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: P386058

Luminaire Tested: **GPC-SA1C-830-U-T2-HSS**

Issue Date: 3/3/2020

Report Generated By 670245982

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:	P386058
	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:	GPC-SA1C-830-U-T2-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4270 lumens
Efficiency:	N/A
Efficacy:	73.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B0 - U0 - G1

Input Watts (W):	58
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:	28.75 FT

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REPORT NUMBER: P386058
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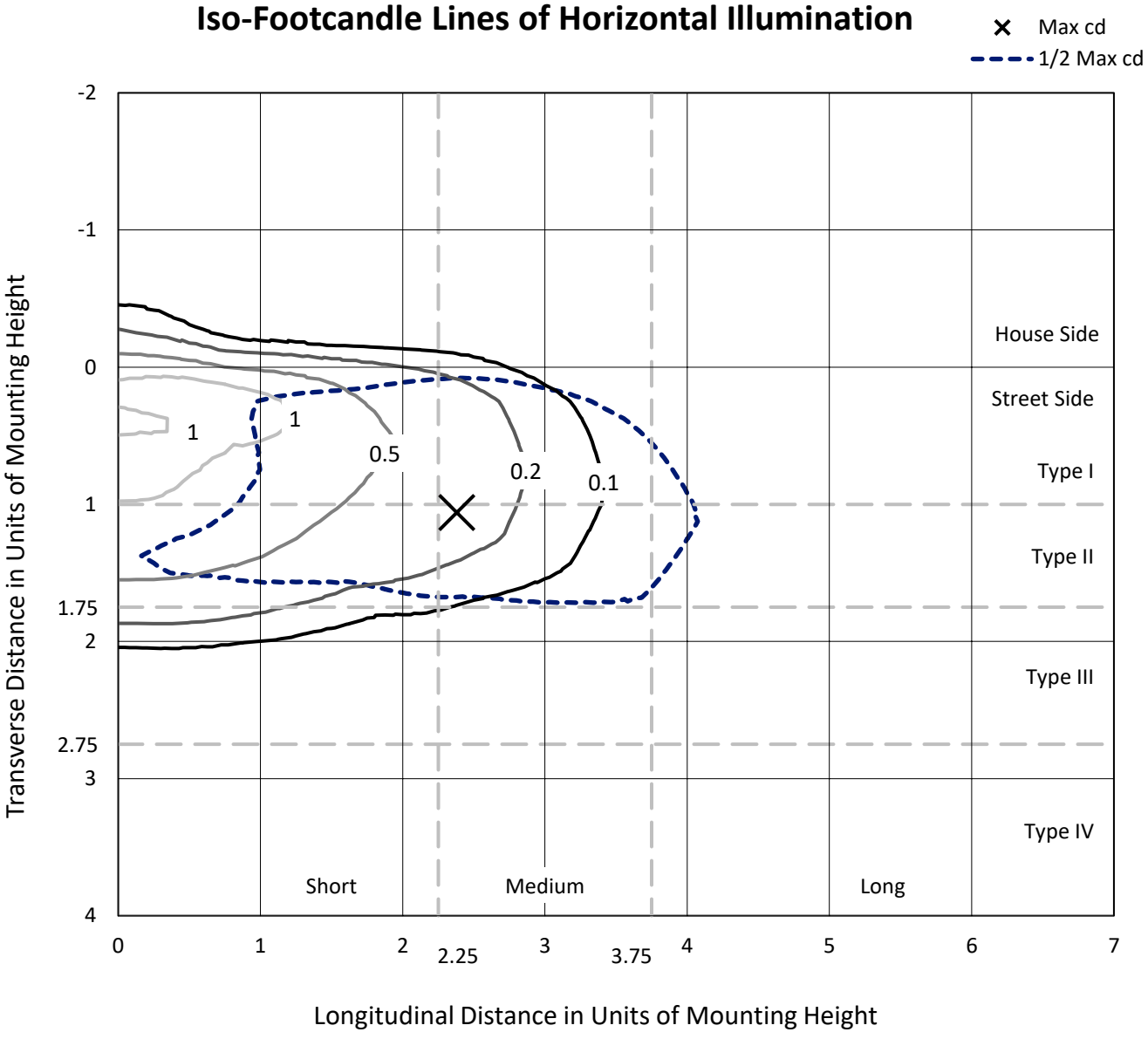
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Medium - N/A

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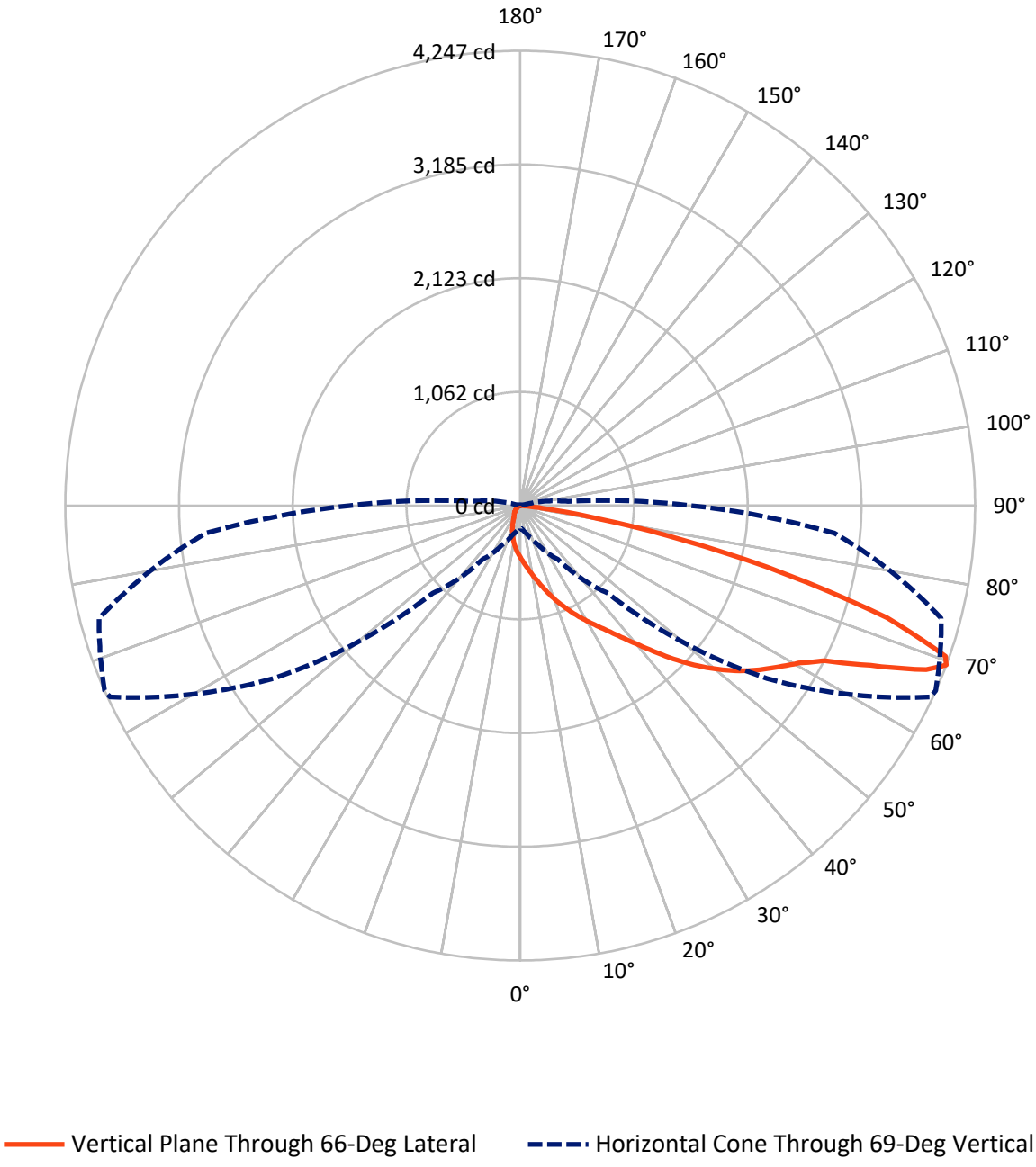
Luminous Intensity Polar Plot



