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: P322071

Luminaire Tested: **GLEON-SA7A-830-U-T2-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:	P322071
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7A-830-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
	OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18634 lumens
Efficiency:	N/A
Efficacy:	82.5 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G3

Input Watts (W):	226
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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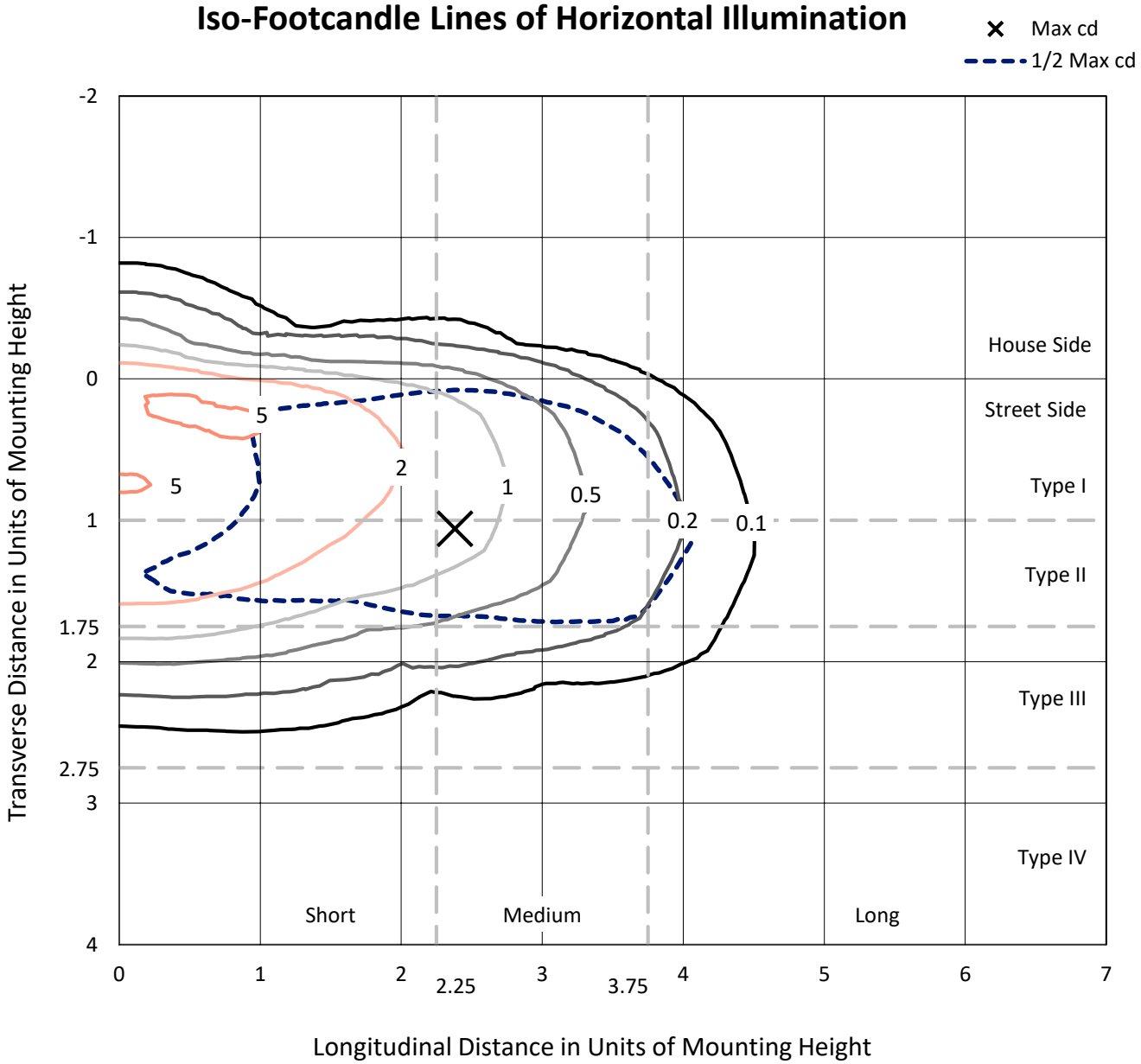
Scaled Data Report

REPORT NUMBER: P322071
CATALOG NUMBER: GLEON-SA7A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Medium - N/A

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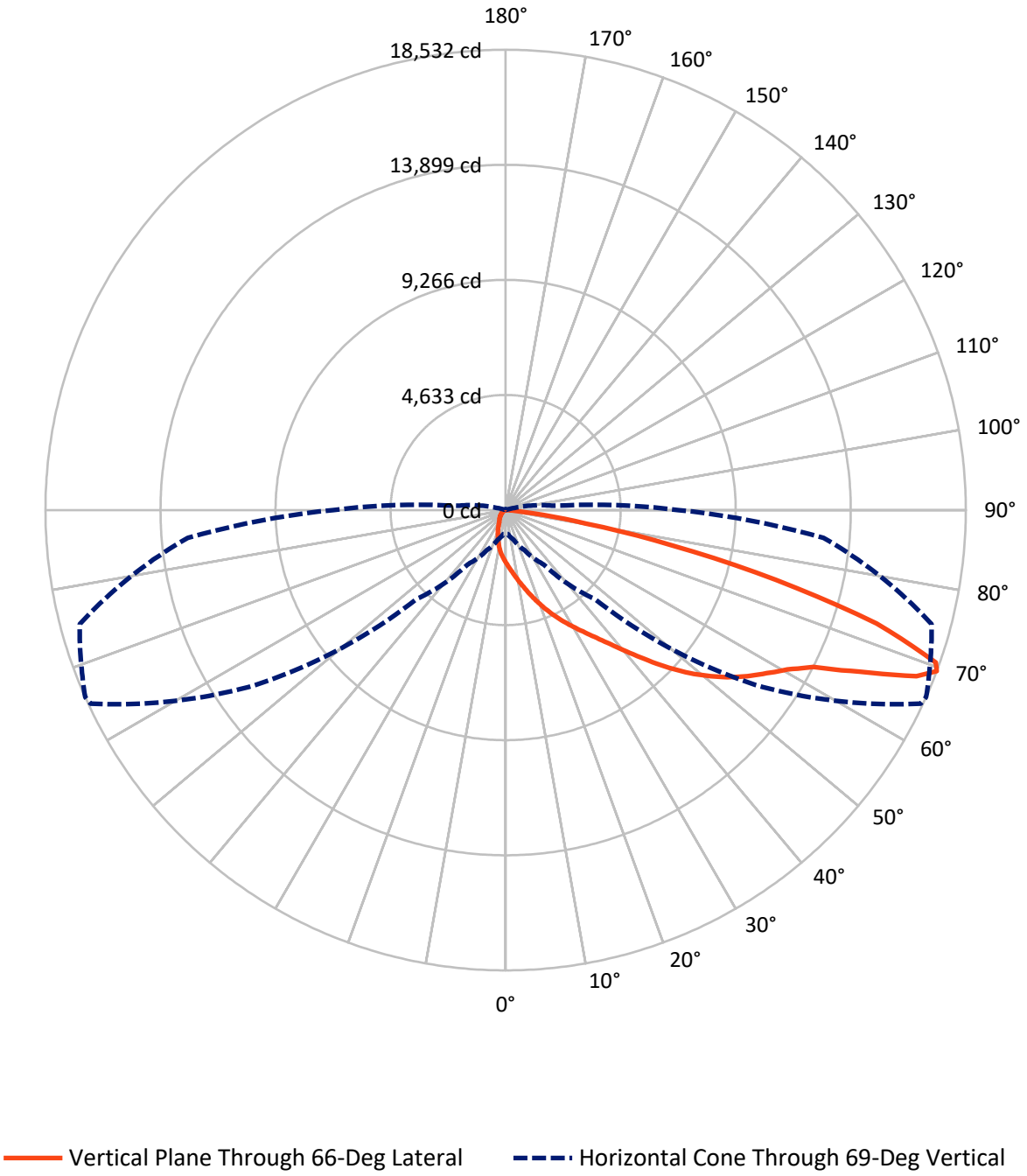
Luminous Intensity Polar Plot



