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: P320177

Luminaire Tested: **GLEON-SA3D-830-U-SL4**

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:	P320177
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
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-SL4
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17887 lumens
Efficiency:	N/A
Efficacy:	93.6 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):	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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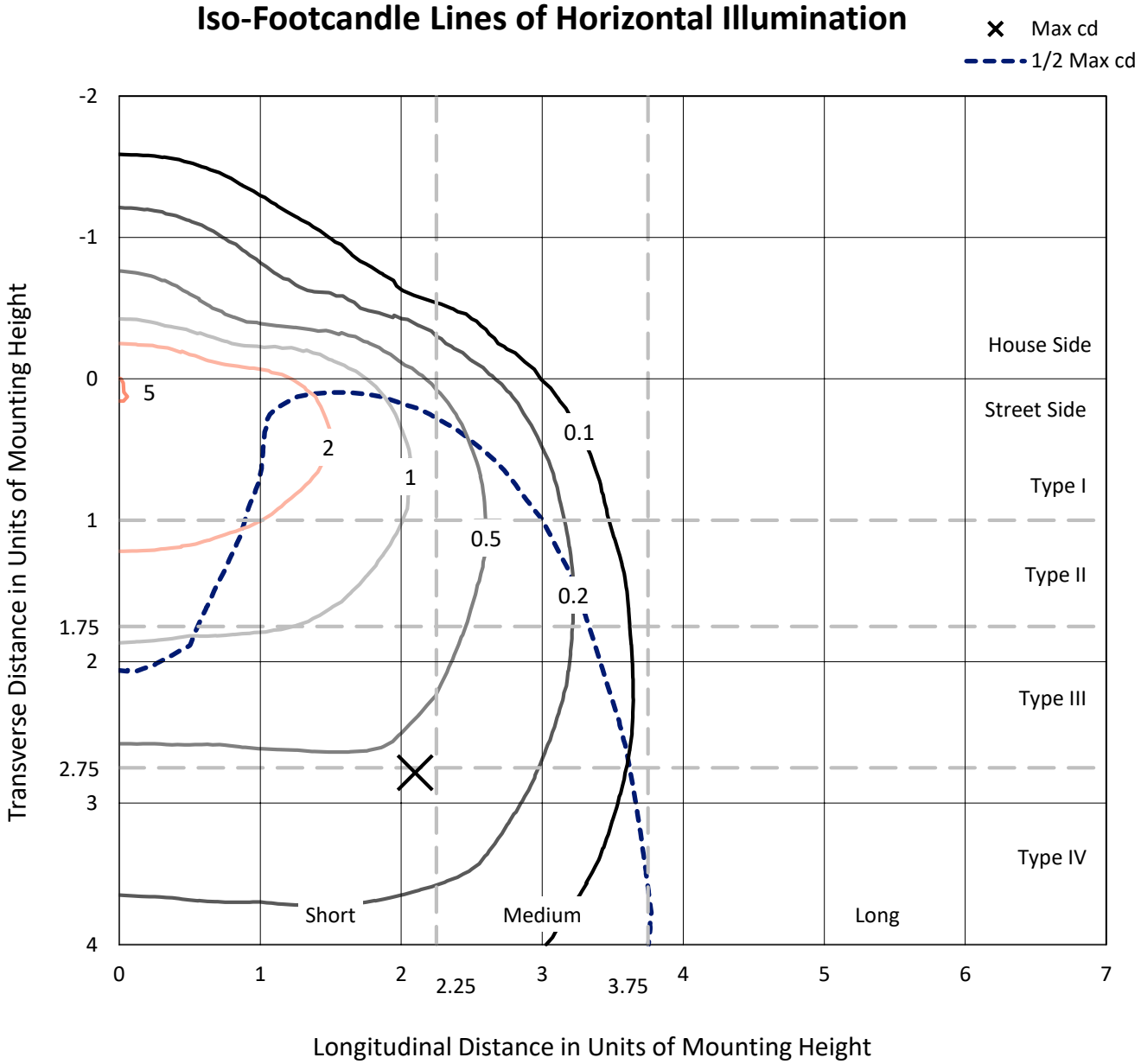
Scaled Data Report

REPORT NUMBER: P320177
CATALOG NUMBER: GLEON-SA3D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type IV - Short - N/A

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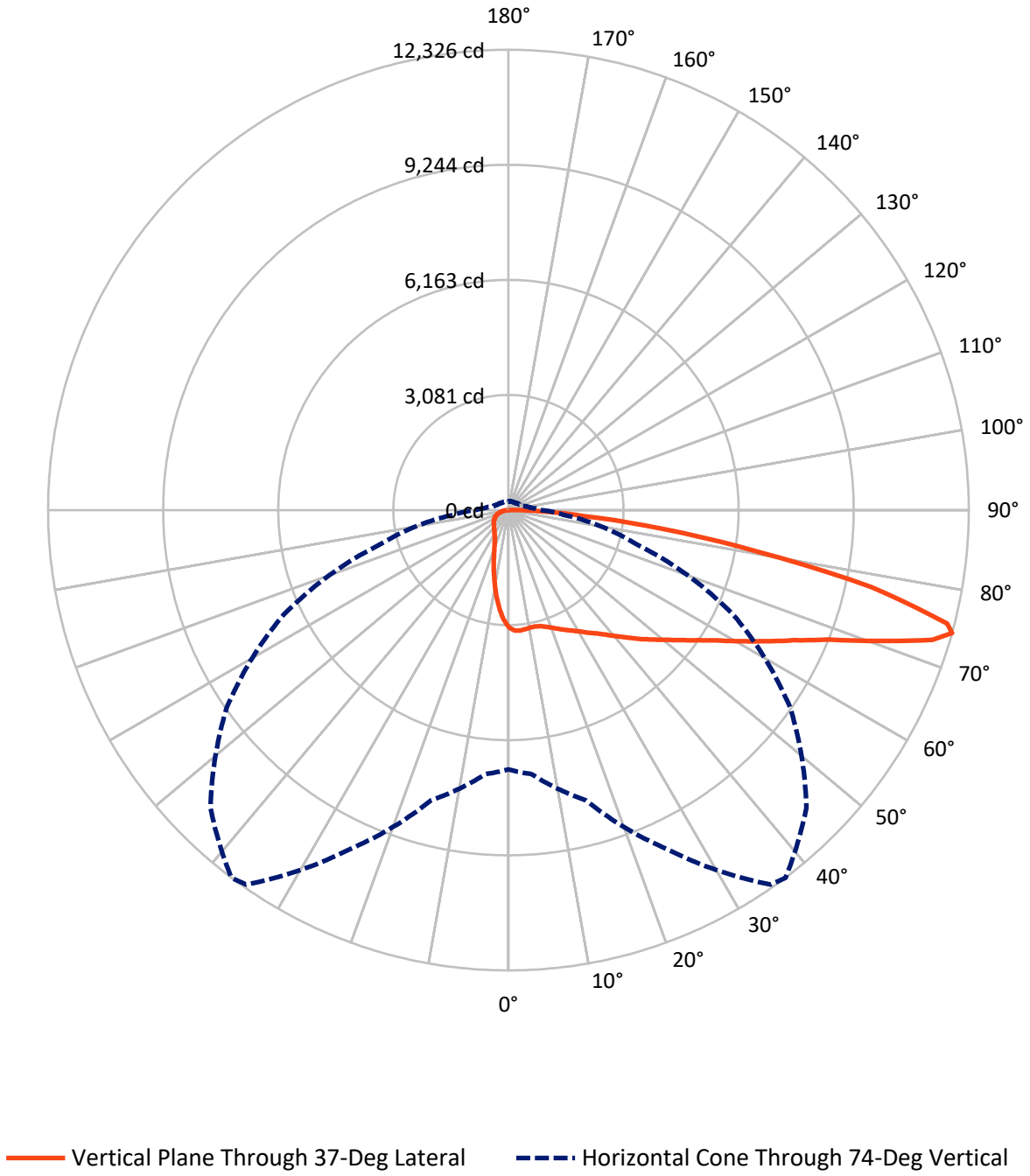
Luminous Intensity Polar Plot



