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: P321781

Luminaire Tested: **GLEON-SA7D-830-U-T3R-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:	P321781
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7D-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	33542 lumens
Efficiency:	N/A
Efficacy:	74.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	448
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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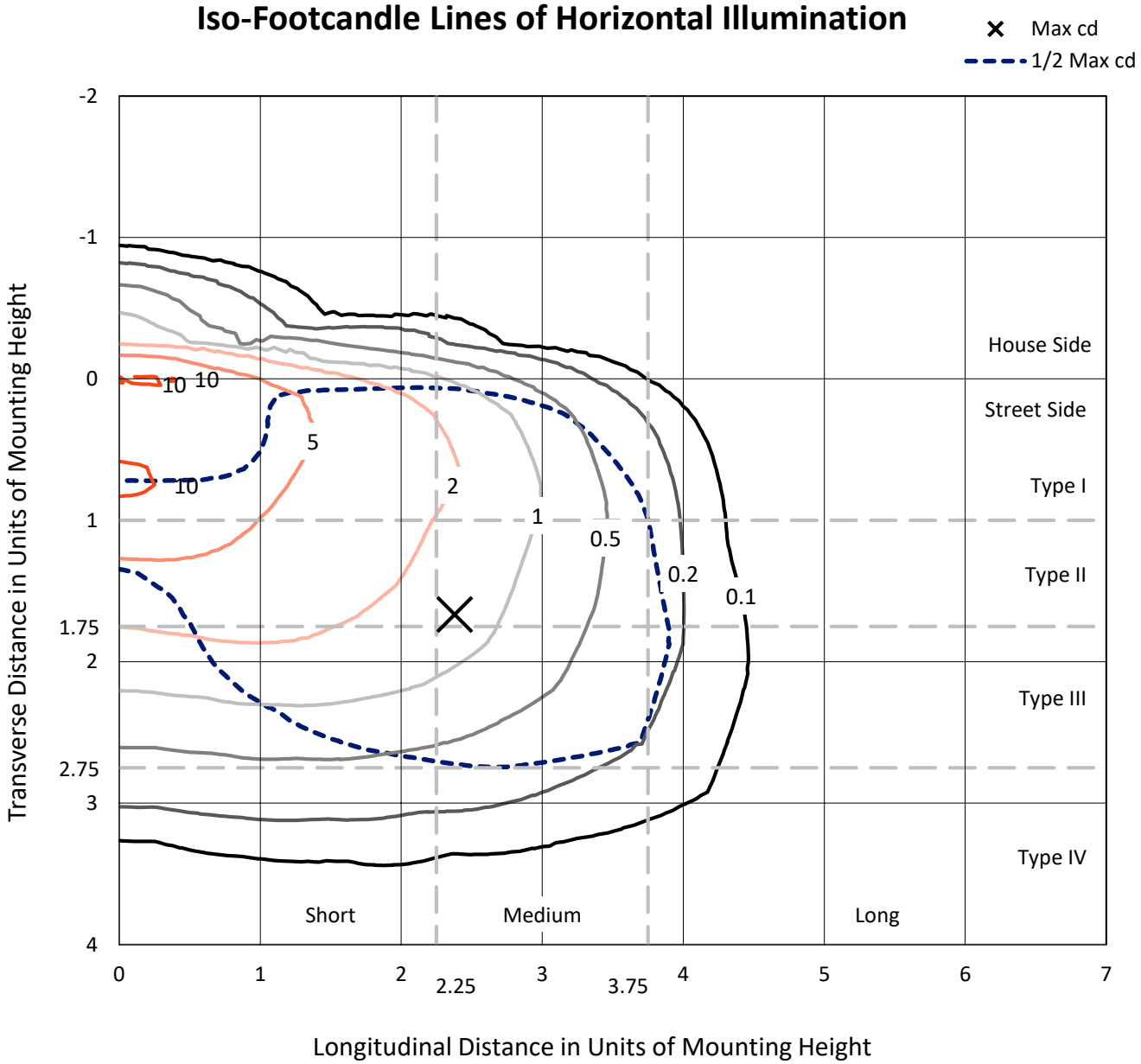
Scaled Data Report

REPORT NUMBER: P321781
CATALOG NUMBER: GLEON-SA7D-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type III - Medium - N/A

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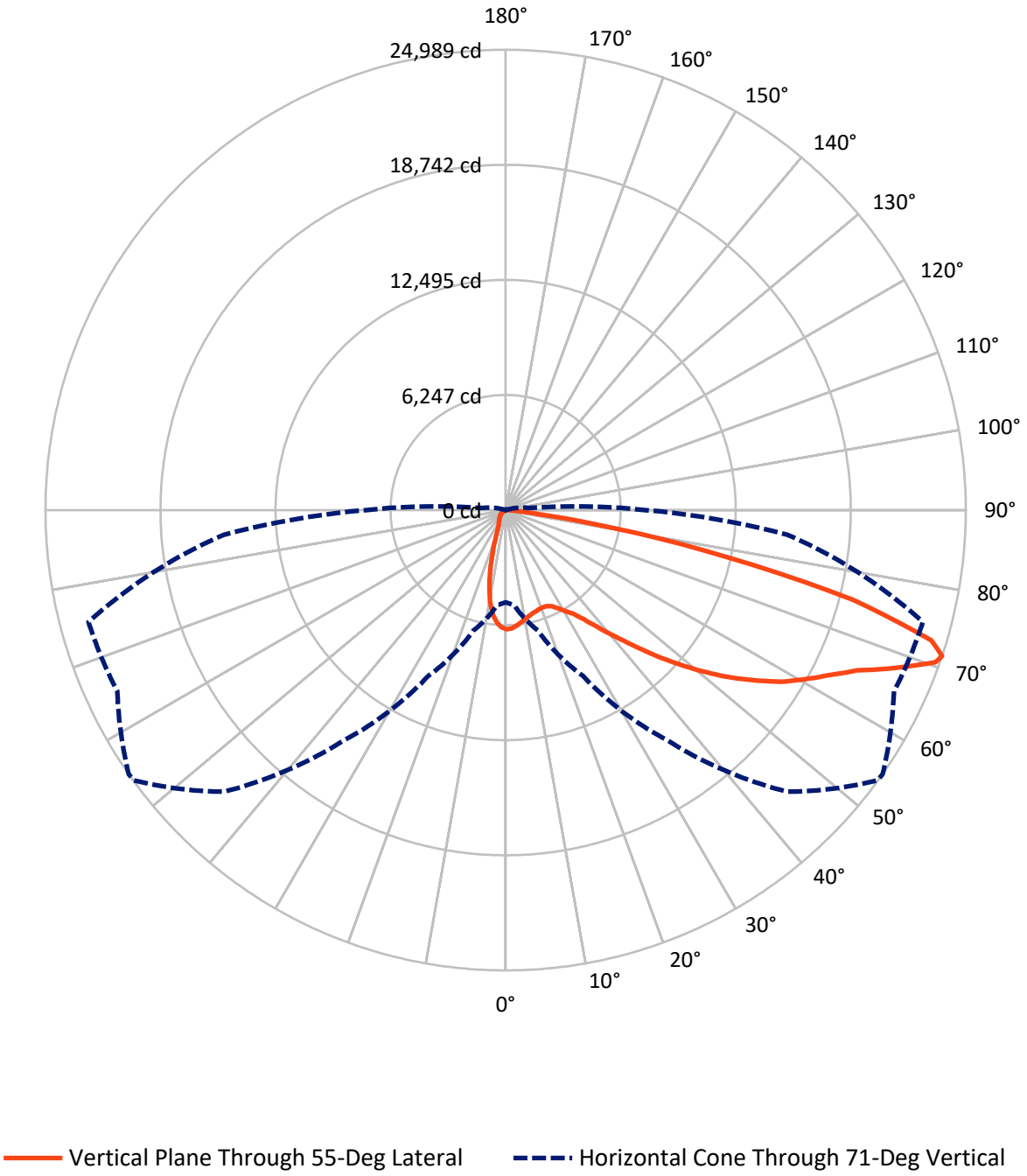
Luminous Intensity Polar Plot