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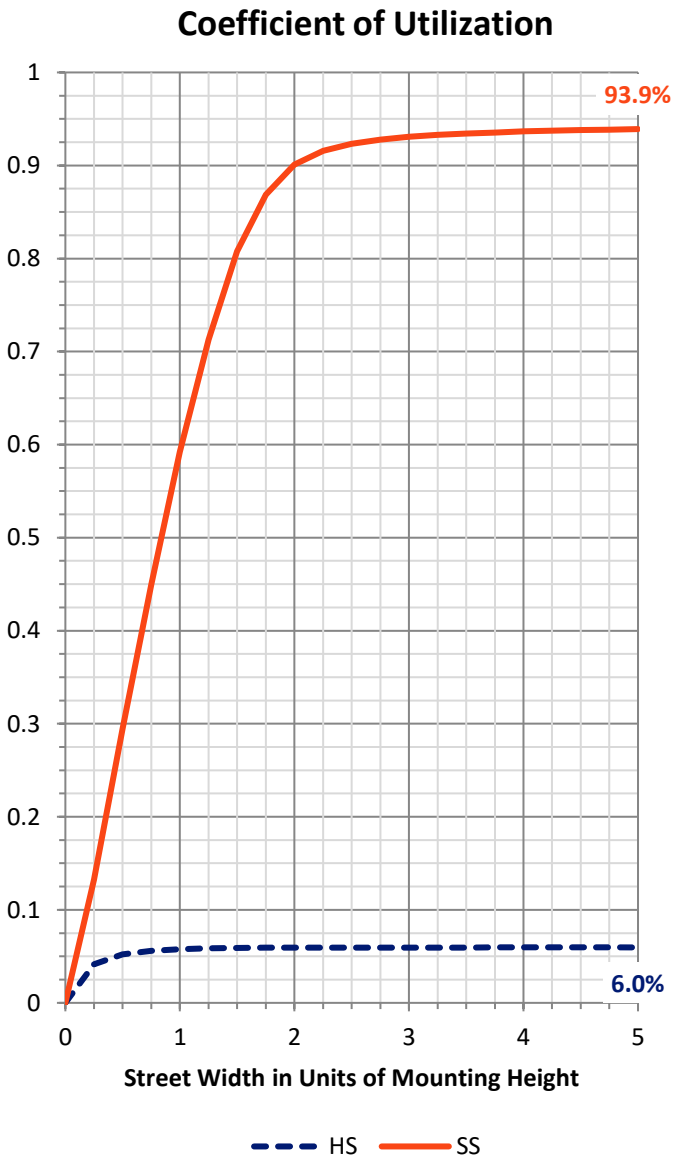
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.8	0.0	1117.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17516.2	0.0	17516.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	18634.0	0.0	18634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	1.1
10°-20°	610.1	3.3
20°-30°	1062.4	5.7
30°-40°	1863.9	10.0
40°-50°	3119.9	16.7
50°-60°	4586.0	24.6
60°-70°	4708.6	25.3
70°-80°	2324.5	12.5
80°-90°	153.7	0.8
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°	18634.0	100.0
0°-180°	18634.0	100.0