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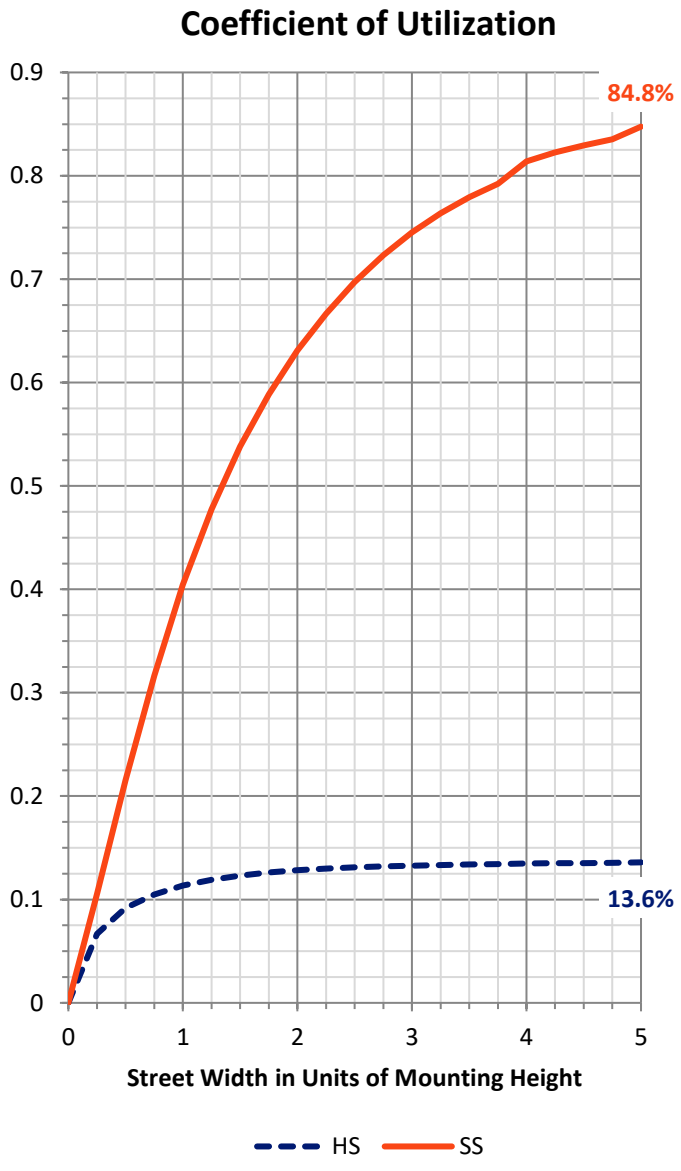
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2461.1	0.0	2461.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	15425.9	0.0	15425.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	17887.0	0.0	17887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	1.6
10°-20°	711.4	4.0
20°-30°	1096.1	6.1
30°-40°	1593.9	8.9
40°-50°	2346.0	13.1
50°-60°	3294.5	18.4
60°-70°	4169.8	23.3
70°-80°	3671.7	20.5
80°-90°	726.0	4.1
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°	17887.0	100.0
0°-180°	17887.0	100.0



