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: P322727

Luminaire Tested: **GLEON-SA3C-830-U-T4FT-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:	P322727
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
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-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12185 lumens
Efficiency:	N/A
Efficacy:	73.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

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

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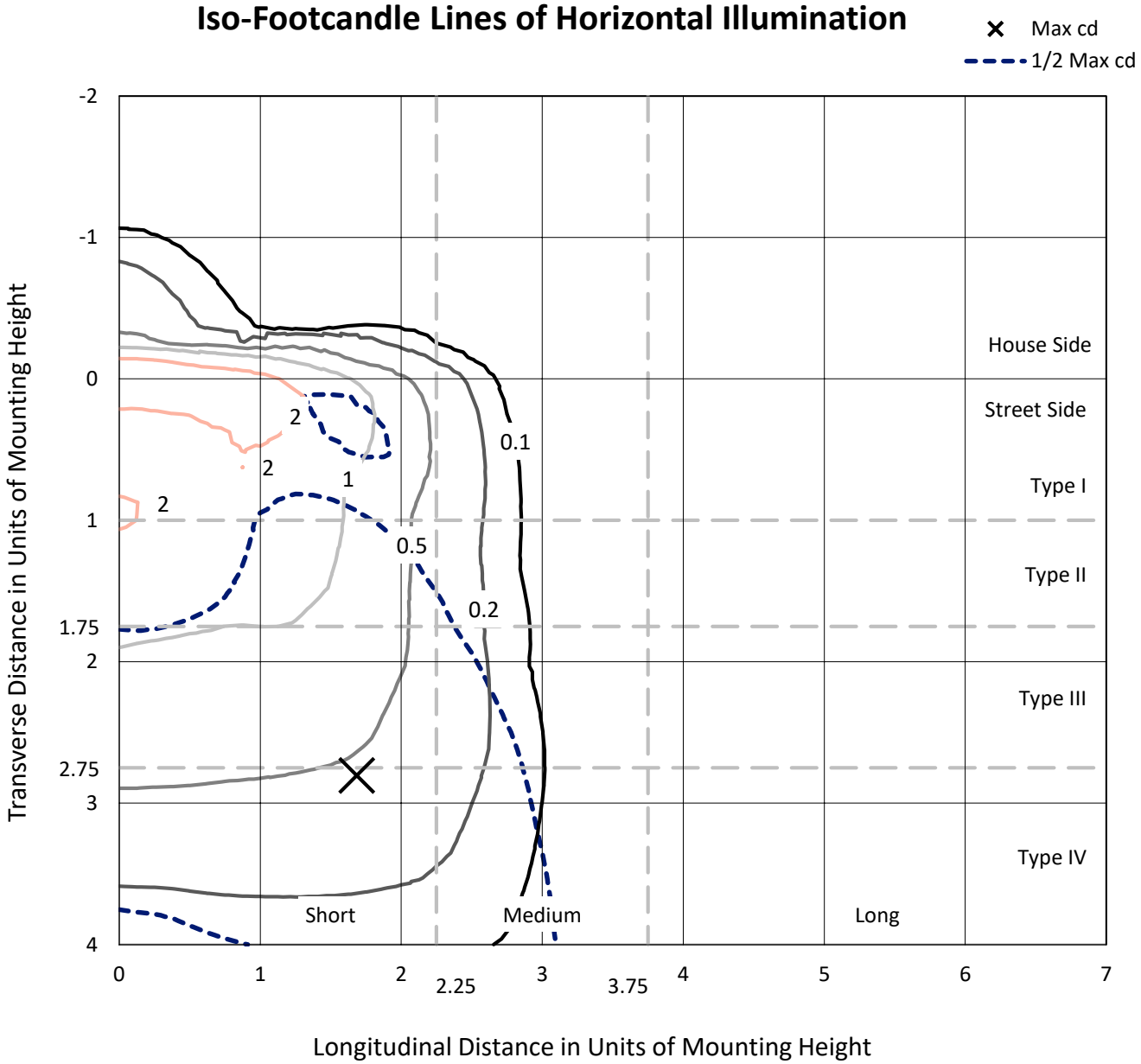
REPORT NUMBER: P322727
CATALOG NUMBER: GLEON-SA3C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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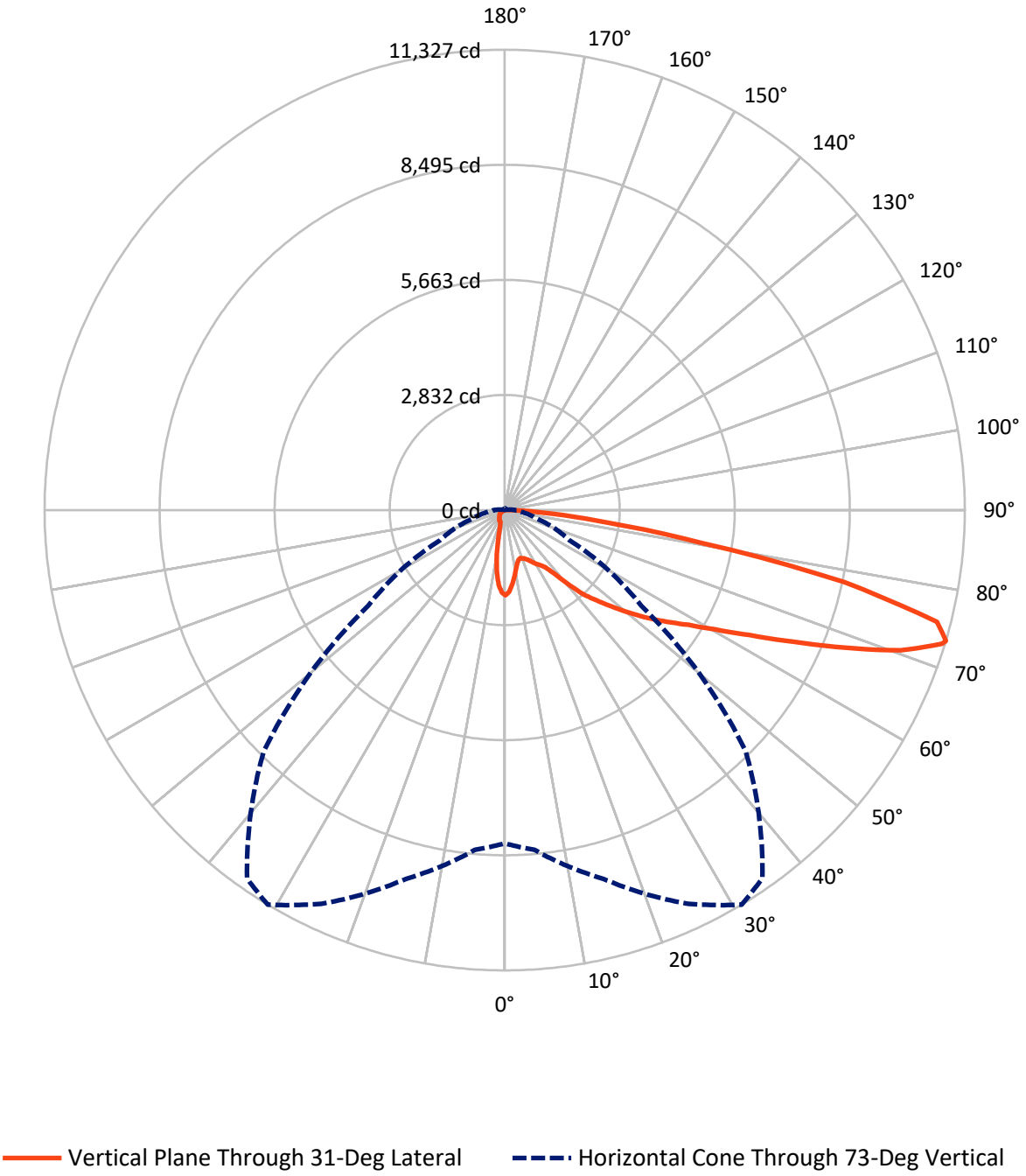
Luminous Intensity Polar Plot



