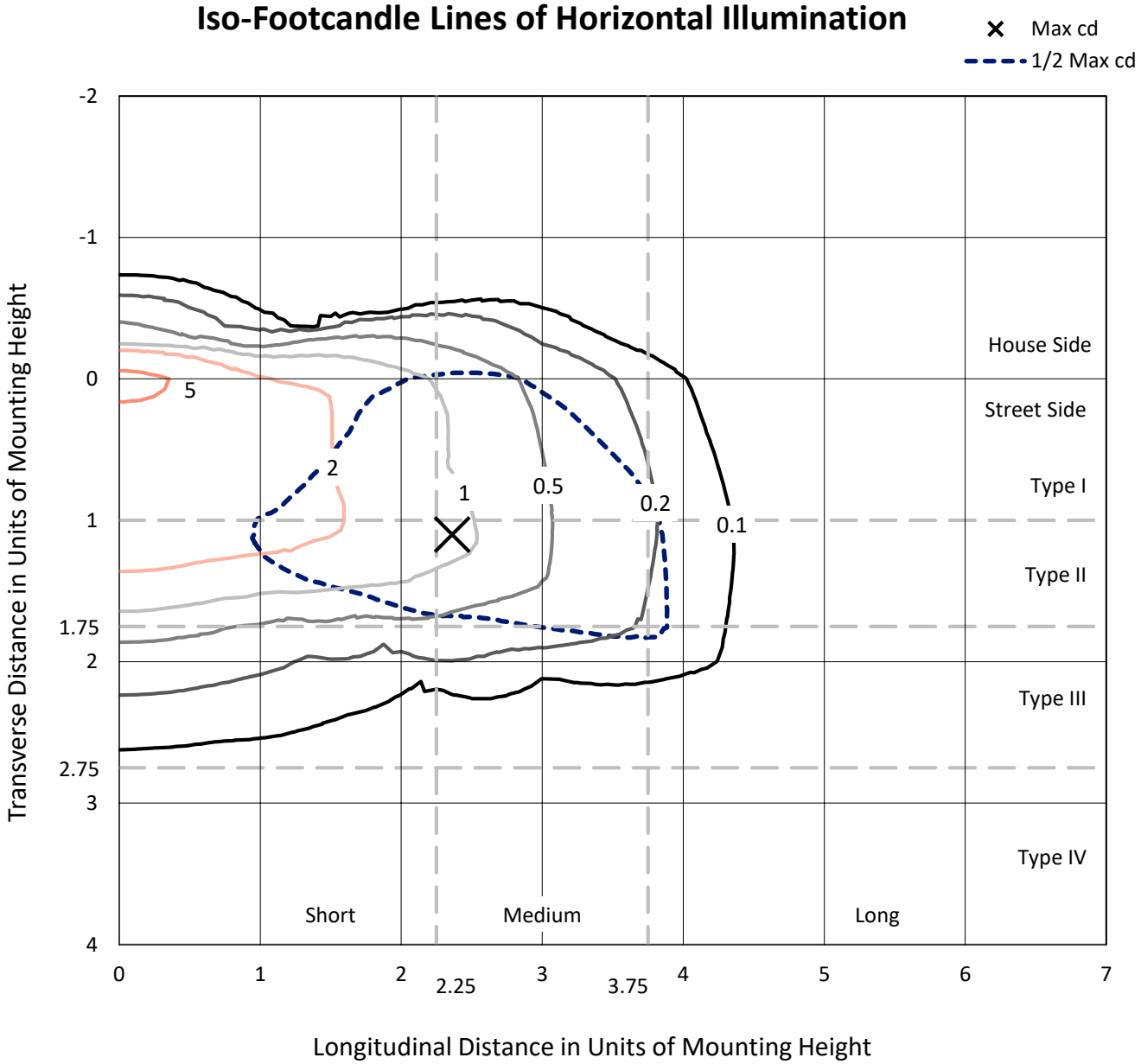
Scaled Data Report

REPORT NUMBER: P323358
CATALOG NUMBER: GLEON-SA4B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Medium - N/A

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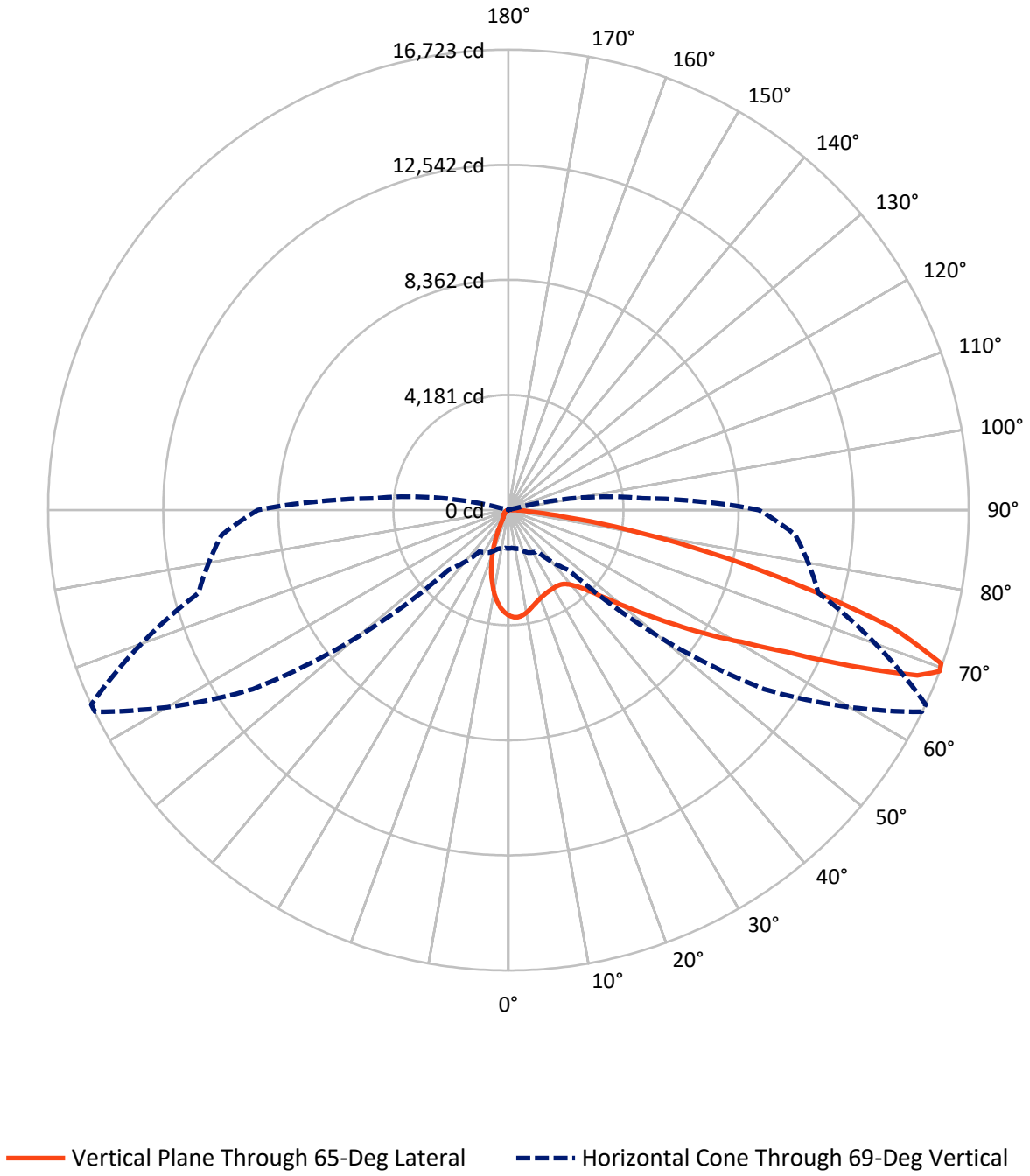
Luminous Intensity Polar Plot