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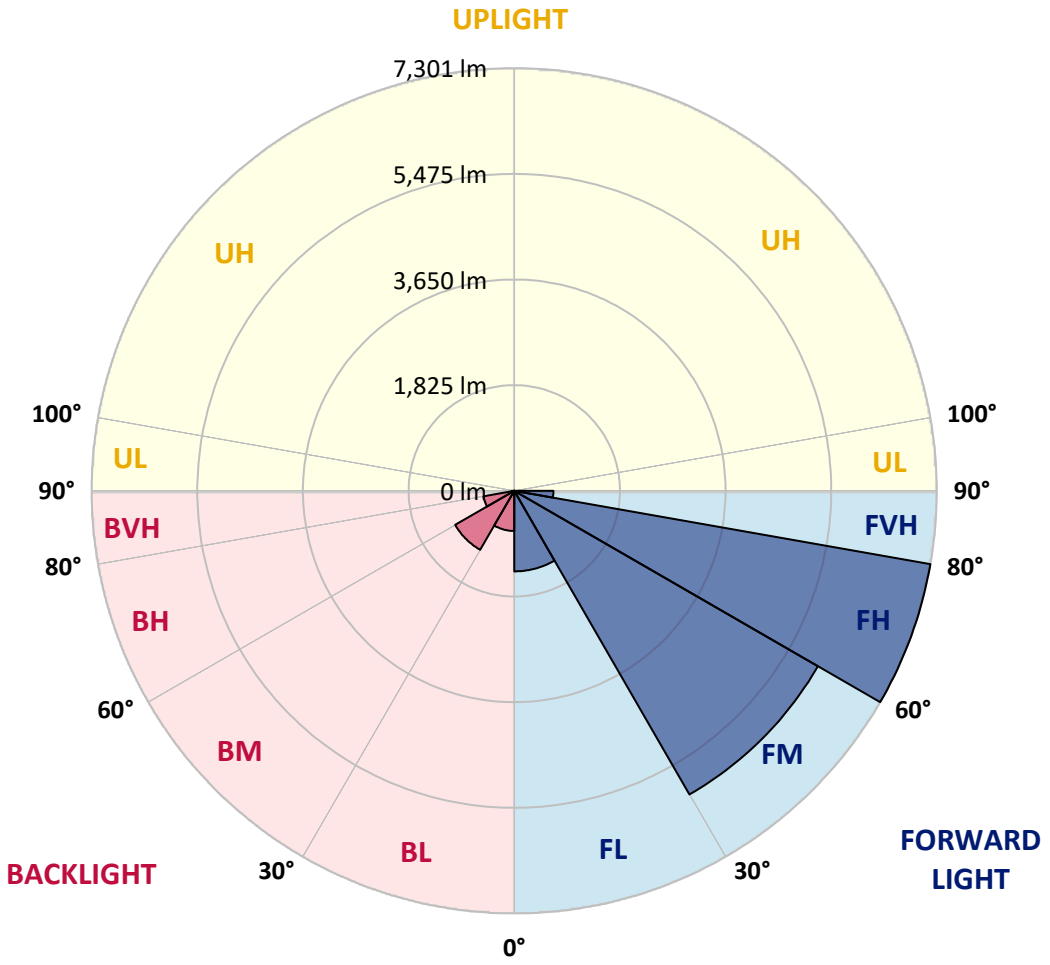
REPORT NUMBER: P320177
CATALOG NUMBER: GLEON-SA3D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1391.8	7.8			
FM	(30°-60°)	6056.7	33.9			
FH	(60°-80°)	7300.6	40.8			G3/7500
FVH	(80°-90°)	676.8	3.8			G4/750
BL	(0°-30°)	693.2	3.9	B2/1000		
BM	(30°-60°)	1177.7	6.6	B2/2500		
BH	(60°-80°)	541.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	49.2	0.3			G1/100
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: P320177
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6
2.5°	3259.4	3260.0	3259.4	3254.3	3242.4	3232.3	3224.1	3212.1	3185.6	3165.5	3135.2
5°	3290.2	3286.5	3283.9	3274.5	3255.6	3244.2	3228.5	3205.8	3162.3	3122.0	3072.9
7.5°	3275.7	3271.3	3265.7	3254.3	3232.9	3223.4	3201.4	3171.8	3119.5	3066.6	2996.0
10°	3231.0	3229.7	3227.2	3224.7	3206.4	3198.9	3178.7	3147.2	3095.5	3031.3	2948.7
12.5°	3181.2	3184.4	3194.5	3207.7	3199.5	3195.7	3183.1	3161.7	3108.8	3039.5	2939.9
15°	3149.7	3158.6	3185.6	3220.3	3227.2	3226.0	3222.8	3209.0	3152.9	3076.0	2960.1
17.5°	3139.0	3153.5	3205.2	3262.5	3282.7	3287.1	3288.3	3264.4	3202.0	3120.7	2980.9
20°	3158.6	3176.8	3252.4	3331.2	3363.3	3365.8	3360.2	3318.6	3248.7	3159.2	2992.2
22.5°	3217.8	3234.2	3328.7	3417.5	3454.1	3457.8	3440.8	3377.8	3297.8	3204.5	3008.0
25°	3331.8	3352.0	3446.5	3535.3	3554.2	3554.9	3530.3	3452.2	3362.1	3268.2	3042.0
27.5°	3480.5	3500.7	3585.7	3672.7	3662.6	3656.9	3623.5	3545.4	3445.9	3355.8	3102.5
30°	3646.2	3668.3	3748.9	3810.7	3786.7	3775.4	3748.3	3647.5	3562.4	3475.5	3195.1
32.5°	3817.6	3837.8	3908.3	3950.6	3920.3	3915.3	3874.3	3782.3	3714.3	3658.2	3345.1
35°	3993.4	4007.9	4077.2	4101.1	4060.8	4059.6	4048.2	3963.8	3920.9	3947.4	3563.1
37.5°	4173.0	4176.7	4236.0	4237.2	4225.3	4230.3	4242.3	4189.3	4201.3	4283.9	3846.6
40°	4333.0	4343.1	4385.9	4399.2	4420.0	4437.6	4497.5	4462.8	4555.4	4701.6	4199.4
42.5°	4451.5	4471.0	4539.7	4573.7	4641.1	4668.8	4753.3	4785.4	4971.9	5191.2	4619.1
45°	4551.6	4581.9	4692.1	4762.1	4876.1	4924.6	5045.6	5153.4	5442.6	5722.3	5060.7
47.5°	4660.0	4698.4	4836.4	4970.0	5125.0	5179.8	5399.7	5561.0	5944.7	6256.6	5477.2
50°	4819.4	4849.0	4983.9	5193.7	5387.1	5457.7	5762.0	5993.2	6455.1	6765.7	5838.2
52.5°	5041.8	5030.5	5144.5	5438.8	5698.4	5785.3	6148.9	6453.2	6972.4	7226.3	6143.2
55°	5265.5	5246.6	5326.6	5695.2	6061.3	6152.7	6574.8	6915.0	7464.5	7640.9	6377.0
57.5°	5514.4	5478.5	5545.9	5984.4	6474.6	6583.6	7051.8	7405.9	7948.4	7976.1	6525.7
60°	5770.8	5722.3	5797.9	6342.9	6999.5	7128.0	7610.0	7884.7	8404.5	8244.5	6573.5
62.5°	5995.1	5961.1	6077.7	6743.0	7591.1	7732.2	8158.2	8393.8	8854.4	8356.0	6400.9
65°	6191.1	6196.8	6398.4	7192.9	8250.8	8401.4	8787.0	9021.4	9208.5	8289.9	5997.0
67.5°	6424.8	6457.0	6801.0	7785.2	9081.2	9246.3	9701.8	9705.6	9406.3	7901.7	5201.9
70°	6765.7	6831.9	7354.8	8606.8	10262.0	10488.8	10840.4	10107.6	9128.5	6849.5	4092.9
72.5°	7068.1	7191.6	7943.9	9546.9	11701.1	11873.1	11506.4	9875.7	7967.3	5133.2	2549.9
74°	6945.3	7098.4	8051.1	10010.0	12242.9	12325.5	11281.4	9199.1	6642.8	3554.9	1481.9
75°	6680.7	6847.0	7894.8	10005.5	12174.3	12128.3	10738.3	8426.0	5470.9	2424.5	986.1
77.5°	5391.5	5567.3	6652.3	8575.3	9982.2	9938.8	8248.9	5652.4	2396.2	795.2	500.9