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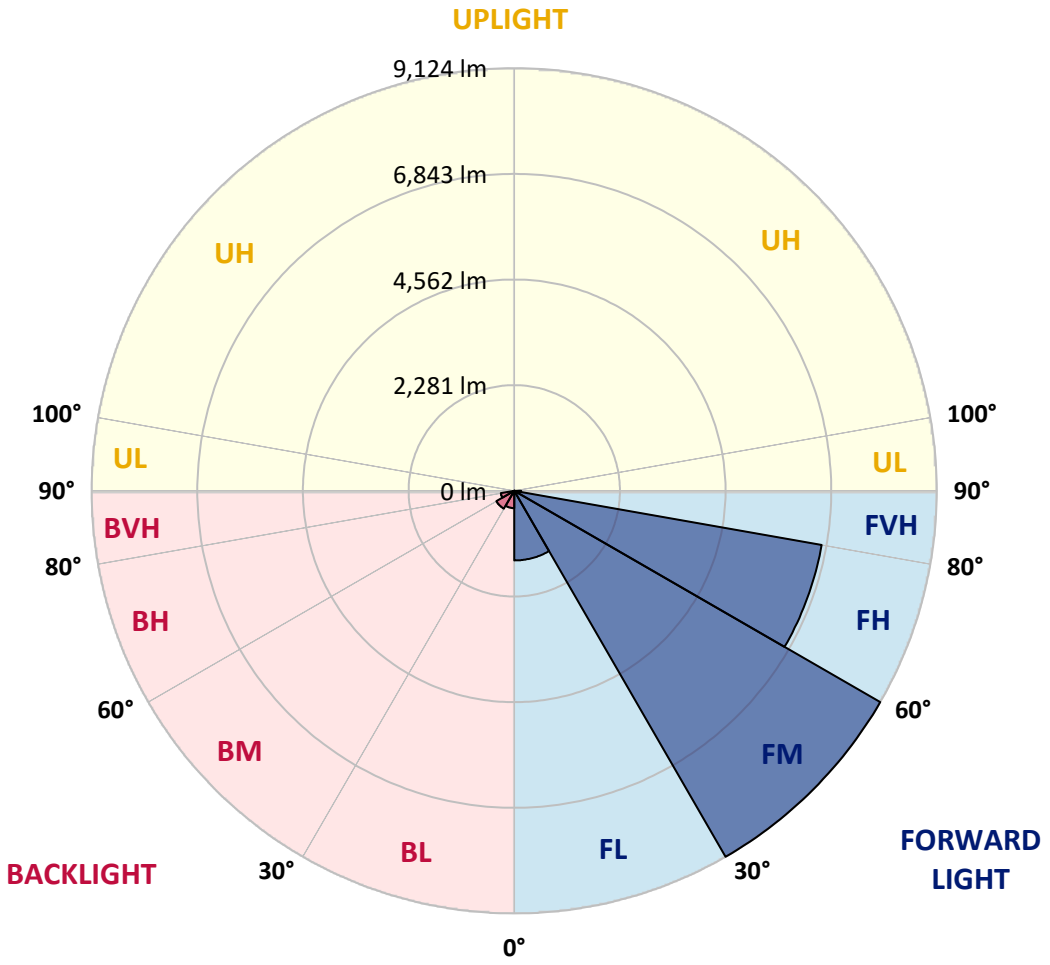
CATALOG NUMBER: GLEON-SA7A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1503.6	8.1			
FM	(30°-60°)	9124.1	49.0			
FH	(60°-80°)	6738.6	36.2			G3/7500
FVH	(80°-90°)	150.0	0.8			G2/225
BL	(0°-30°)	373.8	2.0	B1/500		
BM	(30°-60°)	445.7	2.4	B1/1000		
BH	(60°-80°)	294.6	1.6	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: B1-U0-G3
Type II Medium