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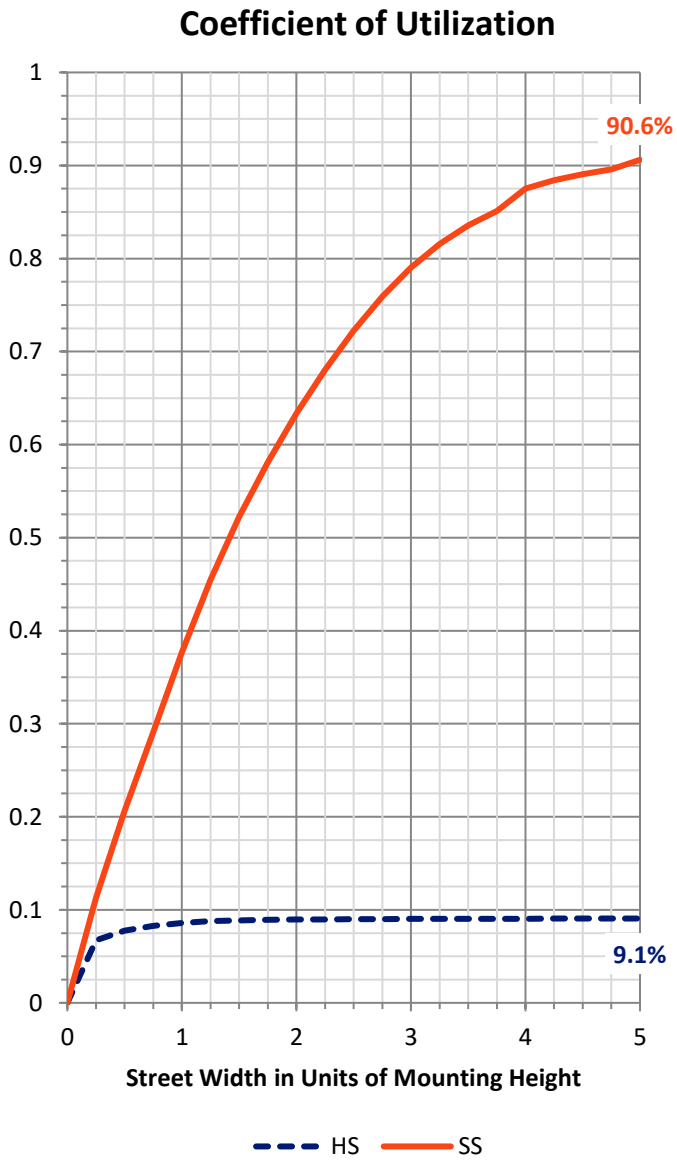
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.7	0.0	1110.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11074.3	0.0	11074.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	12185.0	0.0	12185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	1.4
10°-20°	377.4	3.1
20°-30°	565.5	4.6
30°-40°	899.7	7.4
40°-50°	1606.6	13.2
50°-60°	2493.0	20.5
60°-70°	3314.1	27.2
70°-80°	2492.9	20.5
80°-90°	262.0	2.1
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°	12185.0	100.0
0°-180°	12185.0	100.0