80°	3134.6	3268.8	4129.5	5445.7	6731.1	6809.8	5424.9	2796.9	942.6	446.7	339.6
82.5°	1392.5	1485.1	1994.8	2779.9	4062.1	4163.5	2841.0	1465.5	582.2	271.6	204.1
85°	913.6	982.3	1211.0	1323.8	1934.3	2003.6	1390.6	1141.1	384.3	149.3	150.0
87.5°	657.2	723.3	899.7	785.7	887.8	840.5	756.7	1056.0	154.4	85.1	50.4
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: P320177
CATALOG NUMBER: GLEON-SA3D-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6	3151.6
2.5°	3122.0	3111.9	3089.2	3046.4	3022.5	3002.3	2968.9	2949.4	2940.5	2939.9	2943.7
5°	3044.5	3021.2	2962.6	2890.8	2833.4	2781.1	2716.2	2677.2	2649.5	2633.1	2637.5
7.5°	2954.4	2917.9	2825.9	2711.2	2619.2	2517.8	2417.6	2357.7	2311.1	2276.5	2282.8
10°	2892.7	2842.3	2708.0	2543.0	2389.9	2242.4	2104.4	2021.9	1956.4	1906.0	1909.7
12.5°	2871.9	2803.8	2617.9	2397.4	2182.6	1980.9	1800.7	1674.1	1606.7	1549.3	1553.8
15°	2875.0	2783.7	2542.3	2266.4	1996.1	1742.1	1523.5	1375.4	1284.1	1244.4	1245.0
17.5°	2877.5	2760.3	2463.0	2125.9	1811.5	1519.1	1281.6	1131.6	1045.3	1008.7	1009.4
20°	2869.3	2722.5	2364.7	1964.6	1618.7	1314.3	1084.4	957.1	891.6	863.2	863.2
22.5°	2858.6	2677.8	2253.8	1802.6	1428.4	1136.6	943.2	846.2	808.4	789.5	788.9
25°	2863.7	2644.4	2140.4	1636.3	1253.2	994.9	849.3	785.1	759.9	747.9	747.3
27.5°	2890.8	2628.7	2035.8	1470.6	1100.1	888.4	786.3	741.0	724.6	717.0	717.0
30°	2939.9	2628.7	1926.8	1329.5	972.8	809.6	737.8	706.9	695.6	690.6	690.6
32.5°	3025.6	2643.2	1821.5	1189.6	871.4	747.9	697.5	676.7	667.9	665.4	665.4
35°	3173.0	2692.3	1718.8	1057.3	789.5	697.5	659.1	647.1	640.8	640.2	642.0
37.5°	3380.3	2792.5	1622.4	959.6	731.5	656.5	626.9	617.5	613.7	616.8	619.4
40°	3641.2	2928.6	1534.9	871.4	687.4	623.8	597.3	591.0	589.1	593.5	597.3
42.5°	3956.2	3112.6	1463.0	807.8	653.4	596.0	572.1	564.5	562.7	567.7	572.7
45°	4297.1	3310.4	1412.6	760.5	626.9	575.3	550.1	541.9	538.1	540.6	546.3
47.5°	4607.1	3497.5	1392.5	727.1	601.7	557.6	530.5	520.4	514.1	512.9	517.3
50°	4868.6	3636.8	1401.9	706.9	581.6	538.1	511.6	500.3	490.8	485.2	488.3
52.5°	5058.8	3724.4	1410.7	698.1	565.8	516.7	490.8	480.1	467.5	458.1	458.1
55°	5196.8	3744.5	1391.2	691.2	553.8	493.3	467.5	457.4	444.8	434.1	432.9
57.5°	5251.0	3687.8	1318.7	681.1	545.6	471.3	442.9	435.4	424.7	412.1	411.4
60°	5177.9	3512.7	1178.9	659.7	534.9	453.0	418.4	413.3	408.3	396.3	395.7
62.5°	4884.3	3128.3	998.0	616.2	513.5	433.5	395.7	398.2	398.8	390.6	389.4
65°	4351.9	2600.3	821.6	559.5	481.4	410.2	372.4	384.3	391.3	390.0	388.1
67.5°	3578.2	2023.8	696.2	499.6	439.2	378.0	347.2	361.0	366.7	371.1	369.9
70°	2655.8	1427.1	575.9	436.6	388.1	340.2	314.4	321.3	317.6	322.6	324.5
72.5°	1480.7	856.3	469.4	373.6	335.2	296.1	277.9	276.6	268.4	268.4	268.4
74°	*888.4*	*628.2*	*412.7*	*334.6*	*303.1*	*267.2*	*251.4*	*245.7*	*238.2*	*238.8*	*238.2*
75°	714.5	540.0	378.7	308.7	280.4	250.1	234.4	226.8	221.2	221.2	220.5
77.5°	451.1	410.2	305.0	245.7	224.3	206.0	195.3	185.2	185.2	184.6	184.0
80°	340.9	326.4	237.5	185.9	172.0	158.1	151.2	146.8	146.8	148.7	148.1
82.5°	233.8	245.7	167.0	129.8	122.9	112.8	111.5	112.2	110.3	107.7	107.1
85°	170.7	184.6	112.8	81.9	75.0	68.7	73.7	76.2	73.1	67.4	64.9
87.5°	65.5	121.0	60.5	34.0	31.5	27.1	31.5	32.8	35.3	27.7	28.4
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