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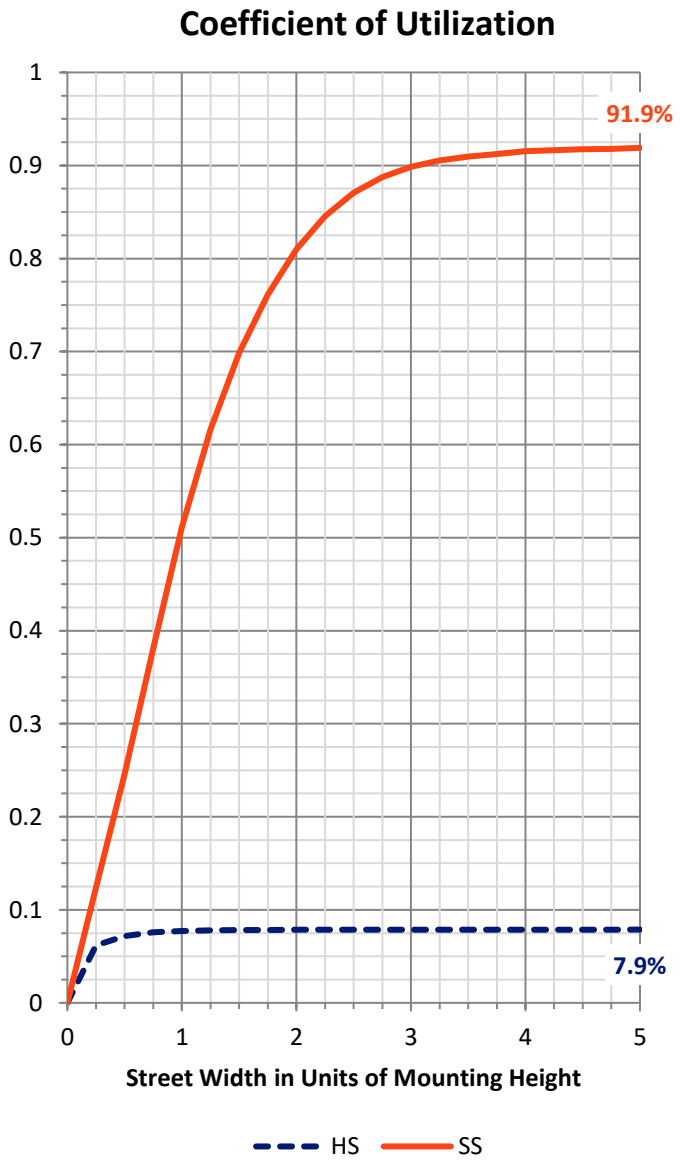
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2655.6	0.0	2655.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	30886.4	0.0	30886.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	33542.0	0.0	33542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	1.6
10°-20°	1245.2	3.7
20°-30°	2001.0	6.0
30°-40°	3399.8	10.1
40°-50°	5276.9	15.7
50°-60°	7094.7	21.2
60°-70°	8679.1	25.9
70°-80°	5074.5	15.1
80°-90°	219.3	0.7
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°	33542.0	100.0
0°-180°	33542.0	100.0