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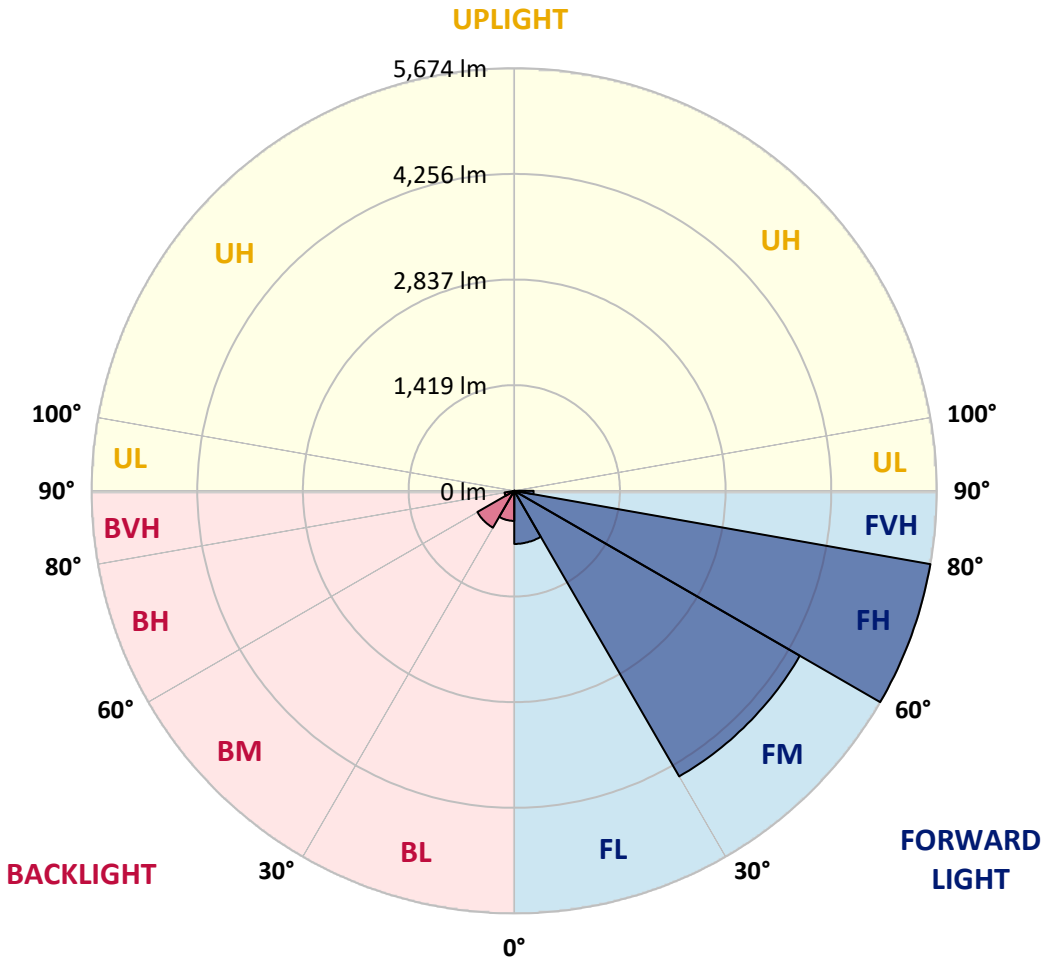
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	712.8	5.9			
FM	(30°-60°)	4427.6	36.3			
FH	(60°-80°)	5674.1	46.6			G3/7500
FVH	(80°-90°)	259.7	2.1			G3/500
BL	(0°-30°)	403.9	3.3	B1/500		
BM	(30°-60°)	571.7	4.7	B1/1000		
BH	(60°-80°)	132.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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 IV Short