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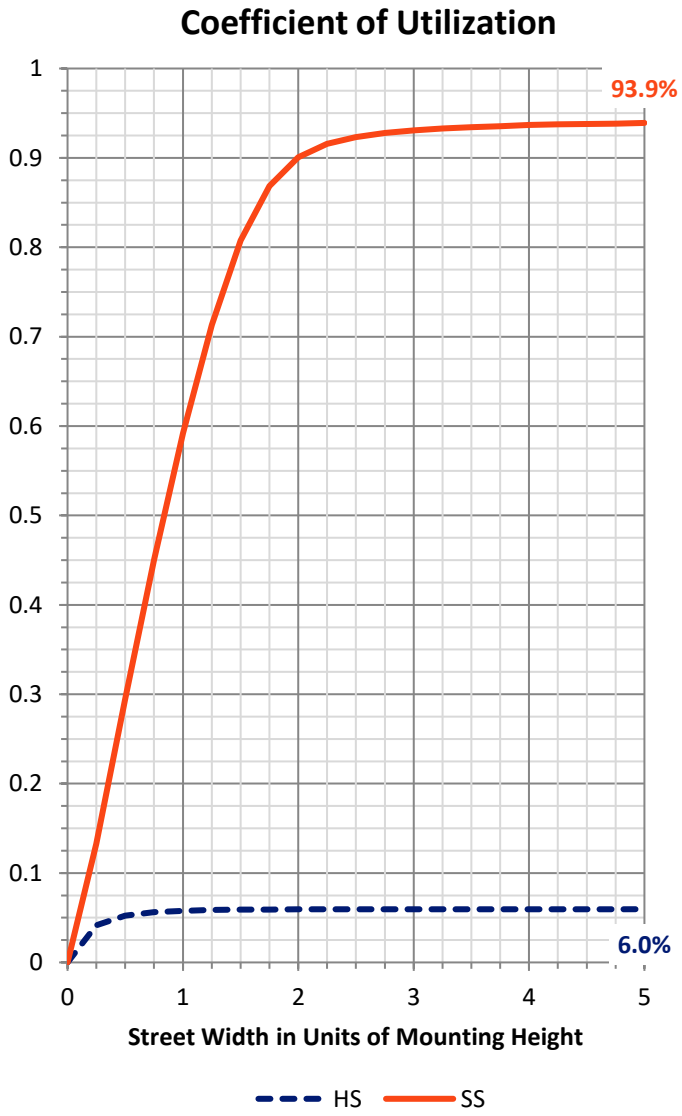
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.1	0.0	256.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4013.9	0.0	4013.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	4270.0	0.0	4270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.1
10°-20°	139.8	3.3
20°-30°	243.4	5.7
30°-40°	427.1	10.0
40°-50°	714.9	16.7
50°-60°	1050.9	24.6
60°-70°	1079.0	25.3
70°-80°	532.7	12.5
80°-90°	35.2	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°	4270.0	100.0
0°-180°	4270.0	100.0