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REPORT NUMBER: P322071
CATALOG NUMBER: GLEON-SA7A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	*2120.6*	2120.6	2120.6
2.5°	2495.9	2485.3	2480.8	2461.4	2427.7	2402.1	2352.5	2295.0	*2284.3*	2228.6	2160.4
5°	2819.8	2811.0	2804.8	2777.3	2742.8	2678.2	2587.9	2480.8	*2460.5*	2354.3	2218.0
7.5°	3045.5	3061.4	3061.4	3043.7	3000.4	2951.7	2841.0	2695.0	*2669.3*	2506.5	2295.0
10°	3177.4	3196.8	3211.9	3226.9	3220.7	3201.3	3096.8	2932.2	*2901.2*	2685.3	2384.4
12.5°	3189.8	3209.2	3251.7	3314.6	3375.6	3419.9	3354.4	3195.1	*3159.7*	2892.4	2490.6
15°	3120.7	3141.1	3206.6	3328.7	3476.5	3605.7	3627.0	3486.3	*3450.0*	3139.3	2623.3
17.5°	3000.4	3013.6	3107.5	3276.5	3508.4	3745.6	3873.9	3798.7	*3765.1*	3421.7	2771.1
20°	2911.0	2920.7	3003.0	3184.5	3488.9	3833.2	4107.6	4130.6	*4095.2*	3724.3	2931.3
22.5°	3064.1	3081.8	3084.4	3170.3	3435.8	3876.6	4312.9	4457.2	*4430.6*	4045.6	3088.9
25°	3482.7	3503.1	3435.8	3382.7	3480.9	3896.0	4489.0	4791.7	*4770.5*	4391.7	3247.3
27.5°	4035.9	4057.1	3970.4	3812.0	3717.3	3969.5	4645.7	5131.6	*5130.7*	4758.1	3418.1
30°	4579.3	4600.6	4512.0	4353.6	4135.9	4177.5	4781.1	5487.4	*5492.7*	5136.0	3599.5
32.5°	5149.3	5175.8	5084.7	4881.1	4653.7	4536.8	4971.4	5845.0	*5875.0*	5574.1	3804.0
35°	5797.2	5800.7	5672.4	5459.1	5197.1	5017.4	5276.7	6245.9	*6317.6*	6116.7	4063.3
37.5°	6432.6	6458.3	6353.0	6016.7	5775.9	5572.4	5730.8	6746.8	*6848.6*	6779.6	4402.3
40°	6903.5	6957.5	6942.4	6579.6	6351.2	6206.1	6294.6	7342.5	*7471.7*	7551.4	4829.8
42.5°	7199.1	7239.8	7308.8	7090.2	6883.1	6907.0	6960.1	8036.4	*8195.7*	8431.1	5321.0
45°	7538.1	7557.5	7615.1	7518.6	7378.8	7619.5	7666.4	8817.9	*8985.2*	9377.2	5866.2
47.5°	7952.3	7998.3	8014.2	7925.7	7862.0	8249.7	8347.0	9528.6	*9763.1*	10390.6	6443.3
50°	8479.8	8492.2	8519.6	8462.1	8398.4	8791.3	8957.7	10274.7	*10488.0*	11407.6	7012.3
52.5°	8995.8	9040.0	9135.6	9099.3	9073.7	9252.4	9502.0	10947.3	*11185.4*	12255.5	7580.6
55°	9144.5	9182.5	9512.6	9738.3	9947.2	9820.7	10022.4	11550.1	*11807.6*	13013.1	8127.5
57.5°	8550.6	8627.6	9199.3	9787.0	10653.5	10703.9	10737.6	12168.7	*12399.7*	13593.7	8696.6
60°	7049.5	7064.6	8002.7	9010.8	10536.7	11474.8	11781.9	12833.4	*13027.2*	14134.4	9378.1
62.5°	4483.7	4636.8	5666.2	7089.3	9301.1	11363.3	13044.9	13838.8	*13909.6*	14783.2	10355.2
65°	2135.7	2234.8	2976.5	4380.2	6737.1	9935.7	13916.7	15657.6	*15689.5*	16069.2	11660.7
67.5°	1182.4	1230.2	1583.4	2357.8	3938.5	7026.5	13564.5	17811.9	*17842.0*	17382.6	12806.0
69°	*924.9*	*965.6*	*1243.5*	*1777.2*	*2670.2*	*5050.2*	*12274.9*	*18442.9*	*18532.3*	*17758.8*	*12846.7*
70°	785.1	824.9	1070.9	1501.1	2147.2	3902.2	10926.1	18286.3	*18381.0*	17723.4	12543.1
72.5°	480.6	503.6	713.4	1056.8	1439.1	1963.1	6738.0	15464.7	*15624.9*	16257.7	10780.1
75°	323.9	336.3	446.1	729.3	1029.3	1010.7	3500.4	10900.4	*11247.4*	12646.7	7962.0
77.5°	231.9	243.4	299.2	471.7	721.3	667.3	1585.1	6774.3	*6848.6*	7585.0	4342.1
80°	131.9	142.5	211.5	280.6	489.4	445.2	630.2	3235.8	*3273.0*	3252.6	1449.7
82.5°	69.0	77.9	115.9	185.0	314.2	291.2	262.0	1083.3	*1088.6*	905.4	317.7
85°	13.3	15.9	57.5	126.6	162.0	126.6	107.1	254.0	*259.3*	229.2	78.8
87.5°	0.0	0.9	23.0	28.3	31.9	32.7	34.5	49.6	*53.1*	71.7	21.2
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: P322071
CATALOG NUMBER: GLEON-SA7A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6	2120.6
2.5°	2130.3	2098.5	2037.4	1966.6	1911.7	1857.7	1815.3	1771.0	1755.1	1747.1	1746.2
5°	2151.6	2084.3	1955.1	1822.3	1713.5	1610.8	1537.4	1467.4	1434.7	1419.6	1413.4
7.5°	2187.0	2079.0	1871.0	1668.3	1511.7	1383.4	1281.6	1205.5	1167.4	1151.5	1145.3
10°	2228.6	2071.9	1772.8	1505.5	1305.5	1172.7	1071.8	996.6	955.0	937.3	928.4
12.5°	2277.3	2059.5	1659.5	1340.9	1129.3	996.6	874.4	781.5	733.7	713.4	703.6
15°	2337.4	2047.1	1540.9	1186.0	974.5	812.5	678.8	616.0	606.3	602.7	603.6
17.5°	2396.7	2027.7	1411.7	1032.9	811.6	634.6	566.4	562.9	564.7	564.7	564.7
20°	2449.9	1983.4	1270.9	901.9	656.7	535.5	521.3	515.1	510.7	507.1	502.7
22.5°	2491.5	1924.1	1135.5	771.8	536.3	490.3	468.2	448.7	432.8	422.2	416.9
25°	2519.8	1845.4	1011.6	647.0	482.4	446.1	406.2	373.5	348.7	333.7	327.5
27.5°	2541.0	1760.4	901.0	541.7	445.2	394.7	342.5	303.6	277.9	264.6	259.3
30°	2556.1	1663.9	803.6	476.2	403.6	340.7	285.0	246.9	228.3	221.3	217.7
32.5°	2570.2	1556.8	711.6	445.2	364.6	291.2	239.0	209.8	198.3	189.4	186.7
35°	2605.6	1457.7	624.0	412.4	324.8	248.7	205.3	184.1	172.6	167.3	165.5
37.5°	2689.7	1384.2	539.9	378.8	285.0	215.1	179.7	164.6	154.0	148.7	146.9
40°	2825.1	1347.1	469.1	342.5	246.0	189.4	162.9	148.7	137.2	129.2	127.4
42.5°	3024.3	1352.4	419.5	306.2	215.1	169.0	146.9	130.1	117.7	110.6	108.9
45°	3265.9	1391.3	385.0	270.8	189.4	153.1	129.2	111.5	100.0	93.8	92.0
47.5°	3527.9	1454.2	356.7	239.0	169.0	138.1	111.5	92.9	83.2	77.9	77.0
50°	3804.0	1515.2	327.5	208.0	151.3	123.0	93.8	77.0	69.0	64.6	62.8
52.5°	4083.7	1586.0	300.9	179.7	136.3	105.3	77.9	62.8	56.6	53.1	51.3
55°	4384.6	1639.1	275.3	157.5	121.3	89.4	64.6	52.2	46.9	42.5	41.6
57.5°	4738.6	1721.4	248.7	136.3	103.6	74.3	53.1	41.6	37.2	32.7	31.9
60°	5216.6	1817.9	220.4	120.4	85.0	61.1	43.4	33.6	28.3	24.8	23.9
62.5°	5846.7	1925.0	185.0	105.3	69.0	49.6	34.5	26.6	20.4	15.9	15.9
65°	6645.9	2099.4	151.3	88.5	56.6	40.7	26.6	19.5	11.5	7.1	7.1
67.5°	7112.4	2129.5	122.1	72.6	46.0	34.5	22.1	13.3	3.5	0.9	0.0
69°	*6962.8*	*1955.1*	*103.6*	*62.0*	*39.8*	*32.7*	*20.4*	*9.7*	*1.8*	*0.0*	*0.0*
70°	6681.3	1787.8	91.2	54.9	36.3	31.0	19.5	7.1	1.8	0.0	0.0
72.5°	5521.0	1272.7	69.0	40.7	26.6	27.4	17.7	4.4	1.8	0.0	0.0
75°	4021.7	773.5	49.6	28.3	16.8	20.4	12.4	1.8	0.9	0.0	0.0
77.5°	2237.4	364.6	31.0	15.9	10.6	12.4	6.2	0.0	0.0	0.0	0.0
80°	726.6	99.1	14.2	8.9	6.2	7.1	2.7	0.0	0.0	0.0	0.0
82.5°	134.5	28.3	8.0	4.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.2	11.5	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.5	0.9	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