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REPORT NUMBER: P322727
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5
2.5°	1986.7	1995.1	2004.0	2005.8	2020.7	2021.3	2042.8	2058.9	2075.0	2090.5	2095.9
5°	1782.8	1796.5	1812.6	1828.7	1860.3	1872.9	1925.3	1979.0	2030.3	2079.2	2103.0
7.5°	1565.2	1580.7	1603.3	1643.3	1678.5	1702.9	1785.8	1881.2	1976.6	2066.6	2118.5
10°	1366.6	1380.9	1404.8	1447.1	1501.4	1534.8	1646.3	1778.6	1918.8	2055.3	2141.8
12.5°	1240.2	1248.0	1261.1	1306.4	1355.3	1392.9	1524.0	1688.0	1871.1	2054.7	2179.3
15°	1217.0	1219.4	1208.6	1228.9	1267.1	1303.4	1436.4	1614.7	1834.7	2064.3	2228.2
17.5°	1253.9	1252.7	1217.0	1214.6	1245.0	1274.8	1393.5	1564.0	1809.1	2086.3	2291.4
20°	1310.0	1305.8	1243.8	1232.5	1264.7	1292.7	1390.5	1544.9	1799.5	2123.3	2368.3
22.5°	1384.5	1377.4	1280.2	1268.2	1302.8	1332.0	1427.4	1563.4	1807.9	2172.8	2457.8
25°	1476.9	1466.2	1342.8	1329.7	1364.8	1394.1	1493.6	1616.5	1832.9	2233.0	2571.1
27.5°	1581.3	1565.8	1443.0	1409.0	1448.9	1479.3	1581.9	1697.6	1872.3	2296.8	2710.0
30°	1679.7	1659.4	1548.5	1492.4	1541.3	1575.3	1677.3	1794.1	1935.5	2395.2	2900.2
32.5°	1778.6	1756.0	1642.7	1575.9	1620.0	1657.0	1775.7	1927.1	2054.1	2545.4	3153.0
35°	2006.4	1982.6	1843.6	1733.3	1732.7	1753.6	1913.4	2109.0	2210.9	2754.7	3454.7
37.5°	2389.8	2376.1	2243.7	2034.4	1978.4	1955.1	2101.2	2326.0	2436.3	3042.7	3795.2
40°	2809.6	2797.7	2649.2	2459.6	2374.3	2317.1	2370.7	2628.3	2754.7	3394.5	4142.8
42.5°	3283.6	3227.0	2962.2	2905.6	2829.3	2785.7	2737.4	3001.0	3145.9	3777.3	4487.5
45°	3714.1	3618.7	3275.3	3189.4	3172.1	3182.8	3209.7	3501.8	3585.9	4232.3	4830.9
47.5°	3970.5	3895.4	3631.8	3549.5	3544.8	3615.7	3818.5	4067.7	4024.2	4628.8	5133.2
50°	4214.4	4146.4	3927.6	3947.8	3969.9	4066.5	4509.5	4649.6	4424.3	4988.3	5410.5
52.5°	4411.7	4308.0	4193.5	4307.4	4415.9	4571.5	5222.7	5172.0	4708.1	5274.5	5647.8
55°	4525.6	4478.5	4534.0	4648.5	4852.4	5105.2	5895.8	5606.6	4915.6	5535.7	5805.8
57.5°	4943.0	4850.6	4960.9	5059.9	5325.8	5679.4	6472.4	5930.4	5065.2	5697.3	5842.2
60°	5448.0	5373.5	5438.5	5603.1	5962.0	6377.6	7011.4	6194.6	5143.3	5801.0	5748.0
62.5°	6251.8	6153.4	6112.9	6297.1	6772.9	7226.7	7420.5	6377.6	5126.1	5755.1	5424.8
65°	7328.6	7226.7	7045.4	7212.4	7817.6	8137.8	7877.8	6416.4	5006.8	5383.6	4607.9
67.5°	8431.7	8357.8	8202.8	8484.2	9030.4	9133.5	8361.4	6322.2	4622.8	4365.2	3255.6
70°	9160.4	9128.8	9229.5	9852.0	10339.2	10309.4	8805.0	5815.9	3603.2	2684.4	1610.5
72.5°	8635.1	8786.5	9530.6	10659.4	11254.4	11011.2	8577.2	4466.0	2059.5	1032.7	465.7
73°	8199.8	8393.6	9395.3	10689.8	11326.6	11060.0	8385.8	4099.3	1755.4	815.1	353.0
75°	5704.4	5942.3	7778.2	9955.8	10989.1	10537.7	6990.0	2509.1	813.3	361.3	142.5
77.5°	2769.6	2945.5	4282.9	7193.3	8546.2	8233.2	4351.5	934.9	367.3	226.0	65.6
80°	1033.9	1149.6	1859.1	3661.0	4938.8	5068.2	1914.0	353.6	244.5	181.9	33.4
82.5°	270.7	301.7	685.7	1632.6	2531.1	2649.2	603.4	178.3	178.9	149.7	20.3
85°	86.5	99.0	214.1	732.8	1192.5	1047.0	157.4	86.5	130.0	111.5	11.3
87.5°	10.7	13.7	68.0	172.3	263.0	146.1	24.4	25.6	55.5	62.0	6.6
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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REPORT NUMBER: P322727
CATALOG NUMBER: GLEON-SA3C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5	2096.5
2.5°	2101.2	2098.2	2098.8	2083.3	2073.2	2052.9	2032.1	2022.5	2012.4	2008.2	2012.4
5°	2112.0	2106.6	2091.1	2043.4	1992.7	1927.1	1865.7	1819.2	1760.8	1744.7	1761.4
7.5°	2128.7	2117.9	2072.6	1975.4	1862.7	1737.5	1596.8	1494.2	1410.2	1355.9	1375.6
10°	2153.1	2132.8	2041.6	1876.4	1674.9	1453.1	1253.3	1097.7	987.4	942.1	940.3
12.5°	2194.2	2156.1	2003.4	1747.6	1445.3	1149.6	887.8	719.1	629.7	571.8	570.6
15°	2239.6	2183.5	1955.1	1593.2	1178.2	823.4	571.8	443.6	385.8	367.3	364.9
17.5°	2295.0	2215.1	1892.5	1403.0	898.6	545.6	373.3	336.3	333.9	332.1	332.1
20°	2364.8	2252.7	1812.0	1185.4	637.4	364.3	317.2	319.6	320.8	318.4	319.0
22.5°	2445.9	2290.8	1716.0	951.6	431.1	304.7	303.5	306.5	307.7	306.5	307.1
25°	2540.1	2335.0	1599.2	706.6	311.2	289.2	292.2	296.3	299.3	299.3	299.3
27.5°	2656.9	2388.6	1458.5	493.1	268.9	273.1	281.4	289.2	293.4	294.6	294.6
30°	2809.0	2455.4	1289.7	338.1	244.5	251.6	267.1	282.0	289.8	291.0	291.6
32.5°	3001.0	2530.5	1094.1	249.8	223.6	229.0	245.7	270.7	285.6	288.0	288.0
35°	3221.0	2617.6	883.7	217.6	208.7	210.5	223.6	252.2	278.5	285.0	285.6
37.5°	3461.9	2703.4	672.0	203.3	196.2	196.2	205.7	230.2	261.2	281.4	283.8
40°	3686.7	2755.3	471.0	192.0	184.8	184.8	193.2	211.1	240.3	270.7	277.3
42.5°	3894.2	2773.2	327.9	181.3	174.1	175.9	183.1	197.4	219.4	249.8	255.8
45°	4107.6	2770.2	239.1	168.7	163.4	168.7	174.1	184.8	200.9	218.2	219.4
47.5°	4268.6	2745.2	189.6	156.8	153.2	160.4	165.2	172.3	181.3	180.1	180.1
50°	4419.5	2684.4	152.6	140.7	143.1	151.5	153.8	156.2	156.8	145.5	144.3
52.5°	4534.0	2589.6	122.2	123.4	133.0	141.3	138.9	135.4	129.4	115.7	113.3
55°	4572.1	2407.1	96.0	102.0	118.1	128.8	119.8	112.1	100.8	89.4	87.1
57.5°	4503.0	2171.6	78.1	79.3	99.6	108.5	98.4	89.4	76.9	67.4	65.6
60°	4356.3	1909.8	64.4	59.6	76.9	84.7	78.1	69.2	57.8	50.7	50.1
62.5°	4065.3	1630.8	53.1	46.5	58.4	65.0	60.8	54.3	44.7	39.9	39.4
65°	3453.5	1304.6	42.9	37.6	45.3	50.7	47.1	42.3	35.2	31.6	31.0
67.5°	2410.7	881.9	35.2	31.0	35.8	39.9	37.0	34.6	28.0	27.4	28.0
70°	1162.7	425.1	29.2	25.0	28.0	31.0	29.8	28.0	26.8	31.0	35.8
72.5°	333.3	142.5	23.3	20.9	22.7	24.4	25.6	25.0	29.2	37.6	43.5
73°	*256.4*	*115.1*	*22.1*	*19.7*	*21.5*	*23.9*	*25.0*	*24.4*	*29.8*	*38.2*	*43.5*
75°	109.7	55.5	16.7	16.1	17.9	20.9	22.1	22.1	29.8	38.8	41.7
77.5°	49.5	29.8	10.7	12.5	15.5	16.7	18.5	18.5	23.9	29.8	29.8
80°	28.0	16.1	8.3	9.5	11.3	11.3	11.3	10.1	10.7	11.9	13.1
82.5°	17.9	10.7	6.6	7.8	7.2	6.0	4.8	4.8	4.2	4.8	6.0
85°	10.1	6.0	6.0	4.8	3.0	2.4	3.0	2.4	0.6	0.0	0.6
87.5°	6.0	3.6	1.8	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