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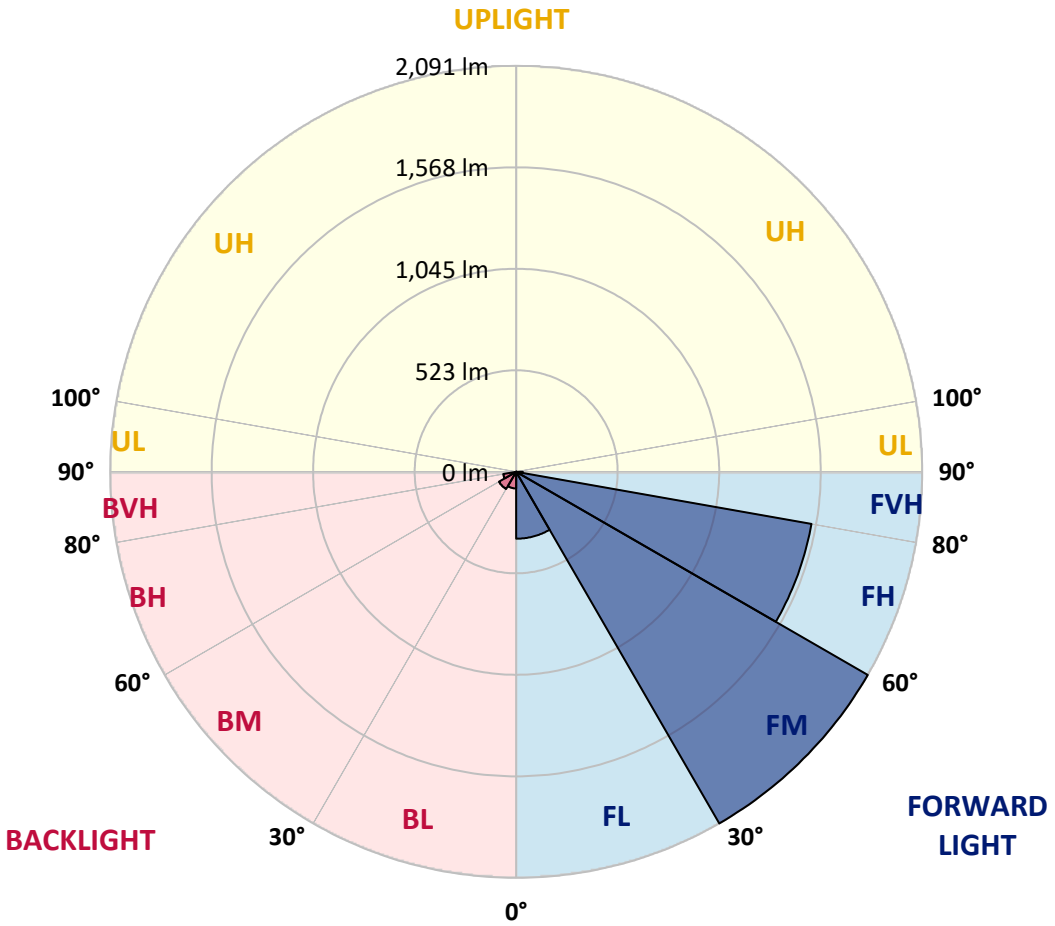
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	344.5	8.1			
FM	(30°-60°)	2090.8	49.0			
FH	(60°-80°)	1544.1	36.2			G1/1800
FVH	(80°-90°)	34.4	0.8			G1/100
BL	(0°-30°)	85.7	2.0	B0/110		
BM	(30°-60°)	102.1	2.4	B0/220		
BH	(60°-80°)	67.5	1.6	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type II Medium