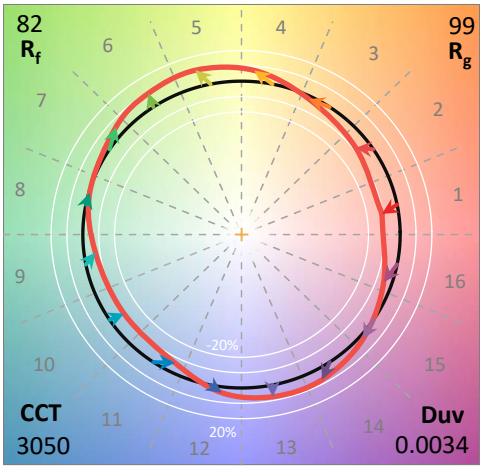
Test Information

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

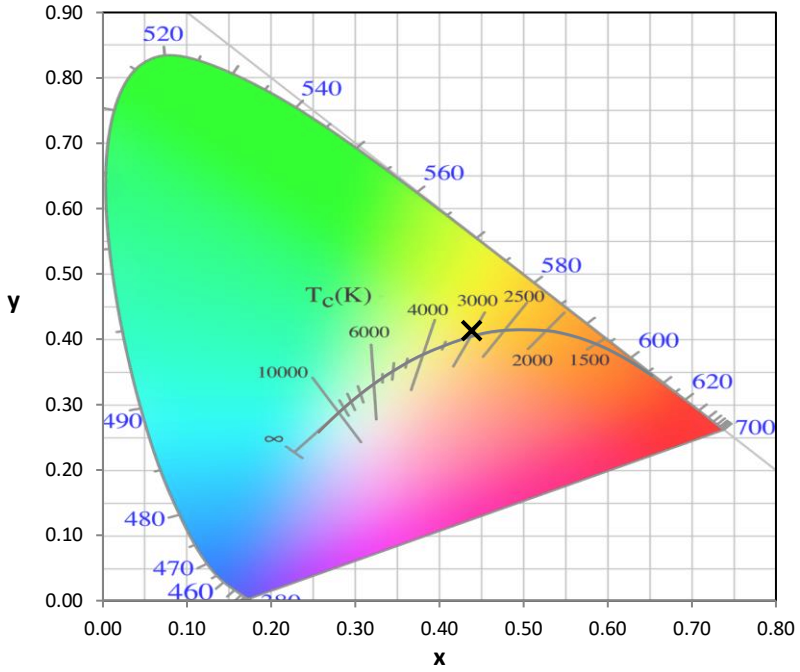
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

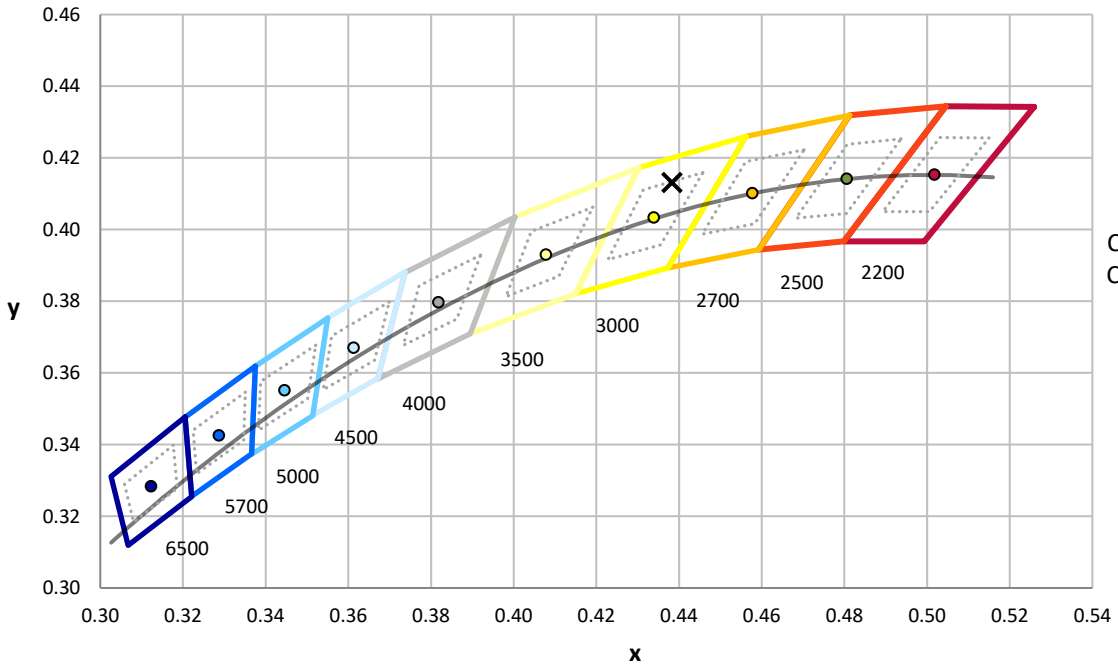
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