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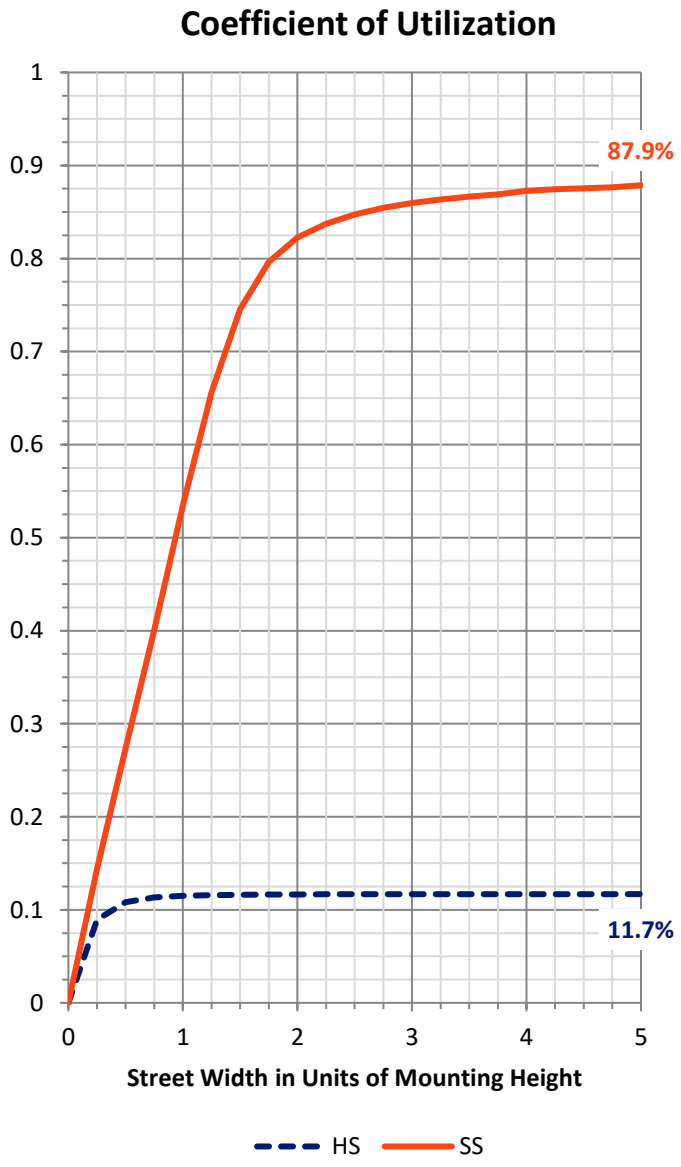
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1788.4	0.0	1788.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13383.6	0.0	13383.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	15172.0	0.0	15172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	2.1
10°-20°	701.8	4.6
20°-30°	972.0	6.4
30°-40°	1355.3	8.9
40°-50°	2106.6	13.9
50°-60°	3381.9	22.3
60°-70°	3825.5	25.2
70°-80°	2246.8	14.8
80°-90°	261.4	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°	15172.0	100.0
0°-180°	15172.0	100.0