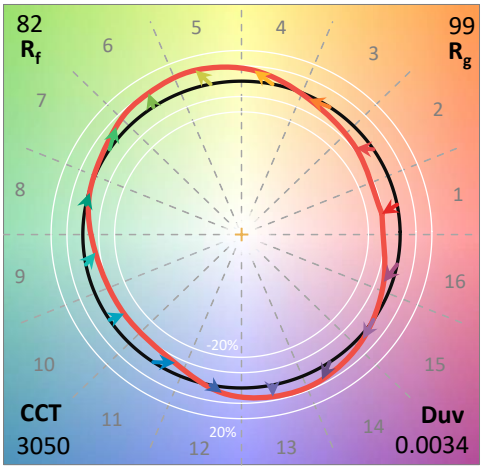
Test Information

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

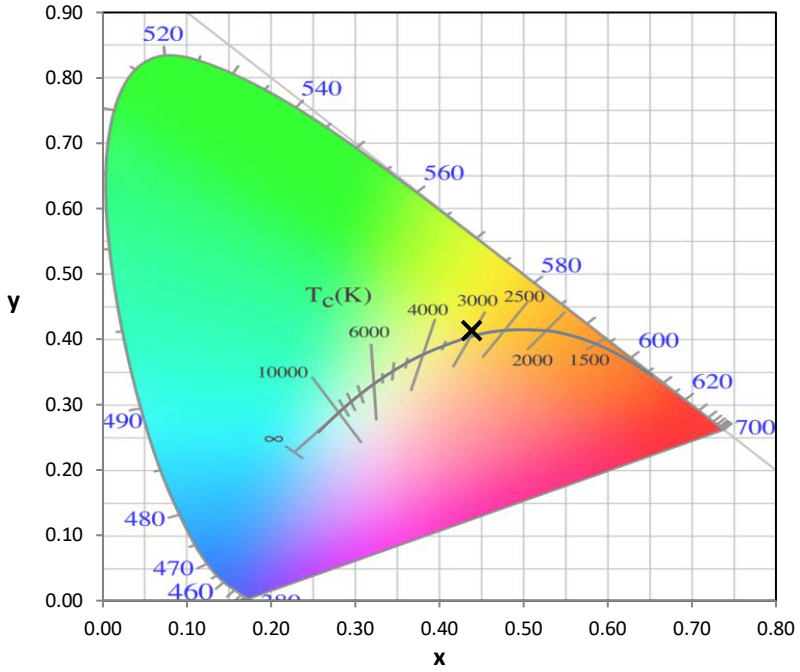
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

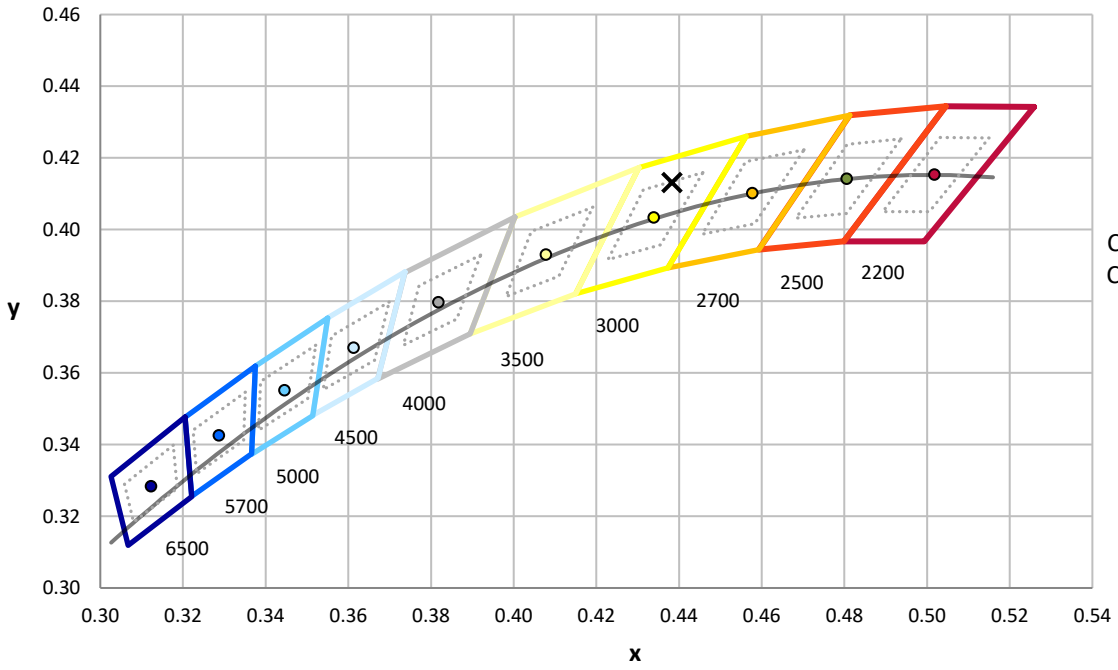
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