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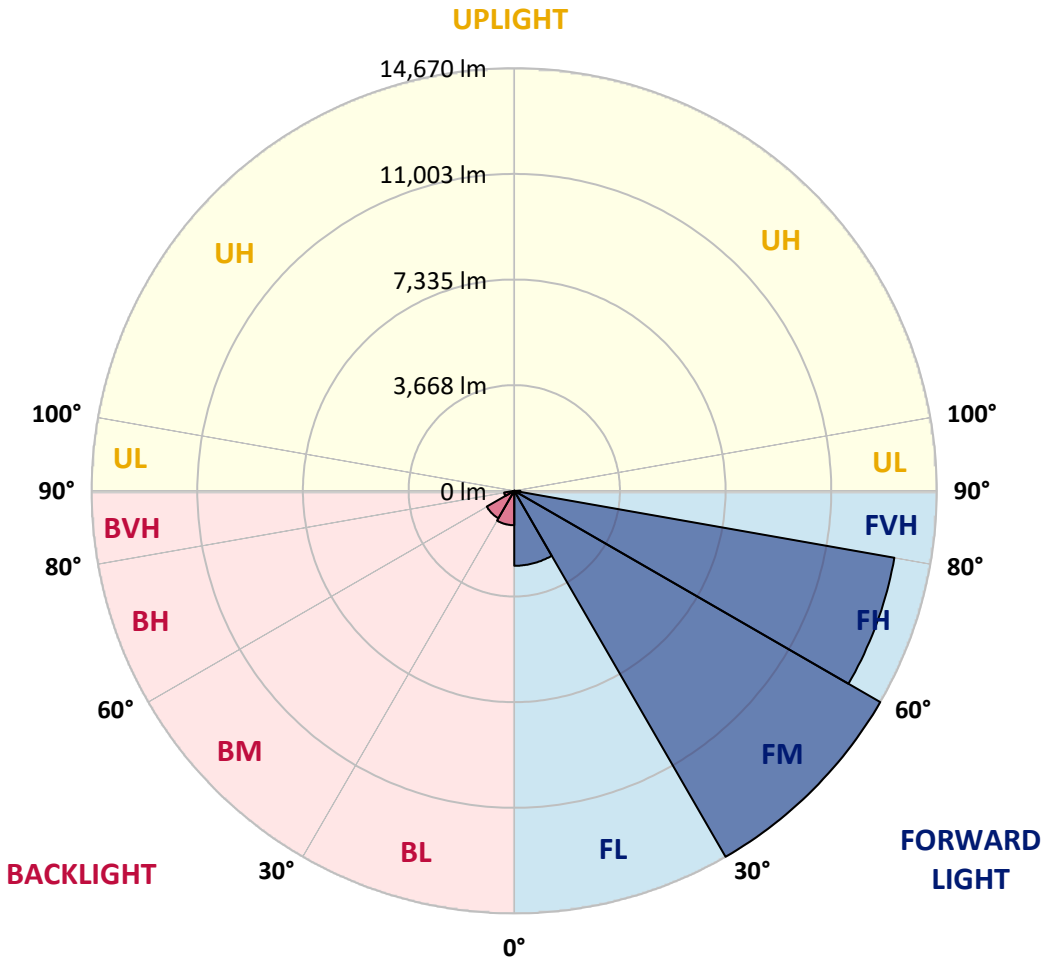
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2602.4	7.8			
FM	(30°-60°)	14670.3	43.7			
FH	(60°-80°)	13397.8	39.9			G5
FVH	(80°-90°)	215.9	0.6			G2/225
BL	(0°-30°)	1195.3	3.6	B3/2500		
BM	(30°-60°)	1101.1	3.3	B2/2500		
BH	(60°-80°)	355.8	1.1	B1/500		G1/500
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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Scaled Data Report