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REPORT NUMBER: P323358
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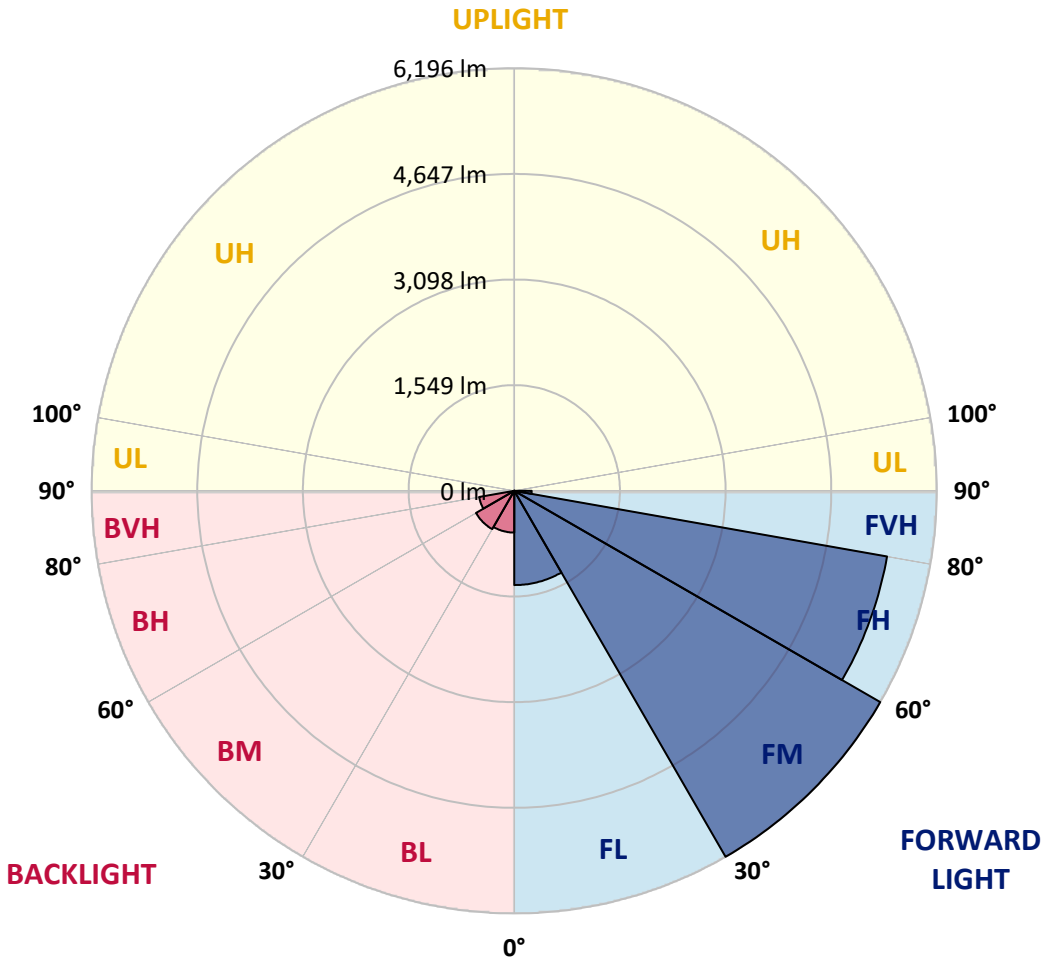
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1382.5	9.1			
FM	(30°-60°)	6195.8	40.8			
FH	(60°-80°)	5549.8	36.6			G3/7500
FVH	(80°-90°)	255.5	1.7			G3/500
BL	(0°-30°)	611.9	4.0	B2/1000		
BM	(30°-60°)	648.1	4.3	B1/1000		
BH	(60°-80°)	522.5	3.4	B2/1000		G2/1000
BVH	(80°-90°)	5.9	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-G3
Type III Medium