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REPORT NUMBER: P386058
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	*485.9*	485.9	485.9
2.5°	571.9	569.5	568.5	564.0	556.3	550.4	539.1	525.9	*523.5*	510.7	495.1
5°	646.2	644.1	642.7	636.4	628.5	613.7	593.0	568.5	*563.8*	539.5	508.2
7.5°	697.9	701.5	701.5	697.5	687.5	676.4	651.0	617.6	*611.7*	574.4	525.9
10°	728.1	732.6	736.0	739.5	738.0	733.6	709.6	671.9	*664.8*	615.3	546.4
12.5°	730.9	735.4	745.1	759.5	773.5	783.7	768.7	732.2	*724.0*	662.8	570.7
15°	715.1	719.8	734.8	762.8	796.6	826.3	831.1	798.9	*790.6*	719.4	601.1
17.5°	687.5	690.6	712.1	750.8	804.0	858.3	887.7	870.5	*862.8*	784.1	635.0
20°	667.1	669.3	688.1	729.7	799.5	878.4	941.3	946.5	*938.4*	853.4	671.7
22.5°	702.1	706.2	706.8	726.5	787.3	888.3	988.3	1021.4	*1015.3*	927.1	707.8
25°	798.1	802.7	787.3	775.2	797.7	892.8	1028.7	1098.0	*1093.2*	1006.4	744.1
27.5°	924.8	929.7	909.8	873.5	851.8	909.6	1064.6	1175.9	*1175.7*	1090.3	783.3
30°	1049.4	1054.2	1033.9	997.6	947.7	957.3	1095.6	1257.4	*1258.7*	1176.9	824.8
32.5°	1180.0	1186.0	1165.2	1118.5	1066.4	1039.6	1139.2	1339.4	*1346.3*	1277.3	871.7
35°	1328.4	1329.2	1299.8	1250.9	1190.9	1149.7	1209.2	1431.3	*1447.7*	1401.6	931.1
37.5°	1474.0	1479.9	1455.8	1378.7	1323.6	1276.9	1313.2	1546.0	*1569.4*	1553.5	1008.8
40°	1581.9	1594.3	1590.9	1507.7	1455.4	1422.1	1442.4	1682.5	*1712.1*	1730.4	1106.7
42.5°	1649.7	1659.0	1674.8	1624.7	1577.3	1582.8	1594.9	1841.5	*1878.0*	1932.0	1219.3
45°	1727.4	1731.8	1745.0	1722.9	1690.9	1746.0	1756.8	2020.6	*2059.0*	2148.8	1344.2
47.5°	1822.3	1832.8	1836.5	1816.2	1801.6	1890.4	1912.7	2183.5	*2237.2*	2381.0	1476.5
50°	1943.2	1946.0	1952.3	1939.1	1924.5	2014.5	2052.7	2354.5	*2403.3*	2614.1	1606.9
52.5°	2061.4	2071.5	2093.4	2085.1	2079.2	2120.2	2177.4	2508.6	*2563.1*	2808.4	1737.1
55°	2095.5	2104.2	2179.8	2231.6	2279.4	2250.4	2296.7	2646.7	*2705.7*	2982.0	1862.4
57.5°	1959.4	1977.0	2108.0	2242.7	2441.3	2452.8	2460.5	2788.5	*2841.4*	3115.0	1992.8
60°	1615.4	1618.9	1833.8	2064.8	2414.5	2629.5	2699.8	2940.8	*2985.2*	3238.9	2149.0
62.5°	1027.5	1062.5	1298.4	1624.5	2131.4	2603.9	2989.3	3171.2	*3187.4*	3387.6	2372.9
65°	489.4	512.1	682.1	1003.7	1543.8	2276.8	3189.0	3588.0	*3595.3*	3682.3	2672.1
67.5°	271.0	281.9	362.8	540.3	902.5	1610.1	3108.3	4081.6	*4088.5*	3983.2	2934.5
69°	*211.9*	*221.3*	*285.0*	*407.2*	*611.9*	*1157.3*	*2812.8*	*4226.2*	*4246.7*	*4069.4*	*2943.8*
70°	179.9	189.0	245.4	344.0	492.0	894.2	2503.7	4190.3	*4212.0*	4061.3	2874.3
72.5°	110.1	115.4	163.5	242.2	329.8	449.8	1544.0	3543.7	*3580.5*	3725.5	2470.3
75°	74.2	77.1	102.2	167.1	235.9	231.6	802.1	2497.8	*2577.3*	2898.0	1824.5
77.5°	53.1	55.8	68.6	108.1	165.3	152.9	363.2	1552.3	*1569.4*	1738.1	995.0
80°	30.2	32.7	48.5	64.3	112.2	102.0	144.4	741.5	*750.0*	745.3	332.2
82.5°	15.8	17.8	26.6	42.4	72.0	66.7	60.0	248.2	*249.5*	207.5	72.8
85°	3.0	3.7	13.2	29.0	37.1	29.0	24.5	58.2	*59.4*	52.5	18.1
87.5°	0.0	0.2	5.3	6.5	7.3	7.5	7.9	11.4	*12.2*	16.4	4.9
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: P386058
CATALOG NUMBER: GPC-SA1C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9
2.5°	488.2	480.9	466.9	450.7	438.1	425.7	416.0	405.8	402.2	400.4	400.1
5°	493.0	477.6	448.0	417.6	392.6	369.1	352.3	336.3	328.8	325.3	323.9
7.5°	501.2	476.4	428.7	382.3	346.4	317.0	293.7	276.2	267.5	263.9	262.4
10°	510.7	474.8	406.2	345.0	299.1	268.7	245.6	228.4	218.8	214.8	212.8
12.5°	521.8	471.9	380.3	307.3	258.8	228.4	200.4	179.1	168.1	163.5	161.2
15°	535.6	469.1	353.1	271.8	223.3	186.2	155.6	141.2	138.9	138.1	138.3
17.5°	549.2	464.6	323.5	236.7	186.0	145.4	129.8	129.0	129.4	129.4	129.4
20°	561.4	454.5	291.2	206.7	150.5	122.7	119.5	118.0	117.0	116.2	115.2
22.5°	570.9	440.9	260.2	176.9	122.9	112.4	107.3	102.8	99.2	96.7	95.5
25°	577.4	422.9	231.8	148.3	110.5	102.2	93.1	85.6	79.9	76.5	75.0
27.5°	582.3	403.4	206.5	124.1	102.0	90.5	78.5	69.6	63.7	60.6	59.4
30°	585.7	381.3	184.2	109.1	92.5	78.1	65.3	56.6	52.3	50.7	49.9
32.5°	589.0	356.7	163.1	102.0	83.6	66.7	54.8	48.1	45.4	43.4	42.8
35°	597.1	334.0	143.0	94.5	74.4	57.0	47.1	42.2	39.5	38.3	37.9
37.5°	616.3	317.2	123.7	86.8	65.3	49.3	41.2	37.7	35.3	34.1	33.7
40°	647.4	308.7	107.5	78.5	56.4	43.4	37.3	34.1	31.4	29.6	29.2
42.5°	693.0	309.9	96.1	70.2	49.3	38.7	33.7	29.8	27.0	25.4	24.9
45°	748.4	318.8	88.2	62.1	43.4	35.1	29.6	25.6	22.9	21.5	21.1
47.5°	808.4	333.2	81.7	54.8	38.7	31.6	25.6	21.3	19.1	17.8	17.6
50°	871.7	347.2	75.0	47.7	34.7	28.2	21.5	17.6	15.8	14.8	14.4
52.5°	935.8	363.4	69.0	41.2	31.2	24.1	17.8	14.4	13.0	12.2	11.8
55°	1004.7	375.6	63.1	36.1	27.8	20.5	14.8	12.0	10.7	9.7	9.5
57.5°	1085.9	394.5	57.0	31.2	23.7	17.0	12.2	9.5	8.5	7.5	7.3
60°	1195.4	416.6	50.5	27.6	19.5	14.0	9.9	7.7	6.5	5.7	5.5
62.5°	1339.8	441.1	42.4	24.1	15.8	11.4	7.9	6.1	4.7	3.7	3.7
65°	1522.9	481.1	34.7	20.3	13.0	9.3	6.1	4.5	2.6	1.6	1.6
67.5°	1629.8	488.0	28.0	16.6	10.5	7.9	5.1	3.0	0.8	0.2	0.0
69°	*1595.5*	*448.0*	*23.7*	*14.2*	*9.1*	*7.5*	*4.7*	*2.2*	*0.4*	*0.0*	*0.0*
70°	1531.0	409.7	20.9	12.6	8.3	7.1	4.5	1.6	0.4	0.0	0.0
72.5°	1265.1	291.6	15.8	9.3	6.1	6.3	4.1	1.0	0.4	0.0	0.0
75°	921.6	177.3	11.4	6.5	3.9	4.7	2.8	0.4	0.2	0.0	0.0
77.5°	512.7	83.6	7.1	3.7	2.4	2.8	1.4	0.0	0.0	0.0	0.0
80°	166.5	22.7	3.2	2.0	1.4	1.6	0.6	0.0	0.0	0.0	0.0
82.5°	30.8	6.5	1.8	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.7	2.6	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.8	0.2	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