REPORT NUMBER: P321781
CATALOG NUMBER: GLEON-SA7D-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7
2.5°	6278.9	6286.5	6313.6	6325.6	6354.2	6402.4	6426.5	6428.0	6467.2	6482.2	6494.3
5°	5834.6	5879.8	5925.0	5973.2	6060.5	6176.5	6291.0	6301.5	6428.0	6521.4	6571.1
7.5°	5452.1	5492.7	5547.0	5623.8	5747.3	5929.5	6120.8	6143.4	6382.8	6595.2	6706.7
10°	5059.0	5092.1	5170.4	5283.4	5453.6	5697.6	5955.1	5992.8	6342.2	6694.6	6890.4
12.5°	4638.8	4658.4	4753.2	4915.9	5165.9	5476.2	5815.0	5864.7	6316.6	6809.1	7107.3
15°	4319.5	4328.5	4418.9	4587.6	4873.7	5277.4	5706.6	5766.9	6322.6	6946.1	7343.7
17.5°	4238.2	4242.7	4290.9	4406.8	4659.9	5099.7	5620.8	5694.6	6340.7	7080.2	7581.7
20°	4568.0	4536.4	4486.7	4468.6	4577.0	4992.7	5569.6	5652.4	6364.8	7199.2	7795.6
22.5°	5473.2	5379.8	5173.4	4897.8	4730.7	5000.2	5583.1	5665.9	6441.6	7345.2	8042.6
25°	6816.6	6687.1	6336.2	5794.0	5272.9	5217.1	5696.1	5780.4	6590.7	7520.0	8279.0
27.5°	8345.3	8217.3	7788.0	7013.9	6125.3	5646.4	5955.1	6033.4	6812.1	7675.1	8459.8
30°	9809.2	9773.1	9267.0	8387.5	7197.6	6342.2	6289.5	6355.7	6976.3	7768.5	8602.8
32.5°	11050.2	10993.0	10586.4	9730.9	8425.1	7178.1	6682.6	6702.1	7099.8	7888.9	8789.6
35°	12200.9	12130.1	11773.2	10964.4	9684.2	8199.2	7288.0	7259.4	7369.3	8131.4	9060.7
37.5°	13205.5	13270.2	12874.1	12104.5	10813.8	9261.0	8104.3	8018.5	7791.0	8526.0	9453.8
40°	14045.9	14045.9	13839.5	13197.9	12033.7	10358.9	9027.6	8914.6	8425.1	9134.5	9952.3
42.5°	14348.6	14413.4	14490.2	14127.2	13125.7	11500.6	10056.2	9938.7	9318.2	9997.5	10581.9
45°	14366.7	14469.1	14862.2	14860.7	14112.1	12634.7	11215.9	11160.2	10462.9	11106.0	11362.0
47.5°	14112.1	14240.2	14887.8	15255.3	14893.8	13690.4	12484.1	12414.8	11807.8	12464.5	12178.3
50°	13719.1	13860.6	14613.7	15410.4	15425.5	14609.2	13820.0	13716.0	13288.3	14017.3	13021.7
52.5°	13015.7	13289.8	14368.2	15446.6	15774.9	15402.9	15091.1	15045.9	14945.0	15512.8	13693.5
55°	11511.1	11815.3	13752.2	15458.6	16098.7	16106.2	16282.4	16294.5	16497.8	16910.5	14193.5
57.5°	10800.2	10971.9	12676.8	15515.8	16579.1	16904.5	17496.4	17589.7	17904.5	18237.4	14764.3
60°	10352.9	10556.2	12146.7	15437.5	17333.7	17951.2	18621.4	18653.0	18990.4	19606.4	15536.9
62.5°	9996.0	10196.3	11812.3	15136.3	18181.6	19210.3	19720.9	19723.9	19976.9	21237.5	16415.0
65°	9114.9	9283.6	11136.1	14797.4	18741.9	20455.8	20998.0	20978.5	21184.8	22957.5	17434.6
67.5°	7840.8	7970.3	9755.0	13512.7	18531.0	21588.4	22925.8	22861.1	22611.1	24444.0	17835.2
70°	6062.0	6108.7	7688.6	11261.1	16555.0	22023.7	24788.9	24755.7	23486.1	24177.4	16366.8
71°	5010.8	5164.4	6775.9	9938.7	15231.2	21621.6	24969.6	24989.2	23266.2	23451.5	15356.2
72.5°	2909.8	3040.8	4911.4	7632.9	12931.4	19943.8	24032.8	24174.4	22239.1	21330.9	13116.6
75°	623.5	667.2	1820.9	3694.5	7113.3	13978.1	18969.3	19473.9	18125.9	14511.3	7905.5
77.5°	433.8	468.4	780.2	1676.3	2351.0	6907.0	11783.7	12353.0	10828.9	5453.6	2530.2
80°	343.4	382.5	608.5	828.4	635.6	2227.5	5519.9	5867.8	3611.6	1216.9	426.2
82.5°	191.3	227.4	474.4	447.3	244.0	423.2	1545.3	1747.1	722.9	245.5	100.9
85°	55.7	67.8	305.7	325.3	103.9	81.3	263.6	326.8	137.1	64.8	45.2
87.5°	0.0	0.0	147.6	125.0	30.1	12.0	24.1	27.1	27.1	27.1	30.1
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: P321781
CATALOG NUMBER: GLEON-SA7D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7
2.5°	6494.3	6504.8	6467.2	6417.5	6364.8	6300.0	6232.2	6179.5	6178.0	6152.4	6126.8
5°	6574.1	6568.1	6464.2	6306.0	6119.3	5925.0	5739.7	5530.4	5461.1	5375.3	5346.7
7.5°	6721.7	6679.5	6459.7	6113.3	5703.6	5297.0	4876.7	4453.5	4272.8	4110.1	4081.5
10°	6907.0	6827.1	6431.0	5824.1	5072.5	4322.5	3688.4	3113.1	2860.1	2665.8	2656.8
12.5°	7099.8	6977.8	6351.2	5387.3	4245.7	3191.4	2461.0	1894.7	1683.8	1548.3	1560.3
15°	7301.6	7119.3	6179.5	4798.4	3304.4	2165.8	1512.1	1179.3	1094.9	1060.3	1069.3
17.5°	7507.9	7217.2	5940.1	4089.1	2375.1	1397.7	1046.7	953.4	953.4	960.9	963.9
20°	7687.1	7269.9	5587.6	3293.8	1610.0	1018.1	915.7	902.2	909.7	921.7	923.2
22.5°	7864.8	7273.0	5128.3	2488.1	1126.6	891.6	872.0	866.0	870.5	884.1	885.6
25°	8009.4	7236.8	4552.9	1769.7	899.1	840.4	831.4	828.4	831.4	847.9	847.9
27.5°	8068.2	7105.8	3851.1	1244.0	805.8	783.2	780.2	783.2	787.7	799.7	801.2
30°	8074.2	6876.8	3086.0	900.6	730.5	706.4	712.4	722.9	718.4	715.4	718.4
32.5°	8089.3	6611.8	2340.5	741.0	667.2	629.5	622.0	622.0	603.9	593.4	587.4
35°	8139.0	6300.0	1697.4	665.7	602.4	558.8	530.1	497.0	462.4	444.3	439.8
37.5°	8217.3	5973.2	1215.4	616.0	545.2	495.5	441.3	382.5	332.8	319.3	319.3
40°	8360.4	5635.8	899.1	576.8	500.0	438.3	356.9	280.1	235.0	227.4	227.4
42.5°	8586.3	5280.4	716.9	542.2	460.9	379.5	272.6	203.3	170.2	165.7	164.2
45°	8821.2	4888.8	626.5	509.1	418.7	311.8	201.8	150.6	131.0	126.5	126.5
47.5°	9056.2	4471.6	582.9	477.4	378.0	242.5	150.6	119.0	109.9	109.9	111.5
50°	9255.0	4036.3	551.2	442.8	325.3	183.7	119.0	100.9	97.9	103.9	105.4
52.5°	9304.7	3608.6	512.1	399.1	260.6	140.1	97.9	88.9	88.9	88.9	88.9
55°	9274.6	3277.3	460.9	344.9	192.8	111.5	84.3	78.3	76.8	76.8	76.8
57.5°	9377.0	3081.5	369.0	268.1	138.6	90.4	73.8	69.3	66.3	64.8	64.8
60°	9583.3	2953.5	263.6	192.8	103.9	75.3	63.3	58.7	54.2	51.2	51.2
62.5°	9857.4	2842.0	195.8	143.1	79.8	60.2	52.7	48.2	42.2	39.2	39.2
65°	10068.3	2643.2	149.1	106.9	60.2	48.2	40.7	39.2	30.1	27.1	25.6
67.5°	9746.0	2206.4	120.5	78.3	45.2	37.7	31.6	30.1	18.1	15.1	15.1
70°	8358.8	1536.2	96.4	57.2	33.1	30.1	25.6	19.6	13.6	12.0	12.0
71°	*7580.2*	*1283.2*	*87.4*	*48.2*	*28.6*	*28.6*	*24.1*	*16.6*	*12.0*	*10.5*	*10.5*
72.5°	6297.0	911.2	73.8	37.7	25.6	30.1	25.6	15.1	12.0	10.5	9.0
75°	3655.3	381.0	51.2	25.6	19.6	36.1	33.1	13.6	9.0	7.5	7.5
77.5°	1099.5	140.1	28.6	16.6	15.1	31.6	37.7	12.0	4.5	1.5	1.5
80°	200.3	60.2	18.1	10.5	10.5	19.6	28.6	6.0	0.0	0.0	0.0
82.5°	70.8	30.1	10.5	6.0	4.5	9.0	13.6	0.0	0.0	0.0	0.0
85°	40.7	21.1	6.0	3.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
87.5°	27.1	6.0	0.0	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