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REPORT NUMBER: P323358
CATALOG NUMBER: GLEON-SA4B-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	*3834.0*	3834.0	3834.0
2.5°	3868.0	3858.4	3866.1	3882.8	3891.1	3891.1	3897.5	3889.8	*3892.4*	3873.8	3846.8
5°	3626.0	3611.2	3632.4	3679.3	3737.0	3786.5	3859.7	3898.2	*3902.0*	3902.7	3871.2
7.5°	3365.3	3351.9	3383.3	3438.5	3513.0	3604.8	3732.6	3844.3	*3850.7*	3911.0	3887.9
10°	3153.5	3143.8	3180.4	3239.5	3326.8	3429.5	3586.2	3741.5	*3760.2*	3893.7	3885.4
12.5°	2985.3	2977.6	3012.2	3080.3	3169.5	3283.2	3446.9	3627.3	*3652.3*	3854.5	3872.5
15°	2862.7	2861.4	2890.3	2955.7	3054.6	3160.5	3328.1	3521.3	*3550.2*	3812.2	3870.6
17.5°	2798.5	2800.4	2821.6	2877.4	2962.2	3067.4	3227.9	3432.1	*3463.6*	3774.3	3880.2
20°	2792.0	2794.0	2805.5	2837.0	2905.7	2998.8	3146.4	3357.0	*3389.7*	3746.0	3895.6
22.5°	2848.5	2847.2	2850.5	2847.2	2885.8	2956.4	3092.5	3299.2	*3337.1*	3727.4	3907.8
25°	2957.0	2955.1	2953.8	2930.1	2904.4	2942.3	3070.0	3266.5	*3302.4*	3713.9	3914.9
27.5°	3107.9	3106.6	3104.7	3065.5	2988.5	2964.7	3072.6	3254.3	*3284.4*	3703.0	3913.6
30°	3306.3	3315.3	3312.7	3258.1	3138.1	3033.4	3099.5	3247.9	*3274.2*	3681.8	3900.1
32.5°	3539.3	3557.3	3571.4	3513.0	3362.8	3169.5	3161.8	3254.9	*3274.2*	3665.8	3875.7
35°	3781.3	3804.5	3856.5	3835.9	3638.2	3374.3	3269.0	3297.3	*3313.3*	3674.8	3864.2
37.5°	4019.5	4047.1	4160.1	4219.8	3999.0	3645.2	3436.0	3401.9	*3410.3*	3729.3	3877.0
40°	4296.2	4338.0	4509.4	4605.7	4429.8	4008.0	3685.7	3581.7	*3584.9*	3849.4	3936.7
42.5°	4659.6	4702.6	4888.1	5039.0	4915.1	4466.4	4024.7	3856.5	*3853.3*	4074.1	4077.3
45°	5102.6	5147.5	5339.5	5507.0	5451.2	5009.5	4458.7	4257.7	*4253.9*	4428.5	4343.7
47.5°	5604.6	5648.9	5820.3	5993.0	6053.4	5643.8	5011.4	4805.3	*4796.3*	4920.9	4755.3
50°	6035.4	6064.3	6222.2	6454.6	6726.8	6423.2	5699.0	5500.6	*5491.0*	5575.1	5359.4
52.5°	6192.0	6208.7	6369.2	6694.7	7373.9	7478.6	6602.3	6346.8	*6339.7*	6376.3	6163.8
55°	5874.9	5905.1	6102.2	6584.9	7724.5	8671.4	7742.5	7394.5	*7341.2*	7262.2	7004.8
57.5°	5010.8	5058.9	5270.8	5912.8	7560.8	9617.7	9418.1	8579.6	*8501.3*	8018.5	7688.5
60°	3754.4	3813.4	3989.4	4682.1	6687.0	9954.8	11249.0	9900.2	*9723.6*	8620.7	8317.0
62.5°	2576.3	2605.9	2725.3	3176.6	4924.7	9402.7	12780.8	11668.9	*11346.6*	9275.5	8996.9
65°	1967.7	1978.0	2026.8	2182.1	2932.6	7637.8	13390.1	14002.5	*13612.9*	10058.8	9702.5
67.5°	1585.7	1577.4	1644.8	1866.9	1963.9	4659.6	12679.4	16210.4	*16028.0*	11105.9	10412.5
69°	*1398.3*	*1386.7*	*1455.4*	*1713.5*	*1844.5*	*3080.3*	*11335.1*	*16711.8*	*16723.3*	*11658.6*	*10461.3*
70°	1258.3	1266.0	1334.1	1622.3	1804.0	2417.8	10051.1	16584.0	*16675.2*	11865.3	10168.6
72.5°	840.4	860.9	997.7	1346.9	1734.7	1829.7	6068.8	14231.1	*14581.6*	11399.9	8724.1
75°	473.8	489.2	651.6	1015.6	1634.5	1742.4	3205.5	10484.4	*10823.4*	9533.0	6727.5
77.5°	232.4	240.7	368.5	655.5	1366.8	1660.2	1818.1	7121.6	*7508.8*	6222.2	3805.1
80°	98.2	102.7	184.3	404.5	977.1	1584.4	1350.1	4382.9	*4431.0*	2437.7	1013.7
82.5°	37.9	39.2	77.7	252.3	620.8	1235.2	1129.3	2078.1	*2028.1*	459.0	231.1
85°	4.5	5.1	28.2	151.5	345.4	635.6	917.4	895.6	*828.8*	91.2	118.8
87.5°	0.0	0.0	1.9	46.2	102.7	297.9	477.0	371.7	*335.1*	29.5	61.6
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: P323358
CATALOG NUMBER: GLEON-SA4B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0	3834.0
2.5°	3824.4	3817.9	3783.3	3733.2	3685.7	3626.6	3570.1	3536.1	3509.1	3491.2	3512.4
5°	3834.6	3806.4	3701.1	3566.3	3434.0	3285.1	3146.4	3028.9	2982.7	2931.3	2954.5
7.5°	3831.4	3778.1	3588.7	3348.6	3106.0	2854.9	2617.4	2434.4	2339.4	2246.3	2270.1
10°	3815.4	3725.5	3438.5	3082.9	2719.5	2358.7	2021.6	1765.5	1622.3	1492.6	1511.3
12.5°	3780.1	3654.9	3261.3	2778.6	2292.6	1816.8	1422.0	1094.0	918.1	840.4	850.0
15°	3758.9	3586.2	3073.9	2470.4	1836.7	1265.4	869.3	646.5	566.2	540.6	543.8
17.5°	3748.6	3520.1	2880.0	2117.9	1370.7	805.7	561.7	495.6	478.3	473.8	475.1
20°	3738.3	3453.3	2680.3	1769.3	944.4	541.8	461.6	442.3	435.9	430.1	431.4
22.5°	3721.0	3389.1	2465.9	1416.2	636.9	439.8	416.0	397.4	383.9	376.9	378.1
25°	3699.8	3321.7	2247.0	1054.8	464.8	392.3	369.8	343.5	327.4	314.6	315.2
27.5°	3665.8	3238.9	2021.0	767.8	390.3	351.2	321.0	292.1	265.1	250.4	250.4
30°	3618.3	3145.1	1770.0	549.5	349.9	310.7	274.1	238.2	209.3	195.8	194.5
32.5°	3565.6	3047.5	1516.4	416.7	317.8	272.8	231.1	193.2	167.6	156.6	156.0
35°	3520.7	2942.3	1263.4	349.2	285.7	236.3	190.7	158.6	138.0	129.0	128.4
37.5°	3491.8	2837.0	1016.9	312.0	256.8	202.2	159.9	131.0	116.2	109.1	108.5
40°	3487.3	2758.7	791.6	283.8	229.8	172.1	133.5	111.1	97.6	89.9	89.2
42.5°	3545.7	2713.7	607.3	260.0	202.2	145.7	113.6	95.0	80.9	73.2	72.5
45°	3699.2	2727.8	467.4	238.8	174.6	123.3	96.3	79.0	66.1	60.3	59.1
47.5°	3979.1	2825.4	371.7	217.6	148.3	104.6	82.2	65.5	54.6	48.8	48.1
50°	4477.3	3054.6	310.7	194.5	123.9	89.2	68.1	53.3	44.3	39.2	38.5
52.5°	5138.5	3462.9	277.3	172.1	102.7	75.8	55.9	42.4	34.7	30.8	30.2
55°	5867.8	3957.3	255.5	147.7	84.1	62.9	44.3	33.4	27.0	23.8	22.5
57.5°	6579.8	4385.5	235.0	123.9	70.0	51.4	35.3	26.3	21.2	18.0	17.3
60°	7234.0	4779.0	211.2	99.5	57.1	40.4	27.6	20.5	16.7	13.5	13.5
62.5°	7934.4	5083.3	178.5	77.7	46.9	30.8	22.5	18.6	13.5	11.6	10.9
65°	8676.6	5309.3	140.0	60.3	36.6	23.1	18.6	19.3	10.9	8.3	7.7
67.5°	9224.8	5264.4	103.4	47.5	28.2	18.0	18.0	20.5	9.6	6.4	5.8
69°	*9104.1*	*4899.1*	*86.7*	*41.1*	*24.4*	*15.4*	*16.7*	*20.5*	*9.0*	*5.8*	*5.1*
70°	8754.2	4494.6	76.4	36.6	21.8	14.1	16.0	19.9	8.3	5.8	5.1
72.5°	7290.5	3385.2	59.7	27.6	17.3	11.6	13.5	17.3	8.3	5.8	4.5
75°	5483.9	2166.7	45.6	19.9	12.8	9.0	10.3	12.8	8.3	5.1	4.5
77.5°	2984.0	781.3	32.7	13.5	9.0	7.1	7.1	9.6	7.7	3.9	2.6
80°	767.2	196.5	20.5	9.0	7.1	5.1	4.5	6.4	4.5	0.6	0.0
82.5°	189.4	44.3	10.9	6.4	5.1	1.9	1.9	3.2	1.9	0.0	0.0
85°	104.0	21.8	7.1	4.5	2.6	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	53.3	6.4	1.9	1.3	0.6	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