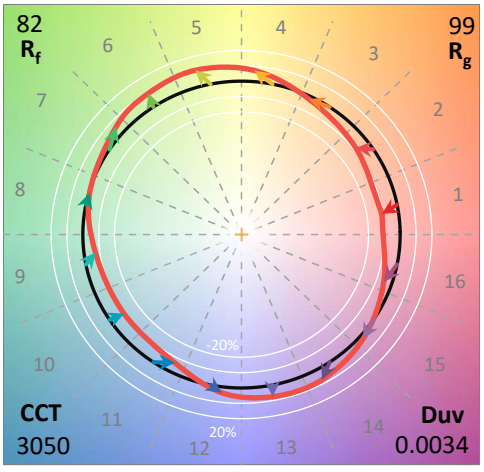
Test Information

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

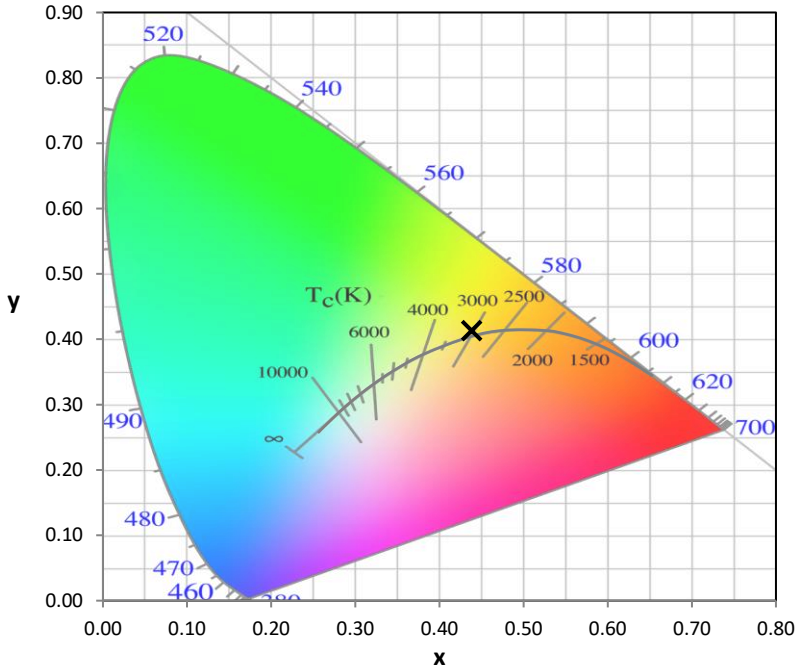
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

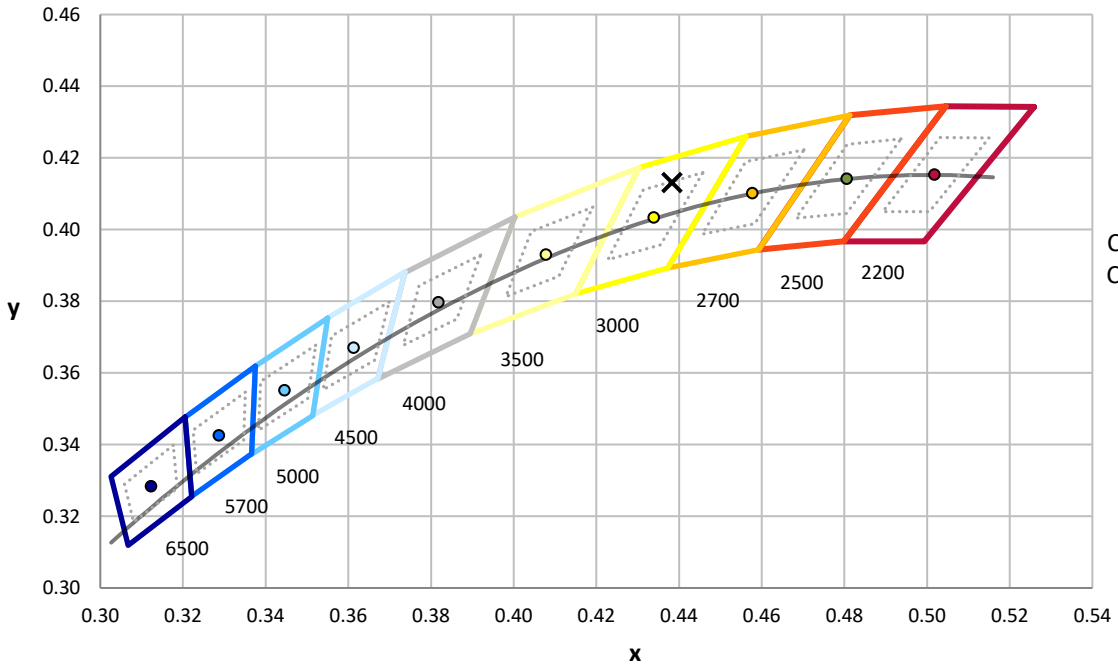
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