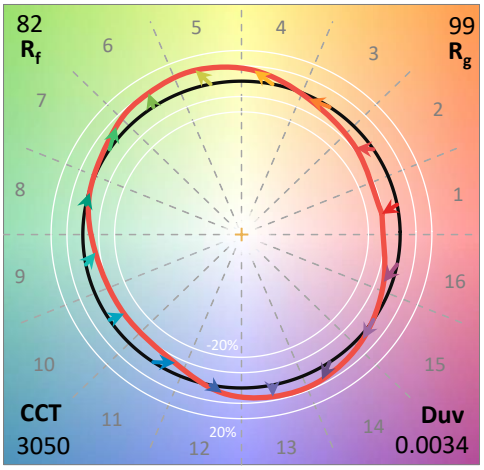
Test Information

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

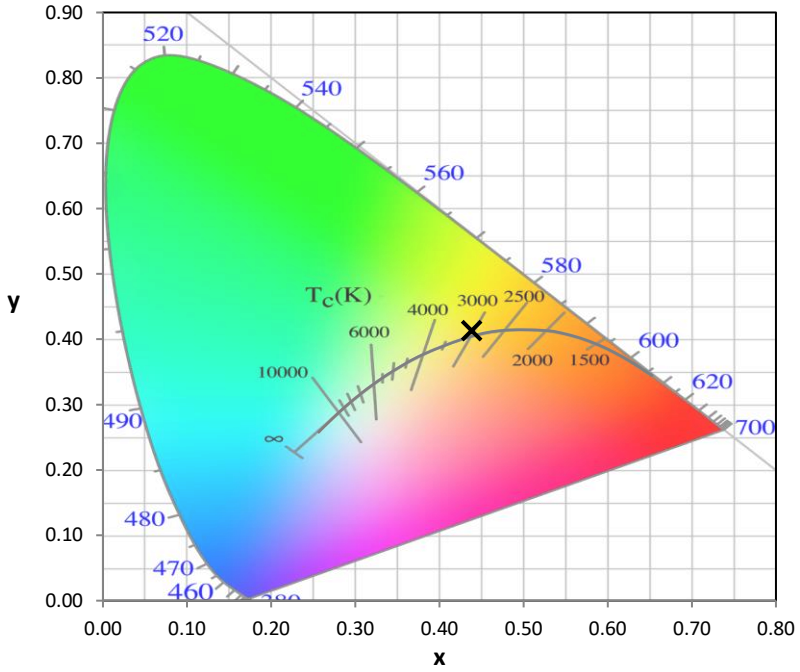
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

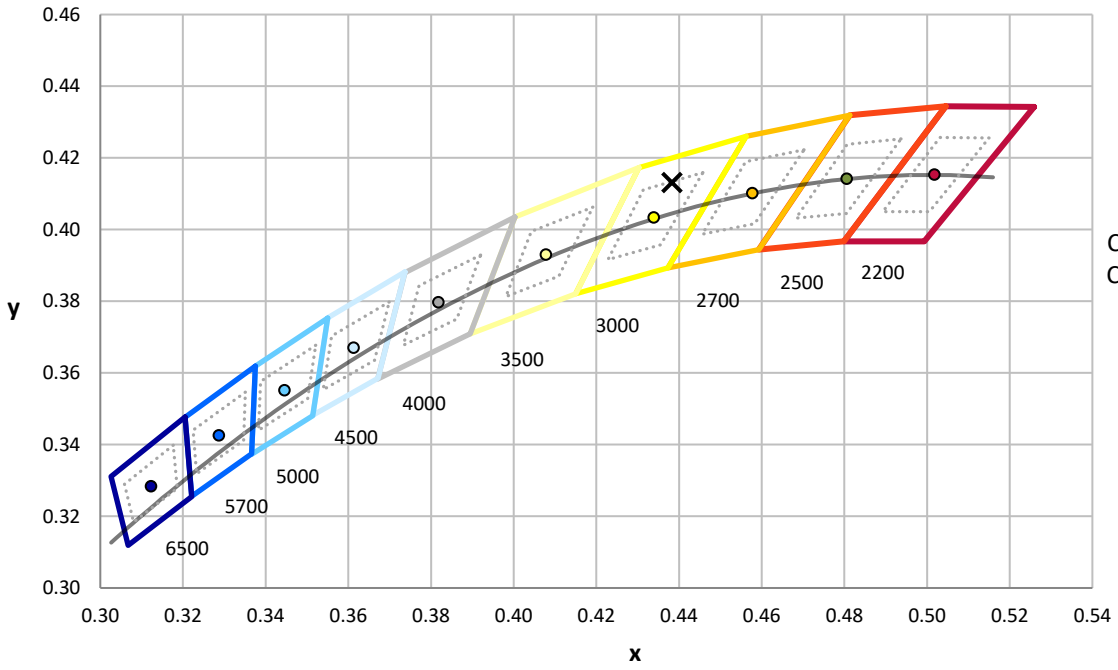
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