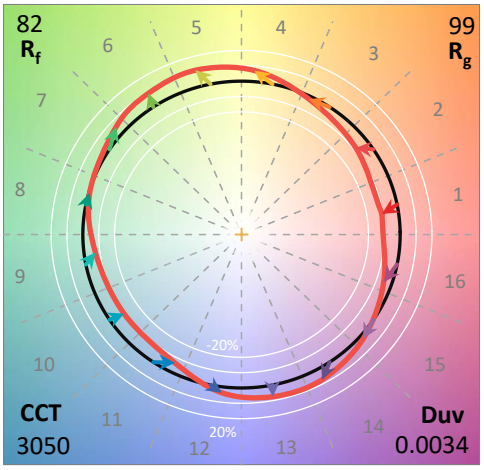
Test Information

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

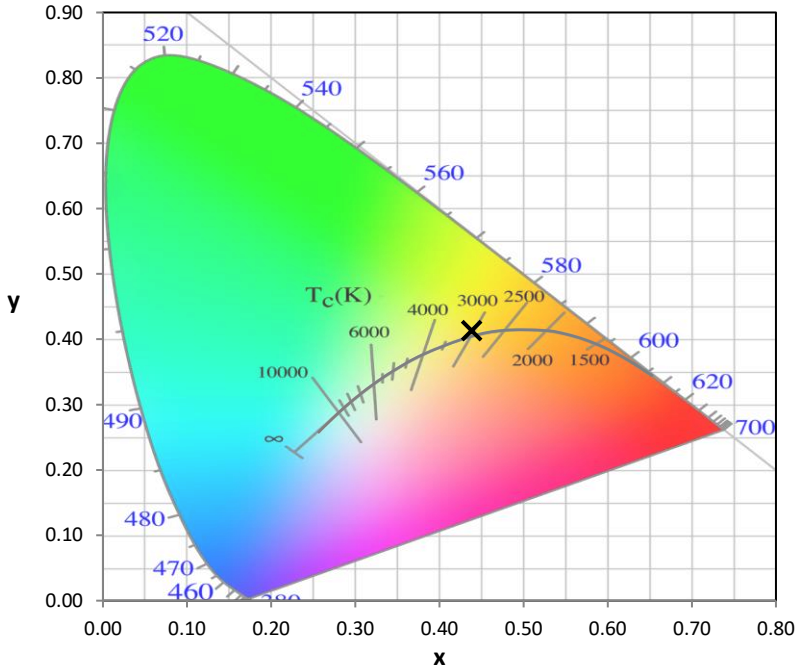
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

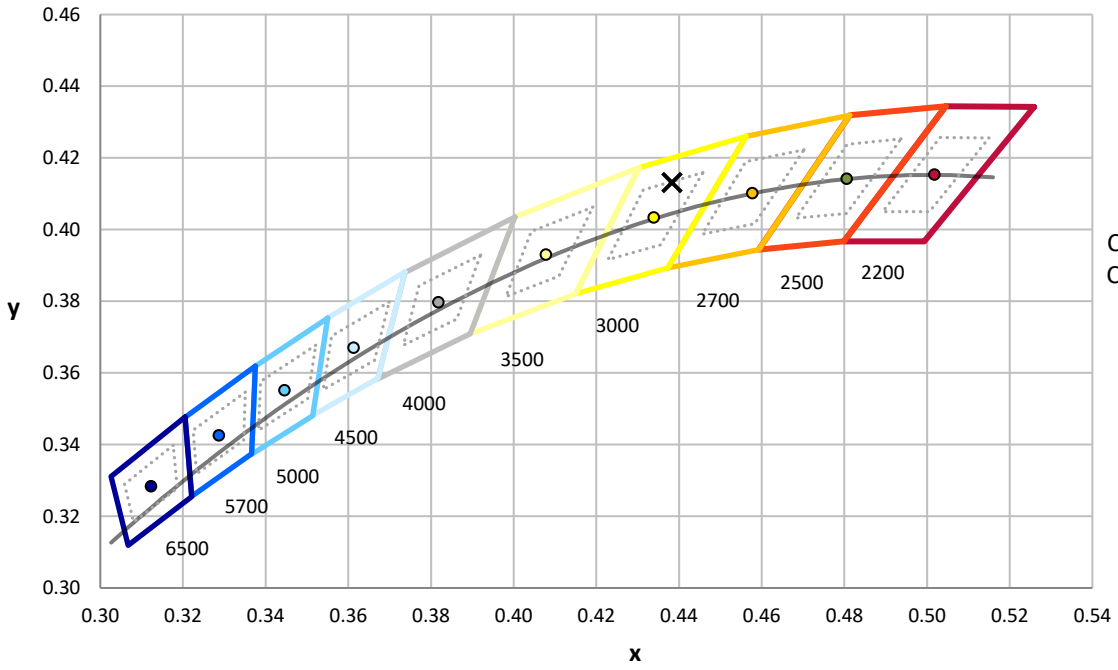
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