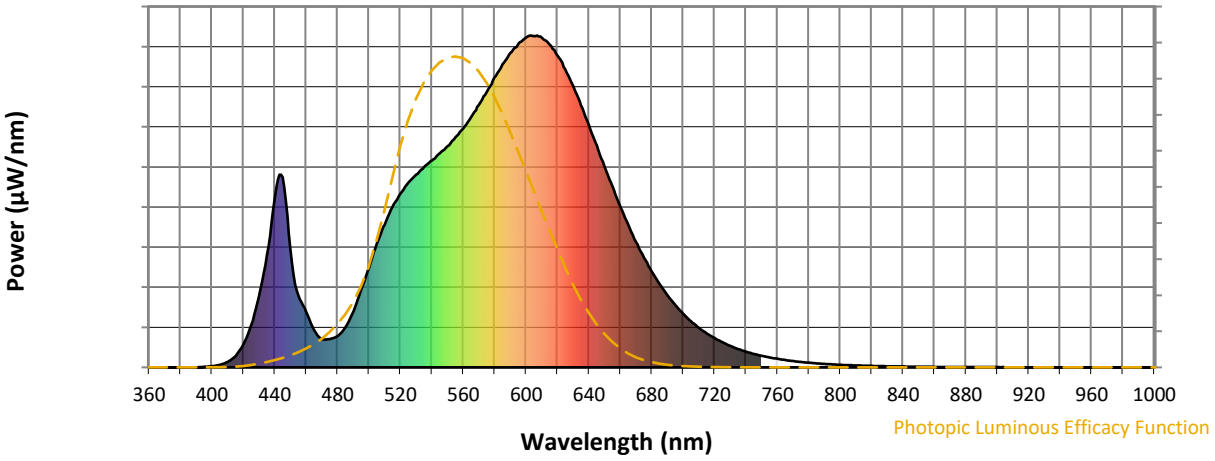


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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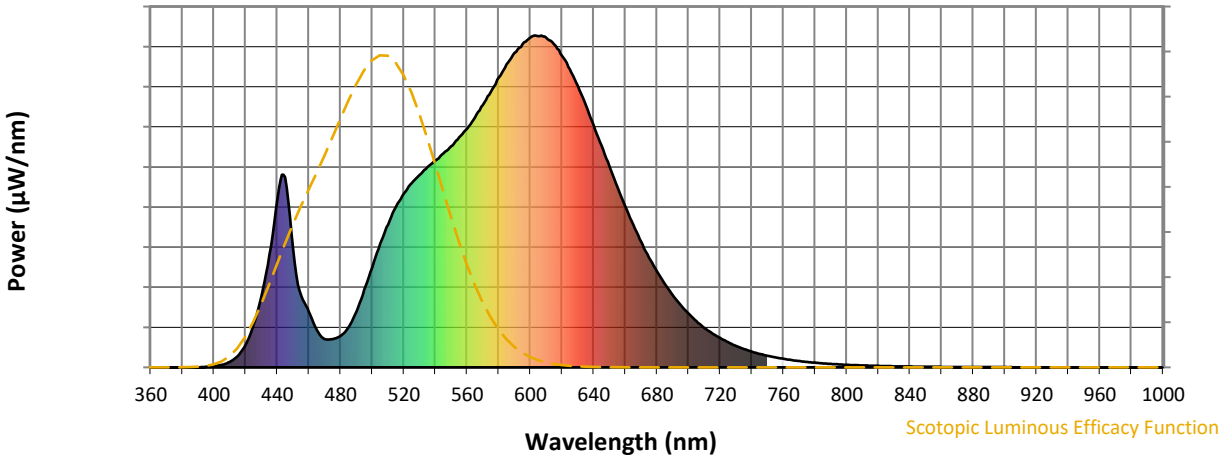
Scotopic Flux vs. Wavelength



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			

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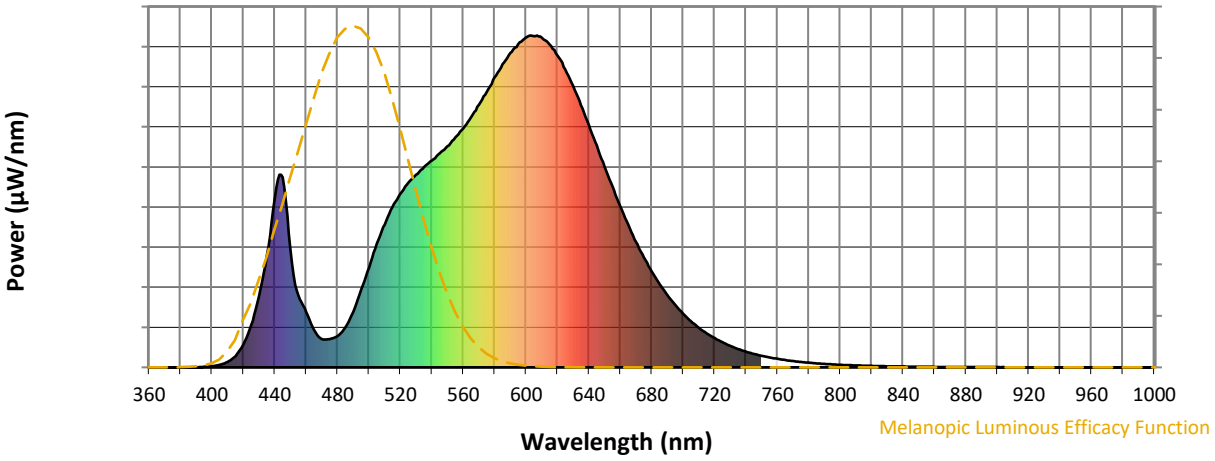
Melanopic Flux vs. Wavelength



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			

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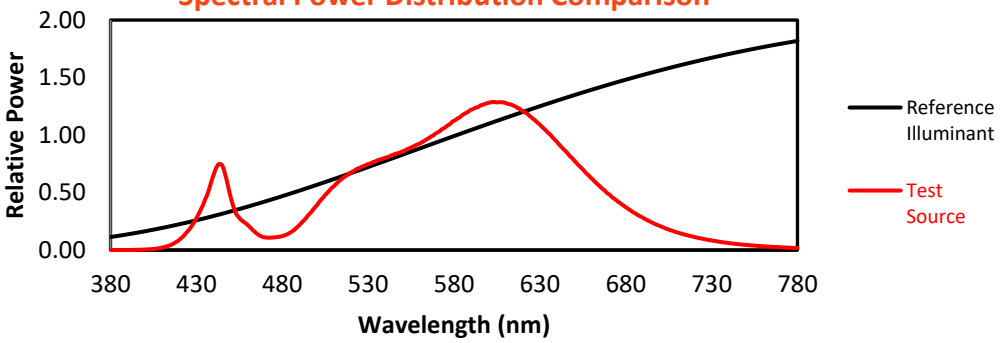
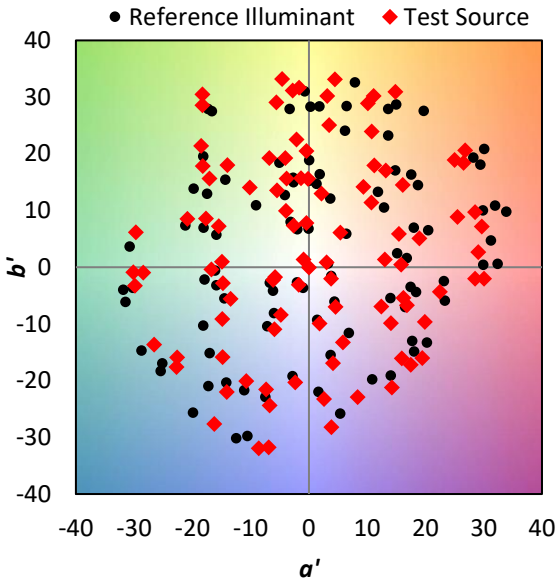
Summary

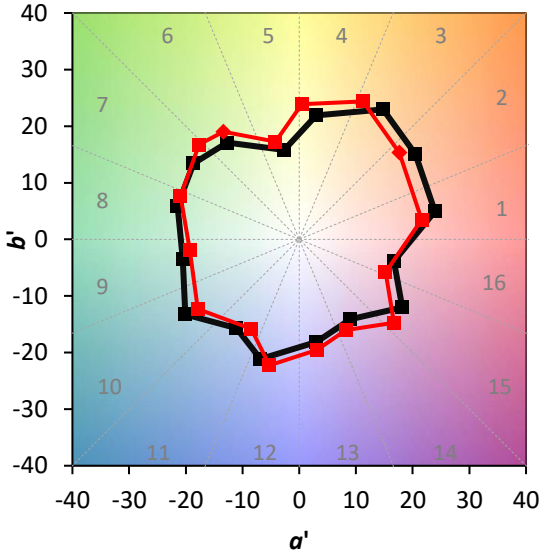
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