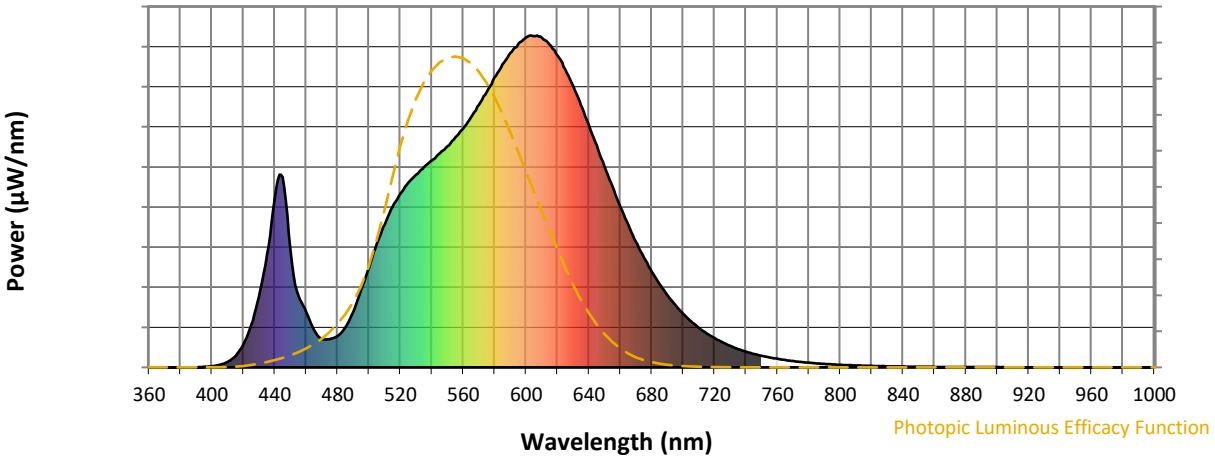


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

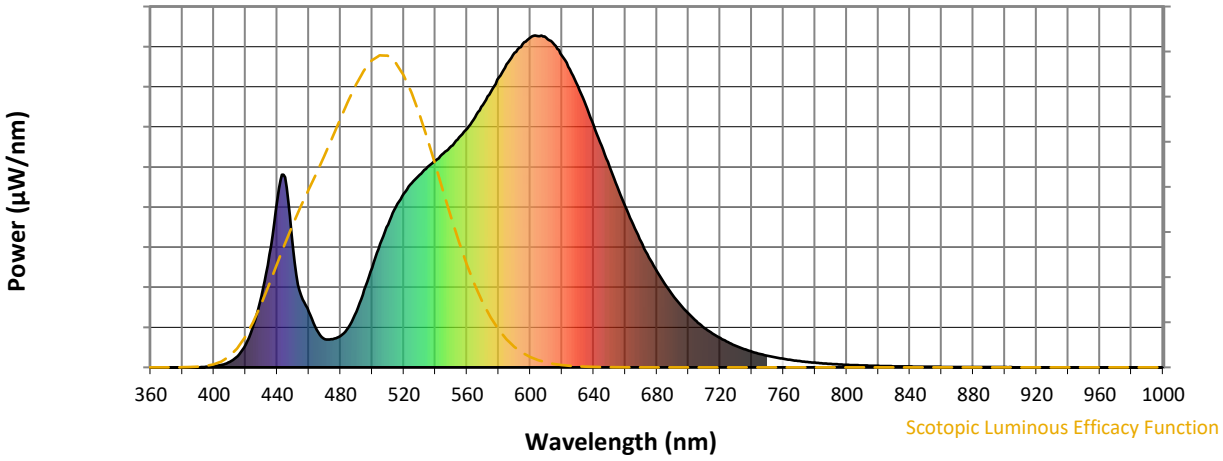


Photopic Lumens: NR

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

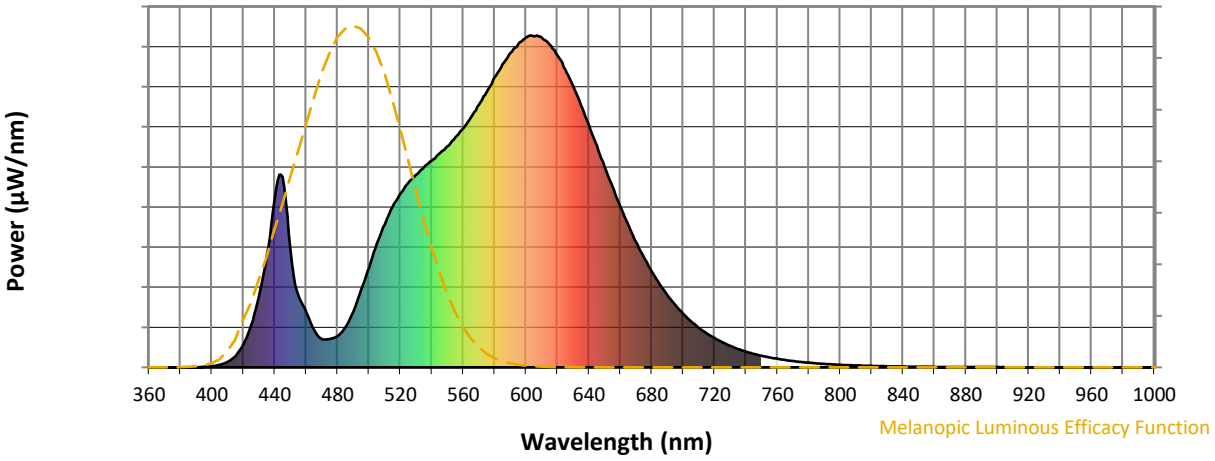


Scotopic Lumens: NR **S/P: 1.27**

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			

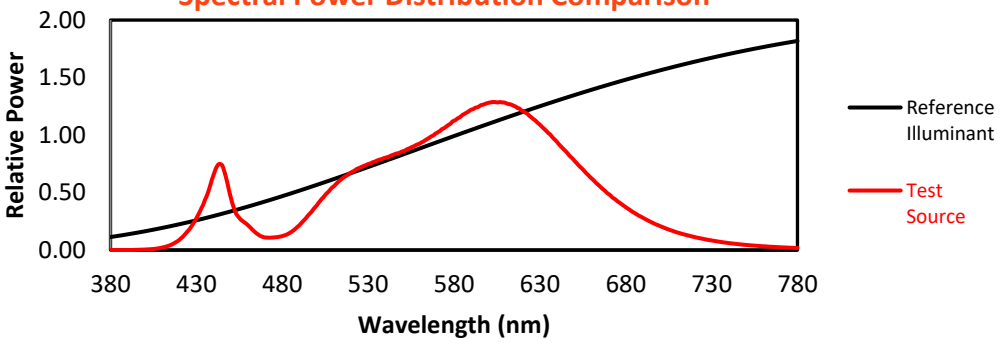
REPORT NUMBER: SP1-2408-195-9

TM-30-18

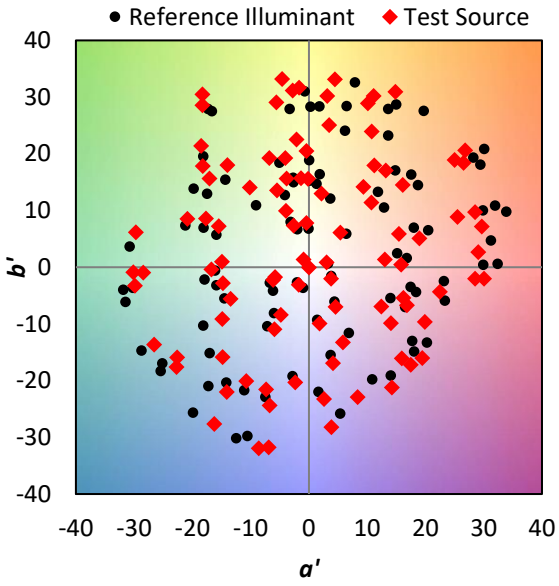
Summary

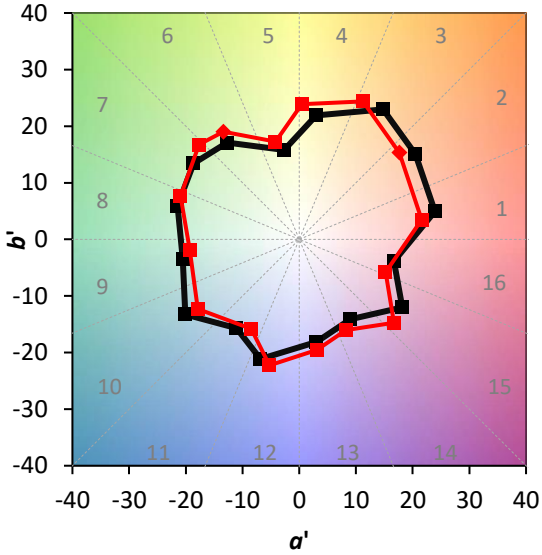
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