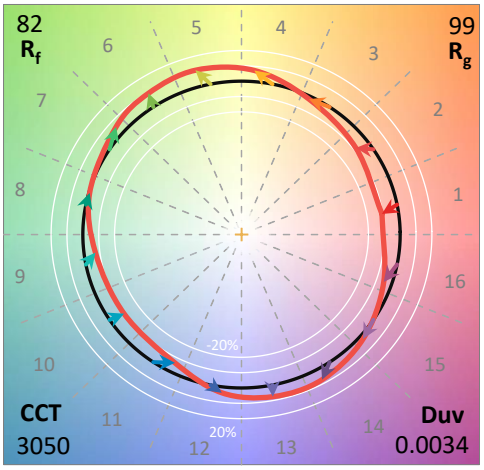
Test Information

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

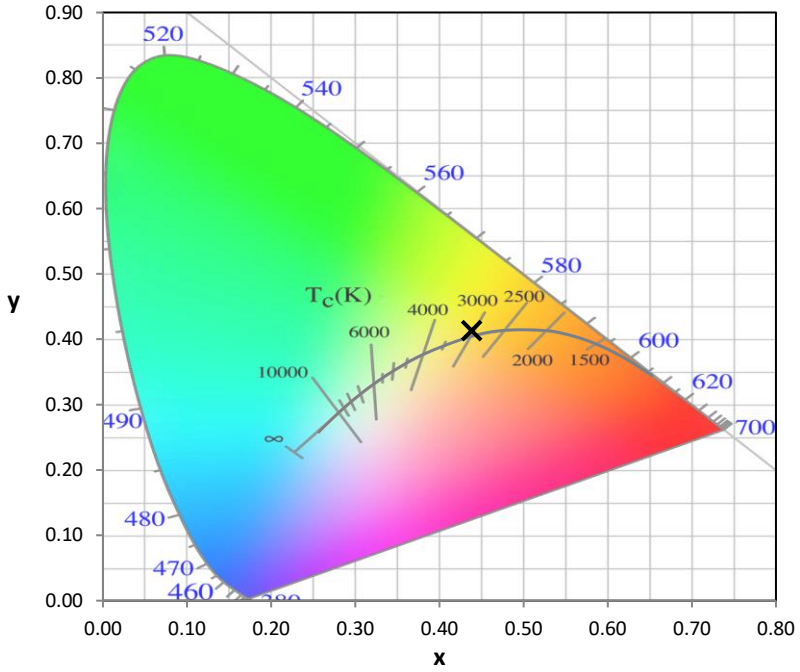
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

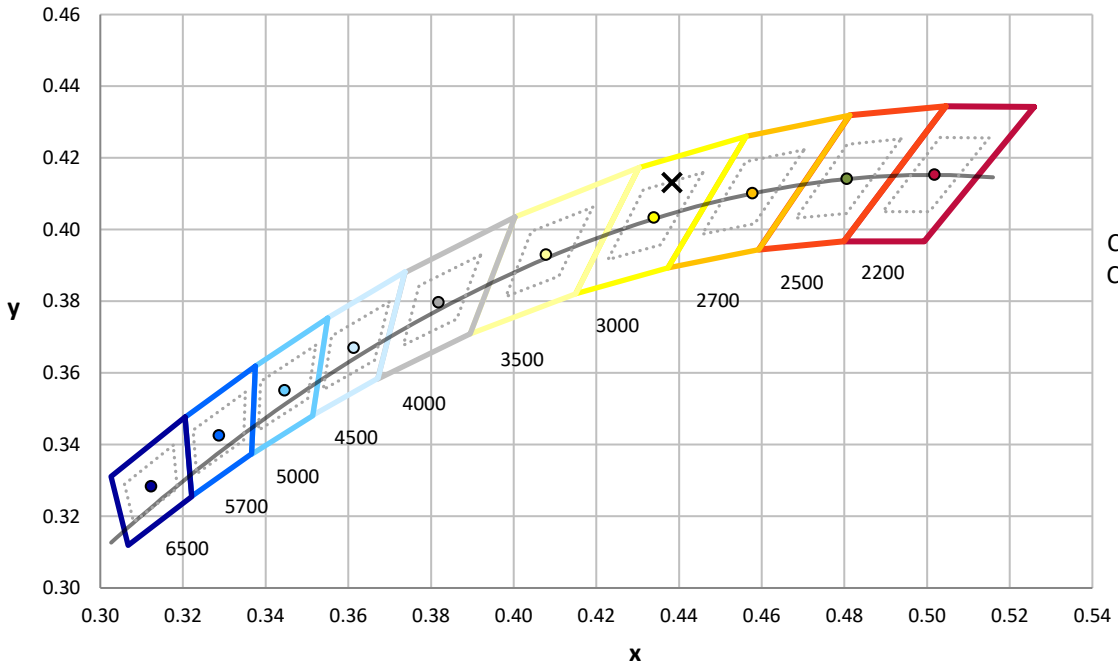
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