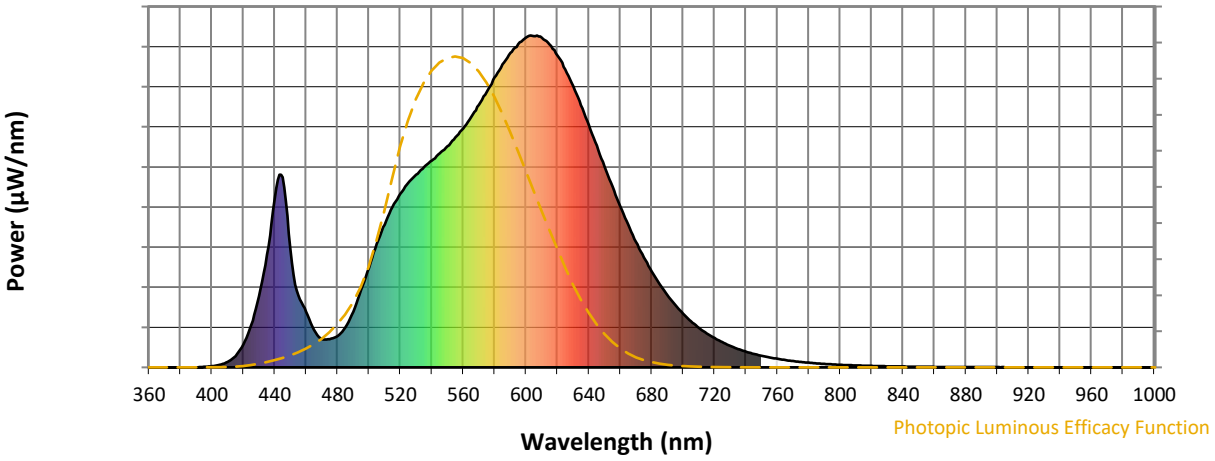


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

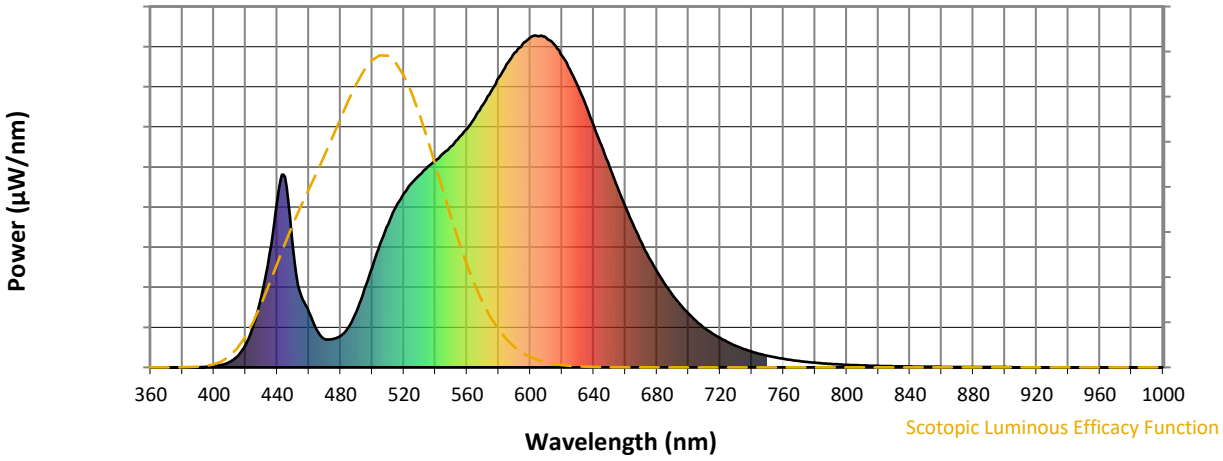


Photopic Lumens: NR

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

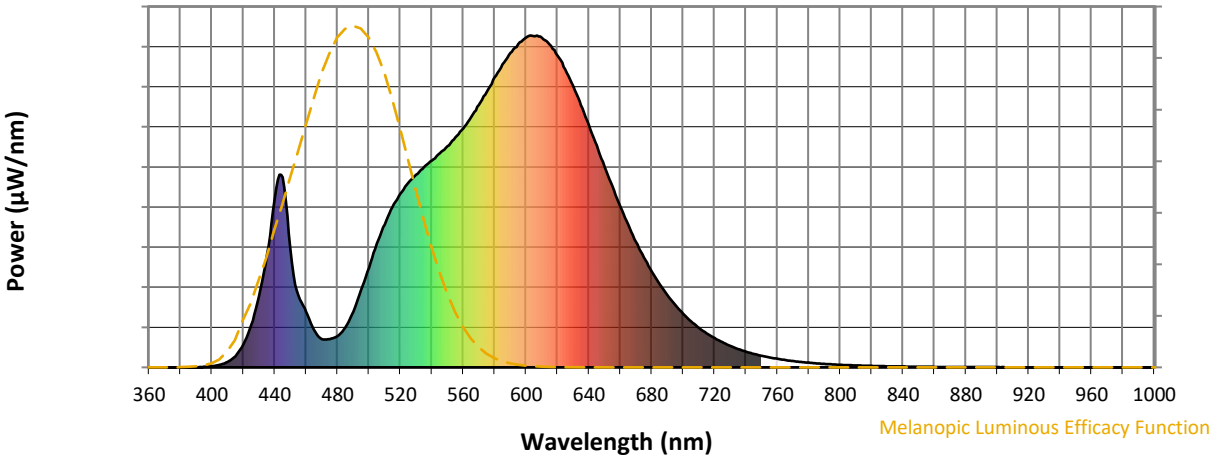


Scotopic Lumens: NR **S/P: 1.27**

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			

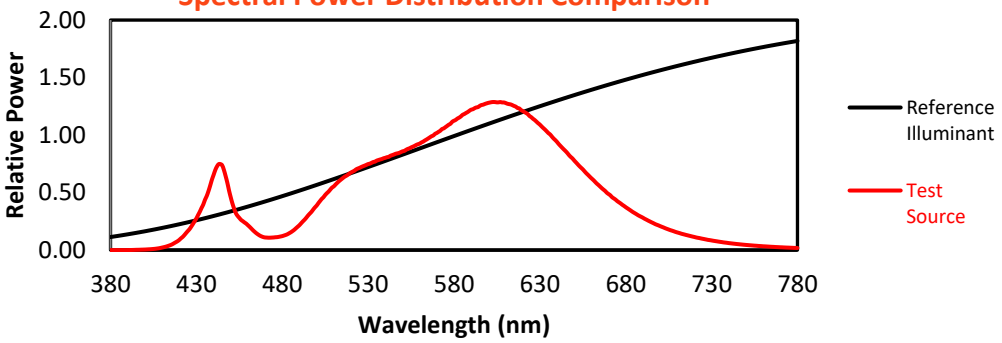
REPORT NUMBER: SP1-2408-195-9

TM-30-18

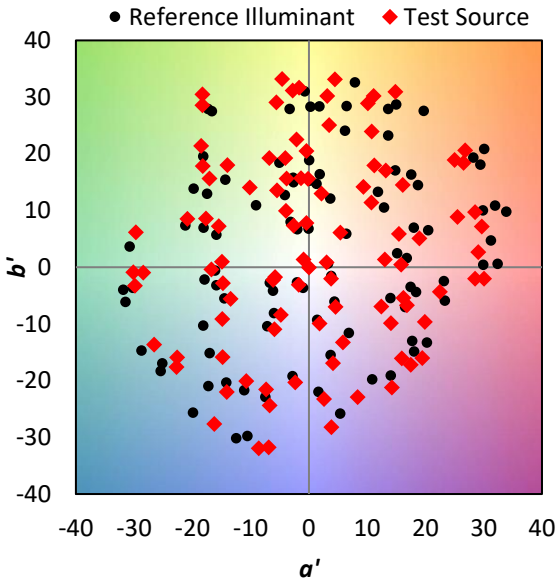
Summary

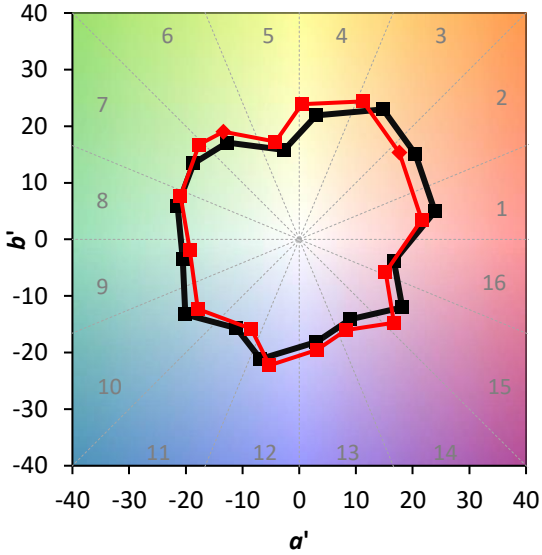
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