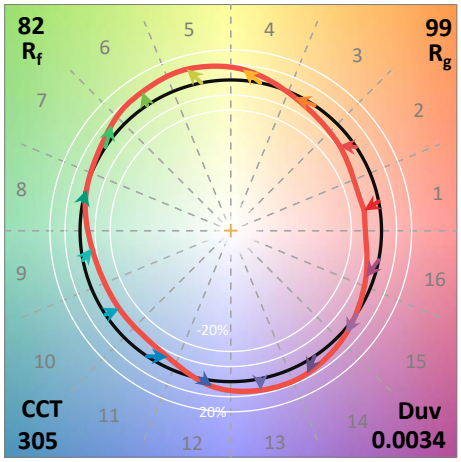
Spectral Power Distribution Comparison

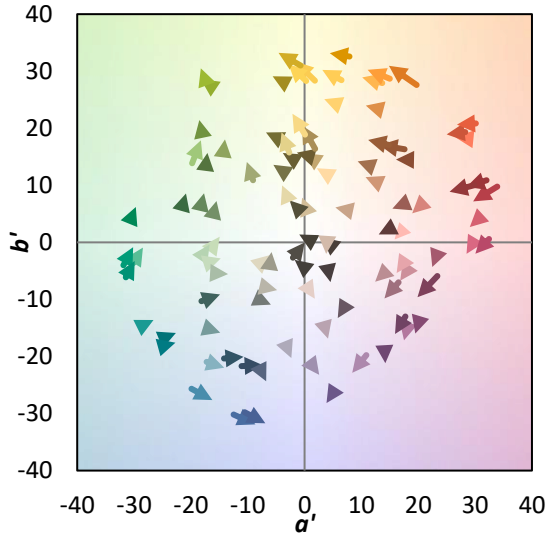


Color Vector Graphics







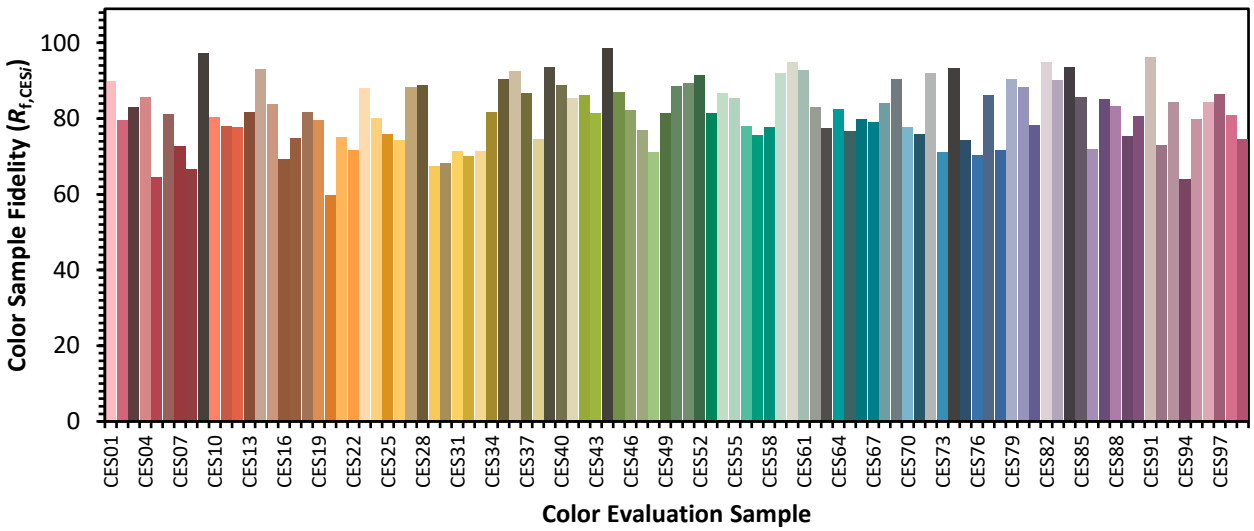


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

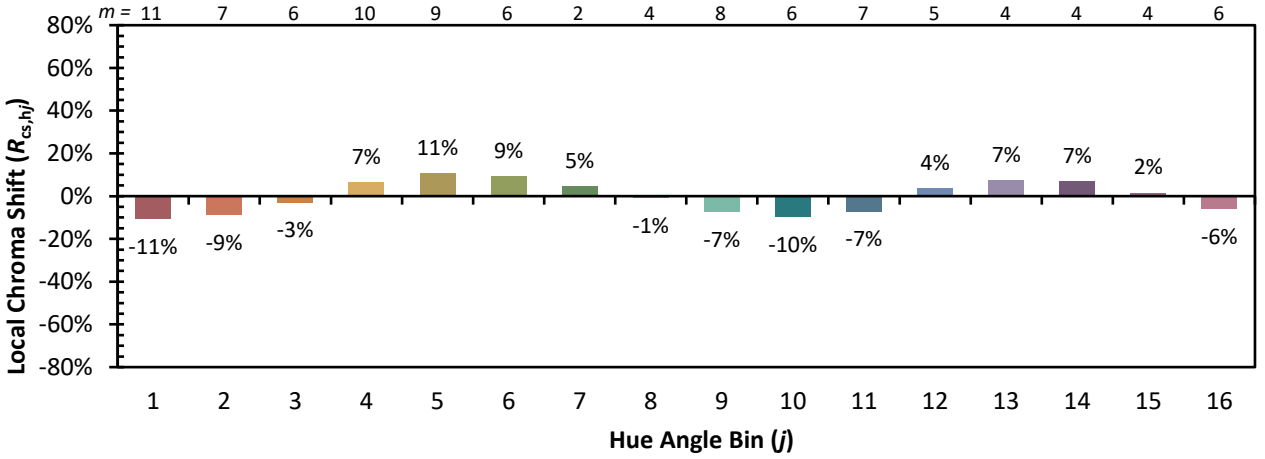
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