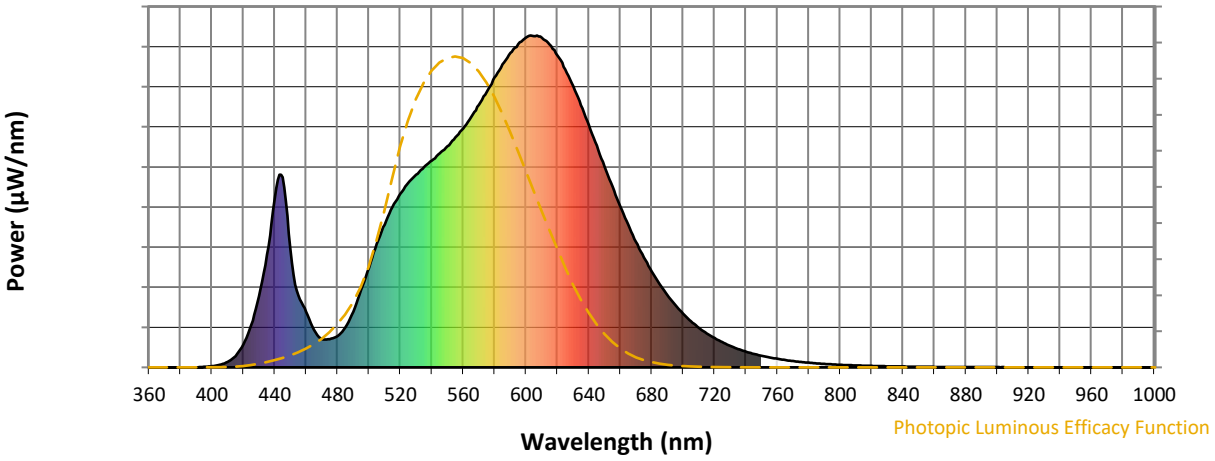


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

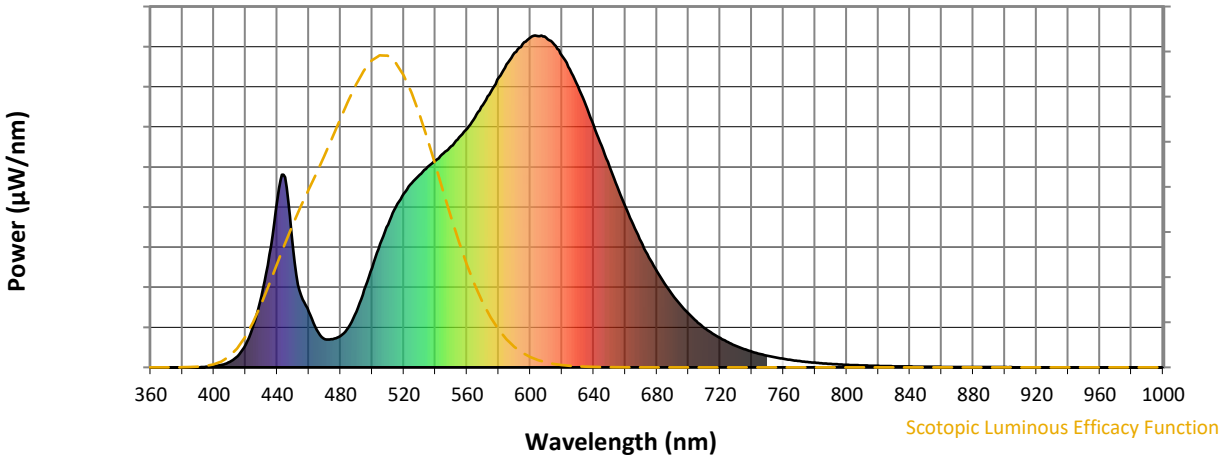


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

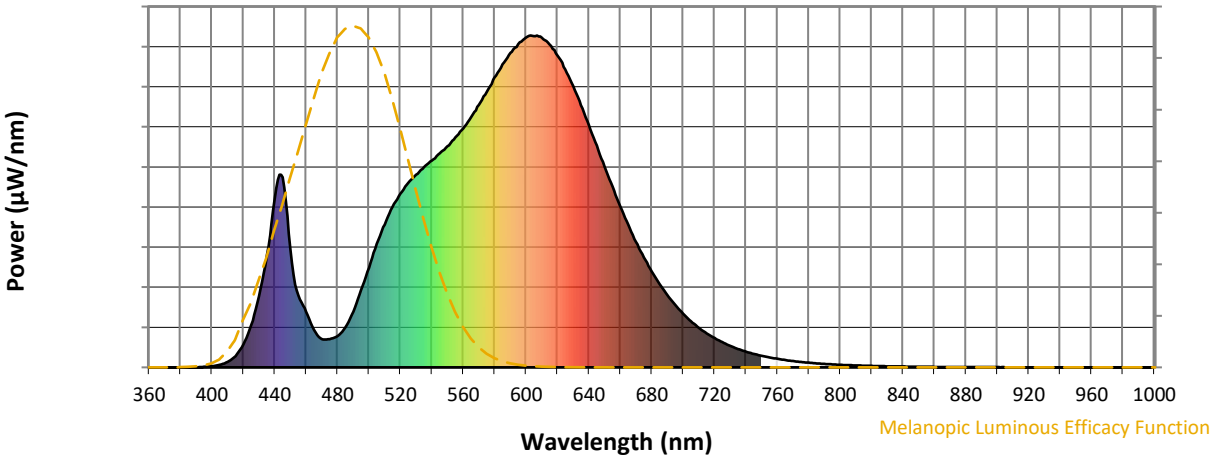


Scotopic Lumens: NR **S/P: 1.27**

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			

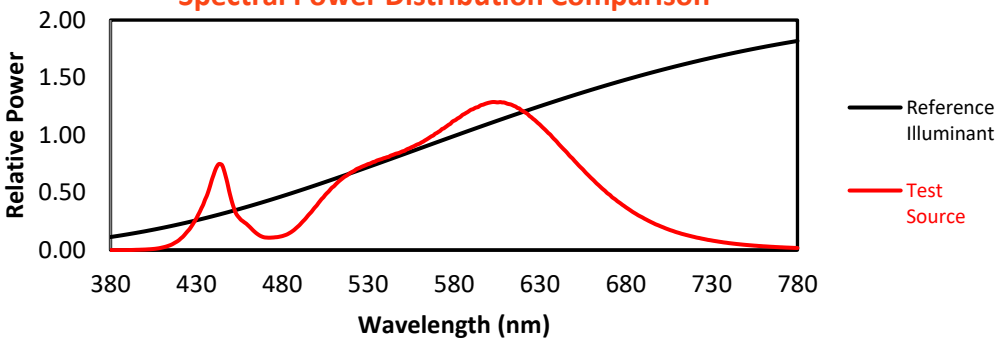
REPORT NUMBER: SP1-2408-195-9

TM-30-18

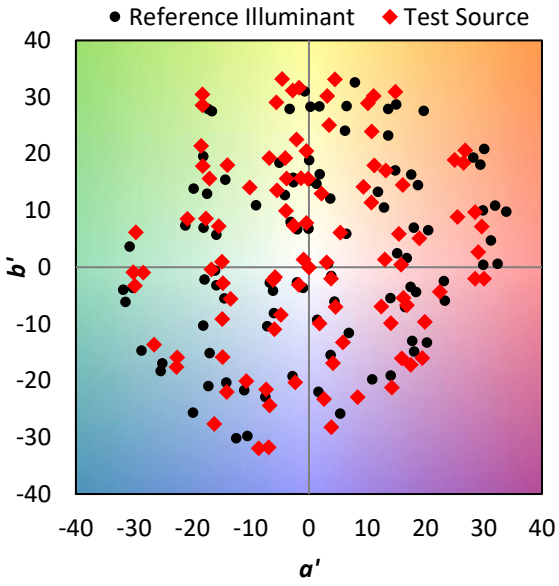
Summary

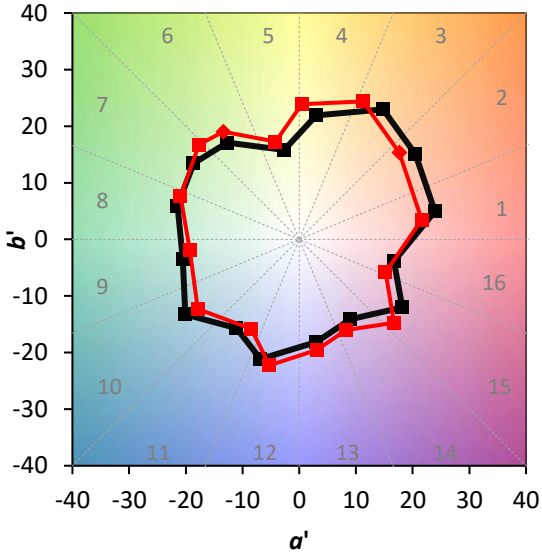
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