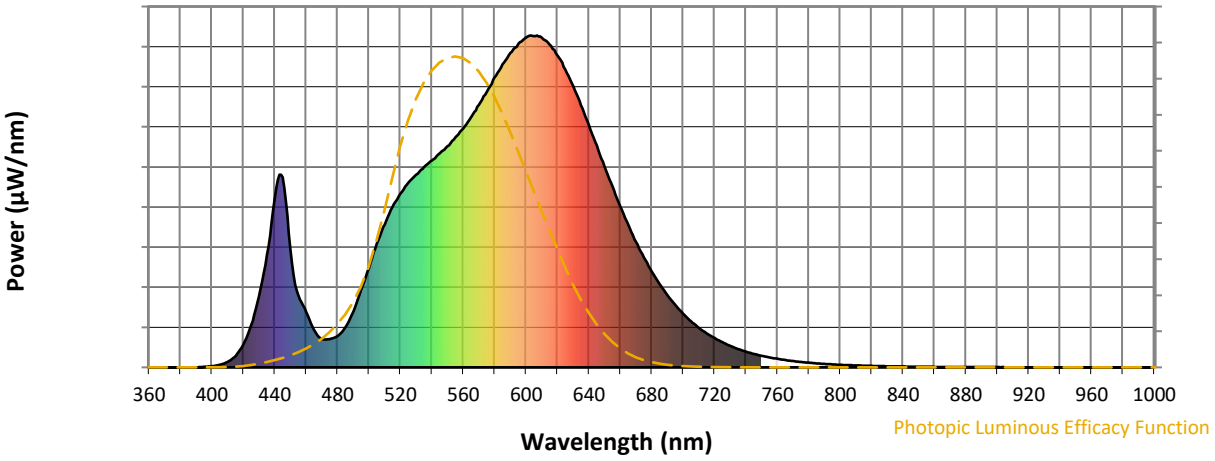


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

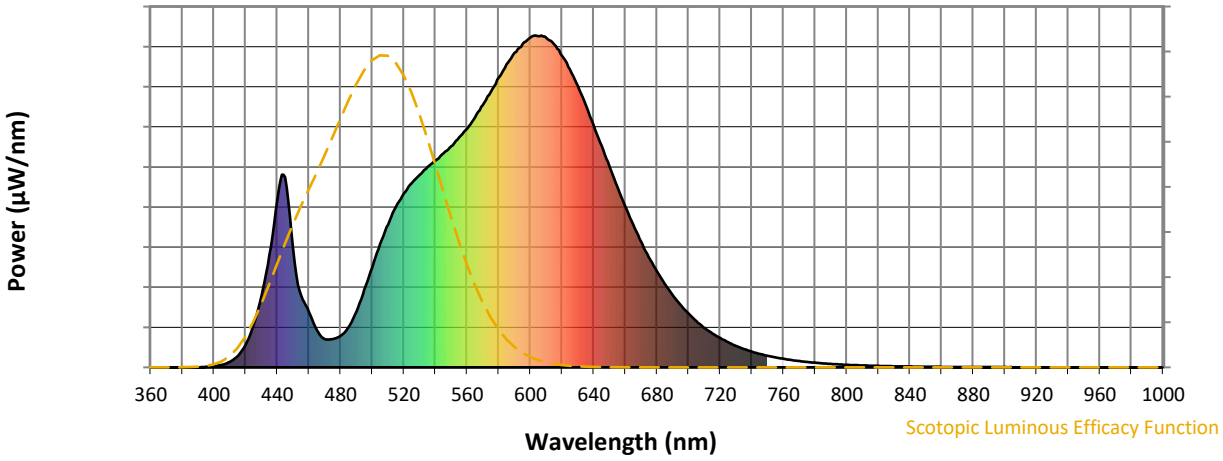


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

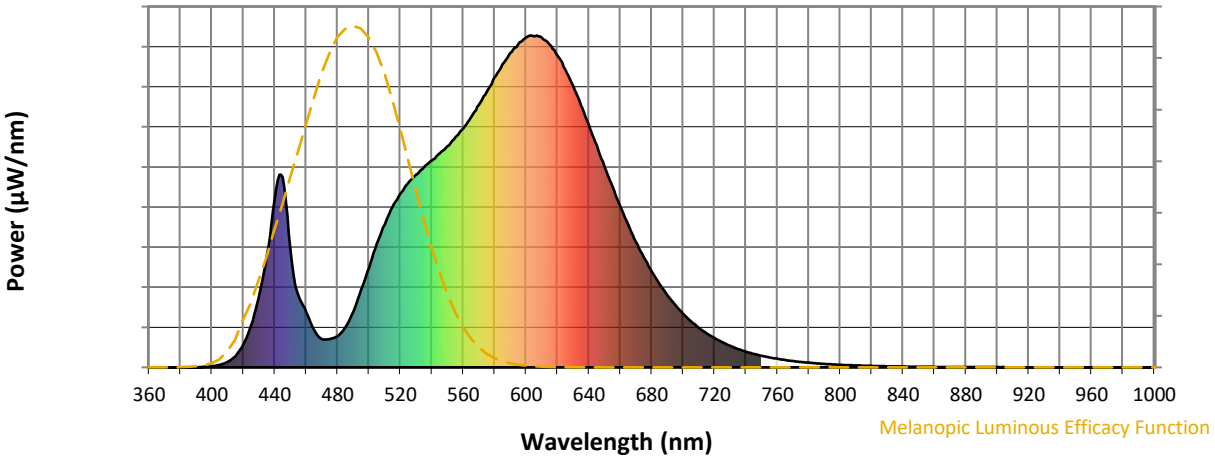


Scotopic Lumens: NR **S/P: 1.27**

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			

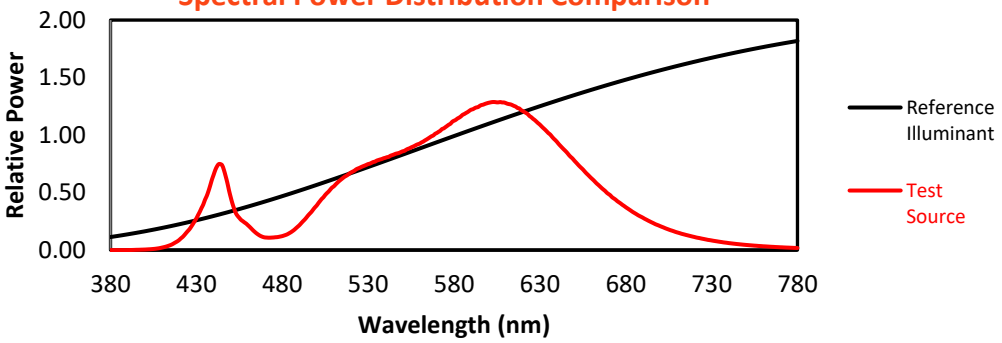
REPORT NUMBER: SP1-2408-195-9

TM-30-18

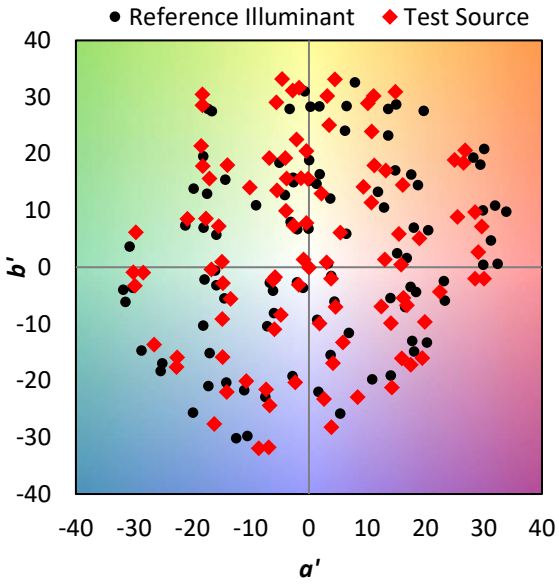
Summary

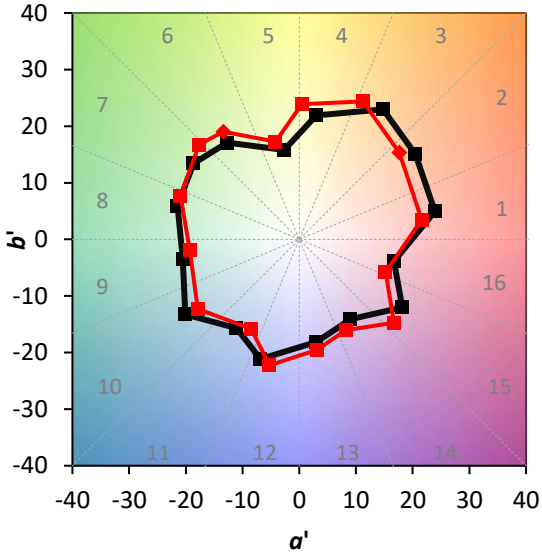
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