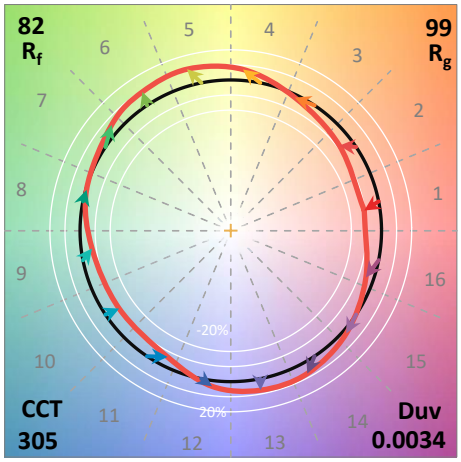
Spectral Power Distribution Comparison

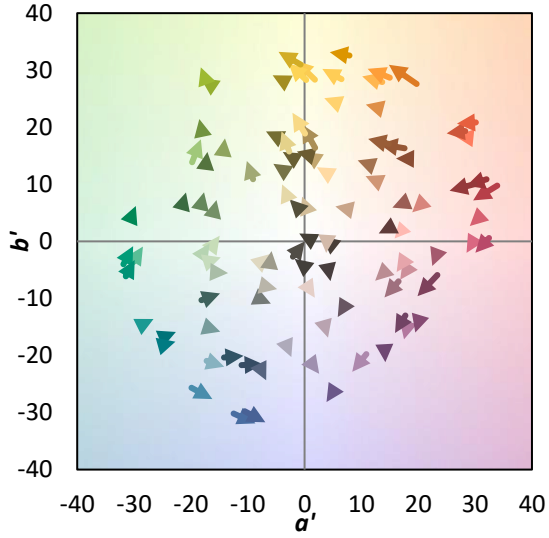


Color Vector Graphics







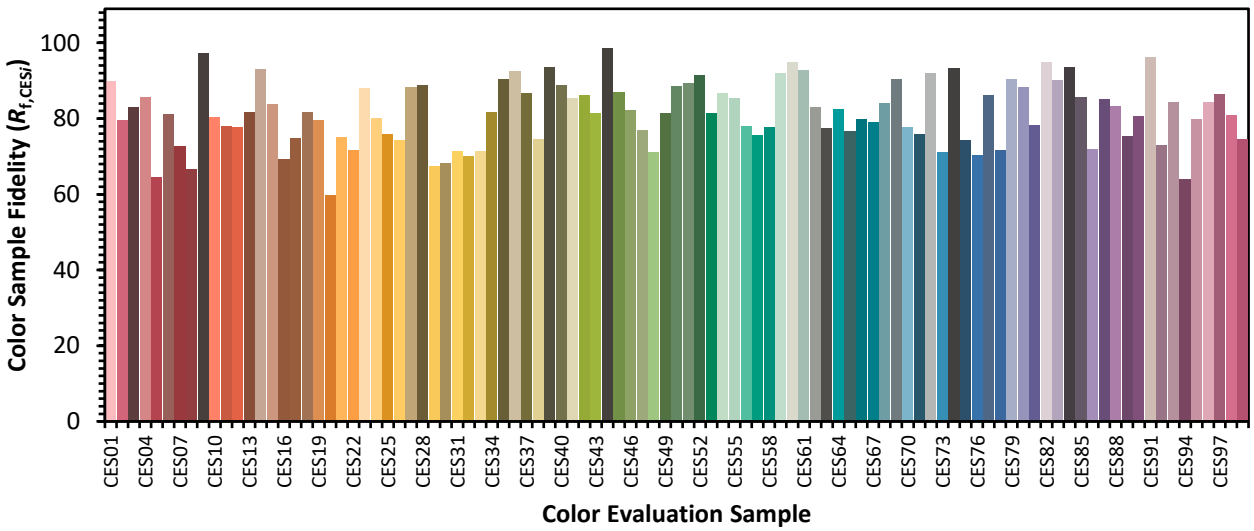


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

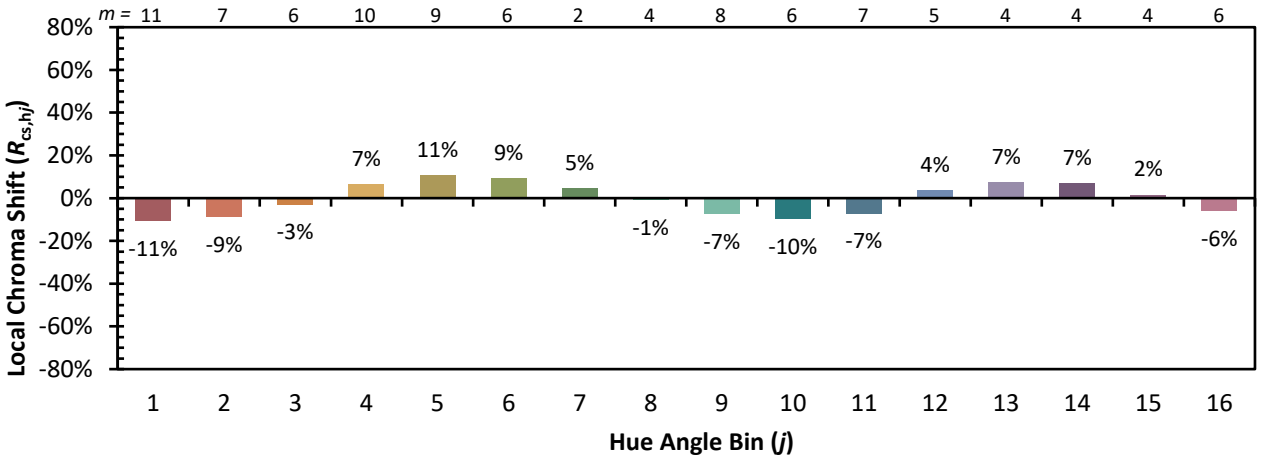
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