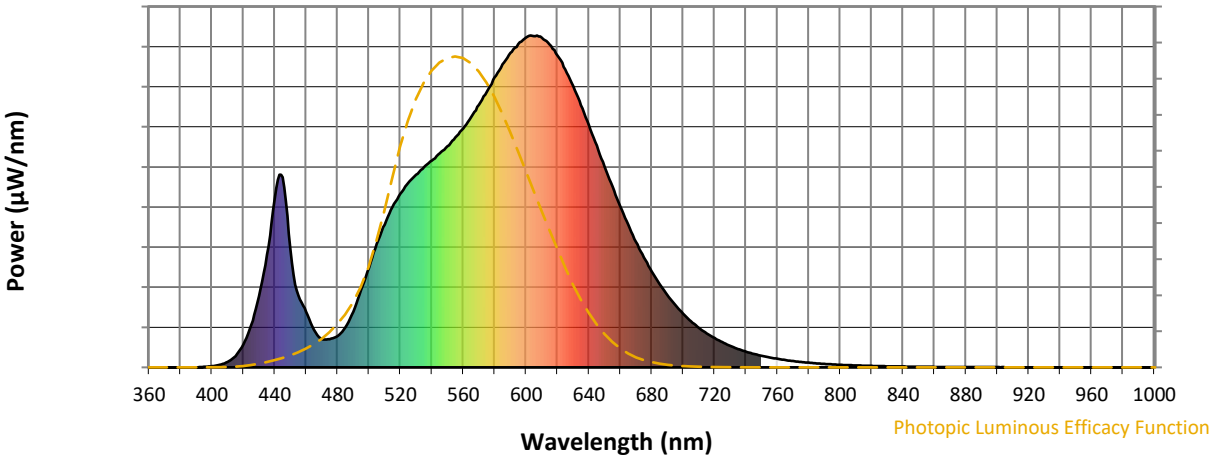


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

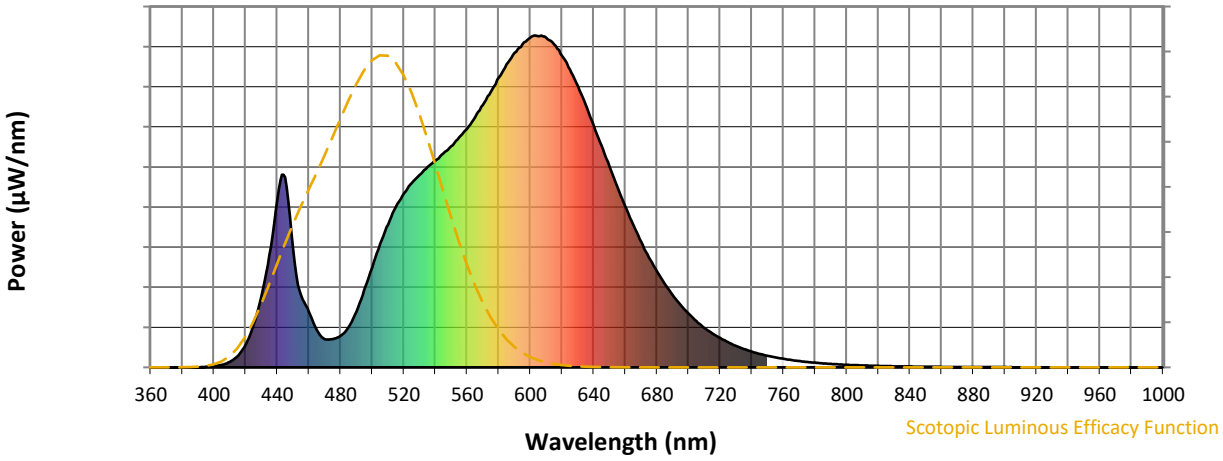


Photopic Lumens: NR

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

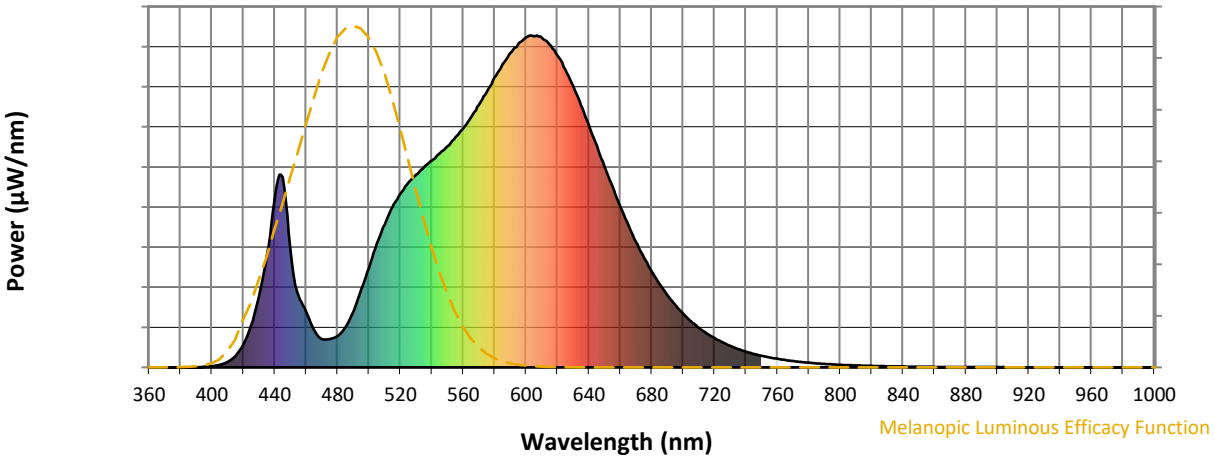


Scotopic Lumens: NR **S/P: 1.27**

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			

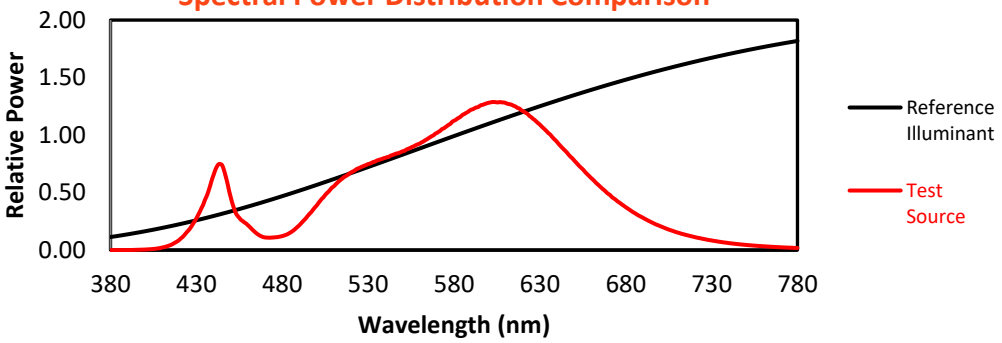
REPORT NUMBER: SP1-2408-195-9

TM-30-18

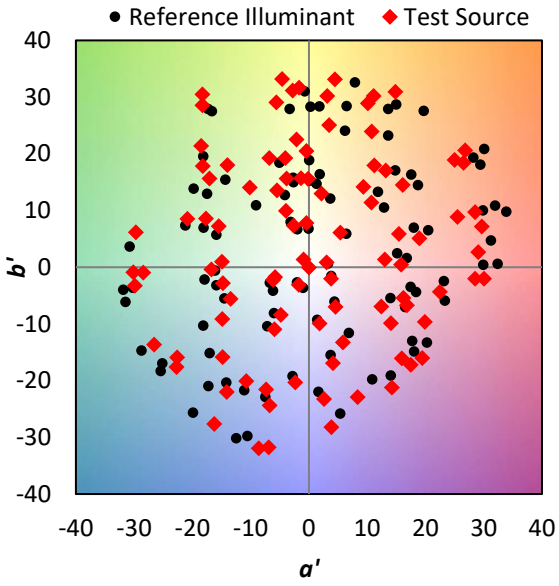
Summary

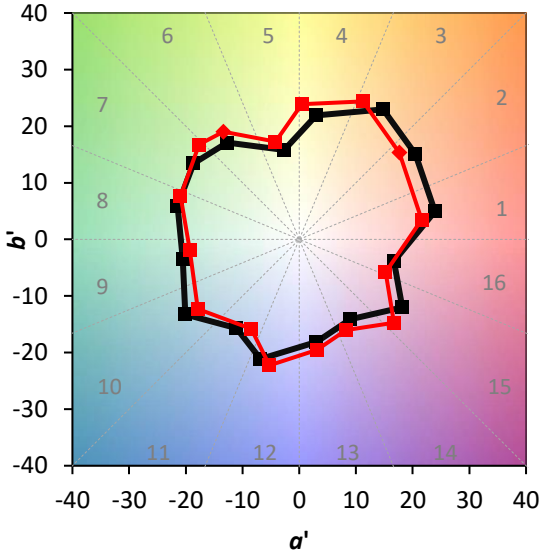
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