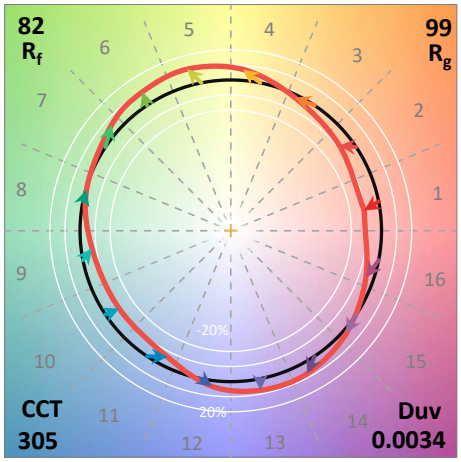
Spectral Power Distribution Comparison

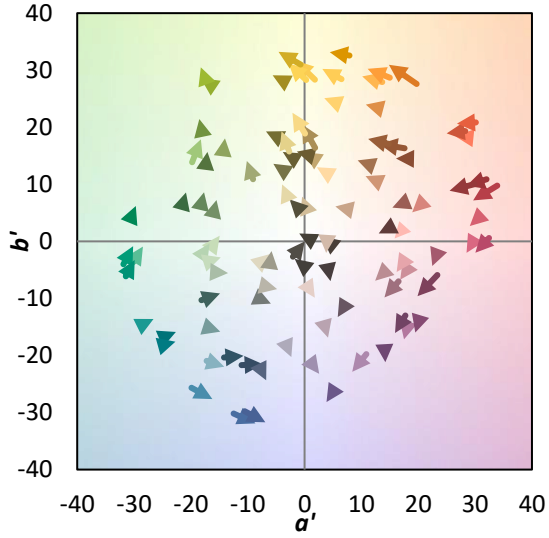


Color Vector Graphics









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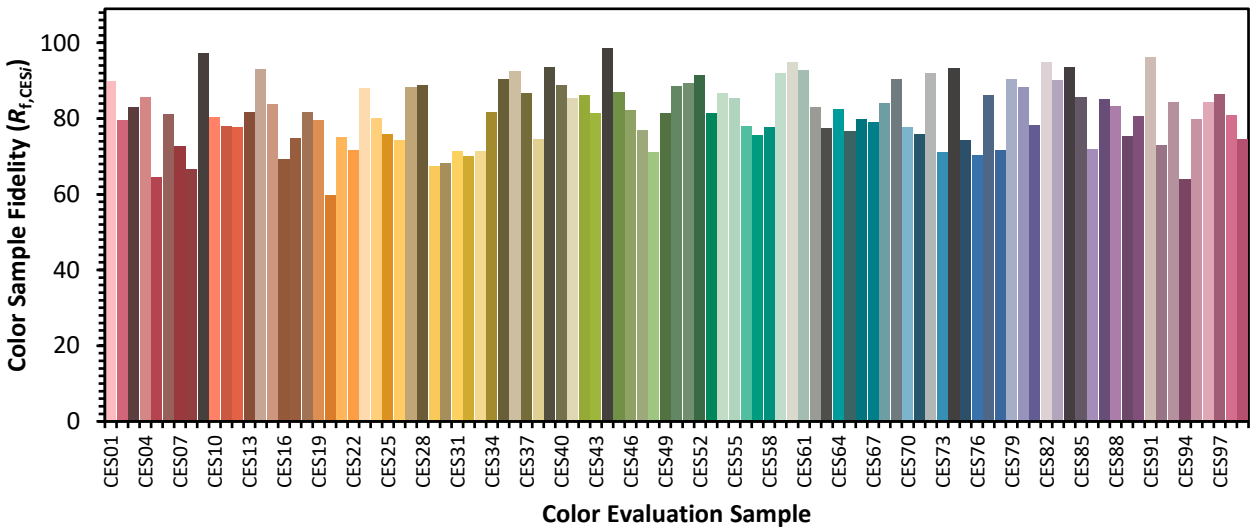
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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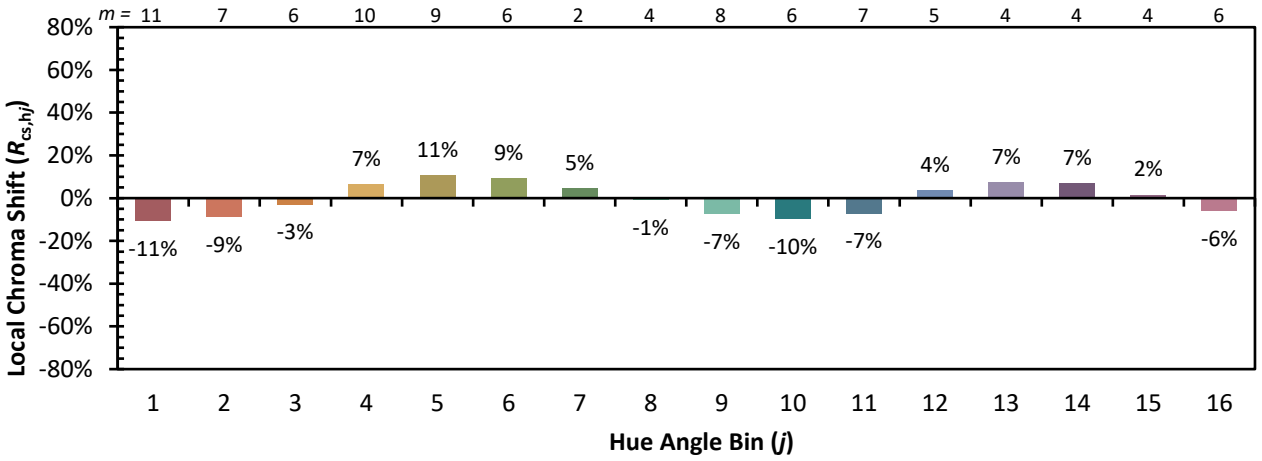
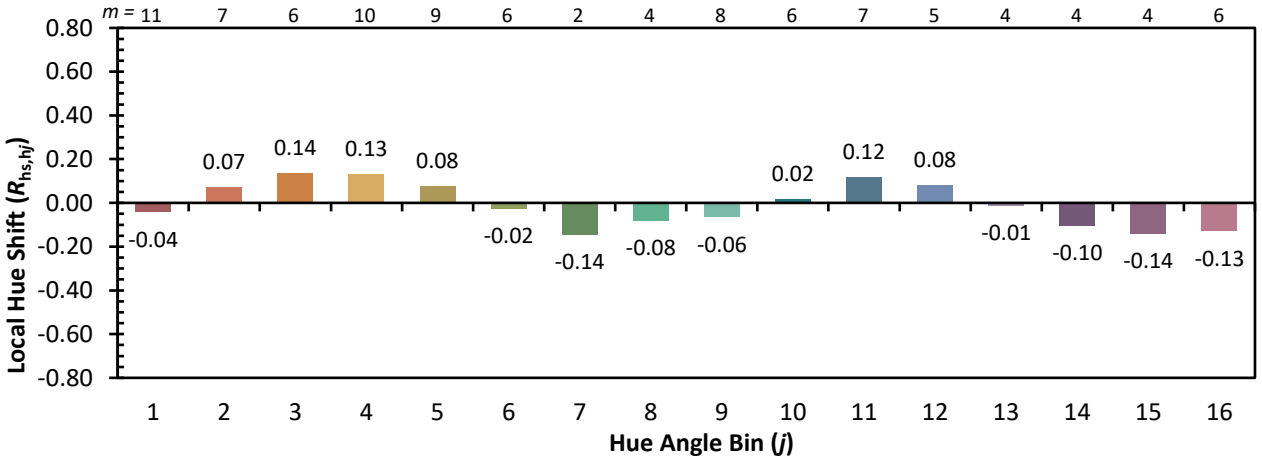
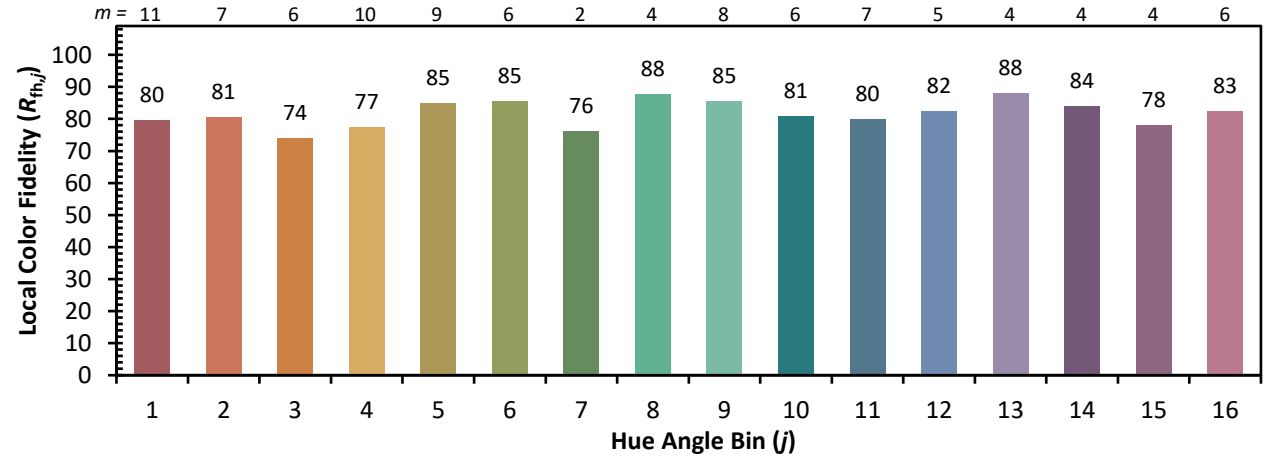
Color Rendition by Hue-Angle Bin