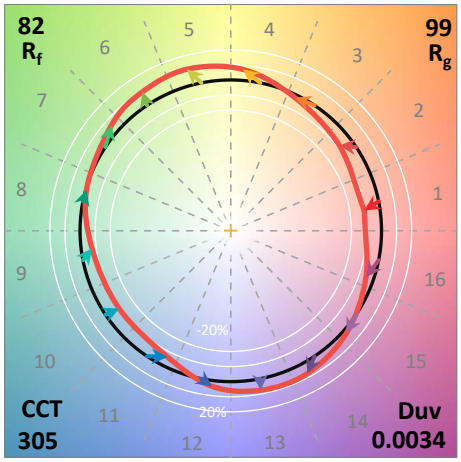
Spectral Power Distribution Comparison

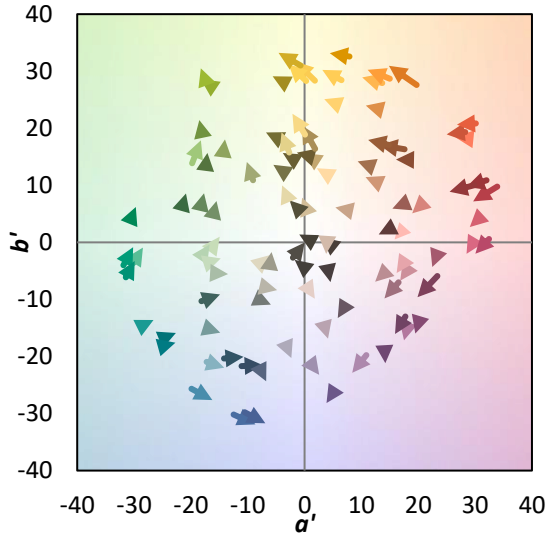


Color Vector Graphics







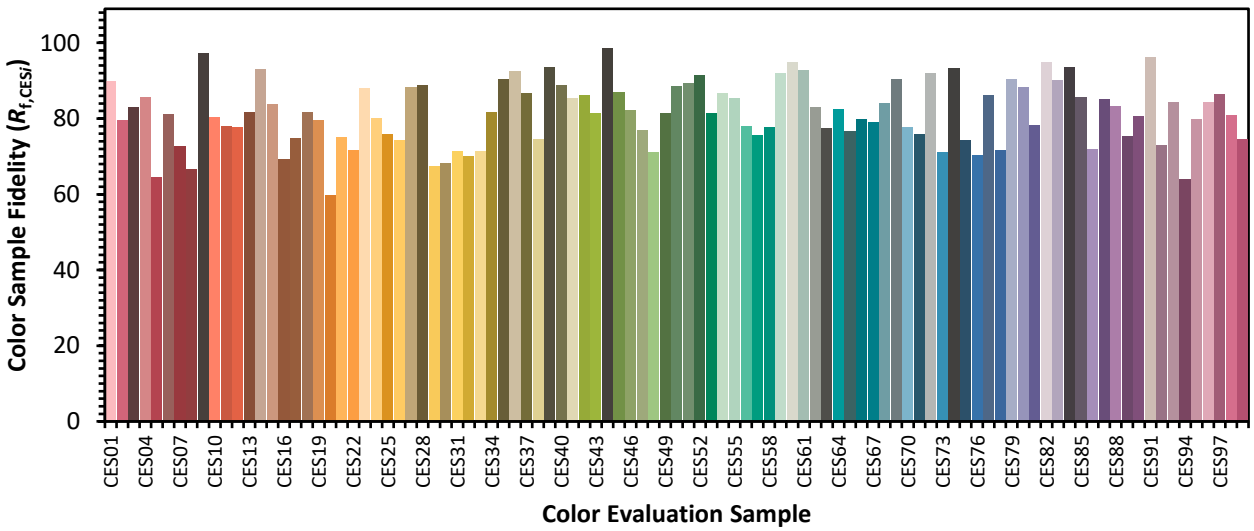


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

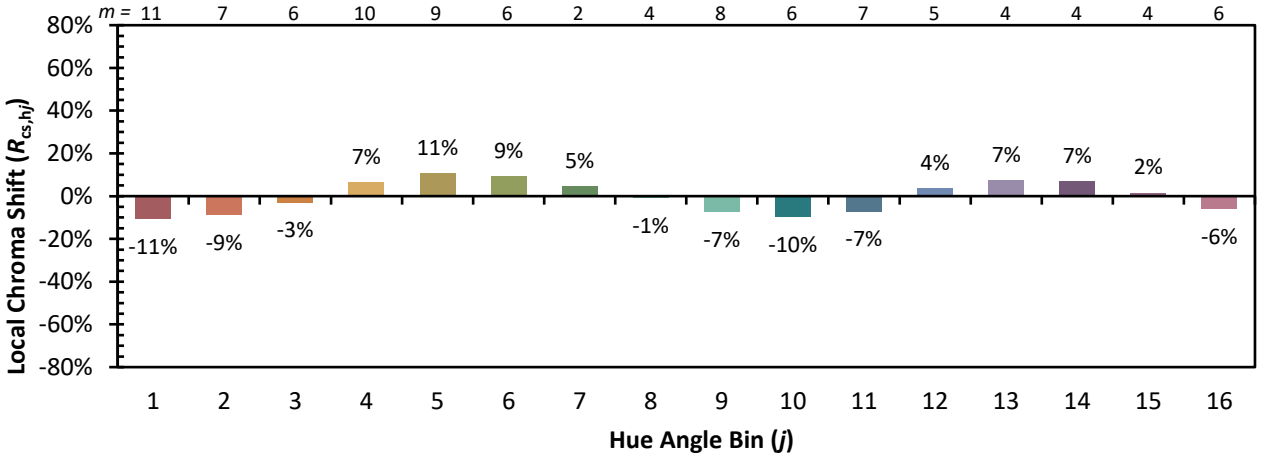
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