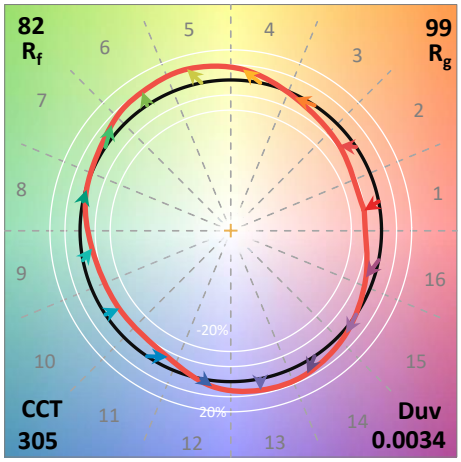
Spectral Power Distribution Comparison

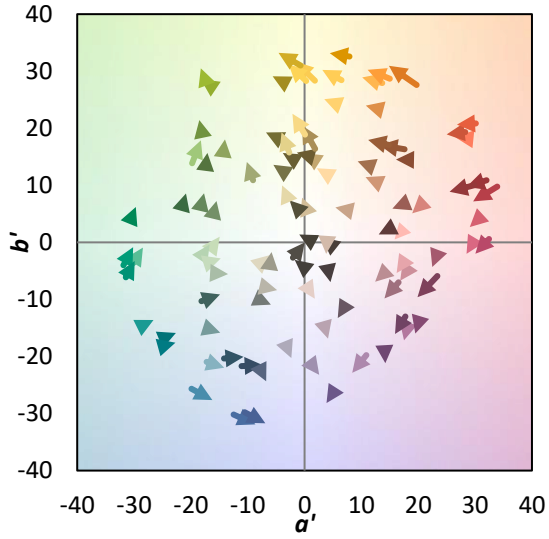


Color Vector Graphics







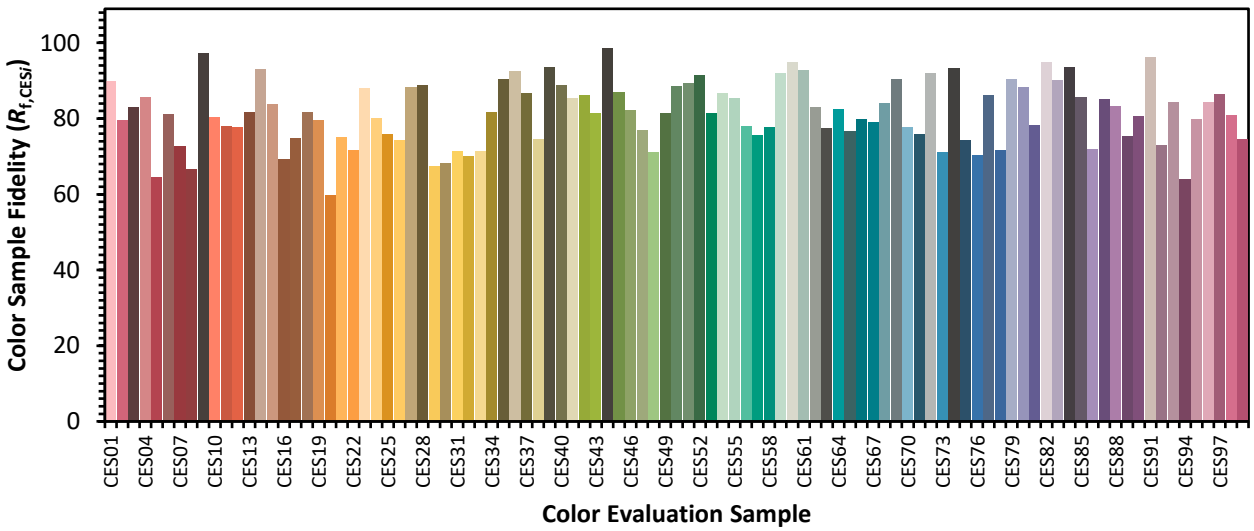


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

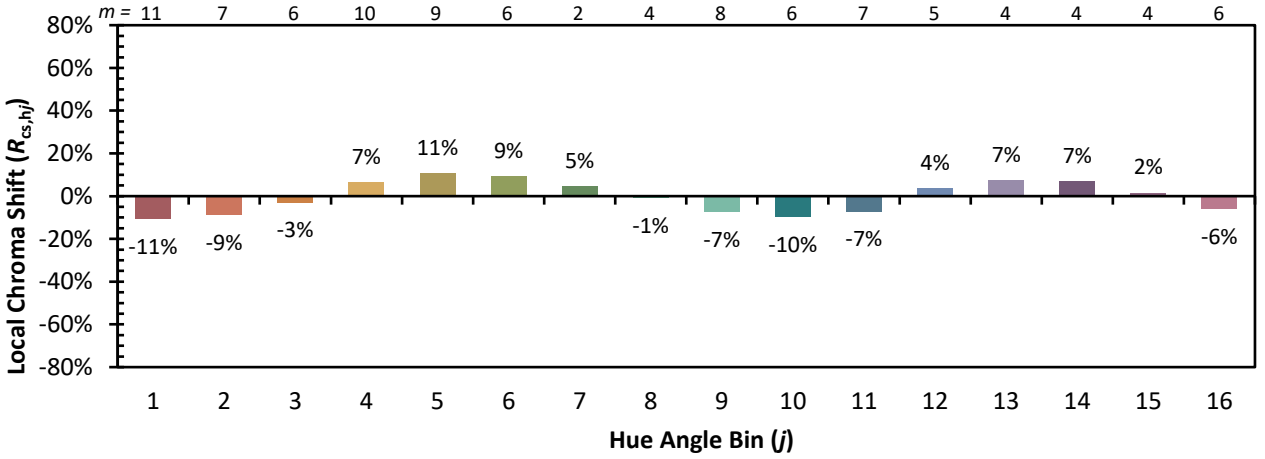
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