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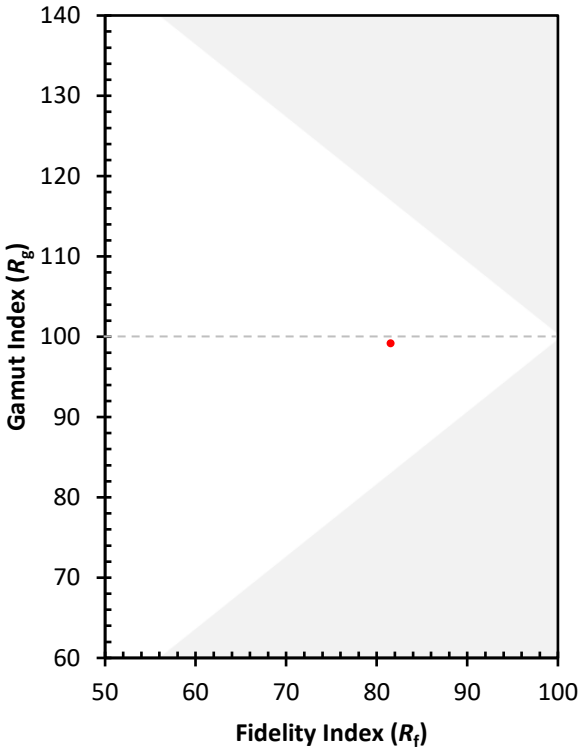
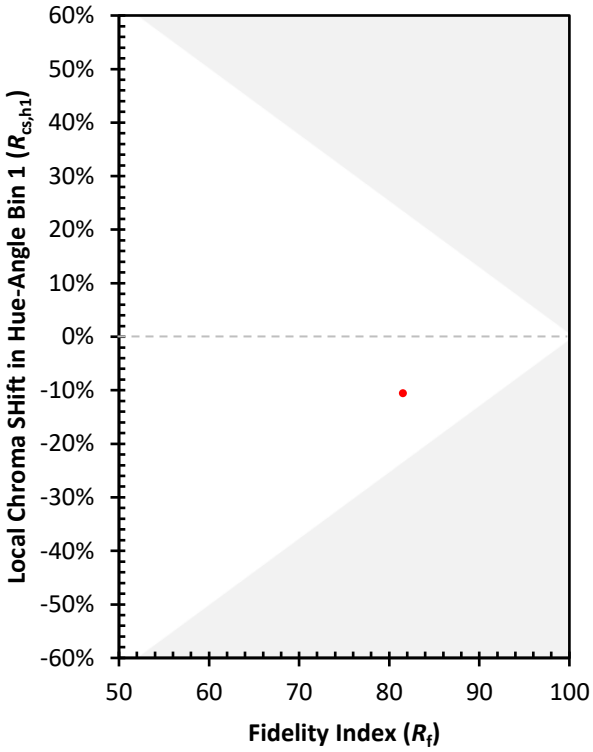
Measure Comparisons





(END OF REPORT)