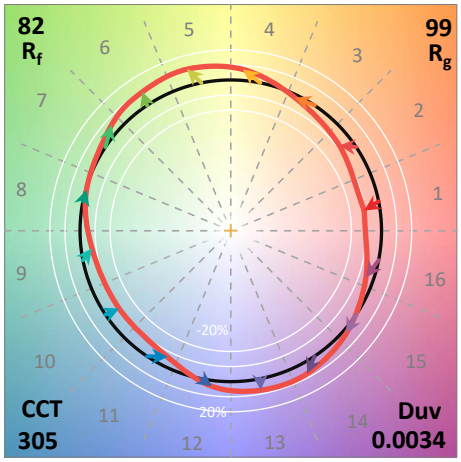
Spectral Power Distribution Comparison

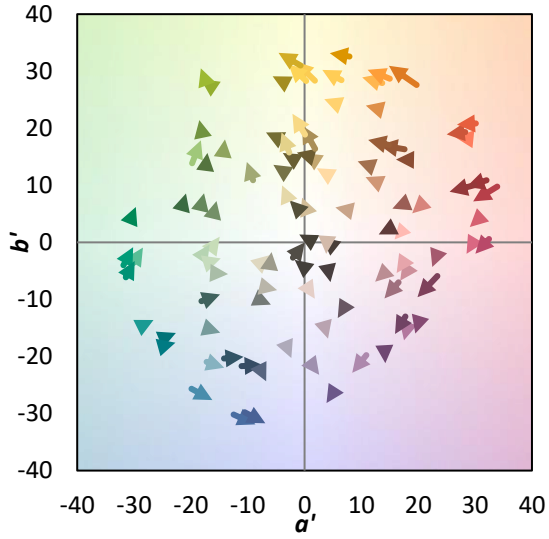


Color Vector Graphics







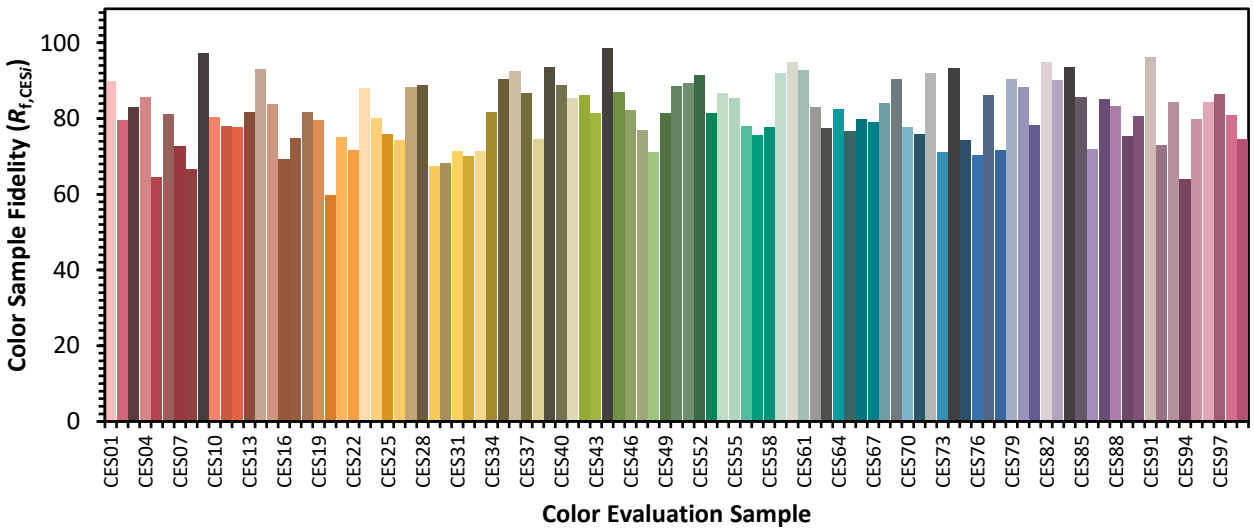


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

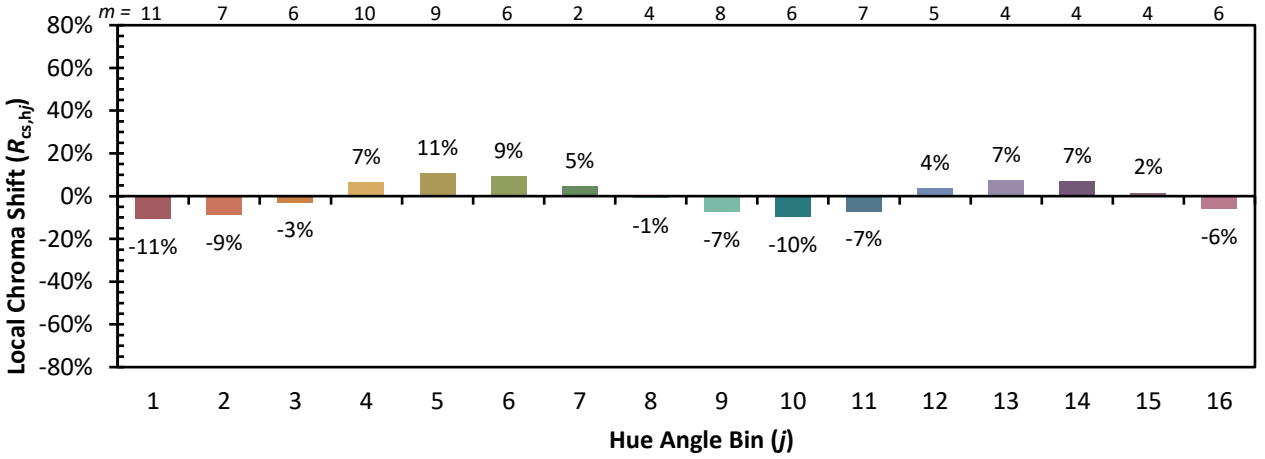
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