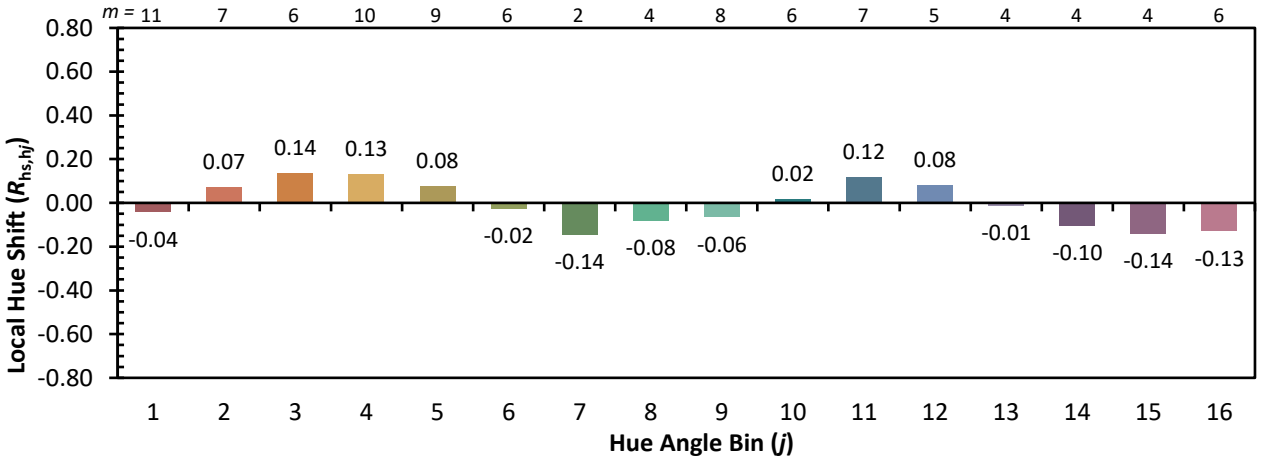


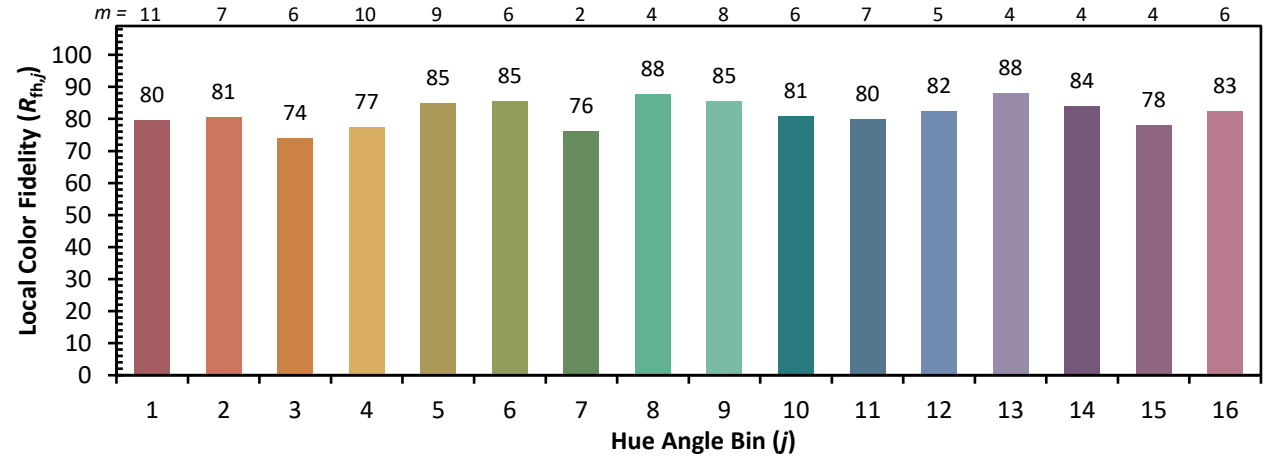
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



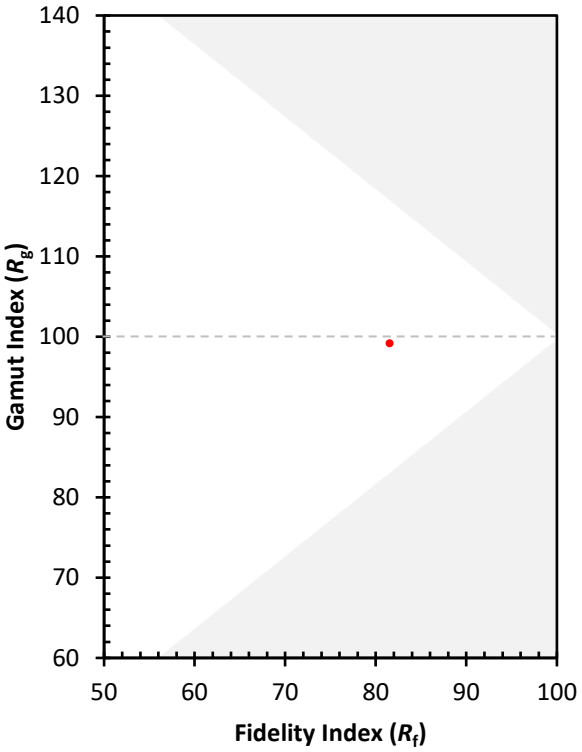


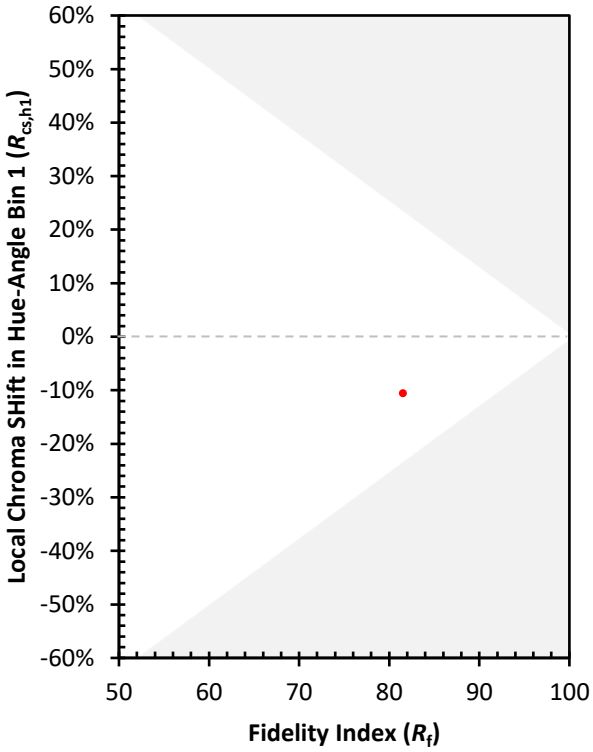


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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