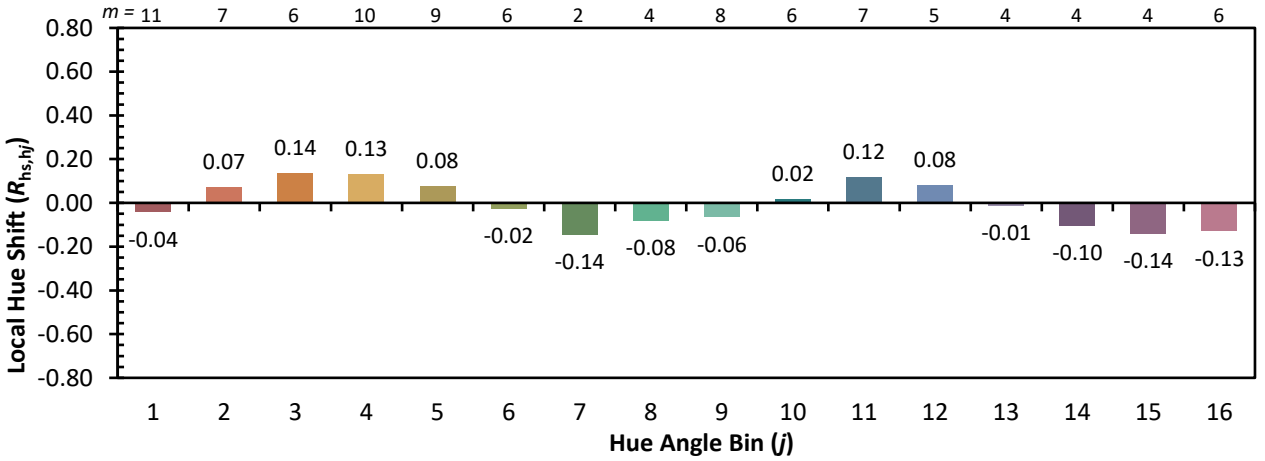


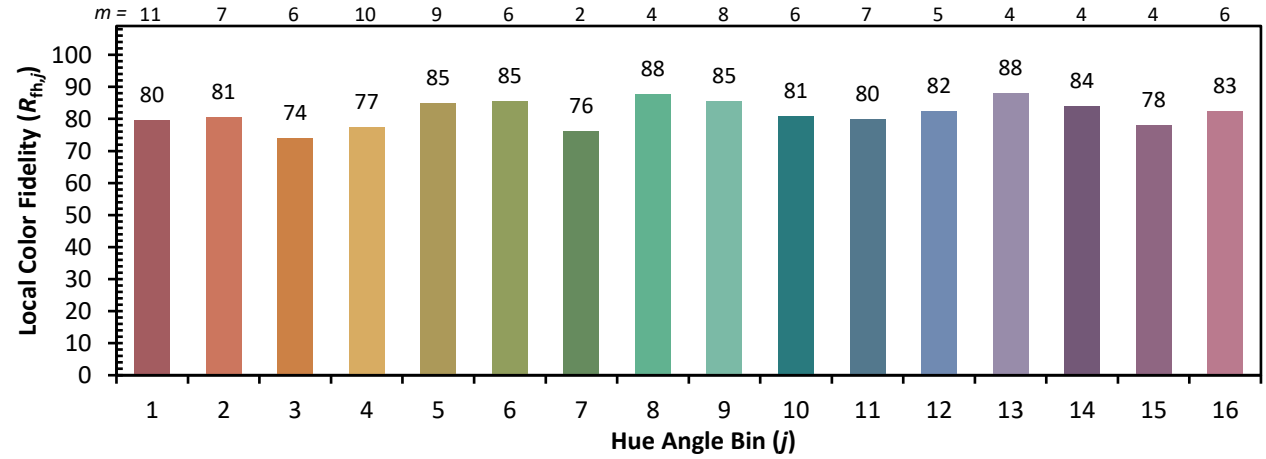
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



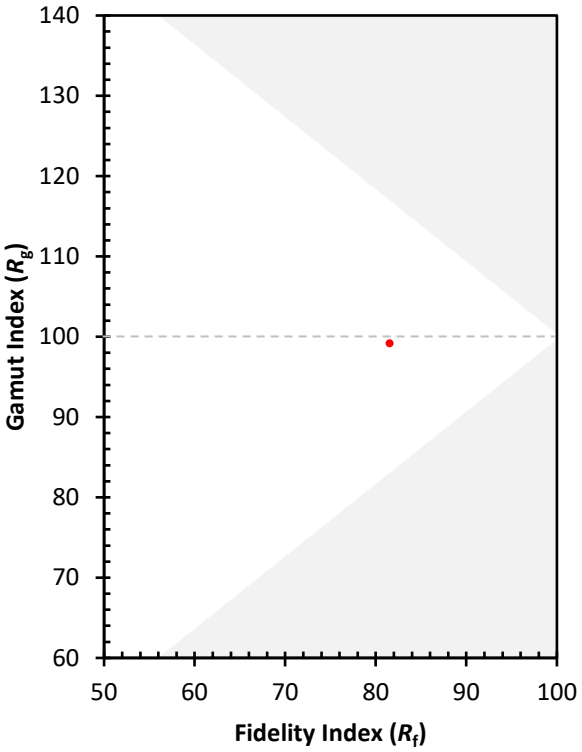


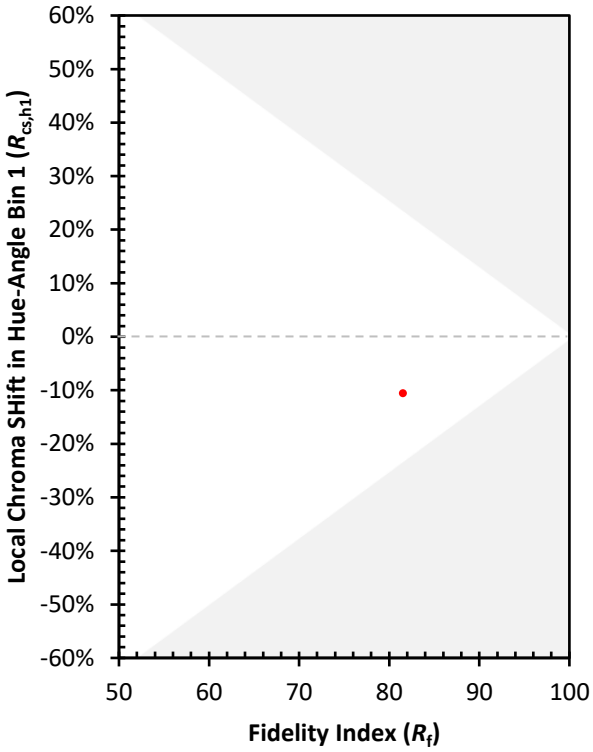


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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