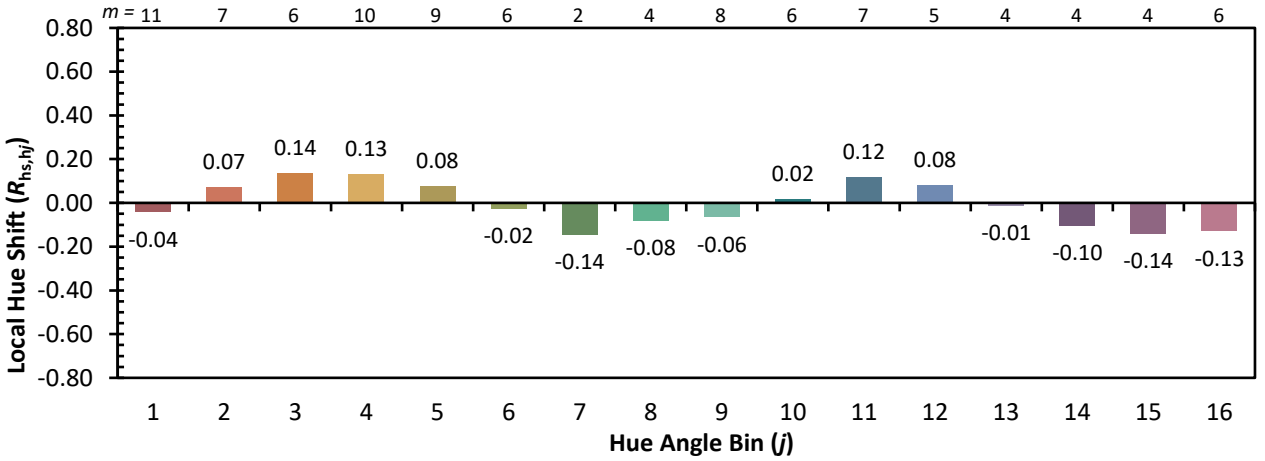


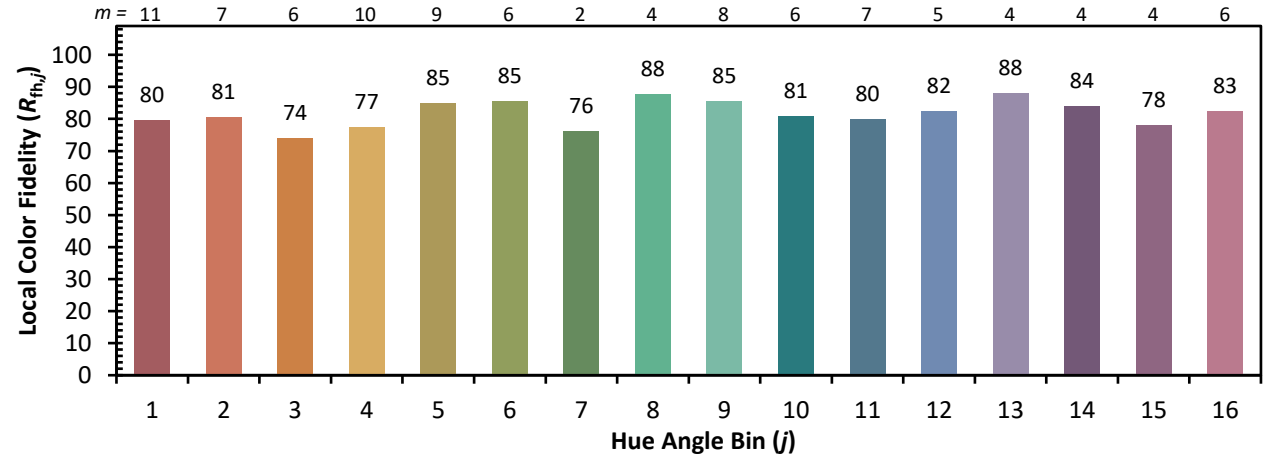
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



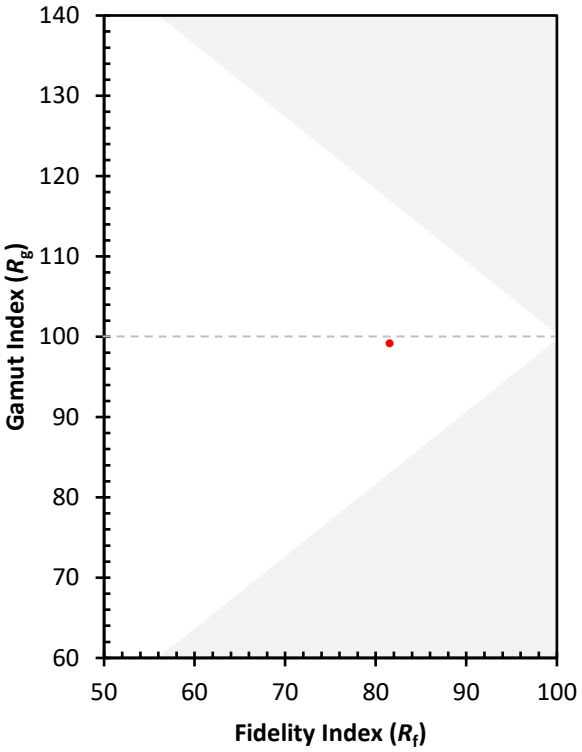


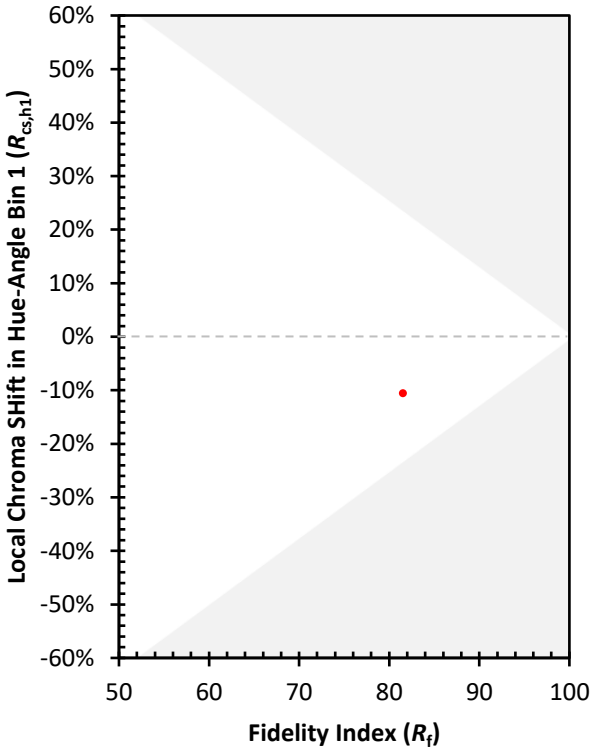


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)