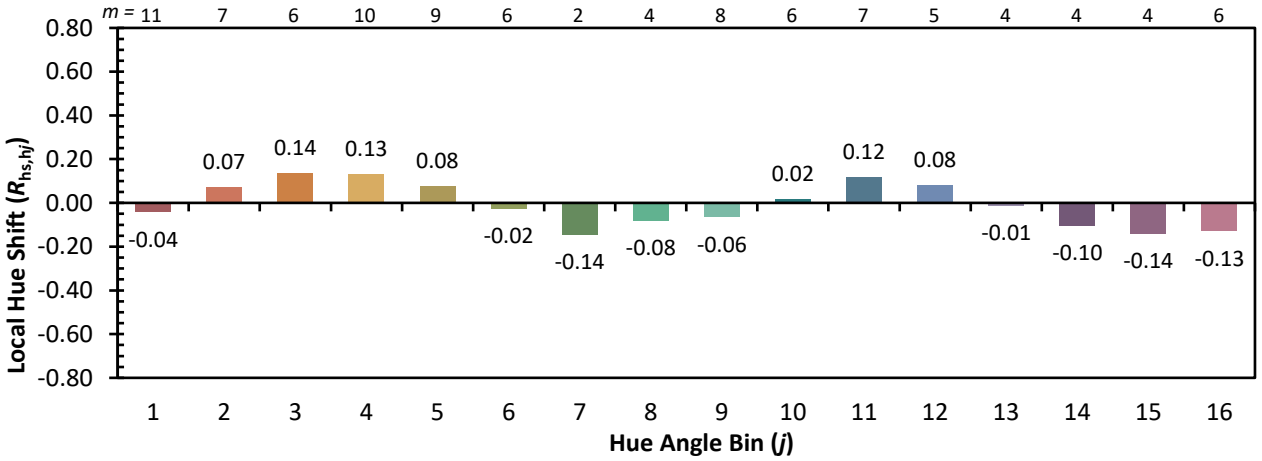


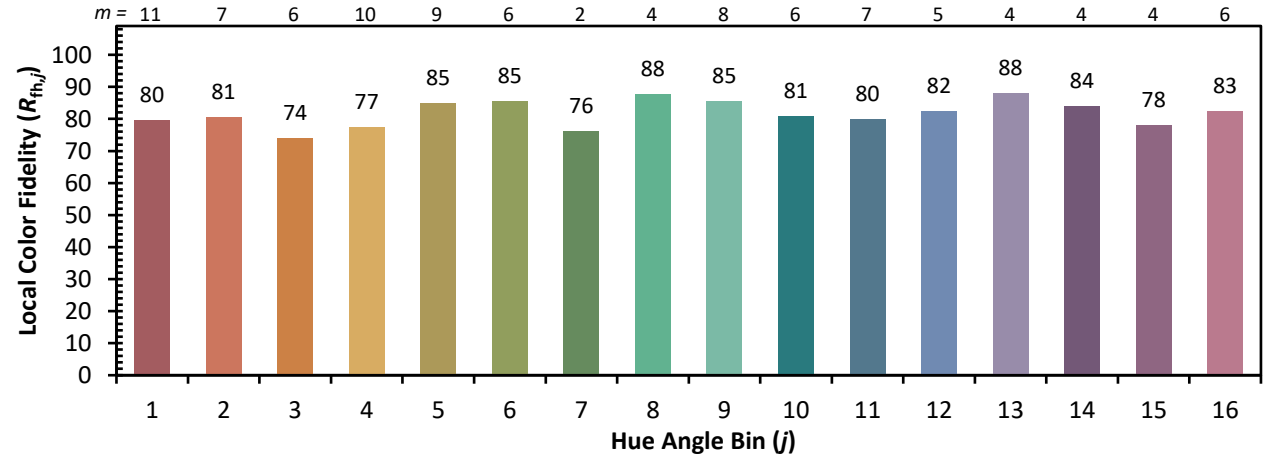
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



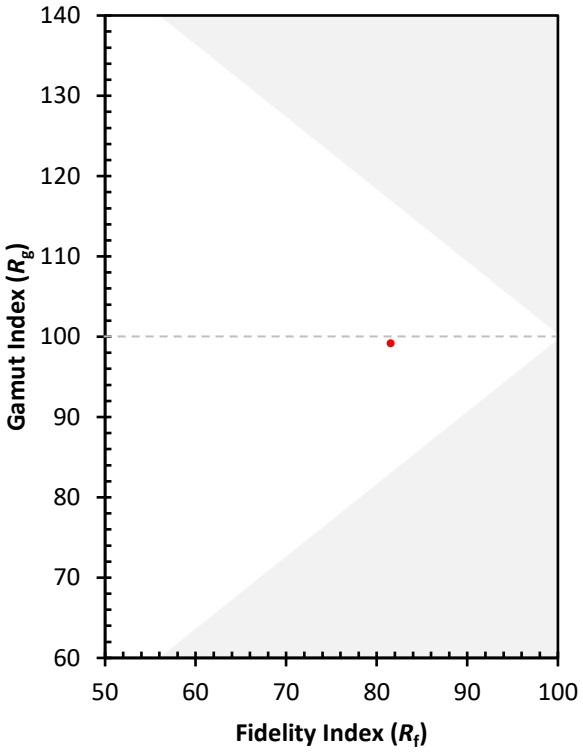


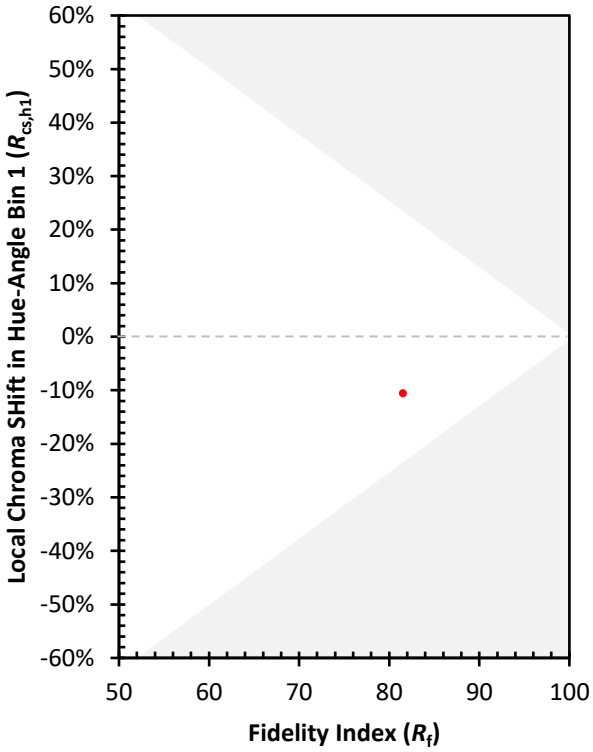


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)