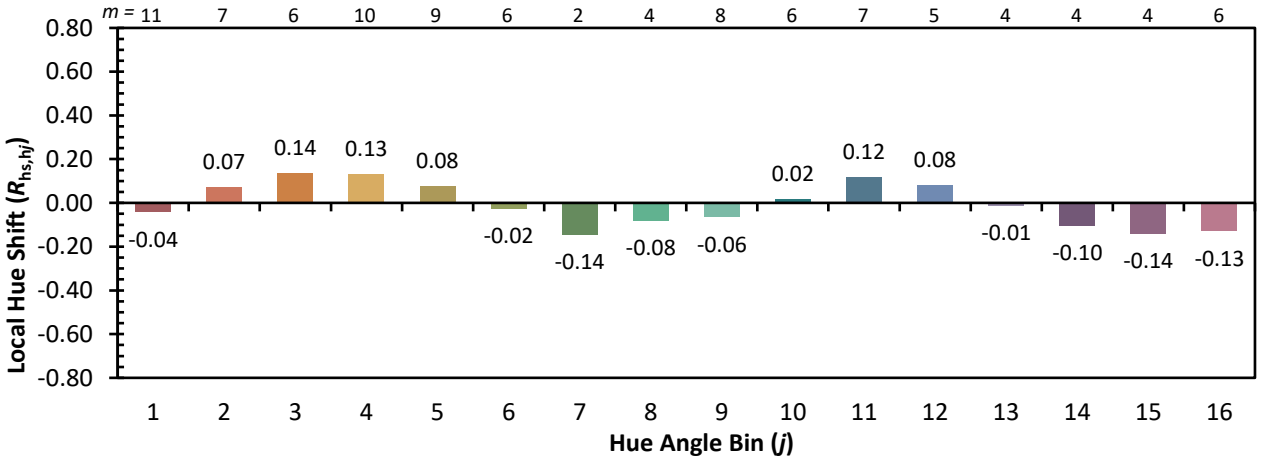


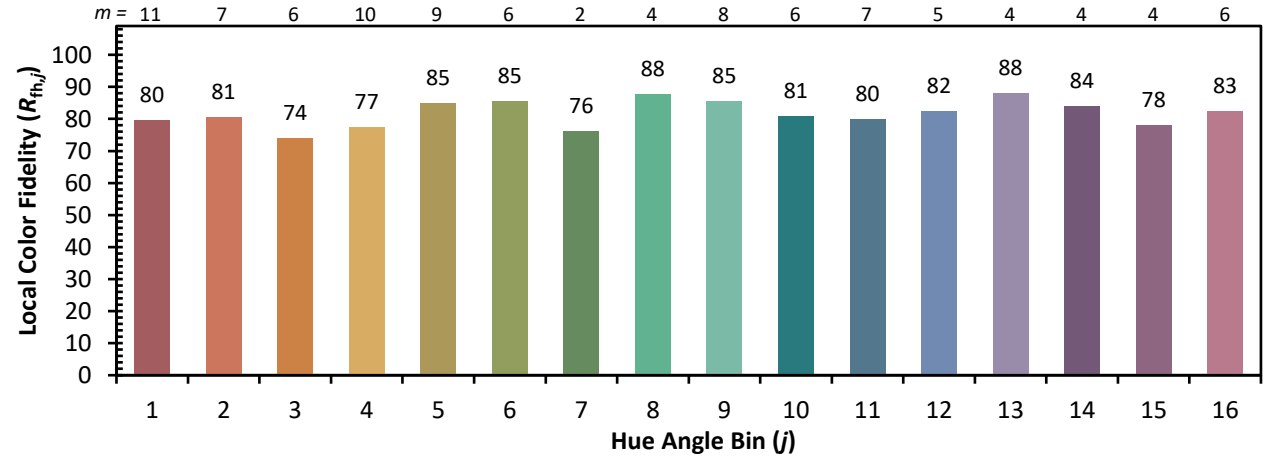
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



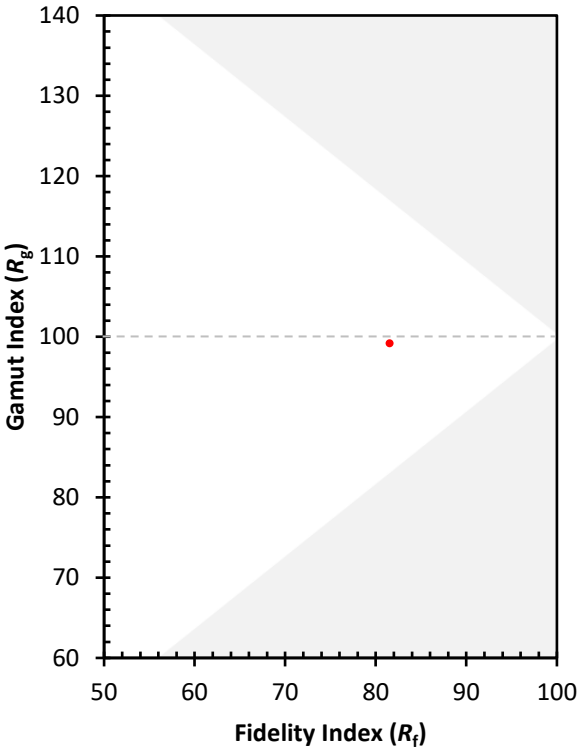


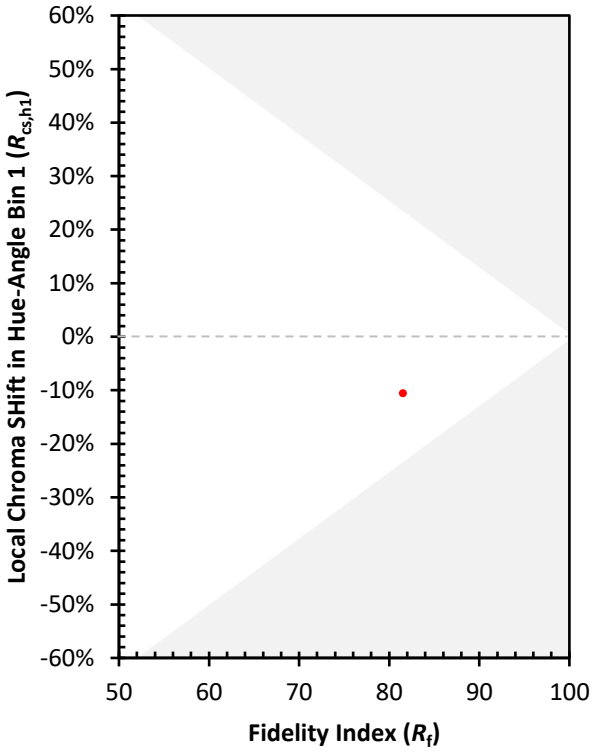


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)